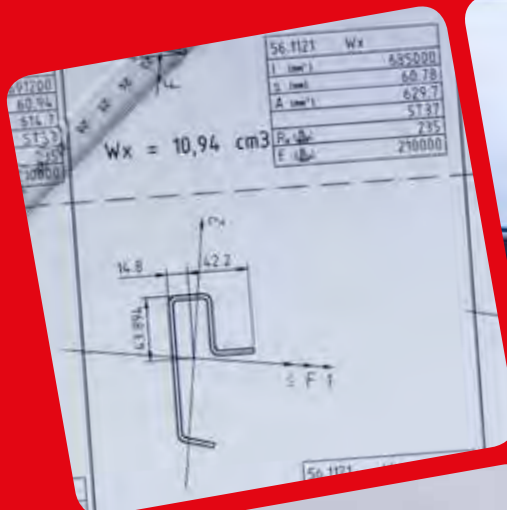


Super

Nutzfahrzeugtechnik

Competence since 1892



Truck Superstructure 2019

Fasteners, hinges, tipping bodies, pillars, ladders, steel side board profiles, steel profiles, bridge fasteners, tarpaulin and cover frame accessories, DIN/ISO and standard parts

For more than a century, the name Suer has been anonymous with progress and innovation in commercial vehicle construction. Founded in the machine tool metropolis of Remscheid, the company is today based in the North Rhine-Westphalian town of Wermelskirchen.

Since the 1950s, the company has also established a presence across Germany and Europe. Presently, in addition to our headquarters in Wermelskirchen, we have branches in Dasing and Leipzig, a sales office in Groß-Kreutz and two branches abroad, in Kościan, Poland and Vilnius, Lithuania.

Establishing new products and product lines on the market has been our speciality since we were founded.



Headquarters
Wermelskirchen



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PILLARS	130
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Truck Superstructure Catalogue
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FASTENERS

The PWP Paco latch fastener [143112767](#) during tensile testing.

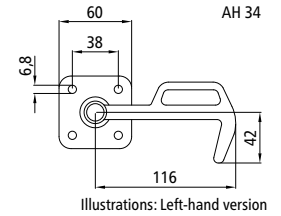


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**Box fastener 256 B/
Size 0**

Zinc plated steel,
weight 0.28 kg.

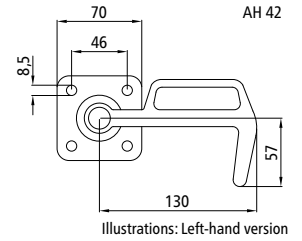
Item number	Version
385101619	left
385101620	right



**Box fastener 256 B/
Size 1**

Zinc plated steel,
weight 0.47 kg.

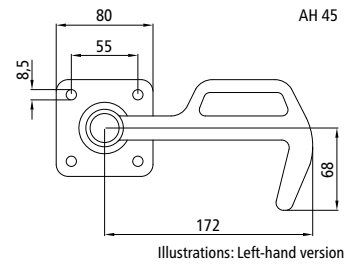
Item number	Version
385101505	left
385101506	right



**Box fastener 256 B/
Size 2**

Zinc plated steel,
weight 0.78 kg.

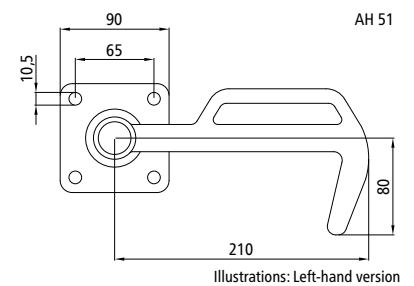
Item number	Version
385101507	left
385101508	right

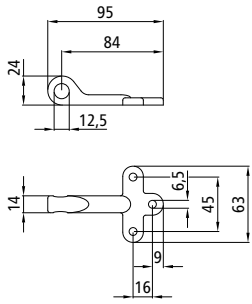


**Box fastener 256 B/
Size 3**

Zinc plated steel,
weight 1.14 kg.

Item number	Version
385101509	left
385101510	right





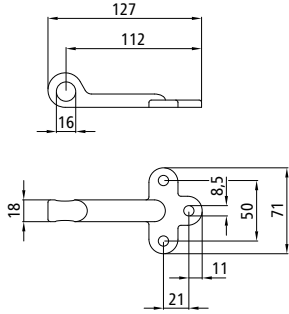
Counterholders 3551 and 3525 also fit sizes 0 and 1, see page 8, however these may need to be adapted to different body heights.



**Counterholder 257 A/
Size 0**

Left = right, weight 0.10 kg.

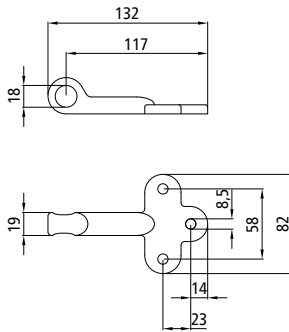
Item number	Version
385101615	Raw steel
385101621	Zinc plated steel



**Counterholder 257 A/
Size 1**

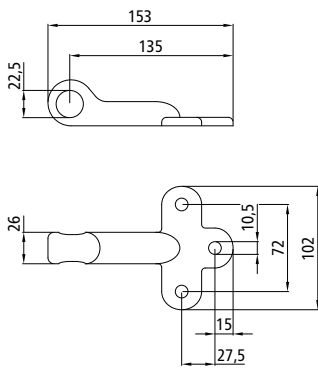
Left = right, weight 0.19 kg.

Item number	Version
103101024	Raw steel
385101511	Zinc plated steel



**Counterholder 257 A/
Size 2**

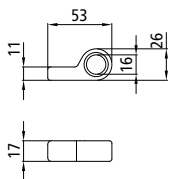
Left = right, zinc plated steel, weight 0.25 kg.
385101512



**Counterholder 257 A/
Size 3**

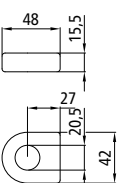
Left = right, weight 0.50 kg.

Item number	Version
385101618	Raw steel
385101513	Zinc plated steel



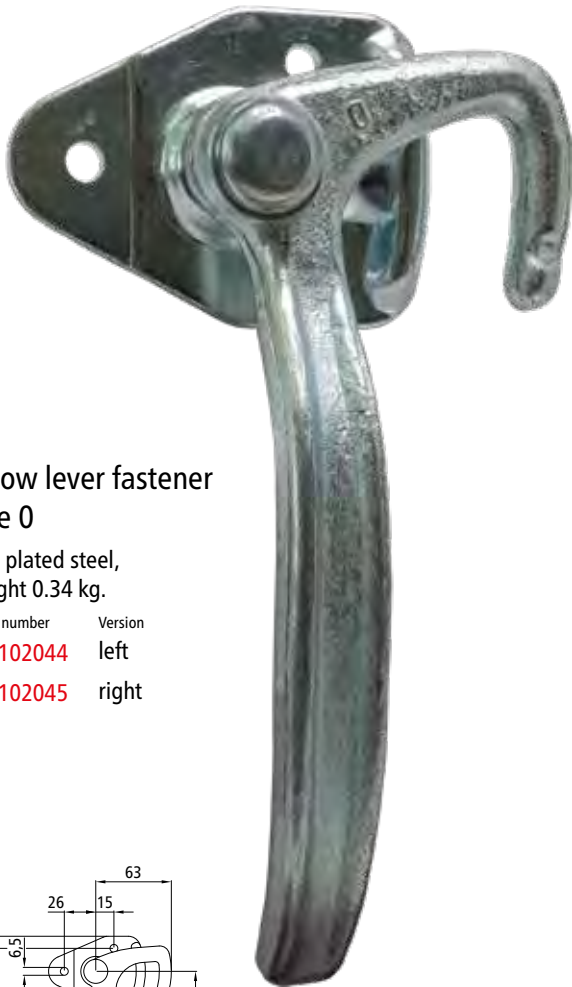
Counterholder Size 1

Left = right, raw steel, weight 0.08 kg.
385102669



**Counterholder 258 C/
Size 3**

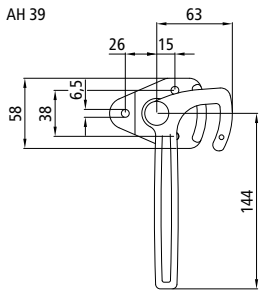
Left = right, raw steel, weight 0.17 kg.
215101030



**Elbow lever fastener
Size 0**

Zinc plated steel,
weight 0.34 kg.

Item number	Version
103102044	left
103102045	right



Illustrations: Left-hand version

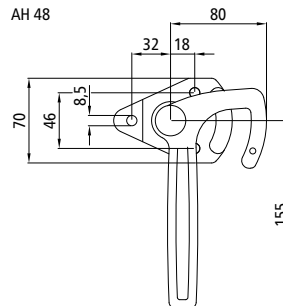
Also compatible with counterholder 257 A/258 C, see page 7, however these may need to be adapted to different body heights.



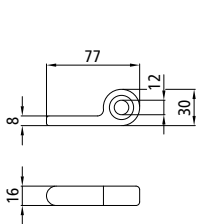
**Elbow lever fastener
Size 1**

Zinc plated steel,
weight 0.58 kg.

Item number	Version
385102404	left
385102405	right



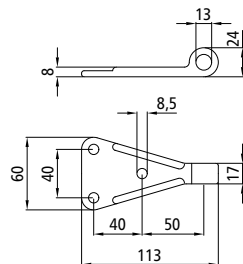
Illustrations: Left-hand version



**Counterholder 3551/
Size 0**

Left = right, raw steel,
weight 0.11 kg.

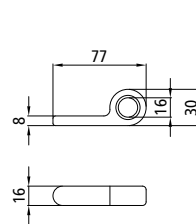
103101518



**Counterholder 3525/
Size 0**

Left = right, zinc plated steel,
weight 0.16 kg.

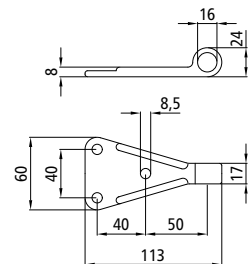
103102315



**Counterholder 3551/
Size 1**

Left = right, raw steel,
weight 0.10 kg.

103101519

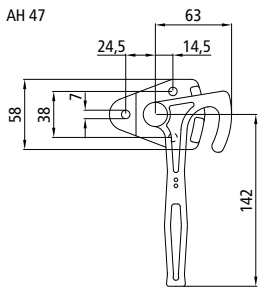
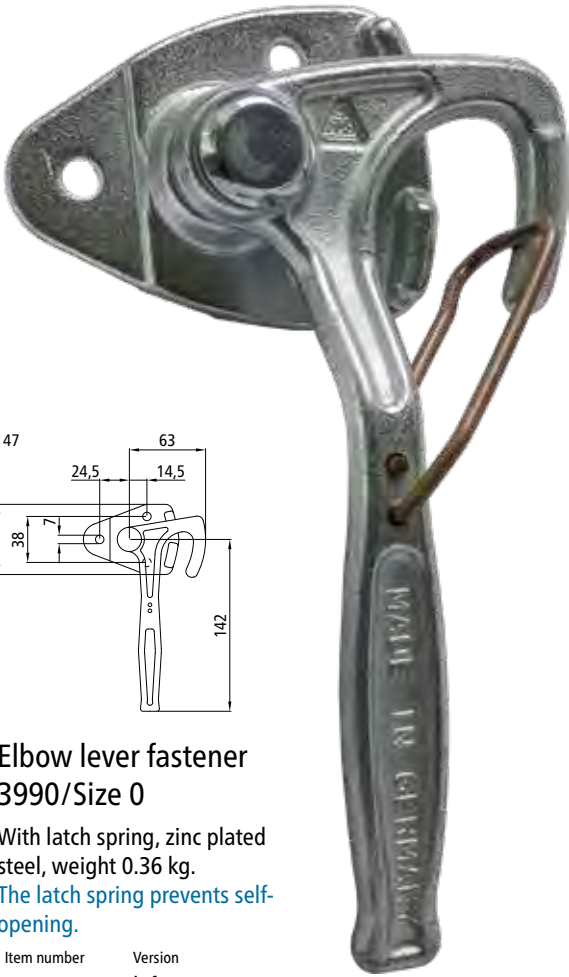


**Counterholder 3525/
Size 1**

Left = right, zinc plated steel,
weight 0.16 kg.

103102316

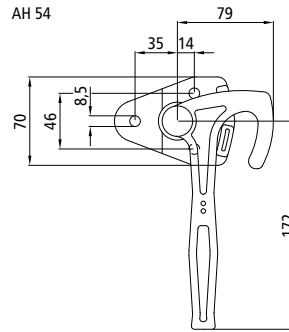
Illustrations: Left-hand version



Elbow lever fastener 3990/Size 0

With latch spring, zinc plated steel, weight 0.36 kg.
The latch spring prevents self-opening.

Item number	Version
103102481	left
103102482	right

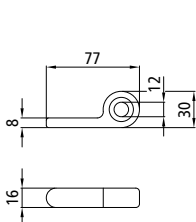


Elbow lever fastener 3991/Size 1

With latch spring, zinc plated steel, weight 0.64 kg.
The latch spring prevents self-opening.

Item number	Version
103102483	left
103102484	right

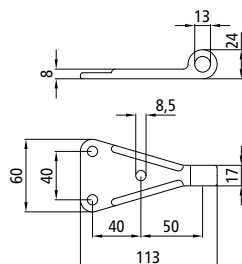
Also compatible with counterholder 257 A/258 C, see page 7, however these may need to be adapted to different body heights.



Counterholder 3551/Size 0

Left = right, raw steel, weight 0.11 kg.

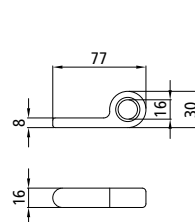
103101518



Counterholder 3525/Size 0

Left = right, zinc plated steel, weight 0.16 kg.

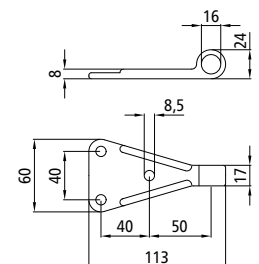
103102315



Counterholder 3551/Size 1

Left = right, raw steel, weight 0.10 kg.

103101519



Counterholder 3525/Size 1

Left = right, zinc plated steel, weight 0.16 kg.

103102316

Latch spring

Replacement part for elbow lever fasteners 3990 and 3991, stainless spring steel.

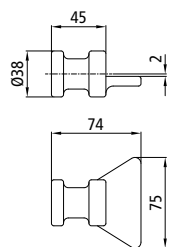
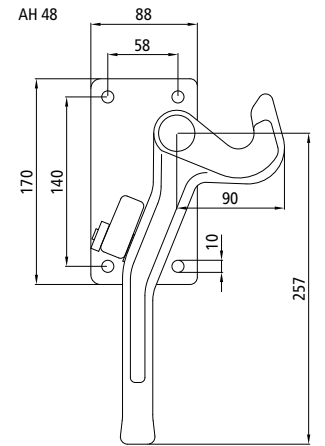
Item number	Version
103102751	left
103102752	right



H 115S

Raw steel, weight 1.92 kg.

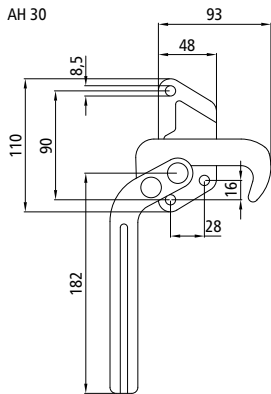
Item number	Version
102101331	left
102101332	right



Counterholder H 115S

Left = right, raw steel, weight 0.37 kg.

102101333



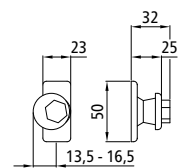
Illustrations: Left-hand version



Lever latch fastener 3210

Zinc plated steel,
weight 0.73 kg.

Item number	Version
103101950	left
103101951	right



Counterholder 3210

Left = right, zinc plated steel,
weight 0.11 kg.

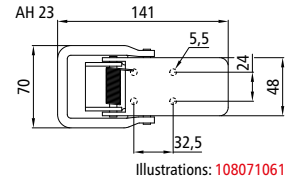
This counterholder can be finely
adjusted using the eccentric disc.

103101952

Over-centre fastener

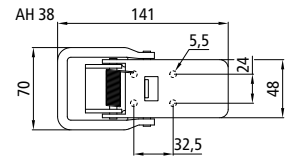
Weight 0.36 kg.

Item number	Version
108071061	Zinc plated steel
108071816	Nirosta



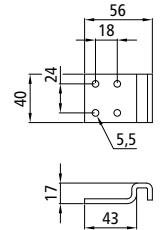
Over-centre fastener

With staple for padlock, zinc plated steel, weight 0.36 kg.
108071482



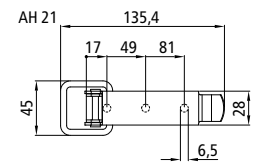
Counterholder

Zinc plated steel, weight 0.09 kg.
108071062



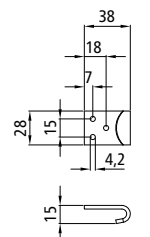
Over-centre fastener Type 720

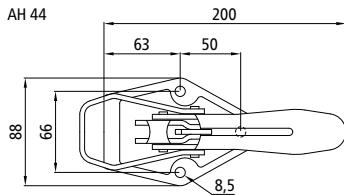
Zinc plated steel, weight 0.16 kg.
Similar to DIN 3133.
385102645



Counterholder Type 728

Zinc plated steel, weight 0.03 kg.
385102646





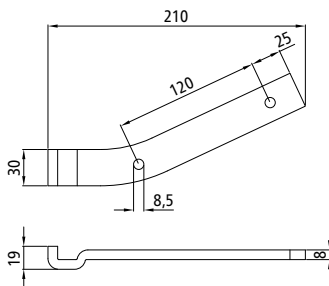
**Over-centre fastener
AH 27**

With safety device,
weight 0.53 kg.

Item number	Version
385101121	Raw steel
385102112	Zinc plated steel



Counterholder 1027
(385102113/-14) is only suitable
for mounting over a corner.

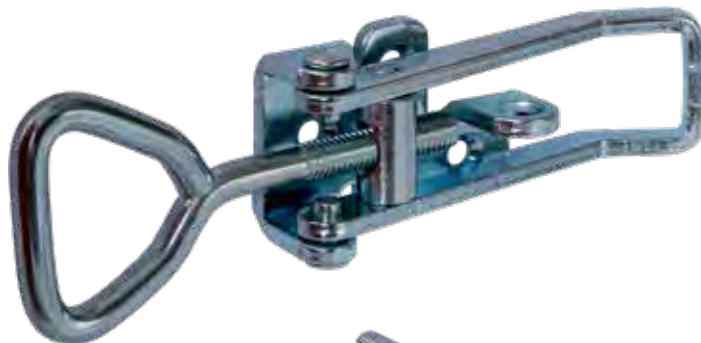
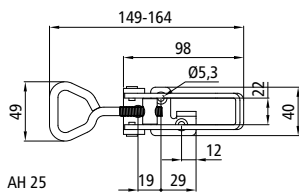


Counterholder 1027

Zinc plated steel,
weight 0.40 kg.

Item number	Version
385102113	left
385102114	right

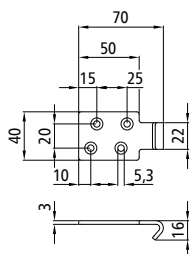
Illustrations: Left-hand version



**Over-centre fastener
703 L**

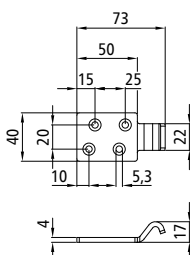
With staple for padlock,
weight 0.20 kg.

Item number	Version
105102692	Zinc plated steel
105102827	Stainless steel



Counterholder 22 C

Stainless steel, weight 0.06 kg.
105102828



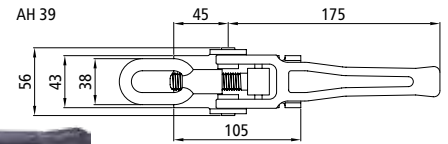
Counterholder 20 C

Zinc plated steel,
weight 0.08 kg.
105102836

S-Line® over-centre fastener

With safety device, raw steel, weight 0.85 kg.

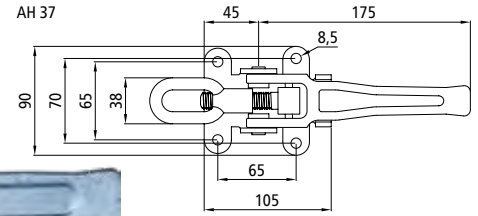
385102320



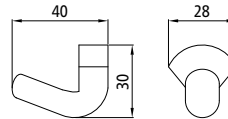
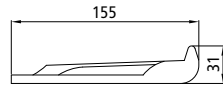
S-Line® over-centre fastener

With safety device, zinc plated steel, weight 0.88 kg.

385102319



Counterholder 6044 (101101704) is only suitable for mounting over a corner.



Counterholder 6044

Zinc plated steel, weight 0.47 kg.

101101704

Counterholder 6044 S

Raw steel, weight 0.47 kg.

385102032

Tensioning screw with wing nut

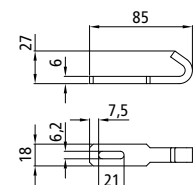
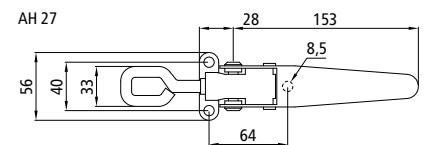
Not shown, zinc plated steel. Replacement part for over-centre fasteners 385102319 + -20.

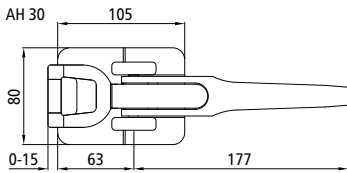
385102783

S-Line® over-centre fastener

With counterholder, zinc plated steel, weight 0.44 kg.

385101688

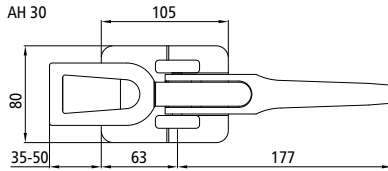




PWP over-centre fastener

With short stirrup catch, zinc plated steel, weight 0.98 kg.

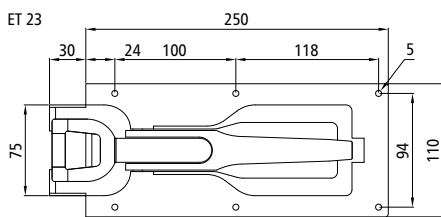
105101624



PWP over-centre fastener

With long stirrup catch, zinc plated steel, weight 1.02 kg.

105101625



PWP over-centre fastener

With short stirrup catch. Diecast aluminium trough, zinc plated steel mechanism, weight 0.80 kg.

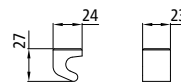
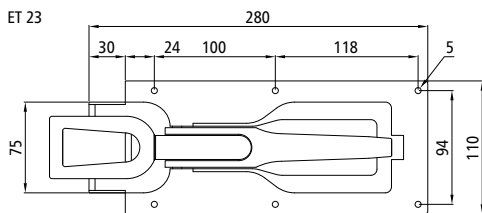
105102117



PWP over-centre fastener

With long stirrup catch. Diecast aluminium trough, zinc plated steel mechanism, weight 0.84 kg.

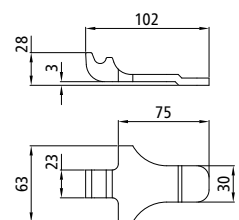
105102119



Counterholder

Raw steel, weight 0.06 kg.

385102523



Counterholder

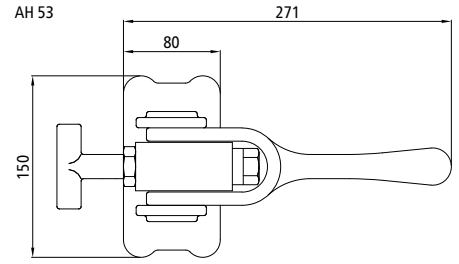
Hot-dip galvanised steel, weight 0.21 kg.

105101627

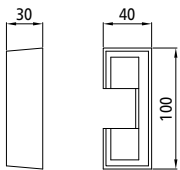
PWP jumbo over-centre fastener

Raw steel, weight 3.12 kg.
 For closing and pulling down.
 Maximum permissible force
 5000 daN.

385101207



The PWP jumbo over-centre fastener is designed to close and hold down. Maximum permissible force 5000 daN.



Counterholder

Raw steel, weight 0.42 kg.

385101208



T-pieces

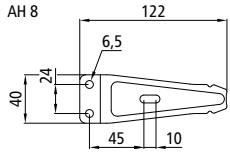
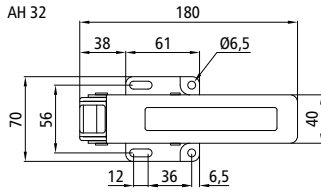
Replacement part for PWP jumbo over-centre fastener.

385101209

Other replacement parts

Not shown.

Item number	Name
385102566	Spring
385102567	Tensioning nut
385102568	Lock nut



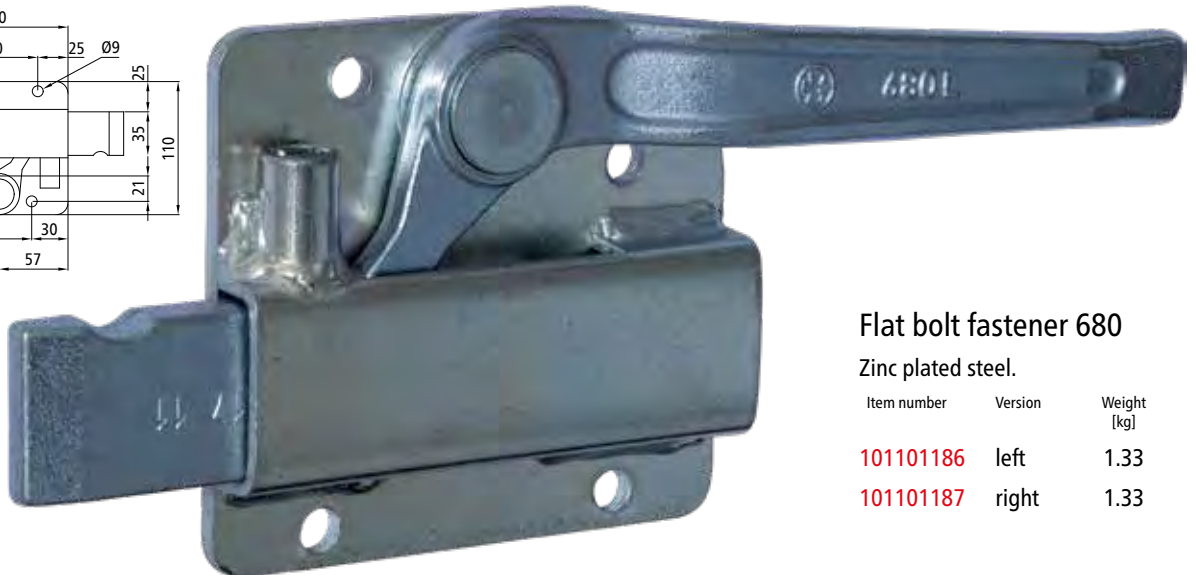
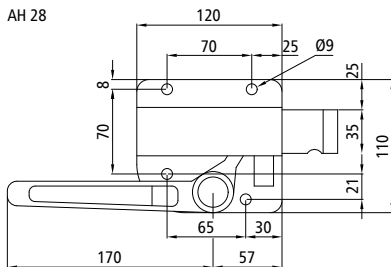
The counterholder engages in the bolt fastener automatically.



S-Line® automatic bolt fastener

With counterholder, zinc plated steel, weight 0.51 kg.

385102704

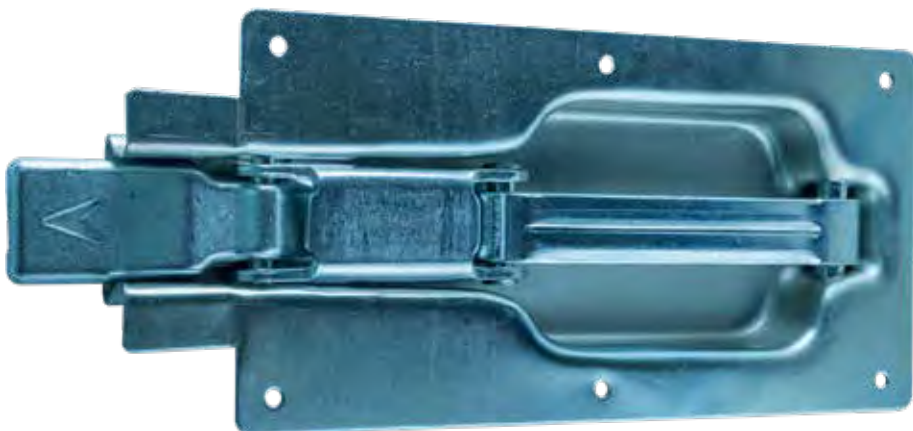


Flat bolt fastener 680

Zinc plated steel.

Item number	Version	Weight [kg]
101101186	left	1.33
101101187	right	1.33

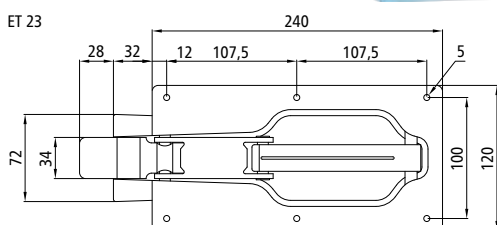
Illustrations: Left-hand version



Flat bolt fastener

Zinc plated steel, weight 1.02 kg.

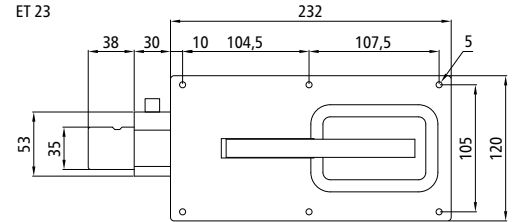
108071629



PWP flat bolt fastener

Diecast aluminium trough, zinc plated steel mechanism, weight 0.88 kg.

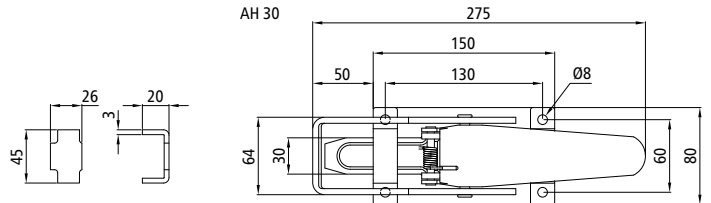
105101204



Latch fastener

Includes counterholder, zinc plated steel fastener, raw steel counterholder, weight 1.04 kg.

385101567

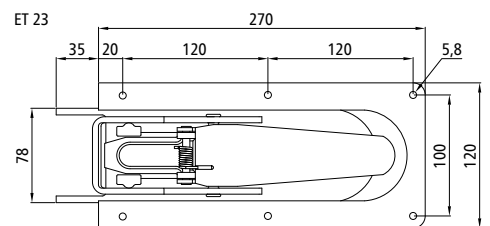


Latch fastener

Zinc plated steel, weight 1.34 kg.

Please order the counterholder separately.

385102713

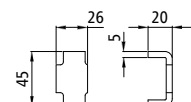


Counterholder

Raw steel, weight 0.05 kg.

For latch fastener 385102713.

385102855



The new PWP Paco latch fastener for 25 mm side boards

- Ergonomic safety button for easy opening
- Dual fastening
- Opening stroke 32 mm
- Successful in tensile tests at ≥ 40 kN. Can be opened and closed without any trouble under loads of up to 32 kN.
- Zinc plated Fe/Zn12/A -DIN EN ISO 2081
- ≥ 192 h salt spray test

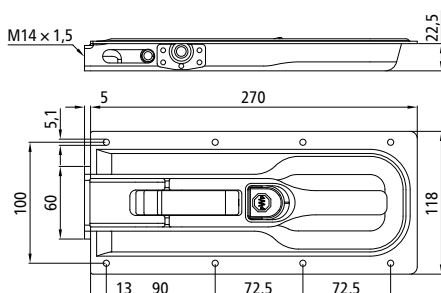


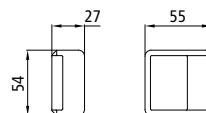
PWP Paco

Zinc plated steel,
weight 1.42 kg.

Please order the latching
hook/T-piece separately.

143112767





PWP Paco latching hook

Zinc plated steel,
weight 0.15 kg.

385102872

PWP Paco T-pieces

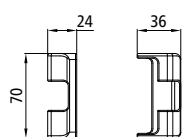
Zinc plated steel.

Item number	Version	Weight [kg]
385102630	60 mm	0.10
385102638	95 mm	0.14

Counterholder for latching hook

Raw steel, weight 0.27 kg.

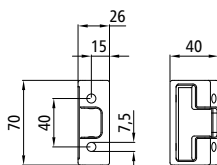
385102873



Counterholder for T-piece

Raw steel, weight 0.13 kg.

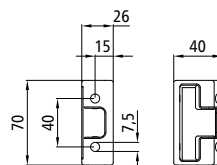
385102461



Counterholder for T-piece

Raw steel, weight 0.19 kg.

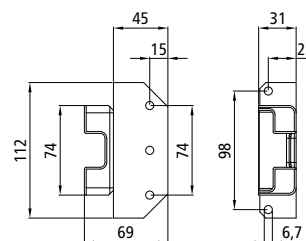
385102886



Counterholder for T-piece

Steel, black KTL-coated,
weight 0.19 kg.

385102887



Counterholder for T-piece

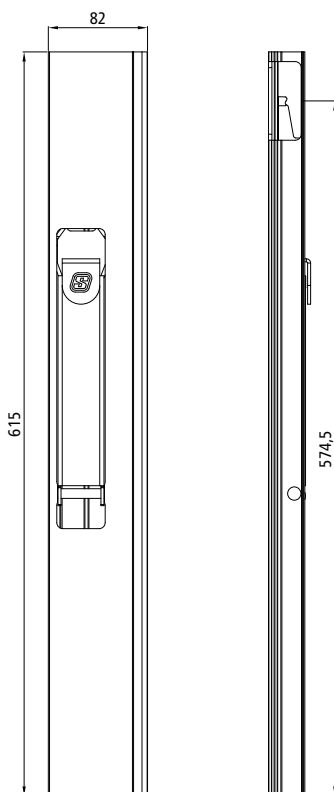
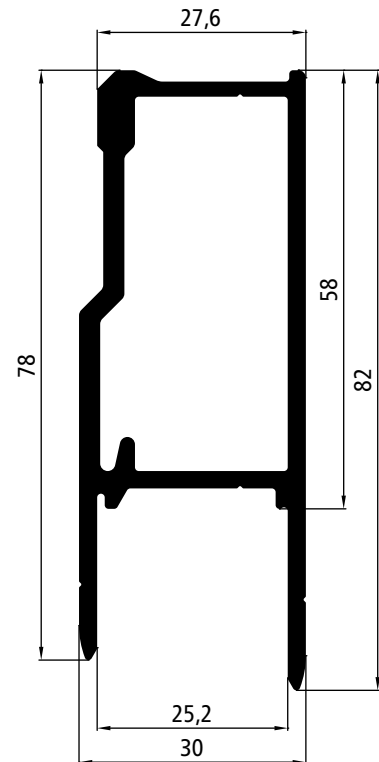
Zinc plated steel,
weight 0.34 kg.

605645067

All **S-Line**® long travel fasteners have an internal load pressure sensor.



Aluminium surround **621307** in 1:1 scale



S-Line® long travel fastener 615 mm

Aluminium surround **621307**, raw surround with smooth outer sides, fastening mechanism of zinc plated steel coated in black RAL 9005, weight 1.53 kg.

Item number	Version
385629115	left
385629116	right

S-Line® long travel fastener 615 mm

Aluminium surround **621307**, surround powder-coated in white RAL 9010 with smooth outer sides, fastening mechanism of zinc plated steel coated in black RAL 9005, weight 1.53 kg.

Item number	Version
385629135	left
385629136	right

S-Line® long travel fastener 615 mm

Aluminium surround **621307**, anodised surround with smooth outer sides, fastening mechanism of zinc plated steel coated in black RAL 9005, weight 1.53 kg.

Item number	Version
385629155	left
385629156	right



Illustrations: Left-hand version



All S-Line® long travel fasteners have an internal load pressure sensor.

S-Line® long travel fastener 815 mm

Aluminium surround **621307**, raw surround with smooth outer sides, zinc plated steel fastening mechanism, weight 1.83 kg.

Item number	Version
385629017	left
385629018	right

S-Line® long travel fastener 815 mm

Aluminium surround **621307**, raw surround with smooth outer sides, fastening mechanism of zinc plated steel coated in black RAL 9005, weight 1.83 kg.

Item number	Version
385629117	left
385629118	right

S-Line® long travel fastener 815 mm

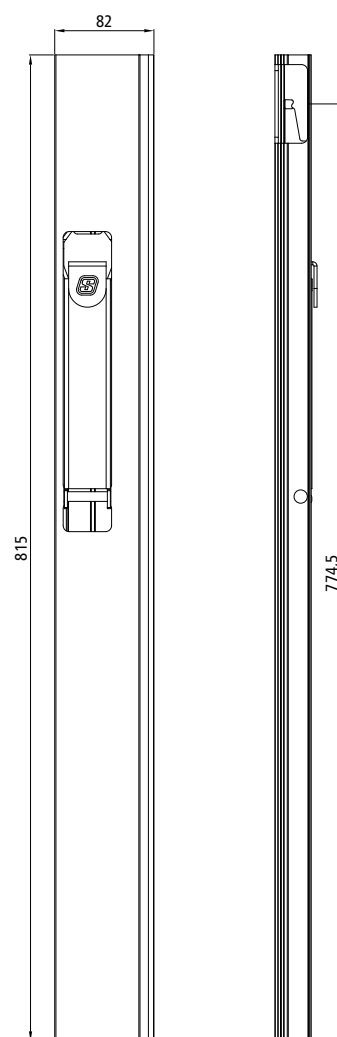
Aluminium surround **621307**, surround powder-coated in white RAL 9010 with smooth outer sides, fastening mechanism of zinc plated steel coated in black RAL 9005, weight 1.83 kg.

Item number	Version
385629137	left
385629138	right

S-Line® long travel fastener 815 mm

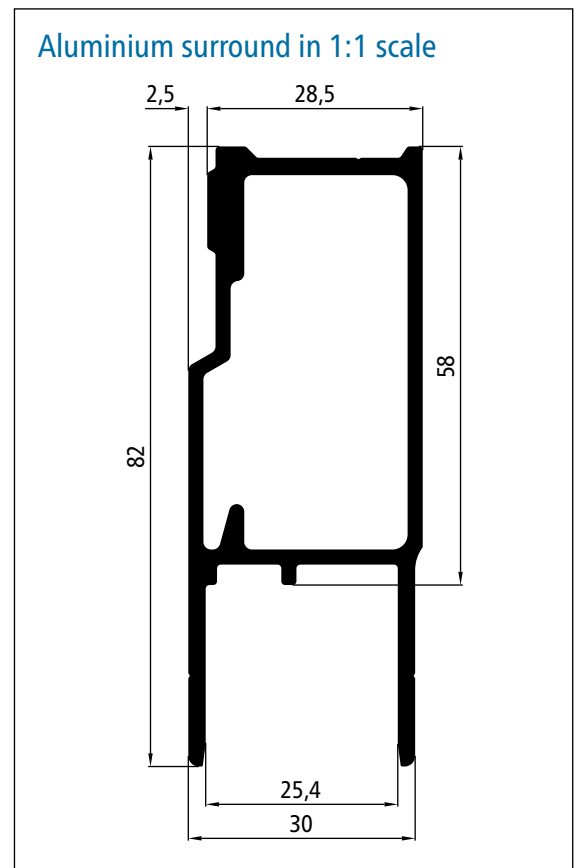
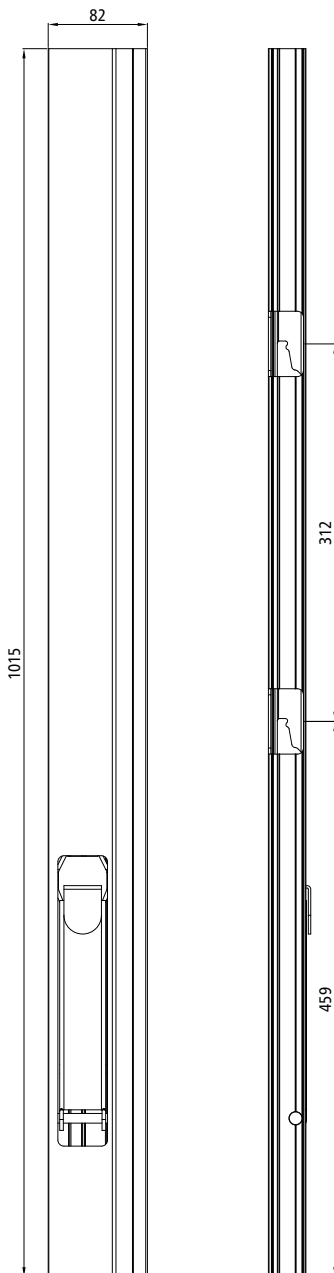
Aluminium surround **621307**, anodised surround with smooth outer sides, fastening mechanism of zinc plated steel coated in black RAL 9005, weight 1.83 kg.

Item number	Version
385629157	left
385629158	right



Illustrations: Left-hand version

All Twin-Lock long travel fasteners have an internal load pressure sensor.



Twin-Lock long travel fastener 1015 mm

Aluminium surround, raw surround with smooth outer sides, zinc plated steel fastening mechanism, weight 2.66 kg.

Item number	Version
385629061	left
385629062	right

Twin-Lock long travel fastener 1015 mm

Aluminium surround, surround powder-coated in white RAL 9010 with smooth outer sides, zinc plated steel fastening mechanism, weight 2.66 kg.

Item number	Version
385629075	left
385629076	right

Twin-Lock long travel fastener 1015 mm

Aluminium surround, anodised surround with smooth outer sides, zinc plated steel fastening mechanism, weight 2.66 kg.

Item number	Version
385629081	left
385629082	right



Illustrations: Left-hand version

S-Line® plastic caps

For all S-Line® long travel fasteners. Black plastic, weight 0.015 kg.

Item number	Version
385102875	left
385102876	right



Illustration: Left-hand version

Twin-Lock plastic caps

For all Twin-Lock long travel fasteners. Black plastic, weight 0.011 kg.

Item number	Version
385109162	left
385109161	right



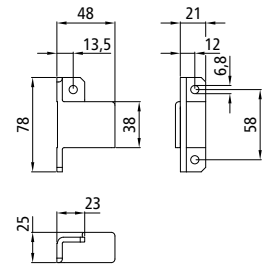
Illustration: Left-hand version

All of the keeper pockets listed here can be combined with S-Line® and Twin-Lock long travel fasteners.

Keeper pocket

For screw-mounting, black KTL-coated steel, weight 0.19 kg.

Item number	Version
101102748	left
101102749	right



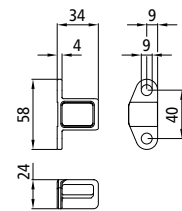
Illustrations: Left-hand version

Keeper pocket

For rivet-mounting, left = right, black KTL-coated, weight 0.08 kg.

This keeper pocket was developed for mounting on Blueline IL aluminium pillars.

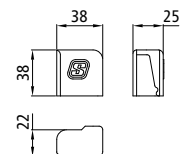
215131487



S-Line® keeper pocket

For weld-mounting, raw steel, weight 0.13 kg.

Item number	Version
385102504	left
385102505	right

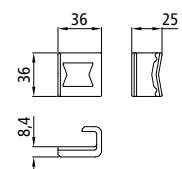


Illustrations: Left-hand version

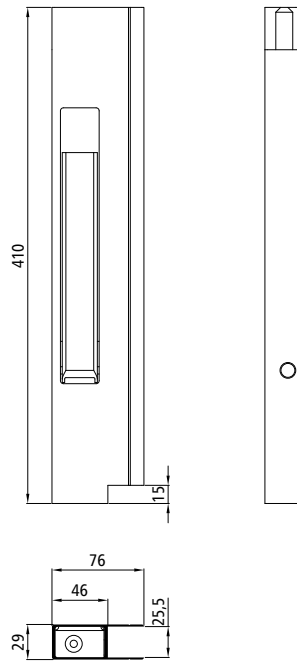
Twin-Lock keeper pocket

For weld-mounting, left = right, raw steel, weight 0.08 kg.

385100126



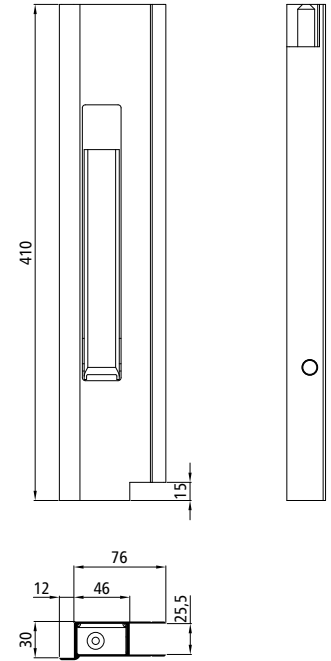
Illustrations: Left-hand version



Long travel fastener 400 mm

Aluminium surround without flange, anodised surround, bottom pivoting zinc plated steel fastening mechanism, weight 0.98 kg.

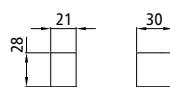
Item number	Version
108071087	left
108071086	right



Long travel fastener 400 mm

Aluminium surround with flange, anodised surround, bottom pivoting zinc plated steel fastening mechanism, weight 1.11 kg.

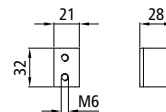
Item number	Version
108071091	left
108071090	right



Keeper pocket

For weld-mounting, left = right, raw steel, weight 0.004 kg.

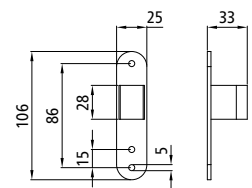
108071094



Keeper pocket

For screw-mounting, left = right, zinc plated steel, weight 0.006 kg.

108071096



Keeper pocket

For screw-mounting, left = right, zinc plated steel, weight 0.090 kg.

108071095

Long travel fastener T 50 400 mm

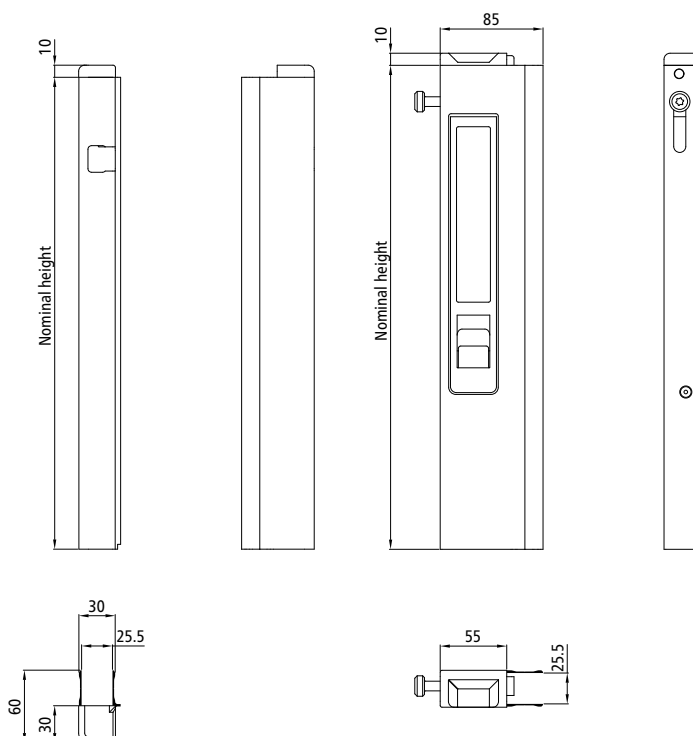
With internal load pressure sensor, aluminium surround nominal height 400 mm, anodised surround, black plastic fastening lever. [Please order the fastener and fastener profile separately.](#)

Item number	Name	Version	Weight [kg]
106629382	Long travel fastener	left	0.67
106629482	Mounting bracket (Counterholder)	left	0.38
106629381	Long travel fastener	right	0.67
106629481	Mounting bracket (Counterholder)	right	0.38

Long travel fastener T 50 500 mm

With internal load pressure sensor, aluminium surround nominal height 500 mm, anodised surround, black plastic fastening lever. [Please order the fastener and fastener profile separately.](#)

Item number	Name	Version	Weight [kg]
106629384	Long travel fastener	left	0.81
106629484	Mounting bracket (Counterholder)	left	0.45
106629383	Long travel fastener	right	0.81
106629483	Mounting bracket (Counterholder)	right	0.45



Cover caps

Replacement parts for long travel fastener T 50, not shown.

Item number	Name	Version
106629490	Cover cap - Mounting bracket	left
106629489	Cover cap - Mounting bracket	right
106629488	Cover cap - Long travel fastener	left
106629487	Cover cap - Long travel fastener	right



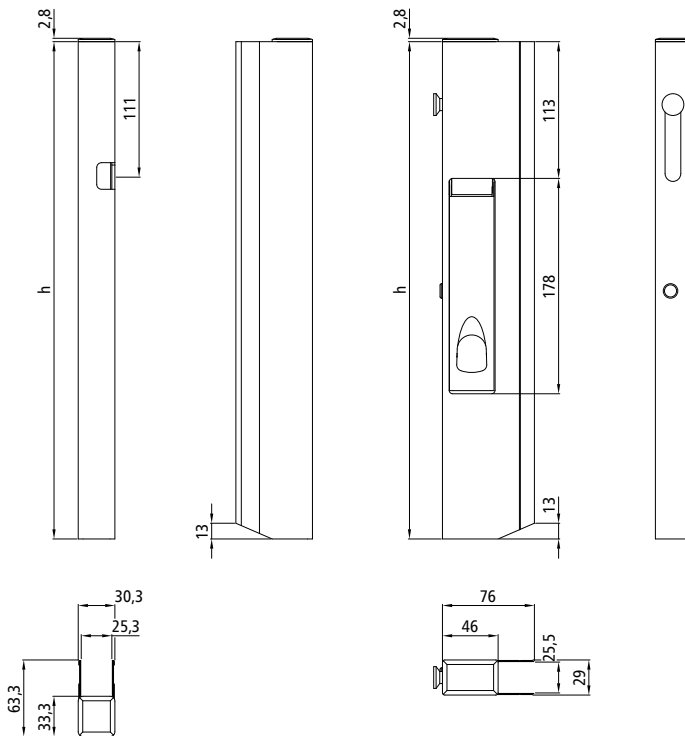
Long travel fastener H 400 - Type 411-01

Aluminium surround without flange, nominal height 400 mm, anodised surround, top pivoting stainless steel fastener lever.

Please order the long travel fastener and counterholder separately.

Item number	Name	Version	Dim. h [mm]	Weight [kg]
102629520	Long travel fastener	left	411	0.71
102629620	Counterholder	left	411	0.35
102629521	Long travel fastener	right	411	0.71
102629621	Counterholder	right	411	0.35

Please note that a left-hand long travel fastener H 400 Type 411-01 requires a right-hand counterholder.



Illustrations:
Long travel fastener (right): Left-hand version
Counterholder (left): Right-hand version

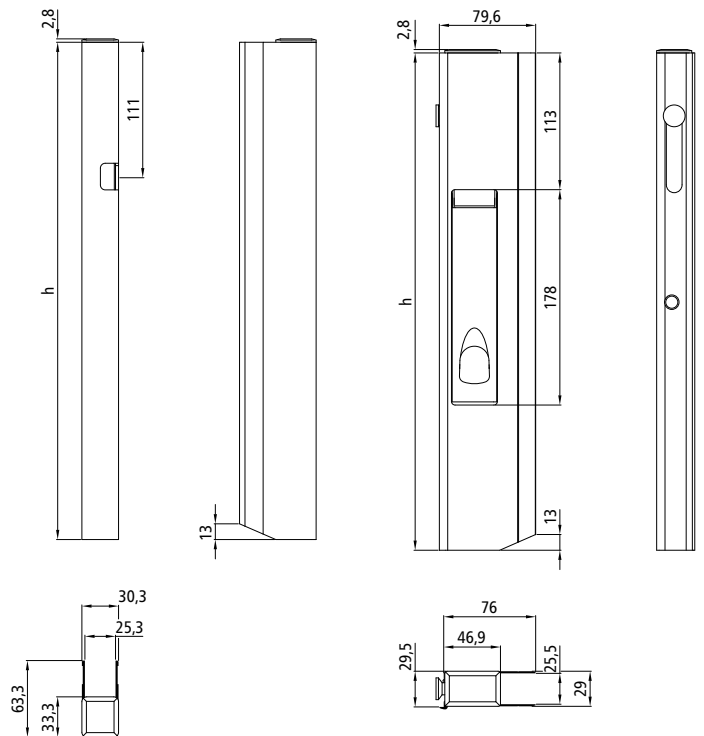
Please note that a left-hand long travel fastener H 400 Type 411-02 requires a right-hand counterholder.

Long travel fastener H 400 - Type 411-02

Aluminium surround with short lip, nominal height 500 mm, anodised surround, top pivoting stainless steel fastening lever.

Please order the long travel fastener and counterholder separately.

Item number	Name	Version	Dim. h [mm]	Weight [kg]
102629530	Long travel fastener	left	511	0.81
102629622	Counterholder	left	511	0.46
102629531	Long travel fastener	right	511	0.81
102629623	Counterholder	right	511	0.46



Illustrations:
 Long travel fastener (right): Left-hand version
 Counterholder (left): Right-hand version



Please note that a left-hand long travel fastener H 400 Type 411-04 requires a right-hand counterholder.

Long travel fastener H 400 - Type 411-04

Aluminium surround with flange, nominal height 300 mm, anodised surround, top pivoting stainless steel fastener lever.

Please order the long travel fastener and counterholder separately.

Item number	Name	Version	Dim. h [mm]	Weight [kg]
102629518	Long travel fastener	left	311	0.49
102629618	Counterholder	left	311	0.23
102629519	Long travel fastener	right	311	0.49
102629619	Counterholder	right	311	0.23

Long travel fastener H 400 - Type 411-04

Aluminium surround with flange, nominal height 400 mm, anodised surround, top pivoting stainless steel fastener lever.

Please order the long travel fastener and counterholder separately.

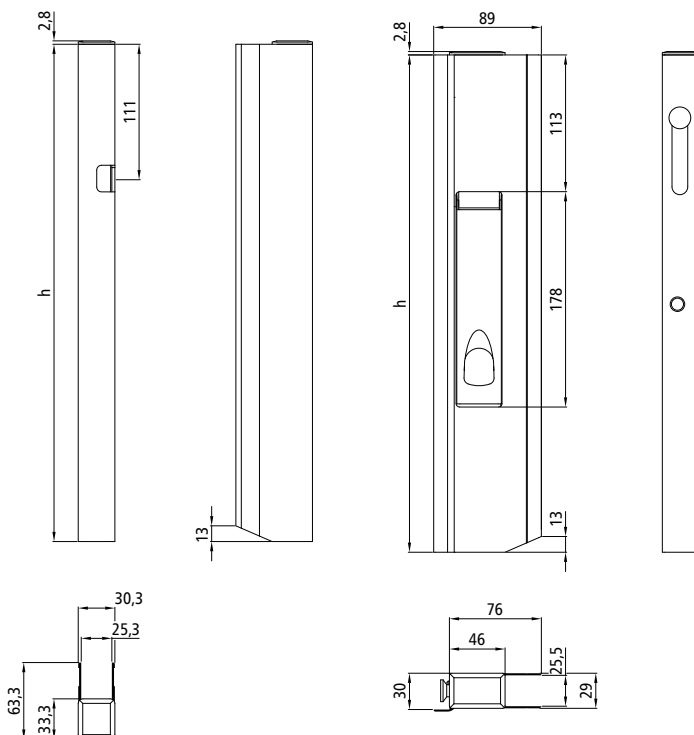
Item number	Name	Version	Dim. h [mm]	Weight [kg]
102629524	Long travel fastener	left	411	0.61
102629620	Counterholder	left	411	0.35
102629525	Long travel fastener	right	411	0.61
102629621	Counterholder	right	411	0.35

Long travel fastener H 400 - Type 411-04

Aluminium surround with flange, nominal height 500 mm, anodised surround, top pivoting stainless steel fastener lever.

Please order the long travel fastener and counterholder separately.

Item number	Name	Version	Dim. h [mm]	Weight [kg]
102629516	Long travel fastener	left	511	0.72
102629622	Counterholder	left	511	0.46
102629517	Long travel fastener	right	511	0.72
102629623	Counterholder	right	511	0.46



Illustrations:
 Long travel fastener (right): Left-hand version
 Counterholder (left): Right-hand version

Long travel fastener H 400 - Type 411-10

Aluminium surround without flange, nominal height 400 mm, anodised surround, top pivoting stainless steel fastener lever.

Item number	Version	Dim. h [mm]	Weight [kg]
102629522	left	411	0.61
102629523	right	411	0.61

Long travel fastener H 400 - Type 411-10

Aluminium surround without flange, nominal height 500 mm, anodised surround, top pivoting stainless steel fastener lever.

Item number	Version	Dim. h [mm]	Weight [kg]
102629532	left	511	0.61
102629533	right	511	0.61

Long travel fastener H 400 - Type 411-11

Aluminium surround with flange, nominal height 300 mm, anodised surround, top pivoting stainless steel fastener lever.

Item number	Version	Dim. h [mm]	Weight [kg]
102629510	left	311	0.49
102629511	right	311	0.49

Long travel fastener H 400 - Type 411-11

Aluminium surround with flange, nominal height 400 mm, anodised surround, top pivoting stainless steel fastener lever.

Item number	Version	Dim. h [mm]	Weight [kg]
102629512	left	411	0.61
102629513	right	411	0.61

Long travel fastener H 400 - Type 411-11

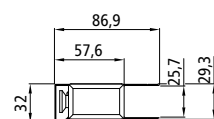
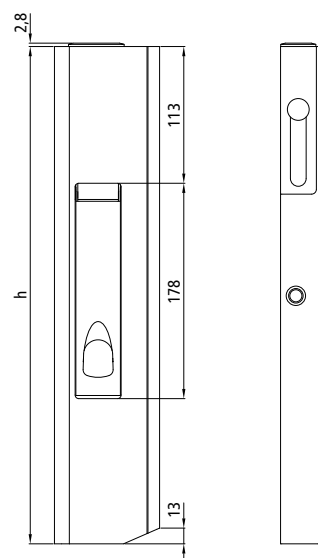
Aluminium surround with flange, nominal height 500 mm, anodised surround, top pivoting stainless steel fastener lever.

Item number	Version	Dim. h [mm]	Weight [kg]
102629514	left	511	0.72
102629515	right	511	0.72

Long travel fastener H 400 - Type 411-11

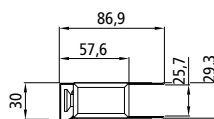
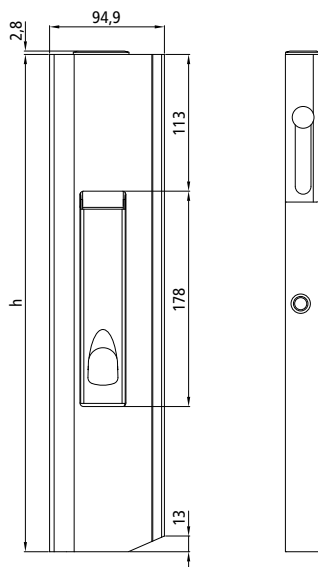
Aluminium surround with flange, nominal height 600 mm, anodised surround, top pivoting stainless steel fastener lever.

Item number	Version	Dim. h [mm]	Weight [kg]
102629526	left	611	0.83
102629527	right	611	0.83

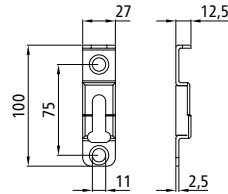


Illustrations: Left-hand version

Please order the keeper pocket separately for all long travel fasteners H 400 on this page.



Illustrations: Left-hand version

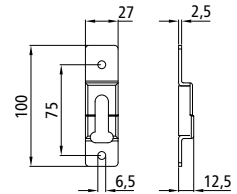


Keeper pocket

For rivet-mounting,
left = right, zinc plated steel,
weight 0.063 kg.

For all long travel fasteners
H400 - Types 411-10 and
411-11.

102629720



Keeper pocket

For screw-mounting,
left = right, zinc plated steel,
weight 0.063 kg.

For all long travel fasteners
H400 - Types 411-10 and
411-11.

102629721



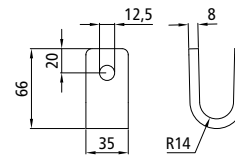
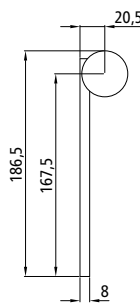
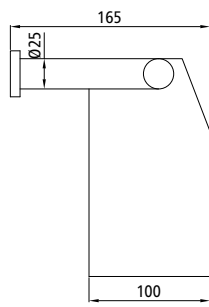
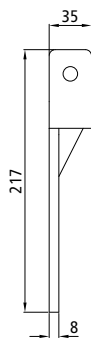
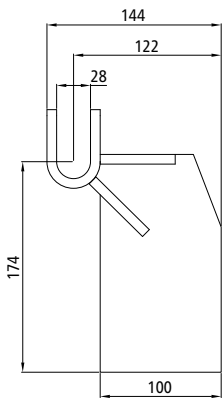
Image above: Lug 114, left-hand version



Image above: Lug 114, left-hand version in combination with lug 171, right-hand version



Lug 114 must be secured to prevent accidental ejection from tipper fasteners 123/171.



Tipper fastener 171

Raw steel.

Item number	Version	Weight [kg]
125101400	left	1.47
125101401	right	1.47

Lug 114

Raw steel.

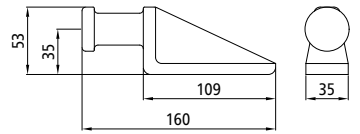
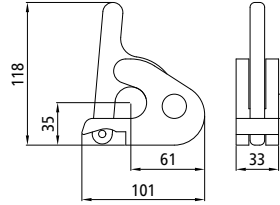
Item number	Version	Weight [kg]
125101402	left	1.61
125101403	right	1.61

Tipper fastener 123

Raw steel, weight 0.30 kg.

104131207

Tipper fastener H 121 must be secured against accidental opening.



Tipper fastener H 121

Raw steel, weight 0.93 kg.

102101388

Lug H 121

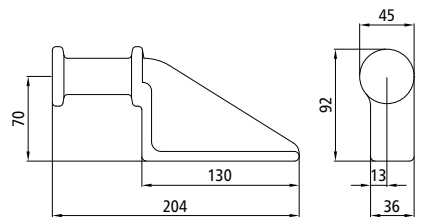
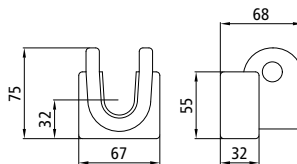
Raw steel, weight 0.85 kg.

102101373



Lug H 120 must be secured to prevent accidental injection from bearing shell H 120 B.

Illustrations - lugs:
Left-hand version



Bearing shell H 120 B

Raw steel, weight 0.84 kg.

102101385

Lug H 120

Raw steel.

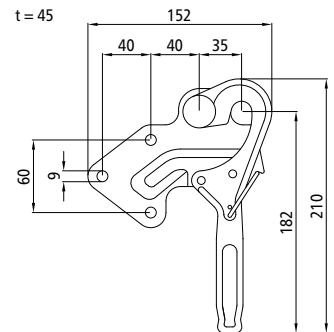
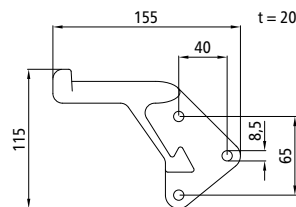
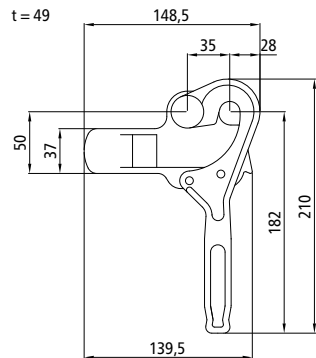
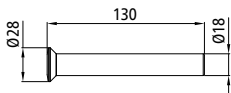
Item number	Version	Weight [kg]
102101383	left	1.29
102101390	right	1.29

Bearing shell H 120 B can be welded in either direction or sideways to the centre or corner pillar. The board can be designed to swing inward or outward by swapping lugs H 120 from left to right.

All illustrations on this page:
Left-hand version



Lug 3822 and lug pin
385103956 can be
combined with both tipper
closures (3821 and 3822).



Lug pin

Raw steel, weight 0.27 kg.

385103956

Tipper closure 3821

Raw steel, weight 0.78 kg.

Item number	Version
103102767	left
103102768	right

Lug 3812

Zinc plated steel,
weight 0.40 kg.

Item number	Version
103102915	left
103102916	right

Tipper closure 3822

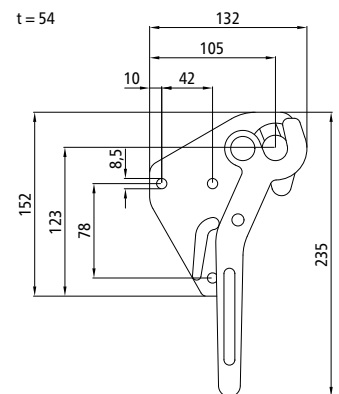
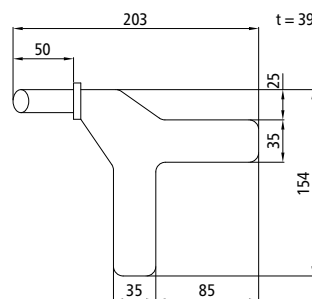
With spring latch, zinc plated
steel, weight 0.79 kg.

Item number	Version
103102911	left
103102912	right

All illustrations on this page:
Left-hand version



Tipper closure H 114 is only intended for side boards on tipper bodies up to 3.5 t permissible GVW. The bearing for tipper bodies up to 5 t permissible GVW is suitable for installation on extension (greedy) boards.



Lug H 114 A

Raw steel, weight 0.61 kg.

Item number	Version
102102770	left
102102771	right

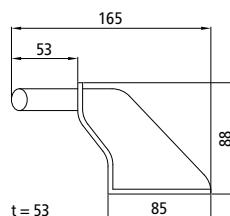
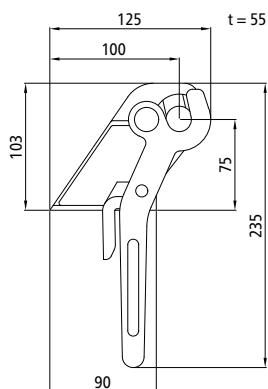
Tipper closure H 114

Raw steel, weight 1.28 kg.

Item number	Version
102101309	left
102101310	right



Tipper closure H 114/4.5 is only intended for side boards on tipper bodies up to 4.5 t permissible GVW. The bearing for tipper bodies up to 6 t permissible GVW is suitable for installation on extension (greedy) boards.



**Tipper closure
H 114/4.5**

Raw steel, weight 1.40 kg.

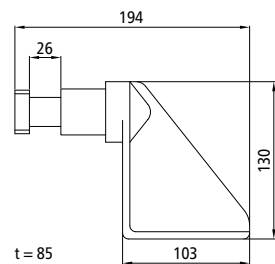
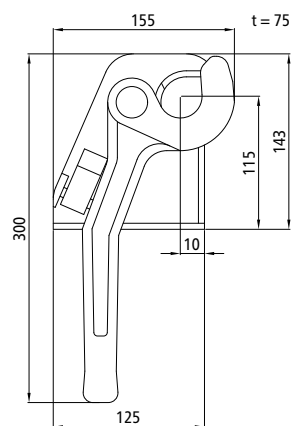
Item number	Version
102101540	left
102101541	right

**Lug
H 114/4.5**

Raw steel, weight 0.69 kg.

Item number	Version
102101542	left
102101543	right

All illustrations on this page:
Left-hand version



Tipper closure H 114ST

Raw steel, weight 2.72 kg.

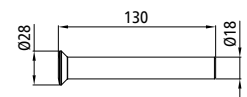
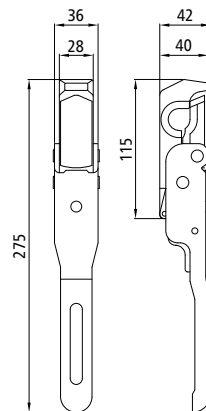
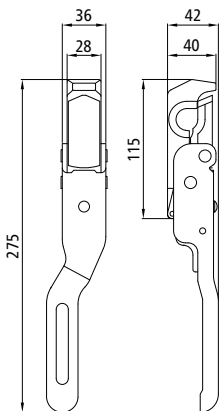
Item number	Version
102101321	left
102101322	right

Lug H 114ST

Raw steel, weight 1.87 kg.

Item number	Version
102101323	left
102101324	right

Tipper closure H 114ST is intended for side boards on tipper bodies from 4.5 t permissible GVW.



Tipper closure, cranked

Bare housing, other parts zinc plated steel.

Item number	Version	Weight [kg]
385102955	left	0.98
385102954	right	0.98

Tipper closure, straight

Bare housing, other parts zinc plated steel, weight 0.97 kg.

385102953

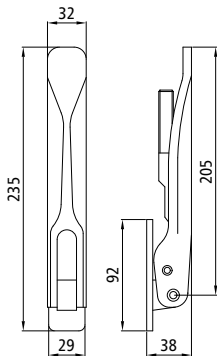
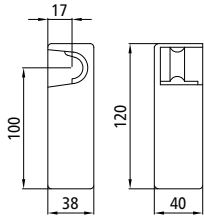
Lug pin

Raw steel, weight 0.27 kg.

385103956

Illustration - Tipper closure, cranked:
Left-hand version

All illustrations on this page:
Left-hand version



Tipper fastener H 10 G

Pos. 1, raw steel, weight 0.53 kg.

Item number	Version
102102385	left
102102386	right

Locking bolt H 10 G

Zinc plated steel.

Item number	Pos.	Version	Weight [kg]
102102387	2	side (left = right)	0.76
102102388	3	rear left	0.76
102102389		rear right	0.76

Turnbuckle H 10 G/H 11

Pos. 4, zinc plated steel.

Item number	Length [mm]	Weight [kg]
102102390	55	0.09
102102391	120	0.21
102102392	180	0.36
102102393	240	0.51
102102394	300	0.64

Tipper closure H 10 G is suitable for all pallet tipper bodies with side boards. Side board pull-in capacity approx. 16 mm.

Operating mechanism H 10 G/H 11

Pos. 5, zinc plated steel, weight 0.71 kg.

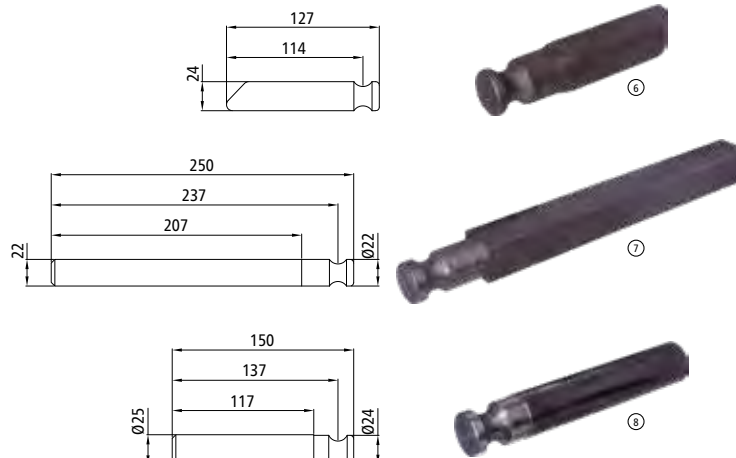
102102684

Lug pin H 10 G

Raw steel.

Lug pin 102102681 fits the chamber of aluminium profile 611074.

Item number	Pos.	Weight [kg]
102101848	6	0.41
102102677	7	0.89
102102681	8	0.54

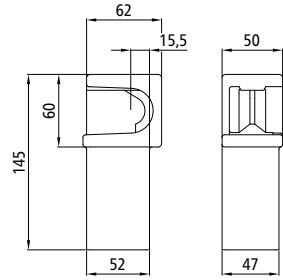


All illustrations on this page:
Left-hand version

Tipper fastener H 11

Pos. 1, raw steel, weight 1.33 kg.

Item number	Version
102102199	left
102102200	right



Locking bolt H 11

Zinc plated steel.

Item number	Pos.	Version	Weight [kg]
102102204	2	side (left = right)	1.05
102102205	3	rear left	1.05
102102206		rear right	1.05

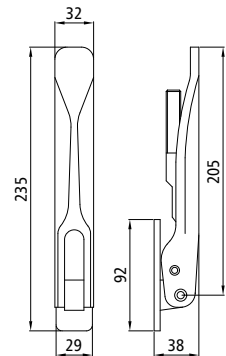


Turnbuckle H 10G/H 11

Pos. 4, zinc plated steel.

Item number	Length [mm]	Weight [kg]
102102390	55	0.09
102102391	120	0.21
102102392	180	0.36
102102393	240	0.51
102102394	300	0.64

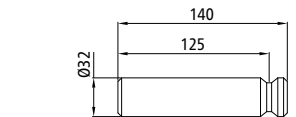
Tipper closure H 11 is suitable for all tipper bodies with side boards. Side board pull-in capacity approx. 21 mm.



Operating mechanism H 10G/H 11

Pos. 5, zinc plated steel, weight 0.71 kg.

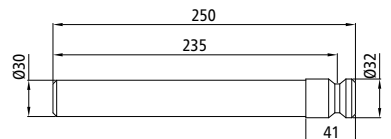
102102684



Lug pin H 11 C

Pos. 6, raw steel, weight 0.85 kg.

102102201



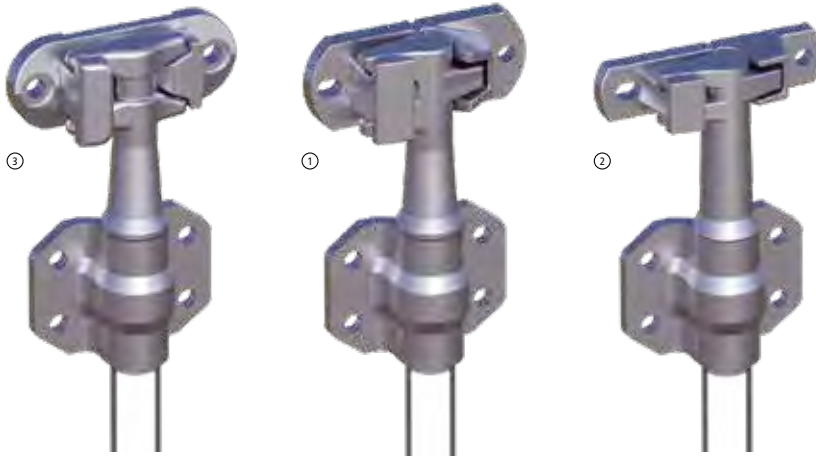
Lug pin H 11

Raw steel, weight 1.40 kg.

Special lug pin for use in 40 mm side board profile 631001 (upper end profile).

102102736





Container fastener 3/4"

Pos. 1, zinc plated steel,
weight 5.94 kg.
Similar to Bloxwich B 2000.

385102678

Container fastener 3/4"

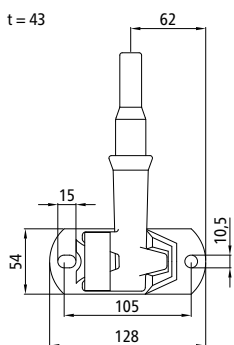
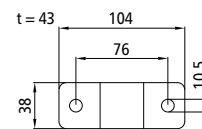
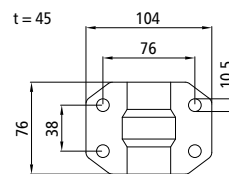
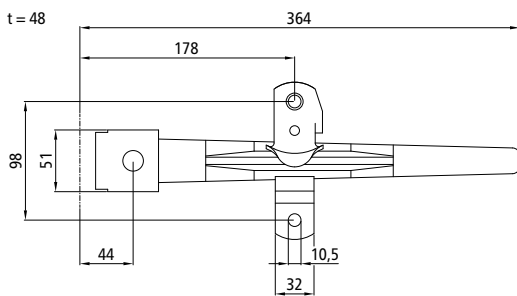
Pos. 2, zinc plated steel,
weight 5.27 kg.
Similar to Bloxwich B 2000 N.

385102679

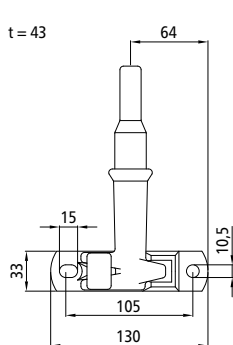
Container fastener 3/4"

Pos. 3, zinc plated steel,
weight 5.94 kg.
Similar to Bloxwich C 300.

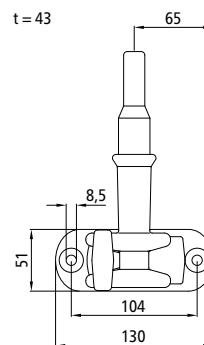
385102680



385102678



385102679



385102680

**Locking bar fasteners?
But aren't they...**
The closures on this page are widely known as container fasteners.

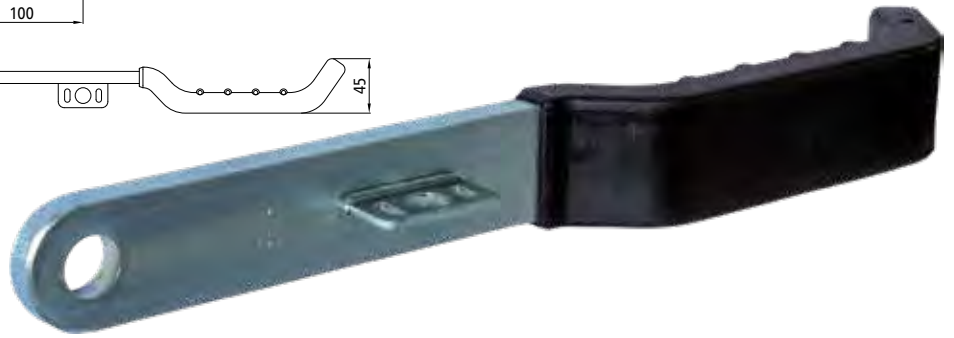
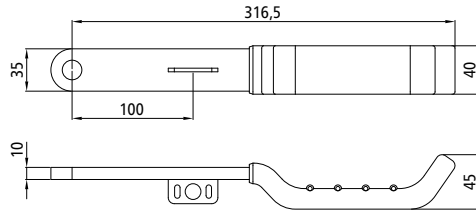
Suitable Ø 27 mm locking bars can be found on page 54.

Hand lever

Weight 0.96 kg.

No accessories provided.

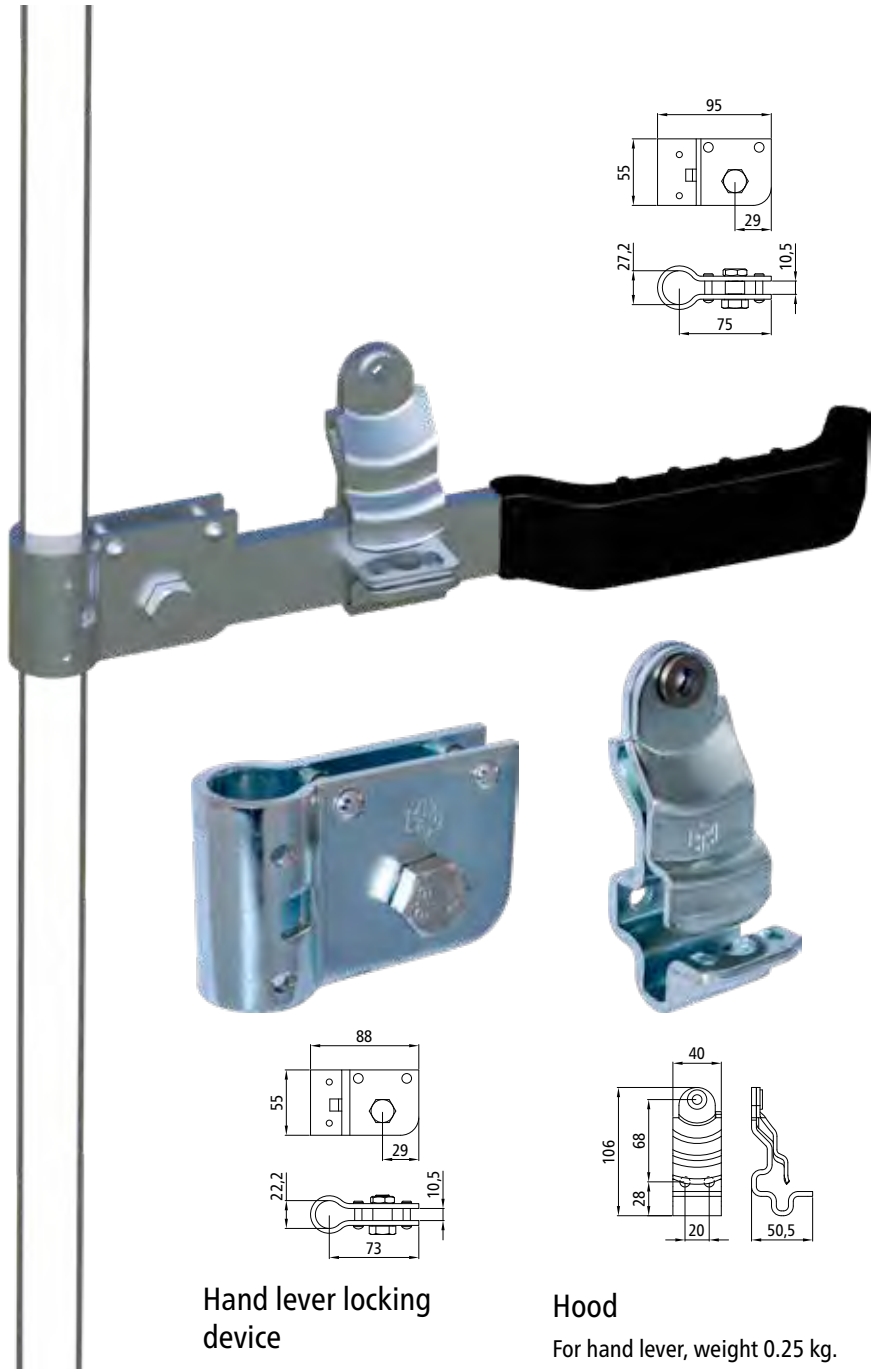
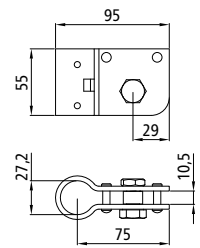
Item number	Version
108071279	Zinc plated steel
108071278	Nirosta



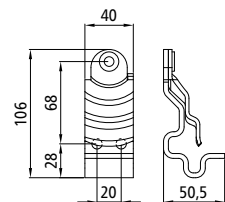
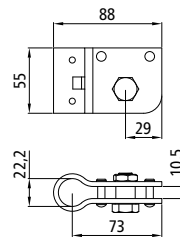
Hand lever locking set Ø 27 mm

Consisting of hand lever locking device for Ø 27 mm locking bars and hoods 108071667, all parts zinc plated, weight 0.63 kg.

108071562



With cut-out for locking with a padlock.



Hand lever locking device

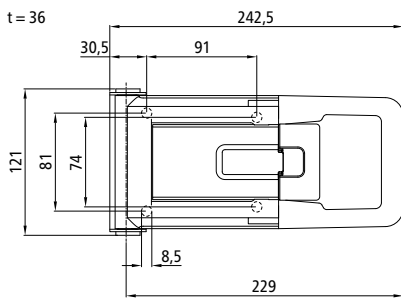
For Ø 22 mm locking bar, weight 0.36 kg.

Item number	Version
108071666	Zinc plated steel
108071664	Nirosta

Hood

For hand lever, weight 0.25 kg.

Item number	Version
108071667	Zinc plated steel
108071382	Nirosta

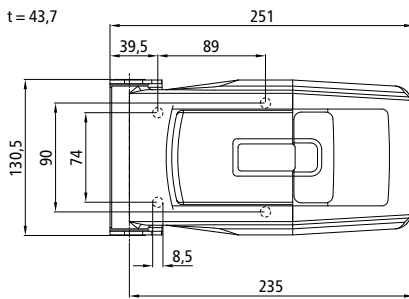


**Locking bar fastener
Ø 16 mm**

External, lockable locking bar fastener for Ø 16 mm locking bar, Nirosta. Delivery includes integrated cylinder lock with 2 keys, weight 1.01 kg.

Suitable external locking sets:
108071540 and 108071542.

108071669

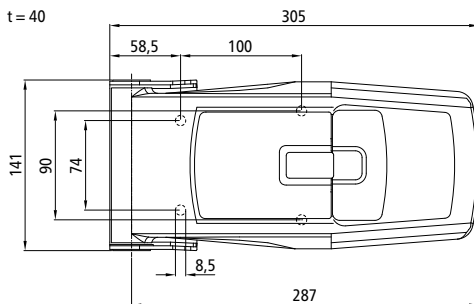


**Locking bar fastener
Ø 22 mm**

External, lockable locking bar fastener for Ø 22 mm locking bar, Nirosta. Delivery includes integrated cylinder lock with 2 keys, weight 1.53 kg.

Suitable external locking sets:
108071680 and 108071690.

108071685

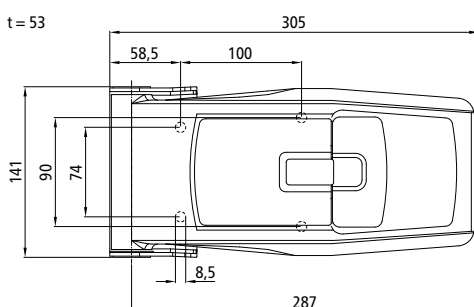


**Locking bar fastener
Ø 27 mm**

External, lockable locking bar fastener for Ø 27 mm locking bar, Nirosta. Delivery includes integrated cylinder lock with 2 keys, weight 2.15 kg.

Suitable external locking sets:
108071692 and 108071659.

108071691



**Locking bar fastener
Ø 27 mm**

External, lockable locking bar fastener for Ø 27 mm locking bar, Nirosta. Delivery includes integrated cylinder lock with 2 keys, weight 2.12 kg.

Suitable external locking sets:
108071692 and 108071659.

108071689

Integrated cylinder lock

A cylinder lock is integrated into all of the locking bar fasteners on this page and the previous page. The lock must always be locked while on the road, in order to the doors from accidentally opening while underway.

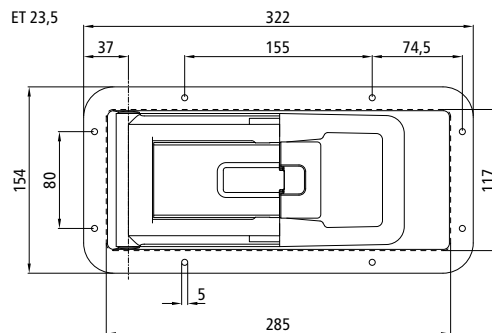


The optionally available unlock mechanism **108071434** allows the internal opening of all of the locks on these two pages.

Locking bar fastener Ø 16 mm

Internal, lockable locking bar fastener for Ø 16 mm locking bar with 23.5 mm installation depth, Nirosta. Delivery includes integrated cylinder lock with 2 keys, weight 1.29 kg.

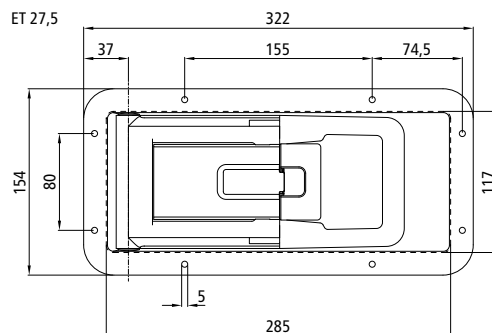
108071660



Locking bar fastener Ø 16 mm

Internal, lockable locking bar fastener for Ø 16 mm locking bar with 27.5 mm installation depth, Nirosta. Delivery includes integrated cylinder lock with 2 keys, weight 1.29 kg.

108071694



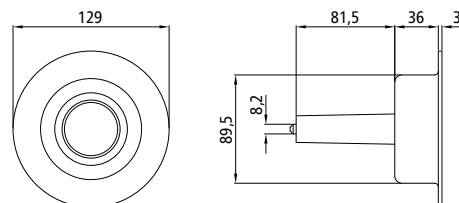
In order to install the internal lock release, the seating must be inserted into the inside of the door. Then, depending on the thickness of the door, the tube on the open side and the bolt must be shortened until the end of the tube comes into contact with the bottom of the lock.

Suitable for locks **108071660**, **108071669**, **108071685**, **108071689**, **108071691** and **108071694**.

Internal lock release

Complete grip for opening from the inside, weight 0.15 kg.

108071434



Replacement parts for locking bar fasteners

Not shown. Further replacement parts on request.

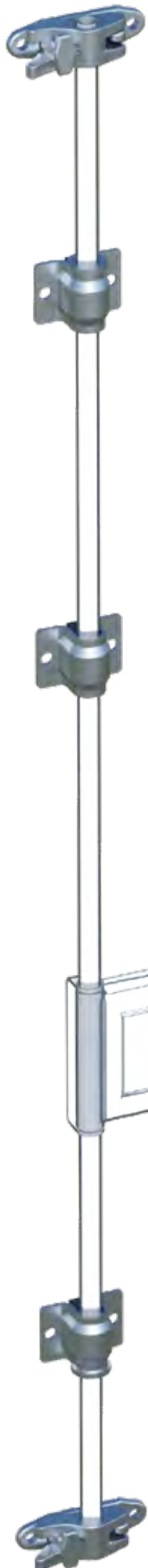
Item number	Name	Suitable for locking bar fastener
108071332	Lock latch for cylinder lock	108071660 108071685 108071694
108071100	Locking cylinder 90°, lock number PA 01	108071660, 108071669, 108071685, 108071689, 108071691, 108071694
108071755	Locking cylinder 90°, lock number PA 04	108071660, 108071669, 108071685, 108071689, 108071691, 108071694
108071100	Locking cylinder 90°, lock number PA 06	108071660, 108071685, 108071689, 108071691, 108071694
108071802	Locking cylinder 90°, lock number PA 07	108071660, 108071685, 108071689, 108071691, 108071694
108071800	Locking cylinder 90°, lock number PA 08	108071660, 108071685, 108071689, 108071691, 108071694
108071814	Locking cylinder 90°, lock number PA 09	108071660, 108071685, 108071689, 108071691, 108071694
108071803	Locking cylinder 90°, lock number PA 10	108071660, 108071685, 108071689, 108071691, 108071694
108071819	Flap/lock cover	108071660, 108071669, 108071694
108071777	Flap/lock cover	108071689, 108071691
108071776	Locking handle return spring, length 107 mm	108071685, 108071689, 108071691
108071722	Locking handle return spring, length 109 mm	108071660 108071669 108071694
108071748	Spring for actuator (locking device)	108071660 108071669 108071694



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**External fastening set
Ø 16 mm**

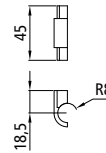
Weight 1.05 kg.
Consisting of:
2 × Counterholders,
2 × Clamping pins,
2 × Antirack discs,
6 × Nylon half bushings,
3 × Tube guide
The external fastening set can be mounted on the left or right. Locking bar/tube or fastener not included.

Item number	Version
108071542	Zinc plated steel
108071540	Nirosta



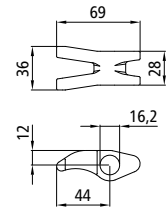
Antirack discs

Weight 0.01 kg.
Item number Version
108071301 Nirosta



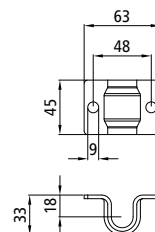
Nylon half bushing

Weight 0.008 kg.
Requires 2 pieces/tube guide.
108071287



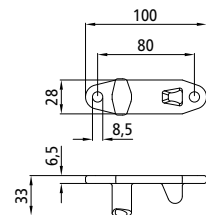
Clamping pins

Weight 0.14 kg.
Item number Version
108071621 Nirosta



Tube guide

Weight 0.10 kg.
Item number Version
108071304 Zinc plated steel
108071303 Nirosta



Counterholder

Weight 0.19 kg.
Item number Version
108071622 Nirosta

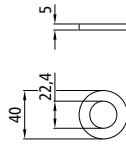
The illustrations on this page are based on the zinc plated version of the external fastening set.



Nylon bushing Ø 22 mm

Weight 0.002 kg.

108071684



Antirack discs

Weight 0.03 kg.

Item number	Version
108071309	Zinc plated steel
108071308	Nirosta

External fastening set

Ø 22 mm - BIG 6

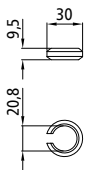
Weight 1.85 kg.

Consisting of:

- 2 × Counterholders,
- 2 × Clamping pins,
- 2 × Antirack discs,
- 3 × Nylon bushings,
- 3 × Tube guide

The external fastening set can be mounted on the left or right. Locking bar/tube or fastener not included.

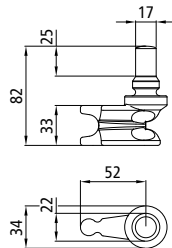
Item number	Version
108071680	Zinc plated steel
108071690	Nirosta



Nylon bushing

Weight 0.004 kg.

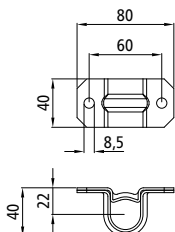
108071410



Clamping pins

Weight 0.34 kg.

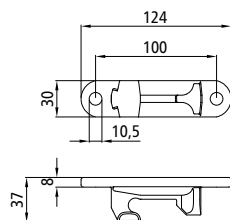
Item number	Version
108071350	Zinc plated steel
108071415	Nirosta



Tube guide

With underlay, weight 0.13 kg.

Item number	Version
108071683	Zinc plated steel
108071411	Nirosta



Counterholder

Weight 0.35 kg.

Item number	Version
108071719	Zinc plated steel
108071414	Nirosta

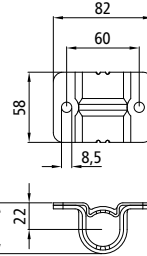


**External fastening set
Ø 27 mm - BIG 4**

Weight 3.25 kg.
Consisting of:
2× Counterholders,
2× Clamping pins,
2× Antirack discs,
5× Nylon bushings,
1× Tube guide, small,
2× Tube guide, medium
The external fastening set can be mounted on the left or right.
Locking bar/tube or fastener not included.

Item number	Version
108071692	Zinc plated steel
108071659	Nirosta

The illustrations on this page are based on the Nirosta version of the external fastening set.



Tube guide, small

With underlay, weight 0.25 kg.

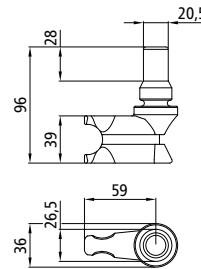
Item number	Version
108071658	Nirosta



Nylon bushing Ø 27 mm

Weight 0.002 kg.

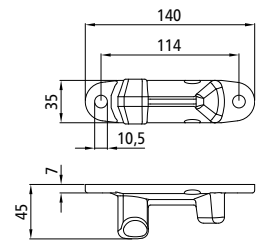
108071388



Clamping pins

Weight 0.53 kg.

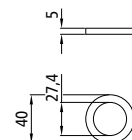
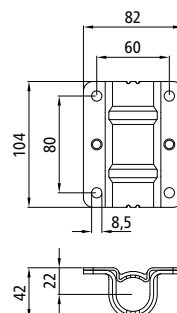
Item number	Version
108071596	Nirosta



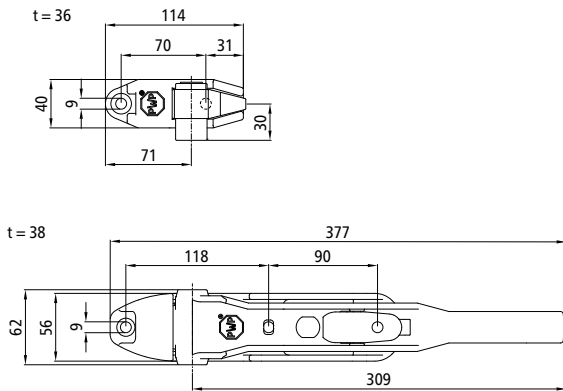
Counterholder

Weight 0.52 kg.

Item number	Version
108071597	Nirosta



Illustrations on the left and above:
Dimensions of the medium tube guide
and antirack discs



PWP Boxer II

Recessed locking bar fastener for Ø 18 mm locking bar, zinc plated steel, weight 3.04 kg.

105102698

Cylinder lock

Accessory for Boxer locking barn fastener.

105102702



Hooking pocket - PWP Boxer II

Pos. 1, replacement part, zinc plated steel.

643019661

Hook - PWP Boxer II

Pos. 2, for locking bar Ø 18 mm, replacement part, zinc plated steel.

643019624

Gripping pocket - PWP Boxer II

Pos. 3, replacement part, zinc plated steel.

643119066

Locking handle PWP Boxer II

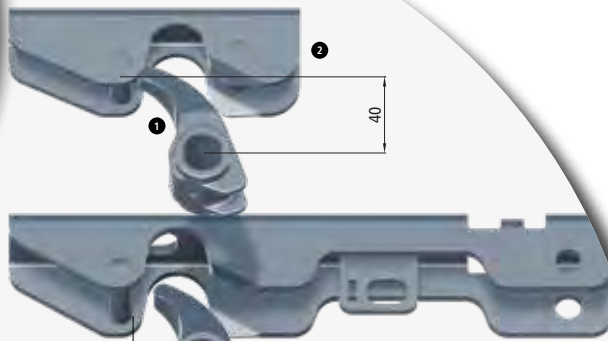
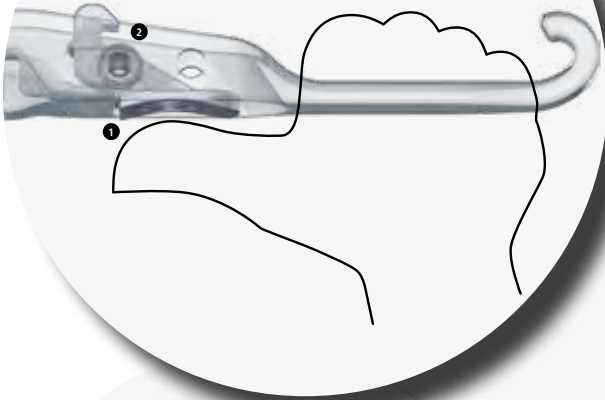
Pos. 4, for locking bar Ø 18 mm, replacement part, zinc plated steel.

643119020



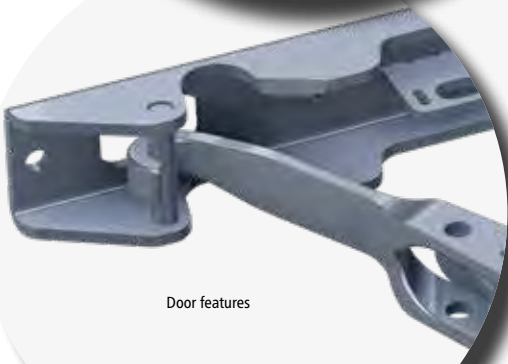


Safety button:
The ergonomically designed ❶ safety button ensures safety during opening and closure. In addition, the optimal arrangement of the safety button ensures its shockproof integration into the hand lever. The ❷ spring package incorporates an optimised design for an extended lifespan.



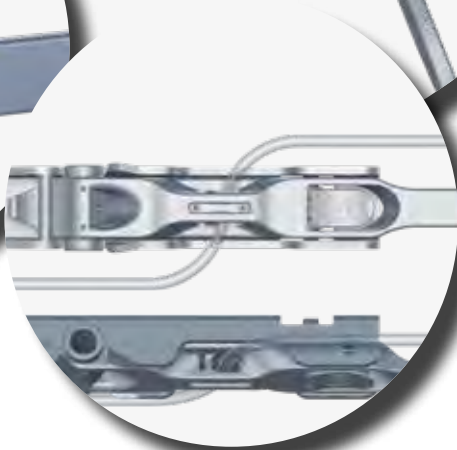
Optimised pull-in capacity:
By lengthening the ❶ upper clamping cam by 5 mm, the door in ❷ the upper counterholder is detected first. It is now easy for the operator to gently insert the ❸ hand lever into the counterholder at the bottom, and allow the door to lock in the fastener.
The fastener is pulled in by almost 40 mm in the direction of the rear portal using the newly developed, upper clamping cam.

5



Door features

Lockable:
With cut-out for locking with a padlock.



DIN EN 12642 XL

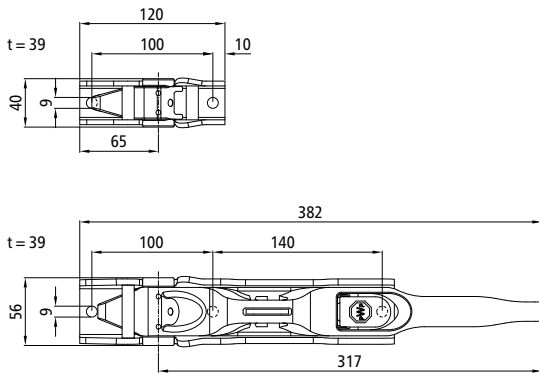


The new PWP Boxer III

The new third-generation PWP Boxer locking bar fastener, or PWP Boxer III for short, meets the latest technology and security standards. As a result, PWP Boxer III, together with the PWP Defender portal door, are certified according to DIN EN 12642 XL.

The innovative development of the new PWP Boxer III locking bar fastener means that it differs in many respects from traditional locking bar fasteners:

- Optimised pull-in capacity
- Ergonomically designed safety button
- Integrated door detection
- Customs cable version
- Lockable with a padlock



Hooking pocket PWP Boxer III

Item No. 1, hot-dip galvanised steel, weight 0.35 kg.

105103008

Hook - PWP Boxer III

Pos. 2, for locking bar \varnothing 18 mm, hot-dip galvanised steel, weight 0.19 kg.

105103007

Gripping pocket - PWP Boxer III

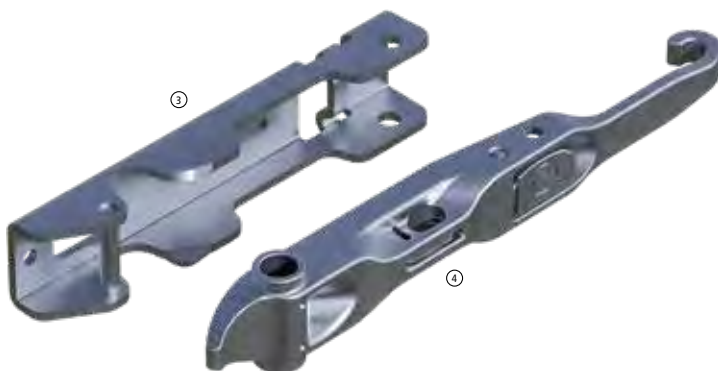
Item No. 3, hot-dip galvanised steel, weight 0.88 kg.

105103006

Locking handle PWP Boxer III

Pos. 4, for locking bar \varnothing 18 mm, hot-dip galvanised steel, weight 1.18 kg.

105103005





You will find the right PWP double jointed door hinge with surround for a side board door on page 104.

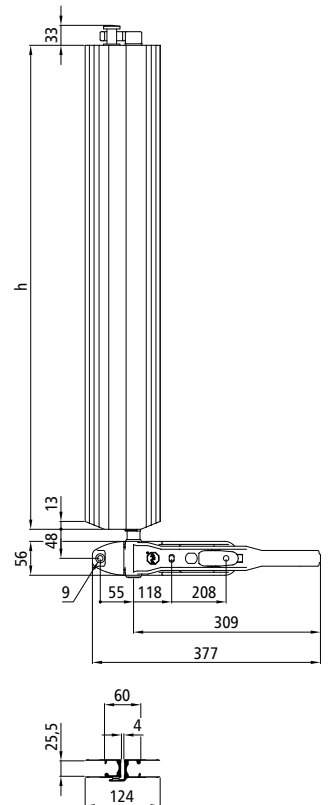


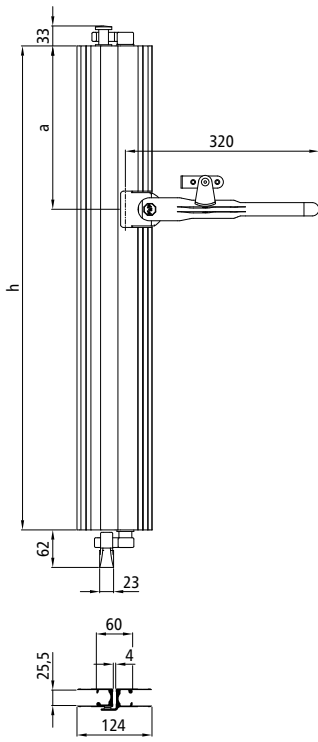
PWP Boxer II locking bar fastener

With aluminium surround profiles.

For mounting an overlying, 2-wing side board door.

Item number	Dim. h [mm]	Version	Weight [kg]
105105424	600	Weld-on door lock recess plate, raw surround	5.01
105105434	600	Screw-on door lock recess plate, anodised surround	5.01
105105426	800	Weld-on door lock recess plate, raw surround	5.21
105105435	800	Screw-on door lock recess plate, anodised surround	5.21





PWP Container locking bar fastener

With aluminium surround profiles.
For mounting an overlying, 2-wing side board door.

Item number	Dim. h [mm]	Dim. a [mm]	Version	Weight [kg]
105104621	600	270	Raw surrounds	4.92
105104623	800	270	Raw surrounds	5.31

When opening and closing a PWP Container locking bar fastener, the keeper pocket needs more room than there is available between the weld-on bolts and the floor frame. A window must therefore be cut in the outer frame when installing the weld-on bolts.

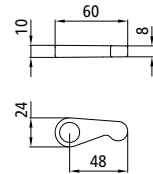
You will find the right PWP double jointed door hinge with surround for a side board door on page 104.



Wedge

For locking bar Ø15 - 16 mm,
left = right, Nirosta,
weight 0.07 kg.

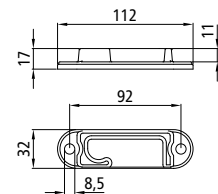
108071403



Counterholder

For wedge 108071403, Nirosta,
weight 0.22 kg.

Item number	Version
108071400	left
108071399	right

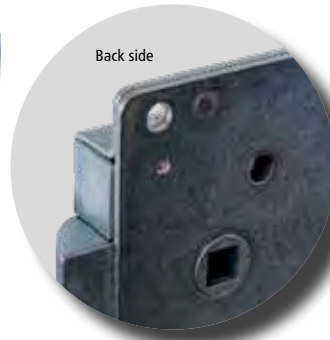
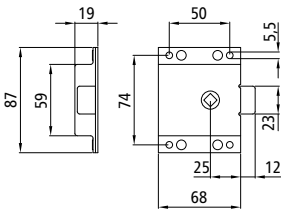


Illustrations: Left-hand version

Locking bars/tubes for locking bar fasteners

Item number	Ø [mm]	Length [mm]	Version	Weight [kg]
108071300	16×2.0	2500	Zinc plated steel	1.73
108071312	16×2.0	2500	Nirosta	1.73
105102784	18	3265	Zinc plated steel	6.52
108071339	22×2.0	2500	Nirosta, polished	2.45
108071314	22×2.0	3000	Zinc plated steel	3.00
108071654	22×2.0	3000	Nirosta	2.95
108071570	27×2.5	2600	Nirosta	3.93
108071604	27×2.5	3000	Nirosta	4.45



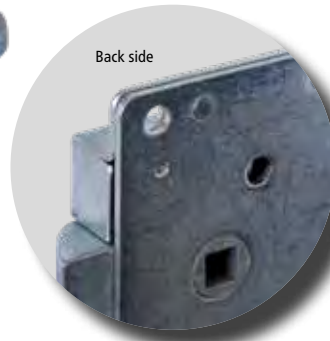
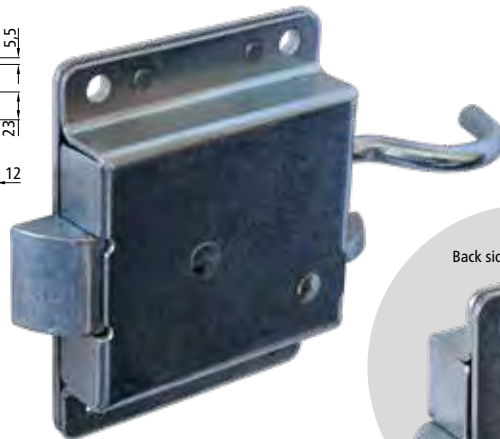
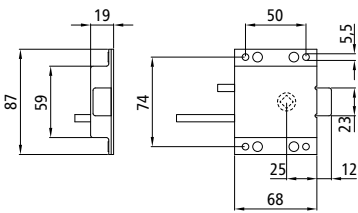


Slam lock 1331

8 mm square holes on both sides, zinc plated steel, weight 0.30 kg.

The slam lock can be opened from inside or outside using the Tee key 215102422 or exterior handle 215102426. It can be locked against unauthorised entry from outside.

215102421

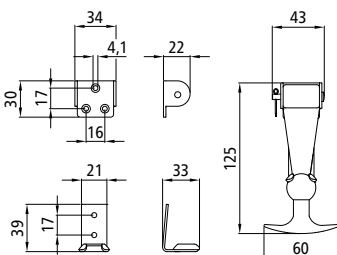
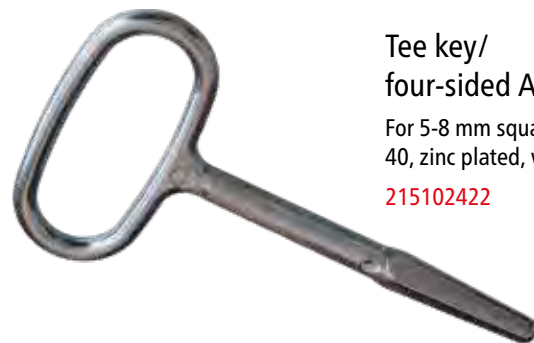


Slam lock 1331 ZN

8 mm square hole on rear side, with pull lever and interior fastening thanks to a safety lever, zinc plated steel, weight 0.33 kg.

Caravan lock with interior fastening.

215102423



Hood holder

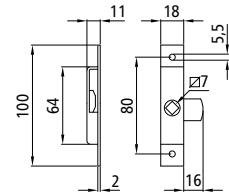
Zinc plated steel parts, weight 0.09 kg.

215101396

Rubber hook

Pos. 1, replacement part for hood holder.

215101815

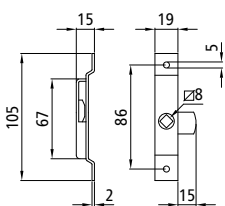


Budget lock 100 × 18

Weight 0.07 kg.

Item number	Version
215102419	Zinc plated
215102718	Black, zinc plated

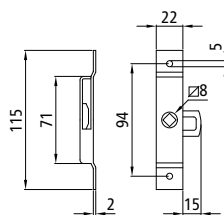
All budget locks can be used for left and right handing.



Budget lock 105 × 19

Zinc plated steel, weight 0.08 kg.

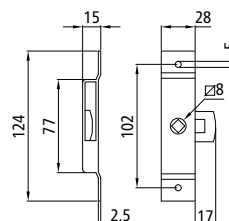
108071012



Budget lock 115 × 22

Weight 0.10 kg.

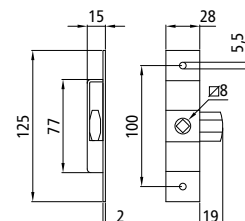
Item number	Version
108071013	Zinc plated
215102552	Nirosta



Budget lock 124 × 28

Nirosta, weight 0.16 kg.

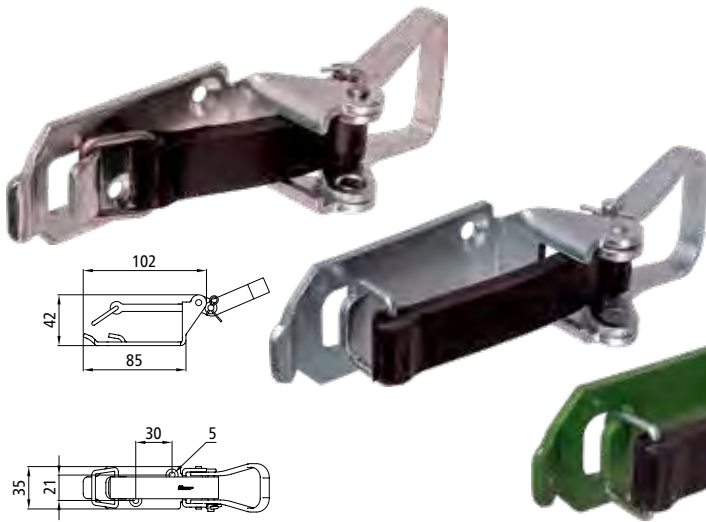
215102553



Budget lock 125 × 28

Zinc plated steel, weight 0.16 kg.

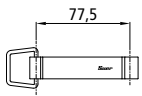
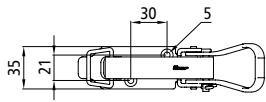
215102420



Latch fastener according to VG 75073/Spade keeper

2 clamping positions, weight 0.15 kg.

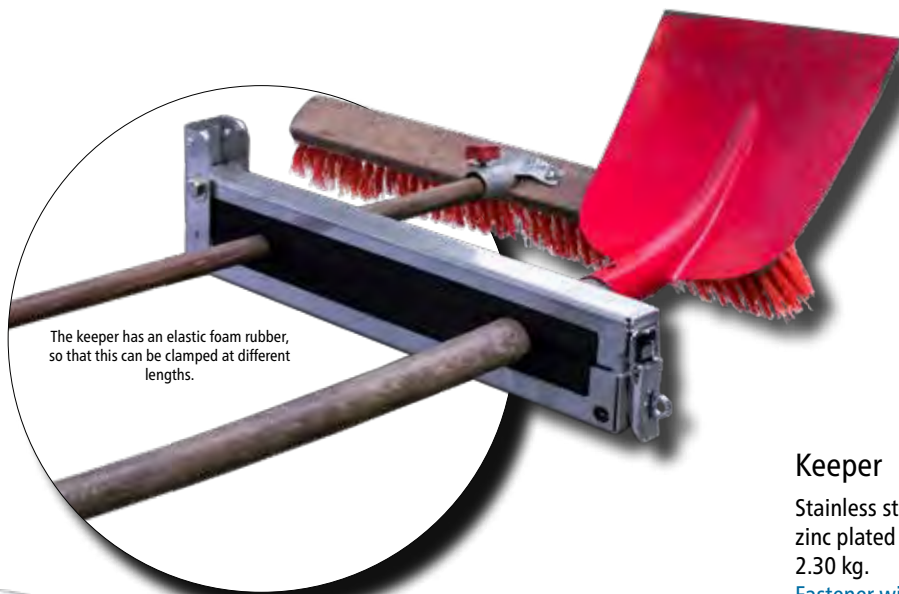
Item number	Clamping band [mm]	Version
215131719	60	Zinc plated steel parts
215131718	77.5	Zinc plated steel parts
215131686	77.5	Green painted steel parts



Clamping band 77.5 mm

Replacement part for latch fastener.

215131808



The keeper has an elastic foam rubber, so that this can be clamped at different lengths.

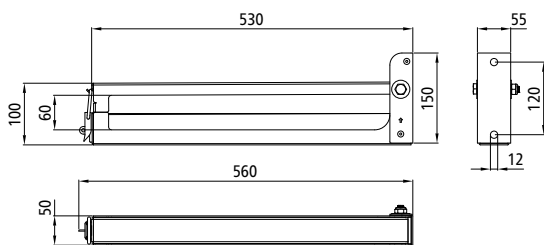
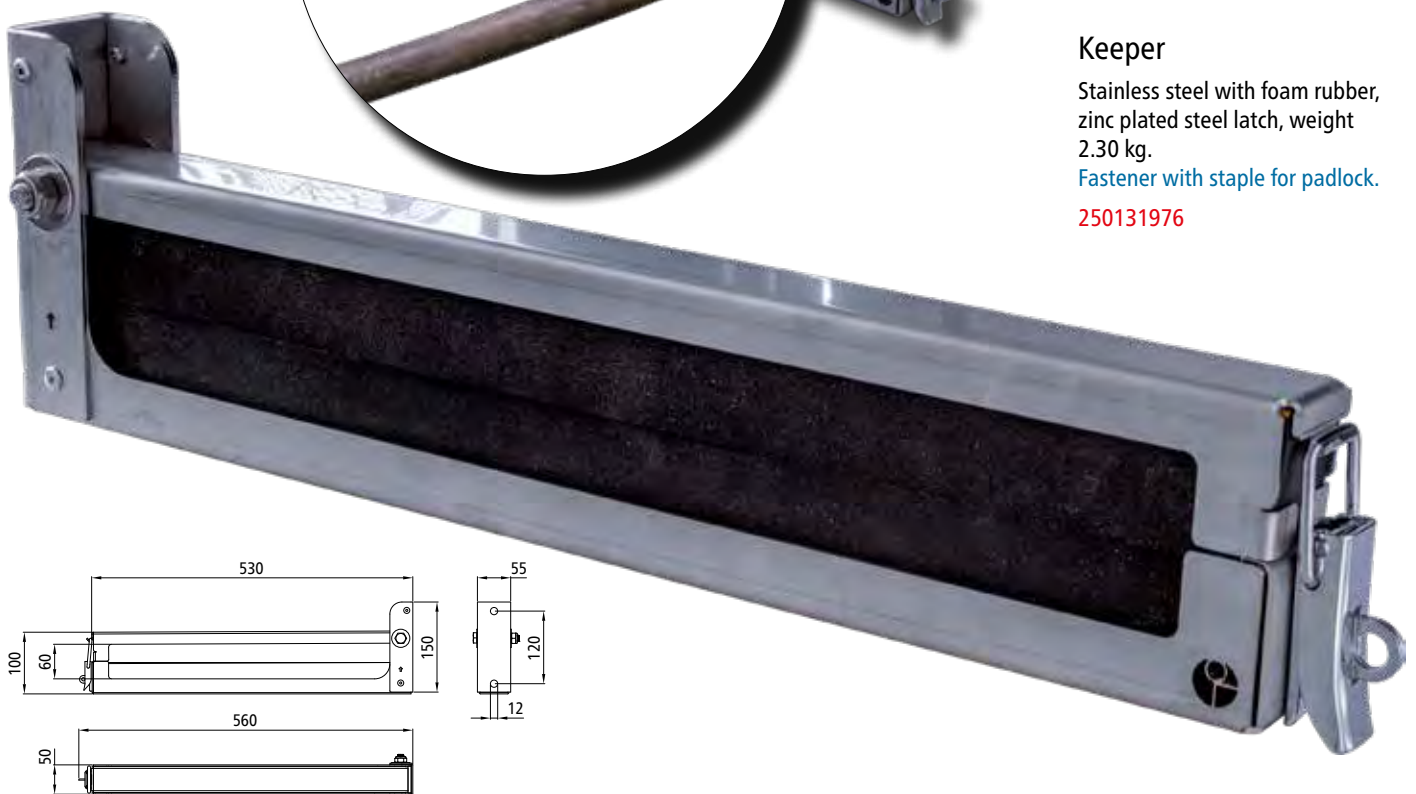


Keeper

Stainless steel with foam rubber, zinc plated steel latch, weight 2.30 kg.

Fastener with staple for padlock.

250131976



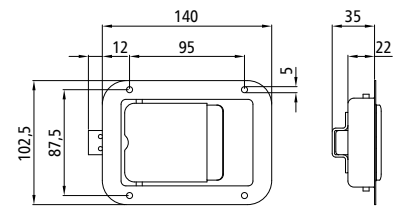
This built-in door fastener with integrated cylinder lock also includes item numbers for fasteners with a simultaneously knocking cylinder. Contact your sales consultant to find out which versions come with this feature.



Built-in door fastener

Plastic locking bolt, weight 0.38 kg.

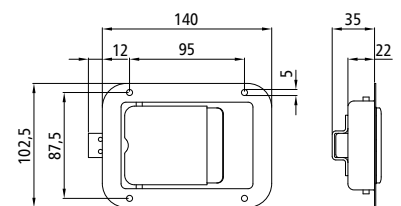
Item number	Housing
108071028	Zinc plated steel
108071026	Nirosta

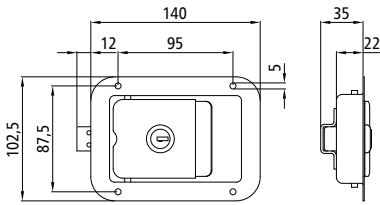


Built-in door fastener

Nirosta locking bolt and housing, weight 0.44 kg.

108071036

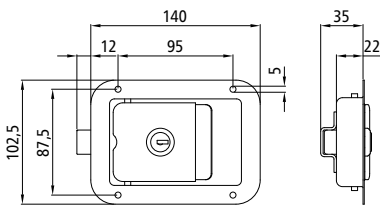




Built-in door fastener

With integrated cylinder lock and 2 keys, plastic locking bolt, weight 0.44 kg.

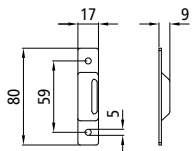
Item number	Housing
108071031	Zinc plated steel
108071027	Nirosta



Built-in door fastener

With integrated cylinder lock and 2 keys, Nirosta locking bolt, weight 0.50 kg.

Item number	Housing
108071037	Zinc plated steel
108071035	Nirosta



Counterholder

Nirosta, weight 0.03 kg.
Accessories for all built-in door fasteners.

108071030



Cylinder lock

With 2 keys, no lock tongue, similar to illustration.
Replacement part for built-in door fastener, no tongue.

Item number	Closure
108071797	3191
108071316	3193
108071927	3196
108071791	3200



Tongue for cylinder lock

Replacement part for built-in door fasteners with cylinder lock.

108071582

Surface-mounted door fastener

Pos. 1, with integrated barrel lock and 2 keys, loose base plate, stainless steel housing, weight 1.16 kg.

Please order the counterholder separately.

108071261

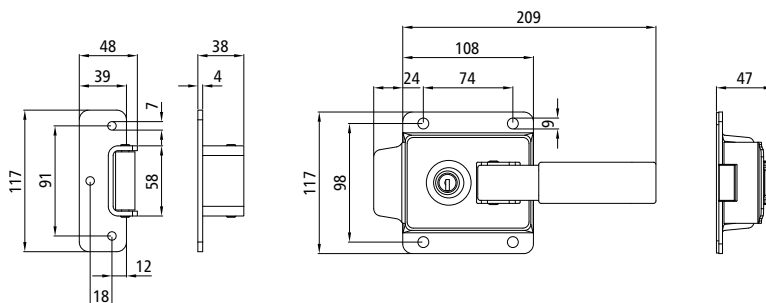


Counterholder

Pos. 2, stainless steel, weight 0.25 kg, aluminium plate weight 0.10 kg.

An aluminium plate underlay is included for 108071261.

108071662



Cylinder lock

Replacement part for surface-mounted door fastener

108071261.

108071305



Wooden filling elements

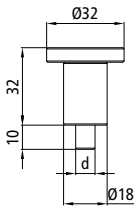
Hardwood.

Item number	Dimensions w x h x d [mm]	Remarks
500601010	200 x 80 x 16.5	For 20" aluminium profiles
500621082	200 x 35 x 21	For 25" aluminium profiles
500621084	200 x 60 x 21	For 25" aluminium profiles
500621079	200 x 67 x 21	For 25" aluminium profiles
500621083	200 x 75 x 21	For 25" aluminium profiles
500621076	200 x 77 x 21	For 25" aluminium profiles
500621080	200 x 80 x 21	For 25" aluminium profiles
500621081	2400 x 80 x 21	For 25" aluminium profiles
500621085	200 x 115 x 21	For 25" aluminium profile 621031
500621078	200 x 130 x 21	For 25" aluminium profiles
500611046	200 x 49 x 35	For 30" base board 611007
500611045	200 x 80 x 25.5	For 30" aluminium profiles
500621077	--	For 30" base board 611042

What are wood filling elements used for?

Surface mounted fasteners or hinges on hollow aluminium profiles rapidly cause gentle denting of the aluminium wall when the mounting screws are tightened. Wood filling elements are inserted into the aluminium profile chamber, close to the fastener/hinge, when the sideboard profile is assembled, to prevent any deformation of the profile wall.





Detent pin

Bolt force approx. 50 N, without detent, raw steel.

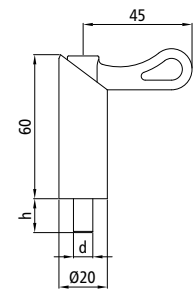
Item number	Pos.	Dim. d [mm]	Weight [kg]
215102336	1	8	0.08
215102337	2	10	0.09
215102338	3	12	0.09



Spring bolt

With detent, zinc plated steel hand lever, raw steel housing.

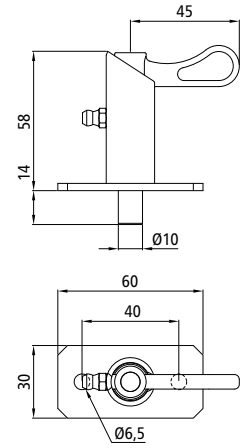
Item number	Pos.	Dim. d [mm]	Dim. h [mm]	Weight [kg]
215102330	1	8	14	0.11
215102331	2	10	10	0.12
215102332	3	10	14	0.12
215102333	4	12	14	0.12
215102334	5	15	14	0.13



PWP spring bolt

With detent, grease nipple and screw-on mounting plate, zinc plated steel, weight 0.17 kg.

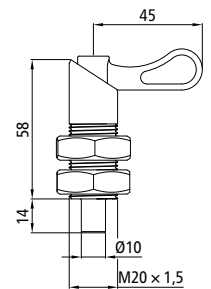
105102712



Spring bolt SG 1014

With detent, outer sleeve threaded M20 × 1.5, zinc plated steel, weight 0.18 kg.

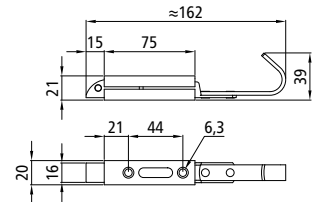
215102717



Spring bolt 1333

Without detent, zinc plated steel, weight 0.18 kg.

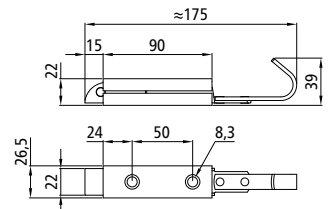
215102424



Spring bolt 1334

Without detent, zinc plated steel, weight 0.26 kg.

215102425

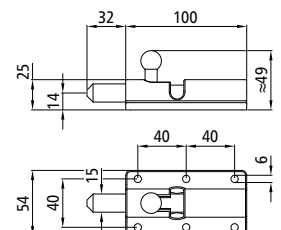


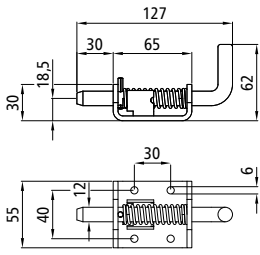
Spring bolt 740

With detent, zinc plated steel, weight 0.47 kg.

When open, the bolt pin protrudes approx. 12 mm from the housing.

215101987

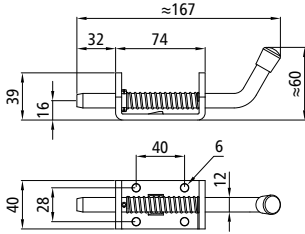




Spring bolt 3929

With detent, zinc plated steel, weight 0.33 kg.
When open, the bolt pin protrudes approx. 4 mm from the housing.

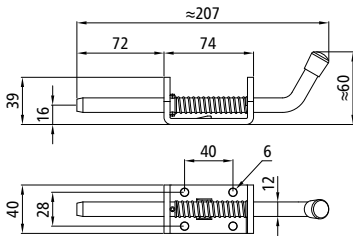
103102508



Spring bolt

With detent, weight 0.35 kg.
When open, the bolt pin protrudes approx. 1 mm from the housing.

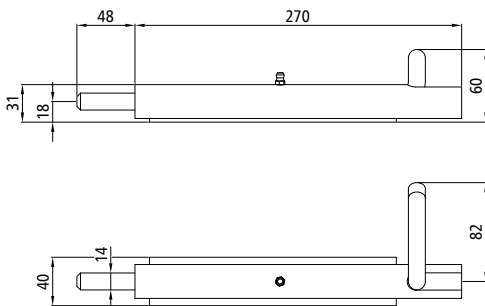
Item number	Housing
108071478	Zinc plated steel
108071064	Nirosta



Spring bolt

With detent, weight 0.38 kg.
When open, the bolt pin protrudes approx. 42 mm from the housing.

Item number	Housing
108071067	Zinc plated steel
108071605	Nirosta



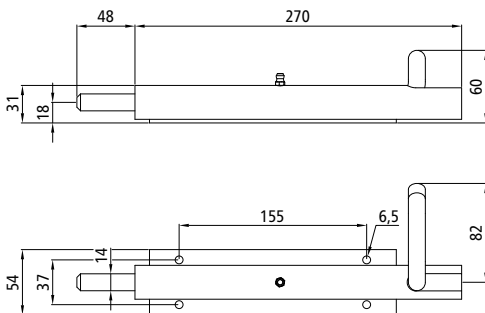
Illustrations: Left-hand version.



Spring bolt 2219/30

With detent, primed steel, weight 1.25 kg.
When open, the bolt pin protrudes approx. 4 mm from the housing.

Item number	Version
125101638	left
125101639	right



Illustrations: Left-hand version.



Spring bolt 2220/80

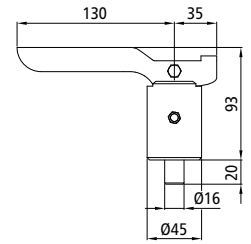
With detent, primed steel, weight 1.29 kg.
When open, the bolt pin protrudes approx. 4 mm from the housing.

Item number	Version
125101640	left
125101641	right

Spring bolt/support leg securing device

With detent and grease nipple, raw steel, weight 0.80 kg.

125511064



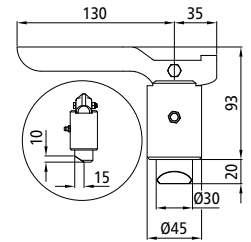
Spring bolt/support leg securing device

With detent and grease nipple, raw steel, weight 0.93 kg.

125511065



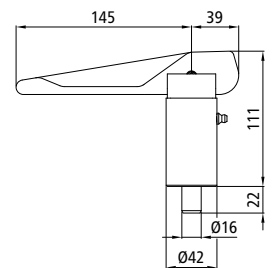
The bolt on spring bolt 125511065 is tilted to one side.



Spring bolt/support leg securing device

With detent and grease nipple, zinc plated steel hand lever and bolts, raw steel housing, weight 1.25 kg.

177511088



S-Line® spring bolt/support leg securing device

With detent, zinc plated steel hand lever, raw steel housing.

Item number	Pos.	Dim. Ø d [mm]	Weight [kg]
498511527	1	18	1.33
498511089	2	20	1.39
498511528	3	25	1.37
498511091	4	30	1.38



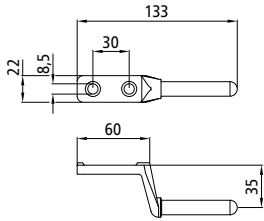


HINGES



SIDE BOARD HINGES	68
CENTRAL LOCKING DEVICES	79
ACTUATING LEVERS	79
OVERCENTRE TENSIONERS	80
CARDAN JOINTS	83
SIDE BOARD HINGES	84
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THREAD BASE PLATES	89
ANCHOR BOLTS	91
STRAIGHT DOOR HINGES	92
SIDE DOOR HINGES	94
DOOR HINGES	99
REAR DOOR HINGES	100
DOUBLE JOINTED DOOR HINGES	104
CONTINUOUS HINGES	106
FLAP HINGES	107
SIDE TIPPER HINGES	109
CONTAINER HINGE	111
HINGE BEARING EYES	112
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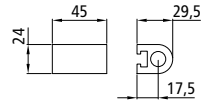
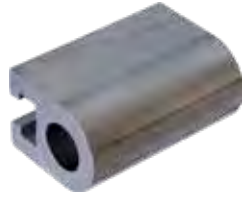
The Suer side board hinge bearing [215112044](#)
in combination with hinge pin [215112043](#).



Hinge pin 4040

Zinc plated steel,
weight 0.16 kg.

103111884



Hinge bearing 4041

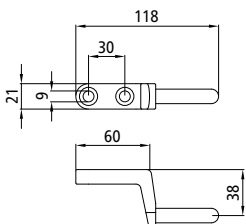
Raw aluminium, weight 0.06 kg.

With groove for head of hex
screw M8.

103111885



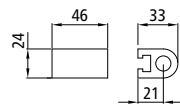
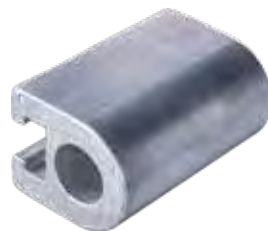
Mounting on a 25 mm aluminium (Snap-Lock) side board, for
example using threaded base plate 103111886.



Hinge pin

Zinc plated steel,
weight 0.19 kg.

21511696

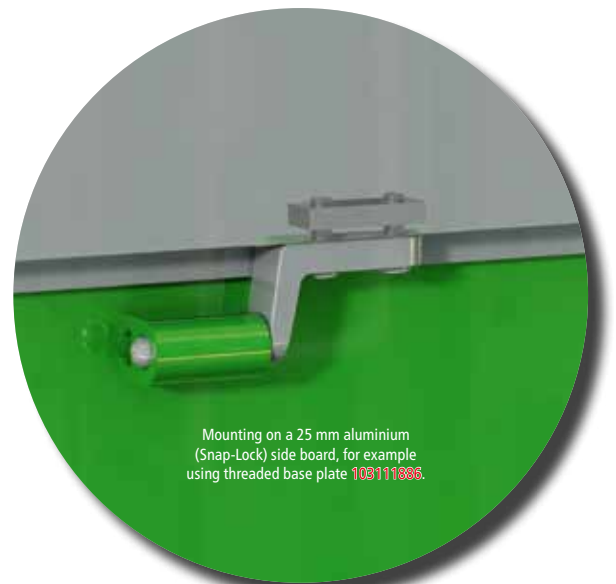


Hinge bearing

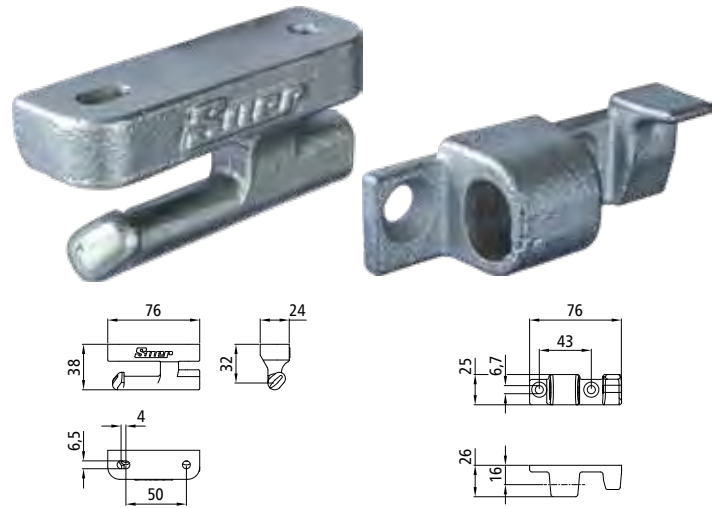
Raw aluminium, weight 0.05 kg.

With groove for head of hex
screw M8.

50011697



Mounting on a 25 mm aluminium
(Snap-Lock) side board, for example
using threaded base plate 103111886.



Hinge pin

Similar to 6572, Dacromet-coated, weight 0.17 kg.

38511817

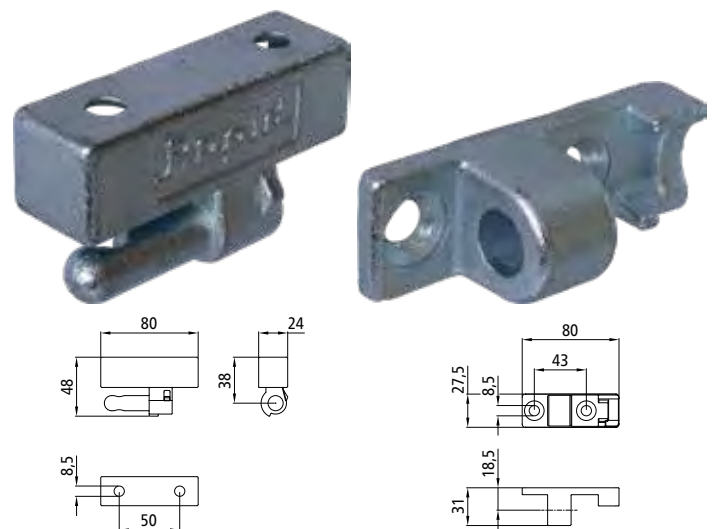
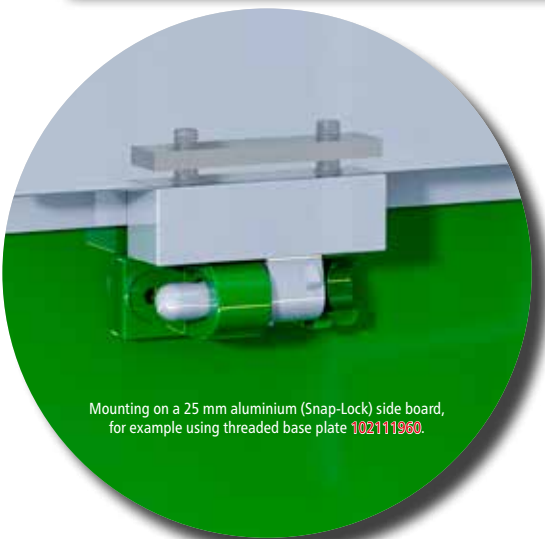
Hinge bearing

Similar to 65700, Dacromet-coated, weight 0.12 kg.

38511814

The side board hinges on these two pages are designed for installation on small flatbed vehicles and goods vehicle trailers with 20 or 25 mm aluminium side boards.

Safety hinge H 871 - KL has been classified as accident proof by the industry association, BG test certificate V 95091. In addition, it is customs-secure.



**Hinge pin
H 871 - KL**

Zinc plated steel, weight 0.24 kg.

10211959

**Hinge bearing
H 871 - KL**

Zinc plated steel, weight 0.16 kg.

10211958

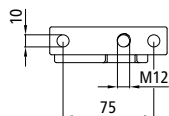
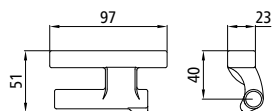


Mounting on a 25 mm aluminium (Snap-Lock) side board, for example using threaded bar [500111669](#).



Mounting on a 25 mm aluminium side board with anchor bolt, for example using threaded base plate [340111751](#).

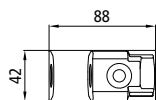
When folded down, the safety hinge H 871 - K/24 maintains a distance of 22 mm between the floor frame and 25 mm aluminium side board. The safety hinge H 871 - K/24 is customs-secure, Customs certificate no. Z 0720B-280/88-K 26. It is also considered to be accident-proof.



Hinge pin
H 871 - K/24

With thread M12 for anchor bolt, zinc plated steel, weight 0.38 kg.

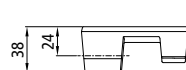
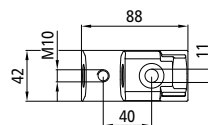
[102111853](#)



Hinge bearing
H 871 - K/24

Raw steel, weight 0.44 kg.

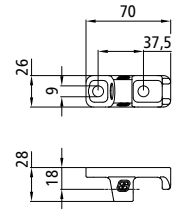
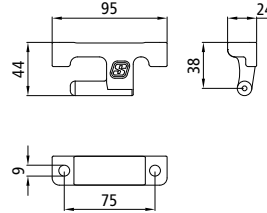
[102111854](#)



Hinge bearing
H 871 - K/24

Zinc plated steel, weight 0.43 kg.

[102111865](#)



S-Line® hinge pin

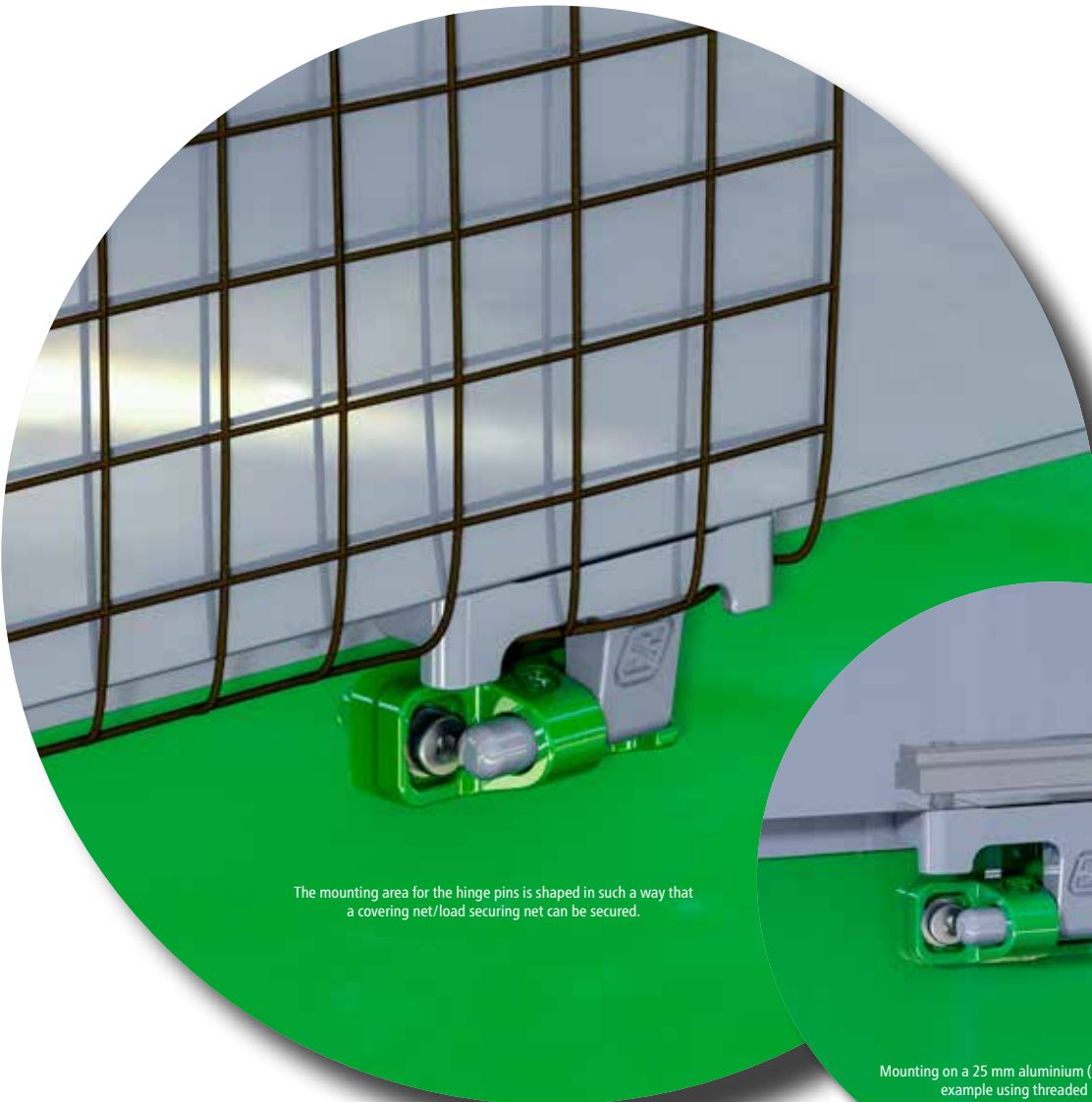
Stainless steel, weight 0.18 kg.

215112045

S-Line® hinge bearing

Stainless steel, weight 0.11 kg.

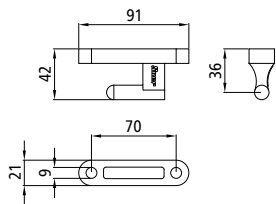
215112046



The mounting area for the hinge pins is shaped in such a way that a covering net/load securing net can be secured.



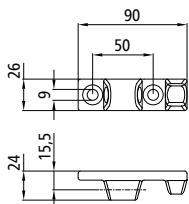
Mounting on a 25 mm aluminium (Snap-Lock) side board, for example using threaded bar 500111669.



Hinge pin

Stainless steel, weight 0.21 kg.

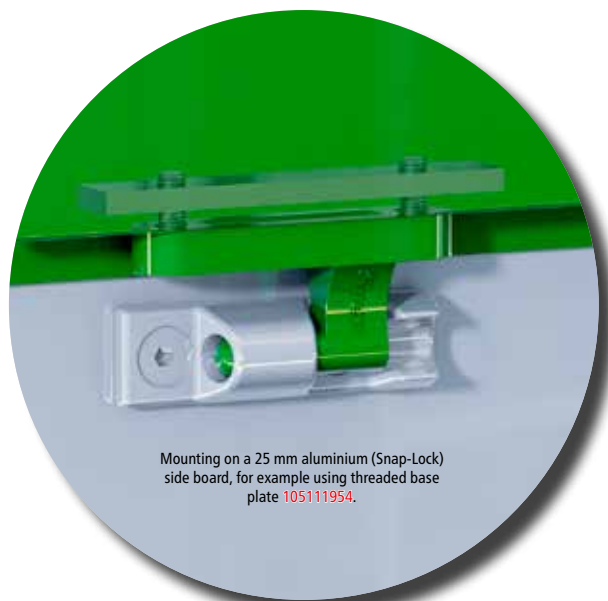
215112043



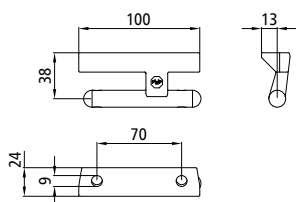
Hinge bearing

Stainless steel, weight 0.17 kg.

215112044



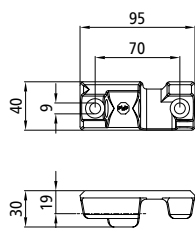
Mounting on a 25 mm aluminium (Snap-Lock) side board, for example using threaded base plate 105111954.



PWP hinge pin

Hot-dip galvanised steel, weight 0.29 kg.

105111935



PWP hinge bearing

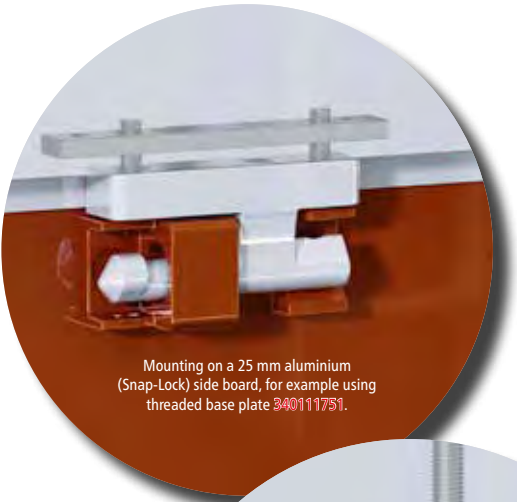
Raw steel, weight 0.32 kg.

105111933



Mounting on a 25 mm aluminium (Snap-Lock) side board, for example using threaded base plate 105111954.

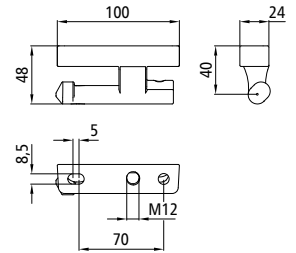
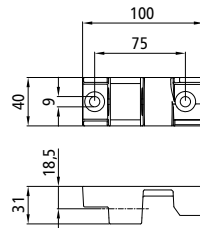




Mounting on a 25 mm aluminium (Snap-Lock) side board, for example using threaded base plate 340111751.



Mounting on a 25 mm aluminium side board with anchor bolt, for example using threaded base plate 340111751.



S-Line® hinge bearing

Similar to 6540 N/65400 N, weight 0.34 kg.

Item number Version

385111746 Raw steel

340111747 Zinc plated steel

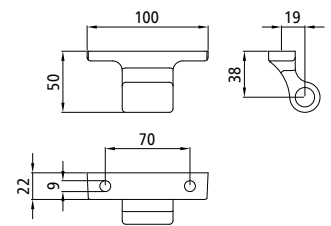
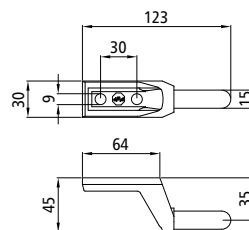
S-Line® hinge pin

Similar to 6541 N, with thread M12 for anchor bolt, zinc plated steel, weight 0.34 kg.

340111749



Mounting on a 25 mm aluminium (Snap-Lock) side board, for example using threaded base plate 105111954.



PWP hinge pin

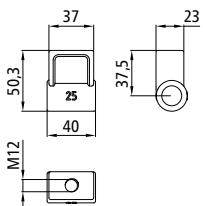
Zinc plated steel, weight 0.26 kg.

105111950

PWP hinge bearing

Zinc plated steel, weight 0.32 kg.

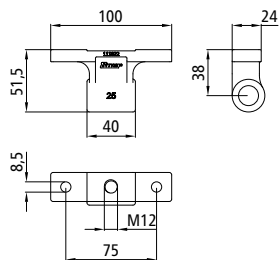
105111951



Hinge bearing C6

With thread M12 for anchor bolt, zinc plated steel, weight 0.21 kg.

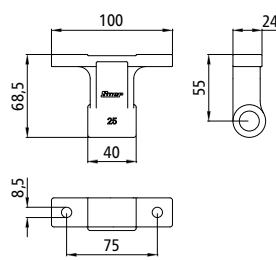
101111520



Hinge bearing 25/30

With thread M12 for anchor bolt, zinc plated steel, weight 0.36 kg.

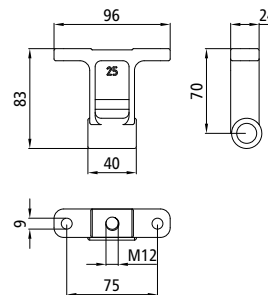
340111822



Hinge bearing H55

Zinc plated steel, weight 0.39 kg.

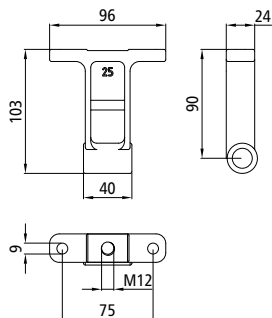
340112024



Hinge bearing H70

With thread M12 for anchor bolt, zinc plated steel, weight 0.46 kg.

102111994



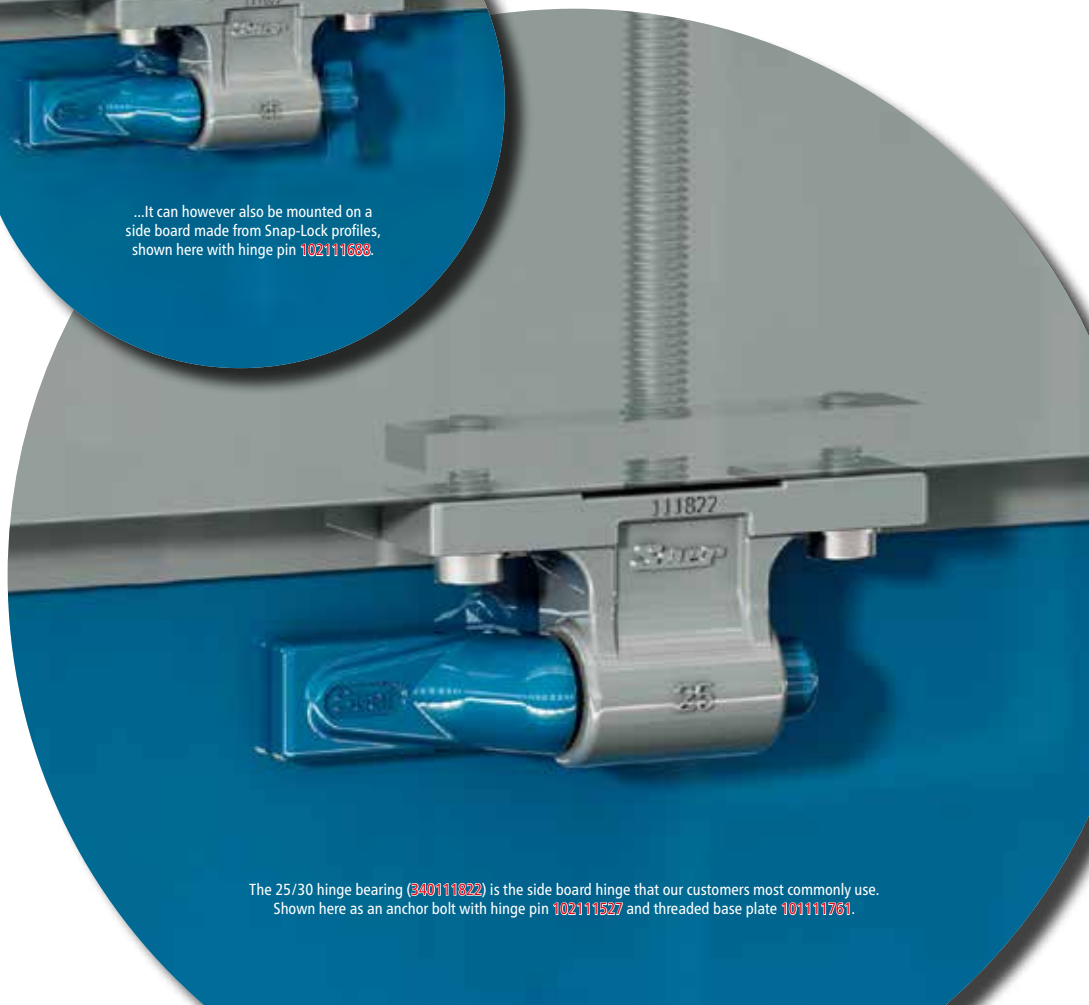
Hinge bearing H90

With thread M12 for anchor bolt, zinc plated steel, weight 0.49 kg.

102111662

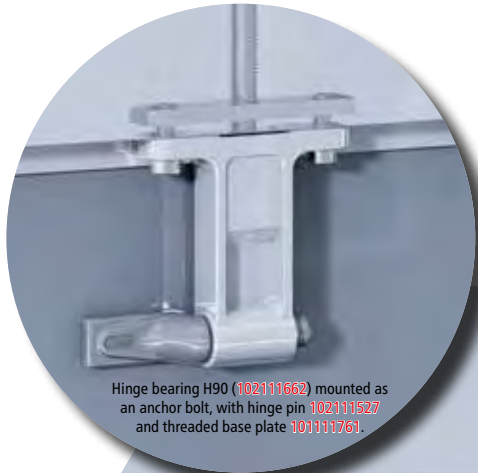


...It can however also be mounted on a side board made from Snap-Lock profiles, shown here with hinge pin 102111688.

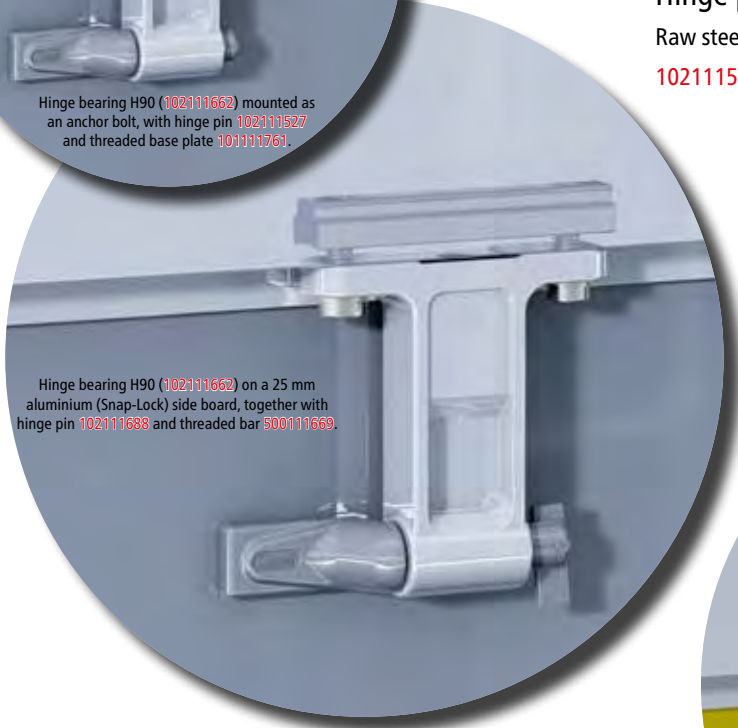


The 25/30 hinge bearing (340111822) is the side board hinge that our customers most commonly use. Shown here as an anchor bolt with hinge pin 102111527 and threaded base plate 101111761.

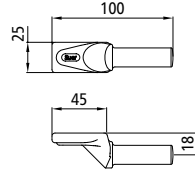
Hinge bearing for 25 and 30 mm aluminium side boards.



Hinge bearing H90 (102111662) mounted as an anchor bolt, with hinge pin 102111527 and threaded base plate 101111761.



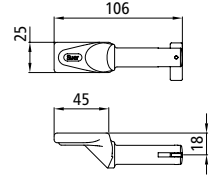
Hinge bearing H90 (102111662) on a 25 mm aluminium (Snap-Lock) side board, together with hinge pin 102111688 and threaded bar 500111669.



Hinge pin

Raw steel, weight 0.16 kg.

102111527



Hinge pin

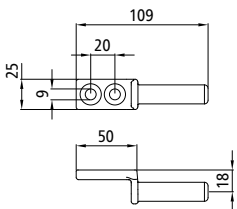
With drop-latch/tongue, raw steel, weight 0.17 kg.

102111688



Hinge bearing C6 (101111520) on a 25 mm aluminium side board with anchor bolt, together with hinge pin 340111980.

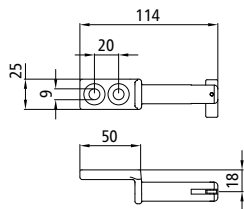
Hinge pins 605646094 and 605646095 are used on our Cargotrail aluminium flatbeds.



Hinge pin

Zinc plated steel, weight 0.16 kg.

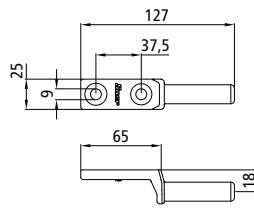
340111964



Hinge pin

With drop-latch/tongue, zinc plated steel, weight 0.16 kg.

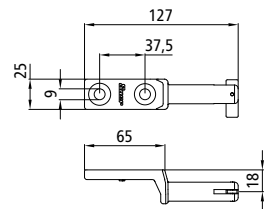
340111980



Hinge pin

Zinc plated steel, weight 0.18 kg.

605646094



Hinge pin

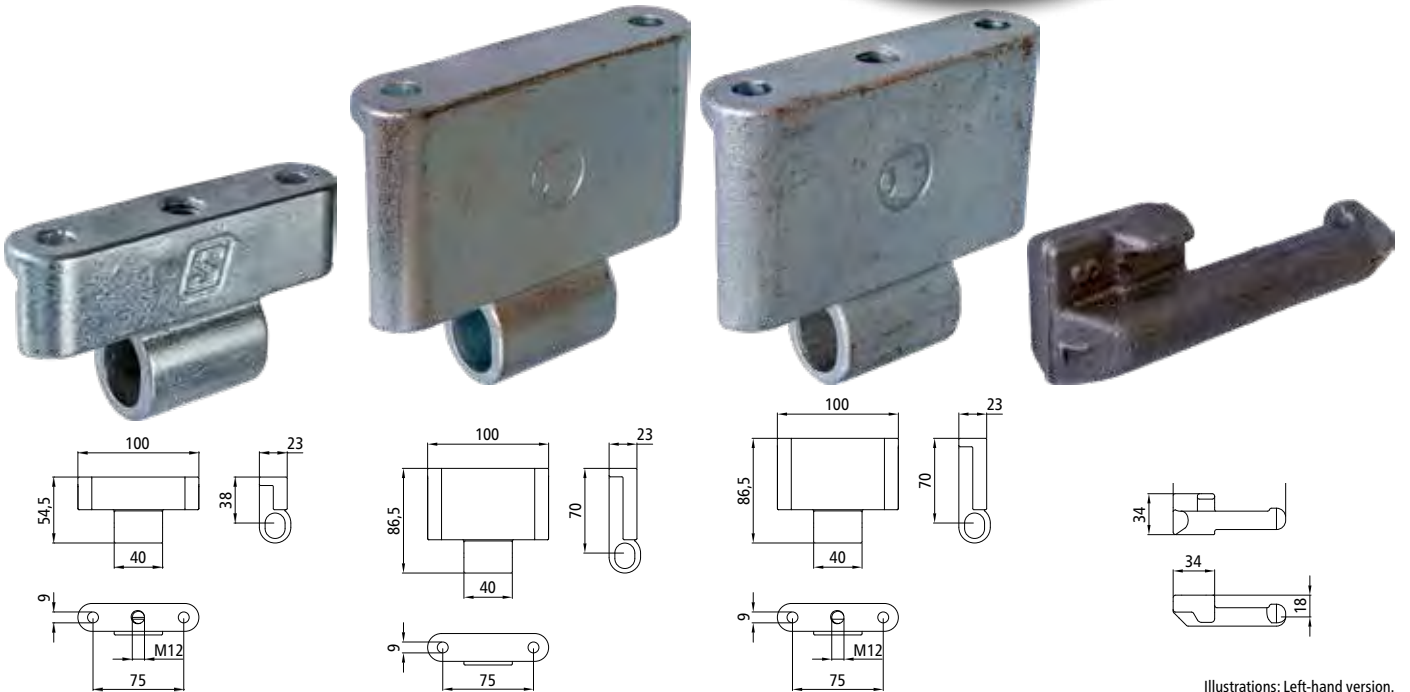
With drop-latch/tongue, zinc plated steel, weight 0.18 kg.

605646095

Hinge bearing 6561 N (101111758) on a 25 mm aluminium (Snap-Lock) side board, fitted with hinge pin 215111730 (left-hand version). Connection to the side board using threaded bar 500111669.



...alternatively with hinge bearing 6561 N (101111758) in an anchor bolt version. Connection to the side board using threaded base plate 101111761.



Illustrations: Left-hand version.

Hinge bearing

Similar to 6552 N, with thread M12 for anchor bolt, zinc plated steel, weight 0.33 kg.
 Customs-secure hinge bearing for 25 mm aluminium side boards.
 215111733

Hinge bearing 6561 N

Zinc plated steel, weight 0.48 kg.
 Customs-secure hinge bearing for 25 mm aluminium side boards.
 101111758

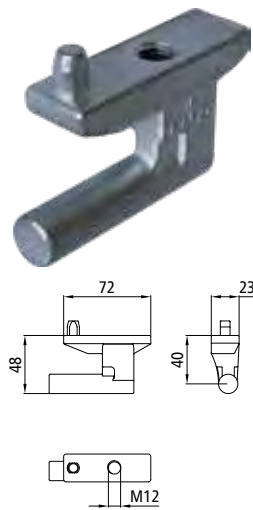
Hinge bearing 6561 N

With thread M12 for anchor bolt, zinc plated steel, weight 0.48 kg.
 Customs-secure hinge bearing for 25 mm aluminium side boards.
 101111759

Hinge pin

Similar to 6550 N, raw steel, weight 0.21 kg.

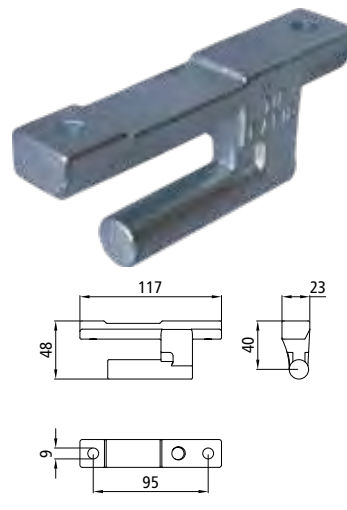
Item number	Version
215111730	left
215111731	right



Hinge pin TIR

With thread M12 for anchor bolt, zinc plated steel, weight 0.32 kg. Hinge bearing for 25 and 30 mm aluminium side boards.

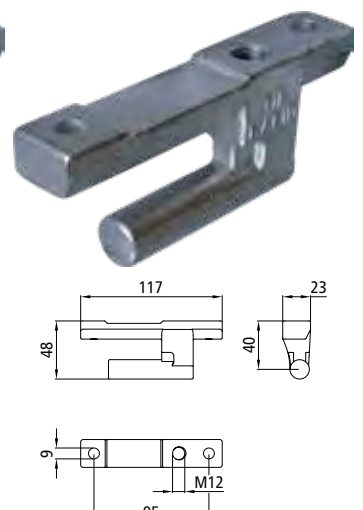
102111531



Hinge pin TIR

Zinc plated steel, weight 0.42 kg. Hinge bearing for 25 and 30 mm aluminium side boards.

102111530



Hinge pin TIR

With thread M12 for anchor bolt, zinc plated steel, weight 0.41 kg. Hinge bearing for 25 and 30 mm aluminium side boards.

102111991



Hinge pin TIR (102111531) with anchor bolt on a 25 mm aluminium side board, fitted with hinge pin 102111529.



Hinge pin TIR (102111991) with anchor bolt on a 25 mm aluminium side board, fitted with hinge pin 102111948. Also visible: threaded base plate 340111751.

Hinge pin TIR (102111530) on a 25 mm aluminium (Snap-Lock) side board, fitted with hinge pin 102111529. Connection to the side board using threaded bar 500112007.



Hinge bearing TIR

Raw steel, weight 0.32 kg.

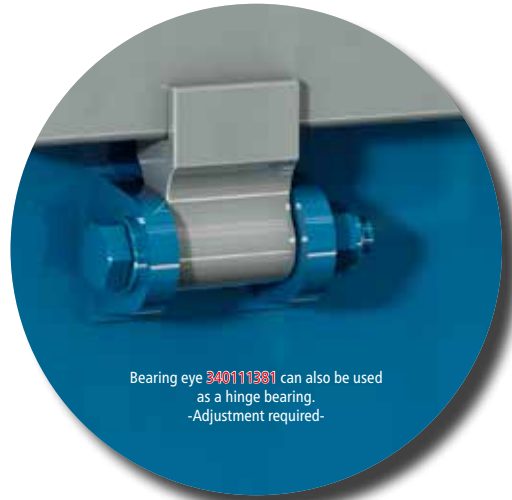
102111529



Hinge bearing TIR

Zinc plated steel, weight 0.32 kg.

102111948



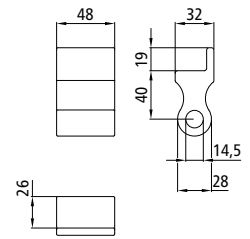
Bearing eye 340111381 can also be used as a hinge bearing.
-Adjustment required-



Hinge bearing

Raw steel, weight 0.46 kg.
Hinge for steel side boards.

340111932



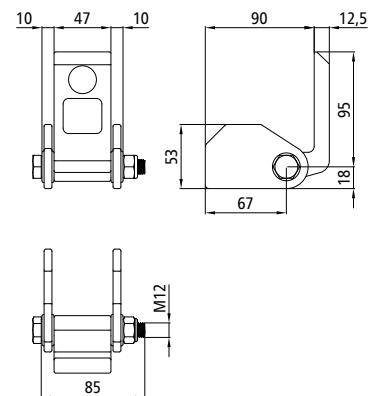
Hinge H929 mounted on steel side board, integrated into floor frame profile 372561030.

Hinge H929

Raw steel, zinc plated threaded materials, weight 1.06 kg.

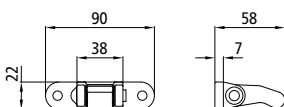
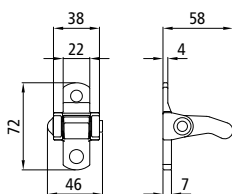
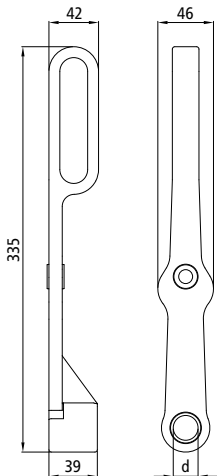
Hinge for steel side boards in combination with floor frame profile 372561030.

102102667





Actuating lever H 119 E/H 120 A guides the shaft with the locking hooks through a hole in the rear panel. The actuating lever is mounted directly onto the shaft. The illustration shows the installation principle.



Actuating lever H 119 E/H 120 A

Pos. 1, raw steel.

Please order fasteners
separately.

Item number	Dim. d [mm]	Weight [kg]
102101361	20	0.96
102101366	25	0.85

Safety latch H 119 E

Pos. 2, raw steel, weight 0.24 kg.

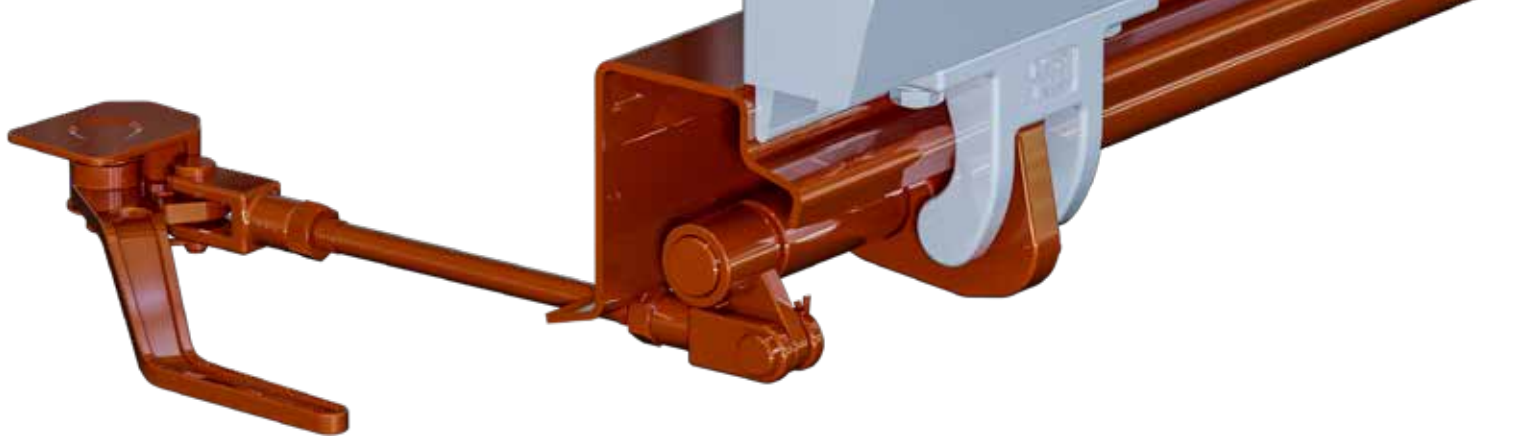
102101362

Safety latch H 119 E/Alu

Pos. 3, raw steel, weight 0.24 kg.

102101449

Overcentre tensioner H 519, light is mounted underneath the vehicle floor, and engages beneath or through a window in the outer frame with the shaft with the locking hooks.
The illustration shows the installation principle.
Illustrations: Left-hand version

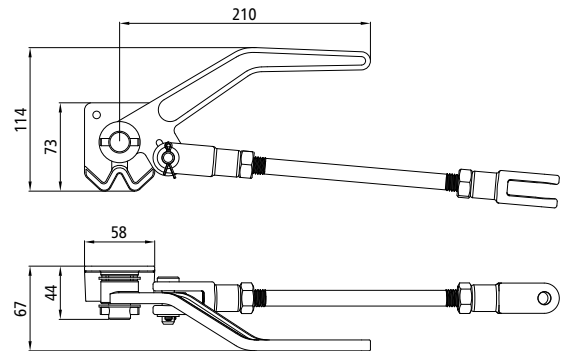


Overcentre tensioner H 519, light

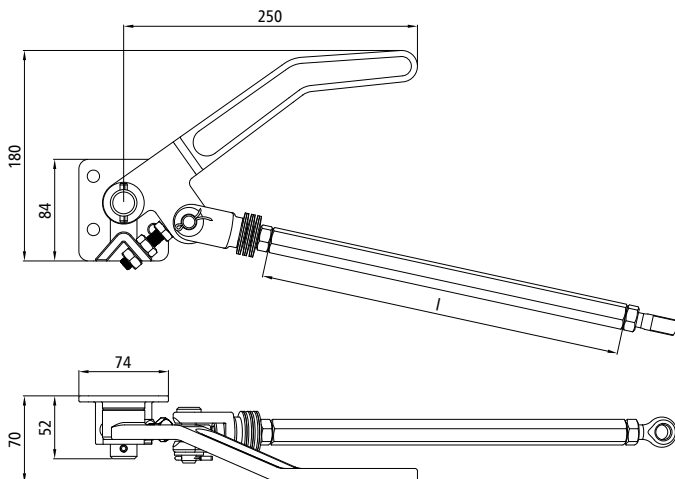
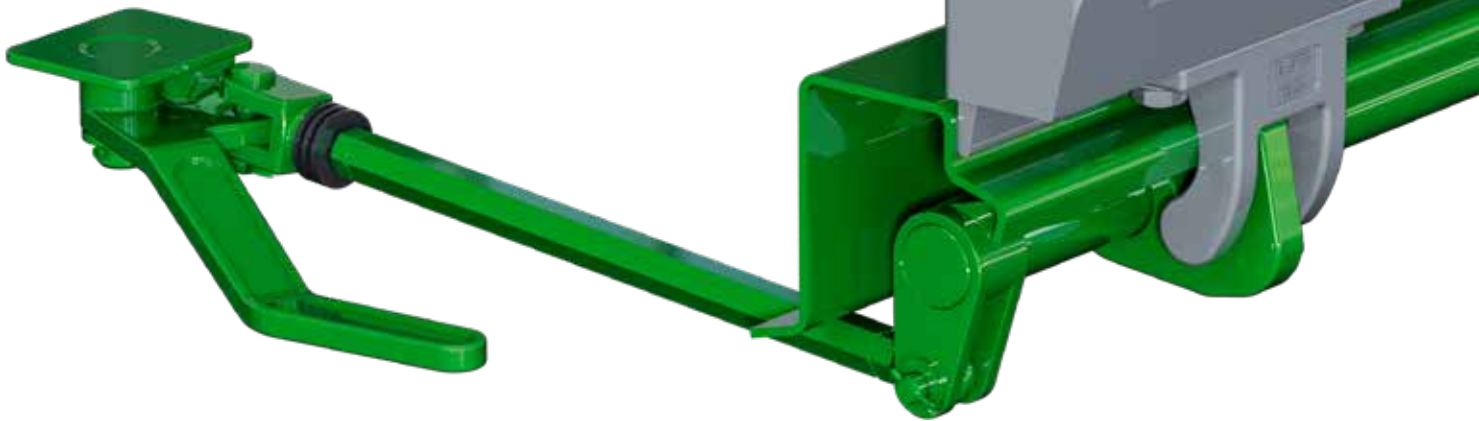
Raw steel.

For underfloor mounting, please order the cardan joint separately.

Item number	Version	Weight [kg]
102101959	left	1.29
102101960	right	1.29



Overcentre tensioner H 519 is mounted underneath the vehicle floor, and engages beneath or through a window in the outer frame with the shaft with the locking hooks. The illustration shows the installation principle. Illustrations: Left-hand version.



Overcentre tensioner H 519

Raw steel.

For underfloor mounting, please order the cardan joint separately.

Item number	Version	Dim. l [mm]	Weight [kg]
102101957	left	115	2.08
102101958	right	115	2.08
102101552	left	300	2.51
102101553	right	300	2.51

Overcentre tensioner H519 guides the shaft with the locking box through a hole in the fastener. The fastener is mounted on the rear panel.
The illustration shows the installation principle.
Illustrations: Left-hand version.

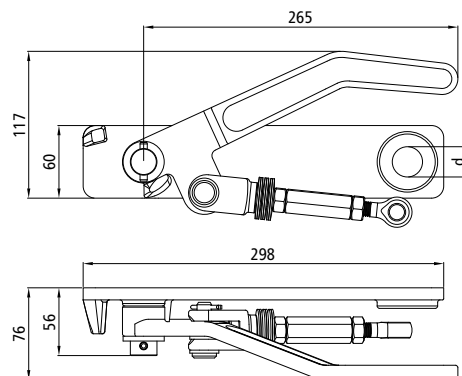


Overcentre tensioner H 519, sidemounted

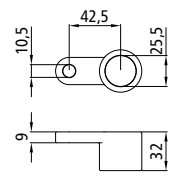
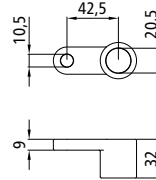
Raw steel.

Please order the cardan joint separately.

Item number	Version	Dim. d [mm]	Weight [kg]
102102473	left	20	2.78
102102474	right	20	2.78
102102475	left	25	2.76
102102476	right	25	2.76
102102477	left	30	2.73
102102478	right	30	2.73
102102479	left	35	2.69
102102480	right	35	2.69



The accessories for these Cardan joints comprise:
 1 eyebolt similar to DIN 1434-10×35, 1 plain washer DIN 1441-10 and
 1 split pin DIN 94-4×22. All parts are zinc plated.



Cardan joint Ø 20 mm

Including accessories, raw steel,
 weight 0.16 kg.

Cardan joint for overcentre
 tensioner H 519, light.

102101961

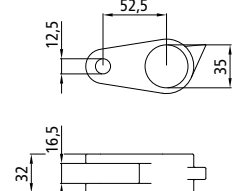
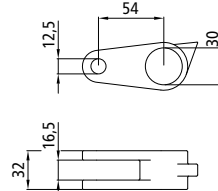
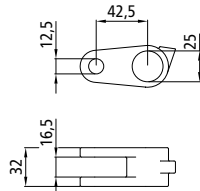
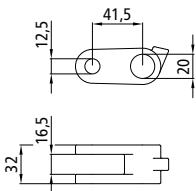
Cardan joint Ø 25 mm

Including accessories, raw steel,
 weight 0.17 kg.

Cardan joint for overcentre
 tensioner H 519, light.

102101962

The accessories for these Cardan joints comprise:
 1 eyebolt similar to DIN 1434-12×43, 1 plain washer DIN 1441-12 and 1
 split pin DIN 94-4×22. All parts are zinc plated.



Cardan joint Ø 20 mm

Including accessories, raw steel,
 weight 0.26 kg.

Cardan joint for overcentre
 tensioner H 519 and H 519, side-
 mounted.

102101554

Cardan joint Ø 25 mm

Including accessories, raw steel,
 weight 0.27 kg.

Cardan joint for overcentre
 tensioner H 519 and H 519, side-
 mounted.

102101555

Cardan joint Ø 30 mm

Including accessories, raw steel,
 weight 0.34 kg.

Cardan joint for overcentre
 tensioner H 519 and H 519, side-
 mounted.

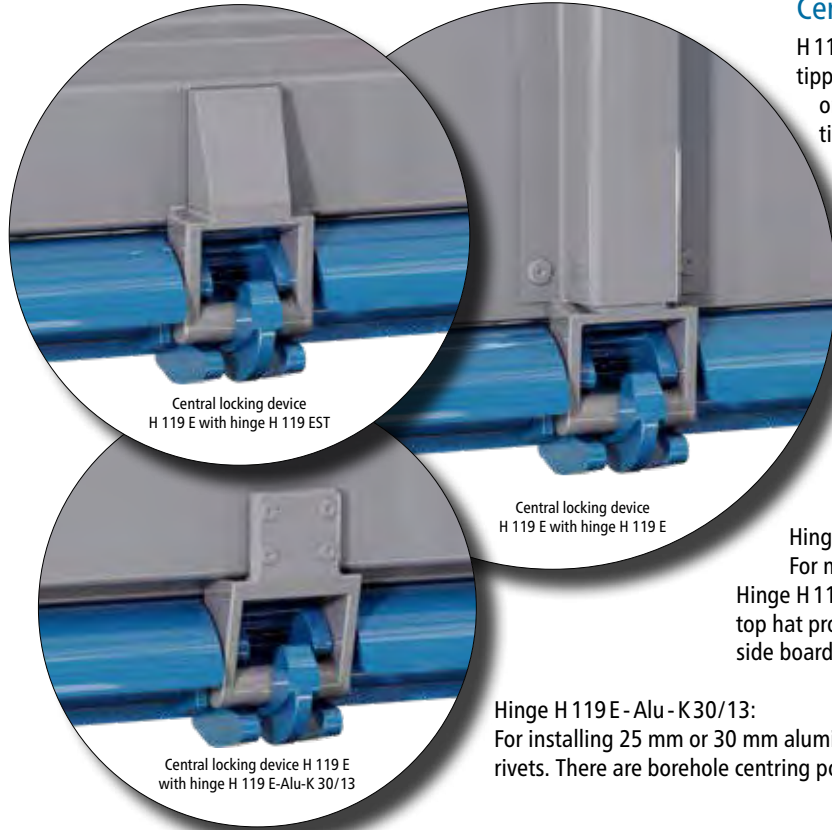
102101556

Cardan joint Ø 35 mm

Including accessories, raw steel,
 weight 0.36 kg.

Cardan joint for overcentre
 tensioner H 519 and H 519, side-
 mounted.

102101557



Central locking device H 119 E

H 119 E is a lower, non-positive central locking device for tipping bodies with heavy-duty floor frame profiles or equivalent, for example for the floor frame profile tipping body **372561031** on page 211.

The central locking device H 119 E is available preassembled with stub shaft $\varnothing 20$ mm or loose parts for shaft $\varnothing 20$ mm. These parts are listed on the next page.

When combined with our various hinges, these offer a wide range of potential applications.

Hinge H 119 EST:

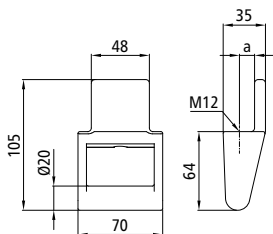
For welding on to all steel side boards. The support surface on the lower reinforcement box of the steel side board should be at least 60 mm high.

Hinge H 119 E:

For mounting on aluminium, steel or wooden side boards. Hinge H 119 E must be welded into a top hat profile (for example, top hat profile **372561135** on page 213) and mounted onto the side board using the top hat profile.

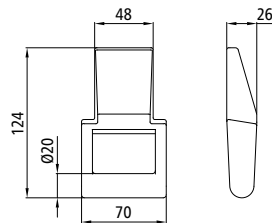
Hinge H 119 E - Alu - K30/13:

For installing 25 mm or 30 mm aluminium side boards using anchor bolts and Monobolt rivets. There are borehole centring points on the back side for positioning the rivets.



Hinge H 119 E - Alu - K 30/13

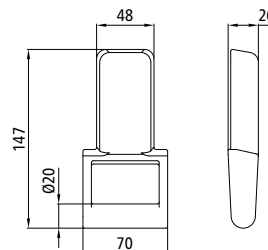
Zinc plated steel, weight 0.57 kg.



Hinge H 119 EST

Raw steel, weight 0.60 kg.

102102642

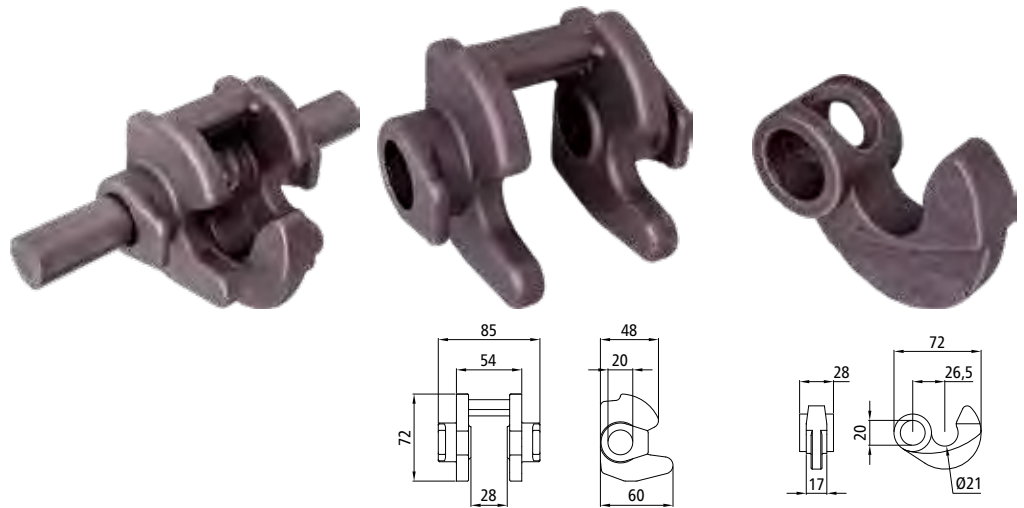


Hinge H 119 E

Raw steel, weight 0.68 kg.

102101357

Item number	Dim. a [mm]	For side boards [mm]
102101966	12.5	25
102101967	15	30



Hasp H 119E

Comprising hasp **102101359** and locking hook **102101360**, with stub shaft $\varnothing 20$ mm, raw steel, weight 1.18 kg.
102101356

Hasp H 119E

Loose, raw steel, weight 0.54 kg.
102101359

Locking hook H 119E

Loose, raw steel, weight 0.23 kg.
102101360

Central locking device H 120 A

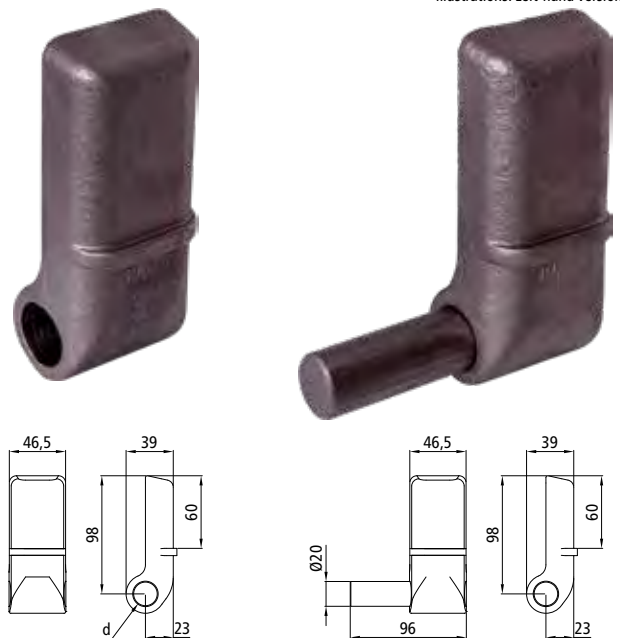
H 120 A is a lower, frictional central locking device for tipping bodies with aluminium, steel or wooden side boards. Suitable for shaft \varnothing of 25, 30 or 35 mm. Only the hinge eye H 120 A/22, item number **102101965**, is available for shaft $\varnothing 35$ mm.



A matching floor frame profile might for example be the floor frame profile for tipping bodies **372561030**, which you will find on page 211.

Hinge butt H 120 A must then be welded in a top hat profile (for example, top hat profile **372561135** on page 213) and then mounted onto aluminium, steel or wooden side board using the top hat profile.

Illustrations: Left-hand version.



Hinge eye H 120 A

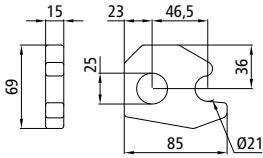
Without bolts, raw steel, weight 0.56 kg.

Item number	Dim. d [mm]
102101365	20
102101965	22

Hinge butt H 120 A/20

Bolt, raw steel, weight 0.77 kg.

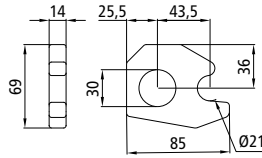
Item number	Version
102101791	left
102101792	right



Hasp H 120 A/25

For shaft Ø 25 mm, raw steel,
weight 0.40 kg.

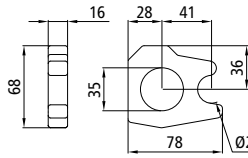
102101363



Hasp H 120 A/30

For shaft Ø 30 mm, raw steel,
weight 0.36 kg.

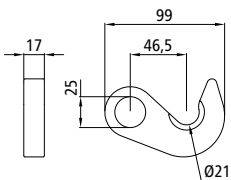
102101527



Hasp H 120 A/35

For shaft Ø 35 mm, raw steel,
weight 0.37 kg.

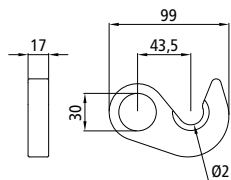
102101529



Locking hook

Corresponds to H 120 A/25, for
shaft Ø 25 mm, raw steel,
weight 0.35 kg.

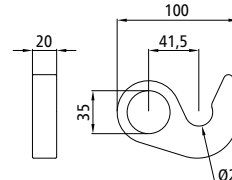
385101364



**Locking hook
H 120 A/30**

For shaft Ø 30 mm, raw steel,
weight 0.41 kg.

102101528



**Locking hook
H 120 A/35**

For shaft Ø 35 mm, raw steel,
weight 0.48 kg.

102101530



Central locking device H 955

Central locking device H955

H955 is a lower, frictional central locking device for tipping bodies with 30 mm aluminium side boards or 40 mm aluminium side boards set at 30 mm - for example using 40 mm lower end profiles **631006** or **631007**. Hinge H955 is screwed onto threaded bar **102102725** (end profile **631006** only) and/or using anchor bolt M12 (end profile **631007** only). In addition for both end profiles, with up to 4 Monobolt rivets.

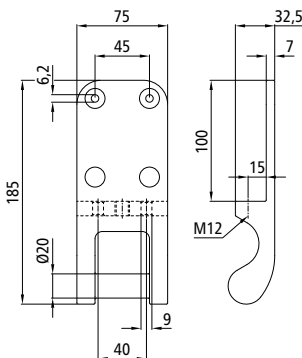
Central locking device H956

Central locking device H956, which consists of hinge H956 and locking system H955 S, is specially designed for the 40 mm lower end profile **631008**. This is a lower, frictional central locking device for tipping bodies with 40 mm aluminium side boards. Hinge H956 screw-mounted on threaded bar **500631031**.



Central locking device H 956

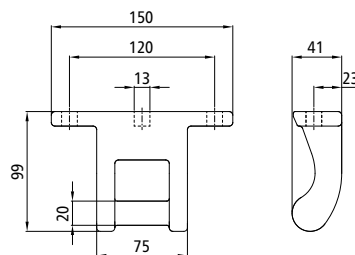
Both central locking devices are designed for \varnothing 35 mm shafts. A matching floor frame profile might be the floor frame profile for tipping bodies **372561382**, which you will find on page 212.



Hinge H955/M12

Zinc plated steel, weight 1.00 kg.

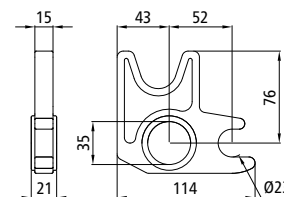
102102731



Hinge H956

Zinc plated steel, weight 1.17 kg.

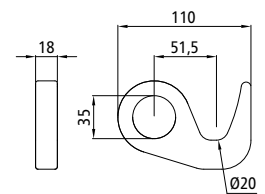
102102734



Hasp H955 S

Raw steel, weight 0.65 kg.

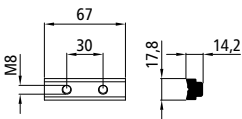
102102775



Locking hook H955 S

Raw steel, weight 0.56 kg.

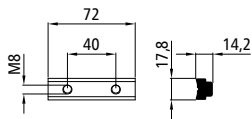
102102776



Threaded bar

Pos. 1, EN AW-6005A T6,
weight 0.03 kg.

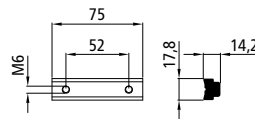
500111811



Threaded bar

Pos. 2, EN AW-6005A T6,
weight 0.04 kg.

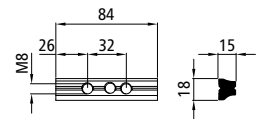
500111666



Threaded bar

Pos. 3, EN AW-6005A T6,
weight 0.04 kg.

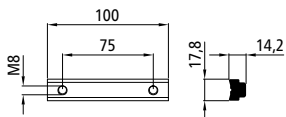
500111671



Threaded bar

Not shown, weight 0.04 kg.
For counterholder K20.

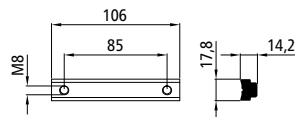
105111862



Threaded bar

Pos. 4, EN AW-6005A T6,
weight 0.05 kg.

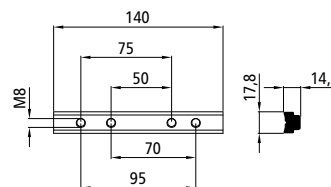
500111669



Threaded bar

Pos. 5, EN AW-6005A T6,
weight 0.06 kg.

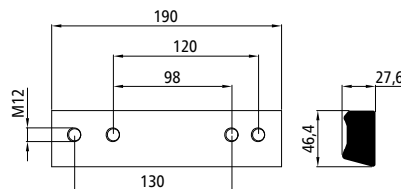
500111670



Threaded bar

Pos. 6, EN AW-6005A T6,
weight 0.07 kg.

500112007

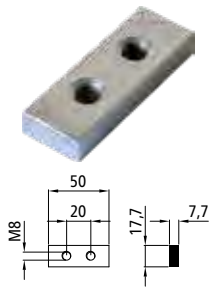


Threaded bar

Pos. 7, EN AW-6005A T6,
weight 0.52 kg.

Special threaded bar for
aluminium side board profile
631008 for mounting side
board hinge H 956, item no.:
102102734.

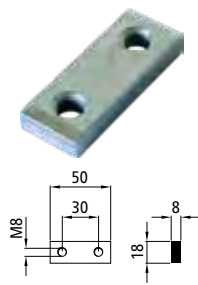
500631031



**Threaded base plate
HKG**

Zinc plated steel,
weight 0.05 kg.

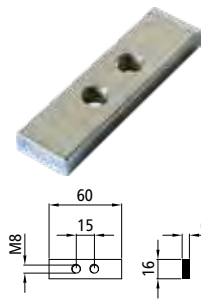
102111965



**Threaded base plate
4042**

Zinc plated steel,
weight 0.04 kg.

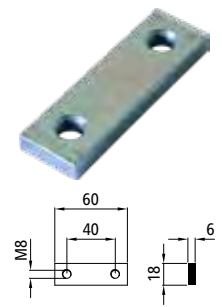
103111886



Thread base plate

Zinc plated steel,
weight 0.06 kg.

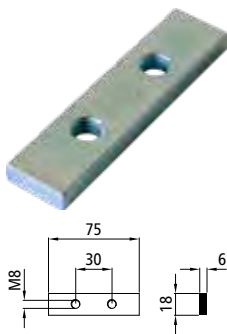
143112746



Thread base plate

Zinc plated steel,
weight 0.05 kg.

385102937



Thread base plate

Zinc plated steel,
weight 0.06 kg.

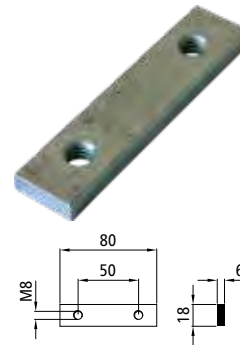
105111953



Thread base plate

Zinc plated steel,
weight 0.06 kg.

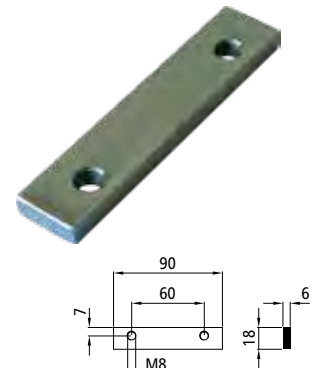
101111819



**Threaded base plate
H 871 KL**

Zinc plated steel,
weight 0.06 kg.

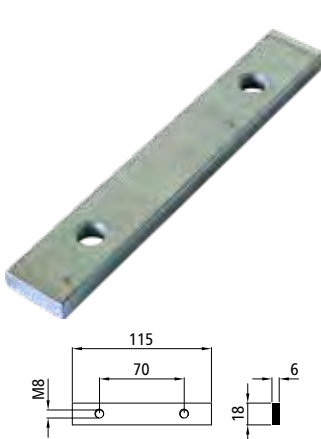
102111960



Thread base plate

Zinc plated steel,
weight 0.07 kg.

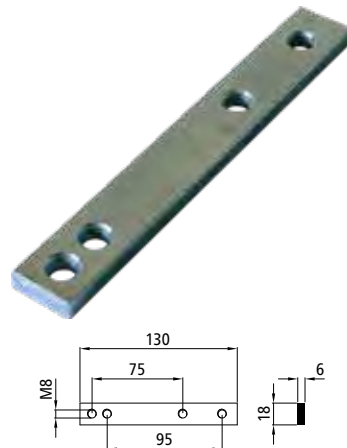
105389057



Thread base plate

Zinc plated steel,
weight 0.09 kg.

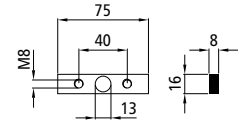
105111954



Thread base plate

Zinc plated steel,
weight 0.10 kg.

340111752

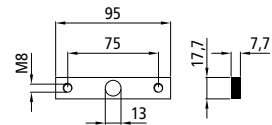


Thread base plate

Zinc plated steel,
weight 0.06 kg.

With borehole for anchor bolt
M12.

102102725

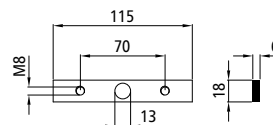


Thread base plate

Zinc plated steel,
weight 0.08 kg.

With borehole for anchor bolt
M12.

101111761

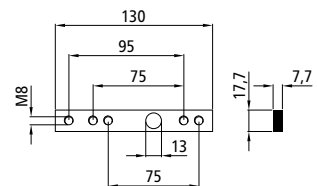


Thread base plate

Zinc plated steel,
weight 0.09 kg.

With borehole for anchor bolt
M12.

105111987



Thread base plate

Zinc plated steel,
weight 0.11 kg.

With borehole for anchor bolt
M12.

340111751

Threaded bar

M12 × 2000 - 4.6, zinc plated steel, weight 1.47 kg.

500111770

Stem nut

M12, zinc plated steel, weight 0.04 kg.

500111769



Anchor bolt M12

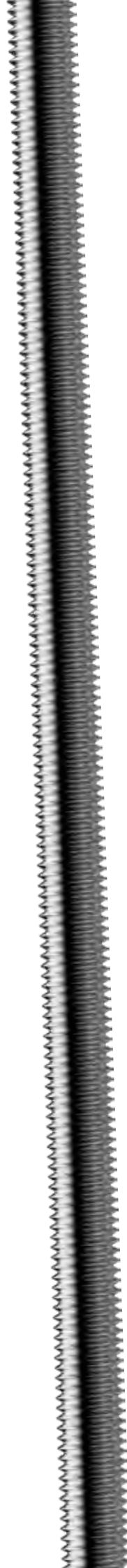
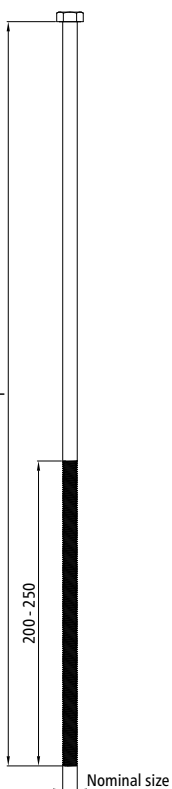
Zinc plated steel.

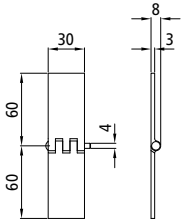
Item number	Dim. l [mm]	Weight [kg]
500111834	265	0.64
500111020	615	0.64
500111024	815	0.70
500111028	1015	0.82

Anchor bolt M16

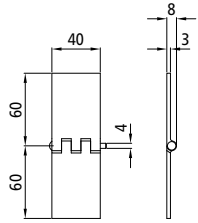
Zinc plated steel.

Item number	Dim. l [mm]	Weight [kg]
500111765	1015	1.64
500111767	1215	1.96

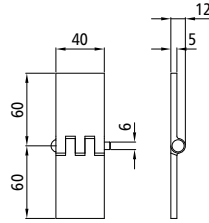




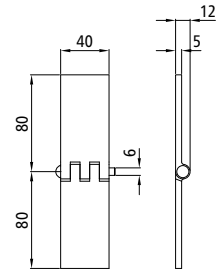
Straight door hinge
Raw steel, weight 0.09 kg.
340111263



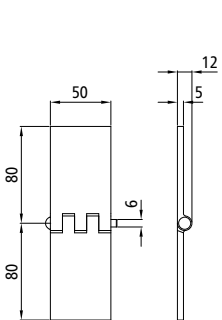
Straight door hinge
Raw steel, weight 0.13 kg.
340111264



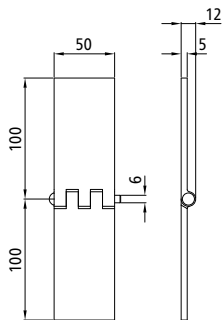
Straight door hinge
Raw steel, weight 0.21 kg.
340111265



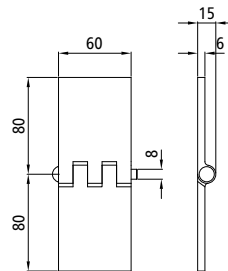
Straight door hinge
Raw steel, weight 0.27 kg.
340111266



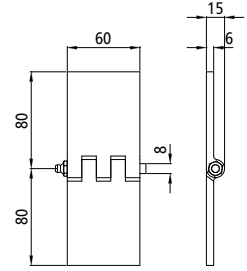
Straight door hinge
Raw steel, weight 0.34 kg.
340111267



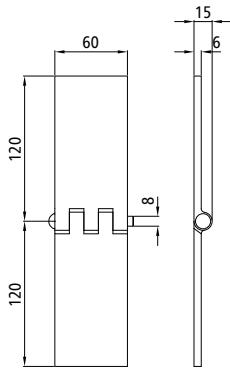
Straight door hinge
Raw steel, weight 0.42 kg.
340111268



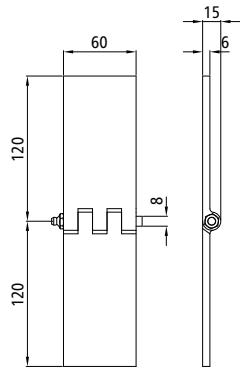
Straight door hinge
Raw steel, weight 0.48 kg.
340111269



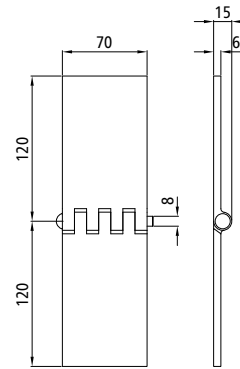
Straight door hinge
With grease nipple, raw steel,
weight 0.48 kg.
340112013



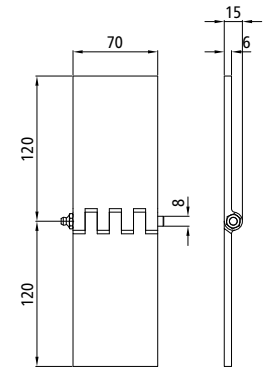
Straight door hinge
Raw steel, weight 0.70 kg.
340111270



Straight door hinge
With grease nipple, raw steel,
weight 0.70 kg.
340111931



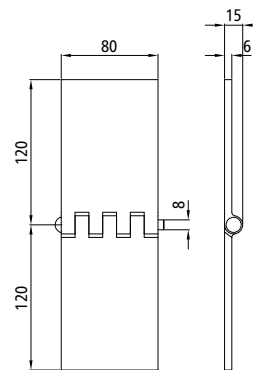
Straight door hinge
Raw steel, weight 0.82 kg.
340111271



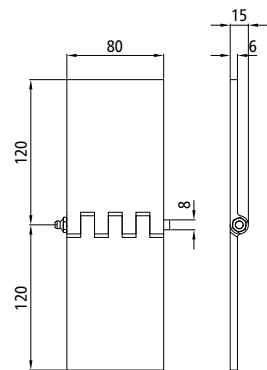
Straight door hinge
With grease nipple, raw steel,
weight 0.82 kg.
340111896



Straight door hinges?
But aren't they...
These hinges are also called car door hinges, automotive hinges or sash hinges.



Straight door hinge
Raw steel, weight 0.93 kg.
340111272

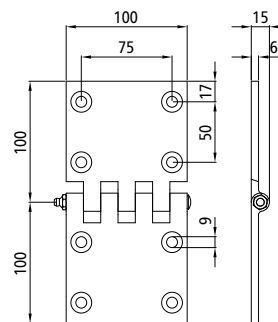


Straight door hinge
With grease nipple, raw steel,
weight 0.93 kg.
340111897

Straight door hinge

With grease nipple, zinc plated steel, weight 0.91 kg.

340111946

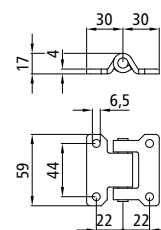


Side door hinges

Weight 0.14 kg.

Opening angle up to 180°.

Item number	Version
108071207	Zinc plated steel
108071192	Nirosta

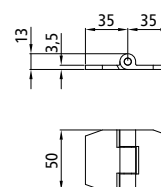


Side door hinge

Zinc plated steel, weight 0.13 kg.

With Metaloplast bushes.

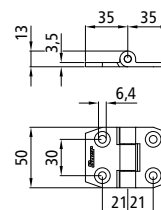
340111723

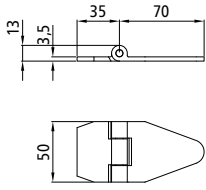


Side door hinge

Zinc plated steel, weight 0.12 kg.

340111722

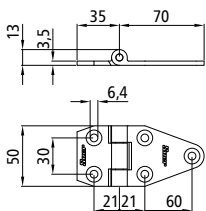




Side door hinge

Zinc plated steel,
weight 0.16 kg.
With Metaloplast bushes.

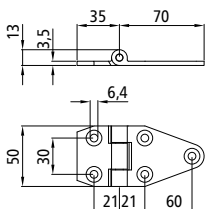
34011721



Side door hinge

Zinc plated steel,
weight 0.14 kg.

34011720



Side door hinge

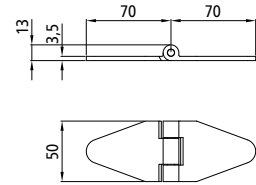
Zinc plated steel,
weight 0.15 kg.
With Metaloplast bushes.

340119720

Side door hinge

Zinc plated steel,
weight 0.19 kg.
With Metaloplast bushes.

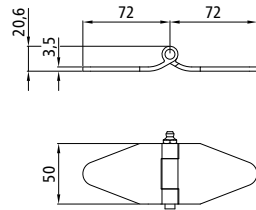
340111719



Side door hinge

With grease nipple, zinc plated
steel, weight 0.21 kg.

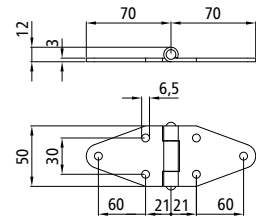
340111638



Side door hinge

Nirosta, weight 0.15 kg.

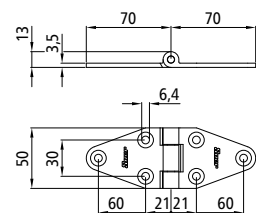
340111939



Side door hinge

Zinc plated steel,
weight 0.16 kg.

340111718

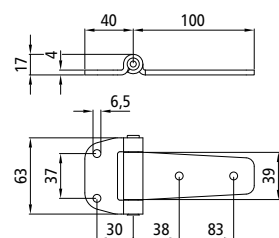


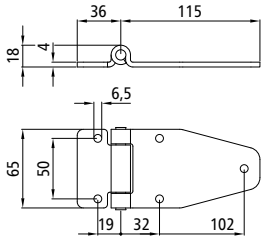
Side door hinges? But aren't they...
Manufacturers also call these hinges flap hinges,
trailer hinges or furniture van hinges.

Side door hinges

Weight 0.23 kg.
With Iglidur bushing, opening
angle up to 180°.

Item number	Version
108071202	Zinc plated steel
108071185	Nirosta





Illustrations: 108071194



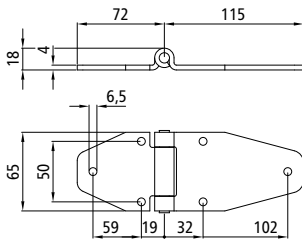
Side door hinges

Weight 0.32 kg.

Hinge 108071198 with grease nipple, hinge 108071194 with Iglidur bushes.

Opening angle up to 180°.

Item number	Version
108071198	Zinc plated steel
108071194	Nirosta

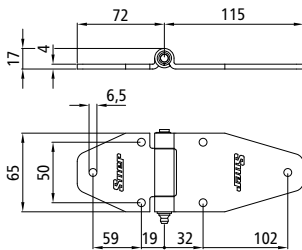


Side door hinge

Nirosta, weight 0.37 kg.

Iglidur bushing, opening angle up to 180°.

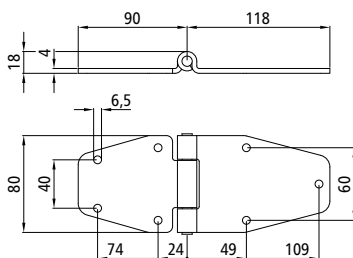
108071195



Side door hinge

With grease nipple, zinc plated steel, weight 0.37 kg.

34011724

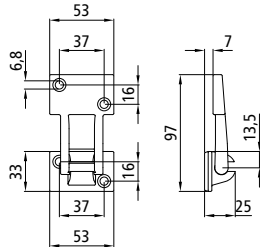
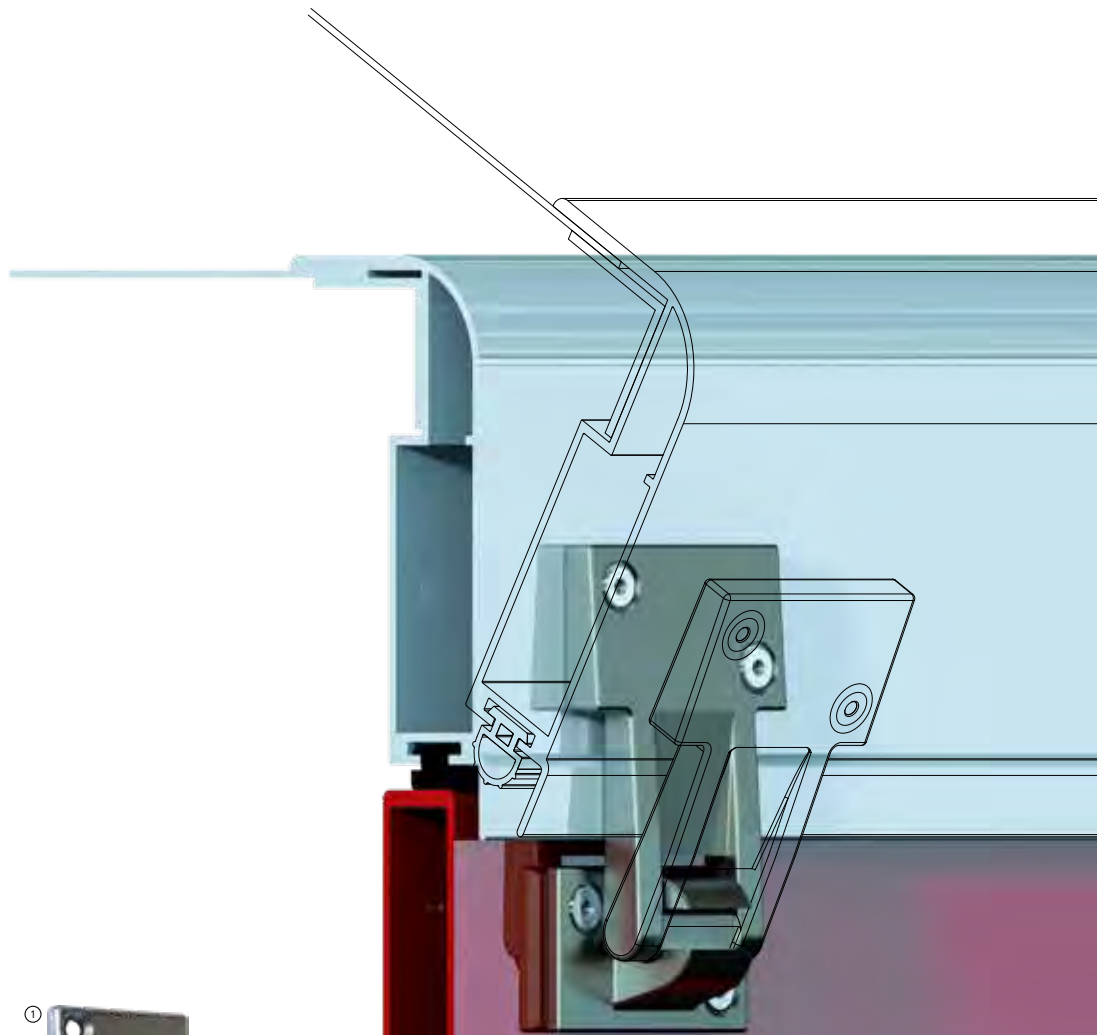


Side door hinge

Nirosta, weight 0.51 kg.

Iglidur bushing, opening angle up to 180°.

108071197

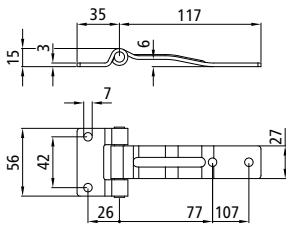


Box lid hinge

Please order all parts separately, zinc plated steel.
 The hinge leaf and hinge bearing can be separated from each other at an opening angle of approximately 90°.

Item number	Pos.	Name	Weight [kg]
34011856	1	Hinge leaf	0.15
34011857	2	Hinge bearing	0.09

Box lid for goods vehicle trailers
 To install a box lid, you will need, amongst other things, lid profile [641126](#) with seal [111947](#), lid corner [900621279](#) for corners, angle profile [621104](#) or rectangular profile [621274](#) for stiffening, and a hinge, box lid hinge [34011856/-57](#).
 Except for the hinge, all of these parts can be found in our Aluminium Catalogue.
 ... otherwise, ask us to deliver a custom-made box lid for you.
 Further information is available from our Aluminium Department in Wermelskirchen or directly from your Suer sales consultant.

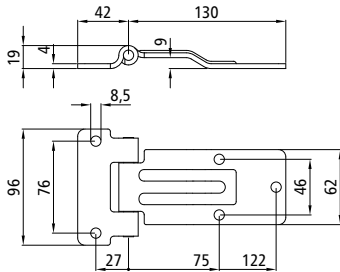


Door hinge

Nirosta, weight 0.16 kg.
For doors/flaps with an external seal. With Iglidur bushing, opening angle up to 180°.

108071585

These door hinges include a joint transition. They are particularly suited to doors/ventilation flaps with an external seal, as used in refrigerated bodies.

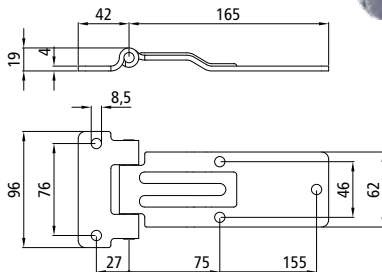


Door hinges

Weight 0.43 kg.
For doors/flaps with an external seal. With Iglidur bushing, opening angle up to 180°.

Item number	Version
108071208	Zinc plated steel
108071538	Nirosta

Illustrations:
Above 108071208/108071538,
Below 108071196

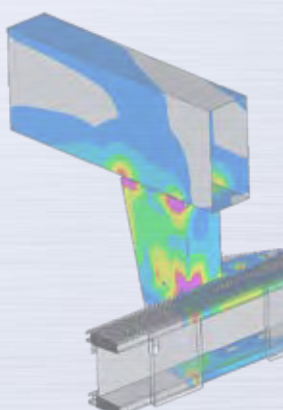
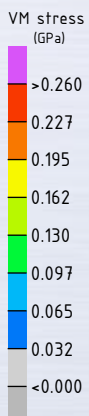


Door hinge

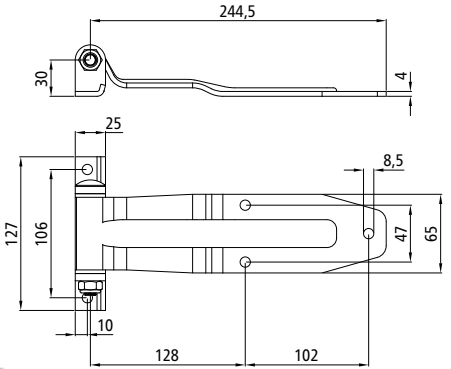
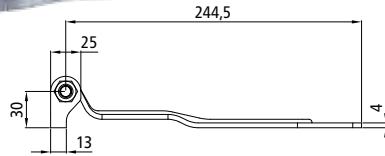
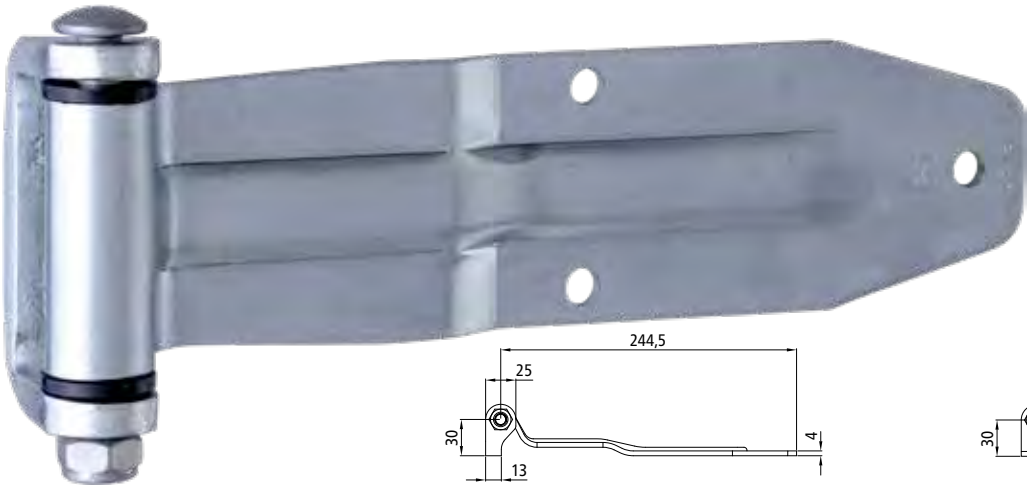
Nirosta, weight 0.49 kg.
For doors/flaps with an external seal. With Iglidur bushing, opening angle up to 180°.

108071196

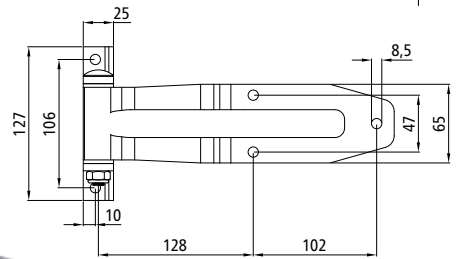
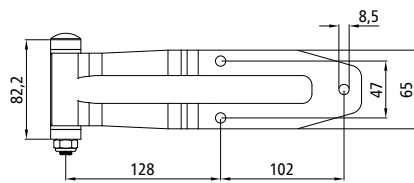
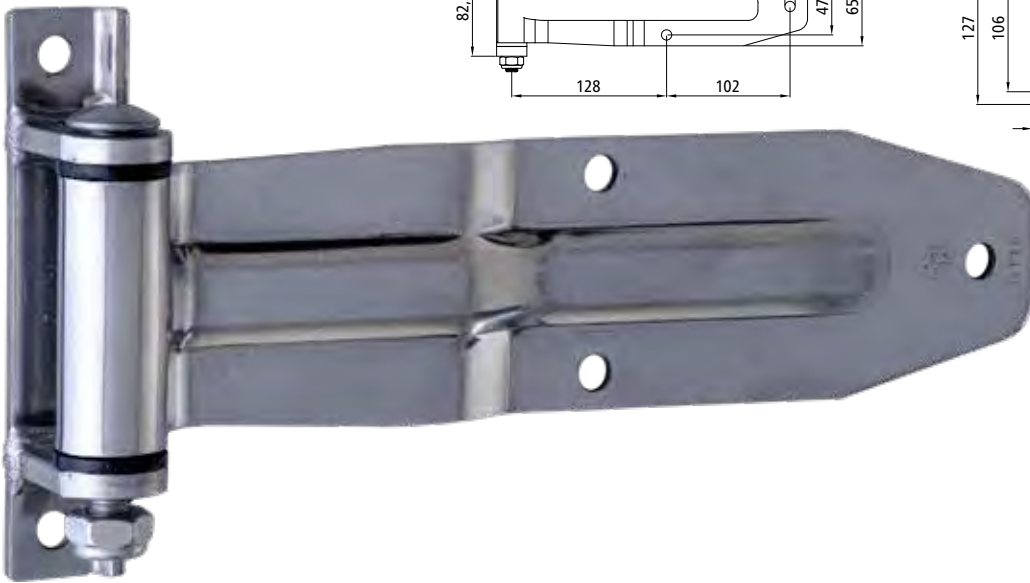
The new
Aluminium underrun guard
Type-approved according to ECE R58-03



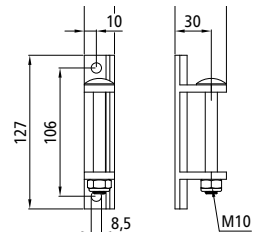
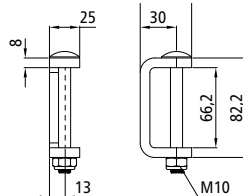
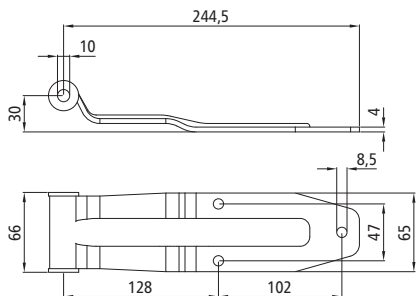
For more information: www.suer.de.



Illustrations:
 Above zinc plated version, 108071114 with 108071576;
 Below Nirosa version, 108071102 with 108071486.



The rear door hinge manufacturer only stipulates that the hinge leaf must match the hinge bearing version of the same material (see large illustrations). Alternatively, the separating nylon bushings also allow the Nirosa version of the hinge leaf to be combined with the zinc plated steel hinge bearing - and vice-versa.



Hinge leafs

Weight 0.57 kg.

With nylon bushing. Please order of the hinge bearing separately.

Item number	Version
108071114	Zinc plated steel
108071102	Nirosa

Hinge bearing

With bolts and lock nuts, weight 0.20 kg.

Opening angle up to 270°.

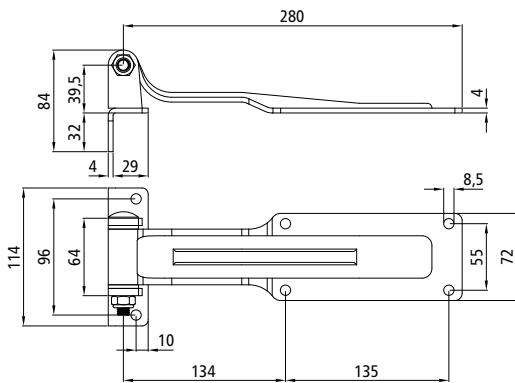
Item number	Version
108071576	Zinc plated steel
108071611	Nirosa

Hinge bearing

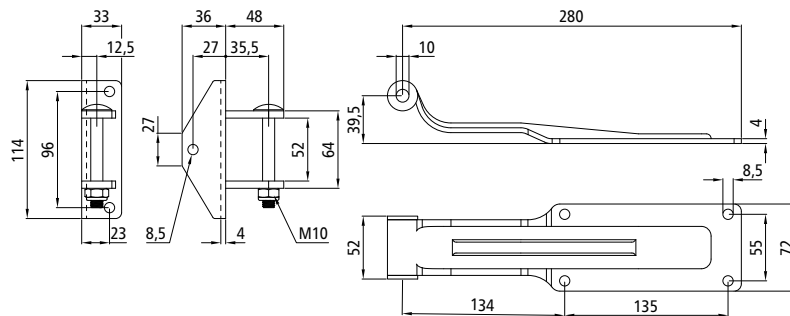
With bolts and lock nuts, weight 0.26 kg.

Opening angle up to 270°.

Item number	Version
108071502	Zinc plated steel
108071486	Nirosa



Replacement parts such as nylon bushings and bolts are available for many rear door hinges with item numbers beginning with 108. For more information, contact your sales consultant, or check out our Online Shop at www.suer.de.



Angled hinge bearing

With bolts and lock nuts. All parts of Nirosta, weight 0.36 kg. Opening angle up to 270°.

108071492

Hinge leaf

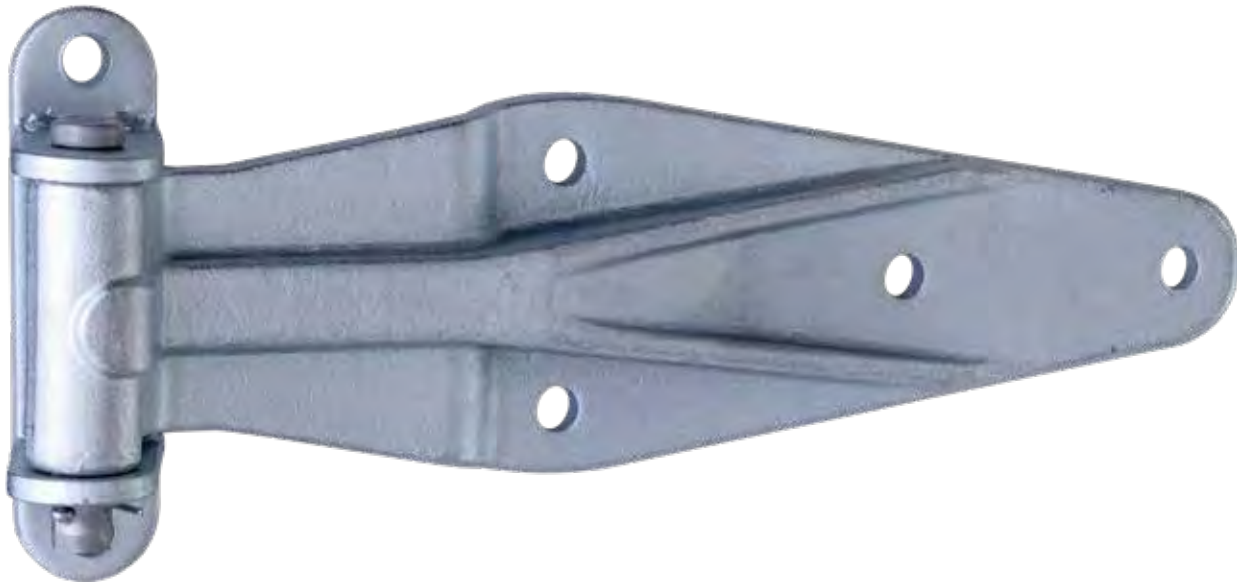
Weight 0.66 kg. With nylon bushing. Please order of the hinge bearing separately.

Item number	Version
108071608	Zinc plated steel
108071105	Nirosta

Nylon bushing

Not shown, replacement part for hinge leaf.

108071340

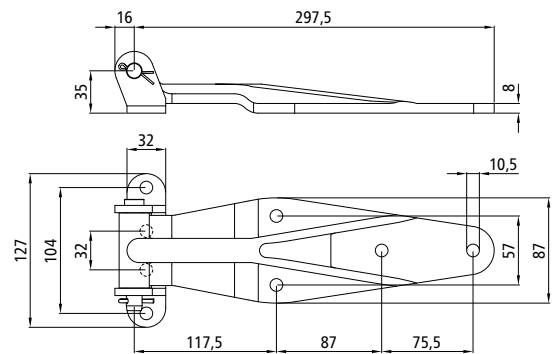


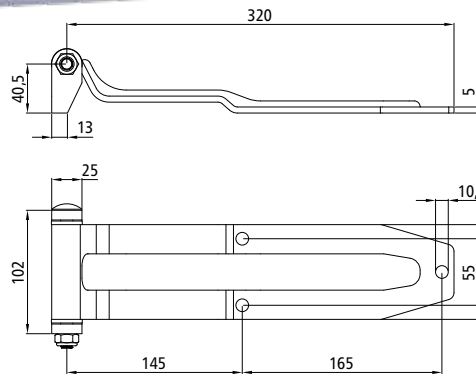
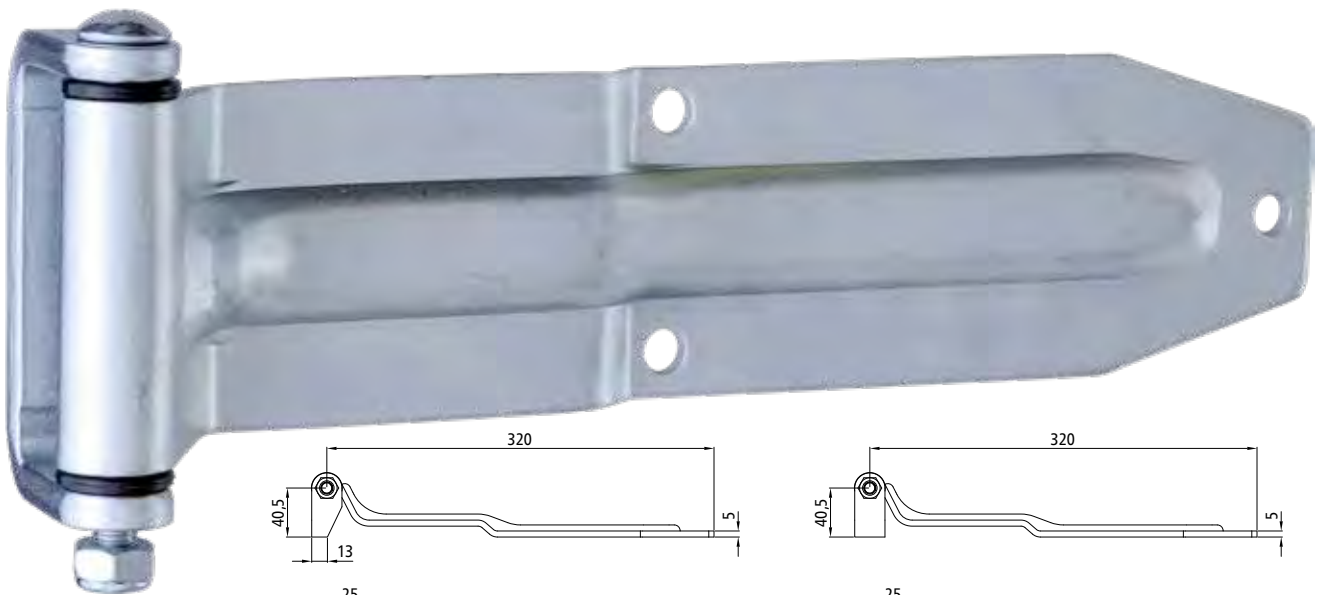
Rear door hinge C502

Zinc plated steel,
weight 2.02 kg.

Special, massive design for
containers, including hinge
bearing.

340111938

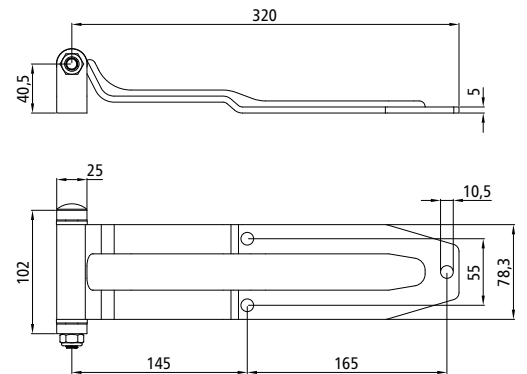




Rear door hinge MK4

Including hinge bearing, zinc plated steel, weight 1.38 kg.

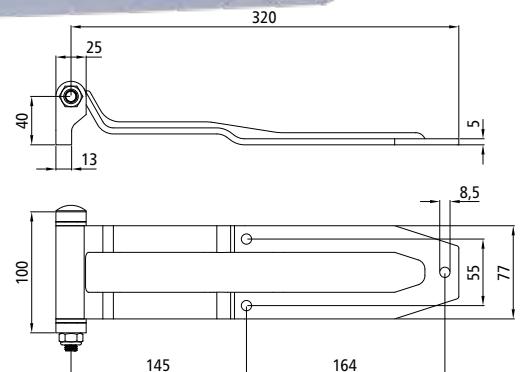
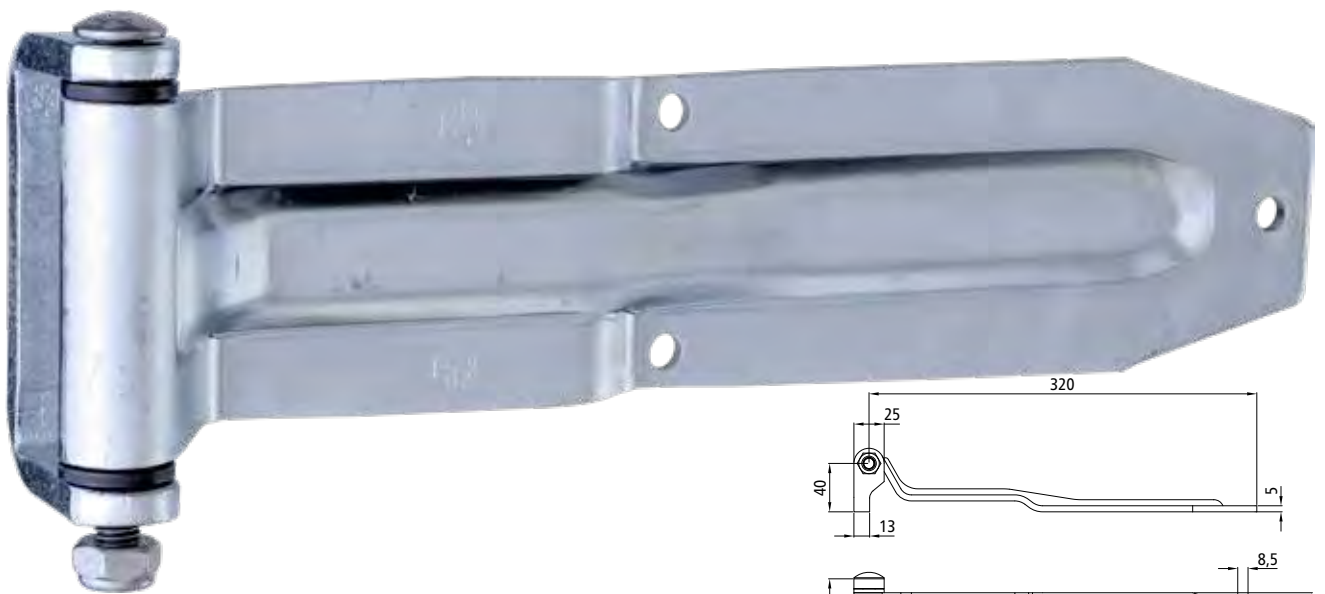
34011942



Rear door hinge MK4

Including hinge bearing, zinc plated steel, weight 1.48 kg.

34011941



Rear door hinge

Including hinge bearing, weight 1.38 kg.

Item number	Version
108071118	Zinc plated steel
108071103	Nirosta

The three rear door hinges **108071118**, **34011941** and **34011942** are produced by different manufacturers, but are almost identical. They differ primarily in terms of the dimensions of their hinge bearings and hole patterns.

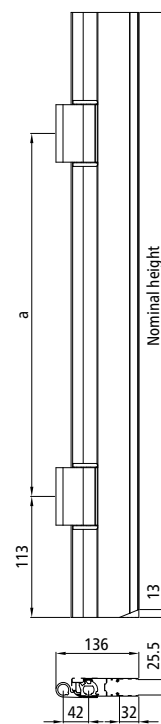


PWP double jointed door hinges

With aluminium surround profiles.

For mounting an overlying side board door. Please order the fixing set and cover cap (Pos. 1), door guide (Pos. 2) and seal options separately.

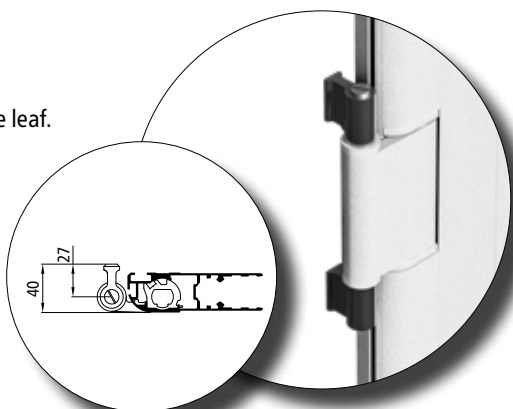
Item number	Nominal height [mm]	Dim. a [mm]	Version	Weight [kg]
105112032	500	300	left, raw surround	2.32
105112042	500	300	right, raw surround	2.32
105112152	500	300	left, anodised surround	2.32
105112162	500	300	right, anodised surround	2.32
105112052	600	400	left, raw surround	2.57
105112062	600	400	right, raw surround	2.57
105112172	600	400	left, anodised surround	2.57
105112182	600	400	right, anodised surround	2.57
105112092	800	600	left, raw surround	3.12
105112102	800	600	right, raw surround	3.12
105112192	800	600	left, anodised surround	3.12
105112202	800	600	right, anodised surround	3.12
105112132	1000	600	left, raw surround	4.07
105112142	1000	600	right, raw surround	4.07
105112232	1000	600	left, anodised surround	4.07
105112242	1000	600	right, anodised surround	4.07



Fixing set

For weld-mounting, weight 0.31 kg/hinge leaf. Set for 2 hinge leaves.

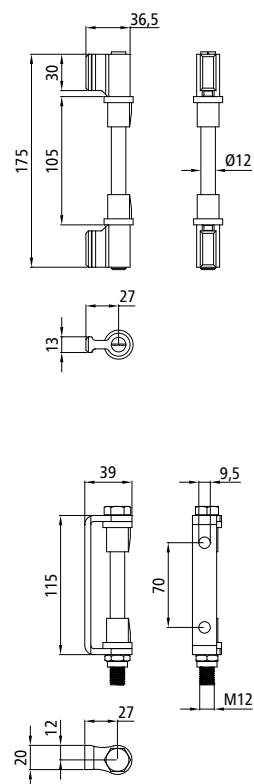
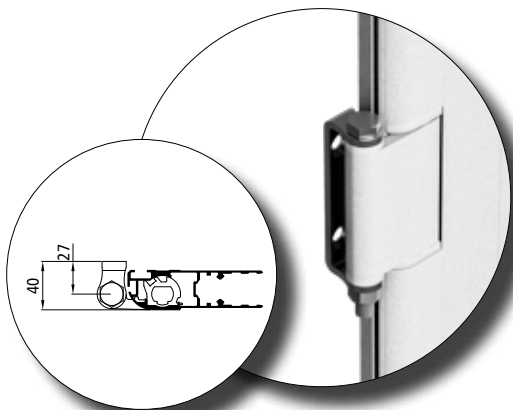
643045102



Fixing set

For screw-mounting, weight 0.27 kg. Set for 1 hinge leaf.

643045092



You will find the right PWP locking bar fasteners with surrounds for installing a side board door on pages 52 and 53.

PWP double jointed door hinge and cover cap illustrations on this page: Left-hand version

Illustrations: Left-hand version.



Cover cap

Weight 0.012 kg.

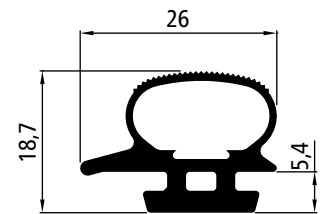
Item number	Version
643059001	left
643059002	right



Door guide

Polyamide, weight 0.005 kg.

643049112



Rubber seal

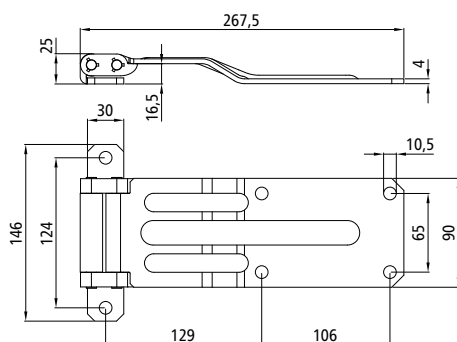
PWP 2.219.501, on 12 m roll, weight 0.21 kg/m.

Seal for PWP doors.

643219501

Door guide 643049112

When opening and closing a door with a double jointed door hinge, the frictional forces acting on the hasps of the hinge change as the centre of gravity of the door moves, such that it is impossible to determine sequence and at which joint the door will open. In the worst case scenario, in addition to damage to the paintwork, this can cause the rubber seal to escape from its seating in the surround profile, or shear off. With door guide 643049112, the joints are actuated in the correct opening and closing sequence. A door guide is clamped into the aluminium surround profile for each hinge.

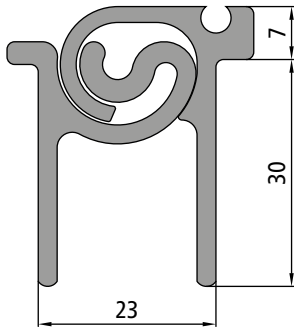


Double jointed hinges

Nirosta, weight 1.21 kg.

Opening angle up to 270°.

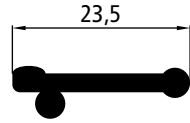
108071614



Continuous hinge

Anodised aluminium, length 4000 mm, weight 1.06 kg/m.
Opening angle up to 110°, rubber seals 108071474 optional.

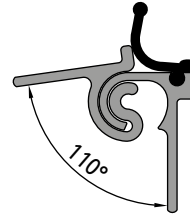
108071473



Rubber seal

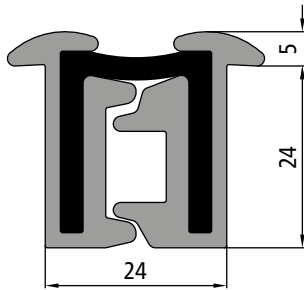
On 20 m roll, weight 0.06 kg/m.

108071474



Continuous hinges? But aren't they...

Manufacturers also call these hinges Poliall continuous hinges or piano hinges.

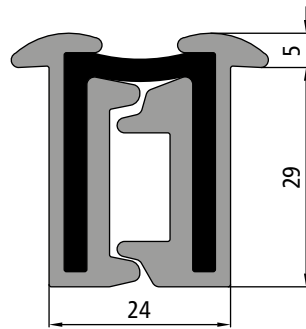


Continuous hinge

Anodised aluminium with black PU hinge band, weight 1.15 kg/m.

Opening angle up to 180°, with mounting holes, suitable for fixing with wide-head rivets.

Item number	Length [mm]
108071003	2400
108071005	2700
108071905	3200
108071001	4000

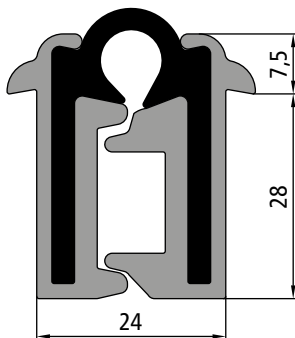
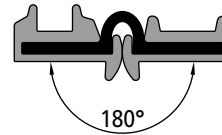


Continuous hinge

Anodised aluminium with black PU hinge band, weight 1.45 kg/m.

Opening angle up to 180°, with fixing holes.

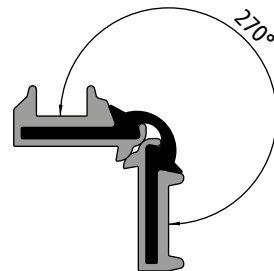
Item number	Length [mm]
108071004	2400
108071009	2700
108071002	4000

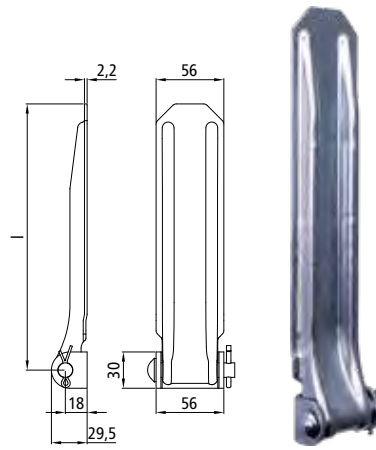


Continuous hinge

Anodised aluminium with black PU hinge band, length 3000 mm, weight 1.48 kg/m.
Opening angle up to 270°.

108071008





Flap hinges No. 114 M

Light-duty version, including hinge bearing, zinc plated steel.

Item number	Dim. l [mm]	Weight [kg]
104111790	220	0.57
104111547	270	0.61
104111548	320	0.69
104111549	370	0.77
104111550	420	0.85
104111551	470	0.93
104111552	520	1.01
104111553	570	1.09
104111554	620	1.17
104111555	670	1.25
104111557	770	1.41
104111558	820	1.49



Hinge pin with split pin

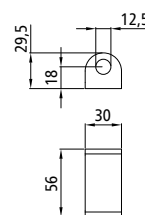
Ø12 × 65 mm, zinc plated steel, weight 1.18 kg.

104111560

Flap hinges No. 114 M

Light-duty version, no hinge bearing, with hinge pin and split pin, zinc plated steel.

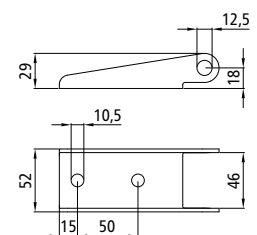
Item number	Dim. l [mm]	Weight [kg]
104111997	220	0.48
104112079	370	0.55



Hinge bearing

Zinc plated steel.

104111559



Hinge bracket

Zinc plated steel, weight 1.18 kg.

104111792

In combination with hinge bracket 104111792, the flap hinge can for example be used as a joint for main/subsidiary side boards on tipping bodies.
Illustration: Basic sketch

Flap hinges no. 170

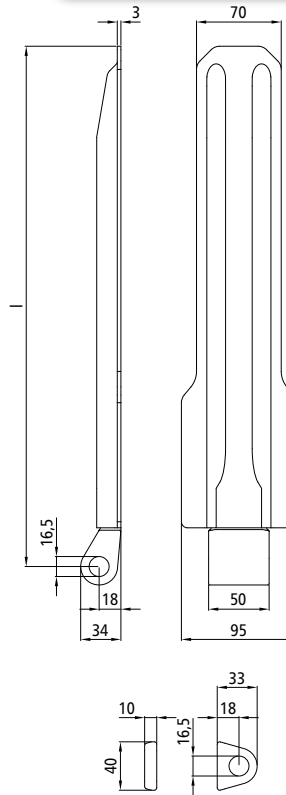
Heavy-duty version, no hinge bearing, zinc plated steel.

Item number	Dim. l [mm]	Weight [kg]
104111619	430	2.35
104111620	530	2.60
104111621	630	2.85
104111623	830	3.35
104111625	1030	3.85



Flap hinges, side tipper hinges?
But aren't they...

Manufacturers also call these hinges tipper hinges or side panel hinges.
Heavy-duty versions are also called fold-down hinges and/or tipping fold-down hinges.



Hinge bearing

Zinc plated steel, weight 0.05 kg.

104111633

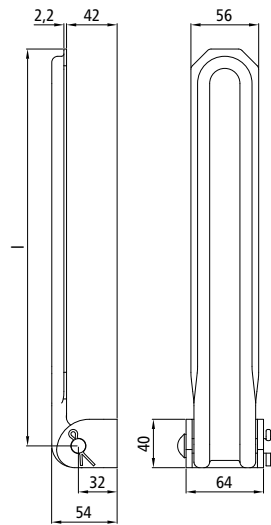


Hinge pin with split pin

Ø16 × 80 mm, zinc plated steel, weight 0.15 kg.

104111635





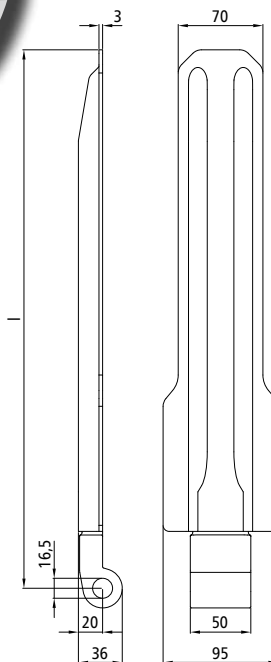
Side tipper hinges no. 114A

Light-duty version, including hinge bearing, zinc plated steel.

Item number	Dim. l [mm]	Weight [kg]
104111561	328	0.84
104111562	378	0.92
104111563	428	1.00
104111564	478	1.08
104111565	528	1.16
104111566	578	1.24
104111567	628	1.32



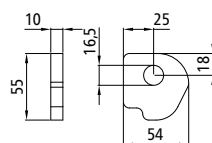
Side tipper hinge with hinge bearing 104111634 and hinge pin with split pin 104111635 mounted on an aluminium side board, integrated into floor frame profile 372561031.



Side tipper hinges no. 180

Heavy-duty version, no hinge bearing, zinc plated steel.

Item number	Dim. l [mm]	Weight [kg]
104111626	445	2.45
104111627	545	2.70
104111628	645	2.95
104111630	845	3.45



Hinge bearing

Zinc plated steel, weight 0.16 kg.

104111634



Hinge pin with split pin

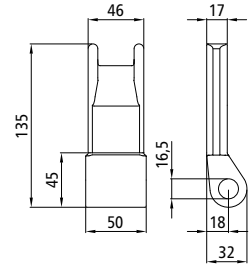
Ø16 × 80 mm, zinc plated steel, weight 0.15 kg.

104111635

Stump hinge

Forged steel, bare colour,
weight 0.72 kg.

104111539

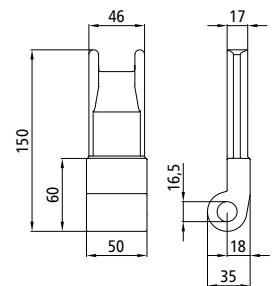


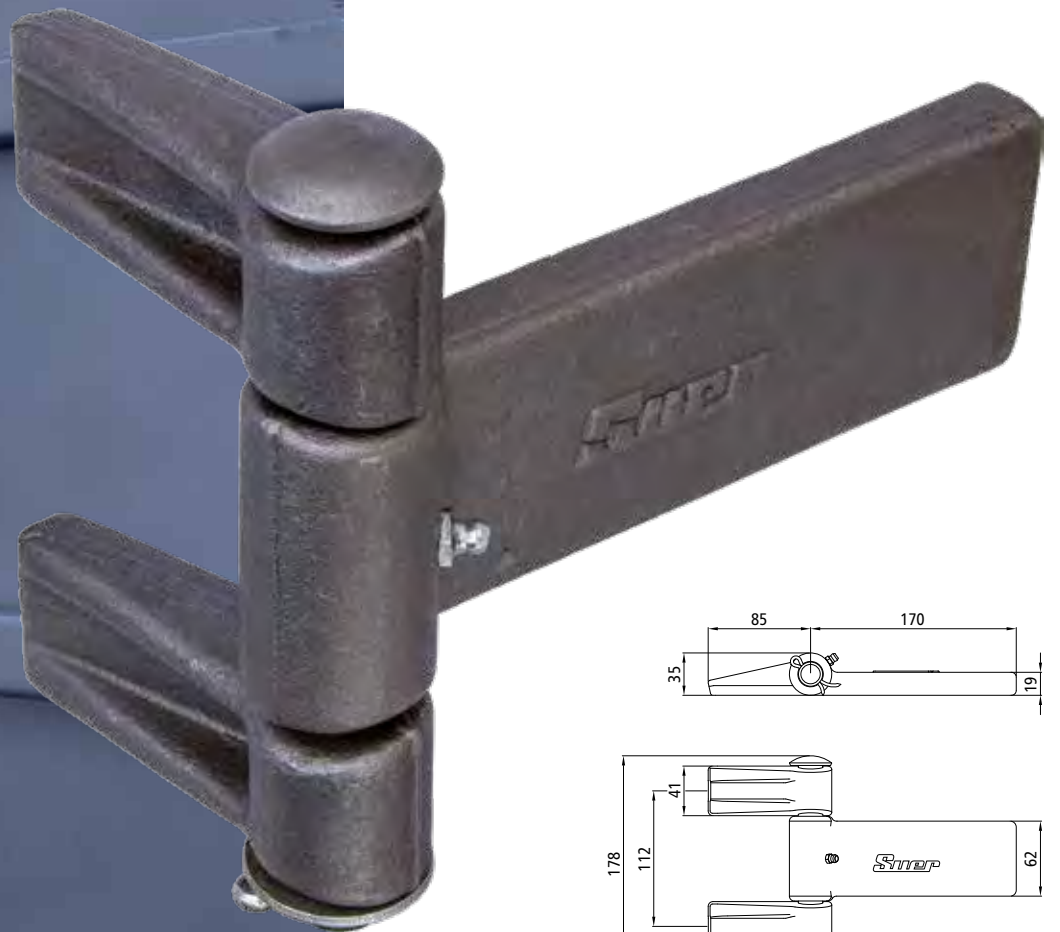
Accessories
 Stump hinges are used in flap hinges no. 170 and/or side tipper hinges no. 180.
 The hinge bearings and pins included with the hinges can be used as accessories.

Stump hinge

Forged steel, bare colour,
weight 0.83 kg.

104111540



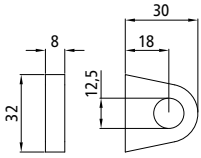


Container hinge

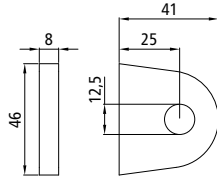
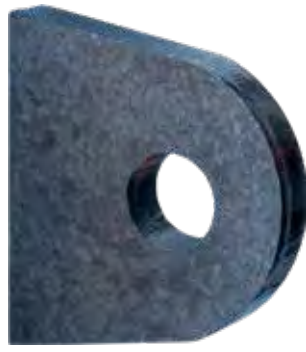
With grease nipple, raw steel,
weight 3.27 kg.

Left = right - simply rotate the
hinge pin.

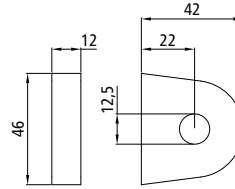
340111894



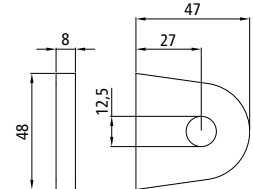
Hinge bearing eye
Raw steel, weight 0.034 kg.
340111593



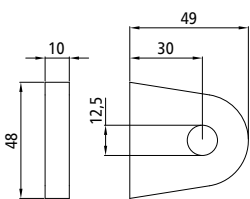
Hinge bearing eye
Raw steel, weight 0.087 kg.
340111386



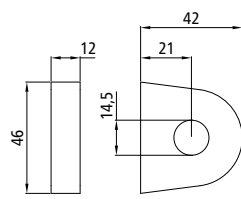
Hinge bearing eye
Raw steel, weight 0.14 kg.
340111380



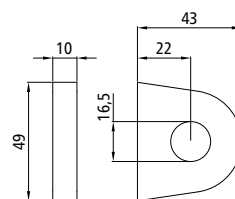
Hinge bearing eye
Raw steel, weight 0.11 kg.
340111385



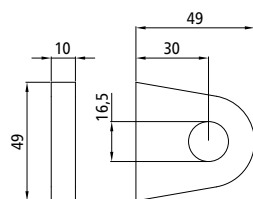
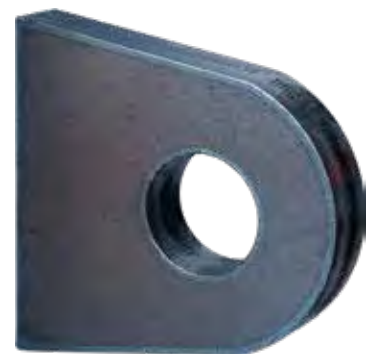
Hinge bearing eye
Raw steel, weight 0.14 kg.
340111383



Hinge bearing eye
Raw steel, weight 0.13 kg.
340111381



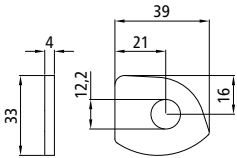
Hinge bearing eye
Raw steel, weight 0.11 kg.
340111996



Hinge bearing eye
Raw steel, weight 0.13 kg.
340111384

Hinge bearing eyes? But aren't they...

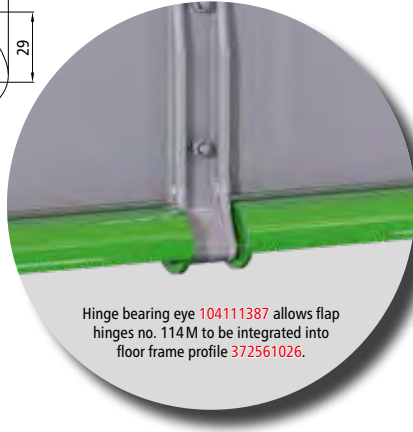
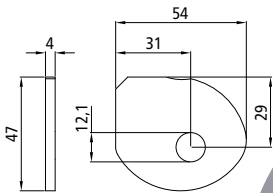
Manufacturers also call these bearing eyes weld-on eyes and fixed eyelets.



Hinge bearing eye

Raw steel, weight 0.027 kg.

104111388



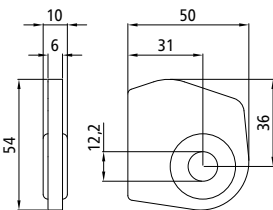
Hinge bearing eye 104111387 allows flap hinges no. 114M to be integrated into floor frame profile 372561026.



Hinge bearing eye

Raw steel, weight 0.061 kg.

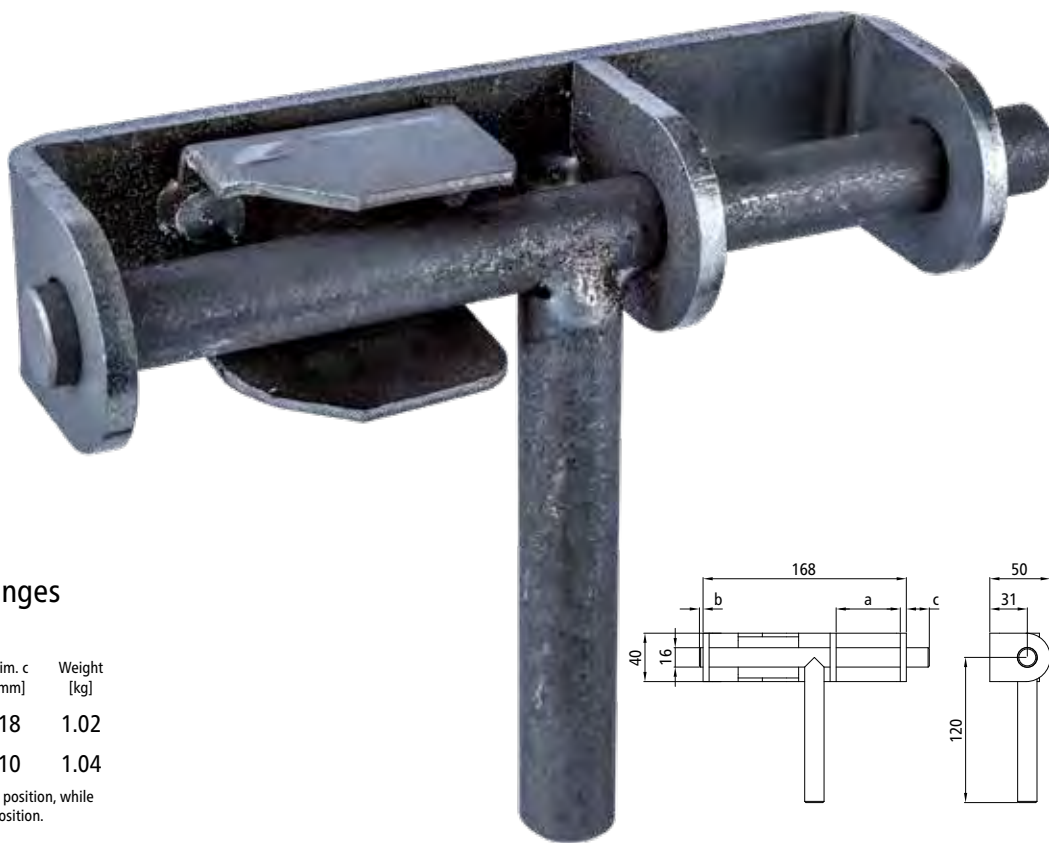
104111387



Hinge bearing eye

Raw steel, weight 0.11 kg.

215111389



Sliding blocks for tipper hinges

Raw steel.

Item number	Dim. a [mm]	Dim. b [mm]	Dim. c [mm]	Weight [kg]
215111394	47	3/77	18	1.02
215111395	52	16/84	10	1.04

The values for Dimension b refer to the open/closed position, while the values for Dimension c only refer to the closed position.

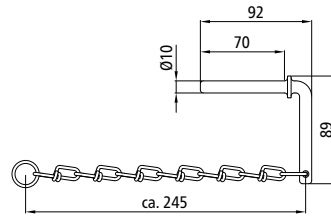
Safe manoeuvring

With modern LED work lights, which are also approved as reversing lights (ECE R23).

As in the Workpoint 1500 shown here: Voltage 12/24 V, 1500 lm, near-field illumination, ADR-Zone 2.

You will find these lights, and many more, in our Lighting Catalogue, which you can get in german from your sales consultant or download from our website, www.suer.de.

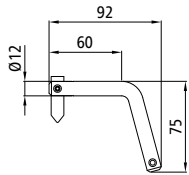




Retaining pin 10 × 70

With chain and ring, raw steel, weight 0.12 kg.

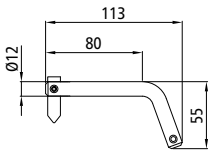
215101230



Retaining pin 12 × 40

With tongue, raw steel, weight 0.12 kg.

125141023



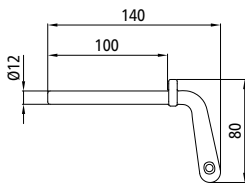
Retaining pin 12 × 70

With tongue, weight 0.12 kg.

Item number	Version
125141024	Raw steel
125141479	Zinc plated steel

125141024 Raw steel

125141479 Zinc plated steel



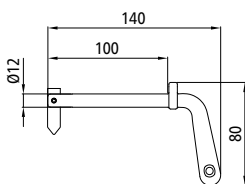
Retaining pin 12 × 100

Weight 0.15 kg.

Item number	Version
215141021	Raw steel
215142021	Hot-dip galvanised steel

215141021 Raw steel

215142021 Hot-dip galvanised steel



Retaining pin 12 × 80

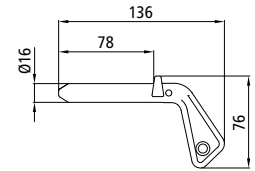
With tongue, steel, raw, weight 0.16 kg.

125141019

Retaining pin 16 × 70

Raw steel, weight 0.27 kg.

215141032



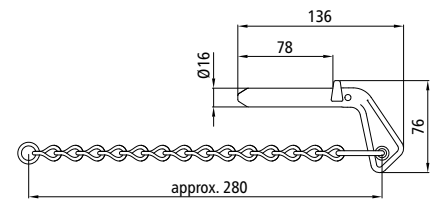
Retaining pins? But aren't they...

Manufacturers also refer to these retaining pins as lynchpins, safety latch pins, hinge pins or lynch pins. You can find retaining pins for tipper ball joints in the Tipper ball joints section on page 118 onward.

Retaining pin 16 × 70

With chain, raw steel, weight 0.35 kg.

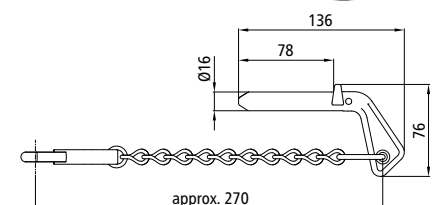
215141211

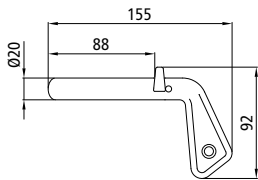


Retaining pin 16 × 70

With chain and 80" carabiner hook, raw steel, weight 0.37 kg.

215141027





Retaining pin 20 × 85

Raw steel, weight 0.48 kg.

215141034

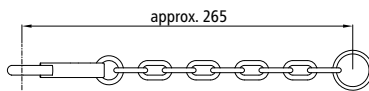
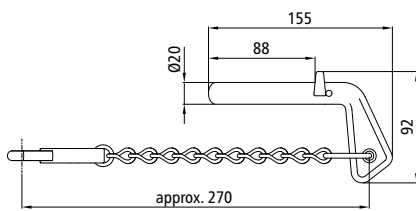
Illustration: 215143029



Retaining pin 20 × 85

With chain and 80" carabiner hook, weight 0.54 kg.

Item number	Version
215141029	Raw steel
215143029	Zinc plated steel



Chain for retaining pin

With chain and 80" carabiner hook, raw steel, weight 0.10 kg.

215141036



TIPPER BALL JOINTS



1000 & 2000 SERIES TIPPER BALL JOINTS	120
3000 & 4000 SERIES TIPPER BALL JOINTS	122
5000 & 6000 SERIES TIPPER ROTATING BALL JOINTS	124
8000 SERIES TIPPER ARM BEARING	126
SPARE PARTS FOR TIPPER BALL JOINT	128
OTHER TIPPER ARM BEARINGS	129

Tipper ball joints are used by well-known vehicle manufacturers - MAN-AG is shown here.

1000 series (Ø 45 mm) and 2000 series (Ø 60 mm) tipper ball joints

Our 1000 and 2000 series tipper ball joints represent a cost effective solution, particularly in the construction of agricultural vehicles and light tipper. They are simple and quick to install, making them particularly economical, and their rational design does away with the tipper drawbar; they are also maintenance free, thanks to their replaceable durethane shell.

The 2000 series tipper ball joint comes with optional integrated sound damping and/or crossover safeguard.

The 1000 series (Ø 45 mm) tipper ball joint is suitable for vehicles up to 8 t GVW, and the 2000 series (Ø 60 mm) for vehicles up to 12 t GVW.

Maximum 50° tipping angle.

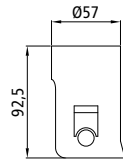
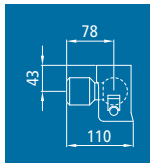


Crossover safeguard

The different retaining pin holes provide crossover safeguard thanks to the diagonal mounting of both tipper ball joints, thus preventing accidental damage to the tipper arm from an incorrectly inserted retaining pin.



Illustrations: 2000 series tipper ball joints.
 Top: welded ball with square stub 109141256 in combination with tipper ball joint with no sound damping;
 bottom: welded ball with round stub 109141255 in combination with tipper ball joint with sound damping.



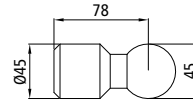
Tipper ball joint 1001

Holes for retaining pin 16/16, for Ø45 mm ball, raw steel, weight 1.62 kg.

Item number	Version
109141335	left
109141336	right



Illustrations - 1001 series tipper ball joint: Left-hand version



Welded ball 1002

Ø45 mm, raw steel, weight 0.93 kg.

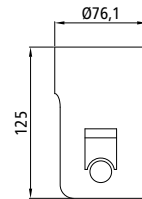
109141334



Retaining pin 1004

16/16, 1-pin locking, steel with zinc-nickel alloy surface, weight 0.23 kg.

109141337

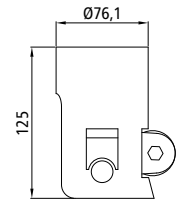


Tipper ball joint 2001

For Ø60 mm ball, raw steel, weight 1.60 kg.

Without sound damping.

Item number	Holes for retaining pin [mm]
109141257	19/19
109141258	20/18

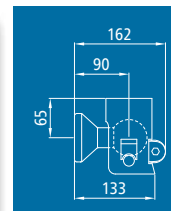
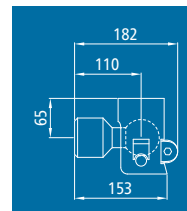
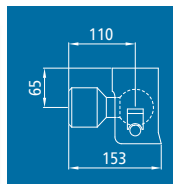
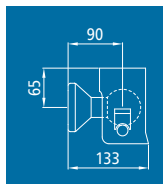


Tipper ball joint 2001

For Ø60 mm ball, raw steel, weight 1.81 kg.

With sound damping.

Item number	Holes for retaining pin [mm]
109141259	19/19
109141260	20/18



Welded ball 2002

With round stub, Ø60 mm, raw steel, weight 2.45 kg.

109141255

Welded ball 2002

With square stub, Ø60 mm, raw steel, weight 2.27 kg.

109141256

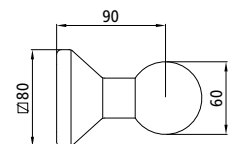
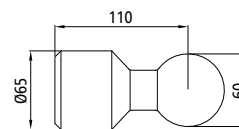


Illustration: Retaining pin, straight, with 1-pin locking



Illustration: Retaining pin, shouldered, with 1-pin locking

Retaining pin 2004

19/19, 1-pin locking, for tipper ball joint 109141257 + -59, steel with zinc-nickel alloy surface, weight 0.35 kg.

109141261

Retaining pin 2004

20/18, 1-pin locking, for tipper ball joint 109141258 + -60, steel with zinc-nickel alloy surface, weight 0.37 kg.

109141262

Illustration: 4000 series tipper ball joints



3000 series (Ø 80 mm) and 4000 series (Ø 100 mm) tipper ball joints

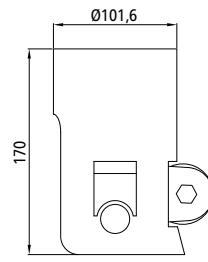
3000 and 4000 series tipper ball joints come with integrated sound damping provided by a robust Vulkollan roller. The roller is eccentrically adjustable.

The tipper ball joint is supported by a screw-in Durethane shell and is maintenance-free, ensuring an extended service life.

The tipper ball joints can be used in any tipping body on a heavy goods vehicle, trailer or semi-trailer. The 3000 series (Ø 80 mm) tipper ball joint is suitable for vehicles up to 24 t GVW, and the 4000 series (Ø 100 mm) for vehicles up to 36 t GVW.

Maximum 50° tipping angle.

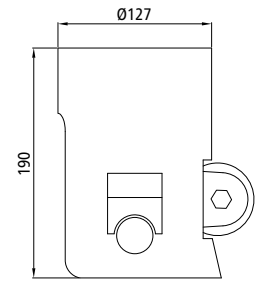
All component illustrations on this page are of the 4000 series tipper ball joint



Tipper ball joint 3001

For Ø 80 mm ball, raw steel, weight 3.77 kg.

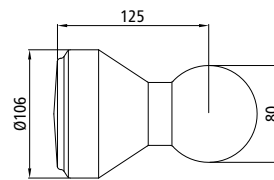
Item number	Holes for retaining pin [mm]
109141267	24/24
109141268	25/22



Tipper ball joint 4001

For Ø 100 mm ball, raw steel, weight 6.58 kg.

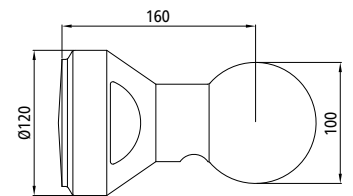
Item number	Holes for retaining pin [mm]
109141276	30/30
109141277	32/28



Welded ball 3002

Ø 80 mm, raw steel, weight 5.58 kg.

109141265



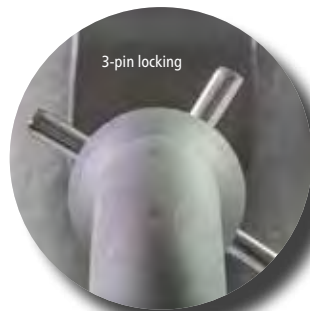
Welded ball 4002

Ø 100 mm, raw steel, weight 9.70 kg.

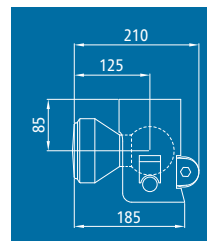
109141274



1-pin locking



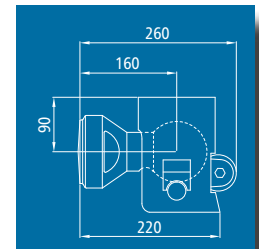
3-pin locking



Retaining pin 3004

24/24, for tipper ball joint 109141267, steel with zinc-nickel alloy surface, weight 0.87 kg.

Item number	Version
109141269	1-pin locking
109141555	3-pin locking



Retaining pin 4004

30/30, for tipper ball joint 109141276, steel with zinc-nickel alloy surface, weight 1.39 kg.

Item number	Version
109141278	1-pin locking
109141557	3-pin locking



Illustration: Retaining pin, straight, with 1-pin locking



Illustration: Retaining pin, straight, with 3-pin locking



Illustration: Retaining pin, shouldered, with 1-pin locking



Illustration: Retaining pin, shouldered, with 3-pin locking

Retaining pin 3004

25/22, for tipper ball joint 109141268, steel with zinc-nickel alloy surface, weight 0.87 kg.

Item number	Version
109141270	1-pin locking
109141556	3-pin locking

Retaining pin 4004

32/28, for tipper ball joint 109141277, steel with zinc-nickel alloy surface, weight 1.47 kg.

Item number	Version
109141279	1-pin locking
109141558	3-pin locking

Illustration:
5000 series tipper rotating ball joint with welded ball 3002.

Required screw materials:
5 × hexagonal bolts, DIN 933 - M 12 × 35
with nuts, DIN 934 - M 12



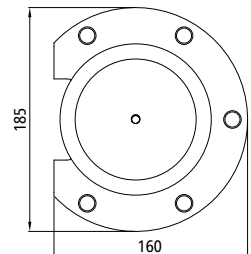
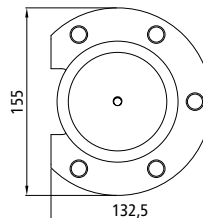
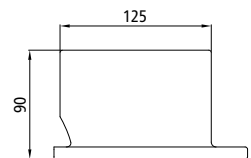
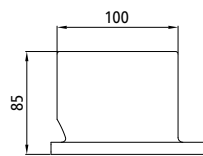
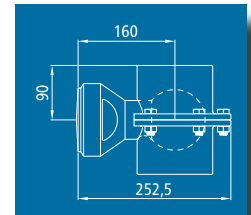
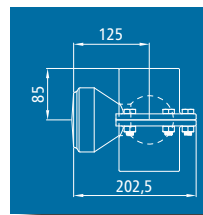
5000 series (Ø 80 mm) and 6000 series (Ø 100 mm) tipper rotating ball joints

5000 and 6000 series tipper rotating ball joints have a screw-in Durethane shell which holds the tipper rotating ball joint against the welded ball without wear, ensuring an extended service life.

The tight screw connection of the tipper rotating ball joint prevents any dirt particle ingress.

The tipper rotating ball joints can be used in all rear tipping bodies on heavy goods vehicles, trailers or semi-trailers.

The 5000 series (Ø 80 mm) tipper rotating ball joint is suitable for vehicles up to 24 t GVW, and the 6000 series (Ø 100 mm) for vehicles up to 36 t GVW.



5001 series tipper rotating ball joints

For Ø 80 mm ball, raw steel, weight 2.94 kg.

Top and bottom halves are identical. Please order 2 pieces for a single tipper rotating ball joint.

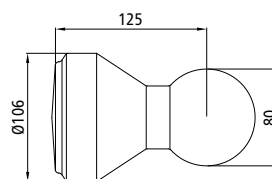
109141283

6001 series tipper rotating ball joints

For Ø 100 mm ball, raw steel, weight 5.04 kg.

Top and bottom halves are identical. Please order 2 pieces for a single tipper rotating ball joint.

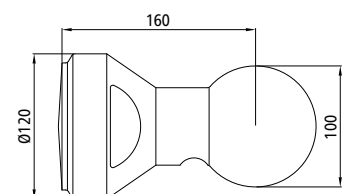
109141285



Welded ball 3002

Ø 80 mm, raw steel, weight 5.58 kg.

109141265



Welded ball 4002

Ø 100 mm, raw steel, weight 9.70 kg.

109141274

8000 series tipper arm bearing

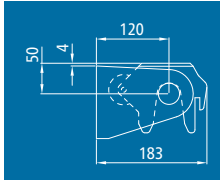
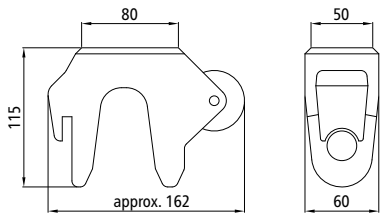
The 8000 series tipper arm bearing with sound damping comes with lateral length compensation.

It can be used on all tipping bodies on heavy goods vehicles, trailers and semi-trailers - it is very good in combination with 3000 series ($\varnothing 80$ mm) tipper ball joints. In this case, please note the different permissible all-up weights for the tipper ball joint and tipper arm bearing.

The 8000 series tipper arm bearing is intended for vehicles of up to 28 t GVW.



Illustration:
Tipper arm bearing 8001 with tipper arm fork 8002 and retaining pin 3004



Tipper arm bearing 8001

Raw steel, weight 3.56 kg.

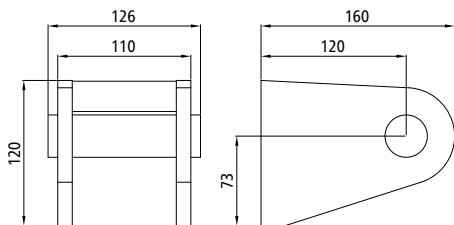
Item number	Holes for retaining pin [mm]
109141387	24/24
109141388	25/22



Tipper arm fork 8002

Raw steel, weight 3.90 kg.

109141389



1-pin locking



Illustration: Retaining pin, straight, with 1-pin locking

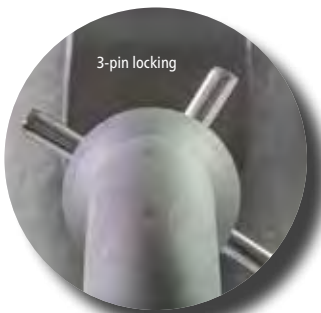


Illustration: Retaining pin, straight, with 3-pin locking

Retaining pin 3004

24/24, for tipper ball joint 109141267, steel with zinc-nickel alloy surface, weight 0.87 kg.

Item number	Version
109141269	1-pin locking
109141555	3-pin locking



3-pin locking



Illustration: Retaining pin, shouldered, with 1-pin locking



Illustration: Retaining pin, shouldered, with 3-pin locking

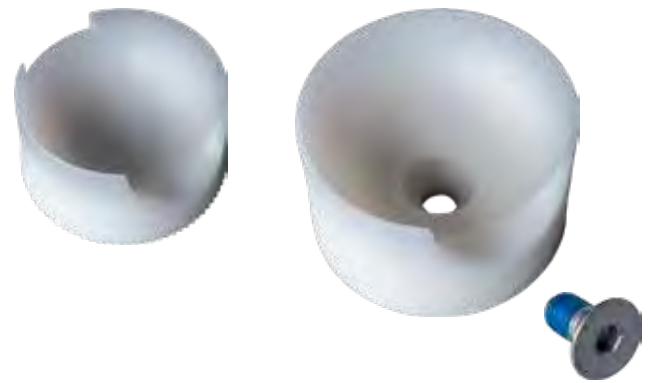
Retaining pin 3004

25/22, for tipper ball joint 109141268, steel with zinc-nickel alloy surface, weight 0.87 kg.

Item number	Version
109141270	1-pin locking
109141556	3-pin locking

Durethane shell

Spare part for tipper ball joints/tipper rotating ball joint.
 Durethane shell **109141338** is pressed into the bearing; all other shells are mounted using the supplied socket-head screws
 DIN 7991 - M8 x 16.



Item number	Name	For ball Ø [mm]	Suitable for tipper ball joints/ tipper rotating ball joints
109141338	Durethane shell 1003	45	1001
109141263	Durethane shell 2003	60	2001
109141271	Durethane shell 3003/5003	80	3001, 5001
109141280	Durethane shell 4003/6003	100	4001, 6001

Vulkollan roller

Spare part for tipper ball joints with sound damping.

Item number	Name	Dimensions Ød x w x Øa [mm]	Suitable for tipper ball joints
109141264	Vulkollan roller 2005	50 x 20 x 18	2001
109141272	Vulkollan roller 3005	50 x 42 x 18	3001
109141371	Vulkollan roller 4005	60 x 42 x 18	4001



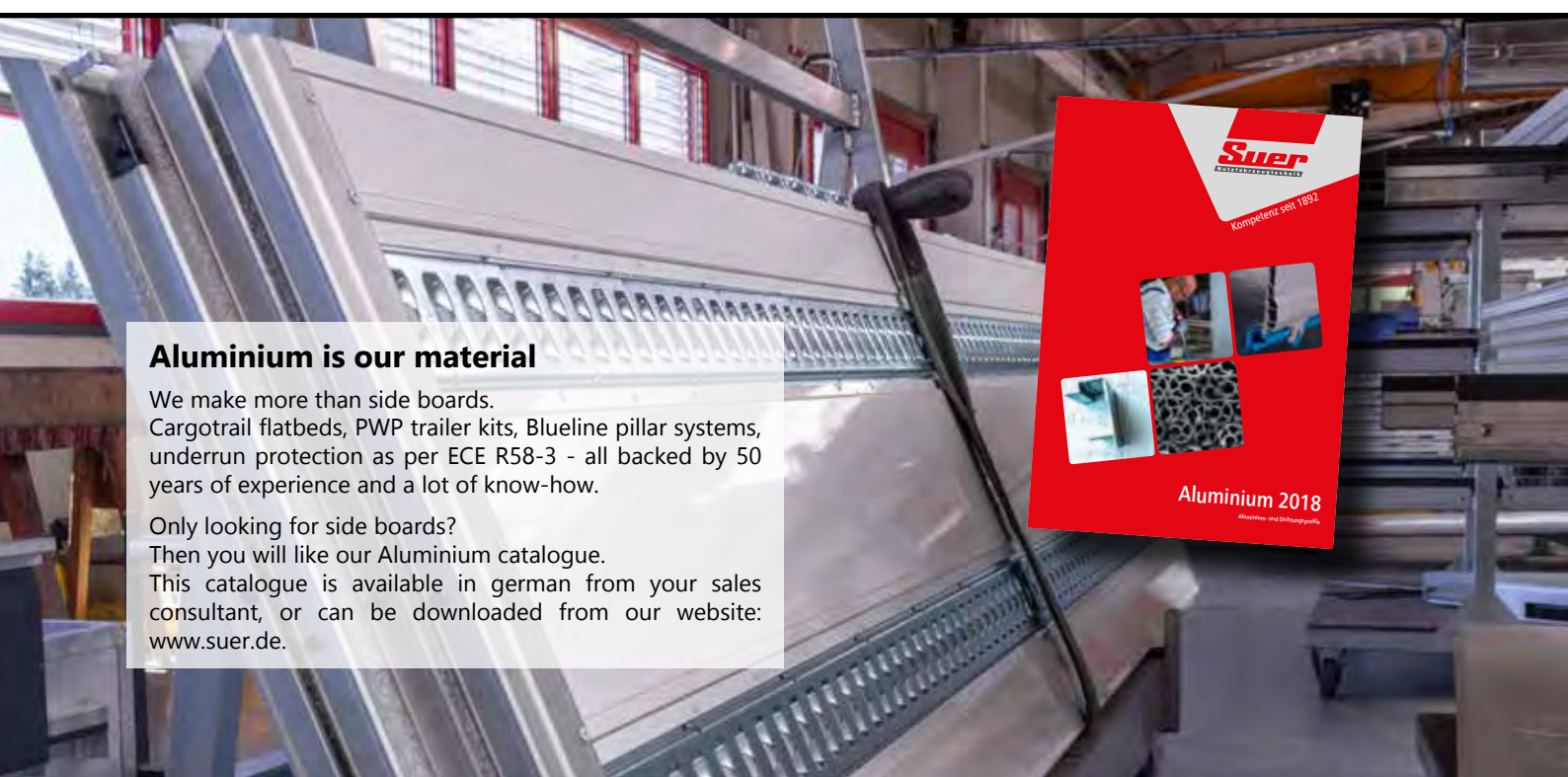
Eccentric screw 3006/4006

Spare part for tipper ball joints with sound damping.
 For tipper ball joints 3001 and 4001 only.



109141273

The Vulkollan rollers and eccentric screws shown on this page are not suitable for the 8000 series tipper arm bearing.

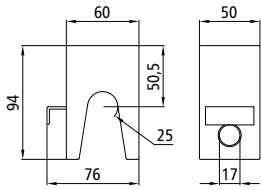


Aluminium is our material

We make more than side boards.
 Cargotrail flatbeds, PWP trailer kits, Blueline pillar systems, underrun protection as per ECE R58-3 - all backed by 50 years of experience and a lot of know-how.

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 Then you will like our Aluminium catalogue.
 This catalogue is available in german from your sales consultant, or can be downloaded from our website:
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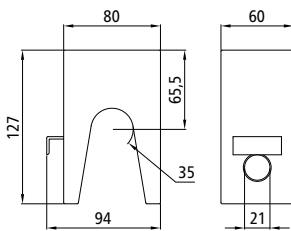




Tipper arm bearing size 1

Raw steel, weight 1.51 kg.

215141037

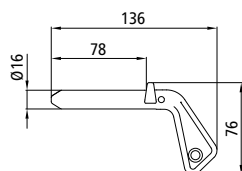


Tipper arm bearing size 2

Raw steel, weight 3.11 kg.

215141038

These retaining pins are also available with chains, see page 116 onward.



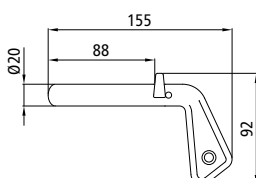
Retaining pin 16 × 70

Raw steel, weight 0.27 kg.

Suitable for tipper arm bearing

215141037.

215141032



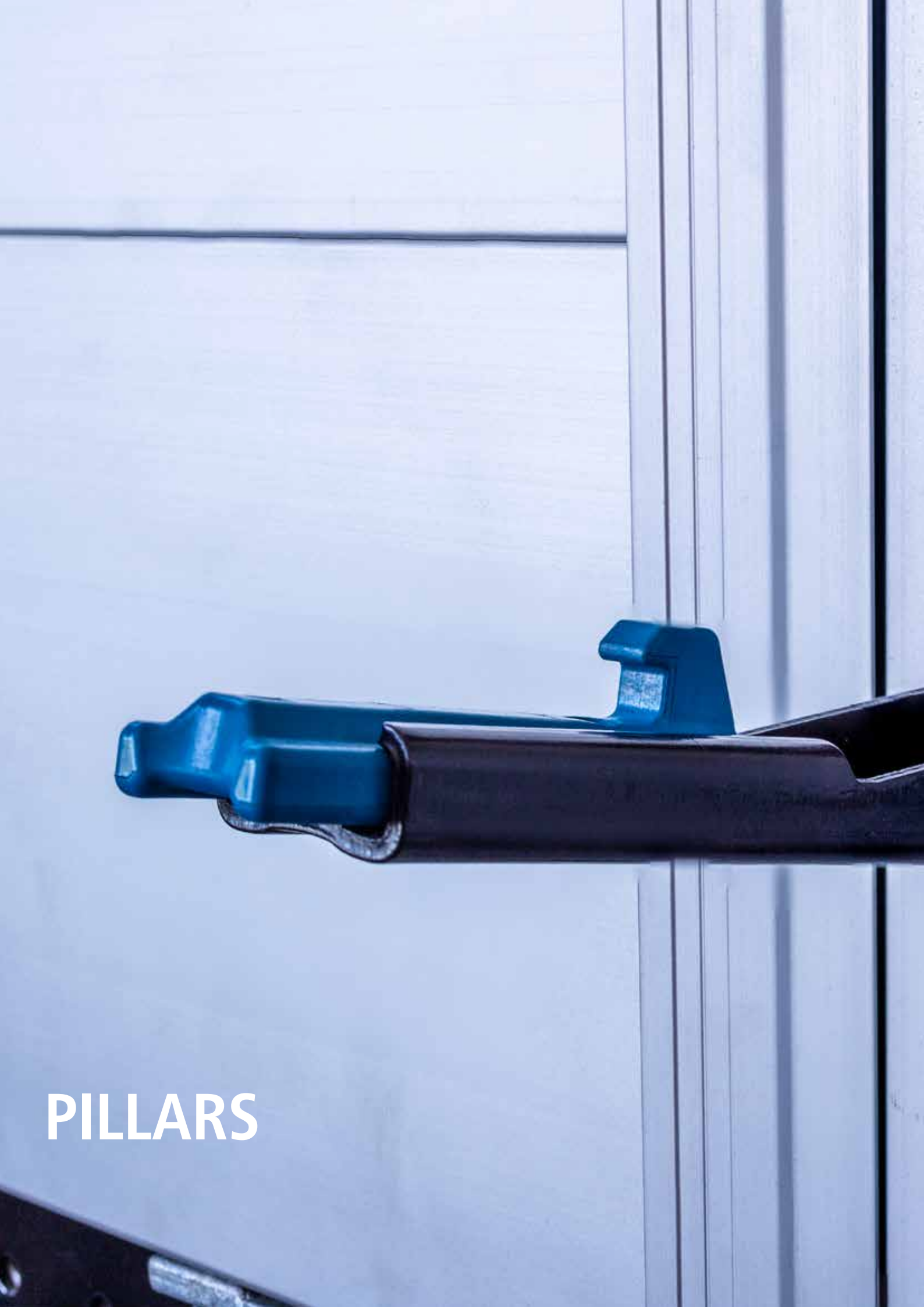
Retaining pin 20 × 85

Raw steel, weight 0.48 kg.

Suitable for tipper arm bearing

215141038.

215141034



PILLARS



Blueline DL aluminium pillar
with open hand lever.

BLUELINE PILLARS, ALUMINIUM	132
BLUELINE IL PILLARS, ALUMINIUM	132
BLUELINE DL PILLARS, ALUMINIUM	134
BLUELINE ALUMINIUM PILLAR ACCESSORIES	137
K20 PILLARS	139
K20 STEEL PILLARS	139
K20 ALUMINIUM PILLARS	147
K20 PILLAR ACCESSORIES	153
K20 PILLAR SPARE PARTS	156
CURTAINSIDER CENTRE PILLARS	157
BLUELINE CS ALUMINIUM CENTRE PILLAR	157
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CS CENTRE PILLARS	164
PILLAR RACKETS	166
PILLAR HOLDER	169
PILLAR WEDGES & SOCKETS	170
PILLAR FASTENERS	171

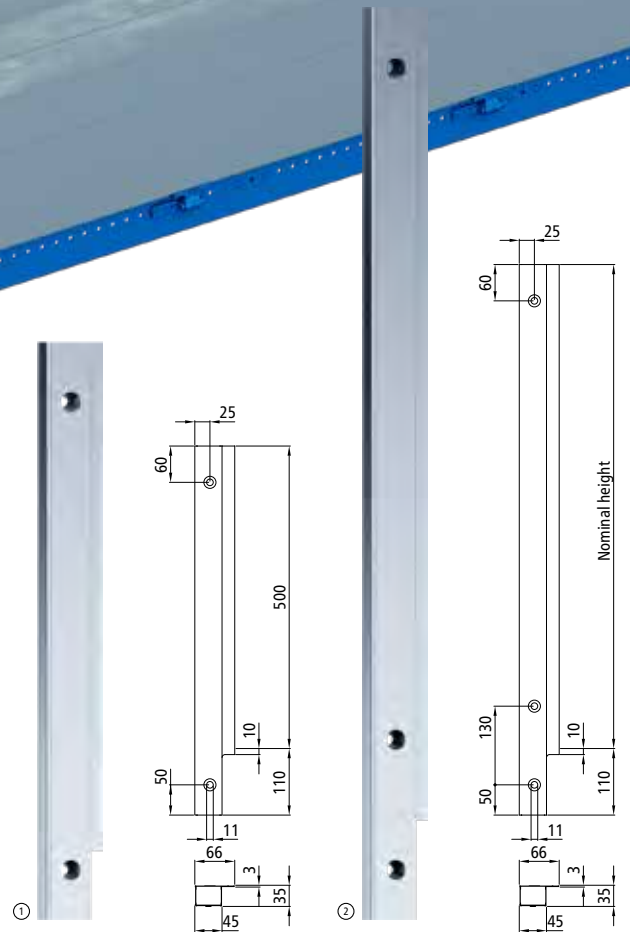
new

Blueline IL aluminium corner and centre pillars in combination with the Cargotrail SSP3 flatbed kit.



Blueline IL centre pillars, with the shapely design of the anodised aluminium body and optional black plastic caps, are a highlight of any flatbed body - visually as well as technically, as they are certified according to DIN EN 12642 XL.

The hole pattern for installing the closure pockets is pre-milled. The closure pocket for the PWP Paco latch fastener 143112767 (see page 19) is shown here.

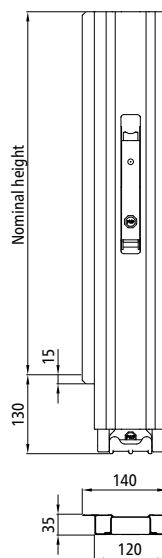
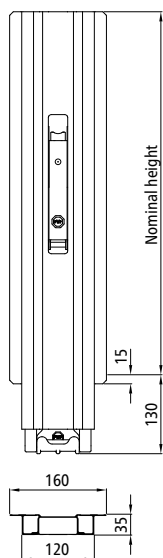


Blueline IL aluminium front corner pillars

With hole pattern for installing the closure pockets. Anodised aluminium pillar bodies.

Please order accessories separately.

Item number	Pos.	Nominal height [mm]	Version	Weight [kg]
143112816	1	400	left	0.52
143112817	1	400	right	0.52
143112810	1	500	left	0.63
143112811	1	500	right	0.63
143112812	2	600	left	0.73
143112813	2	600	right	0.73
143112814	2	800	left	0.95
143112815	2	800	right	0.95



Blueline IL aluminium centre pillars

With hole pattern for installing the closure pockets. Anodised aluminium pillar bodies, black KTL-coated steel components.
Please order pillar mountings and accessories separately.

Item number	Nominal height [mm]	Weight [kg]
143112784	400	5.00
143112785	500	5.30
143112786	600	5.90
143112787	800	6.50

Blueline IL aluminium rear corner pillars

With hole pattern for installing the closure pockets. Anodised aluminium pillar bodies, black KTL-coated steel components.
Please order pillar mountings and accessories separately.

Item number	Nominal height [mm]	Version	Weight [kg]
143112706	400	left	4.90
143112707	400	right	4.90
143112708	500	left	5.20
143112709	500	right	5.20
143112710	600	left	5.75
143112711	600	right	5.75
143112712	800	left	6.30
143112713	800	right	6.30

All corner pillars on these two pages are shown in their left-hand version.



The BlueLine DL aluminium corner and centre pillars mounted on the Cargotrail SSP3 building materials flatbed.



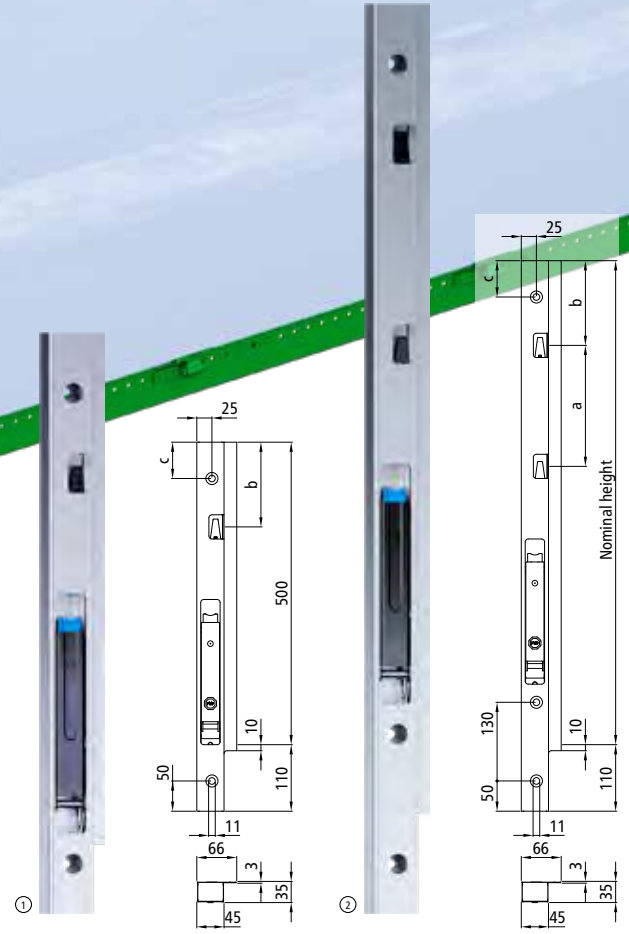
Position of upper mounting hole for BlueLine DL front corner pillars.
M10 screws with heads according to DIN 6912 or ISO 7380 can be used for installation



Single-handed operation is a key feature of our new BlueLine DL aluminium pillars. To open the side wall and/or unlock the pillar from the pillar mounting, simply actuate the lever.

The BlueLine DL aluminium pillar lock in the pillar mounting is additionally held in place by means of a spring, independently of the lever - a dual locking mechanism.

A single spring-loaded locking latch adjusts each side board locking mechanism independently of the closure pocket/side board. Even a closure pocket which is badly positioned on the side board will lock the BlueLine DL aluminium pillar quickly and safely.

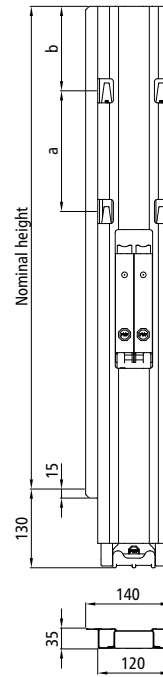
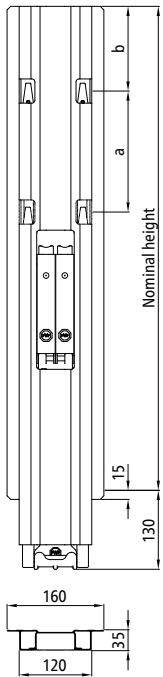


BlueLine DL front aluminium corner pillars

Anodised aluminium pillar bodies, black KTL-coated steel components.

Please order accessories separately.

Item number	Pos.	Nominal height [mm]	Dim. a [mm]	Dim. b [mm]	Dim. c [mm]	Version	Weight [kg]
143112808	1	400	--	40	43	left	1.30
143112715	1	400	--	40	43	right	1.30
143112800	1	500	--	140	60	left	1.41
143112801	1	500	--	140	60	right	1.41
143112802	1	600	--	140	60	left	1.52
143112803	1	600	--	140	60	right	1.52
143112804	2	800	200	140	60	left	2.15
143112805	2	800	200	140	60	right	2.15
143112806	2	1000	400	140	60	left	2.47
143112807	2	1000	400	140	60	right	2.47



Blueline DL aluminium centre pillars

Anodised aluminium pillar bodies, black KTL-coated steel components.
Please order pillar mountings and accessories separately.

Item number	Pos.	Nominal height [mm]	Dim. a [mm]	Dim. b [mm]	Weight [kg]
143112717	1	400	--	40	5.50
143112714	1	500	--	140	5.80
143112719	1	600	--	140	6.30
143112724	2	800	200	140	7.50
143112729	2	1000	400	140	8.30

Blueline DL aluminium rear corner pillars

Anodised aluminium pillar bodies, black KTL-coated steel components.
Please order accessories separately.

Item number	Pos.	Nominal height [mm]	Dim. a [mm]	Dim. b [mm]	Version	Weight [kg]
143112720	3	400	--	40	left	5.40
143112722	3	400	--	40	right	5.40
143112716	3	500	--	140	left	5.70
143112718	3	500	--	140	right	5.70
143112721	3	600	--	140	left	6.20
143112723	3	600	--	140	right	6.20
143112726	4	800	200	140	left	7.35
143112728	4	800	200	140	right	7.35
143112731	4	1000	400	140	left	8.10
143112733	4	1000	400	140	right	8.10

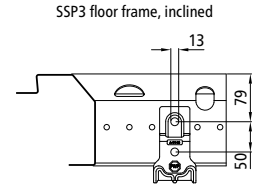
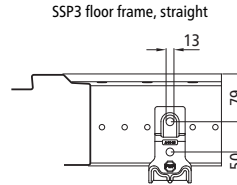
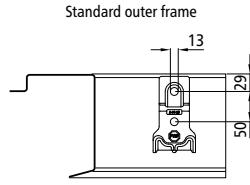
Blueline pillars, aluminium - Summary of technical data



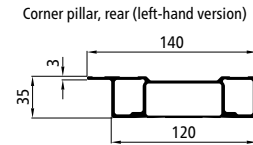
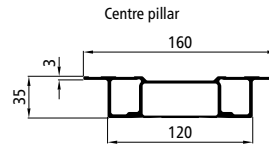
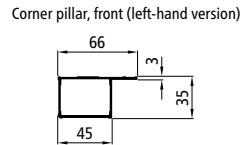
Blueline pillar mounting - Position on vehicle frame

Blueline pillar mounting **143112772** is used throughout the Blueline pillar system. In this way, Blueline aluminium pillars, as well as Blueline CS Standard, Short and Aluminium for CS Structure centre pillars can be interchanged without any problems.

The hole pattern for Blueline pillar mountings and their position on the outer frame is externally identical to the mounting dimensions of the centre pillars of many well-known European manufacturers - in many cases, when making repairs, it is very easy to replace an existing pillar with a Blueline rear centre or corner pillar.



Profile cross-sections



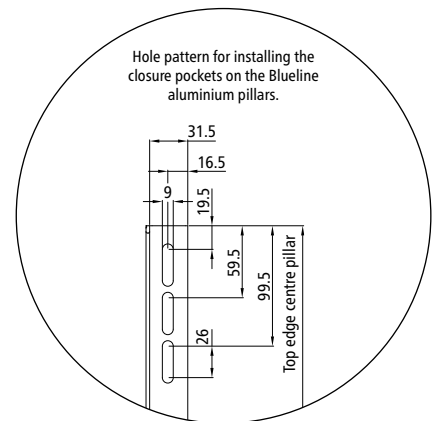
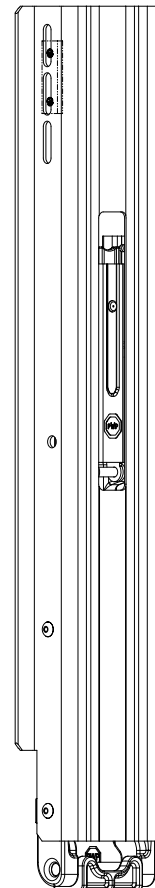
Side boards

Two closure pockets have been developed to connect the side boards to the Blueline aluminium pillars. For side boards with sliding latches, closure pocket **215131487**, as well as closure pockets **385102886** and **385102887** are suitable for the PWP Paco latch fastener (see page 19). These closure pockets should be screwed onto the pillar profile using threaded plate **385102937**.

Closure pocket set **101121491** can be used to lock the rear wall to the rear corner pillar using the PWP Paco latch fastener. The set includes a closure pocket, threaded plate and screws.

It is also possible to use any other lock, provided that the closure pockets are mounted on threaded plates.

The hole pattern for installing the closure pockets is already present in the pillar profile of the Blueline aluminium pillar (see illustrations).



Side boards for Blueline DL pillars

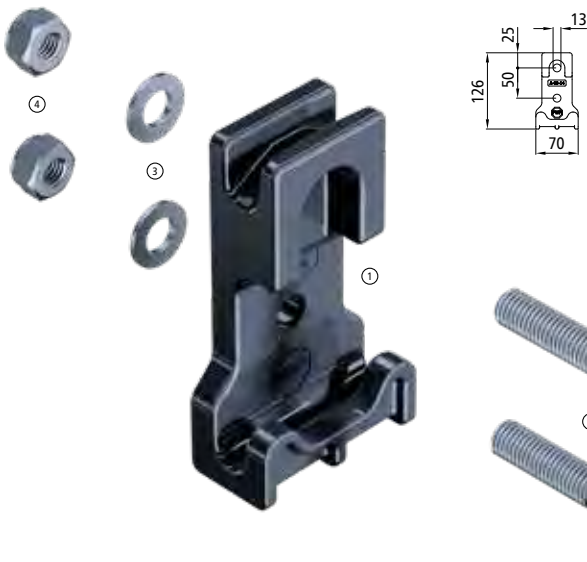
Closure pocket **143112745** and the corresponding threaded plate **143112746** are available for sliding latches integrated into the pillar. This combination is suitable for all pillar/side board positions, as well as for locking the rear wall to the rear corner pillars.

Certification according to DIN EN 12642 XL

The following Blueline aluminium centre pillars are certified in combination with the Cargotrail SSP3 flatbed structure (flatbed & building materials flatbed versions) according to DIN EN 12642 Code XL.

Test technical data: Flatbed structure internal clear length 7700 mm, 1 centre pillar per longitudinal side, centrally mounted centre pillar.

Item number	Nominal height [mm]	Payload [t]	Remarks
143112785	500	≤ 12	Side boards with PWP Paco latch fastener (see page 19)
143112786	600	≤ 12	Side boards with PWP Paco latch fastener (see page 19)
143112787	800	≤ 9.6	Side boards with TWINLOCK sliding dual-lock latch (see page 23)
143112787	800	≤ 9.6	Side boards with PWP Paco latch fastener (see page 19)



Pillar mounting

Pos. 1, steel, black KTL-coated, weight 0.69 kg.

143112772

Pillar mounting screw set

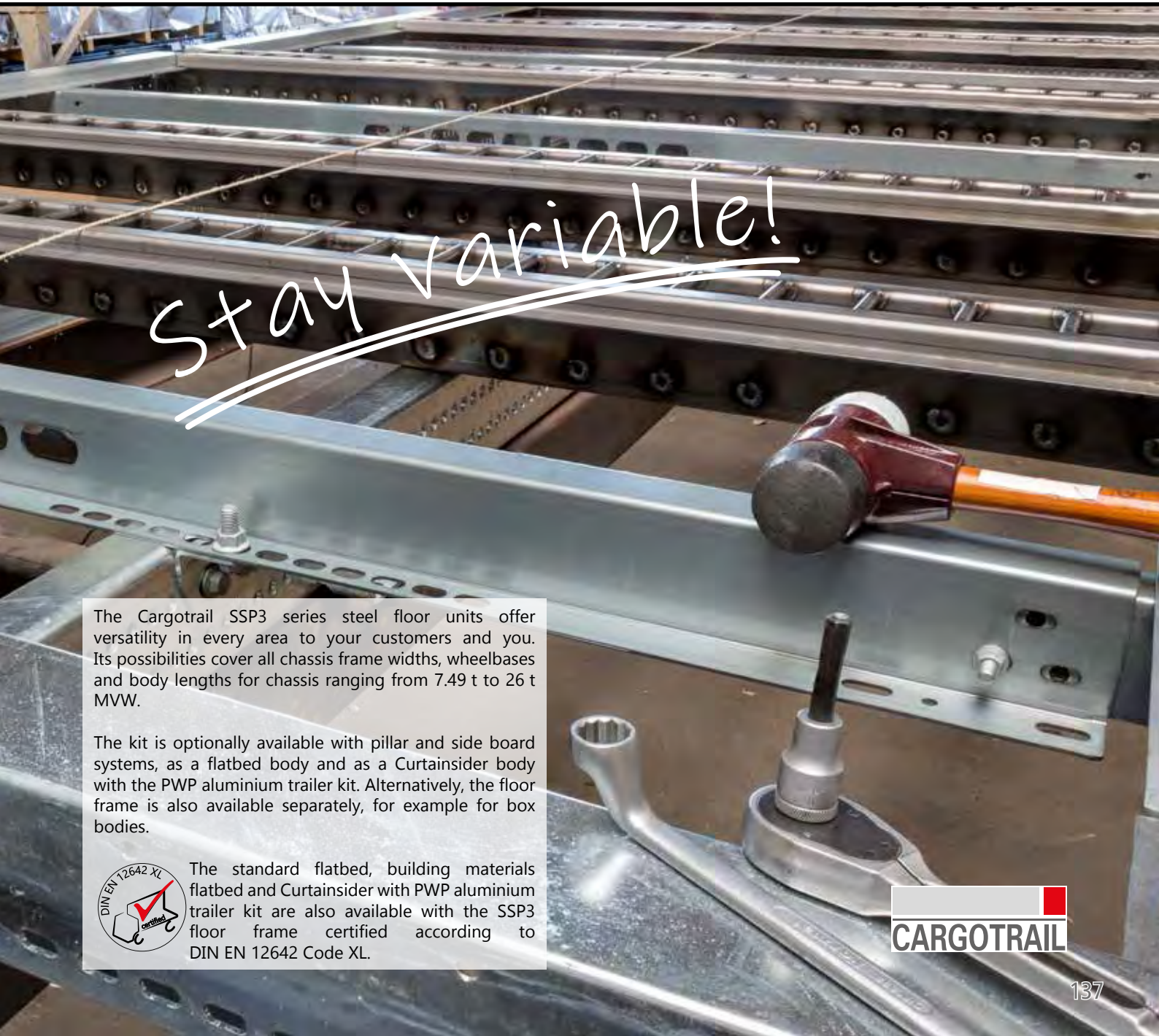
Pos. 2, 3 and 4. Contents:

2 × Allen screws DIN 912 - M12 × 60 - 12.9,

2 × plain washers, DIN 125 - B 13,

2 × hex nuts with clamping part DIN 985 - M12.8

670910077



Stay variable!

The Cargotrail SSP3 series steel floor units offer versatility in every area to your customers and you. Its possibilities cover all chassis frame widths, wheelbases and body lengths for chassis ranging from 7.49 t to 26 t MVW.

The kit is optionally available with pillar and side board systems, as a flatbed body and as a Curtainsider body with the PWP aluminium trailer kit. Alternatively, the floor frame is also available separately, for example for box bodies.



The standard flatbed, building materials flatbed and Curtainsider with PWP aluminium trailer kit are also available with the SSP3 floor frame certified according to DIN EN 12642 Code XL.

Plastic caps

For Blueline and Blueline DL aluminium front corner pillars, black plastic, weight 0.01 kg.

143112818



Plastic caps

For Blueline and Blueline DL centre and corner aluminium pillars, black plastic, weight 0.02 kg.

143112705

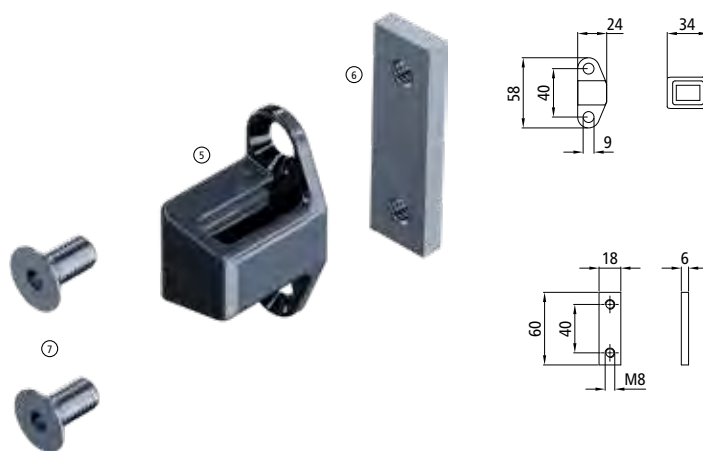


Closure pocket for sliding latches

Pos. 5, steel, black KTL-coated, weight 0.08 kg.

Suitable for all normal sliding latches in the Suer range.

215131487



Mounting set for closure pocket for sliding latches

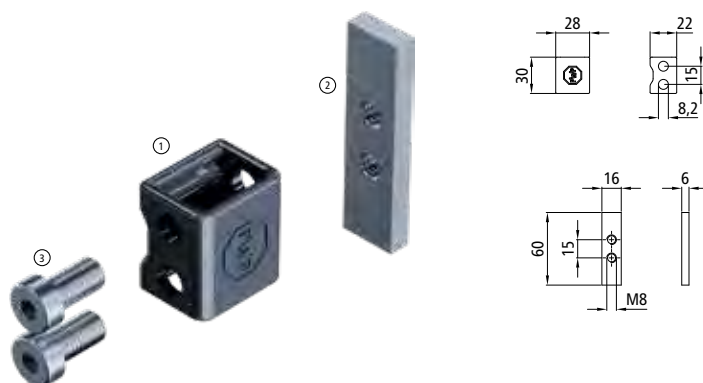
Consisting of 1 × threaded plate 385102937 (Pos. 6) and 2 × Allen screws 646129129 M8 × 16 - 10.9 according to DIN 7991/ISO 10642 (Pos. 7).

143112820

Closure pocket for Blueline DL pillars

Pos. 1, steel, black KTL-coated, weight 0.05 kg.

143112745

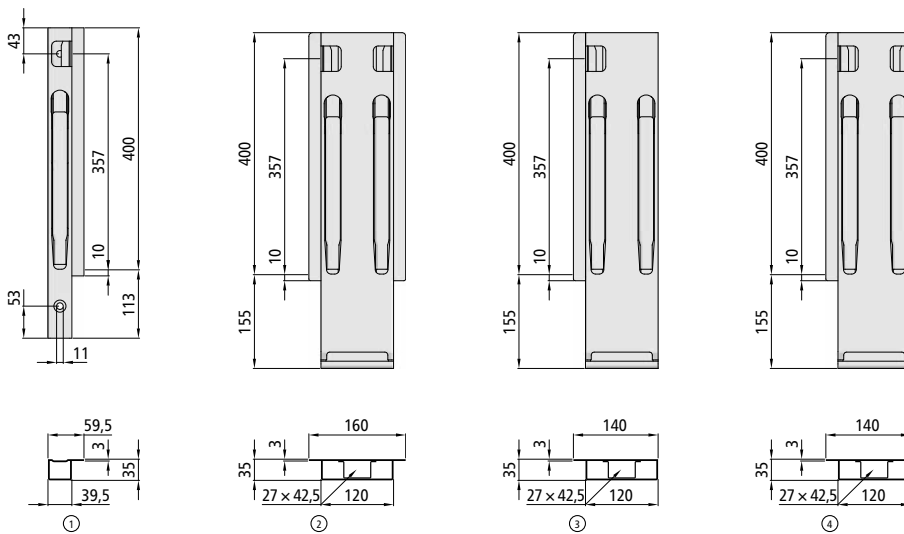


Mounting set for Blueline DL closure pocket

Consisting of 1 × threaded plate 143112746 (Pos. 2) and 2 × Allen screws 963976150 M8 × 16 - 8.8 according to DIN 7984 (Pos. 3).

143112819

The following applies for all K20 pillars: Please order pillar mountings and accessories separately.
The left-hand versions of pillars with left/right-hand versions are always shown.



K20 front corner pillar for 400 mm side board height

Pos. 1, steel corner pillar, threaded version.

Item number	Version	Weight [kg]
106121439	left, black KTL-coated	2.40
106121440	right, black KTL-coated	2.40
106122246	left, microZINQ® 5	2.50
106122247	right, microZINQ® 5	2.50

K20 centre pillar for 400 mm side board height

Pos. 2, steel side pillar.

Item number	Version	Weight [kg]
106121250	black KTL-coated	7.90
106122250	microZINQ® 5	7.90

K20 rear corner pillar for 400 mm side board height

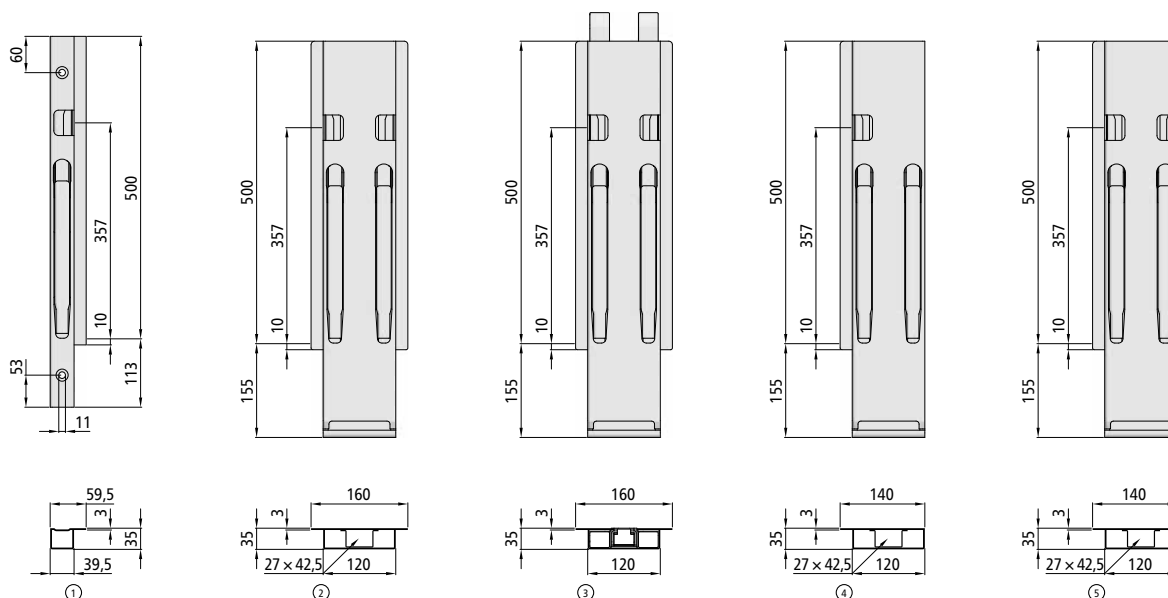
Pos. 3, steel corner pillar with no latch for rear wall (EV).

Item number	Version	Weight [kg]
106121254	left, black KTL-coated	7.60
106121255	right, black KTL-coated	7.60
106121947	left, microZINQ® 5	7.60
106121948	right, microZINQ® 5	7.60

K20 rear corner pillar for 400 mm side board height

Pos. 4, steel corner pillar with latch for rear wall (DV).

Item number	Version	Weight [kg]
106121256	left, black KTL-coated	7.70
106121257	right, black KTL-coated	7.70
106122256	left, microZINQ® 5	7.70
106122257	right, microZINQ® 5	7.70



K20 front corner pillar for 500 mm side board height

Pos. 1, steel corner pillar, threaded version.

Item number	Version	Weight [kg]
106121441	left, black KTL-coated	2.80
106121442	right, black KTL-coated	2.80
106122258	left, microZINQ® 5	2.80
106122259	right, microZINQ® 5	2.80

K20 centre pillar for 500 mm side board height

Pos. 2, steel side pillar with no receptacle for Kinnetop.

Item number	Version	Weight [kg]
106121262	black KTL-coated	8.90
106122262	microZINQ® 5	8.90

K20 Kinnetop centre pillar for 500 mm side board height

Pos. 3, steel side pillar with receptacle for Kinnetop.

Item number	Version	Weight [kg]
106121263	black KTL-coated	8.60
106122263	microZINQ® 5	8.60

K20 rear corner pillar for 500 mm side board height

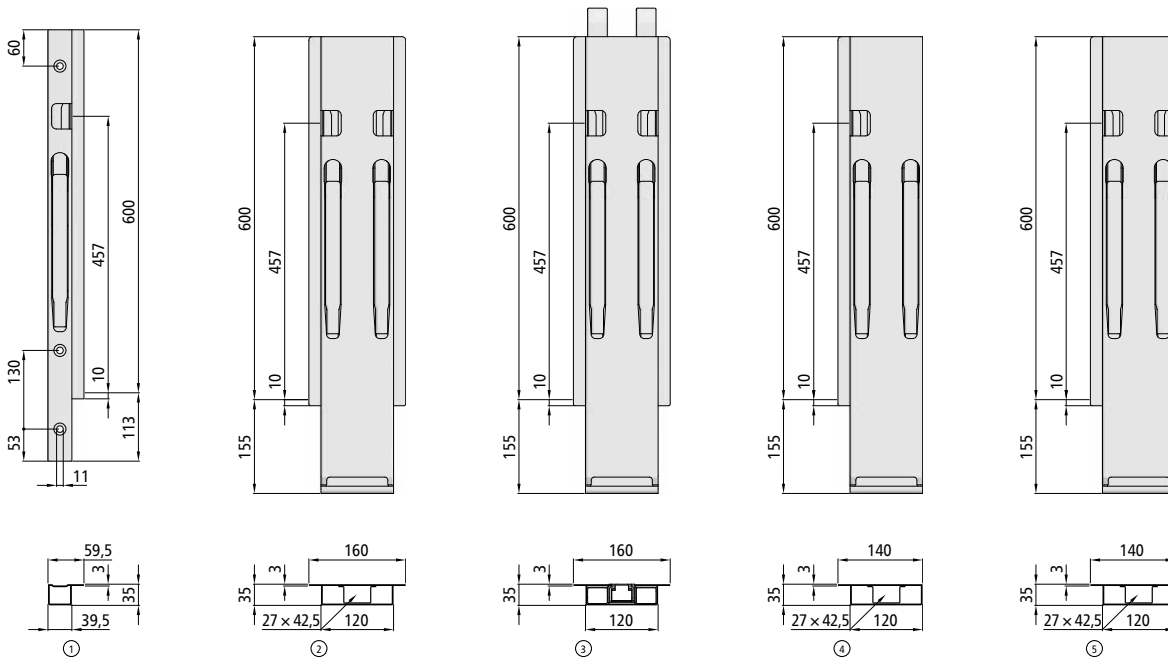
Pos. 4, steel corner pillar with no latch for rear wall (EV).

Item number	Version	Weight [kg]
106121266	left, black KTL-coated	8.60
106121267	right, black KTL-coated	8.60
106122266	left, microZINQ® 5	8.60
106122267	right, microZINQ® 5	8.60

K20 rear corner pillar for 500 mm side board height

Pos. 5, steel corner pillar with latch for rear wall (DV).

Item number	Version	Weight [kg]
106121268	left, black KTL-coated	8.70
106121269	right, black KTL-coated	8.70
106122268	left, microZINQ® 5	8.70
106122269	right, microZINQ® 5	8.70



K20 front corner pillar for 600 mm side board height

Pos. 1, steel corner pillar, threaded version.

Item number	Version	Weight [kg]
106121443	left, black KTL-coated	3.10
106121444	right, black KTL-coated	3.10
106122270	left, microZINQ® 5	3.10
106122271	right, microZINQ® 5	3.10

K20 centre pillar for 600 mm side board height

Pos. 2, steel side pillar with no receptacle for Kinnetop.

Item number	Version	Weight [kg]
106121274	black KTL-coated	9.80
106122274	microZINQ® 5	9.80

K20 Kinnetop centre pillar for 600 mm side board height

Pos. 3, steel side pillar with receptacle for Kinnetop.

Item number	Version	Weight [kg]
106121275	black KTL-coated	9.50
106122275	microZINQ® 5	9.50

K20 rear corner pillar for 600 mm side board height

Pos. 4, steel corner pillar with no latch for rear wall (EV).

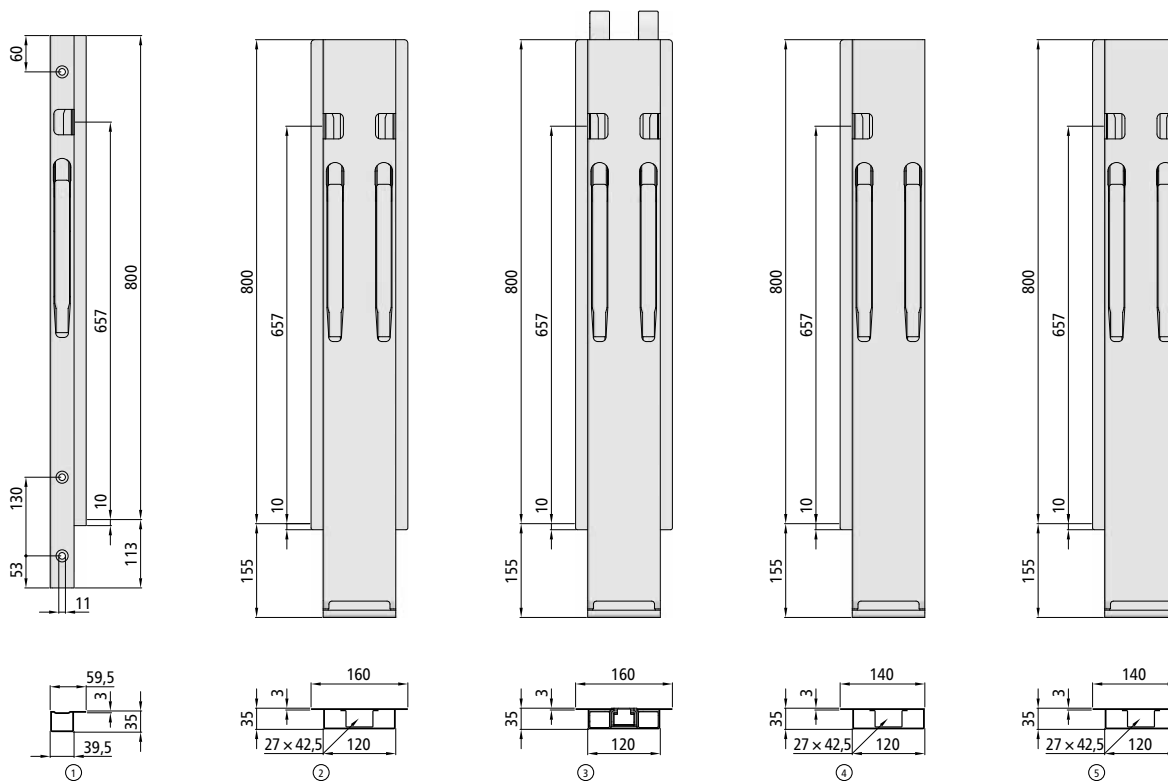
Item number	Version	Weight [kg]
106121278	left, black KTL-coated	8.60
106121279	right, black KTL-coated	8.60
106122278	left, microZINQ® 5	8.60
106122279	right, microZINQ® 5	8.60

K20 rear corner pillar for 600 mm side board height

Pos. 5, steel corner pillar with latch for rear wall (DV).

Item number	Version	Weight [kg]
106121280	left, black KTL-coated	8.70
106121281	right, black KTL-coated	8.70
106122280	left, microZINQ® 5	8.70
106122281	right, microZINQ® 5	8.70

The following applies for all K20 pillars: Please order pillar mountings and accessories separately. The left-hand versions of pillars with left/right-hand versions are always shown.



K20 front corner pillar, TIR, for 800 mm side board height

Pos. 1, steel corner pillar, TIR version, threaded version.

Item number	Version	Weight [kg]
106121447	left, black KTL-coated	4.10
106121448	right, black KTL-coated	4.10

K20 centre pillar, TIR, for 800 mm side board height

Pos. 2, steel side pillar, TIR version, with no receptacle for Kinnetop.

Item number	Version	Weight [kg]
106121286	black KTL-coated	12.10

K20 Kinnetop centre pillar, TIR, for 800 mm side board height

Pos. 3, steel side pillar, TIR version, with receptacle for Kinnetop.

Item number	Version	Weight [kg]
106121287	black KTL-coated	11.80

K20 rear corner pillar, TIR, for 800 mm side board height

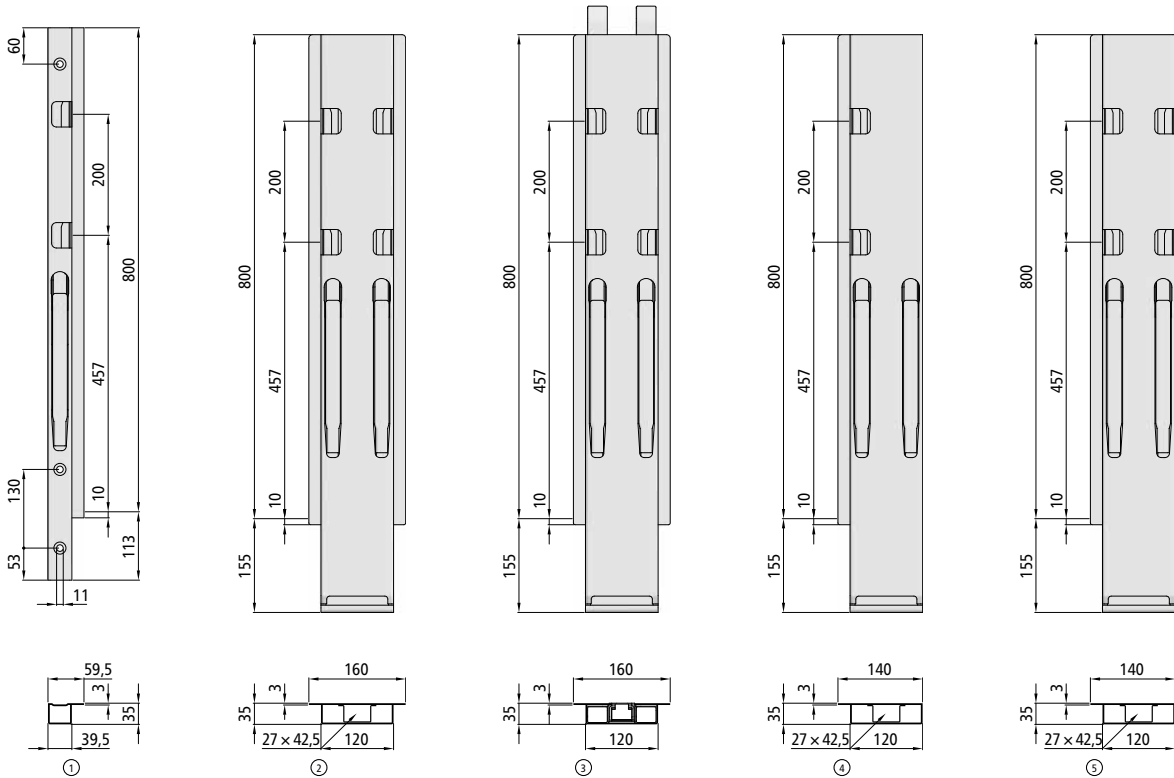
Pos. 4, steel corner pillar, TIR version, with no latch for rear wall (EV).

Item number	Version	Weight [kg]
106121290	left, black KTL-coated	11.90
106121291	right, black KTL-coated	11.90

K20 rear corner pillar, TIR, for 800 mm side board height

Pos. 5, steel corner pillar, TIR version, with latch for rear wall (DV).

Item number	Version	Weight [kg]
106121292	left, black KTL-coated	11.70
106121293	right, black KTL-coated	11.70



K20 front corner pillar for 800 mm side board height

Pos. 1, steel corner pillar, threaded version.

Item number	Version	Weight [kg]
106121445	left, black KTL-coated	4.00
106121446	right, black KTL-coated	4.00
106122294	left, microZINQ® 5	4.00
106122295	right, microZINQ® 5	4.00

K20 centre pillar for 800 mm side board height

Pos. 2, steel side pillar with no receptacle for Kinnetop.

Item number	Version	Weight [kg]
106121298	black KTL-coated	12.00
106122298	microZINQ® 5	12.00

K20 Kinnetop centre pillar for 800 mm side board height

Pos. 3, steel side pillar with receptacle for Kinnetop.

Item number	Version	Weight [kg]
106121299	black KTL-coated	11.80
106122299	microZINQ® 5	11.80

K20 rear corner pillar for 800 mm side board height

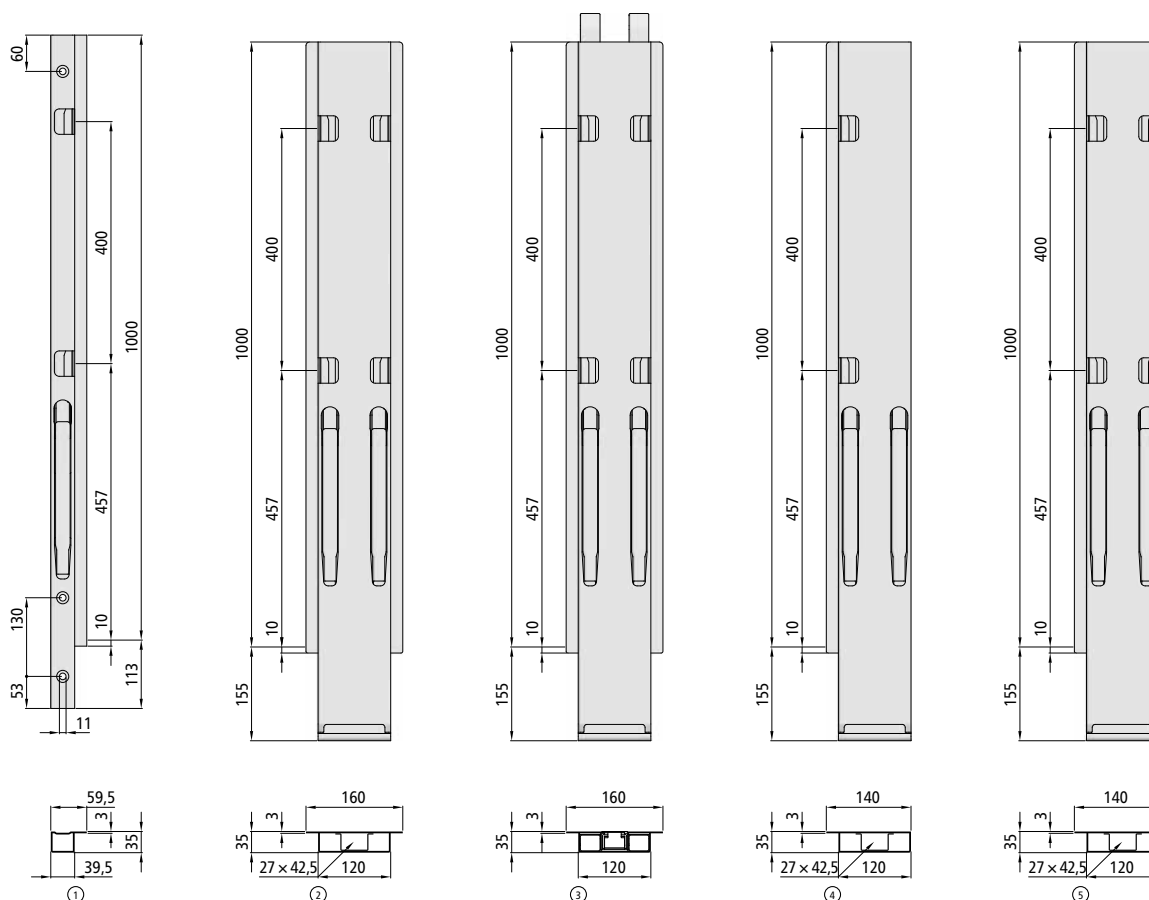
Pos. 4, steel corner pillar with no latch for rear wall (EV).

Item number	Version	Weight [kg]
106121302	left, black KTL-coated	11.70
106121303	right, black KTL-coated	11.70
106122302	left, microZINQ® 5	11.70
106122303	right, microZINQ® 5	11.70

K20 rear corner pillar for 800 mm side board height

Pos. 5, steel corner pillar with latch for rear wall (DV).

Item number	Version	Weight [kg]
106121304	left, black KTL-coated	11.60
106121305	right, black KTL-coated	11.60
106122304	left, microZINQ® 5	11.60
106122305	right, microZINQ® 5	11.60



K20 front corner pillar for 1000 mm side board height

Pos. 1, steel corner pillar, threaded version.

Item number	Version	Weight [kg]
106121451	left, black KTL-coated	4.90
106121452	right, black KTL-coated	4.90
106122306	left, microZINQ® 5	4.90
106122307	right, microZINQ® 5	4.90

K20 centre pillar for 1000 mm side board height

Pos. 2, steel side pillar with no receptacle for Kinetop.

Item number	Version	Weight [kg]
106121310	black KTL-coated	14.20
106122310	microZINQ® 5	14.20

K20 Kinetop centre pillar for 1000 mm side board height

Pos. 3, steel side pillar with receptacle for Kinetop.

Item number	Version	Weight [kg]
106121311	schwarz KTL-beschichtet	13.80
106122311	microZINQ® 5	13.80

K20 rear corner pillar for 1000 mm side board height

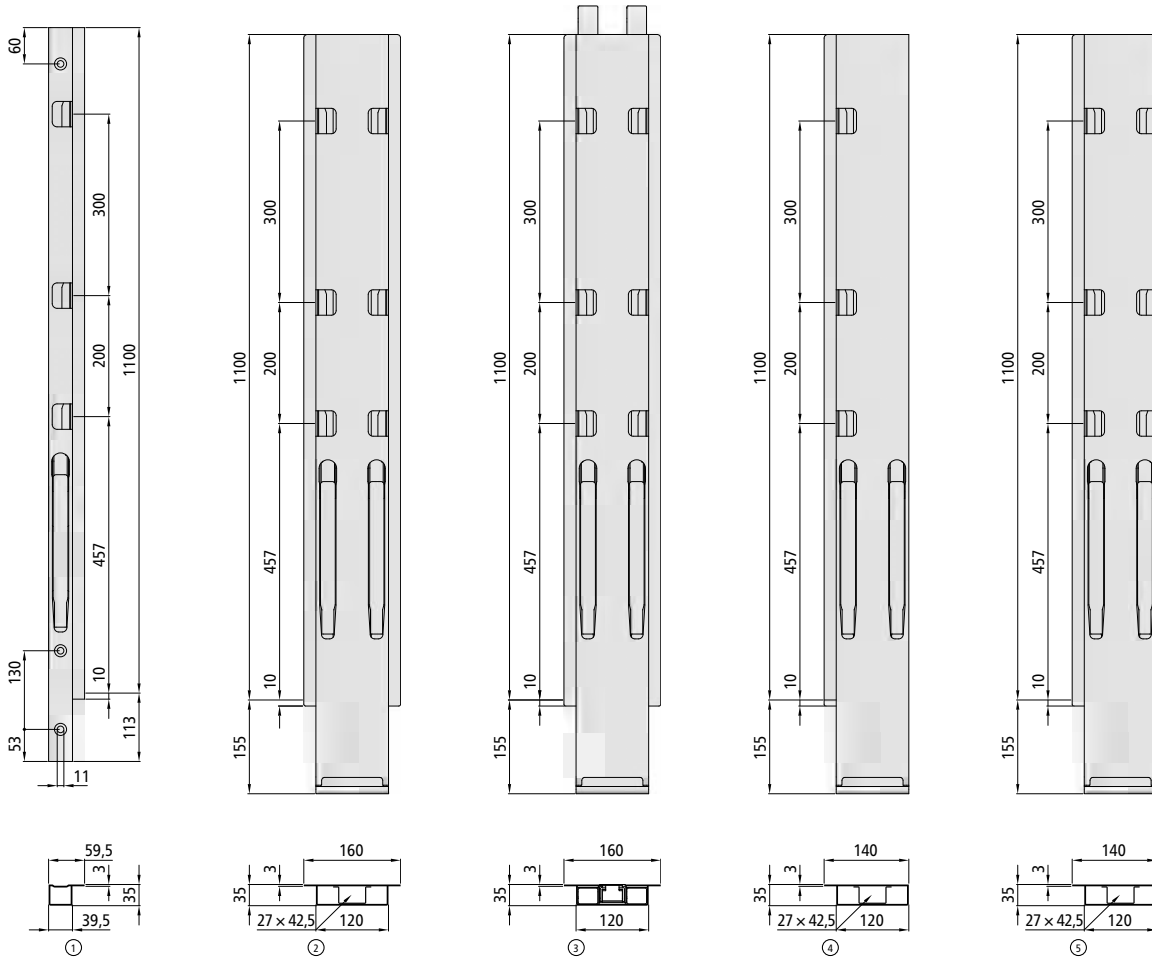
Pos. 4, steel corner pillar with no latch for rear wall (EV).

Item number	Version	Weight [kg]
106121314	left, black KTL-coated	13.50
106121315	right, black KTL-coated	13.50
106122314	left, microZINQ® 5	13.50
106122315	right, microZINQ® 5	13.50

K20 rear corner pillar for 1000 mm side board height

Pos. 5, steel corner pillar with latch for rear wall (DV).

Item number	Version	Weight [kg]
106121316	left, black KTL-coated	13.70
106121317	right, black KTL-coated	13.70
106122316	left, microZINQ® 5	13.70
106122317	right, microZINQ® 5	13.70



K20 front corner pillar for 1100 mm side board height

Pos. 1, steel corner pillar, threaded version.

Item number	Version	Weight [kg]
106121453	left, black KTL-coated	5.30
106121454	right, black KTL-coated	5.30
106122318	left, microZINQ® 5	5.30
106122319	right, microZINQ® 5	5.30

K20 centre pillar for 1100 mm side board height

Pos. 2, steel side pillar with no receptacle for Kinnnetop.

Item number	Version	Weight [kg]
106121322	black KTL-coated	15.10
106122322	microZINQ® 5	15.10

K20 Kinnnetop centre pillar for 1100 mm side board height

Pos. 3, steel side pillar with receptacle for Kinnnetop.

Item number	Version	Weight [kg]
106121323	black KTL-coated	14.80
106122323	microZINQ® 5	14.80

K20 rear corner pillar for 1100 mm side board height

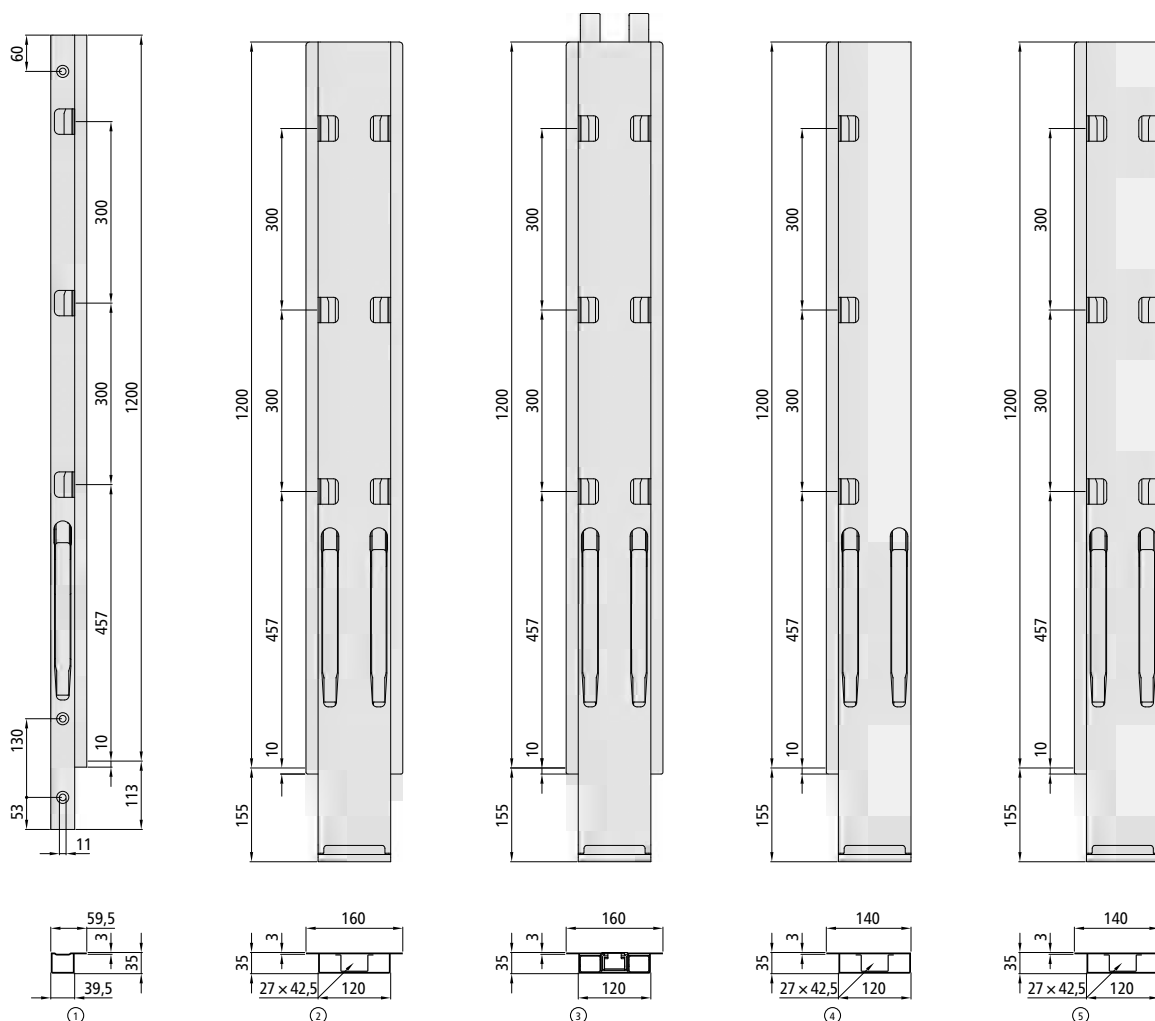
Pos. 4, steel corner pillar with no latch for rear wall (EV).

Item number	Version	Weight [kg]
106121326	left, black KTL-coated	14.40
106121327	right, black KTL-coated	14.40
106122326	left, microZINQ® 5	14.40
106122327	right, microZINQ® 5	14.40

K20 rear corner pillar for 1100 mm side board height

Pos. 5, steel corner pillar with latch for rear wall (DV).

Item number	Version	Weight [kg]
106121328	left, black KTL-coated	14.60
106121329	right, black KTL-coated	14.60
106122328	left, microZINQ® 5	14.60
106122329	right, microZINQ® 5	14.60



K20 front corner pillar for 1200 mm side board height

Pos. 1, steel corner pillar, threaded version.

Item number	Version	Weight [kg]
106121455	left, black KTL-coated	5.70
106121456	right, black KTL-coated	5.70
106122330	left, microZINQ® 5	5.70
106122331	right, microZINQ® 5	5.70

K20 centre pillar for 1200 mm side board height

Pos. 2, steel side pillar with no receptacle for Kinetop.

Item number	Version	Weight [kg]
106121334	black KTL-coated	16.80
106122334	microZINQ® 5	16.80

K20 Kinetop centre pillar for 1200 mm side board height

Pos. 3, steel side pillar with receptacle for Kinetop.

Item number	Version	Weight [kg]
106121335	black KTL-coated	16.40
106122335	microZINQ® 5	16.40

K20 rear corner pillar for 1200 mm side board height

Pos. 4, steel corner pillar with no latch for rear wall (EV).

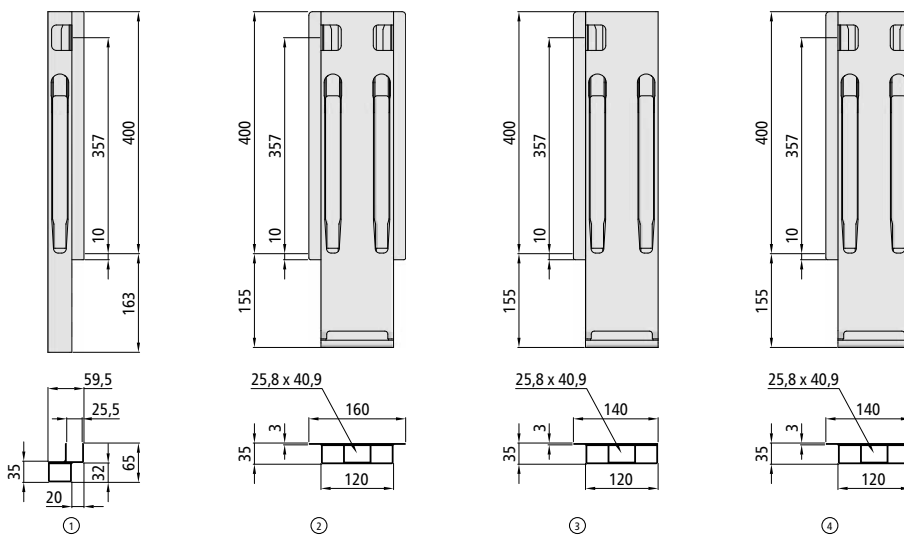
Item number	Version	Weight [kg]
106121338	left, black KTL-coated	15.70
106121339	right, black KTL-coated	15.70
106122338	left, microZINQ® 5	15.70
106122339	right, microZINQ® 5	15.70

K20 rear corner pillar for 1200 mm side board height

Pos. 5, steel corner pillar with latch for rear wall (DV).

Item number	Version	Weight [kg]
106121340	left, black KTL-coated	16.20
106121341	right, black KTL-coated	16.20
106122340	left, microZINQ® 5	16.20
106122341	right, microZINQ® 5	16.20

The following applies for all K20 pillars: Please order pillar mountings and accessories separately.
The left-hand versions of pillars with left/right-hand versions are always shown.



K20 front corner pillar for 400 mm side board height

Pos. 1, aluminium corner pillar.

Item number	Version	Weight [kg]
106121248	left, anodised aluminium	1.70
106121249	right, anodised aluminium	1.70

K20 centre pillar for 400 mm side board height

Pos. 2, aluminium side pillar with no receptacle for Kinnetop.

Item number	Version	Weight [kg]
106121251	anodised aluminium	4.70

K20 rear corner pillar for 400 mm side board height

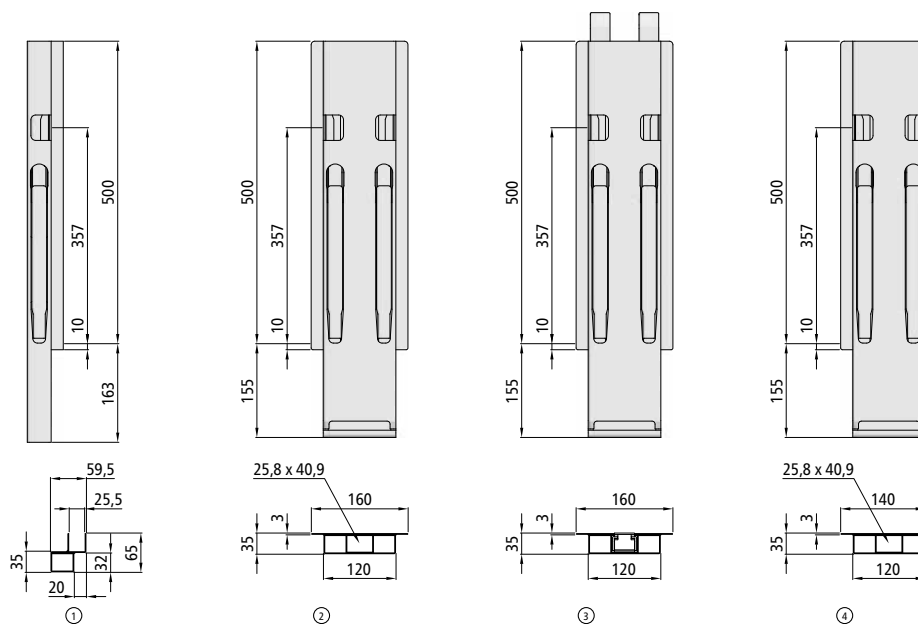
Pos. 3, aluminium corner pillar with no latch for rear wall (EV).

Item number	Version	Weight [kg]
106121368	left, anodised aluminium	4.60
106121369	right, anodised aluminium	4.60

K20 rear corner pillar for 400 mm side board height

Pos. 4, aluminium corner pillar with latch for rear wall (DV).

Item number	Version	Weight [kg]
106121370	left, anodised aluminium	4.60
106121371	right, anodised aluminium	4.60



K20 front corner pillar for 500 mm side board height

Pos. 1, aluminium corner pillar.

Item number	Version	Weight [kg]
106121260	left, anodised aluminium	1.90
106121261	right, anodised aluminium	1.90

K20 centre pillar for 500 mm side board height

Pos. 2, aluminium side pillar with no receptacle for Kinnnetop.

Item number	Version	Weight [kg]
106121264	anodised aluminium	5.10

K20 Kinnnetop centre pillar for 500 mm side board height

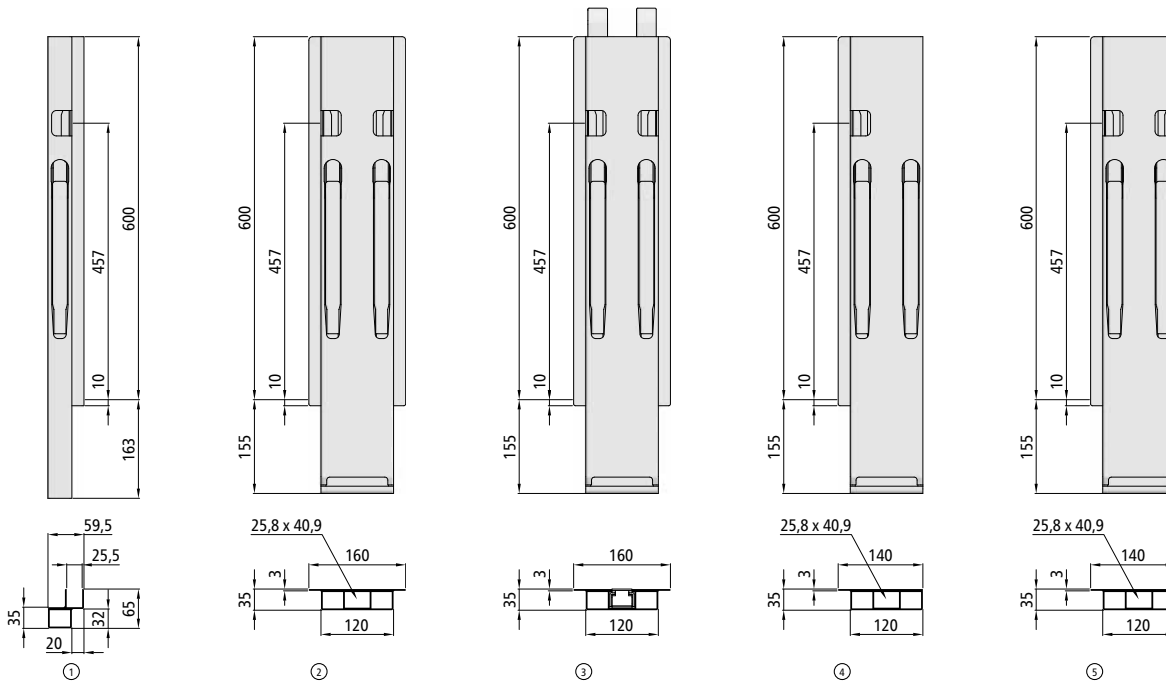
Pos. 3, aluminium side pillar with receptacle for Kinnnetop.

Item number	Version	Weight [kg]
106121265	anodised aluminium	5.00

K20 rear corner pillar for 500 mm side board height

Pos. 4, steel corner pillar with latch for rear wall (DV).

Item number	Version	Weight [kg]
106121374	left, anodised aluminium	4.90
106121375	right, anodised aluminium	4.90



K20 front corner pillar for 600 mm side board height

Pos. 1, aluminium corner pillar.

Item number	Version	Weight [kg]
106121272	left, anodised aluminium	2.10
106121273	right, anodised aluminium	2.10

K20 centre pillar for 600 mm side board height

Pos. 2, aluminium side pillar with no receptacle for Kinnetop.

Item number	Version	Weight [kg]
106121276	anodised aluminium	5.40

K20 Kinnetop centre pillar for 600 mm side board height

Pos. 3, aluminium side pillar with receptacle for Kinnetop.

Item number	Version	Weight [kg]
106121277	anodised aluminium	5.30

K20 rear corner pillar for 600 mm side board height

Pos. 4, aluminium corner pillar with no latch for rear wall (EV).

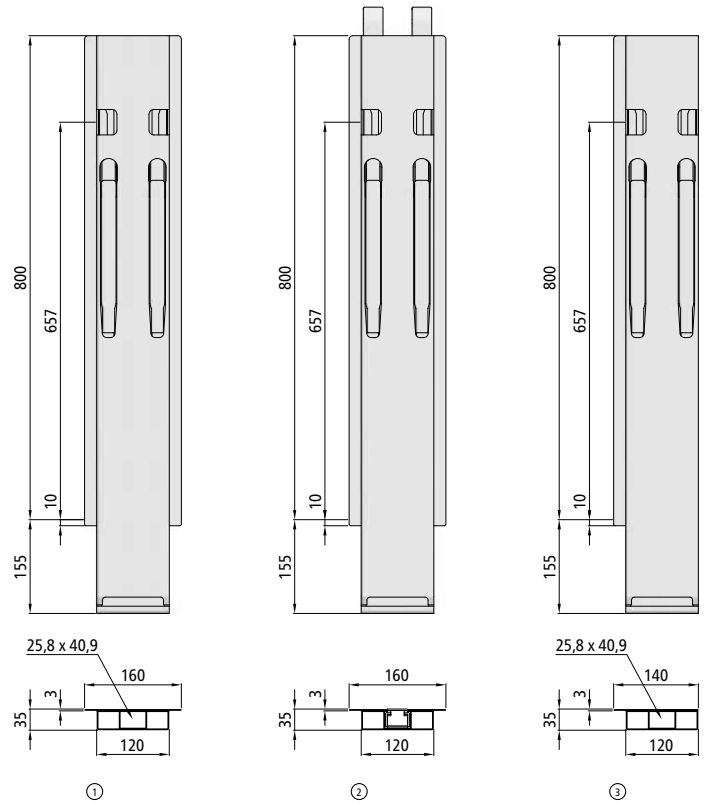
Item number	Version	Weight [kg]
106121871	left, anodised aluminium	5.10
106121872	right, anodised aluminium	5.10

K20 rear corner pillar for 600 mm side board height

Pos. 5, aluminium corner pillar with latch for rear wall (DV).

Item number	Version	Weight [kg]
106121378	left, anodised aluminium	5.20
106121379	right, anodised aluminium	5.20

The following applies for all K20 pillars: Please order pillar mountings and accessories separately.
The left-hand versions of pillars with left/right-hand versions are always shown.



K20 centre pillar, TIR, for 800 mm side board height

Pos. 1, aluminium side pillar with no receptacle for Kinnetop.

Item number	Version	Weight [kg]
106121288	anodised aluminium	6.40

K20 Kinnetop centre pillar, TIR, for 800 mm side board height

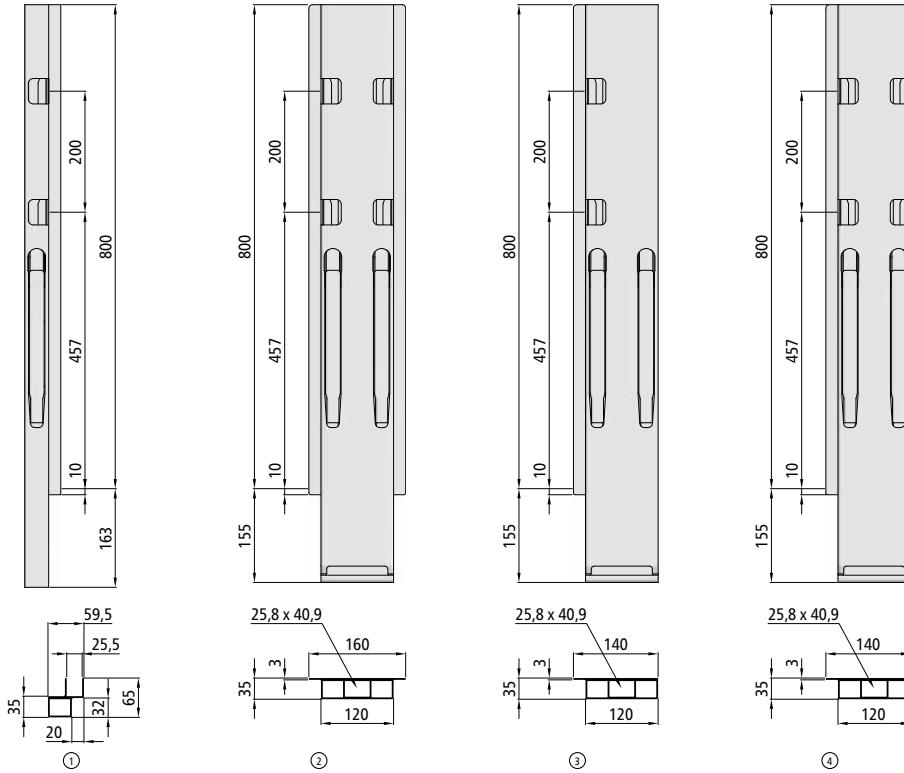
Pos. 2, aluminium side pillar with receptacle for Kinnetop.

Item number	Version	Weight [kg]
106121289	anodised aluminium	6.40

K20 rear corner pillar, TIR, for 800 mm side board height

Pos. 3, aluminium corner pillar with latch for rear wall (DV).

Item number	Version	Weight [kg]
106121382	left, anodised aluminium	6.30
106121383	right, anodised aluminium	6.30



K20 front corner pillar for 800 mm side board height

Pos. 1, aluminium corner pillar.

Item number	Version	Weight [kg]
106121296	left, anodised aluminium	2.50
106121297	right, anodised aluminium	2.50

K20 centre pillar for 800 mm side board height

Pos. 2, aluminium side pillar with no receptacle for Kinnetop.

Item number	Version	Weight [kg]
106121300	anodised aluminium	6.60

K20 rear corner pillar for 800 mm side board height

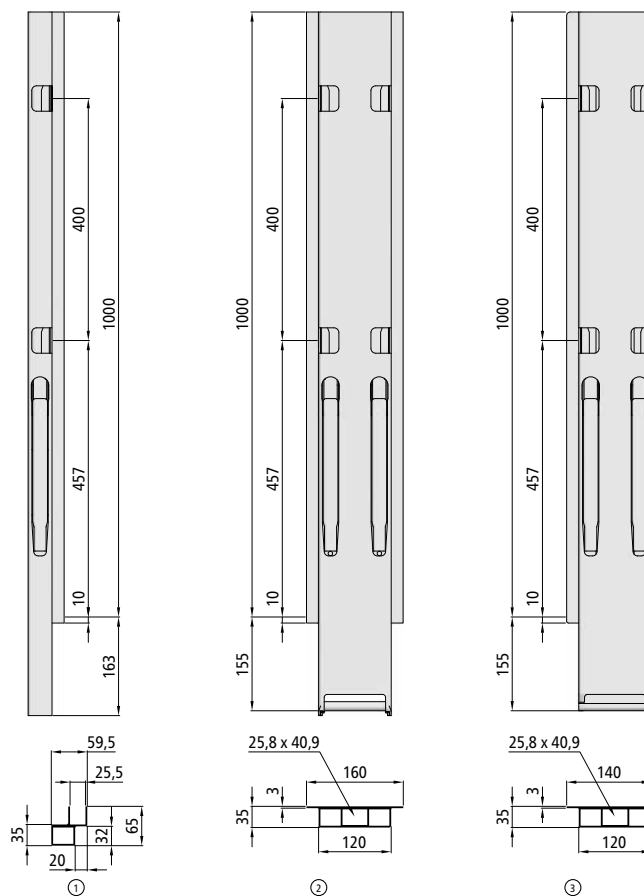
Pos. 3, aluminium corner pillar with no latch for rear wall (EV).

Item number	Version	Weight [kg]
106121930	left, anodised aluminium	6.20
106121931	right, anodised aluminium	6.20

K20 rear corner pillar for 800 mm side board height

Pos. 4, aluminium corner pillar with latch for rear wall (DV).

Item number	Version	Weight [kg]
106121386	left, anodised aluminium	6.20
106121387	right, anodised aluminium	6.20



K20 front corner pillar for 1000 mm side board height

Pos. 1, aluminium corner pillar.

Item number	Version	Weight [kg]
106121308	left, anodised aluminium	3.20
106121309	right, anodised aluminium	3.20

K20 centre pillar for 1000 mm side board height

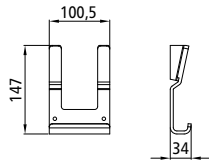
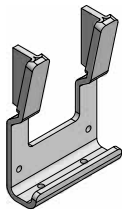
Pos. 2, aluminium side pillar with no receptacle for Kinnnetop.

Item number	Version	Weight [kg]
106121312	anodised aluminium	7.60

K20 rear corner pillar for 1000 mm side board height

Pos. 3, aluminium corner pillar with latch for rear wall (DV).

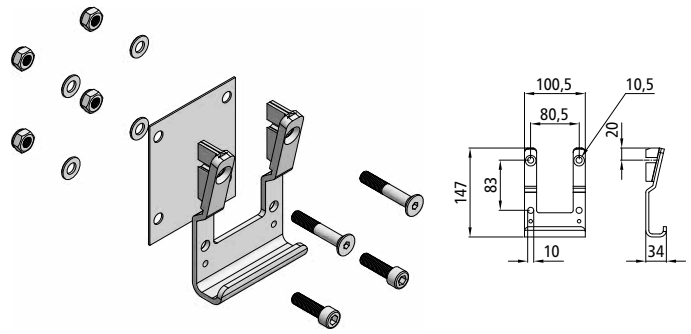
Item number	Version	Weight [kg]
106121503	left, anodised aluminium	7.40
106121502	right, anodised aluminium	7.40



Pillar mounting

For weld-mounting, raw steel, weight 0.56 kg.

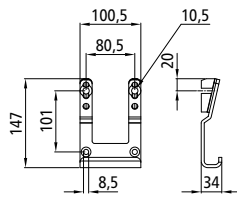
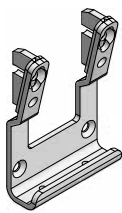
106121346



Pillar mounting

With mounting materials, zinc plated pillar mounting, weight 0.84 kg.

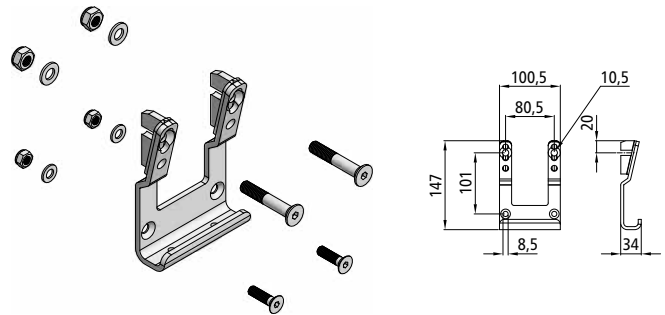
105121407



Pillar mounting

For screw-mounting, microZINQ® 5 steel, weight 0.56 kg.

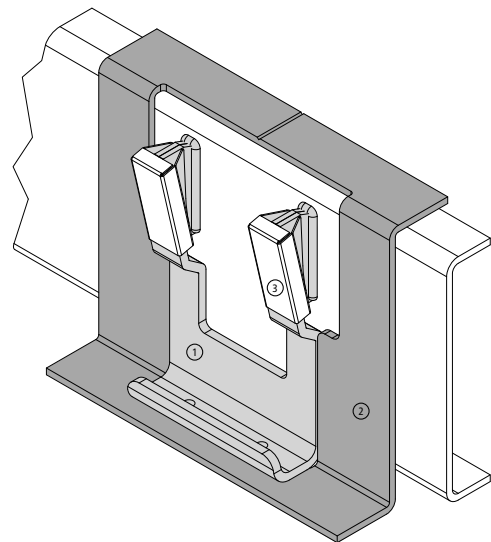
106122346



Pillar mounting

With mounting materials, microZINQ® 5 pillar mounting, weight 0.84 kg.

106121936



Welding set

Consisting of Pos. 1 pillar mounting 106121346, Pos. 2 welding gage 106121351 and Pos. 3 welding caps (2x) 106121351.

106121349

Welding gage

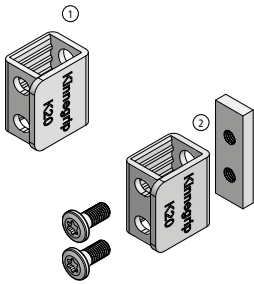
See welding set, Pos. 2.

106121351

Welding cap

See welding set, Pos. 3.

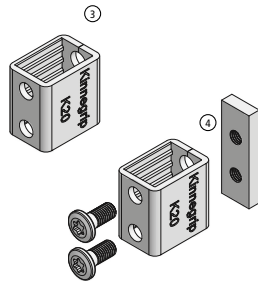
106121350



Counterholder

For side board, distance from pillar to edge 0–8 mm, partially with mounting materials, weight Gewicht 0.11 kg.

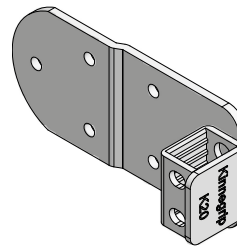
Item number	Pos.	Counterholder
106121357	1	raw
106121347	2	black
106629485	2	galvanised



Counterholder

For tailgate with edge 621182, distance from pillar to edge 0–12 mm, partially with mounting materials, weight 0.11 kg.

Item number	Pos.	Counterholder
106121515	4	raw
106121449	4	black
106121464	4	galvanised
106121855	3	hot-dip galvanised
106121938	4	hot-dip galvanised



Counterholder

For recessed tailgate, with no mounting materials, zinc plated counterholder, weight 0.30 kg.

106121356

Counterholder for pillars K20

The choice of counterholder for the "side board" / "tailgate" position should be based on the manufacturer's recommendation. In practice, the type of counterholder can be selected based on actual requirements.



What are K20 pillars actually like?

This catalogue can only provide illustrations of our K20 pillars. To give you an impression of what the pillars look like in real life, we have positioned a single pillar with 3 different surfaces and/or materials side by side, and photographed them.

Steel pillar with black KTL coating

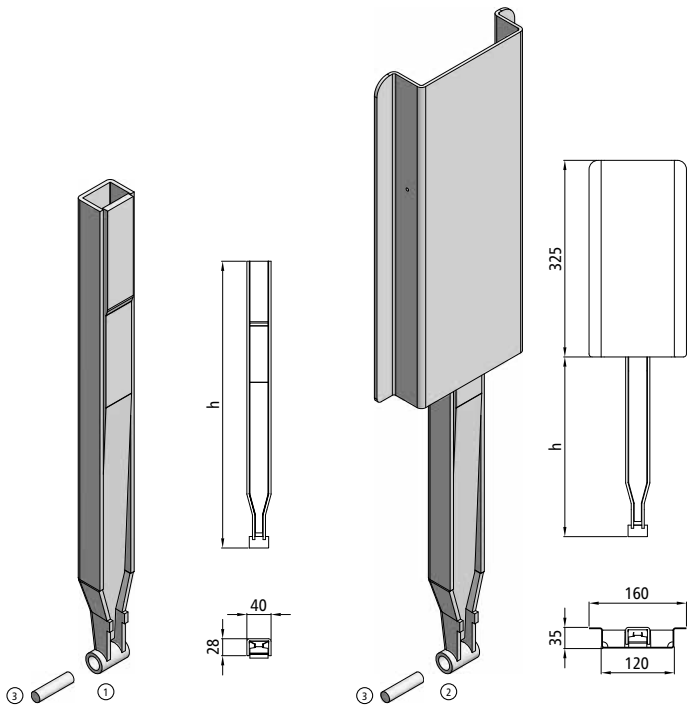
The electrode coating (KTL coating) allows excellent penetration into cavities, and provides a uniform coating, as well as an excellent external appearance. In order to ensure optimal corrosion protection, the KTL coating must always be reinforced with a powder coating or paint finish.

microZINQ® 5 steel pillar

On a hot-dip galvanised pillar (microZINQ® 5 is a kind of hot-dip galvanisation at low temperatures), a zinc-aluminium coating is applied to all of the surfaces of the pillar body. The mechanism is galvanised before receiving a black KTL coating to ensure maximum protection from corrosion. microZINQ® 5 steel parts can be painted as desired.

Aluminium pillar

On an aluminium pillar, the pillar body is anodised. As with microZINQ® 5 steel pillars, the steel mechanism is galvanised before receiving a black KTL coating.



Kinnetop tube

Pos. 1, for K20 centre pillars with Kinnetop, raw steel.

Item number	Suitable K20 centre pillars for	Dim. h [mm]	Weight [kg]
106121361	500 + 600 mm side board height	474	1.95
106121362	800 - 1200 mm side board height	574	2.29

Kinnetop support

Pos. 2, for K20 centre pillars with Kinnetop, raw steel.

Item number	Suitable K20 centre pillars for	Dim. h [mm]	Weight [kg]
106121358	500 mm side board height	297	3.57
106121359	600 mm side board height	347	3.65
106121360	800 - 1200 mm side board height	447	3.98

Screws, M8 × 16 mm

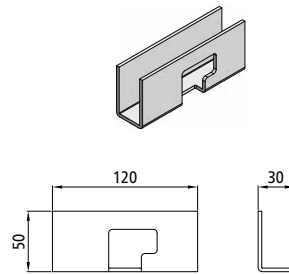
Replacement screws for the Kinnetop support receptacle integrated into the pillar. Not shown.

106121882

Bolt Ø10 × 40 mm

Pos. 3, for mounting a Kinnetop tube or support onto the pillar (for sliding pillars), raw steel, weight 0.03 kg.

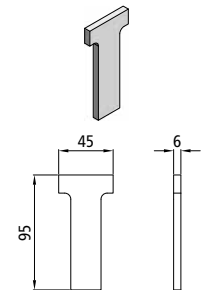
106121345



Top coupling, 120 mm

For T-strut, raw steel, weight 0.35 kg.

106121409



T-pieces

For top coupling, 120 mm, raw steel, weight 0.17 kg.

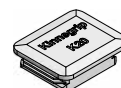
106121410



Sealing plugs

For zinc plated front corner pillar mounting holes, weight 0.01 kg.

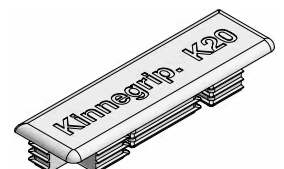
Item number	Colour
106122332	natural
106629491	black



Cover cap

For front corner pillars, black plastic, weight 0.01 kg.

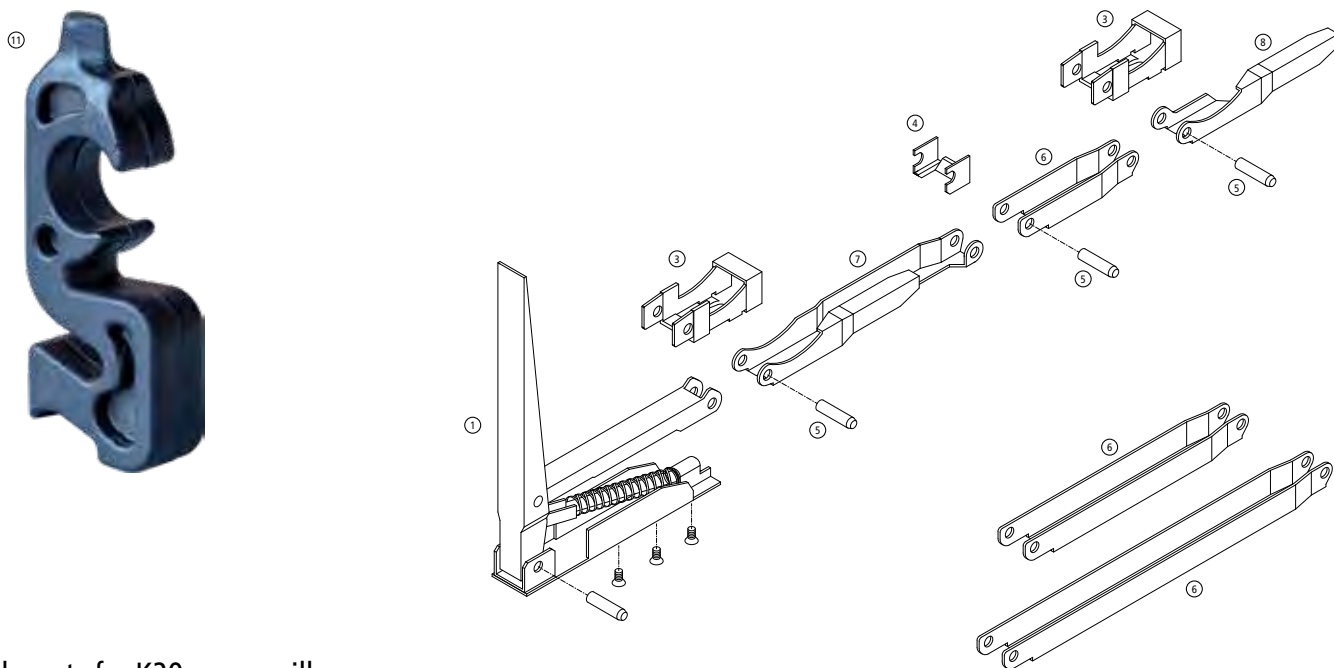
106121364



Cover cap

For centre pillars and rear corner pillars, black plastic, weight 0.05 kg.

106121408

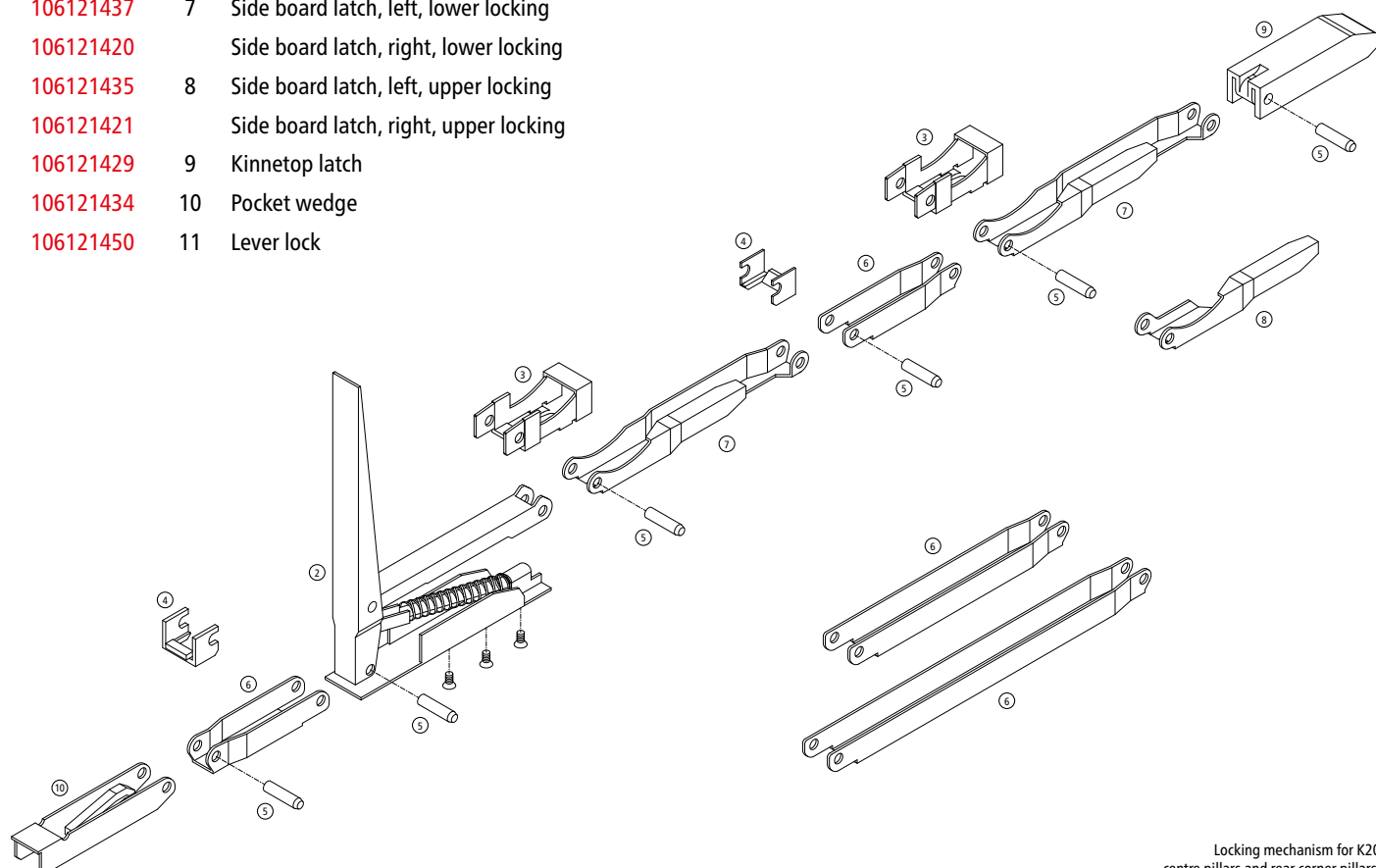


Locking mechanism for K20 front corner pillar

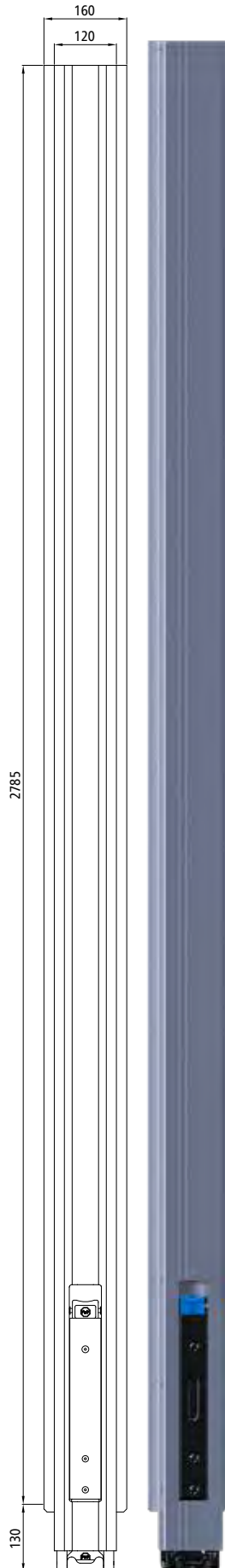
Stab parts for K20 corner pillars

The left and right labels refer to the position of the lever on the pillar.
 Certain parts are installed in several locations.

Item number	Pos.	Name
106121419	1	Lever repair set, front corner pillar
106121366	2	Lever repair set, centre pillar and rear corner pillar
106121430	3	Guide profile, large
106121432	4	Guide profile, small
106121438	5	Linkage pins, Ø 8 × 32 mm
106121433	6	Intermediate joint, hole spacing 100 mm
106121431		Intermediate joint, hole spacing 200 mm
106121436		Intermediate joint, hole spacing 300 mm
106121437	7	Side board latch, left, lower locking
106121420		Side board latch, right, lower locking
106121435	8	Side board latch, left, upper locking
106121421		Side board latch, right, upper locking
106121429	9	Kinnetop latch
106121434	10	Pocket wedge
106121450	11	Lever lock



Locking mechanism for K20 centre pillars and rear corner pillars.



Blueline CS Aluminium centre pillar

Anodised aluminium pillar bodies, black KTL-coated steel components, weight 11.92 kg.

Please order pillar mountings and accessories separately.

143112788

Slide loading heights (internal clear length)

Blueline Aluminium 143112788:

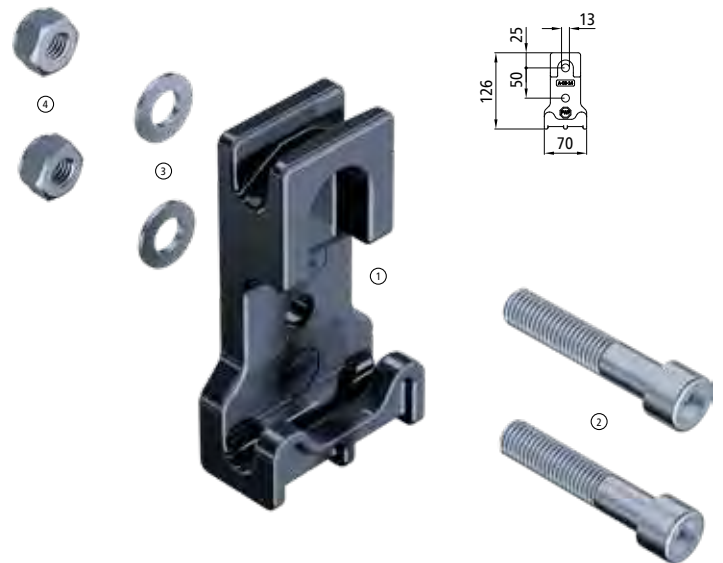
Carriage, straight (⊕ or ⊙, with ⊙)

2821 mm

Carriage, angled (⊙ with ⊕)

3000 mm

The position numbers refer to the combination of roller plate with roller plate receptacle/support plate, listed on page 160. The height dimensions refer to an installation on a standard outer frame, see "Blueline pillar mounting - Position on vehicle frame" on page 161.



Pillar mounting

Pos. 1, steel, black KTL-coated, weight 0.69 kg.

143112772

Pillar mounting screw set

Pos. 2, 3 and 4.

A description of the contents can be found on page 137.

670910077



Blueline CS centre pillars

Pillar bodies zinc plated steel (zinc-aluminium-magnesium coating), locking mechanism black KTL-coated.

Please order pillar mountings and accessories separately.

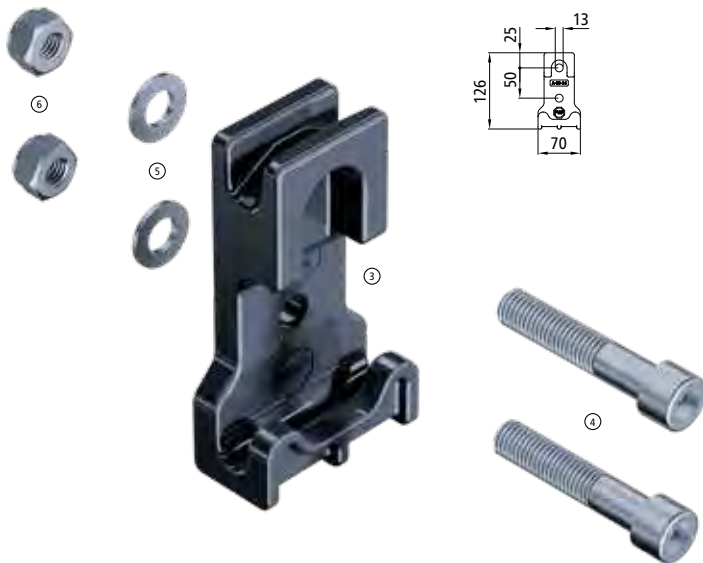
Item number	Pos.	Type	Weight [kg]
143112738	1	Short	17.25
143112789	2	Standard	19.84

Slide loading heights (internal clear length)

Blueline Short 143112738:
 Carriage, straight (④ or ⑤, with ②) 2190 - 2710 mm
 Carriage, angled (③ with ①) 2370 - 2890 mm

Blueline Standard 143112789:
 Carriage, straight (④ or ⑤, with ②) 2590 - 3110 mm
 Carriage, angled (③ with ①) 2770 - 3290 mm

The position numbers refer to the combination of roller plate with roller plate receptacle/support plate, listed on page 161. The height dimensions refer to an installation on a standard outer frame, see "Blueline pillar mounting - Position on vehicle frame" on page 161.



Pillar mounting

Pos. 3, steel, black KTL-coated, weight 0.69 kg.

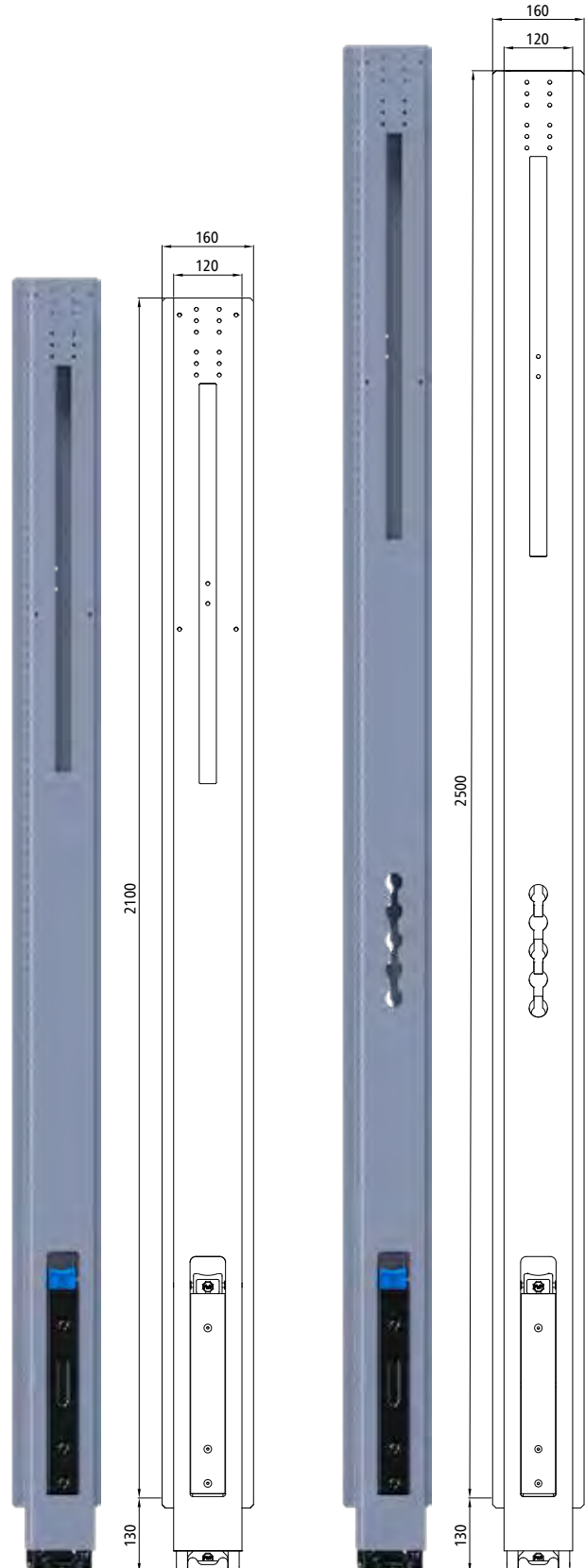
143112772

Pillar mounting screw set

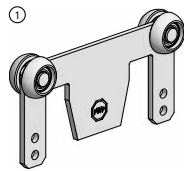
Pos. 4, 5 and 6.

A description of the contents can be found on page 137.

670910077



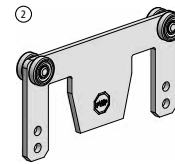
The illustrations also show accessories for Blueline CS centre pillars



Roller plate with KU rollers

Pos. 1, zinc plated steel parts, weight 0.66 kg.

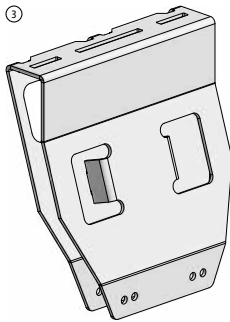
143112748



Roller plate with steel rollers

Pos. 2, zinc plated steel parts, weight 0.51 kg.

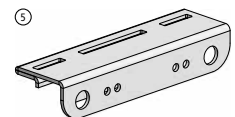
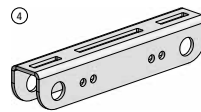
143112749



Roller plate receptacle

Pos. 3, zinc plated steel, weight 1.84 kg.

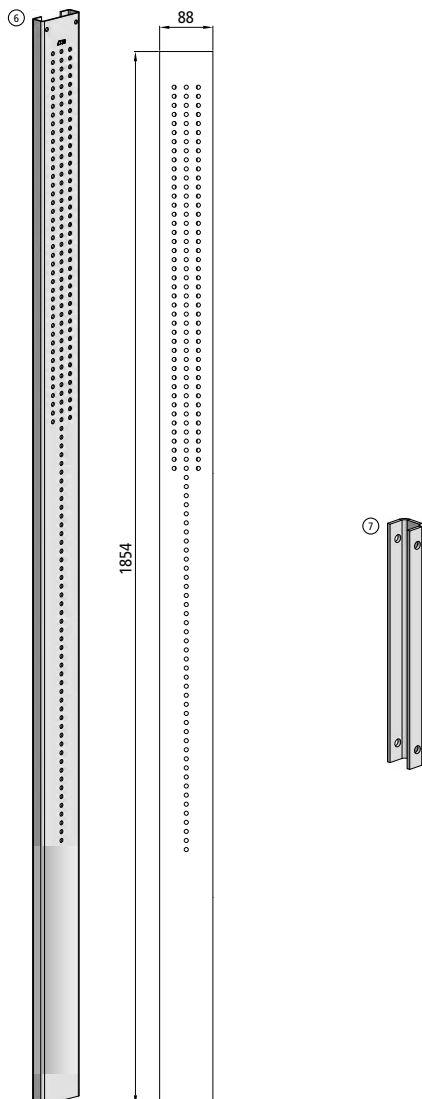
143112763



Support plates

Zinc plated steel.

Item number	Pos.	Depth [mm]	Weight [kg]
143112757	4	30	0.38
143112747	5	50	0.54



Telescopic profile

Pos. 6, zinc plated steel, weight 7.15 kg.

The telescopic profile connects the Short and Standard CS centre pillars with the support plate/roller plate receptacle. Additional telescopic function for centre pillar option for elevating roofs (Accessories, elevating roof mounting set 143112735).

143112762

Adapter rail

Pos. 7, zinc plated steel, weight 0.27 kg.

The adapter rail connects the CS Aluminium centre pillar with the support plate/roller plate receptacle.

143112764

Carriage mounting set

Pos. 8, not shown. Contents:

2 × Allen screws DIN 912 - M8 × 16 - 8.8,

2 × Hex nuts with clamping part DIN 985 - M8.8,

8 × Monobolt countersunk rivets 6.4 × 12.5 G-Bulb, steel

Screws and rivets for assembling the carriage components and installing the carriage on the Blueline CS centre pillars.

143112750

Blueline CS Aluminium centre pillar - Carriage combinations

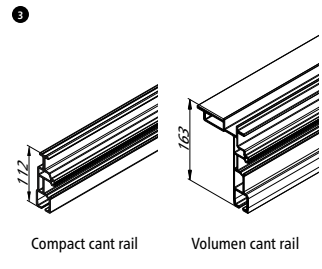
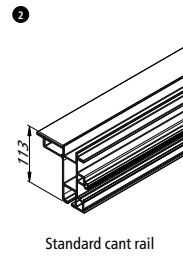
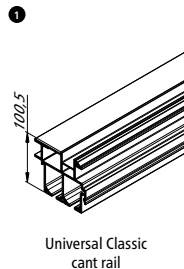
The combination of roller plates with support plates/roller plate receptacles and adapter rails allows a variety of carriages to be assembled for a Blueline CS Aluminium centre pillar using very few parts.

All of the parts are available individually, meaning that the desired version can be assembled at the last moment depending on the CS cant rail used. The position numbers in the listing can also be found in the listing of individual components on page 159.

The carriages shown comprise the following individual parts:

① For Universal Classic cant rail:

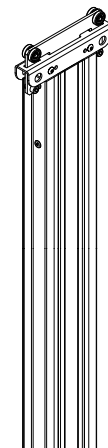
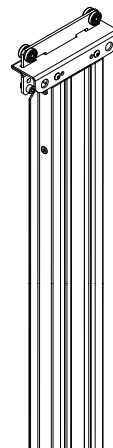
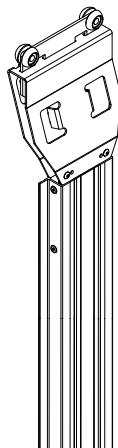
- ⑦ 143112764 Adapter rail
- ③ 143112763 Roller plate receptacle
- ① 143112748 Roller plate, KU rollers
- ⑥ 143112750 Mounting set



② For Standard cant rail:

- ⑦ 143112764 Adapter rail
- ⑤ 143112747 Support plate, 50 mm
- ② 143112749 Roller plate steel rollers
- ⑥ 143112750 Mounting set

For this carriage combination, the top of the pillar profile at the side board stop must be disconnected during assembly.



③ For Compact and Volumen cant rails:

- ⑦ 143112764 Adapter rail
- ④ 143112757 Support plate, 30 mm
- ② 143112749 Roller plate steel rollers
- ⑥ 143112750 Mounting set

Elevating roof mounting set

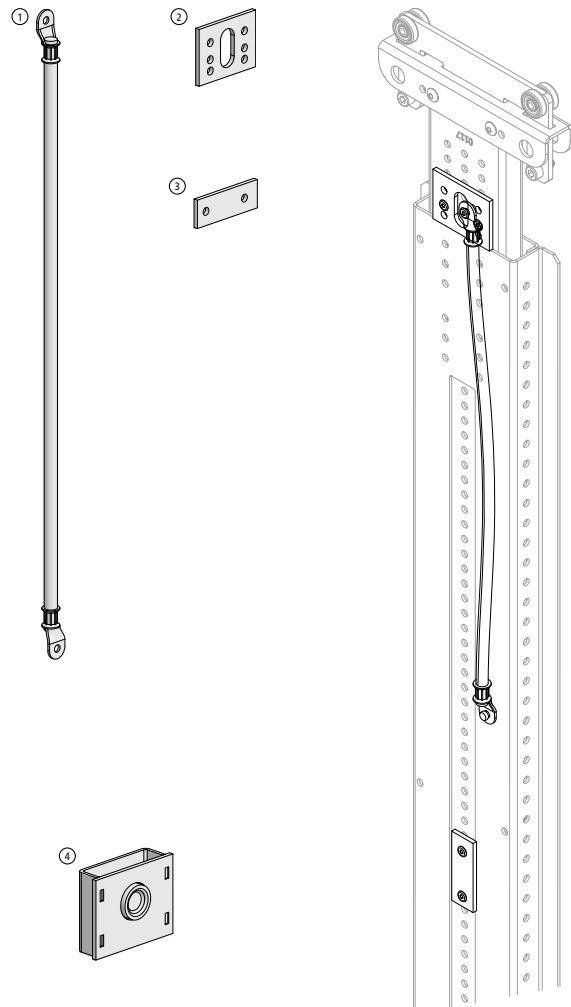
Weight 0.26 kg, contents:

- Pos. 1, Extension cord
- Pos. 2, Stop plate, Vario
- Pos. 3, Stop plate

- 2 x Fero-Bulb countersunk rivet 6.4 x 14 mm
- 4 x Monobolt countersunk rivet 6.4 x 12.5 mm

Contains all of the necessary components for mounting the telescopic profile as an elevating roof telescopic joint.

143112735



Travelling with the roof elevated

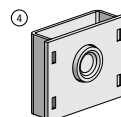
In combination with the travel height raster integrated into the Blueline CS Standard centre pillar, telescopic stop height 2 allows the elevated roof to be held firm at up to 4 x 50 mm - even during travel!

Telescopic stop height 2

Pos. 4, zinc plated steel parts, weight 0.48 kg.

The elevating roof mounting set accessory 143112735 is required.

143112752



Blueline CS centre pillars Standard and Short - Carriage combinations

The combination of roller plates with support plates/roller plate receptacles and telescopic profile allows a variety of carriages to be assembled for a Blueline CS Standard and Short centre pillars using very few parts.

All of the parts are available individually, meaning that the desired version can be assembled at the last moment depending on the CS cant rail used. The position numbers in the listing can also be found in the listing of individual components on page 159.

The carriages shown comprise the following individual parts:

① For Universal Classic cant rail:

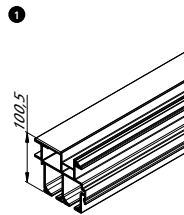
- ⑥ 143112762 Telescopic profile
- ③ 143112763 Roller plate receptacle
- ① 143112748 Roller plate, KU rollers
- ⑧ 143112750 Mounting set

② For Standard cant rail:

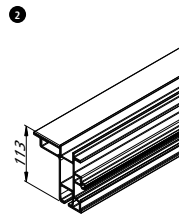
- ⑥ 143112762 Telescopic profile
- ③ 143112747 Support plate 50 mm
- ② 143112749 Roller plate, steel rollers
- ⑧ 143112750 Mounting set

③ For Compact and Volumen cant rails:

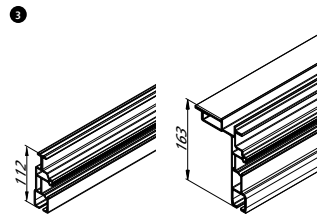
- ⑥ 143112762 Telescopic profile
- ④ 143112757 Support plate, 30 mm
- ② 143112749 Roller plate, steel rollers
- ⑧ 143112750 Mounting set



Universal Classic cant rail

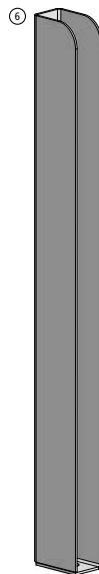
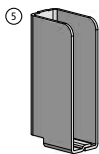
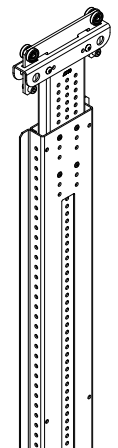
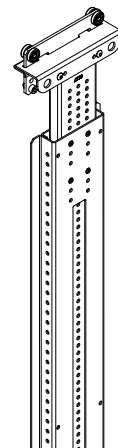
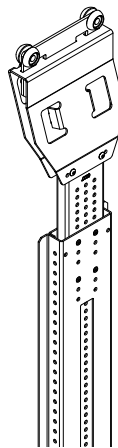


Standard cant rail



Compact cant rail

Volumen cant rail



Tarpaulin pocket, T-Lock

Pos. 5, for Blueline CS centre pillars, height 110 mm, zinc plated steel, weight 0.27 kg.
143112793

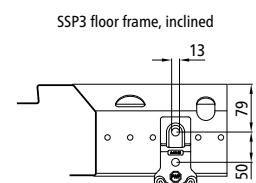
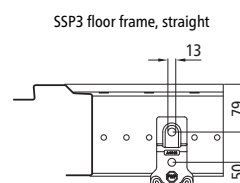
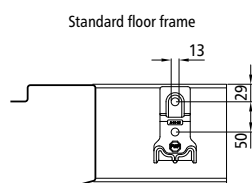
Depot

Pos. 6, for Blueline CS centre pillars, height 470 mm, zinc plated steel, weight 0.92 kg.
143112792

Blueline pillar mounting - Position on vehicle frame

Blueline pillar mounting 143112772 is used throughout the Blueline pillar system, so that Blueline CS Standard, Short and Aluminium centre pillars, as well as Blueline aluminium centre pillars for flatbeds can be interchanged without any problem.

The hole pattern for Blueline pillar mountings and their position on the floor frame is externally identical to the mounting dimensions of many well-known European manufacturers - in many cases, when making repairs, it is very easy to replace an existing pillar with a Blueline centre pillar.

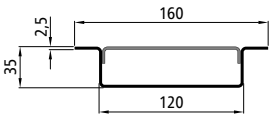
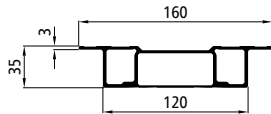


Blueline CS centre pillar - Summary of technical data

All dimensions refer to an installation on a standard outer frame, measured from the upper edge of the loading floor - please also see "Blueline pillar mounting - Position on vehicle frame" on page 161.



Basic dimensions

Item number	Type	Nominal height [mm]	Weight [kg]	Cross-section, CS Short and Standard centre pillars	Cross-section, CS Aluminium centre pillar
143112738	CS Short centre pillar	2100	17.25		
143112789	CS Standard centre pillar	2500	19.84		
143112788	CS Aluminium centre pillar	2785	11.92		

Side loading heights, lower edge of cant rail profile

CS Short and Standard centre pillars: The carriage can be adjusted between the specified dimensions on the 5 mm raster.
 CS Aluminium centre pillar: The pillar can be adjusted by shortening the pillar profile to the required height.

Item number	Type	Standard cant rail/straight carriage [mm]	Compact and Volumen cant rails/straight carriage [mm]	Universal Classic cant rail/angled carriage [mm]
143112738	CS Short centre pillar	2190 - 2710	2190 - 2710	2370 - 2890
143112789	CS Standard centre pillar	2590 - 3110	2590 - 3110	2770 - 3290
143112788	CS Aluminium centre pillar	≤ 2821	≤ 2821	≤ 3000

Slats/tarpaulin pockets

CS Short and Standard centre pillars: The tarpaulin pockets can be distributed through the given hole pattern in a 10 mm raster between the given dimensions - starting from the lowest dimension. The uppermost, "crooked" dimension is determined by the T-Lock tarpaulin pocket hole pattern.
 CS Aluminium centre pillar: The lowest dimension is a recommendation - although the depot 143112792 cannot then be installed, while the uppermost specified dimension with no shortened pillar still prevents collisions with the adapter rail 143112764 installed. The CS Aluminium centre pillar has no hole pattern for tarpaulin pockets; the tarpaulin pockets can be installed anywhere within the specified dimensions.

All dimensions refer to an installation of T-Lock tarpaulin pocket 143112793.

Item number	Type	Lowest tarpaulin pocket [mm]	Uppermost tarpaulin pocket [mm]	Max. tarpaulin pocket adjustment range [mm]
143112738	CS Short centre pillar	525	1985	1460
143112789	CS Standard centre pillar	525	2385	1860
143112788	CS Aluminium centre pillar	399	2510	--

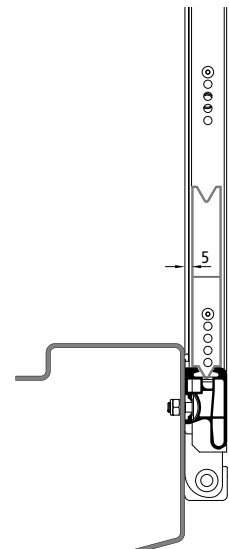
Floor slats/Depot

The depot can be installed using a given hole pattern in a 10 mm raster between the given dimensions - starting from the lowest dimension. A negative dimension means that the lower edge of the floor slat lies beneath the upper edge of the loading floor.

All dimensions refer to an installation of depot 143112792.

When using the depot in combination with a ram guard profile and an insert slat, a 5 mm clearance between the outer frame and the slat is required, for the pillar body side board stop. Ram guard profile 644006 can be used, but profile 644003 is unsuitable.

Item number	Type	Lowest dimension [mm]	Uppermost dimension [mm]
143112738	CS Short centre pillar	-30	10
143112789	CS Standard centre pillar	-30	10
143112788	CS Aluminium centre pillar	-30	10



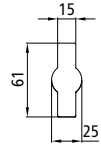
Elevating roof

Item number	Type	Option Elevating roof	Maximum extension [mm]	Option Telescopic stop height 2	Travel height raster setting [mm]
143112738	CS Short centre pillar	yes	600	no	--
143112789	CS Standard centre pillar	yes	600	yes	4 × 50
143112788	CS Aluminium centre pillar	no	--	--	--

Combi-anchor hole pattern

For locking rod and locking bar receptacles only.

Item number	Type	Combi-anchor hole pattern	Lowest dimension [mm]	Uppermost dimension [mm]	Number × spacing [mm]
143112738	CS Short centre pillar	yes	650	1150	6 × 100
143112789	CS Standard centre pillar	yes	850	1550	8 × 100
143112788	CS Aluminium centre pillar	no	--	--	--

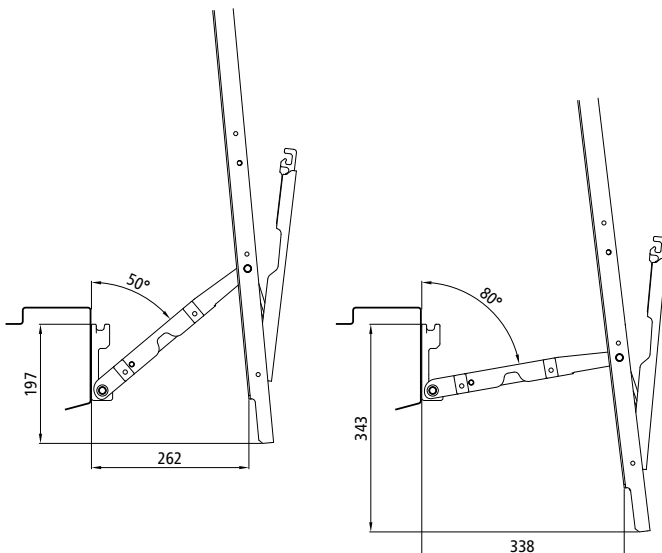


Side boards

Two closure pockets have been developed to connect the side boards to the CS Aluminium centre pillar. For side boards with sliding latches, closure pocket **215131487**, as well as closure pocket **385102887** suitable for PWP Paco latch fastener (see page 19). Both closure pockets should be screwed onto the pillar profile using threaded plate **385102937**. The hole pattern for installing the closure pockets can be milled into the pillar profile at the factory as required.

Item number	Type	Remarks
143112738	CS Short centre pillar	Not provided by the manufacturer.
143112789	CS Standard centre pillar	Not provided by the manufacturer.
143112788	CS Aluminium centre pillar	For side boards with nom. heights of 400 mm and above. The mounting holes can be milled at the factory.

Frame tilting function



The CS centre pillars (including the slats) can be tilted outwards for fast loading of the vehicle from the rear.

To do this, the pillar body of the opened pillar is pulled outwards, while the foot of the pillar remains in the pillar mounting.

The result is significantly more space for manoeuvring.

Certification according to DIN EN 12642 XL

Tested according to DEKRA pillar requirement profile in conjunction with DIN EN 12642 Code XL.

The spacing between two centre pillars, and/or between the centre pillar and real wall/tailgate - the so-called field size - can be up to 3800 mm, with a clear height of up to 3000 mm.

Item number	Type	DEKRA certificate	Payload [t] for x centre pillar(s) per body side				
			1 centre pillar	2 centre pillars	3 centre pillars	4 centre pillars	5 centre pillars
143112738	CS Short centre pillar	not certified	--	--	--	--	--
143112789	CS Standard centre pillar	313/32100/702073/1818604823-1	≤ 16.2	≤ 21.6	≤ 27.0	--	--
143112788	CS Aluminium centre pillar	313/32100/702073/1818604823-2	≤ 8.0	≤ 10.0	≤ 13.3	≤ 16.0	≤ 18.7

The illustration also shows accessories for the CS centre pillar.
 Items with left/right hand versions:
 Illustrations show the left-hand version

CS centre pillars

Steel, black KTL-coated.
 Please order pillar mountings and accessories separately.

Item number	Pos.	Type	Weight [kg]
670907991	1	For Suer Combi ram guard 644001 ¹	32.00
670908391	2	Standard	28.00

¹ Combi ram guard 644001 can be found in this catalogue on page 275.

Insertion pocket

Pos. 3, height 119 mm, steel, black KTL-coated.

Item number	Version	Weight [kg]
670908394	left	0.25
670908395	right	0.25



Spring

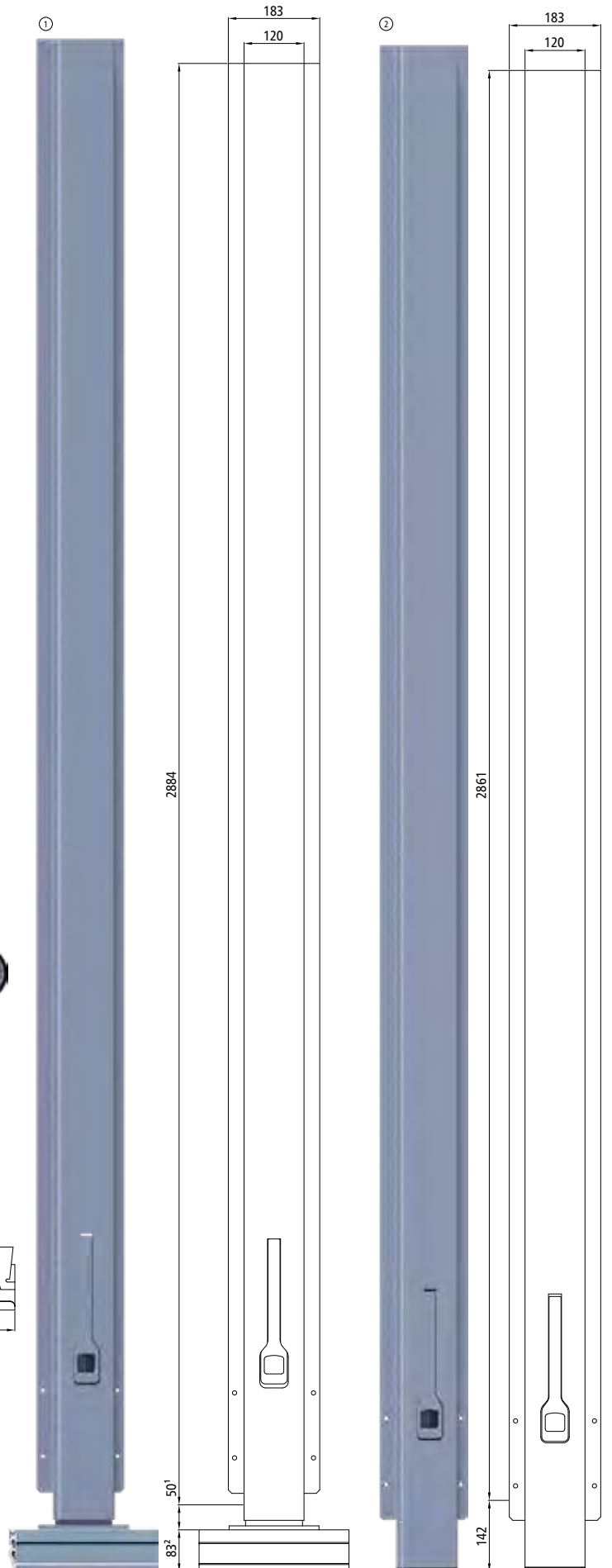
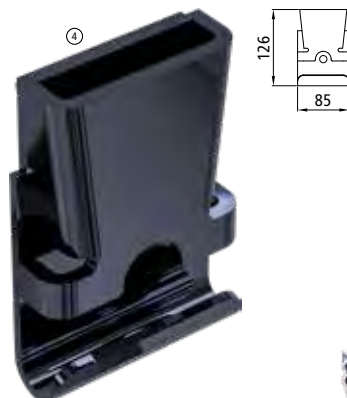
Replacement part for lever mechanism.
 2 pieces are installed.

670908392

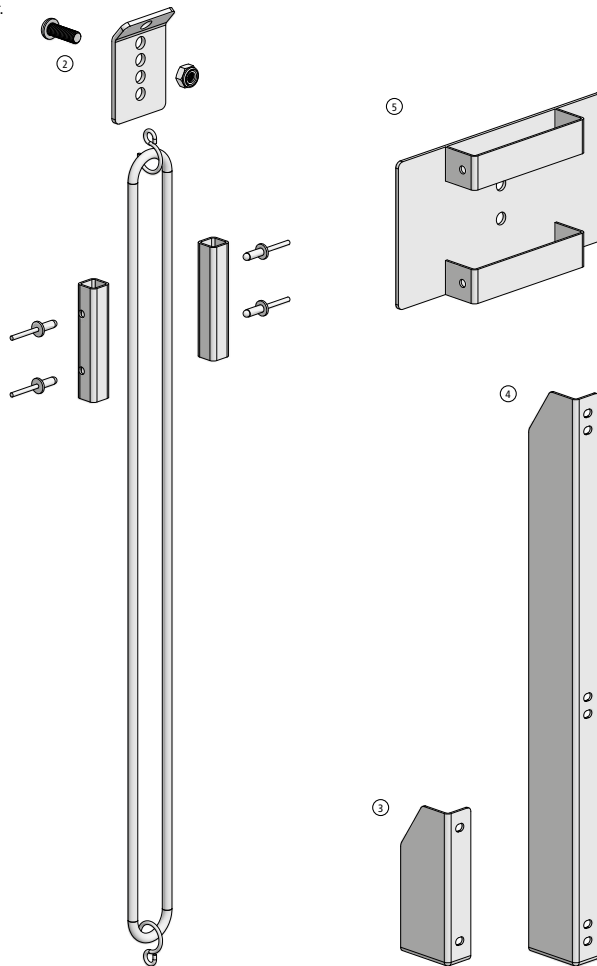
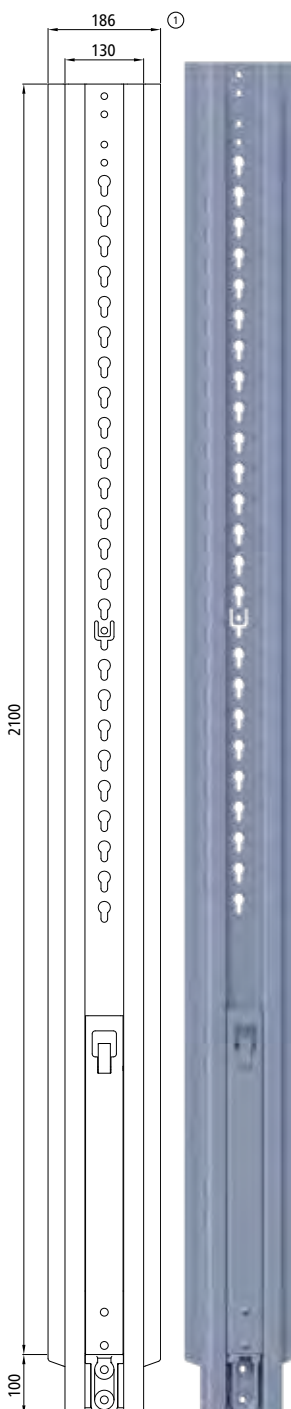
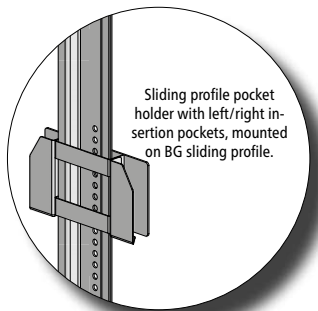
Pillar mounting

Pos. 4, for weld-mounting, steel, black KTL-coated, weight 1.05 kg.

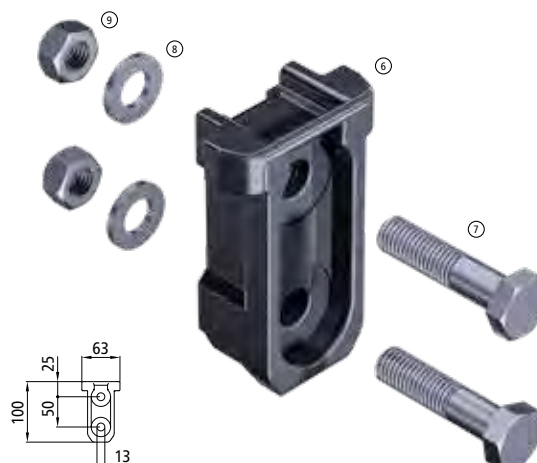
670900391



The illustration also shows accessories for the CS centre pillar.
Items with left/right-hand versions:
Illustrations show the left-hand version



VDI 2700
The Curtainsider centre pillar Safe TRS **660038043** has been tested in combination with sliding profiles (as carriages) BG 1200 **660038360** and BG 1700 **660038350/660038340** according to VDI 2700 for a shear load of 1250 daN. The test certificate only covers side loading heights between 2350 mm and 2800 mm (in conjunction with sliding profile BG 1200 mm) and/or 3050 mm (in conjunction with sliding profile BG 1700 mm), however. Other (higher) installation lengths do not comply with VDI 2700. Sliding profiles and accessories can be found on page 168.



CS centre pillar Safe TRS

Pos. 1, pillar bodies, black KTL-coated steel, zinc plated locking mechanism, weight 17.70 kg.
Please order pillar mountings and accessories separately.

660038043

Lifting unit kit

Pos. 2, for bodies with elevating roof, weight 0.69 kg.

660038290

Insertion pocket

Pos. 3, height 135 mm, zinc plated steel.

Item number	Version	Weight [kg]
660038440	left	0.16
660038450	right	0.16

Long insertion pocket/ Depot

Pos. 4, height 500 mm, zinc plated steel.

Item number	Version	Weight [kg]
660038460	left	0.62
660038470	right	0.62

Sliding profile pocket holder

Pos. 5, weight 0.91 kg.
For installing insertion pockets adjacent to the BG sliding profiles.

660010602

Pillar mounting

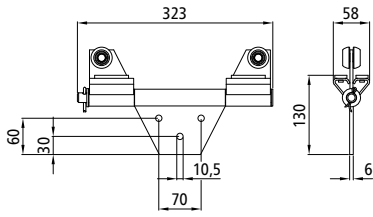
Pos. 6, zinc plated steel, weight 0.61 kg.

660038431

Pillar mounting screw set

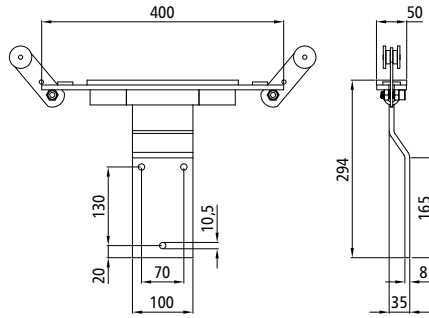
Pos. 7, 8 and 9.

660010111



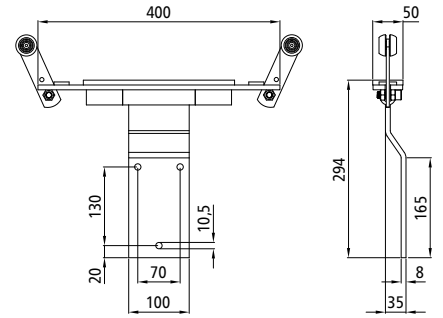
Pillar rackets

Zinc plated steel, weight 2.73 kg.
 With rollers suitable for Universal Classic cant rail.
 660025390



Pillar rackets

Steel, black KTL-coated, weight 4.34 kg.
 With rollers for steel C-rails (see page 254).
 670980393

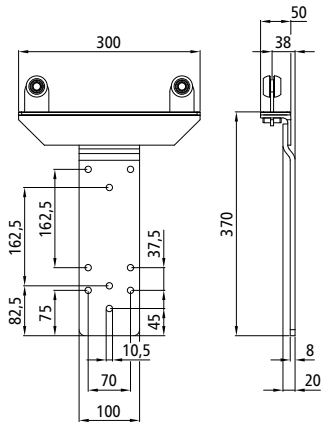


Pillar rackets

Steel, black KTL-coated, weight 4.31 kg.
 With rollers suitable for Universal Classic cant rail.
 670980293

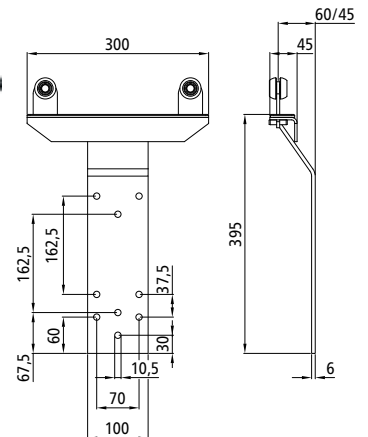
Pillar rackets

Offset 15 mm, steel, black KTL-coated, weight 3.61 kg.
 With rollers suitable for Universal Classic cant rail.
 660031490



Pillar rackets

Offset 34 mm, steel, black KTL-coated, weight 2.91 kg.
 With rollers suitable for Universal Classic cant rail.
 660032400



Roller

Spare part for pillar bracket 660031490 and 660032400.
 660030450



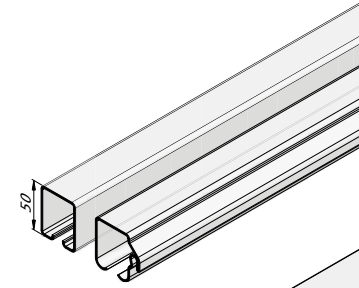


Blueline pillar ratchet

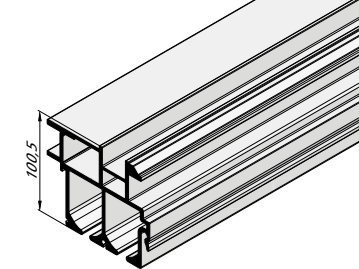
Zinc plated steel parts.

For the sake of completeness, components for Blueline pillar rackets are also listed here; complete descriptions can be found on page 157 onward. Please order all parts separately.

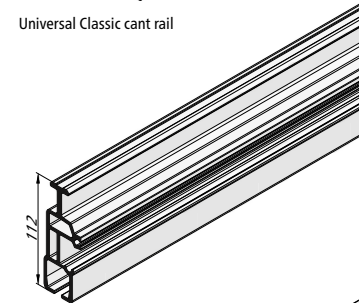
Item number	Pos.	Name	Weight [kg]
143112757	1	Support plate, 30 mm depth	0.38
143112747	2	Support plate, 50 mm depth	0.54
143112763	3	Roller plate receptacle	1.84
143112762	4	Telescopic profile	7.15
143112764	5	Adapter rail	0.38
143112748	6	Roller plate with KU rollers	0.66
143112749	7	Roller plate with steel rollers	0.51
143112750	--	Carriage mounting set	--



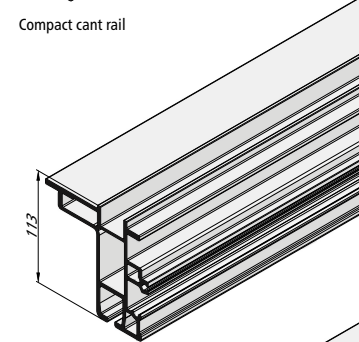
Steel C-rails



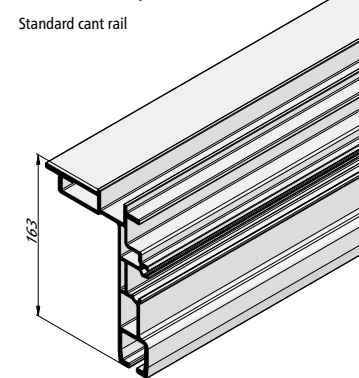
Universal Classic cant rail



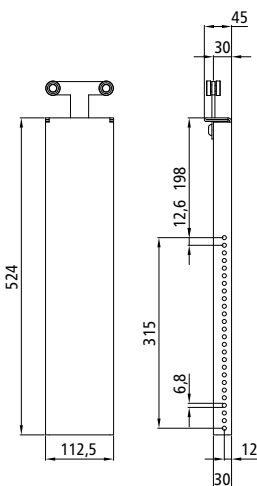
Compact cant rail



Standard cant rail



Volumen cant rail

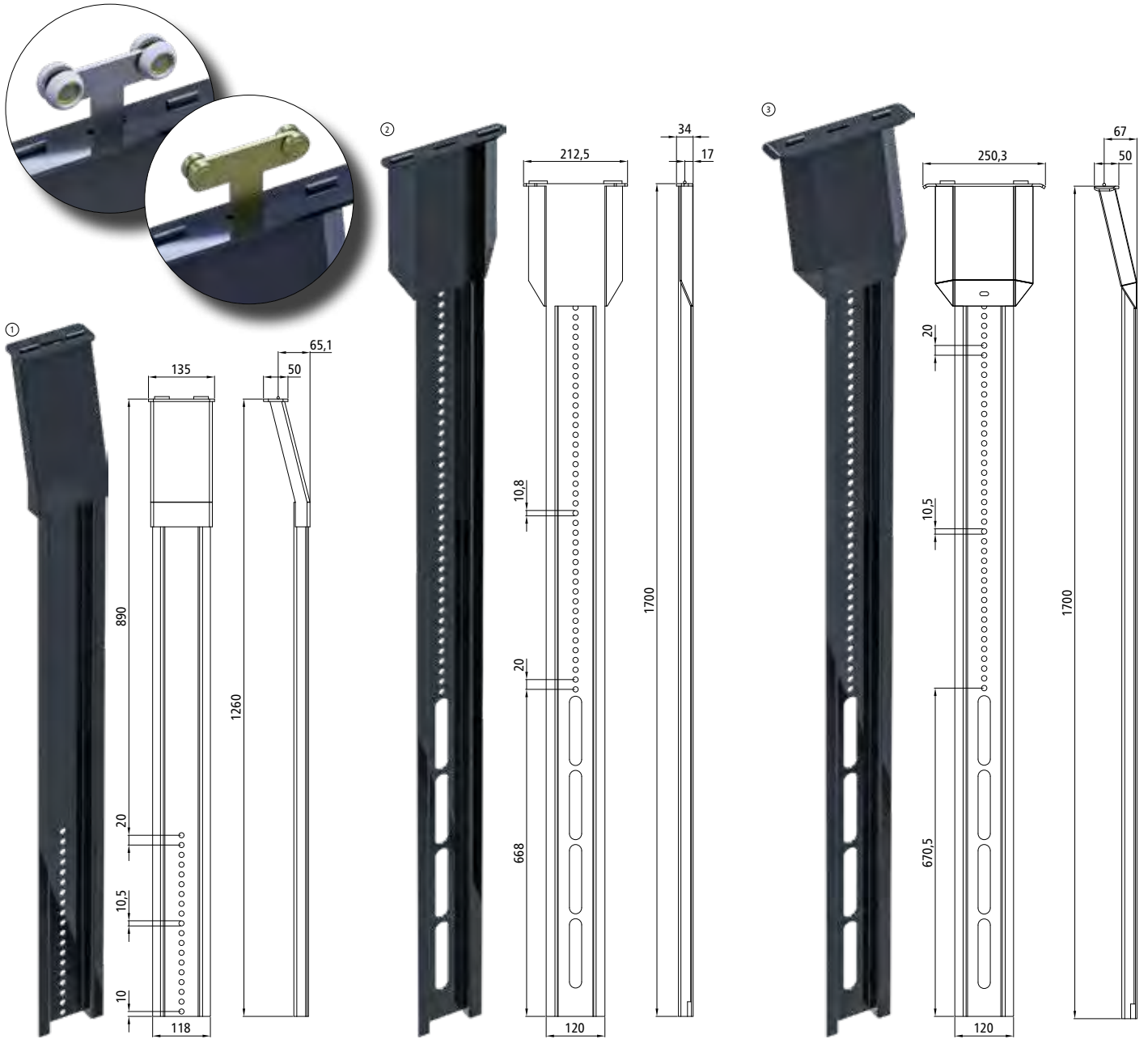


Pillar rackets

Steel, black KTL-coated, weight 2.96 kg.

Hole pattern suitable for pillars 670907991 + 670908391 (see page 164) in combination with standard cant rail.

670502043



BG sliding profiles

Steel, black KTL-coated.
 Hole pattern suitable for CS centre pillar Safe TRS 660038043 (see page 165). Please order the dual roller and pillar mounting set separately.

Item number	Pos.	Name	Offset [mm]	Weight [kg]
660038360	1	Sliding profile BG, 1200 mm, offset	48	5.92
660038350	2	Sliding profile BG, 1700 mm, straight	--	7.83
660038340	3	Sliding profile BG, 1700 mm, offset	48	7.83

Pillar mounting set

Not shown. For BG sliding profiles, weight 0.25 kg.
 The screws for installing a dual roller onto the BG sliding profile are also included in the scope of delivery.

660038390

Dual roller with KU rollers

For sliding profile BG, zinc plated steel parts, weight 0.28 kg.
 With rollers suitable for Universal Classic cant rail.

660038280

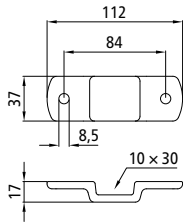


Dual roller with steel rollers

For sliding profile BG, zinc plated steel parts, weight 0.27 kg.
 With rollers suitable for Compact, Standard and Volumen cant rails.

660048420

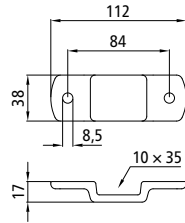




Pillar holder 10x30

Drop-forged, zinc plated steel, weight 0.22 kg.

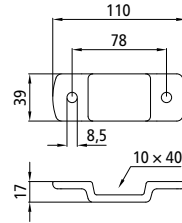
215131488



Pillar holder 10x35

Drop-forged, zinc plated steel, weight 0.21 kg.

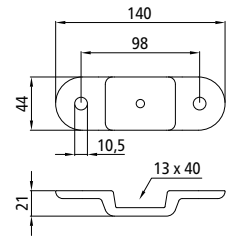
103131489



Pillar holder 10x40

Drop-forged, zinc plated steel, weight 0.23 kg.

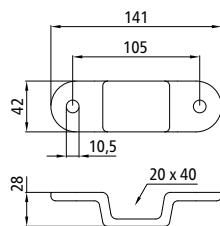
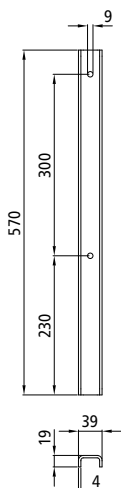
103131490



Pillar holder 13x40

Drop-forged, zinc plated steel, weight 0.33 kg.

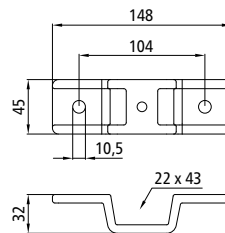
103131491



Pillar holder 20x40

Drop-forged, zinc plated steel, weight 0.36 kg.

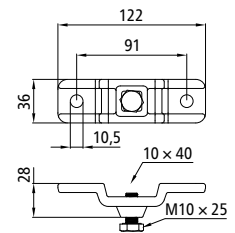
103131492



Pillar holder 22x43

Drop-forged, zinc plated steel, weight 0.34 kg.

103131493



Pillar holder 22x43

Drop-forged with positioning screws M 10 x 25, zinc plated steel, weight 0.27 kg.

103131710



Pillar holder 20x40

Pos. 1, with welded nut M10, zinc plated steel sheet, weight 0.60 kg.

In the nut area for approx. pillar cross-sections 15x40 mm.

215131495

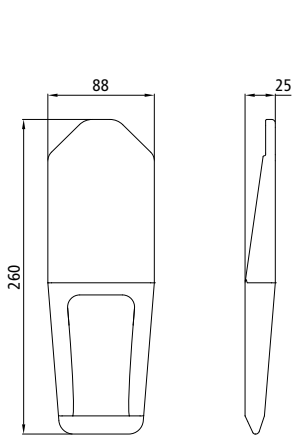
Pillar side board extension

Pos. 2, S355J2G3, zinc plated steel, weight 1.13 kg.

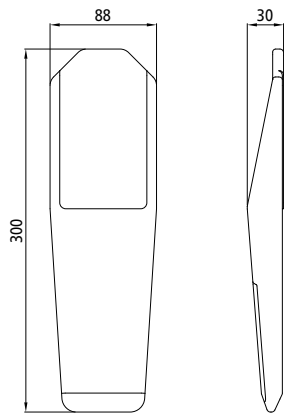
Suitable for pillar holder

215131495.

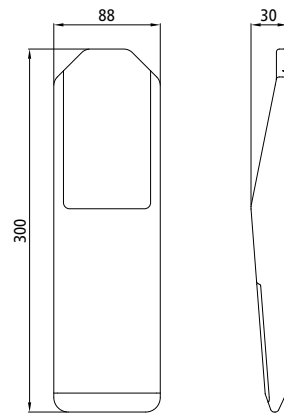
604111688



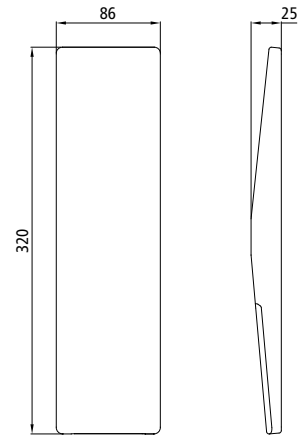
Pillar wedge 602-1
Pos. 1, raw steel, weight 2.36 kg.
[215121244](#)



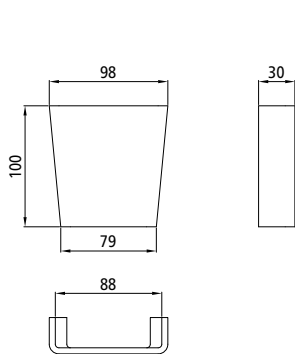
Pillar wedge 600-1
Pos. 3, raw steel, weight 3.18 kg.
[215121054](#)



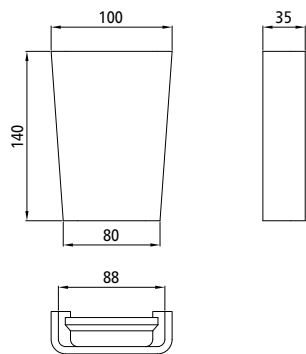
Pillar wedge 502-1
Pos. 5, raw steel, weight 3.23 kg.
[215121005](#)



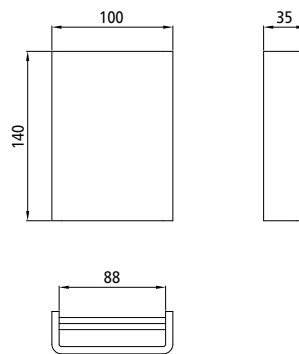
Pillar wedge 500-1
Pos. 7, raw steel, weight 3.56 kg.
[215121030](#)



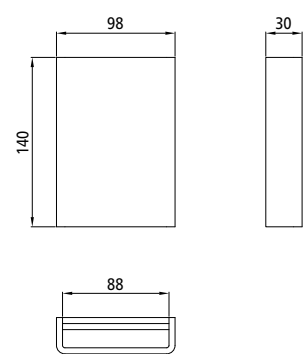
Pillar socket 602-2
Pos. 2, raw steel, weight 0.47 kg.
[215121245](#)



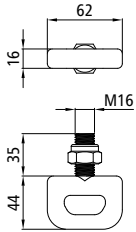
Pillar socket 600-2
Pos. 4, raw steel, weight 1.09 kg.
[215121055](#)



Pillar socket 502-3
Pos. 6, raw steel, weight 1.20 kg.
[215121006](#)



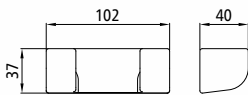
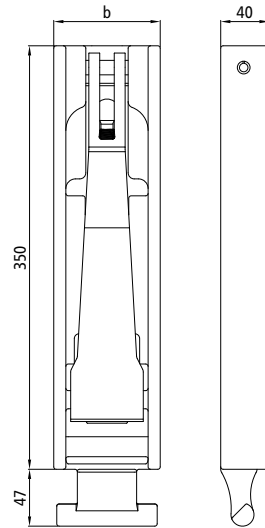
Pillar socket 500-2
Pos. 8, raw steel, weight 0.91 kg.
[215121031](#)



Locking eye

With nuts according to DIN 985 M16, zinc plated steel, weight 0.31 kg.

102102398



Pillar mounting

Raw steel, weight 0.45 kg.

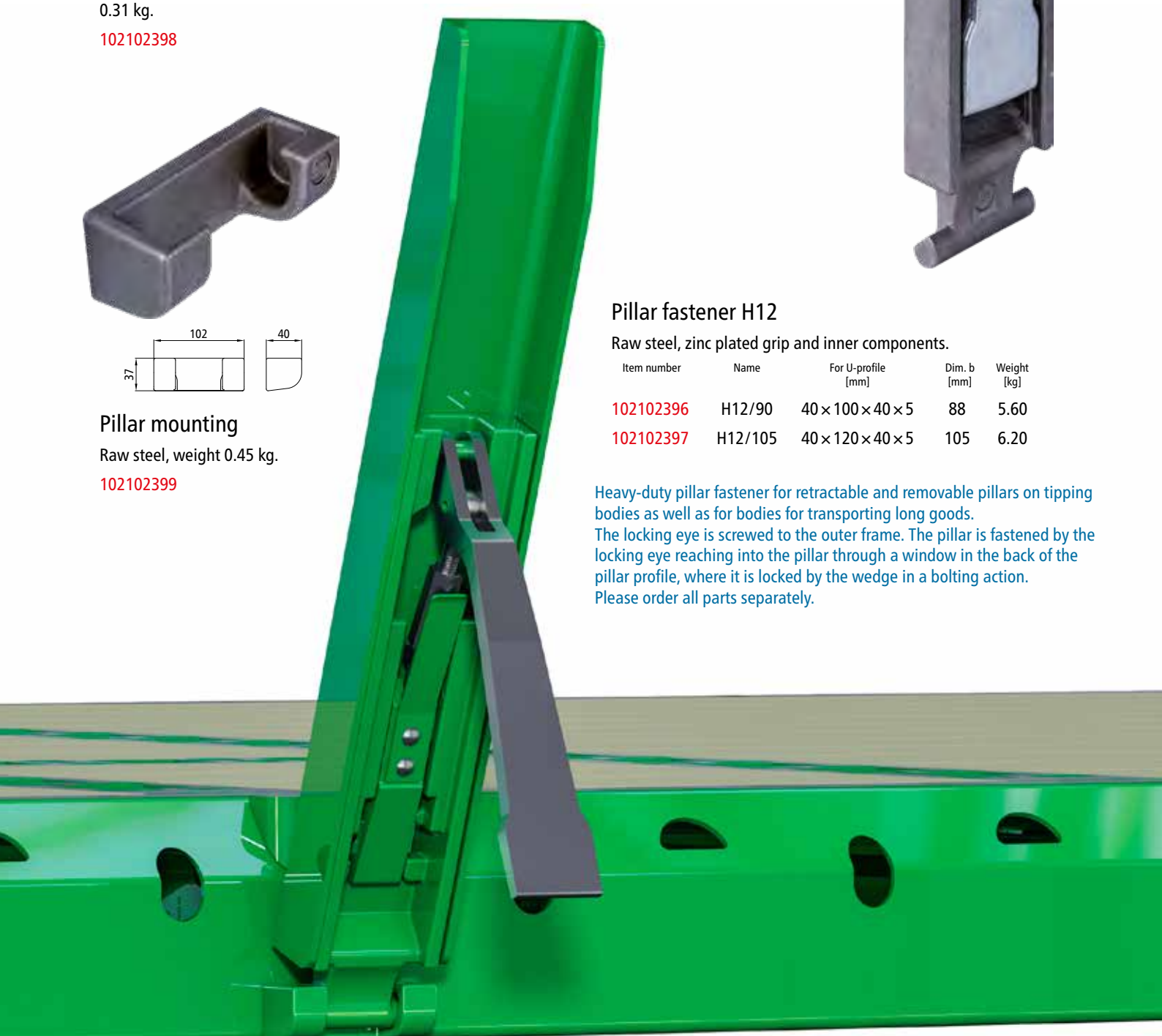
102102399

Pillar fastener H12

Raw steel, zinc plated grip and inner components.

Item number	Name	For U-profile [mm]	Dim. b [mm]	Weight [kg]
102102396	H12/90	40 × 100 × 40 × 5	88	5.60
102102397	H12/105	40 × 120 × 40 × 5	105	6.20

Heavy-duty pillar fastener for retractable and removable pillars on tipping bodies as well as for bodies for transporting long goods. The locking eye is screwed to the outer frame. The pillar is fastened by the locking eye reaching into the pillar through a window in the back of the pillar profile, where it is locked by the wedge in a bolting action. Please order all parts separately.





STEPS

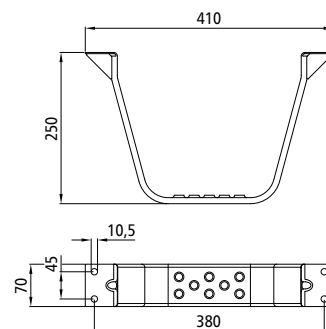


STIRRUP TREAD PLATE/TREAD PLATES	174
PULL-OUT STEP LADDERS	178
PWP PULL-OUT STEPS	180
LEANING LADDERS	184
RAMPS	185

Stirrup tread plate

Tread surface approx.
175 × 70 mm (w × d), zinc plated
steel, weight 1.18 kg.

108131502



Tread plate 1501

Tread surface approx.
163 × 146 mm (w × d), steel with
aluminium-magnesium alloy
surface, weight 1.25 kg.

Load capacity 130 kg.

125131518

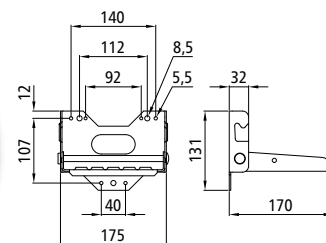


Image above: 125131518

Tread plate 1501

Tread surface approx.
163 × 146 mm (w × d), steel with
aluminium-magnesium alloy
surface, weight 1.25 kg.

Load capacity 160 kg when
installed with 3 × M8 bolts in the
dimensions hole pattern.

125132518

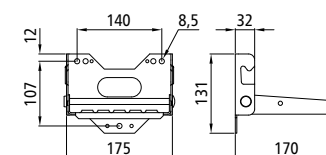
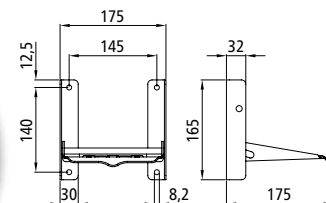


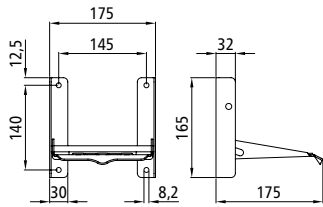
Image above: 125132518

Tread plate 116

Tread surface approx.
163 × 150 mm (w × d),
weight 1.05 kg.

Item number	Version
215131385	Raw steel
215131221	Steel, primed

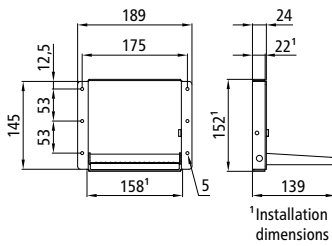




Tread plate 116

Tread surface approx.
163 × 150 mm (w × d), zinc
plated steel, weight 1.07 kg.

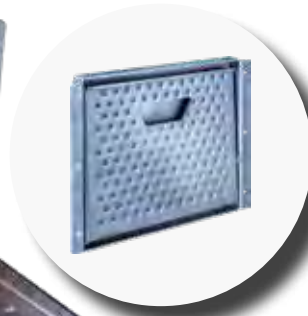
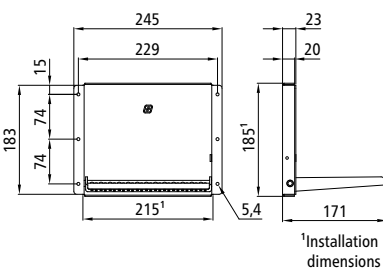
215131373



Folding tread plate

Tread surface approx.
145 × 115 mm (w × d), zinc
plated steel, weight 1.24 kg.

104131519



S-Line® folding tread plate

Tread surface approx.
200 × 150 mm (w × d), zinc
plated steel, weight 1.99 kg.

215131985

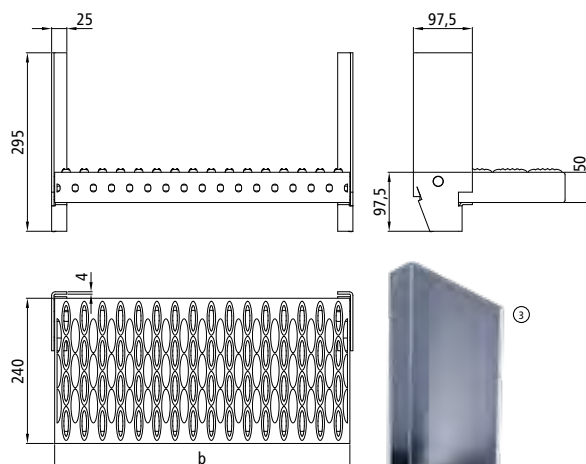
PWP aluminium tread plates

Comprising a step and brackets.
Please order all parts separately.

Step

Pos. 1, aluminium.

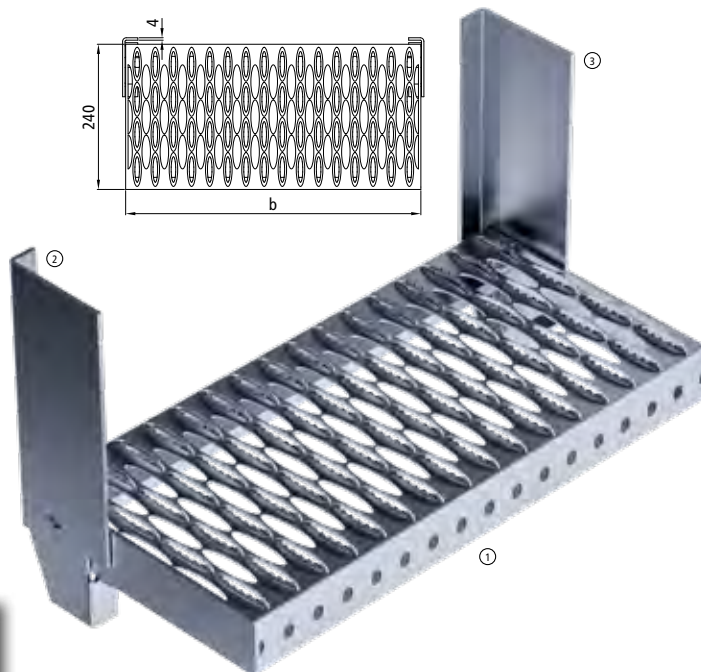
Item number	Dim. b [mm]	Weight [kg]
105131612	480	1.85
105131613	630	2.35
105131614	750	2.70



Bracket

Zinc plated steel,
weight 1.00 kg.

Item number	Pos.	Version
105131854	2	left
105131855	3	right



If the PWP tread plate is installed laterally on the vehicle, it must be secured by additional means when the vehicle is moving. The fall prevention included in its design is not sufficient for applications of this kind. This applies to all versions of our PWP tread plates.

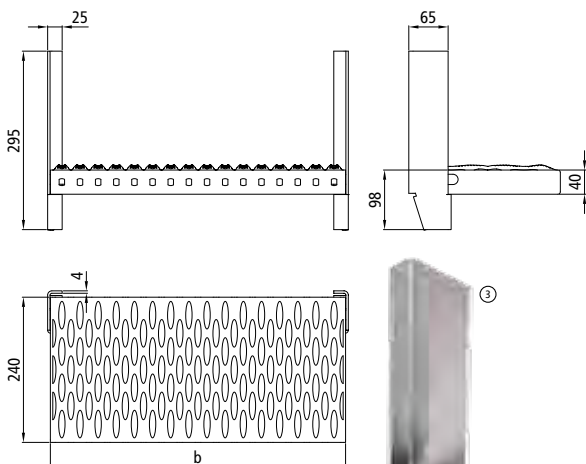
PWP steel tread plates

Comprising a step and brackets.
Please order all parts separately.

Step

Pos. 1, zinc plated steel.

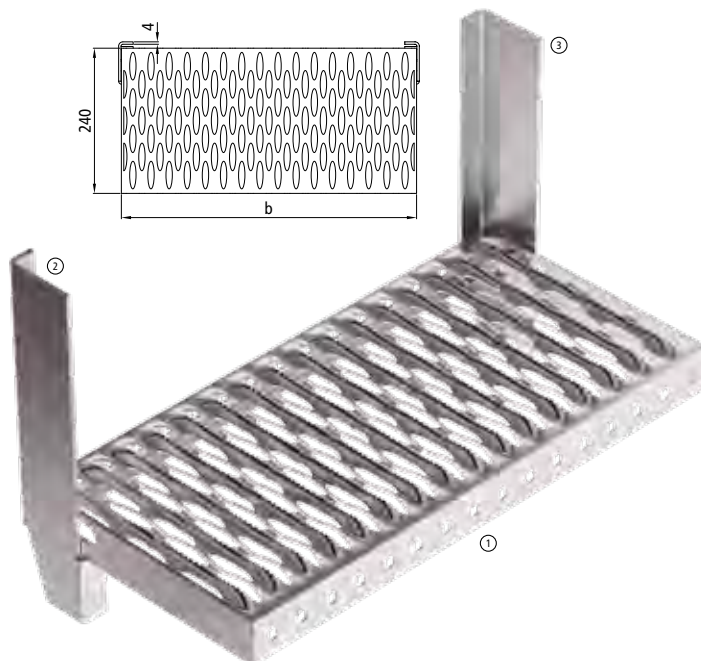
Item number	Dim. b [mm]	Weight [kg]
105131609	488	3.40
105131610	638	4.20



Bracket

Zinc plated steel,
weight 0.81 kg.

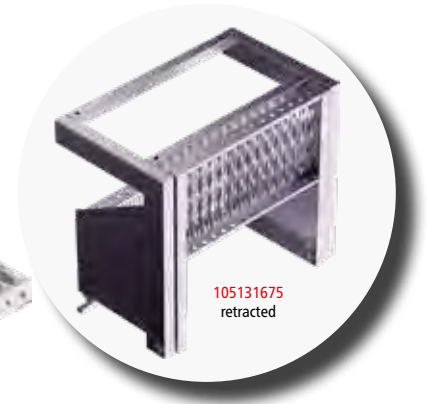
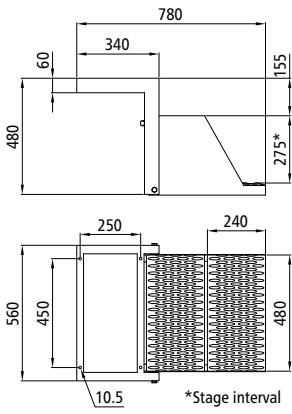
Item number	Pos.	Version
105131615	2	left
105131616	3	right



PWP 2-step tread plate

Zinc plated steel,
weight 16 kg.

105131675



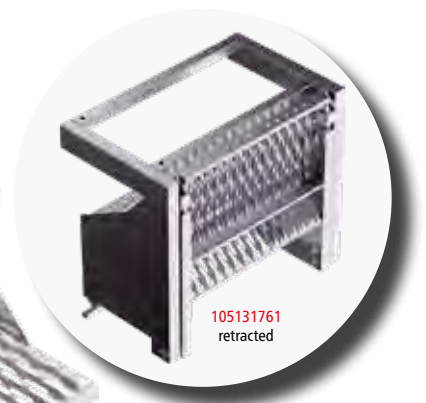
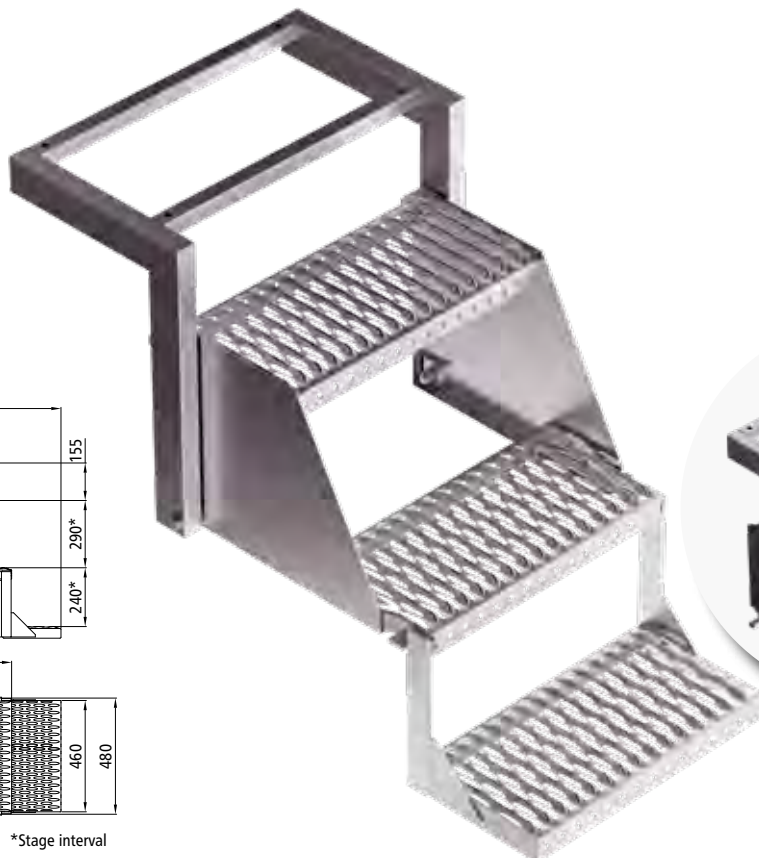
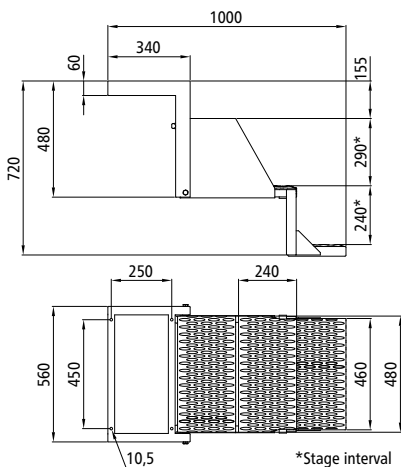
PWP tread plates 105131675 and 105131761 are not secured against accidental extension. The body manufacturer must provide a safety mechanism during assembly.



PWP 3-step tread plate

Zinc plated steel,
weight 20 kg.

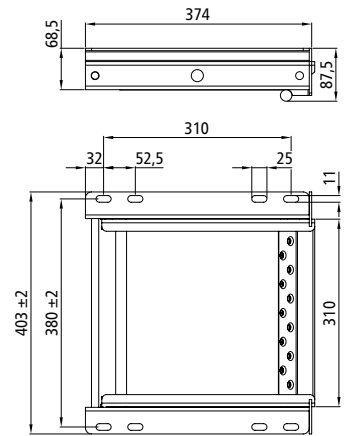
105131761



Pull-out step ladder

1 rung, zinc plated steel,
weight 6.46 kg.

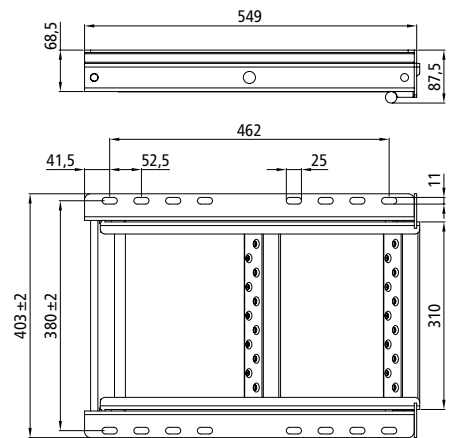
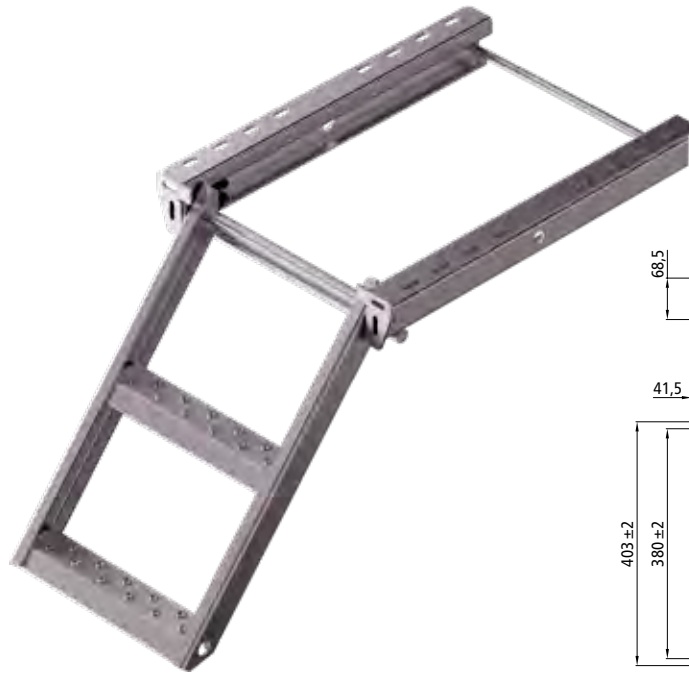
300131953



Pull-out step ladder

2 rungs, zinc plated steel,
weight 8.80 kg.

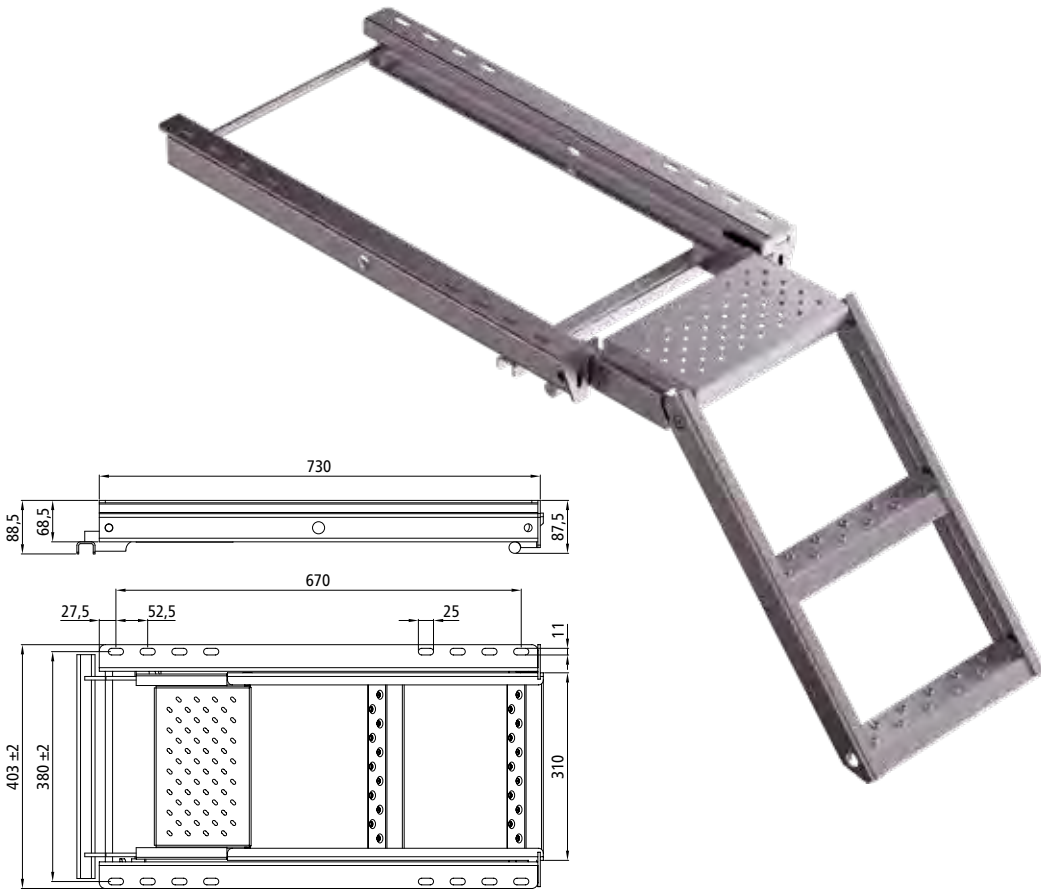
300131956



Pull-out step ladder

2 rungs with platform, zinc plated steel, weight 12.39 kg.

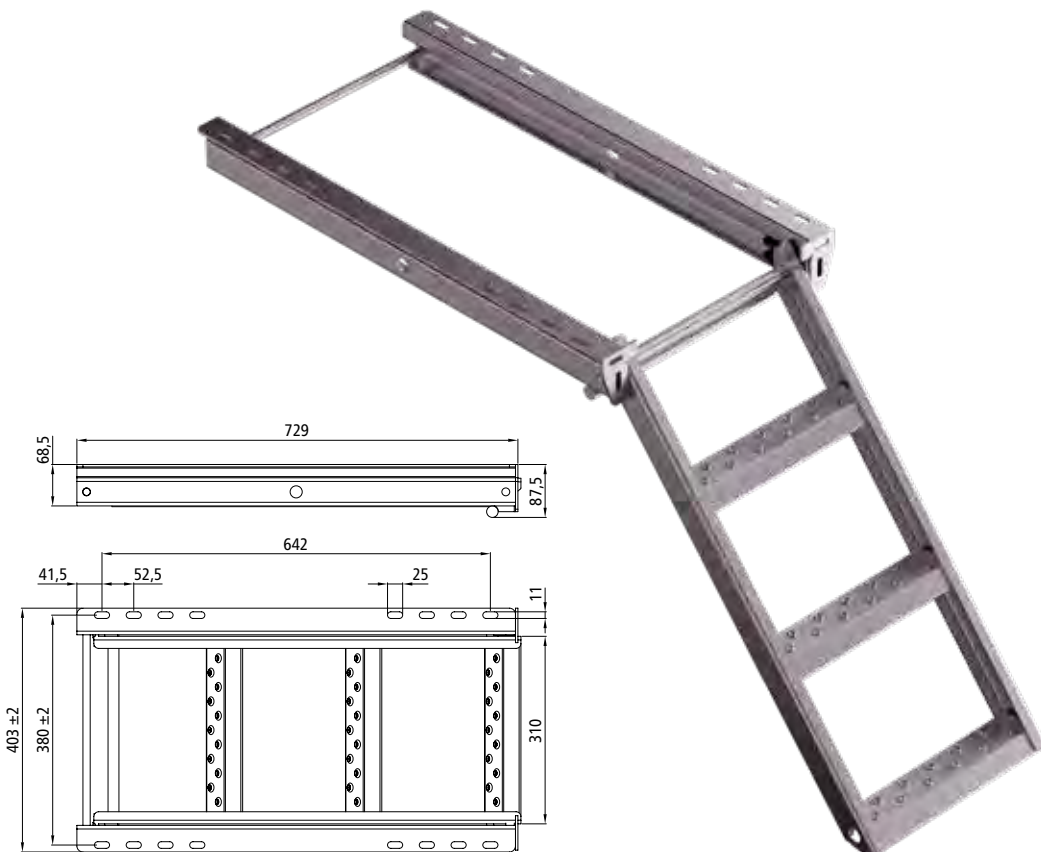
300131954



Pull-out step ladder

3 rungs, zinc plated steel, weight 11.26 kg.

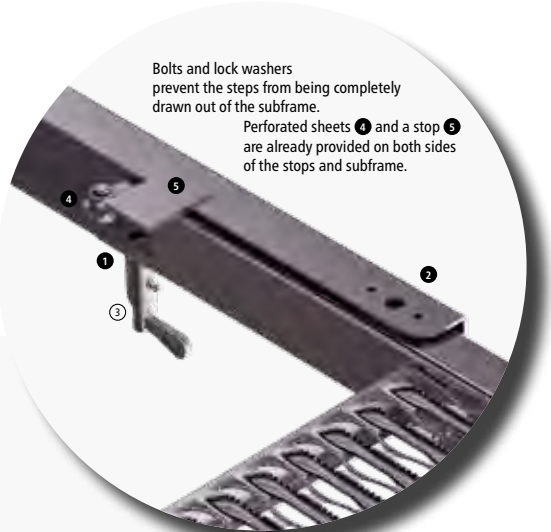
300131955





Bolts and lock washers prevent the steps from being completely drawn out of the subframe.

Perforated sheets **4** and a stop **5** are already provided on both sides of the stops and subframe.



The PWP pull-out steps can be secured in the subframe while on the move with the spring clip **105102712** **1** supplied loose. The subframe has 3 holes **2** and **3** on its right side for mounting the spring clip. The counterbore in the step must be positioned as required during assembly.



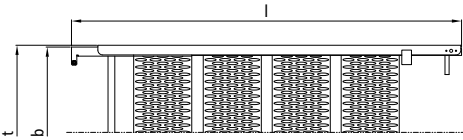
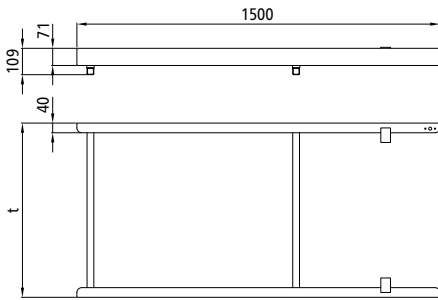


Image above: Steps retracted into the subframe.
 Dim. l: Minimum length, dimension b: Step width,
 dimension t: Subframe width.
 The dimensions are given in the tables.



PWP pull-out steps

Consists of steps and a subframe.
 Please order all parts separately.

Steps

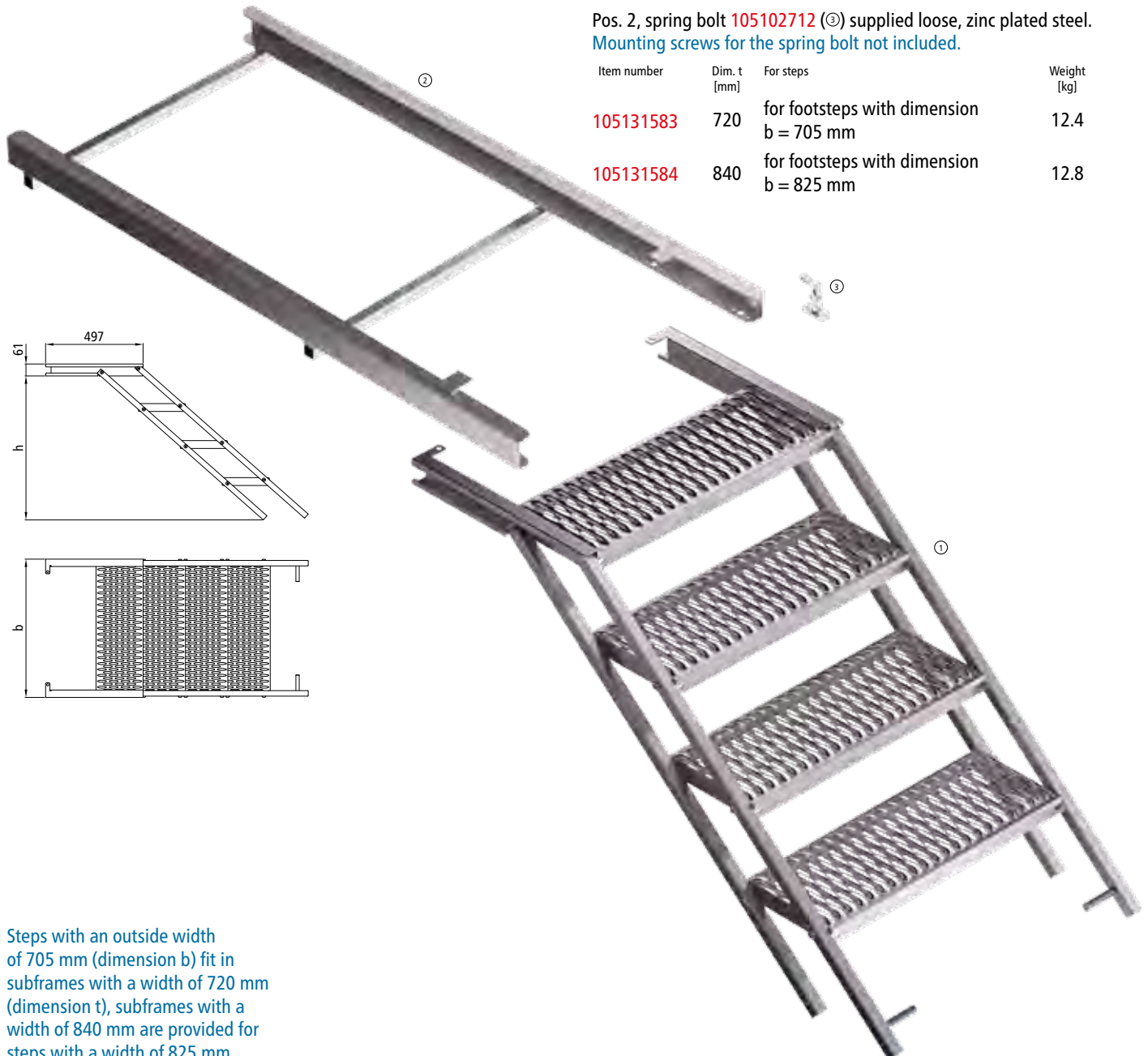
Pos. 1, zinc plated steel.

Item number	Number of rungs	Dim. b ±5 [mm]	Dim. h ±5 [mm]	Dim. l ±5 [mm]	Weight [kg]
105131578	4	705	650-800	1615	26
105131577	5	705	800-950	1900	32
105131545	6	705	950-1100	2185	38
105131576	7	705	1100-1250	2470	44
105131581	4	825	650-800	1615	29
105131580	5	825	800-950	1900	35
105131514	6	825	950-1100	2185	42
105131579	7	825	1100-1250	2470	48

Subframe

Pos. 2, spring bolt 105102712 (⊗) supplied loose, zinc plated steel.
 Mounting screws for the spring bolt not included.

Item number	Dim. t [mm]	For steps	Weight [kg]
105131583	720	for footsteps with dimension b = 705 mm	12.4
105131584	840	for footsteps with dimension b = 825 mm	12.8

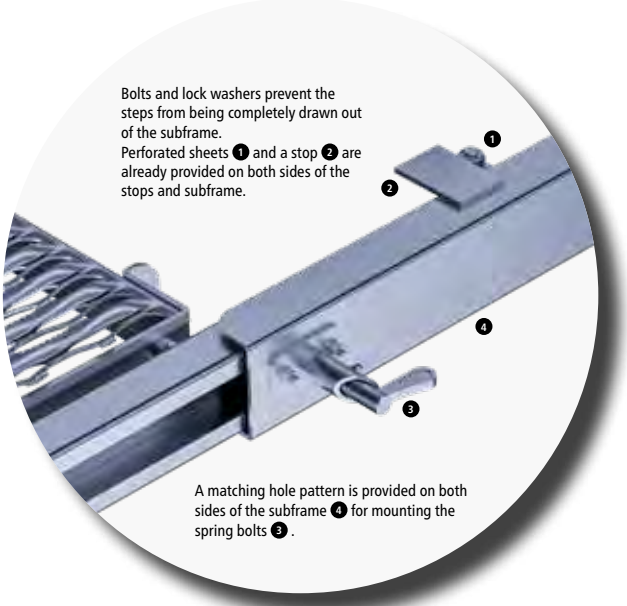


Steps with an outside width of 705 mm (dimension b) fit in subframes with a width of 720 mm (dimension t), subframes with a width of 840 mm are provided for steps with a width of 825 mm.



DGUV tested and certified

PWP pull-out safety steps have been tested and certified by the German professional association for the transport industry. They have been tested according to DIN EN ISO 14122-3 and UVV "Vehicles" BGV D 29. The steps were primarily designed in such a way that it is no longer possible to trap your fingers when extending them out of or retracting them into the subframe. They also exceeded the required test load of 260 kg per step, reaching a test load of 350 kg. Thanks to their mostly aluminium construction, the steps are up to 50% lighter than standard pull-out PWP steps, and will look good even after years of use.



Bolts and lock washers prevent the steps from being completely drawn out of the subframe. Perforated sheets **1** and a stop **2** are already provided on both sides of the stops and subframe.

A matching hole pattern is provided on both sides of the subframe **4** for mounting the spring bolts **3**.

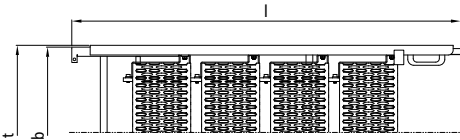
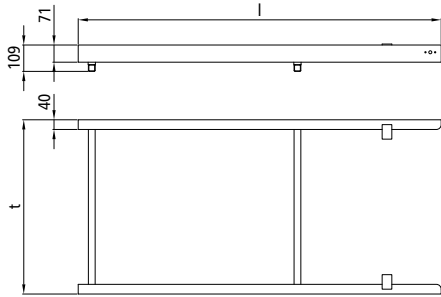


Image above: Steps retracted into the subframe.
 Dim. l: Minimum length, dimension b: Step width,
 dimension t: Subframe width.
 The dimensions are given in the tables.



PWP pull-out safety steps

Consists of steps and a subframe.
 Please order all parts separately.

Steps

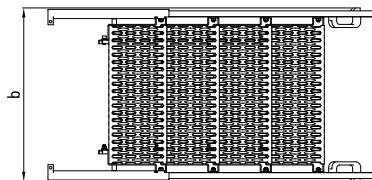
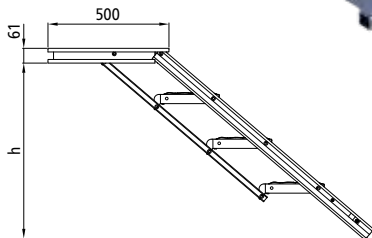
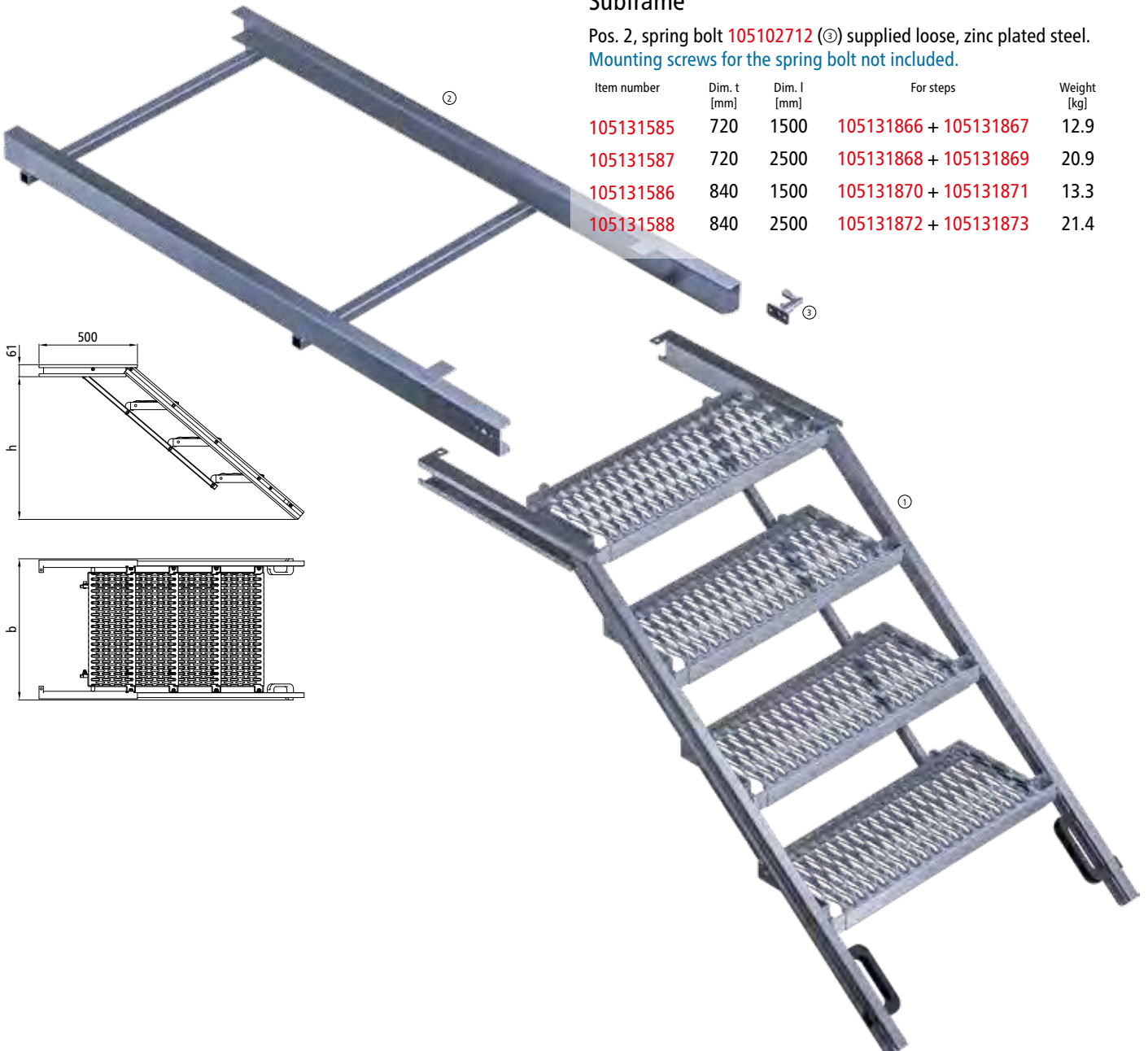
Pos. 1, aluminium tread surfaces and longerons, partially anodised, zinc plated steel guide plate for subframe.

Item number	Number of rungs	Dim. b ±5 [mm]	Dim. h ±5 [mm]	Dim. l ±5 [mm]	Weight [kg]
105131866	4	705	650-800	1607	13
105131867	5	705	800-950	1892	15
105131868	6	705	950-1100	2177	18
105131869	7	705	1100-1250	2462	20
105131870	4	825	650-800	1607	15
105131871	5	825	800-950	1892	17
105131872	6	825	950-1100	2177	20
105131873	7	825	1100-1250	2462	22

Subframe

Pos. 2, spring bolt 105102712 (Ⓢ) supplied loose, zinc plated steel.
 Mounting screws for the spring bolt not included.

Item number	Dim. t [mm]	Dim. l [mm]	For steps	Weight [kg]
105131585	720	1500	105131866 + 105131867	12.9
105131587	720	2500	105131868 + 105131869	20.9
105131586	840	1500	105131870 + 105131871	13.3
105131588	840	2500	105131872 + 105131873	21.4





Leaning ladder

6 rungs, length 1730 mm,
aluminium with rubber longeron
ends, weight 3.23 kg.

As per DIN EN 131, load capacity
150 kg.

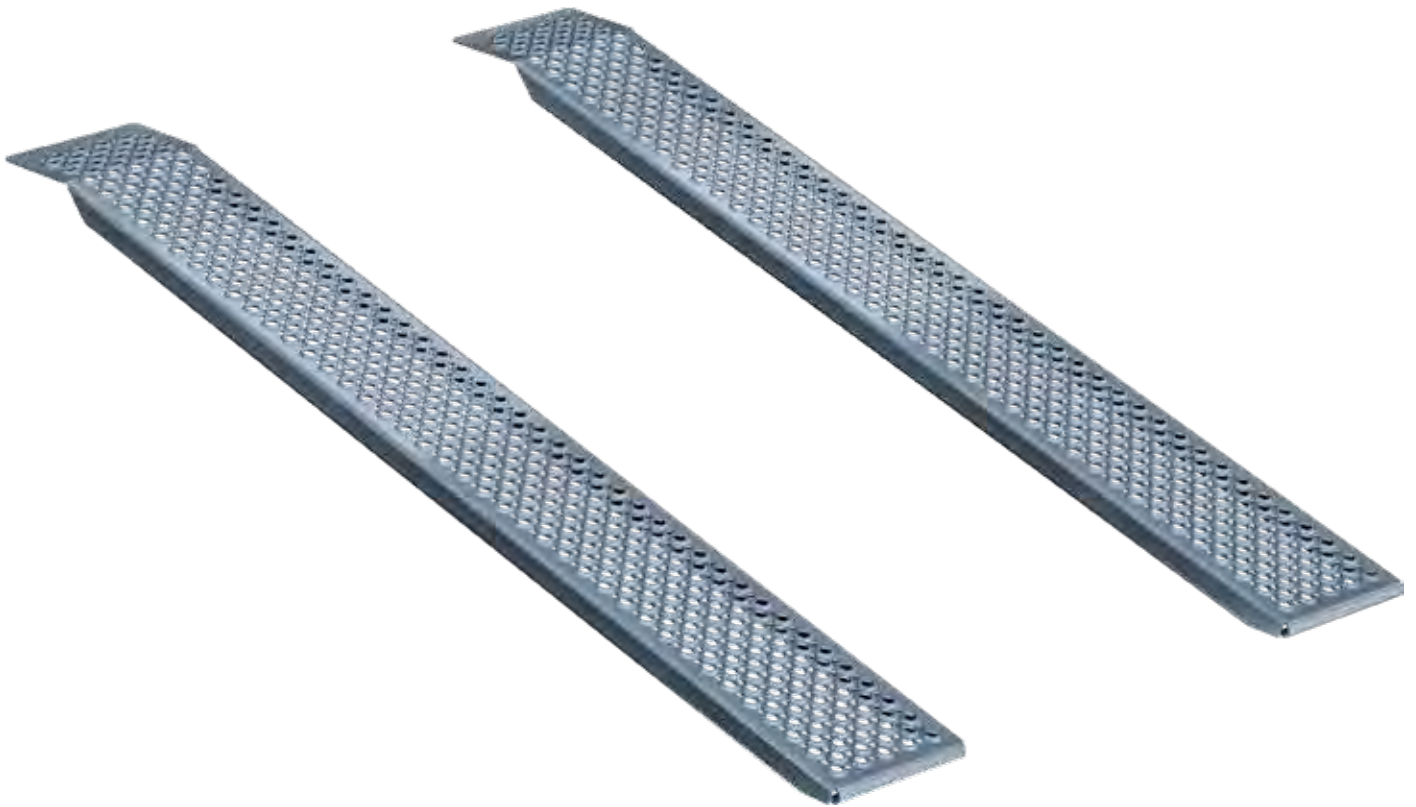
300131515

Leaning ladder

8 rungs, length 2500 mm,
aluminium with rubber longeron
ends, weight 3.90 kg.

As per DIN EN 131, load capacity
150 kg.

300131982



Aluminium ramps, straight

Supplied in pairs.

Item number	Width [mm]	Length [mm]	Max. wheel width [mm]	Load capacity [kg/pair]	Ramp height [mm]	Weight [kg/m]
370561500	200	1500	180	400	405–450	6.34
370561501	200	2000	180	400	550–600	9.02
370561502	260	1500	240	1000	405–450	11.40
370561503	260	2000	240	1000	550–600	14.76
370561504	260	2500	240	1000	700–850	18.75
370561505	260	3000	240	1000	850–900	27.00

Aluminium ramps, curved

Supplied in pairs.

Item number	Width [mm]	Length [mm]	Max. wheel width [mm]	Load capacity [kg/pair]	Ramp height [mm]	Weight [kg/m]
370561506	200	1500	180	400	405–450	6.34
370561507	200	2000	180	400	550–600	9.02
370561509	260	2000	240	1000	550–600	17.00
370561508	260	2500	240	1000	700–850	18.75



STEEL SIDE BOARD PROFILES

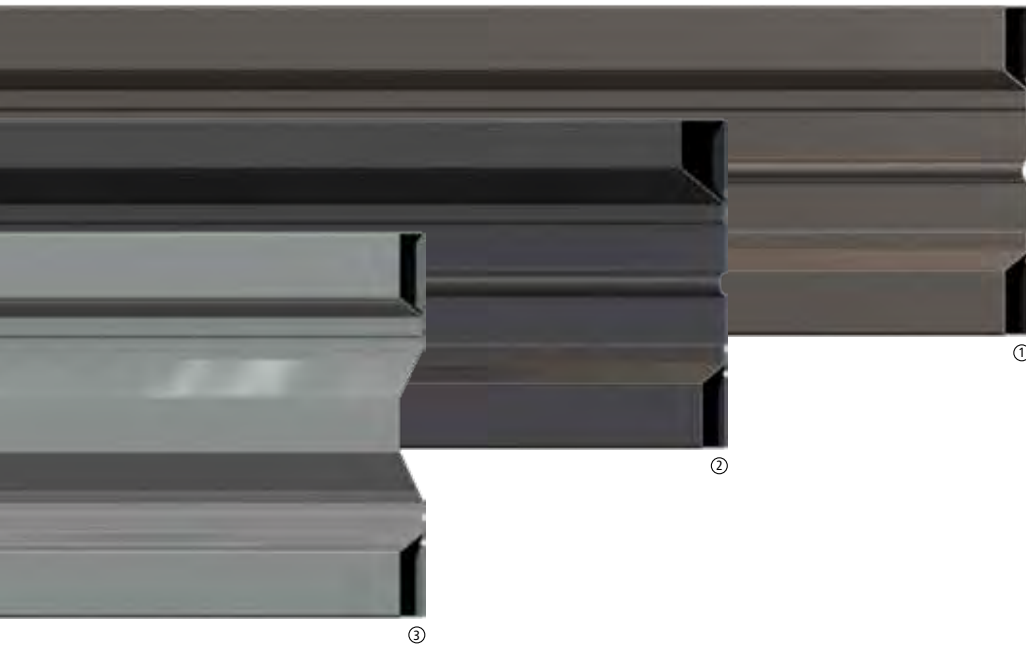


SIDE BOARD HEIGHTS 300 MM + 350 MM	188
SIDE BOARD HEIGHT 400 MM	189
SIDE BOARD HEIGHT 450 MM	192
SIDE BOARD HEIGHT 500 MM	193
SIDE BOARD HEIGHT 600 MM	196
SIDE BOARD HEIGHT 800 MM	197
SIDE BOARD HEIGHTS 940 MM + 1000 MM	199
ACCESSORIES	200

Steel side board profiles can be cut to any desired length and be fitted with any type of mounting, hinge or fastener.

Matching side boards and attachments

We offer you steel side boards from three different manufacturers, identified in the tables with the letters **A**, **B** and **C**. This labelling is primarily intended to help you choose matching side boards and attachments, as the profiles may differ in details, even if this is not apparent in the illustration. The profiles of manufacturer **C** are an almost identical alternative to **A**, which is why we have not included their own cross-section drawings.



Side board, 300 mm

Raw steel.

Item number	Pos.	Type/Manufacturer	Length [mm]	Weight [kg/m]
365711628	1	P 300/33/33 NS - B	2500	9.30

Side board, 300 mm, reinforced

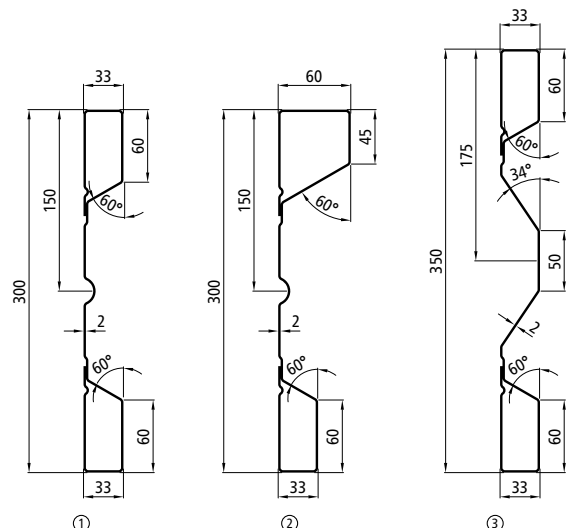
Raw steel.

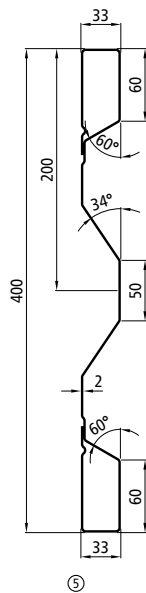
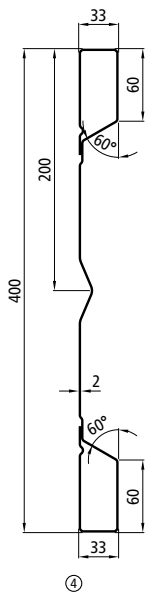
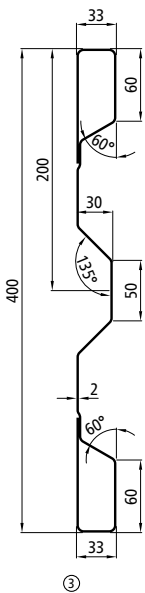
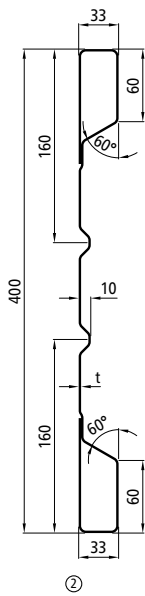
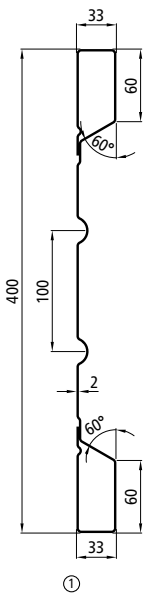
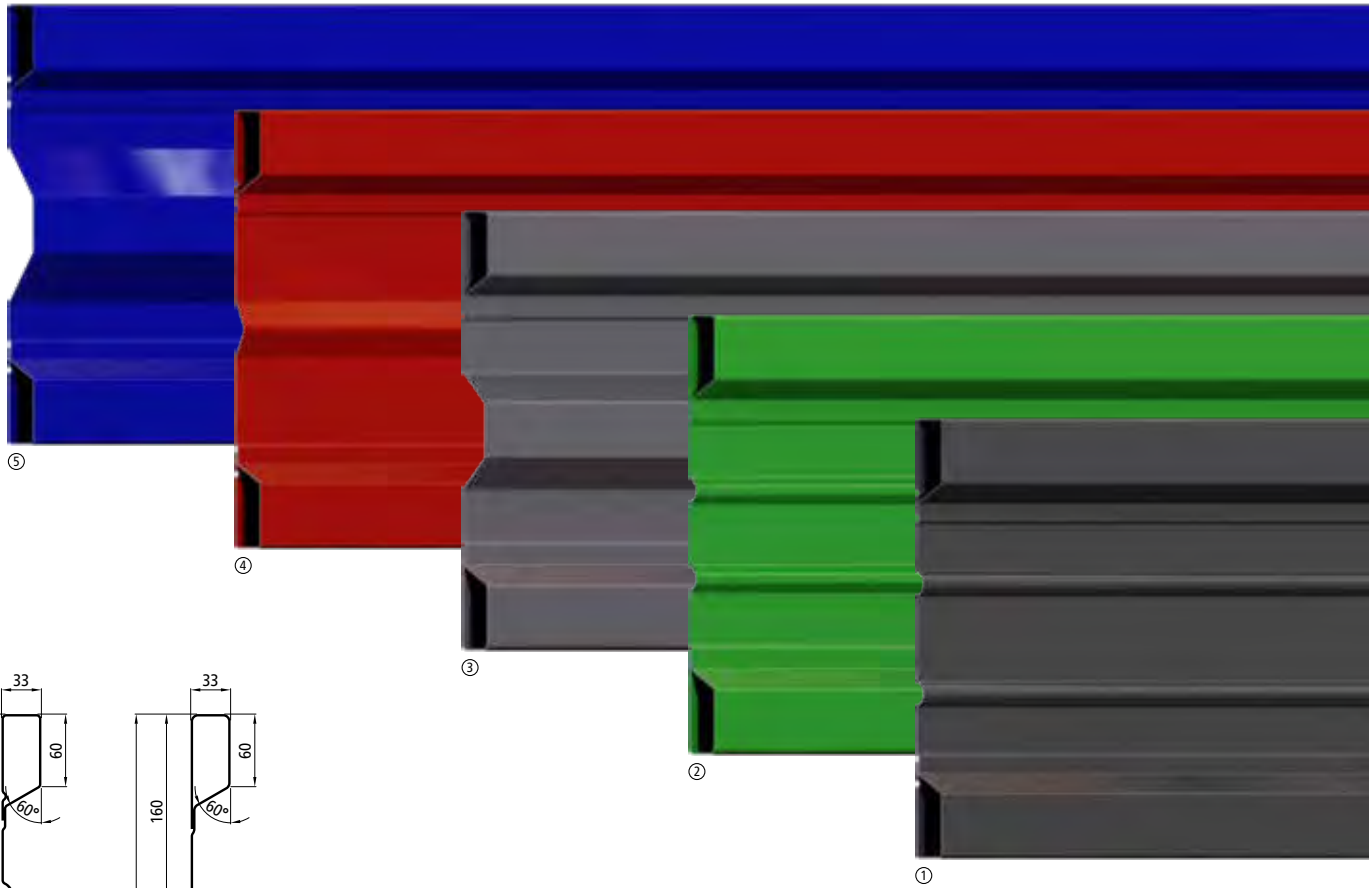
Item number	Pos.	Type/Manufacturer	Length [mm]	Weight [kg/m]
365711791	2	P 300/60/33 NS - B	5000	10.00

Side board, 350 mm

Raw steel.

Item number	Pos.	Type/Manufacturer	Length [mm]	Weight [kg/m]
365711796	3	P 350/33/33 FS - B	6000	10.40
365716113	3	P 350/33/33 FS - B	6500	10.40





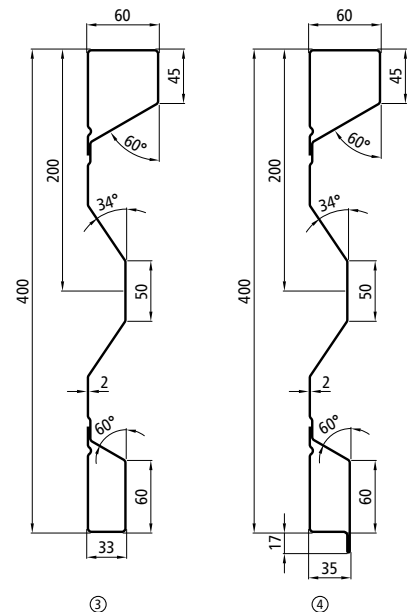
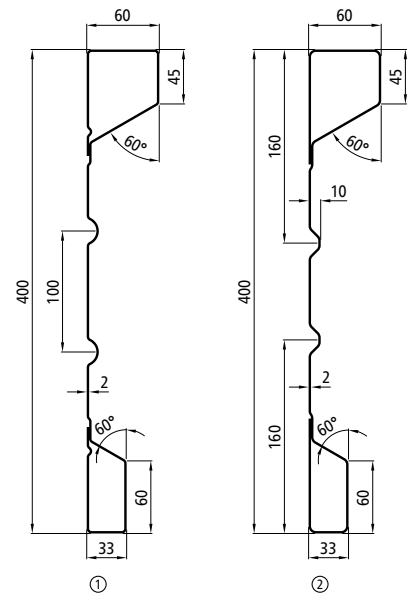
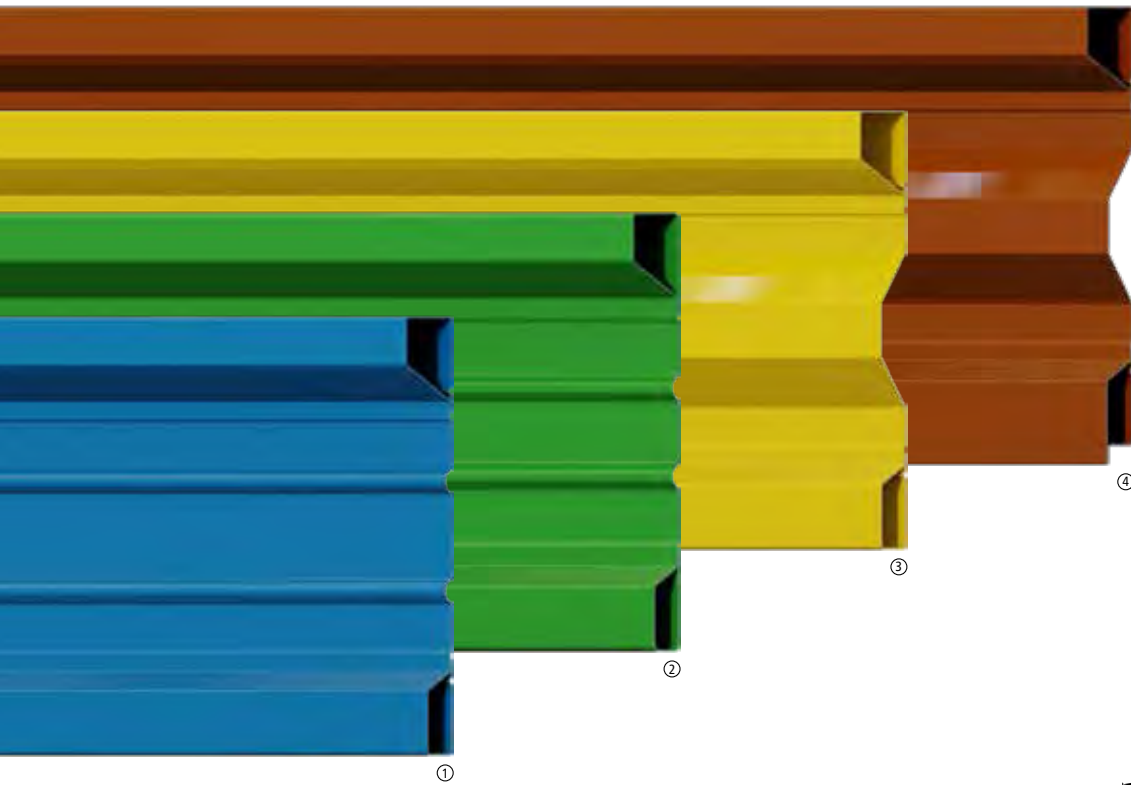
Side boards, 400 mm

Raw steel.

④ Unimog profile.

Item number	Pos.	Type/Manufacturer	Dim. t [mm]	Length [mm]	Weight [kg/m]
365711361	1	P 400/33/33 NS - B	2.00	2000	10.90
365711569	1	P 400/33/33 NS - B	2.00	2500	10.90
365711605	1	P 400/33/33 NS - B	2.00	4000	10.90
365711823	1	P 400/33/33 NS - B	2.00	4500	10.90
365711302	1	P 400/33/33 NS - B	2.00	5000	10.90
365711341	1	P 400/33/33 NS - B	2.00	6000	10.90
365711359	1	P 400/33/33 NS - B	2.00	7000	10.90
365711100	2	HV 400 - A	1.25	6000	6.80
365711111	2	HV 400 - A	1.50	6000	8.20
365711185	2	HV 400 - A	2.00	4500	10.90
365711186	2	HV 400 - A	2.00	5000	10.90
365711102	3	HVKT 400 - A	2.00	5000	11.20
365711112	3	HVKT 400 - A	2.00	6000	8.20
365711609	4	P 400/33/33 VS - B	2.00	6000	11.00
365711366	5	P 400/33/33 FS - B	2.00	2000	11.20
365711424	5	P 400/33/33 FS - B	2.00	2400	11.20
365711486	5	P 400/33/33 FS - B	2.00	4000	11.20
365711365	5	P 400/33/33 FS - B	2.00	5000	11.20
365716128	5	P 400/33/33 FS - B	2.00	6000	11.20

The left-hand profile side faces inward.



Side boards, 400 mm, reinforced

Raw steel.

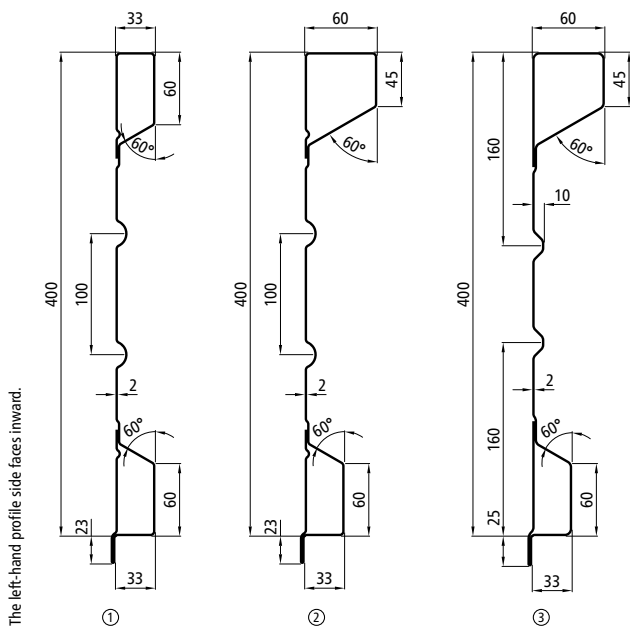
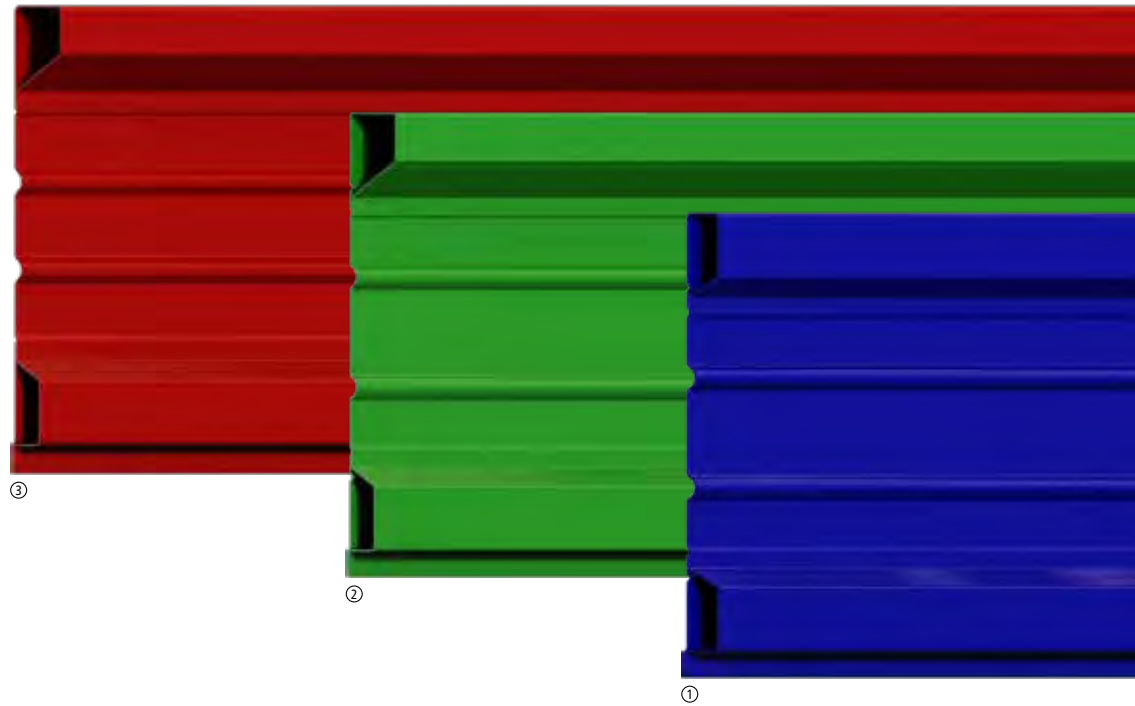
Item number	Pos.	Type	Length [mm]	Weight [kg/m]
365711669	1	P 400/60/33 NS - B	4500	11.60
365711105	2	B 400 - A	5000	11.60
365711106	2	B 400 - A	6000	11.60
365711774	3	P 400/60/33 FS - B	2000	11.90
365711463	3	P 400/60/33 FS - B	4500	11.90

Side boards, 400 mm, reinforced

Profiled outer sealing strip, raw steel.

Item number	Pos.	Type	Length [mm]	Weight [kg/m]
365711844	4	PDLA 400/60/33 FS - B	3800	12.30

The left-hand profile side faces inward.



Attachment board, 400 mm

Profiled inner sealing strip, raw steel.

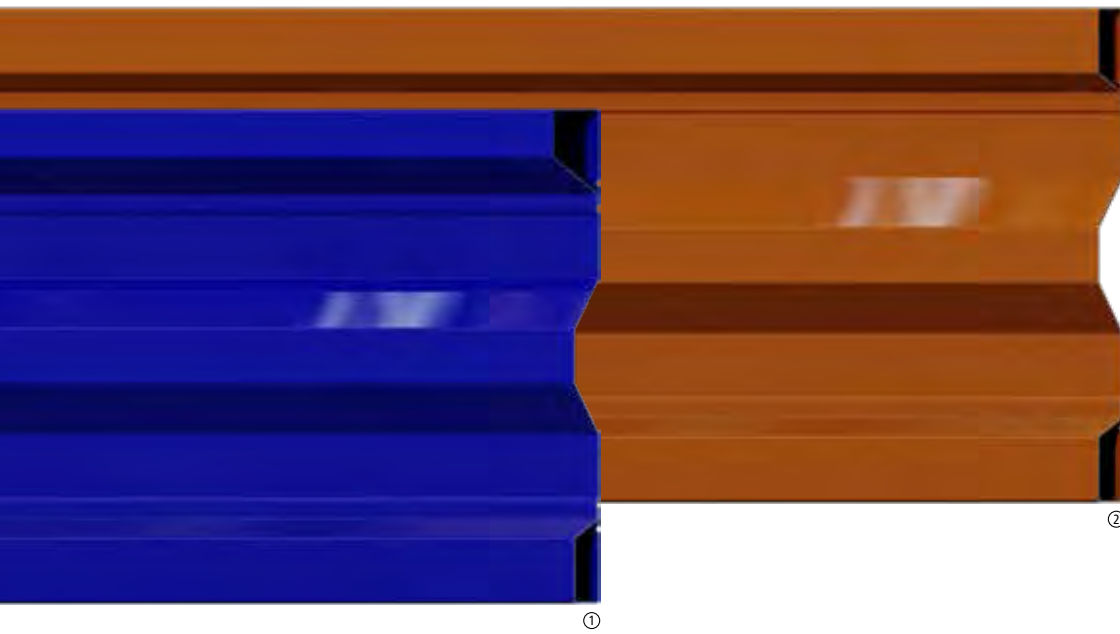
Item number	Pos.	Type/Manufacturer	Length [mm]	Weight [kg/m]
365711360	1	PDLI 400/33/33 NS - B	6000	11.70

Attachment boards, 400 mm, reinforced

Profiled inner sealing strip, raw steel.

Item number	Pos.	Type/Manufacturer	Length [mm]	Weight [kg/m]
365711410	2	PDLI 400/60/33 NS - B	4500	12.40
365711614	2	PDLI 400/60/33 NS - B	5000	12.40
365711179	3	BAK 400 - A	4500	12.40

Please ask your sales consultant about other profile cross-sections or other mounting lengths, and even delivery of side boards cut precisely to measure.



Side board, 450 mm

Raw steel.

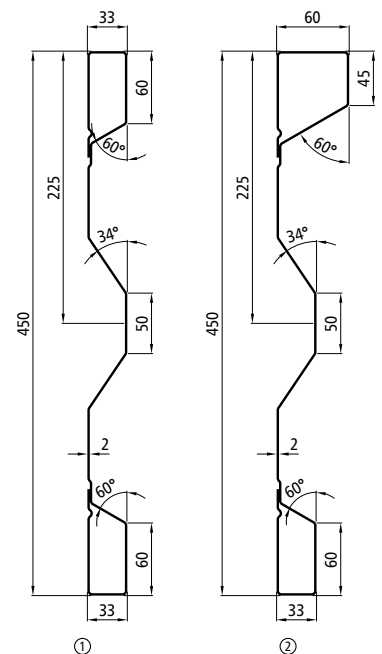
Unimog profile.

Item number	Pos.	Type/Manufacturer	Length [mm]	Weight [kg/m]
365711588	1	P 450/33/33 FS - B	2100	11.90

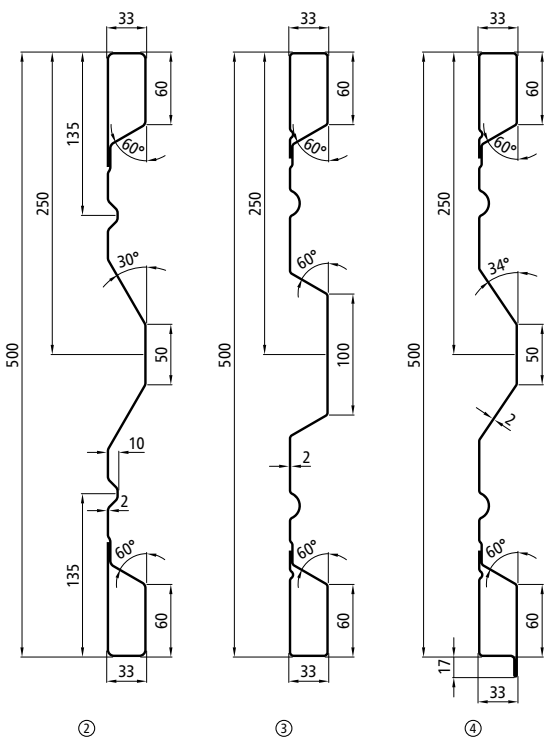
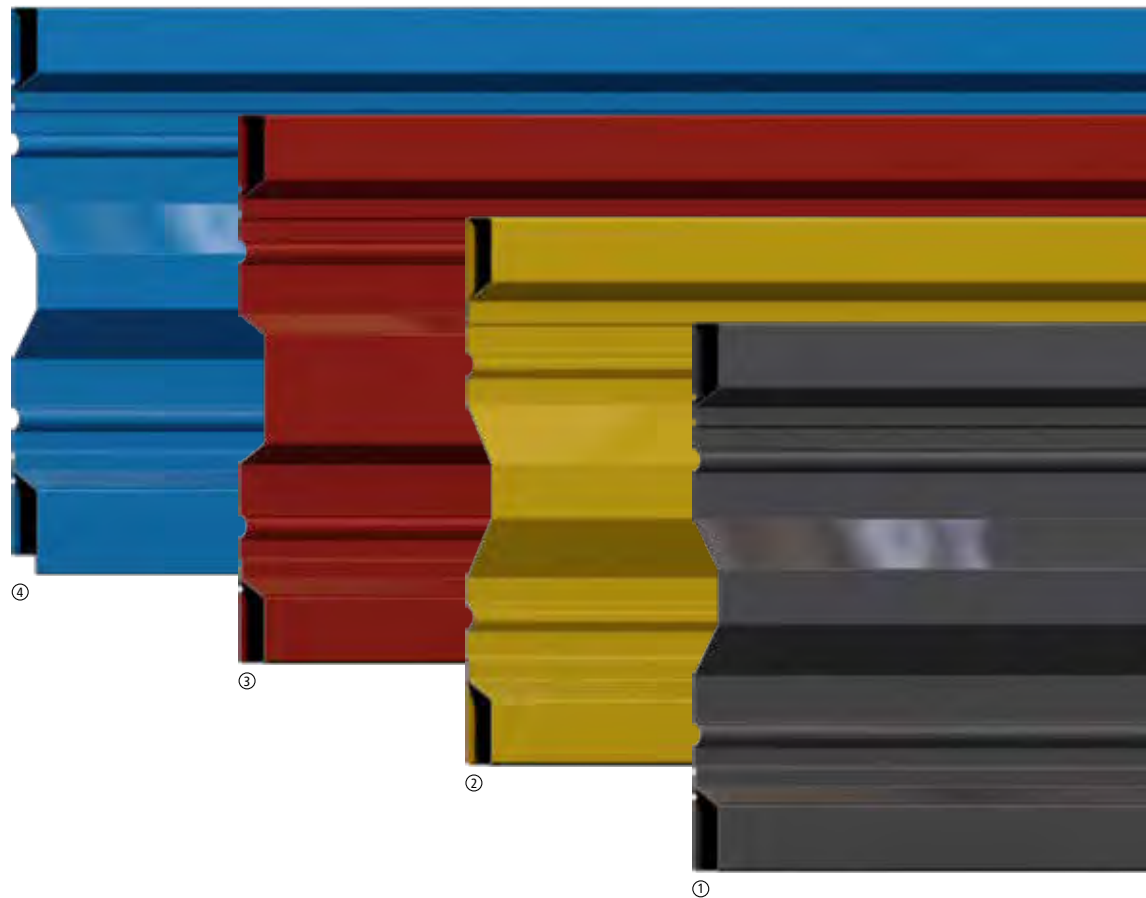
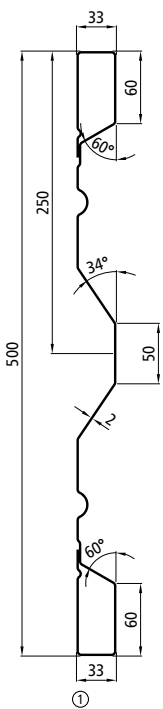
Side board, 450 mm, reinforced

Raw steel.

Item number	Pos.	Type/Manufacturer	Length [mm]	Weight [kg/m]
365711790	2	P 450/60/33 FS - B	5000	12.60



The left-hand profile side faces inward.



The left-hand profile side faces inward.

Side boards, 500 mm

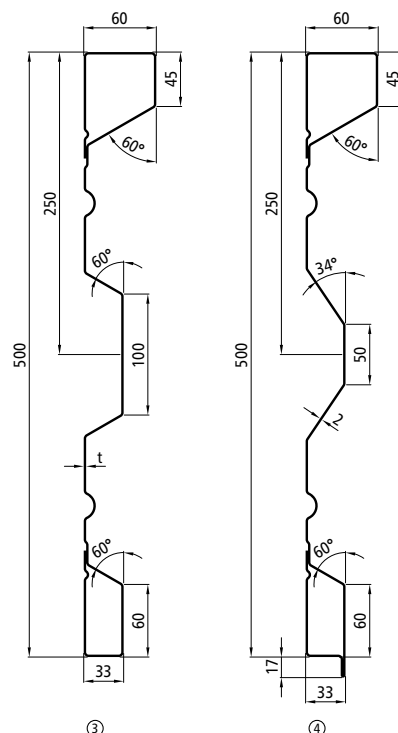
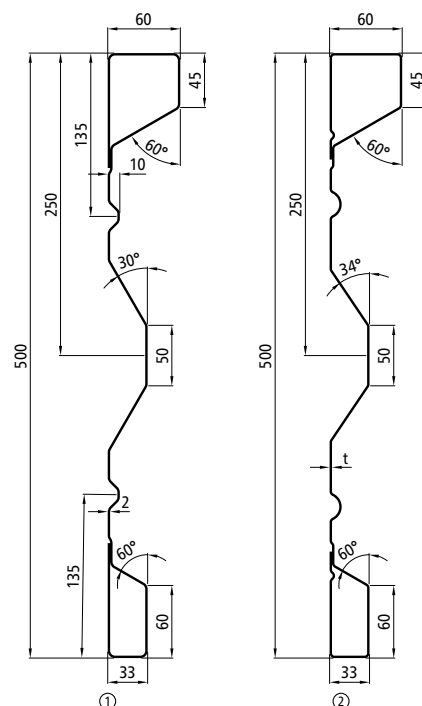
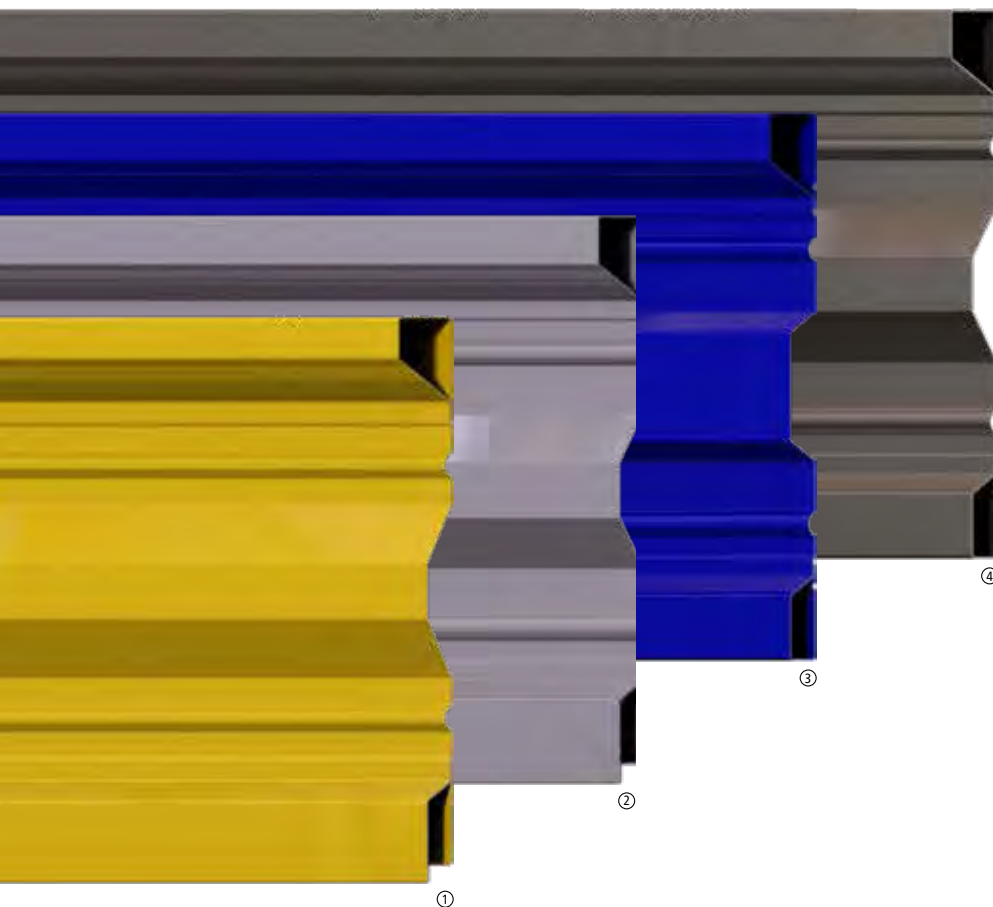
Raw steel.

Item number	Pos.	Type/Manufacturer	Length [mm]	Weight [kg/m]
365711484	1	P 500/33/33 FS - B	2500	12.80
365711443	1	P 500/33/33 FS - B	4000	12.80
365711573	1	P 500/33/33 FS - B	4500	12.80
365711483	1	P 500/33/33 FS - B	5000	12.80
365711172	2	HV 500 - A	4500	12.80
365711103	2	HV 500 - A	5000	12.80
365711104	2	HV 500 - A	6000	12.80
365716103	2	PBPF 500/33 - C	5000	12.80
365716104	2	PBPF 500/33 - C	6000	12.80
365711751	3	P 500/33/33 TS - B	2000	12.77

Side board, 500 mm

Profiled outer sealing strip, raw steel.

Item number	Pos.	Type/Manufacturer	Length [mm]	Weight [kg/m]
365711822	4	PDLA 500/33/33 FS - B	5000	13.20



Side boards, 500 mm, reinforced

Raw steel.

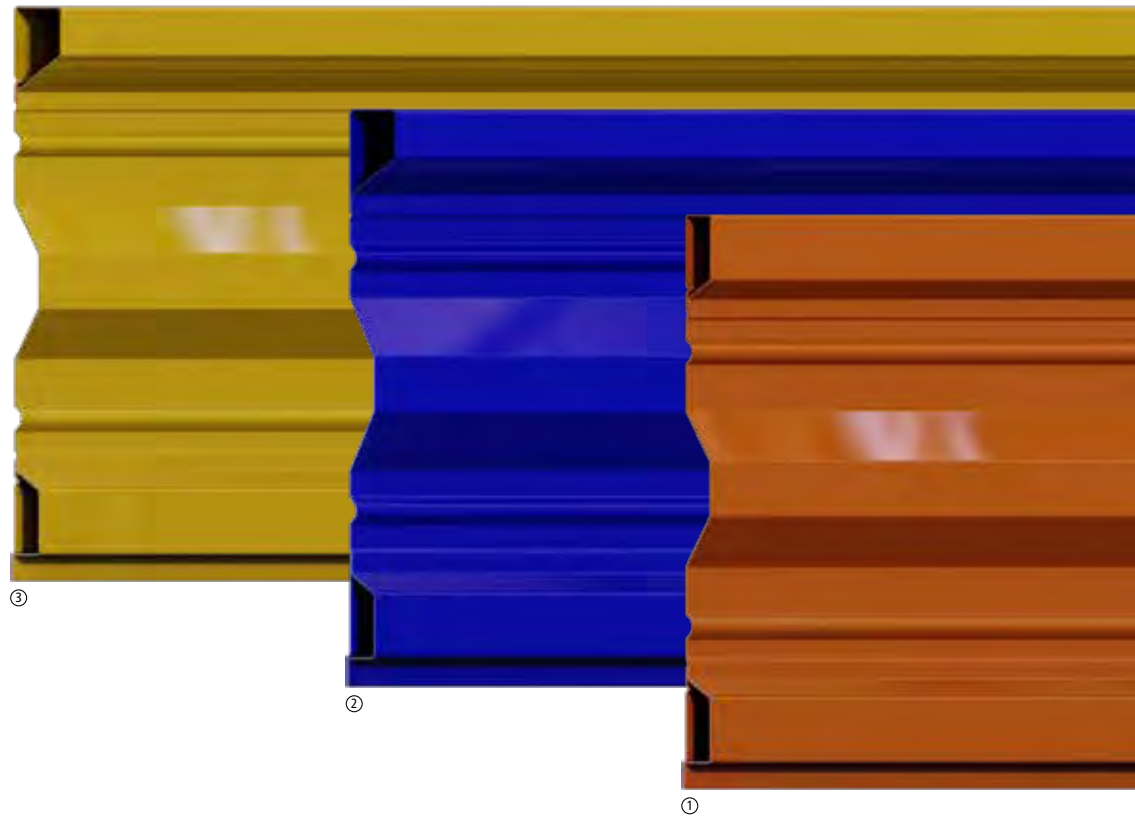
Item number	Pos.	Type/Manufacturer	Dim. t [mm]	Length [mm]	Weight [kg/m]
365711177	1	B 500 - A	2.0	4500	13.40
365711107	1	B 500 - A	2.0	5000	13.40
365711108	1	B 500 - A	2.0	6000	13.40
365716107	1	PBBF 500/60 - C	2.0	5000	13.40
365716108	1	PBBF 500/60 - C	2.0	6000	13.40
365711763	2	P 500/60/33 FS - B	2.0	2500	13.40
365711363	2	P 500/60/33 FS - B	2.0	4500	13.40
365711622	2	P 500/60/33 FS - B	2.5	2400	16.80
365711557	2	P 500/60/33 FS - B	2.5	2500	16.80
365711505	2	P 500/60/33 FS - B	2.5	4500	16.80
365711713	3	P 500/60/33 TS - B	2.0	4500	13.38

Side board, 500 mm, reinforced

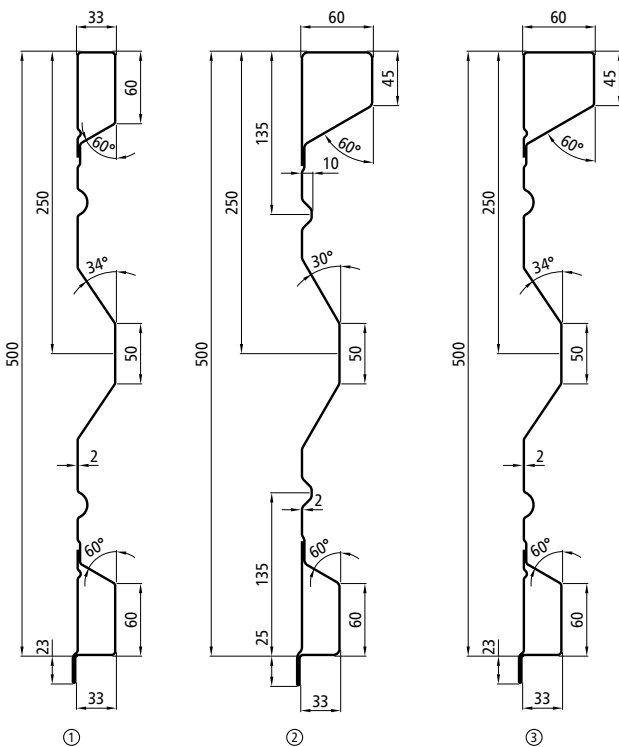
Profiled outer sealing strip, raw steel.

Item number	Pos.	Type/Manufacturer	Length [mm]	Weight [kg/m]
365711577	4	PDLA 500/60/33 FS - B	4000	13.90
365711701	4	PDLA 500/60/33 FS - B	4500	13.90

The left-hand profile side faces inward.



The left-hand profile side faces inward.



Attachment boards, 500 mm

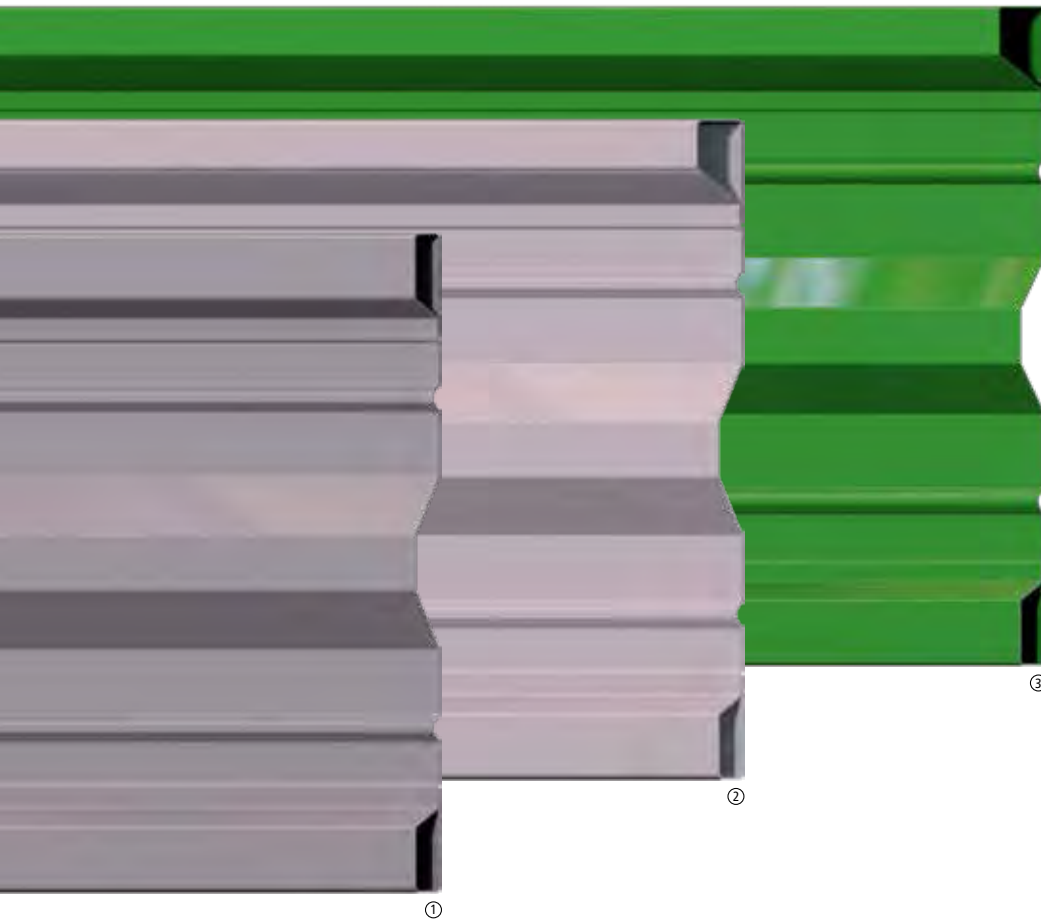
Profiled inner sealing strip, raw steel.

Item number	Pos.	Type/Manufacturer	Length [mm]	Weight [kg/m]
365711574	1	PDLI 500/33/33 FS - B	4500	13.60
365711770	1	PDLI 500/33/33 FS - B	5000	13.60

Attachment boards, 500 mm, reinforced

Profiled inner sealing strip, raw steel.

Item number	Pos.	Type/Manufacturer	Length [mm]	Weight [kg/m]
365711181	2	BAK 500 - A	4500	14.20
365711182	2	BAK 500 - A	5000	14.20
365711375	3	PDLI 500/60/33 FS - B	4500	14.20
365711376	3	PDLI 500/60/33 FS - B	5000	14.20



Side board, 600 mm

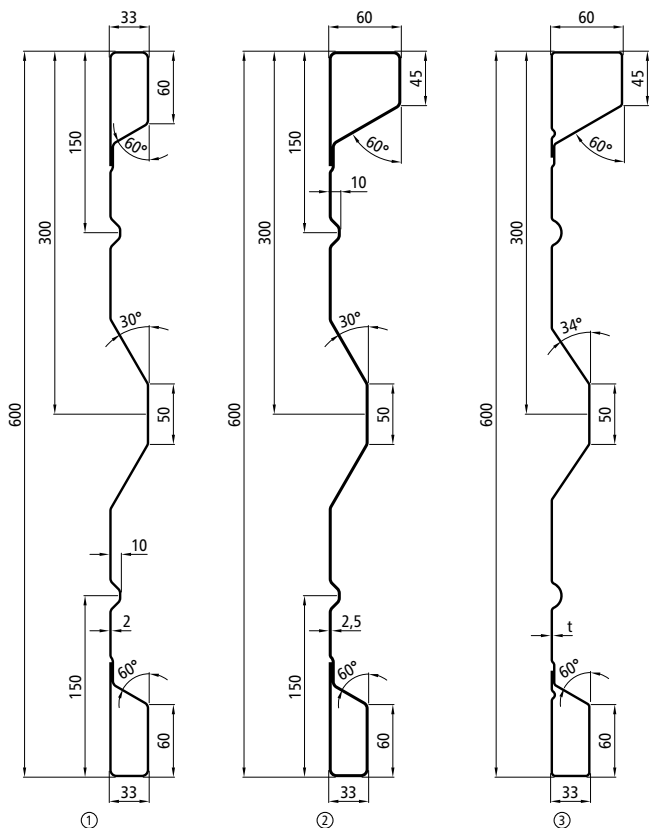
Raw steel.

Item number	Pos.	Type/Manufacturer	Length [mm]	Weight [kg/m]
365711175	1	HV 600 - A	5000	14.30

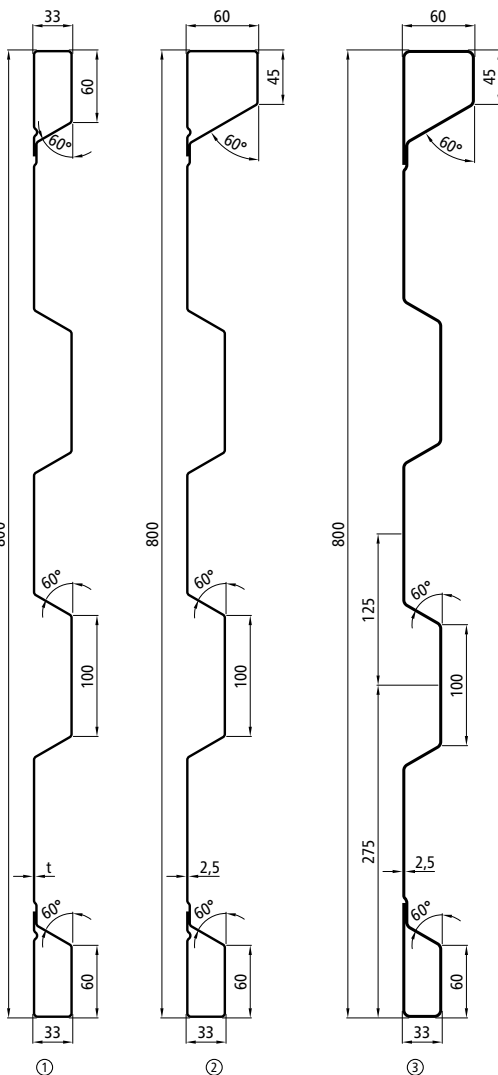
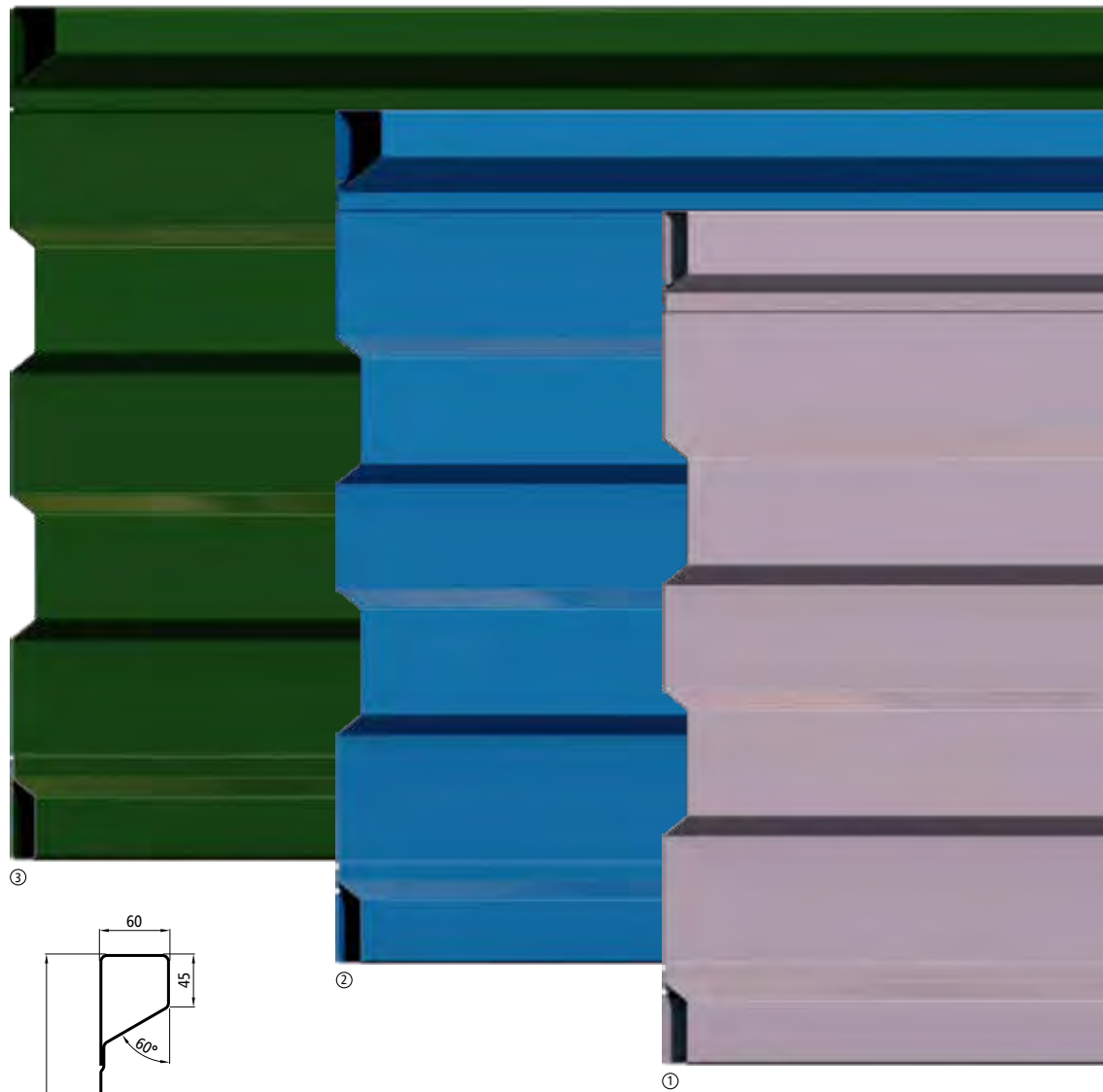
Side boards, 600 mm, reinforced

Raw steel.

Item number	Pos.	Type/Manufacturer	Dim. t [mm]	Length [mm]	Weight [kg/m]
365711178	2	B 600 - A	2.5	4500	18.80
365711109	2	B 600 - A	2.5	5000	18.80
365711110	2	B 600 - A	2.5	6000	18.80
365716109	2	PBBF 600/60 - C	2.5	5000	18.80
365716110	2	PBBF 600/60 - C	2.5	6000	18.80
365711591	3	P 600/60/33 FS - B	2.0	2000	15.00
365711732	3	P 600/60/33 FS - B	2.0	2500	15.00
365711395	3	P 600/60/33 FS - B	2.5	2400	18.80
365711571	3	P 600/60/33 FS - B	2.5	2500	18.80
365711570	3	P 600/60/33 FS - B	2.5	4500	18.80
365711407	3	P 600/60/33 FS - B	2.5	5000	18.80



The left-hand profile side faces inward.



The left-hand profile side faces inward.

Side board, 800 mm

Raw steel.

Item number	Pos.	Type/Manufacturer	Dim. t [mm]	Length [mm]	Weight [kg/m]
365711488	1	P 800/33/33 2 TS - E	2.00	2500	18.32
365711576	1	P 800/33/33 2 TS - E	2.50	2500	22.60

Side board, 800 mm, reinforced

Raw steel.

Item number	Pos.	Type/Manufacturer	Length [mm]	Weight [kg/m]
365711671	2	P 800/60/33 2 TS - E	2500	23.70
365711670	2	P 800/60/33 2 TS - E	4500	23.70
365711333	2	P 800/60/33 2 TS - E	5000	23.70
365711200	3	BTT 800 - A	6000	23.60

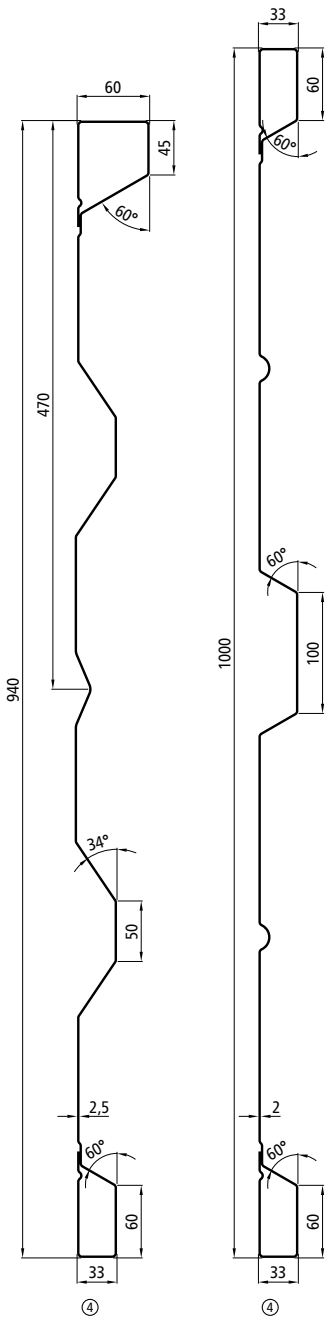


S-Line is a mark of cargo control quality

There is hardly any load which cannot be secured with items from our Cargo Control catalogue, all in accordance with industry association requirements.

The Cargo Control catalogue is available in english and german from your sales consultant, or can be downloaded from our website: www.suer.de.

The left-hand profile side faces inward.



Side board, 940 mm, reinforced

Raw steel.

Item number	Pos.	Type/Manufacturer	Length [mm]	Weight [kg/m]
365711638	1	P 940/60/33 2FS 1VS - ②	5000	26.00

Side board, 1000 mm

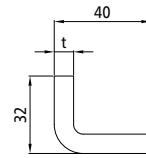
Raw steel.

Item number	Pos.	Type/Manufacturer	Length [mm]	Weight [kg/m]
365711404	2	P 1000/33/33 WS - ②	6000	20.38

Side board end strips

Edged sheeting, raw steel.

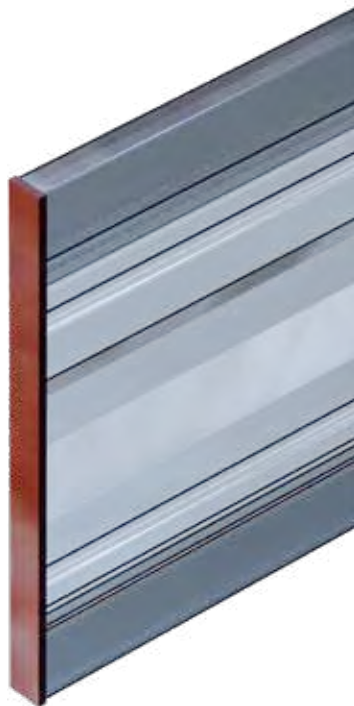
Item number	Dim. t [mm]	Length [mm]	Weight [kg]
365711495	4	400	0.82
365711446	6	400	1.19
365711447	6	500	1.48
365711312	8	400	1.52
365711313	8	500	1.90
365711314	8	600	2.28



Side board end strips

Flat steel, 35 × 8 mm, raw.

Item number	Length [mm]	Weight [kg]
365711543	400	0.88
365711381	500	1.10

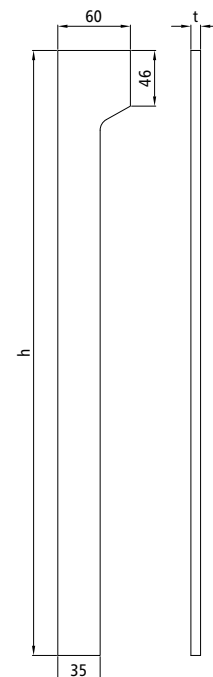


Your sales consultant will be glad to help you with any further accessories, alternative dimensions or designs.

Side board end strips for reinforced steel side boards

Raw steel.

Item number	Dim. t [mm]	Dim. h [mm]	Weight [kg]
365711453	8	300	0.74
365711317	8	400	0.96
365711318	8	500	1.18
365711319	8	600	1.40
365711320	8	800	1.84
365711580	10	600	1.75
365716125	10	800	2.10



Side board pull-off and tension springs

Consisting of coil springs and accessories set.

Please order all parts separately.

Coil spring

Pos. 1, spring 58×8×340 mm with mounting screws M12×110, weight 2.67 kg.

215131694

Coil spring

As for Pos. 1, spring 58×10×340 mm with mounting screws M12×110, weight 3.00 kg.

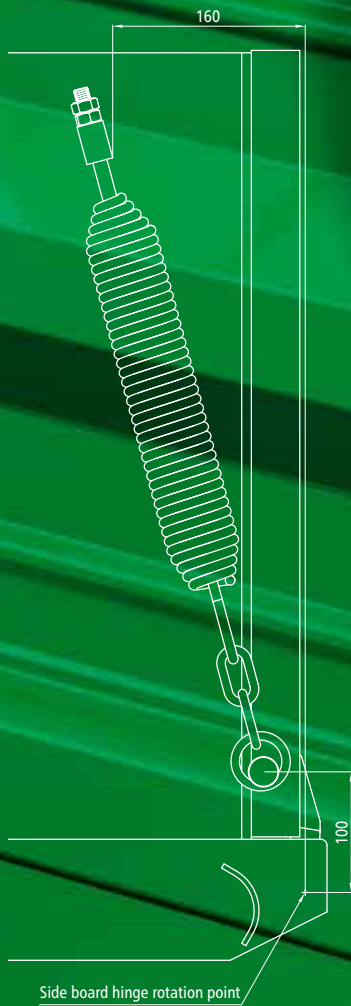
215131695

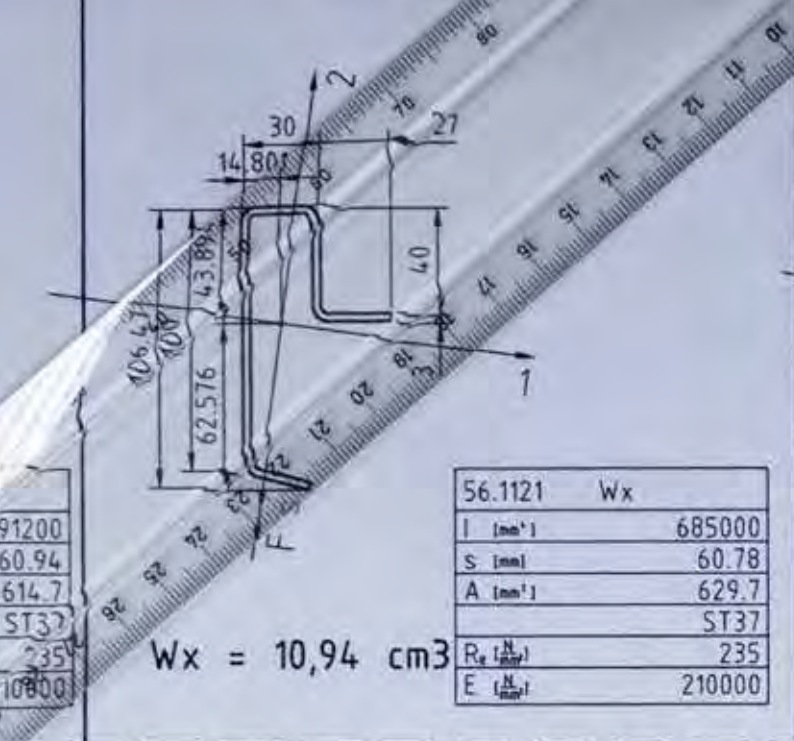
Accessories set

Consisting of the following:

- 2 - Retaining bushing with weld-on web
 - 3 - Round/oval link combination
 - 4 - Welded bolt with groove
 - 5 - Sliding plate
 - 6 - 2 x nuts M12
- Weight 0.66 kg.

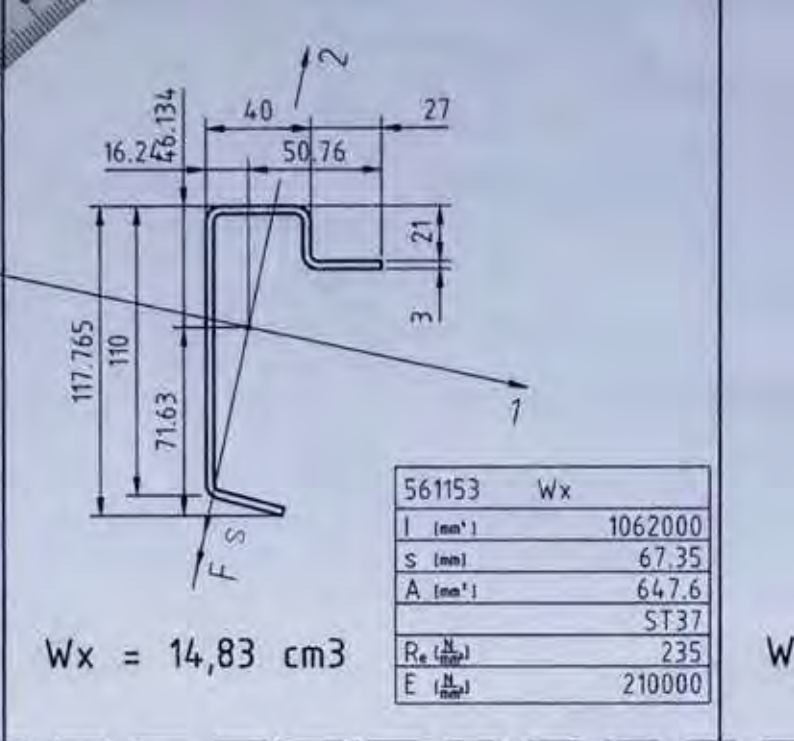
215131849





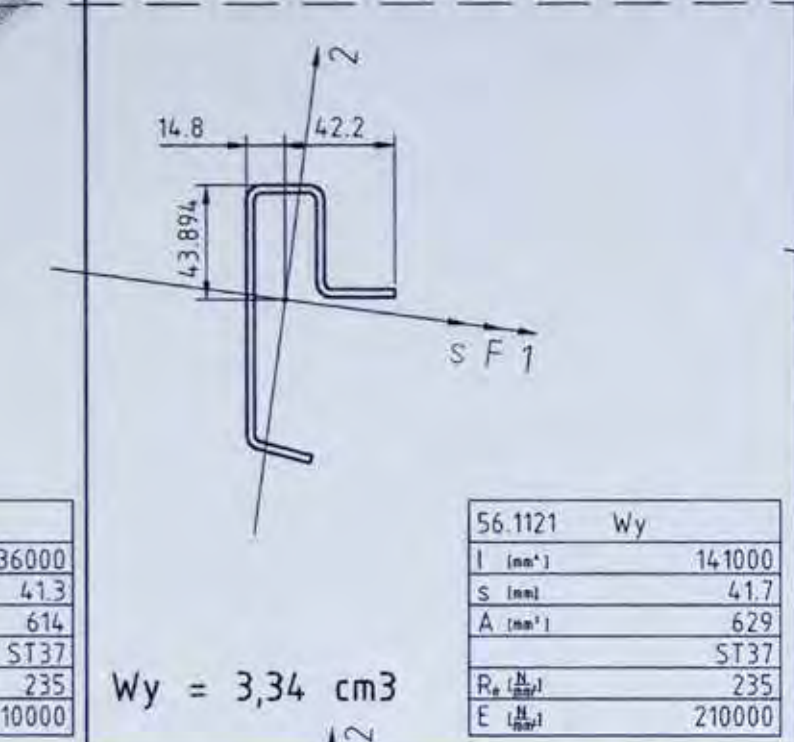
56.1121 Wx	
I (mm ⁴)	685000
S (mm)	60.78
A (mm ²)	629.7
	ST37
R _e (N/mm ²)	235
E (N/mm ²)	210000

W_x = 10,94 cm³



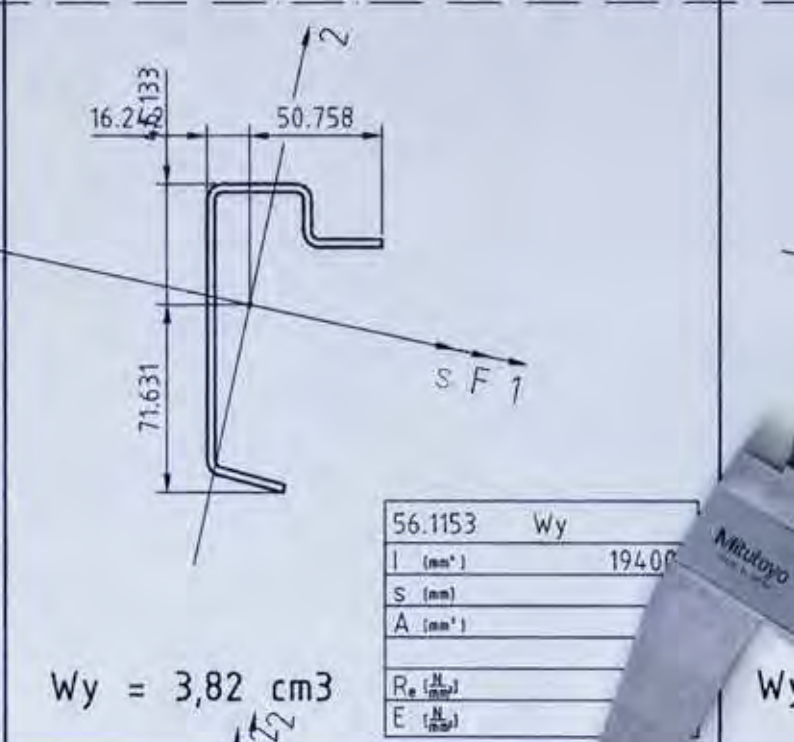
56.1153 Wx	
I (mm ⁴)	1062000
S (mm)	67.35
A (mm ²)	647.6
	ST37
R _e (N/mm ²)	235
E (N/mm ²)	210000

W_x = 14,83 cm³



56.1121 Wy	
I (mm ⁴)	141000
S (mm)	41.7
A (mm ²)	629
	ST37
R _e (N/mm ²)	235
E (N/mm ²)	210000

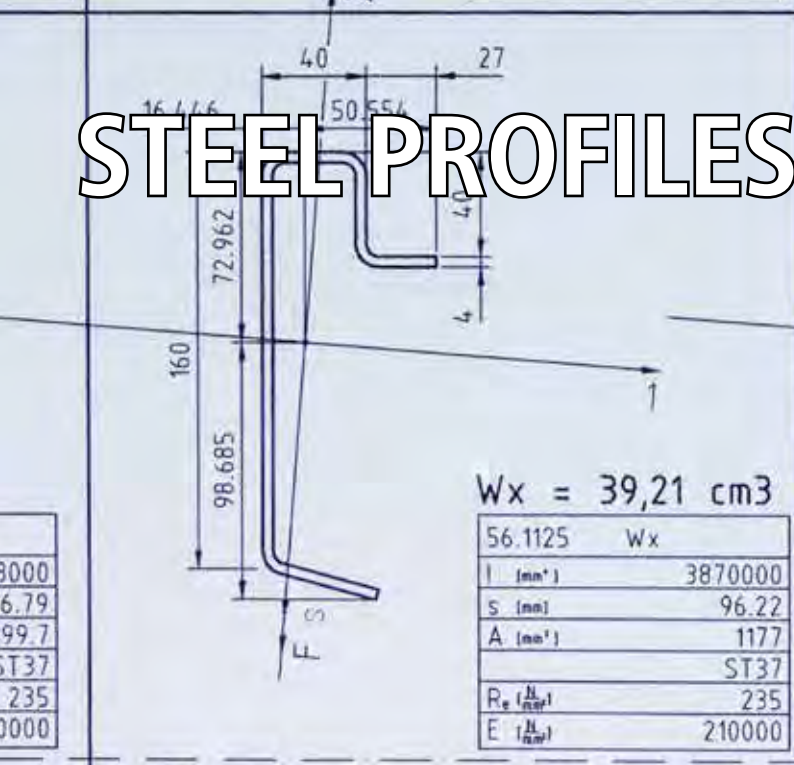
W_y = 3,34 cm³



56.1153 Wy	
I (mm ⁴)	194000
S (mm)	
A (mm ²)	
R _e (N/mm ²)	
E (N/mm ²)	

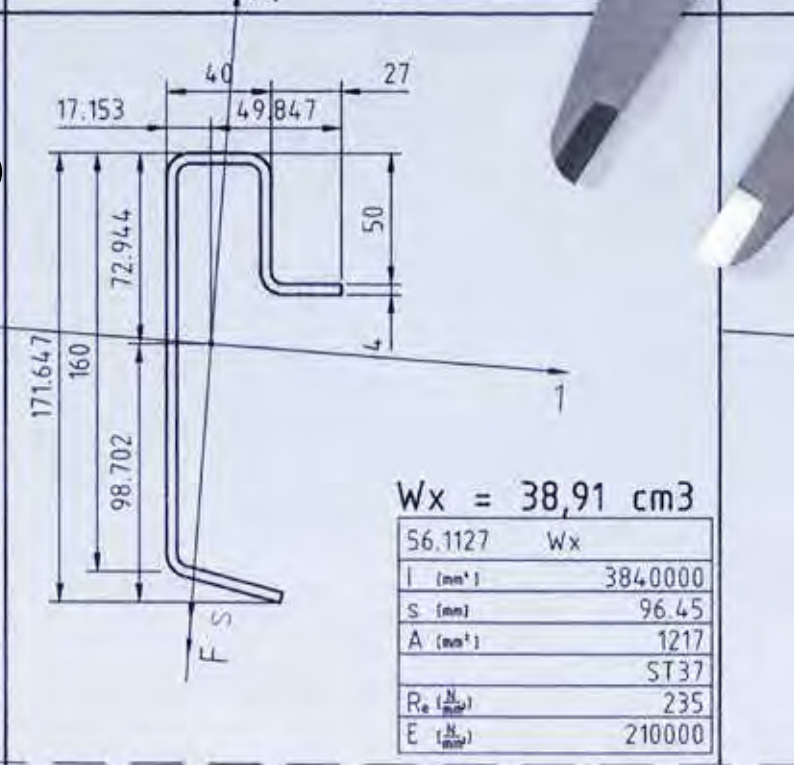
W_y = 3,82 cm³

STEEL PROFILES



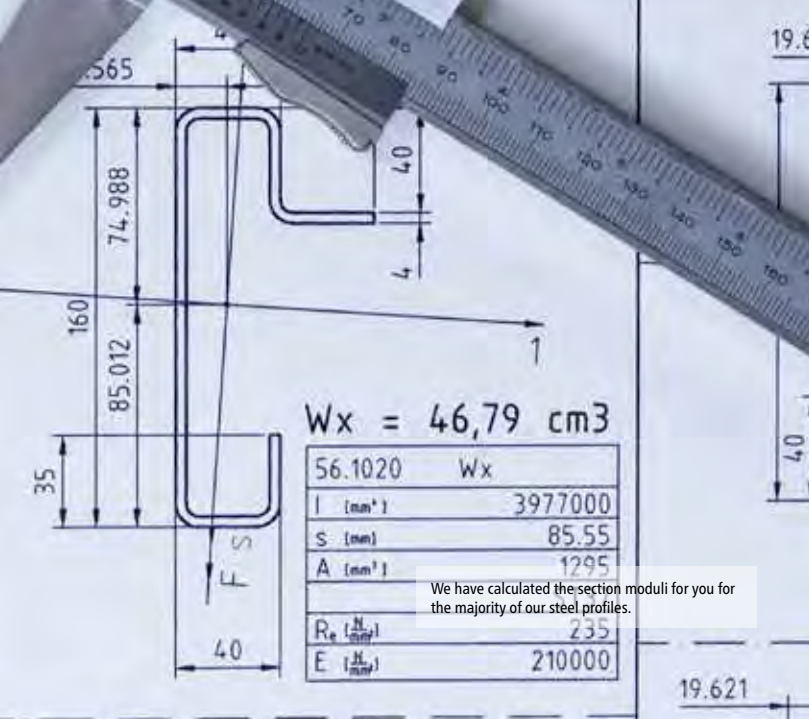
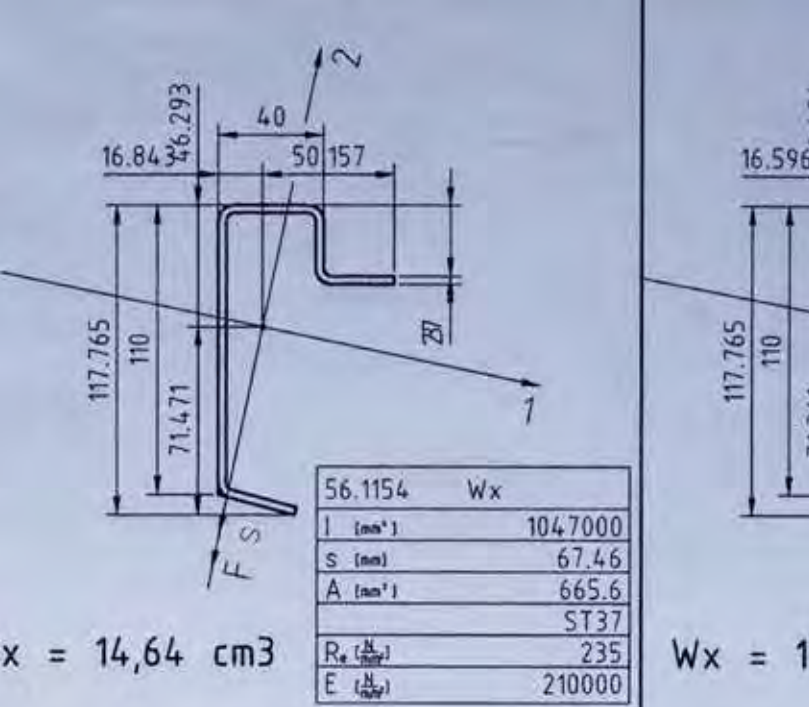
W_x = 39,21 cm³

56.1125 Wx	
I (mm ⁴)	3870000
S (mm)	96.22
A (mm ²)	1177
	ST37
R _e (N/mm ²)	235
E (N/mm ²)	210000



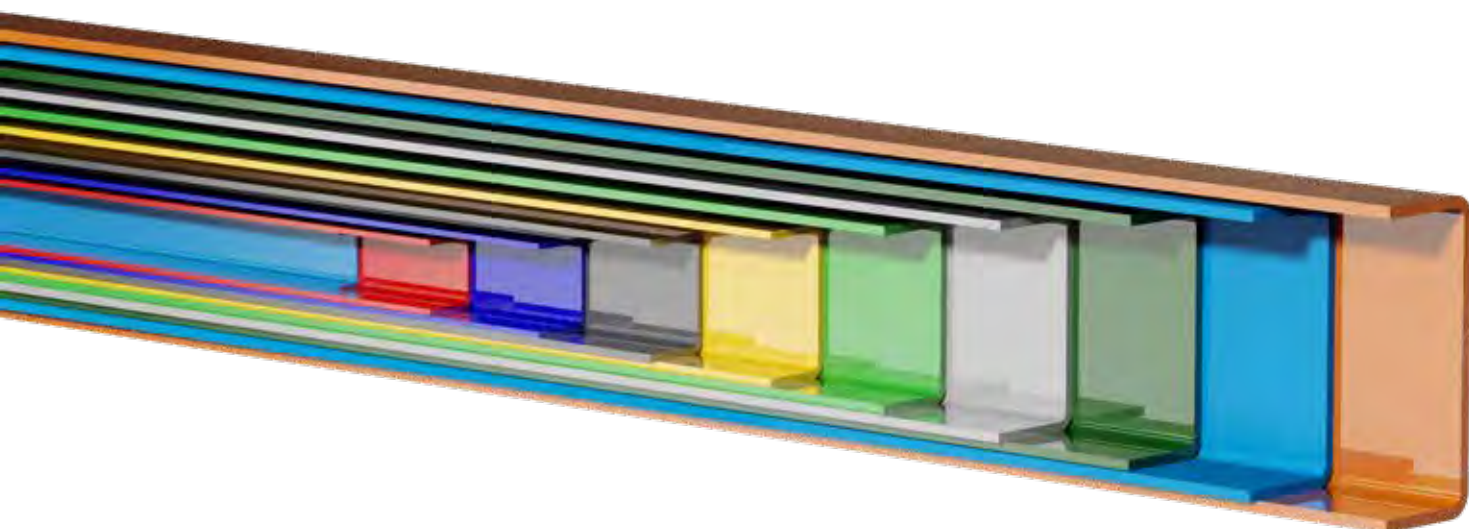
W_x = 38,91 cm³

56.1127 Wx	
I (mm ⁴)	3840000
S (mm)	96.45
A (mm ²)	1217
	ST37
R _e (N/mm ²)	235
E (N/mm ²)	210000



We have calculated the section moduli for you for the majority of our steel profiles.

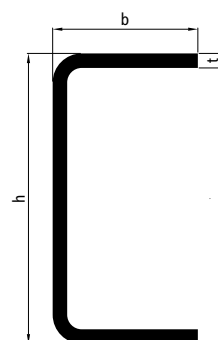
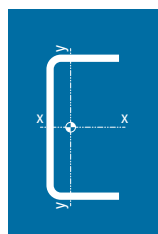
- U-STRUCTURAL STEEL 204
- FLOOR FRAME PROFILES 205
- U-SIDE BOARD PROFILES 213
- TOP HAT PROFILES 213
- BASE BOARD PROFILES 214
- TAILBOARD SUPPORTS 215
- CORNER PILLAR PROFILES 216
- CENTRE PILLAR PROFILES 219
- CARGOTRAIL SSP3 PROFILES 220
- GRATING 221



U-structural steel, S235JRG2 quality

Cold-profiled, raw steel.

Item number	Dim. h [mm]	Dim. b [mm]	Dim. t [mm]	W _x [cm ²]	W _y [cm ²]	Length [mm]	Weight [kg/m]
372561004	40	20	3	2.17	0.55	6000	1.65
372561006	46	45	3	5.85	2.78	6000	2.97
372561008	50	40	4	7.24	2.91	6000	3.67
372561009	54	45	4	8.98	3.71	6000	4.11
372561010	62	45	4	10.82	3.81	6000	4.36
372561011	70	50	4	13.99	4.77	6000	4.92
372562379	80	50	4	16.80	5.07	7600	5.24
372561012	80	50	5	19.86	5.96	6000	6.41
372561014	100	50	5	27.00	6.18	6000	7.20
372561016	120	60	6	46.67	10.68	6000	10.37
372561017	140	60	6	57.86	10.95	6000	11.31
372562116	140	60	6	57.86	10.95	7600	11.31



U-structural steel, S235JRG2 quality

Cold-profiled, sandblasted and primed steel.

Item number	Dim. h [mm]	Dim. b [mm]	Dim. t [mm]	W _x [cm ²]	W _y [cm ²]	Length [mm]	Weight [kg/m]
373561368	62	45	4	10.82	3.81	6000	4.36
373562379	80	50	4	16.80	5.07	7600	5.24
373561370	80	50	5	19.86	5.96	6000	6.41
373561371	100	50	5	27.00	6.18	6000	7.20
373561372	120	60	6	46.67	10.68	6000	10.37

U-structural steel, S355MC quality

Cold-profiled, raw steel.

Item number	Dim. h [mm]	Dim. b [mm]	Dim. t [mm]	W _x [cm ²]	W _y [cm ²]	Length [mm]	Weight [kg/m]
372561113	90	50	6	26.85	7.18	7300	8.02
372562488	120	60	6	46.67	10.68	7300	10.37

U-structural steel, S355J0 quality

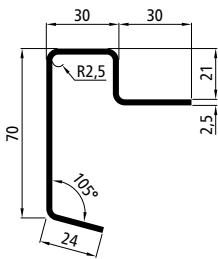
Cold-profiled, raw steel.

Item number	Dim. h [mm]	Dim. b [mm]	Dim. t [mm]	W _x [cm ²]	W _y [cm ²]	Length [mm]	Weight [kg/m]
372561265	120	60	6	46.67	10.68	6000	10.37
372561266	140	70	6	64.40	14.80	6000	12.20
372561267	160	70	7	87.50	17.40	6000	14.80
372561268	180	80	7	114.90	23.00	6000	17.00
372561269	200	80	8	151.50	26.36	6000	20.90

U-structural steel, S355J0 quality

Cold-profiled, sandblasted and primed steel.

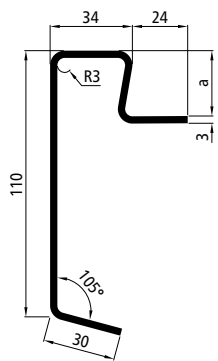
Item number	Dim. h [mm]	Dim. b [mm]	Dim. t [mm]	W _x [cm ²]	W _y [cm ²]	Length [mm]	Weight [kg/m]
373562117	160	70	7	87.50	17.40	6000	14.80
373561268	180	80	7	114.90	23.00	6000	17.00



Floor frame profiles - Flatbeds

S235JRG2, cold-profiled raw steel.

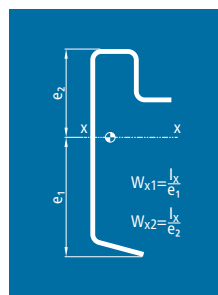
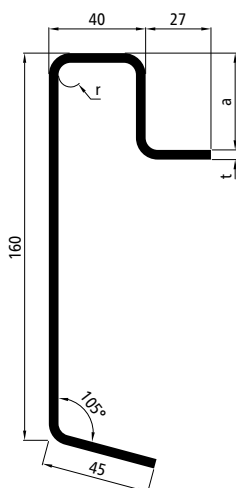
Item number	W _{x1} [cm ³]	W _{x2} [cm ³]	Length [mm]	Weight [kg/m]
372561146	5.56	8.65	6300	3.26



Floor frame profiles - Flatbeds

S235JRG2, cold-profiled.

Item number	Dim. a [mm]	W _{x1} [cm ³]	W _{x2} [cm ³]	Length [mm]	Version	Weight [kg/m]
372561153	21	14.33	21.31	6300	raw	5.09
373561153	21	14.33	21.31	6300	sandblasted + primed	5.09
372561154	27	14.15	20.93	6300	raw	5.23



Floor frame profiles - Flatbeds

S235JRG2, cold-profiled raw steel.

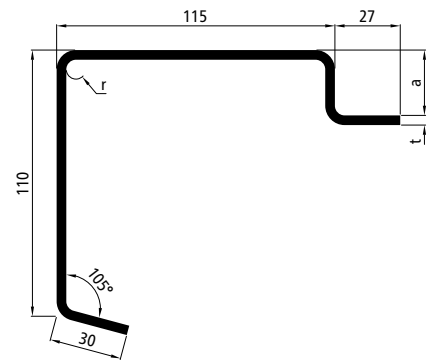
Item number	Dim. a [mm]	Dim. t [mm]	Dim. r [mm]	W _{x1} [cm ³]	W _{x2} [cm ³]	Length [mm]	Weight [kg/m]
372561234	27	3	3	30.76	41.78	6300	6.79
372561235	30	3	3	30.67	41.83	6300	6.89
372562125	40	4	5	39.20	53.05	7300	9.31



Floor frame profiles - Flatbeds

S235JRG2, cold-profiled raw steel.

Item number	Dim. a [mm]	Dim. t [mm]	Dim. r [mm]	W _{x1} [cm ³]	W _{x2} [cm ³]	Length [mm]	Weight [kg/m]
372561254	21	3	3	29.69	71.27	6300	6.90
372561255	27	3	3	30.17	71.41	6300	7.03
372561366	27	4	4	39.17	91.69	7300	9.18



Floor frame profiles - Flatbeds

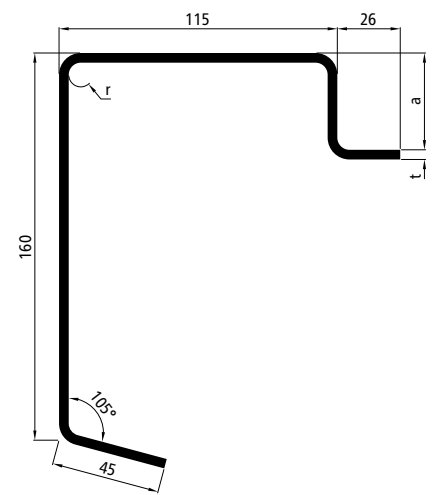
S235JRG2, cold-profiled, sandblasted and primed steel.

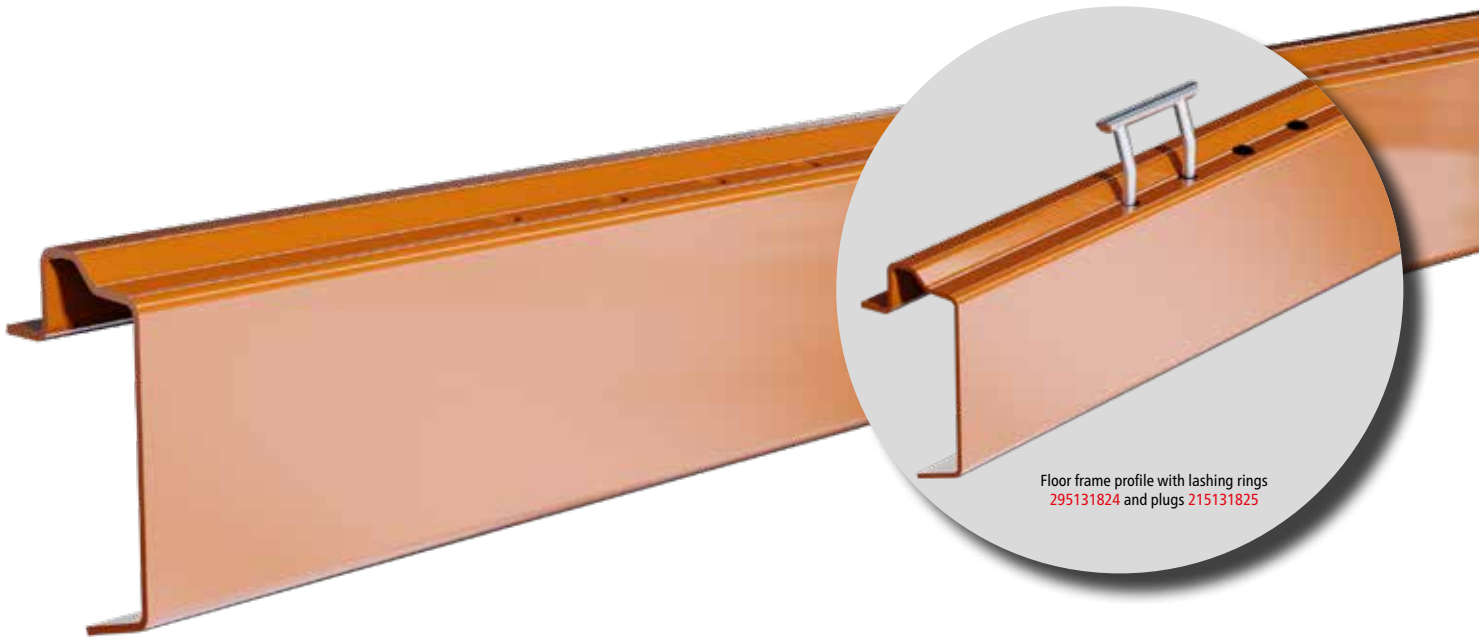
Item number	Dim. a [mm]	Dim. t [mm]	Dim. r [mm]	W _{x1} [cm ³]	W _{x2} [cm ³]	Length [mm]	Weight [kg/m]
373561255	27	3	3	30.17	71.41	6300	7.03
373561366	27	4	4	39.17	91.69	7300	9.18

Floor frame profiles - Flatbeds

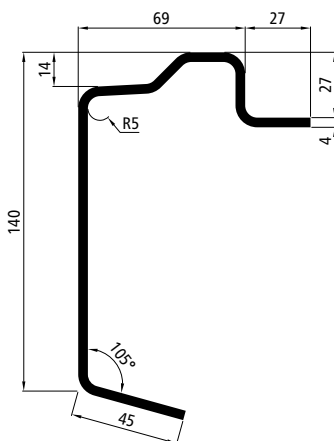
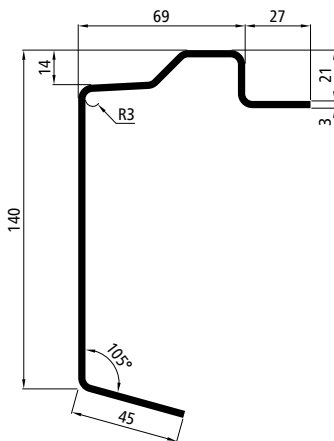
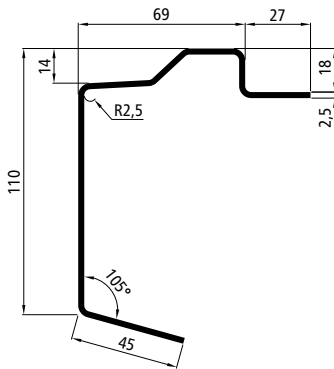
S235JRG2, cold-profiled raw steel.

Item number	Dim. a [mm]	Dim. t [mm]	Dim. r [mm]	W _{x1} [cm ³]	W _{x2} [cm ³]	Length [mm]	Weight [kg/m]
372561260	21	3	3	41.52	81.13	7300	8.45
372561256	27	3	3	41.63	81.55	7300	8.52
372561258	27	4	5	53.86	104.16	7300	11.23
372561259	30	4	5	53.93	104.36	7300	11.33
372561262	40	4	5	54.09	104.41	7300	11.65





Floor frame profile with lashing rings
295131824 and plugs 215131825



Floor frame profiles - Flatbeds

S355MC, cold-profiled.

With holes for the lashing rings 295131824 at 75 mm spacing.

Item number	W _{e1} [cm ³]	W _{e2} [cm ³]	Length [mm]	Version	Weight [kg/m]
372561440	17.21	26.15	7300	raw	4.93
373561440	17.21	26.15	7300	sandblasted + primed	4.93
372562440	17.21	26.15	7300	zinc plated	4.93

Floor frame profiles - Flatbeds

S355MC, cold-profiled.

With holes for the lashing rings 295131824 at 75 mm spacing.

Item number	W _{e1} [cm ³]	W _{e2} [cm ³]	Length [mm]	Version	Weight [kg/m]
372561436	27.40	40.71	7300	raw	6.55
373561436	27.40	40.71	7300	sandblasted + primed	6.66
372562436	27.40	40.71	7300	zinc plated	6.66

Floor frame profiles - Flatbeds

S355MC, cold-profiled.

With holes for the lashing rings 295131824 at 75 mm spacing.

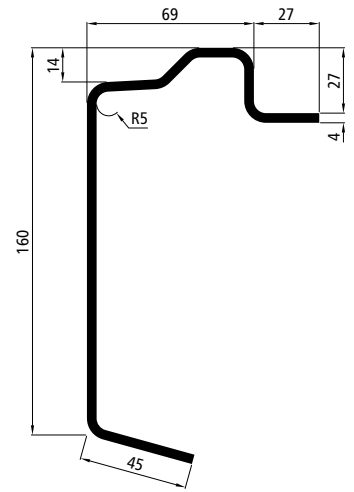
Item number	W _{e1} [cm ³]	W _{e2} [cm ³]	Length [mm]	Version	Weight [kg/m]
372561437	35.18	51.78	7300	raw	8.75
373561460	35.18	51.78	7300	sandblasted	8.75
373561437	35.18	51.78	7300	sandblasted + primed	8.90
372562437	35.18	51.78	7300	zinc plated	8.90

Floor frame profiles - Flatbeds

S355MC, cold-profiled.

With holes for the lashing rings 295131824 at 75 mm spacing.

Item number	W _{x1} [cm ²]	W _{x2} [cm ²]	Length [mm]	Version	Weight [kg/m]
372561434	42.44	61.77	7300	raw	9.38
373561479	42.44	61.77	7300	sandblasted	9.38
373561434	42.44	61.77	7300	sandblasted + primed	9.55
372562434	42.44	61.77	7300	zinc plated	9.55

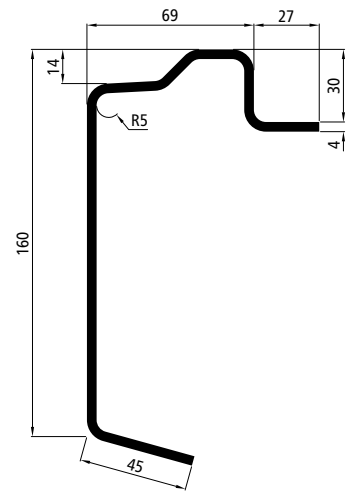
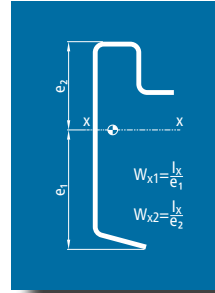


Floor frame profiles - Flatbeds

S355MC, cold-profiled.

With holes for the lashing rings 295131824 at 75 mm spacing.

Item number	W _{x1} [cm ²]	W _{x2} [cm ²]	Length [mm]	Version	Weight [kg/m]
372561435	42.36	61.84	7300	raw	9.47
373561435	42.36	61.84	7300	sandblasted + primed	9.64

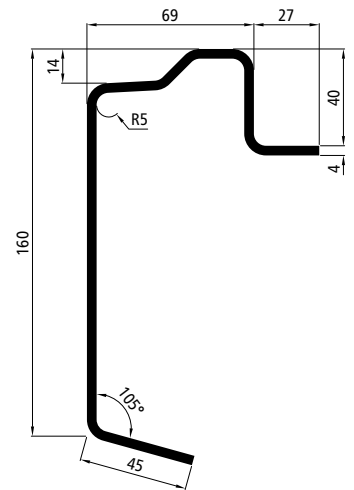


Floor frame profiles - Flatbeds

S355MC, cold-profiled.

With holes for the lashing rings 295131824 at 75 mm spacing.

Item number	W _{x1} [cm ²]	W _{x2} [cm ²]	Length [mm]	Version	Weight [kg/m]
372561439	42.06	61.73	7300	raw	9.79
373561439	42.06	61.73	7300	sandblasted	9.79



Floor frame plug

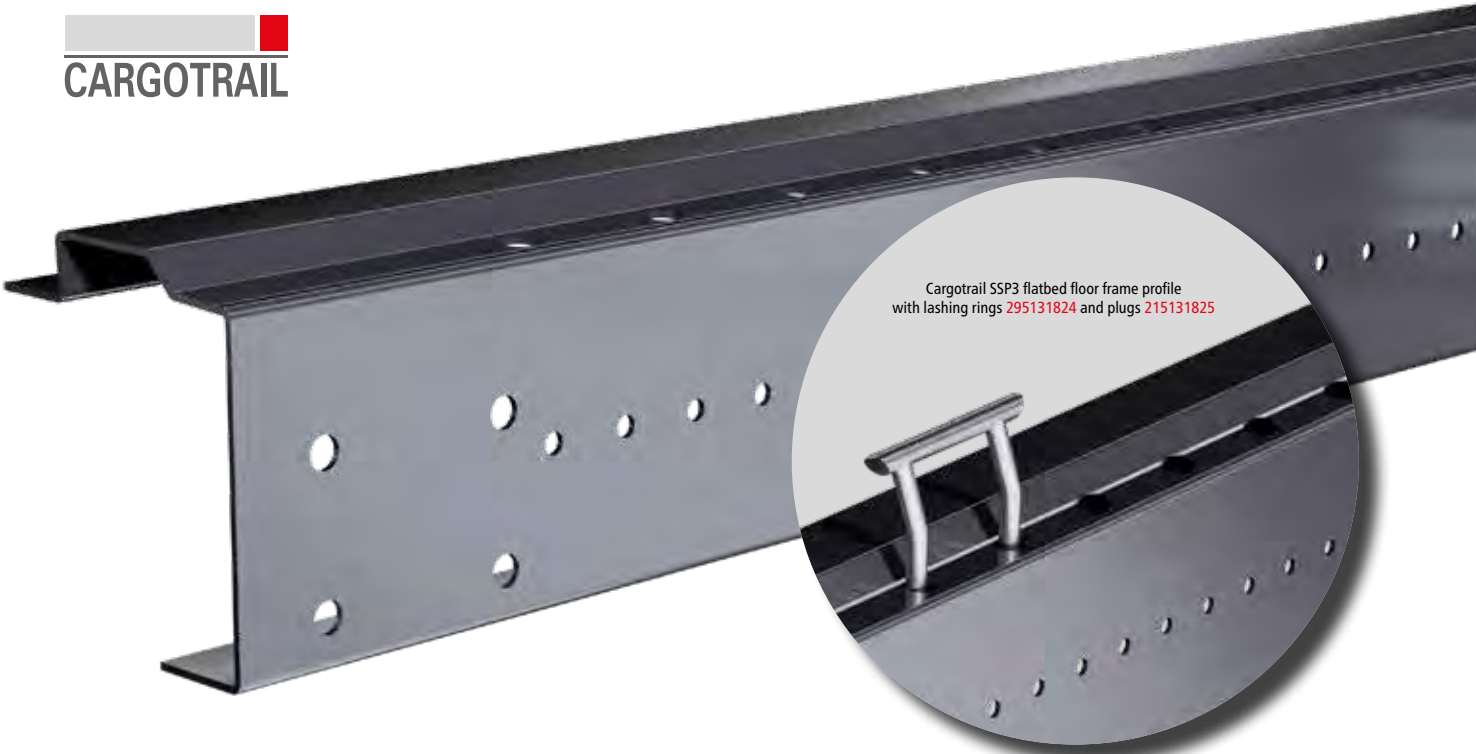
Black plastic.

For sealing open holes.

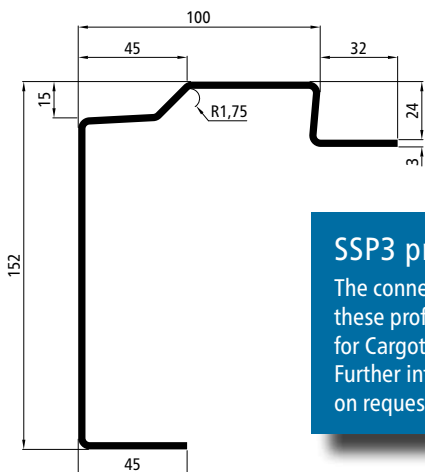
Item number	Packaging unit
215131825	1 pcs.
605646839	160 pcs.



CARGOTRAIL



Cargotrail SSP3 flatbed floor frame profile with lashing rings 295131824 and plugs 215131825



SSP3 profiles

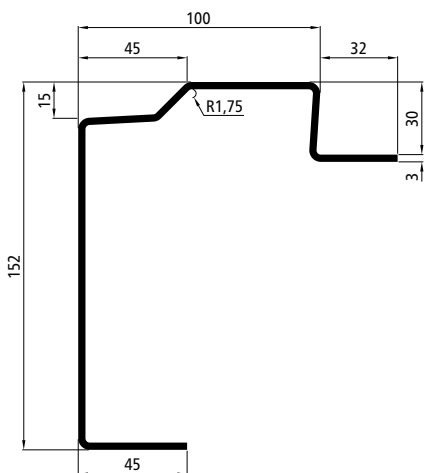
The connection dimensions of these profiles make them suitable for Cargotrail SSP3 steel flatbeds. Further information is available on request.

Floor frame profiles - SSP3 flatbeds

S355MC, cold-profiled.

With holes for the lashing rings 295131824 at 75 mm spacing. Additional hole pattern for installing side wall hinges.

Item number	W _{e1} [cm ³]	W _{e2} [cm ³]	Length [mm]	Version	Weight [kg/m]
605646800	39.52	63.69	7200	zinc plated	7.91



Floor frame profiles - SSP3 flatbeds

S355MC, cold-profiled.

With holes for the lashing rings 295131824 at 75 mm spacing. Additional hole pattern for installing side wall hinges.

Item number	W _{e1} [cm ³]	W _{e2} [cm ³]	Length [mm]	Version	Weight [kg/m]
605646801	39.42	63.47	7200	zinc plated	7.94

Floor frame plug

Black plastic.
For sealing open holes.

Item number	Packaging unit
215131825	1 pcs.
605646839	160 pcs.





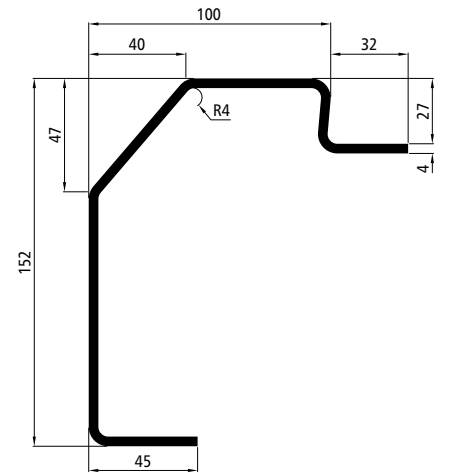
CARGOTRAIL



Floor frame profile - Construction material flatbeds

Pos. 1, S355MC, cold-profiled.
 With hole pattern/lashing points at 250 mm spacing for diagonal and vertical securing of lashed goods. Tested according to DIN EN with a load capacity of 2000 daN per lashing point.

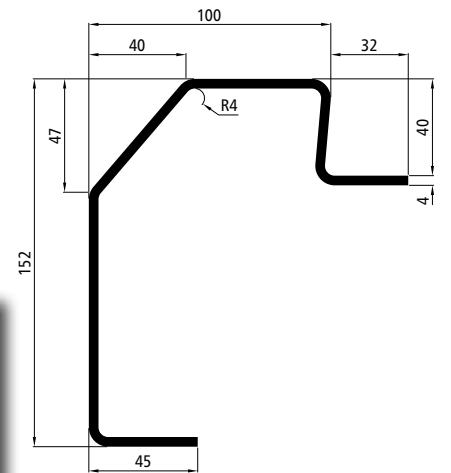
Item number	W ₁ [cm ²]	W ₂ [cm ²]	Length [mm]	Version	Weight [kg/m]
372561810	53,40	82,34	7500	raw	9.75
373561810	53,40	82,34	7500	sandblasted + primed	9.75



Floor frame profile - Construction material flatbeds

Pos. 1, S355MC, cold-profiled.
 With hole pattern/lashing points at 250 mm spacing for diagonal and vertical securing of lashed goods. Tested according to DIN EN with a load capacity of 2000 daN per lashing point.

Item number	W ₁ [cm ²]	W ₂ [cm ²]	Length [mm]	Version	Weight [kg/m]
372561820	51,41	77,32	6850	raw	10.83

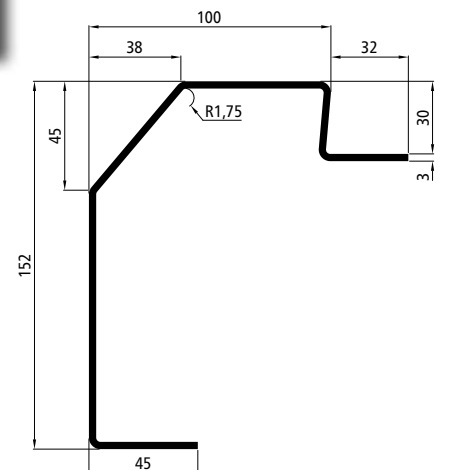


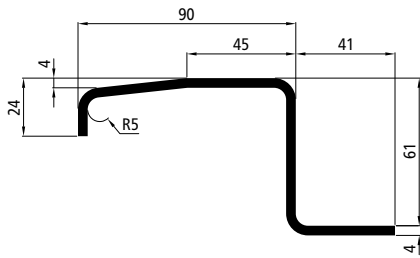
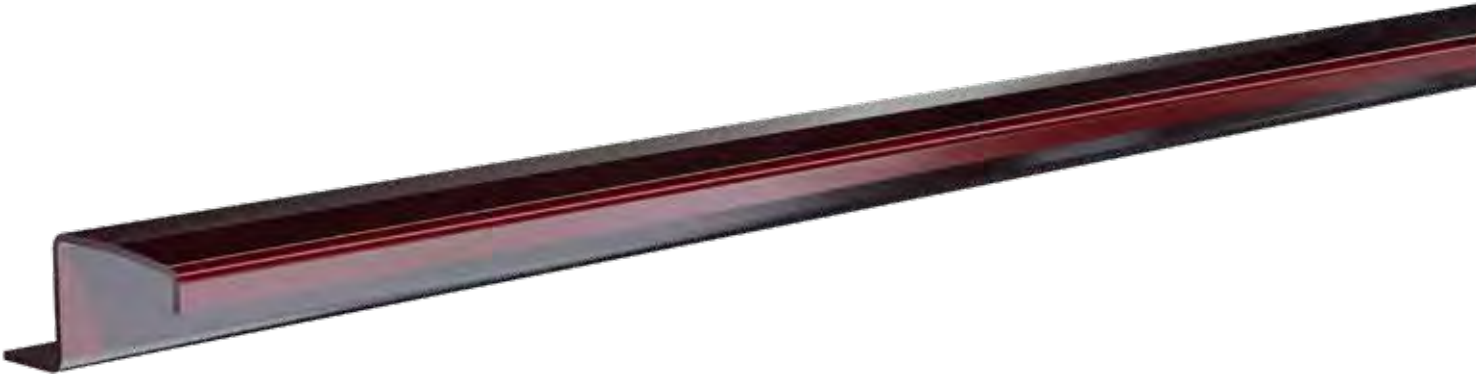
SSP3 profiles
 The connection dimensions of these profiles make them suitable for Cargotrail SSP3 steel flatbeds. Further information is available on request.

Floor frame profile - SSP3 construction material flatbeds

Pos. 2, S355MC, cold-profiled.
 With hole pattern/lashing points at 250 mm spacing for diagonal and vertical securing of lashed goods. Tested according to DIN EN with a load capacity of 2000 daN per lashing point.
 Additional hole pattern for installing side wall hinges.

Item number	W ₁ [cm ²]	W ₂ [cm ²]	Length [mm]	Version	Weight [kg/m]
605646802	40.15	61.41	7200	zinc plated	7.55
605646855	40.15	61.41	7500	raw	7.55

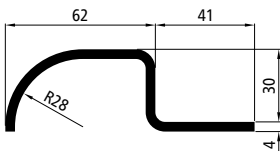
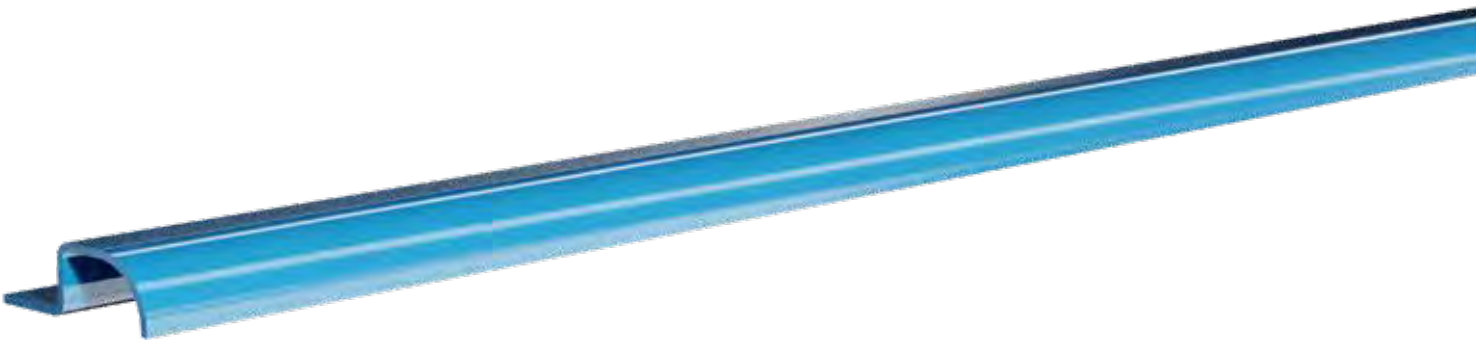




Floor frame profile - Tipping body

S235JRG2, cold-profiled raw steel.

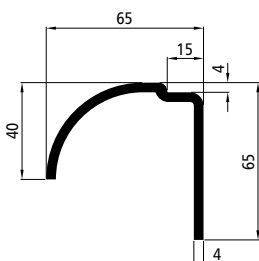
Item number	W _{e1} [cm ²]	W _{e2} [cm ²]	Length [mm]	Weight [kg/m]
372561030	34.02	53.73	6000	6.34



Floor frame profile - Tipping body

S235JRG2, cold-profiled raw steel.

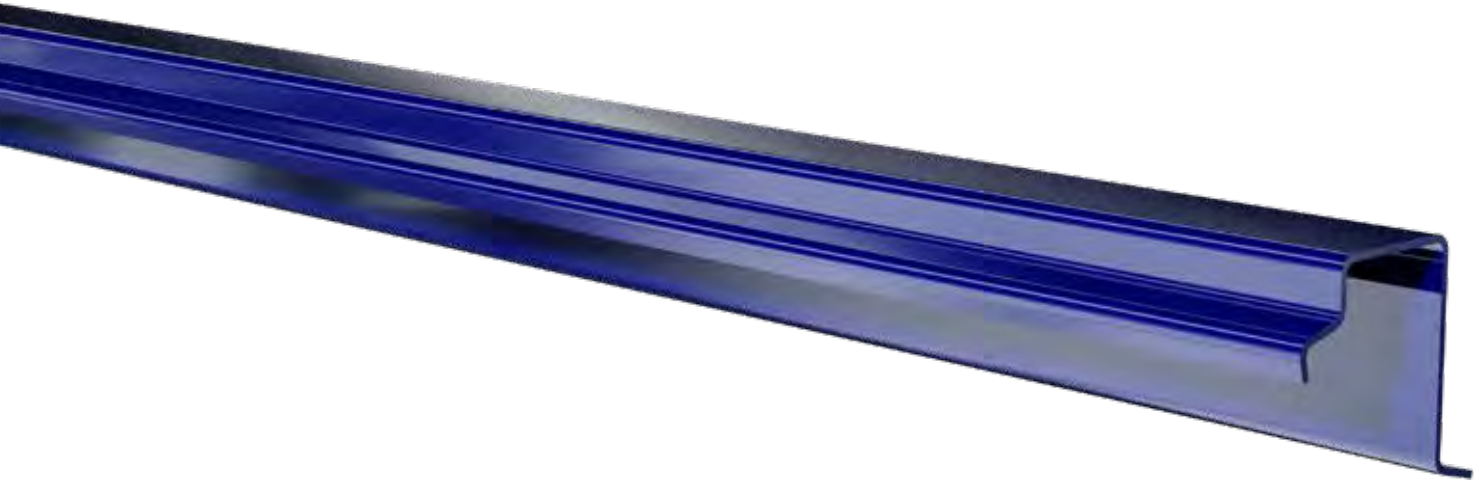
Item number	W _{e1} [cm ²]	W _{e2} [cm ²]	Length [mm]	Weight [kg/m]
372561026	31.91	30.33	6000	4.40



Floor frame profile - Tipping body

S235JRG2, cold-profiled raw steel.

Item number	W _{e1} [cm ²]	W _{e2} [cm ²]	Length [mm]	Weight [kg/m]
372561031	7.83	15.31	6000	4.38

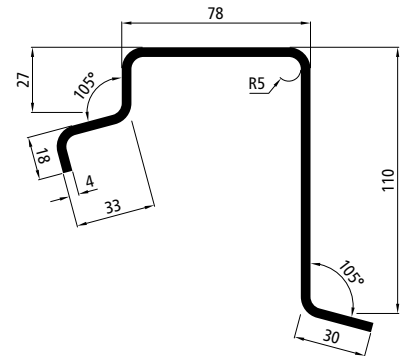


Floor frame profile - Tipping body

QSTE380TM, cold-profiled raw steel.

Together with the side board hinge H 956 and central locking device H 955 S, this floor frame profile makes an ideal combination for tipping bodies with 40 mm aluminium side boards.

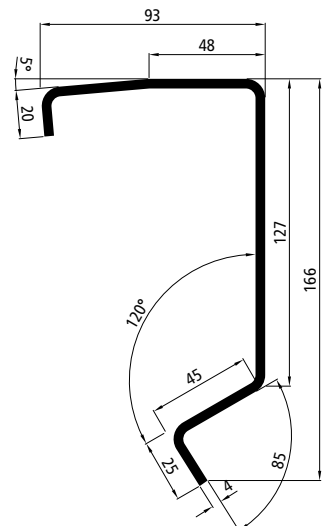
Item number	W _{x1} [cm ³]	W _{x2} [cm ³]	Length [mm]	Weight [kg/m]
372561382	30.00	56.74	6300	8.29

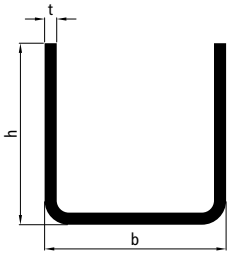


Floor frame profile - Tipping body

S235JRG2, cold-profiled raw steel.

Item number	W _{x1} [cm ³]	W _{x2} [cm ³]	Length [mm]	Weight [kg/m]
372561120	25.51	45.01	6000	9.10

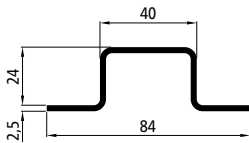




U-side board profiles

DX51D, zinc plated steel.

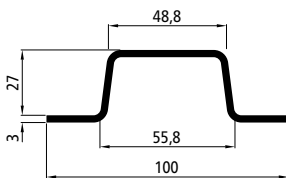
Item number	Dim. b [mm]	Dim. h [mm]	Dim. t [mm]	Length [mm]	Weight [kg/m]
372561141	18.5	20	1.5	6000	0.67
372561140	21.5	20	1.5	6000	0.70
372561087	23	23	1.5	6000	0.78
372561061	25	25	1.5	6000	0.85
372561060	28	28	1.5	6000	0.95
372561106	30	30	2.0	6000	1.35
372561088	31	28	1.5	6000	1.01



Top hat profile

Pos. 1, S235JR, raw steel.

Item number	Length [mm]	Version	Weight [kg/m]
372561033	6000	raw	2.46
372561134	6000	zinc plated	2.46



Top hat profile

Pos. 2, S235JR, zinc plated steel.

Item number	Length [mm]	Weight [kg/m]
372561135	6000	3.02

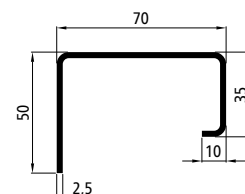




Base board profile

S235JRH, raw steel.

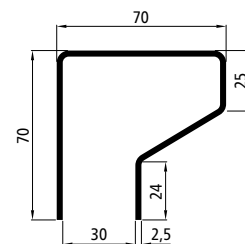
Item number	Length [mm]	Weight [kg/m]
372561044	6000	3.00



Base board profile

S235JRG2, raw steel.

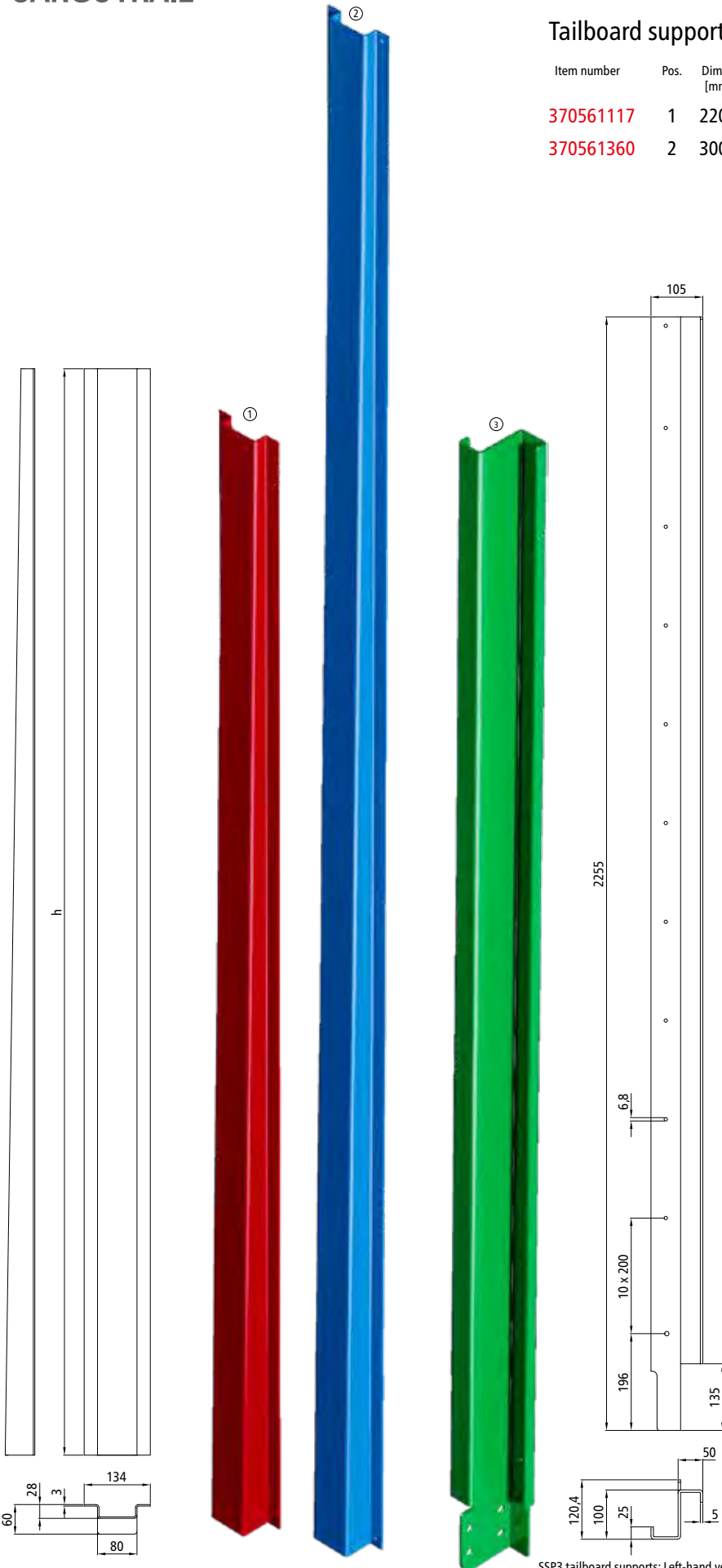
Item number	Length [mm]	Weight [kg/m]
372561047	6000	4.40



CARGOTRAIL

Tailboard supports

Item number	Pos.	Dim. h [mm]	Quality	Version	Weight [kg]
370561117	1	2200	S235JRG2	raw	11
370561360	2	3000	QStE380TM	black KTL-coated	15



SSP3 tailboard supports

Pos. 3, S420MC, zinc plated steel, weight 20.18 kg.

Item number Version

605646807 left

605646808 right

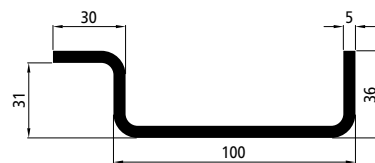
SSP3 profiles
 The connection dimensions of these profiles make them suitable for Cargotrail SSP3 steel flatbeds. Further information is available on request.

SSP3 tailboard supports: Left-hand version.

Corner pillar profile

Pos. 1, S235JRG2, raw steel.

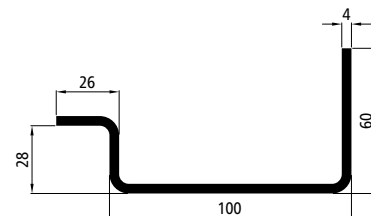
Item number	W _{x1} [cm ²]	W _{x2} [cm ²]	W _{y1} [cm ²]	W _{y2} [cm ²]	Length [mm]	Weight [kg/m]
372562094	114.43	61.87	1.80	2.09	5000	6.87



Corner pillar profile

Pos. 2, S235JRG2, raw steel.

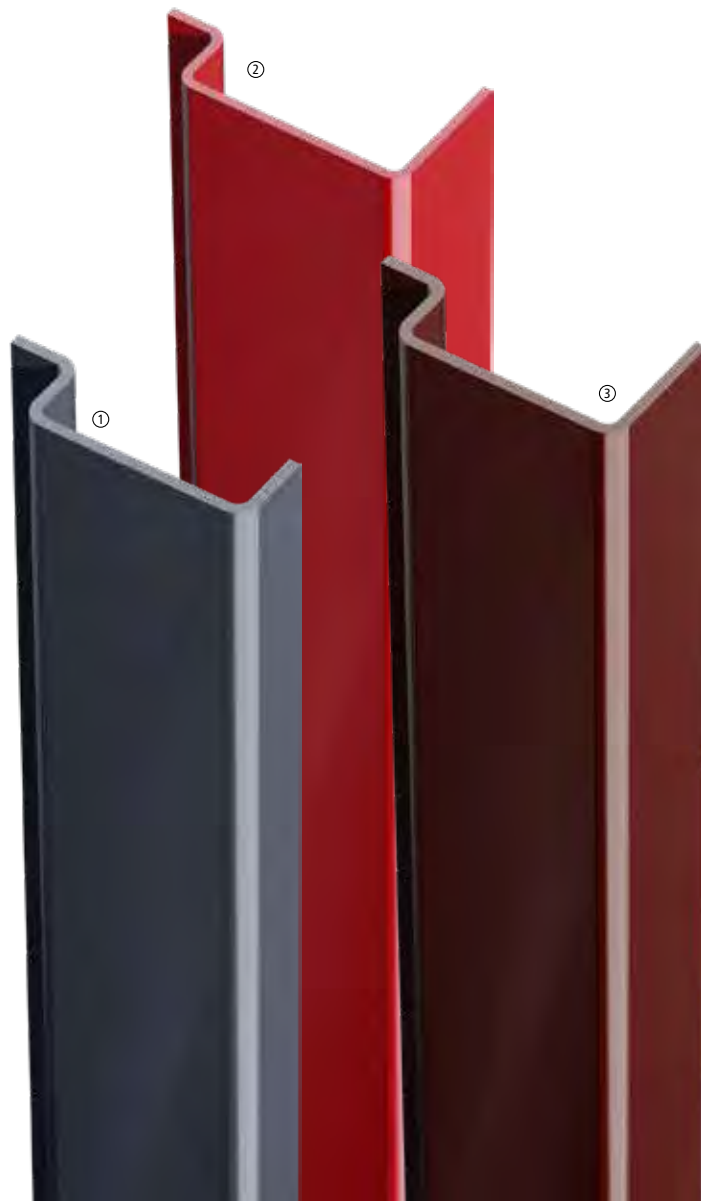
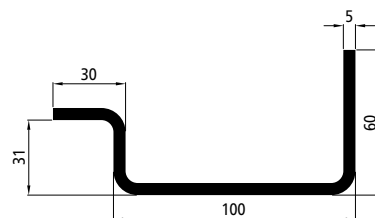
Item number	W _{x1} [cm ²]	W _{x2} [cm ²]	W _{y1} [cm ²]	W _{y2} [cm ²]	Length [mm]	Weight [kg/m]
372562042	87.72	30.62	2.80	4.13	5000	6.27

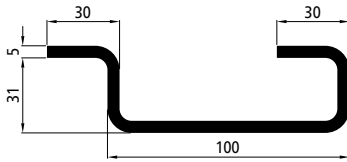


Corner pillar profile

Pos. 3, S235JRG2, steel.

Item number	W _{x1} [cm ²]	W _{x2} [cm ²]	W _{y1} [cm ²]	W _{y2} [cm ²]	Length [mm]	Version	Weight [kg/m]
372562095	104.12	40.75	3.69	5.30	5000	raw	7.96
373562095	104.12	40.75	3.69	5.30	5000	sandblasted + primed	7.96

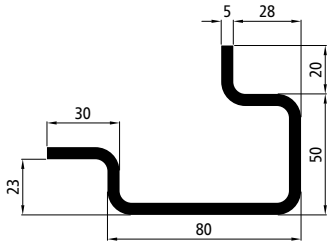




Corner pillar profile

Pos. 1, S235JRG2, raw steel.

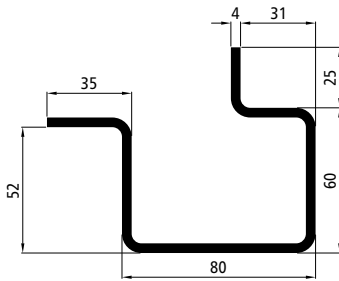
Item number	W_{x1} [cm ³]	W_{x2} [cm ³]	W_{y1} [cm ³]	W_{y2} [cm ³]	Length [mm]	Weight [kg/m]
372562177	105.56	74.19	2.44	3.23	5000	7.80



Corner pillar profile

Pos. 2, S235JRG2, raw steel.

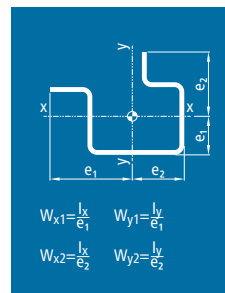
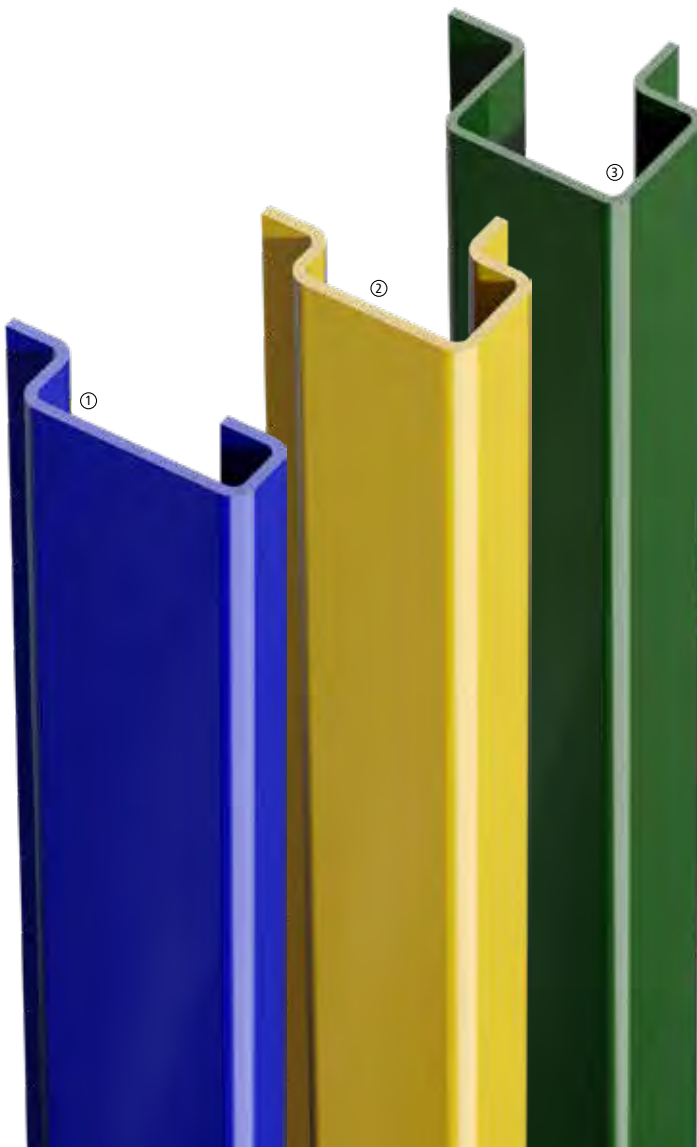
Item number	W_{x1} [cm ³]	W_{x2} [cm ³]	W_{y1} [cm ³]	W_{y2} [cm ³]	Length [mm]	Weight [kg/m]
372562038	46.69	21.91	5.68	9.70	5000	8.24



Corner pillar profile

Pos. 3, S235JRG2, raw steel.

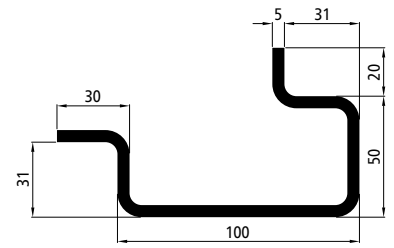
Item number	W_{x1} [cm ³]	W_{x2} [cm ³]	W_{y1} [cm ³]	W_{y2} [cm ³]	Length [mm]	Weight [kg/m]
372562139	36.94	22.13	9.67	15.29	5000	8.32



Corner pillar profile

Pos. 1, S235JRG2, raw steel.

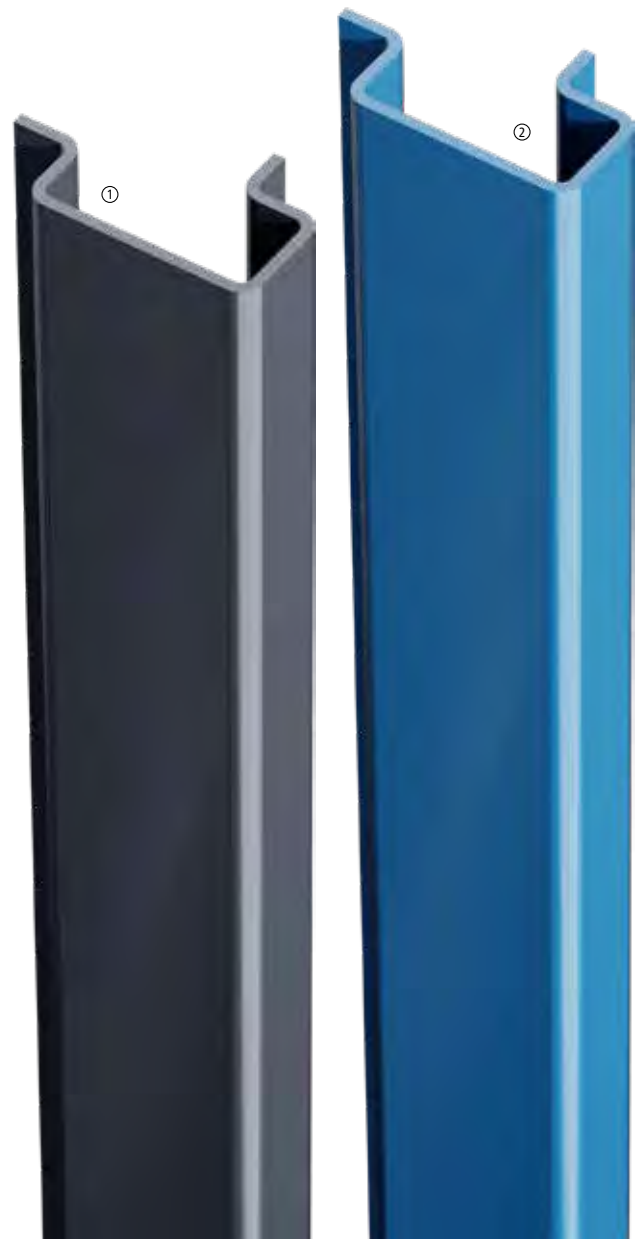
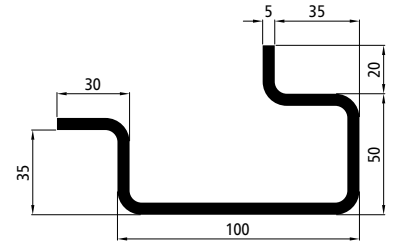
Item number	W_{x1} [cm ³]	W_{x2} [cm ³]	W_{y1} [cm ³]	W_{y2} [cm ³]	Length [mm]	Weight [kg/m]
372562039	79.01	37.35	6.18	9.62	5000	9.28
372569039	79.01	37.35	6.18	9.62	6000	9.28

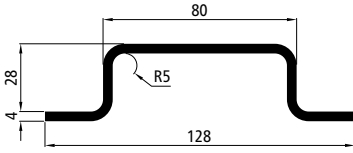


Corner pillar profile

Pos. 2, S235JRG2, raw steel.

Item number	W_{x1} [cm ³]	W_{x2} [cm ³]	W_{y1} [cm ³]	W_{y2} [cm ³]	Length [mm]	Weight [kg/m]
372562040	78.61	38.66	6.55	9.92	5000	9.60

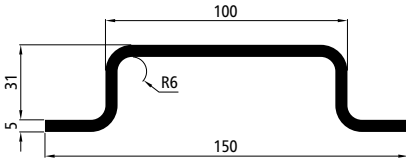




Centre pillar profile

Pos. 1, S235JRG2.

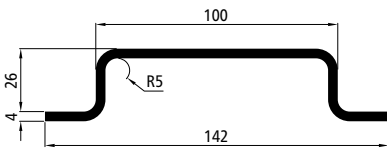
Item number	W _{x1} [cm ²]	W _{x2} [cm ²]	Length [mm]	Version	Weight [kg/m]
372562035	53.10	67.88	5000	raw	5.47
372562135	53.10	67.88	5000	hot-dip galvanised	5.47



Centre pillar profile

Pos. 2, S235JRG2.

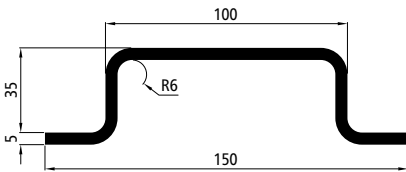
Item number	W _{x1} [cm ²]	W _{x2} [cm ²]	Length [mm]	Version	Weight [kg/m]
372562036	91.85	130.67	5000	raw	7.80
373562036	91.85	130.67	5000	sandblasted + primed	7.80
372562136	91.85	130.67	5000	hot-dip galvanised	7.80



Centre pillar profile

Pos. 3, S235JRG2, raw steel.

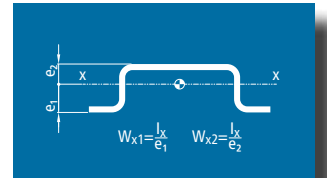
Item number	W _{x1} [cm ²]	W _{x2} [cm ²]	Length [mm]	Weight [kg/m]
372562137	71.25	115.78	5000	5.76



Centre pillar profile

Pos. 4, S235JRG2, raw steel.

Item number	W _{x1} [cm ²]	W _{x2} [cm ²]	Length [mm]	Weight [kg/m]
372562037	86.81	122.47	5000	8.08

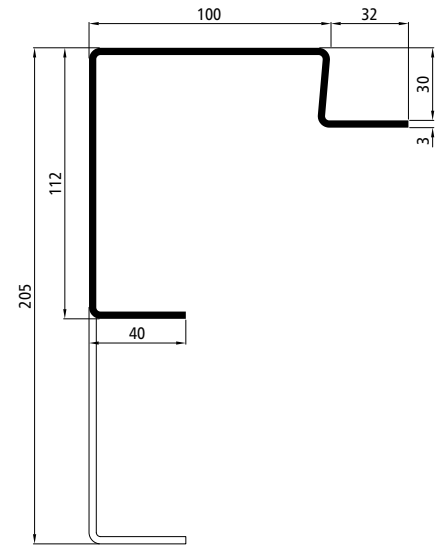




End floor frame, front/rear, SSP3

For floor frame width 2480 mm, weight 31.69 kg.

Item number	Version
372646803	raw
605646803	zinc plated



Pillar body - headboard/tailboard corner pillars

Pos. 1, rectangular tube 120×60×3 mm. Depending on the riveting of the stop bracket (Pos. 3) on the side of the pillar of body, a left-hand or right-hand head-/tailboard corner pillar will be required.

Intended for the installation of a K20 front corner pillar.

Item number	Height [mm]	Version	Weight [kg]
372646814	1155	raw	8.98
605646814	1155	zinc plated	9.08
372646812	2205	raw	17.45
605646812	2205	zinc plated	17.57

Reinforcing profile

Pos. 2. The reinforcing profile is inserted into, and reinforces, the pillar body.

Item number	Version	Weight [kg]
372646816	raw	1.89
605646816	zinc plated	1.92

SSP3 profiles
The connection dimensions of these profiles make them suitable for Cargotrail SSP3 steel flatbeds. Further information is available on request.

Stop bracket

Pos. 3, angle profile 30×30×3 mm.

Item number	Height [mm]	Version	Weight [kg]
372646815	950	raw	1.20
605646815	950	zinc plated	1.24
372646813	2000	raw	2.55
605646813	2000	zinc plated	2.61

Cover cap

Not shown, suitable for pillar bodies, black PE.

605201018



Grating

2 mm steel, length 3000 mm.

Item number	Tread width [mm]	Tread height [mm]	Version	Weight [kg/m]
370561361	190	40	hot-dip galvanised	5.00
370561743	250	40	raw	5.90
370561362	250	40	hot-dip galvanised	5.90
370561740	310	40	raw	6.90
370561363	310	40	hot-dip galvanised	6.90
370561364	370	40	hot-dip galvanised	7.90
370561737	430	40	raw	8.90
370561365	430	40	hot-dip galvanised	8.90





BRIDGE FIXTURES



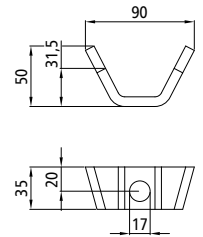
WELD-ON LUGS	224
BOLT-ON LUGS	225
THRUST PLATE, RUBBER STOP	232
SUBSTRUCTURE BRACKETS	233

View of a Suer HGV subframe.
The SSP3 structure with its original hot-galvanised, but otherwise untreated substructure has been in daily use for years.

Weld-on lug 653

Raw steel, weight 0.24 kg.

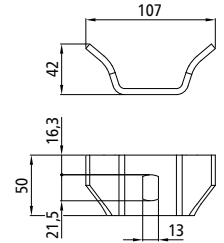
125141394



Weld-on lug - Size 1

Raw steel, weight 0.24 kg.

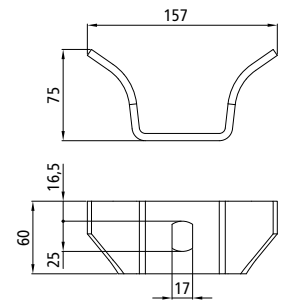
125141102



Weld-on lug - Size 2

Raw steel, weight 0.55 kg.

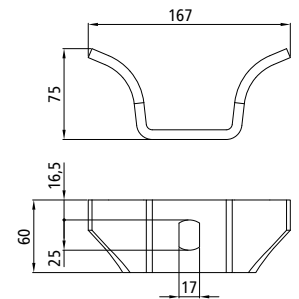
125141103



Weld-on lug - Size 3

Raw steel, weight 0.75 kg.

125141200

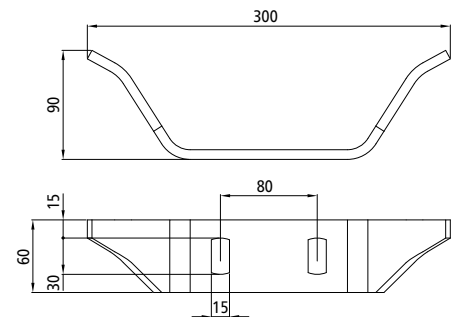
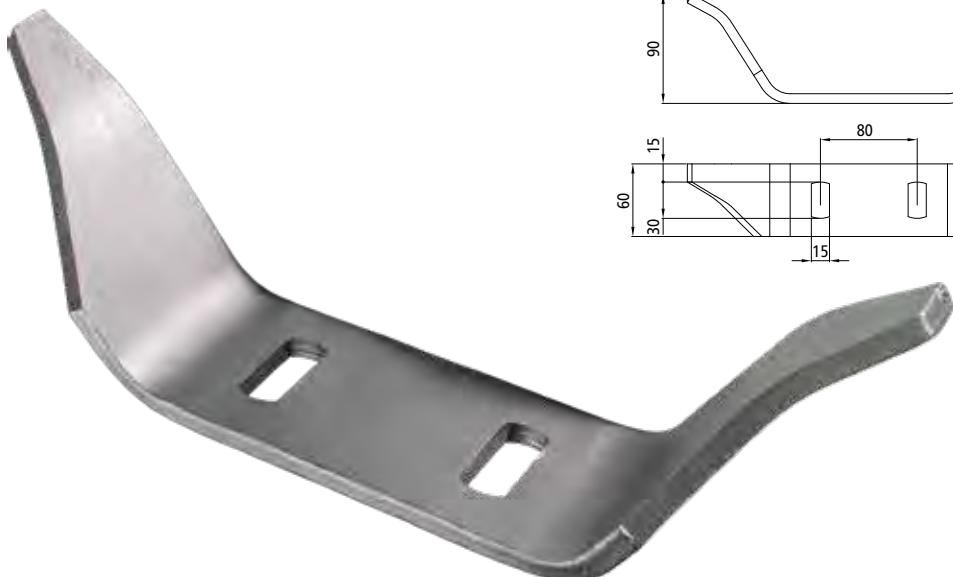


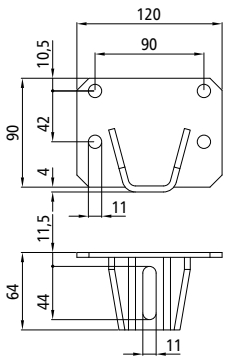
Weld-on lug - Size 4

Raw steel, weight 1.10 kg.

Compatible with MAN.

125141314

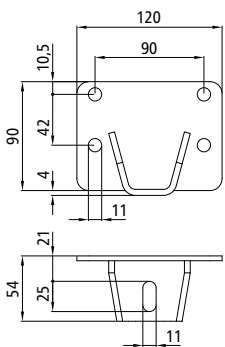




Bolt-on lug

Steel, black KTL-coated, weight 0.56 kg.
Accessory from our Cargotrail ASP1 flatbed kit, approved for chassis up to 4.6 t perm. GM.

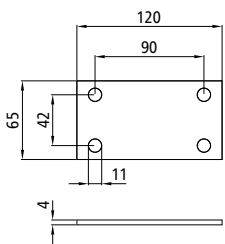
624643040



Bolt-on lug

Steel, black KTL-coated, weight 0.55 kg.
Accessory from our Cargotrail ASP1 flatbed kit, approved for chassis up to 7.5 t perm. GM.

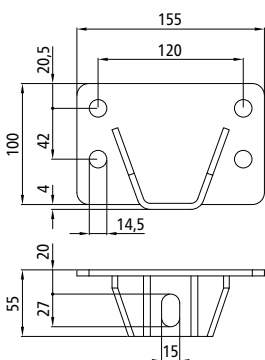
605645033



Counterplate

Steel, black KTL-coated, weight 0.23 kg.
Required to mount bolt-on lug **624643040** or **605645033** onto an aluminium subframe.

605645023



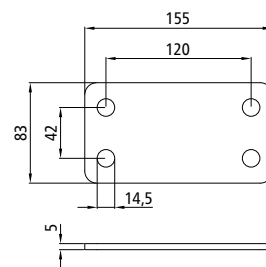
Bolt-on lug

Steel, black KTL-coated, weight 0.87 kg.
Accessory from our Cargotrail ASP1 flatbed kit, approved for chassis up to 12 t perm. GM.

605645052

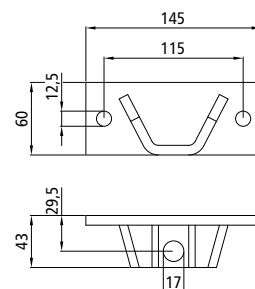
Counterplate

Steel, black KTL-coated,
weight 0.48 kg.
Required to mount bolt-on lug
605645052 onto an aluminium
subframe.
605645053



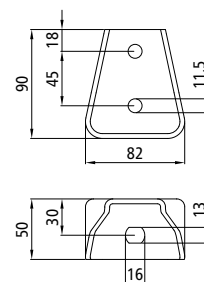
Bolt-on lug 650

Hot-galvanised steel,
weight 0.79 kg.
125141391



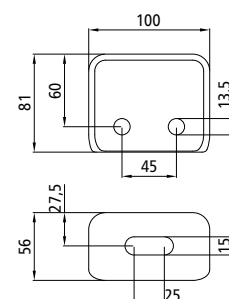
PWP bolt-on lug

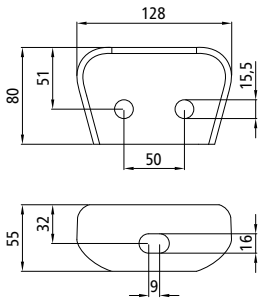
Hot-galvanised steel,
weight 0.37 kg.
105141561



Bolt-on lug

Hot-galvanised steel,
weight 0.56 kg.
108071567





Bolt-on lug

Raw steel, weight 0.61 kg.
Designed for MB Actros.

125141585



Bolt-on lug

Steel, black KTL-coated,
weight 0.61 kg.

Designed for MB Actros.

125141586

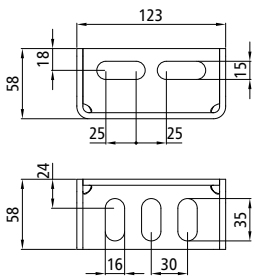


Bolt-on lug

Hot-galvanised steel,
weight 0.61 kg.

Designed for MB Actros.

215141626

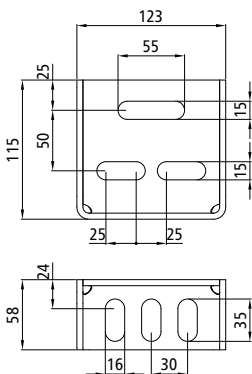


Bolt-on lug

Hot-galvanised steel,
weight 0.57 kg.

Accessory from our Cargotrail
SSP3 flatbed kit.

605646864



Bolt-on lug

Hot-galvanised steel,
weight 0.95 kg.

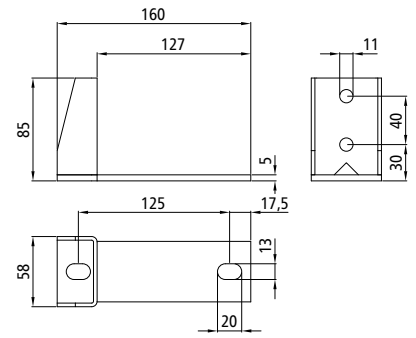
Accessory from our Cargotrail
SSP3 flatbed kit.

605646824

**PWP bolt-on lug,
universal**

Hot-galvanised steel,
weight 0.59 kg.

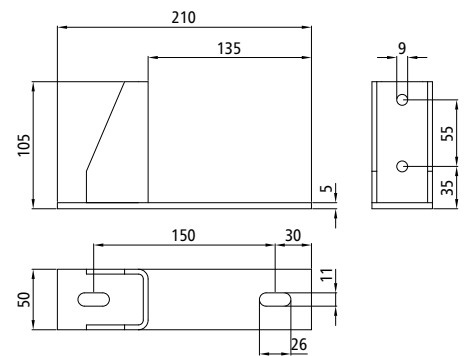
105141757



**PWP bolt-on lug,
universal**

Hot-galvanised steel,
weight 0.80 kg.

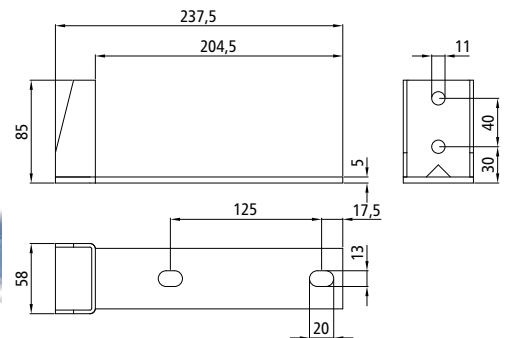
105141890

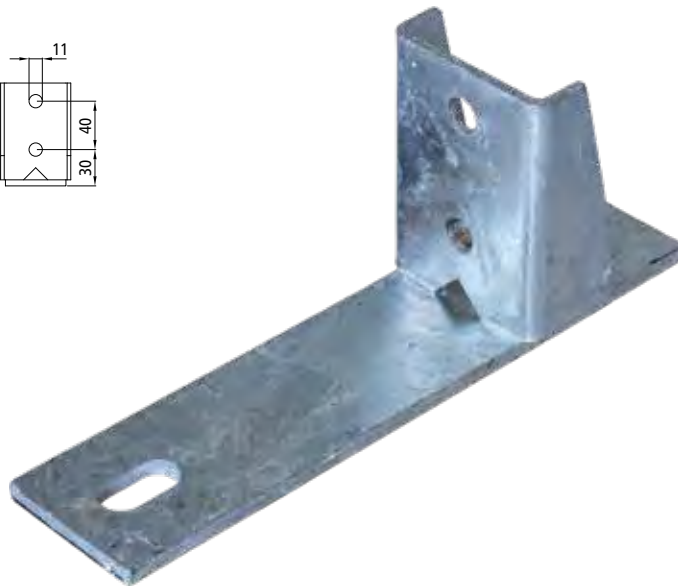
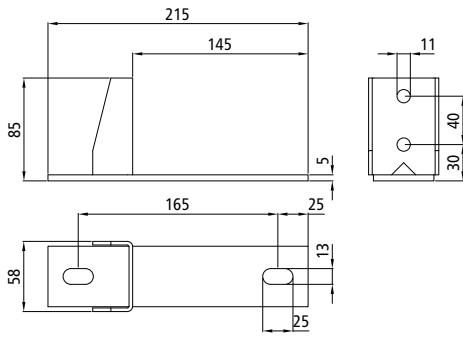


**PWP bolt-on lug,
universal**

Hot-galvanised steel,
weight 0.66 kg.

105141758

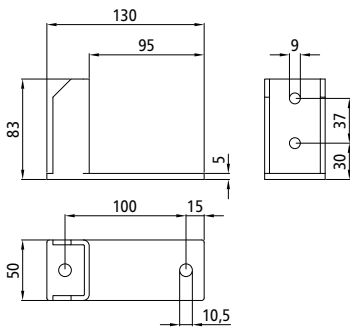




PWP bolt-on lug

Hot-galvanised steel,
weight 0.59 kg.
Suitable for Fiat Ducato.

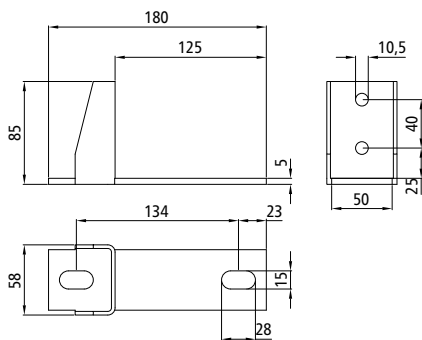
105141780



PWP bolt-on lug

Hot-galvanised steel,
weight 0.49 kg.
Suitable for Ford Transit.

105141756



PWP bolt-on lug

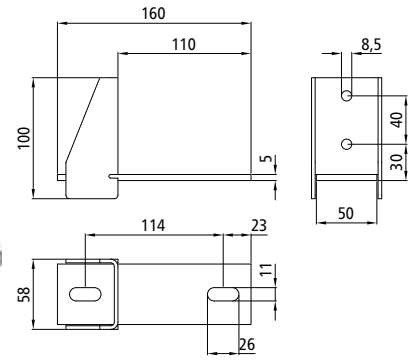
Hot-galvanised steel,
weight 0.54 kg.
Suitable for MB Sprinter
412/414.

105141715

PWP bolt-on lug

Hot-galvanised steel,
weight 0.54 kg.
Suitable for MB Sprinter
308/309/310/409/410 and
VW LT.

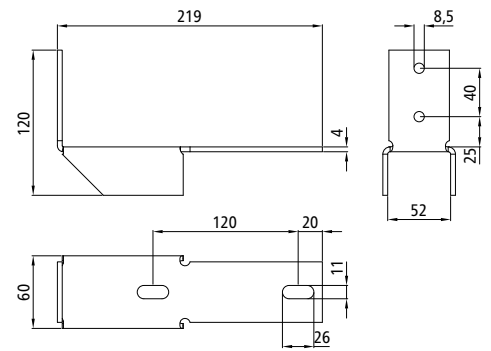
105141475



PWP bolt-on lug

Hot-galvanised steel,
weight 0.65 kg.
Suitable for MB Sprinter
412/414.

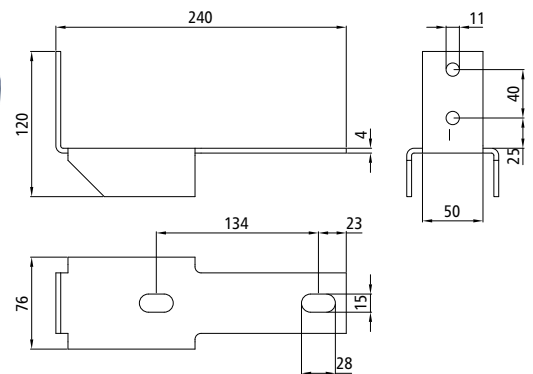
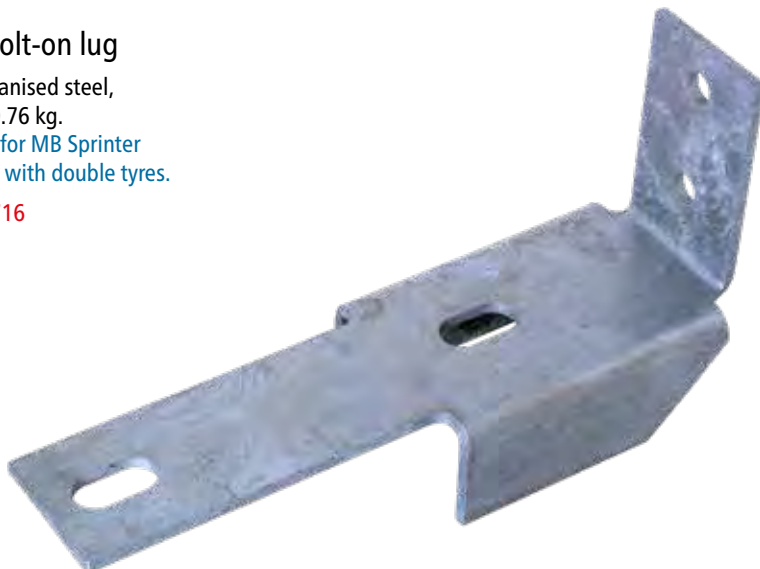
105141476

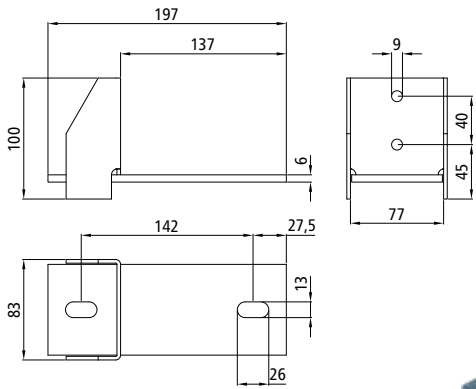


PWP bolt-on lug

Hot-galvanised steel,
weight 0.76 kg.
Suitable for MB Sprinter
412/414 with double tyres.

105141716

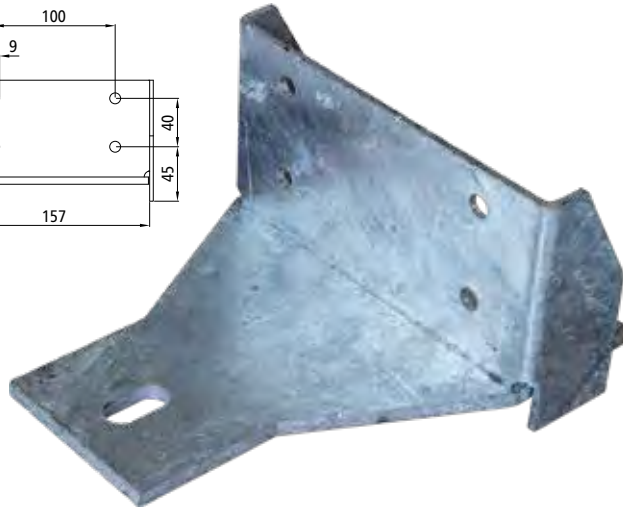
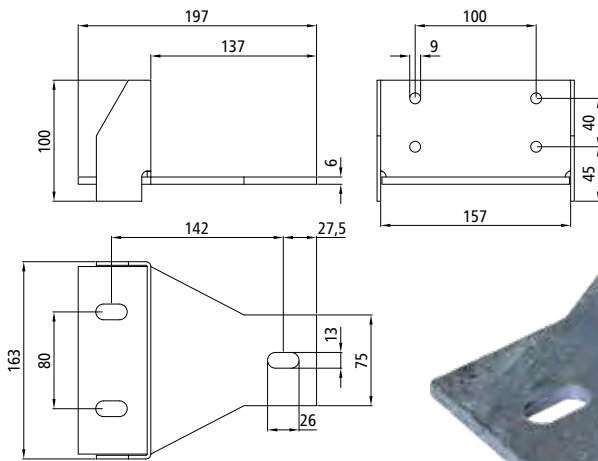




PWP bolt-on lug

Hot-galvanised steel,
weight 0.98 kg.
Suitable for VW Crafter/
MAN TGE.

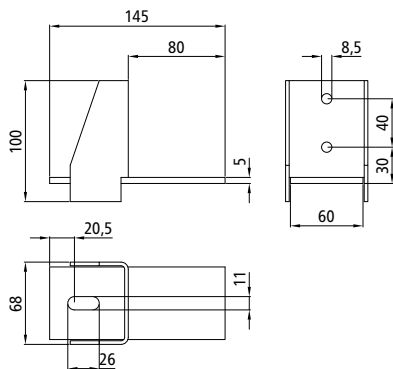
105141759



PWP bolt-on lug

Hot-galvanised steel,
weight 1.48 kg.
Suitable for VW Crafter/
MAN TGE.

105141760



PWP bolt-on lug

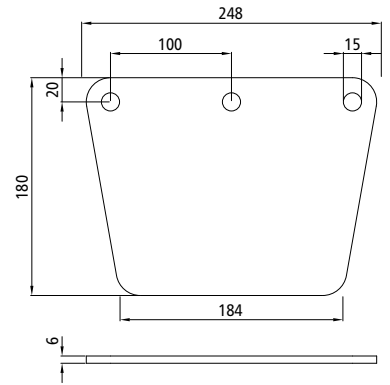
Hot-galvanised steel,
weight 0.64 kg.
Suitable for VW T5.

105141900

Thrust plate

Hot-galvanised steel,
weight 1.83 kg.
Accessory from our Cargotrail
SSP3 flatbed kit.

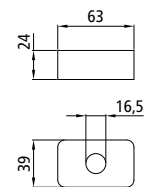
605646039



PWP rubber stop

Weight 0.06 kg.

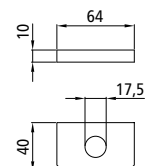
105141588

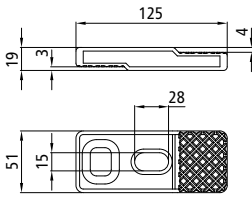


PWP support disk

Hot-galvanised steel,
weight 0.17 kg.
Shim for rubber stop.

105141604

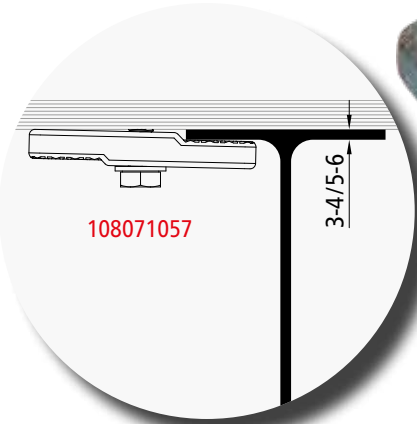




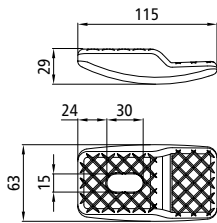
Substructure bracket

Hot-galvanised steel,
weight 0.64 kg.
For light substructures, clamping
range 3-6 mm.

108071057



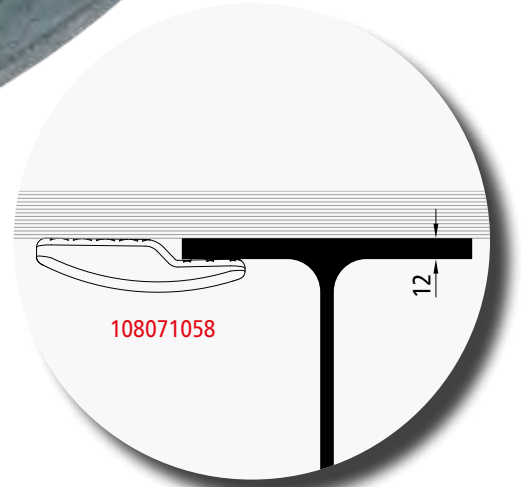
108071057



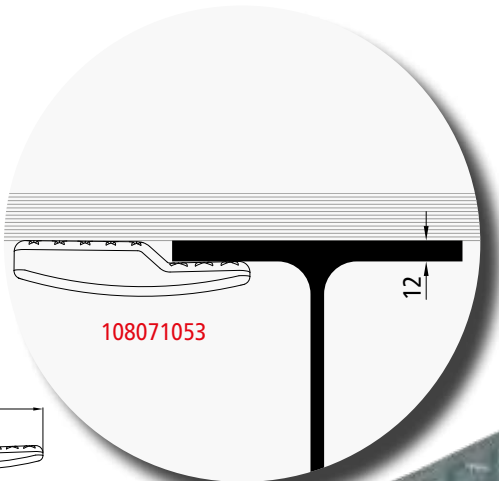
Substructure bracket

Hot-galvanised steel,
weight 0.64 kg.
For medium-weight
substructures, clamping
range 12 mm.

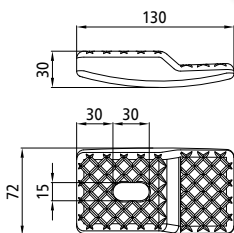
108071058



108071058



108071053



Substructure bracket

Hot-galvanised steel,
weight 0.92 kg.
For heavy-duty substructures,
clamping range 12 mm.

108071053

TARPAULIN/COVER FRAME ACCESSORIES



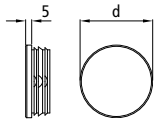
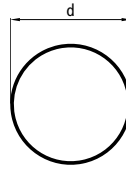


TARPAULIN TUBES	236
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Tarpaulin tube

Zinc plated steel.

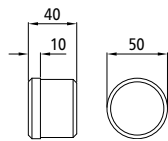
Item number	Dim. d [mm]	Length [mm]	Weight [kg]
320561385	35×1.5	6200	7.68
320561630	50×1.5	6300	11.30
320561730	50×1.5	7300	13.10
320562630	60×1.2	6300	10.96
320562730	60×1.2	7300	12.70



End stop for tarpaulin tube

Black polypropylene.

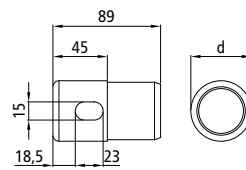
Item number	Dim. d [mm]	Weight [kg]
320131714	35	0.006
320131715	50	0.007
320131716	60	0.008



End stop for tarpaulin tube 50×1.5 mm

Black PUR, weight 0.03 kg.

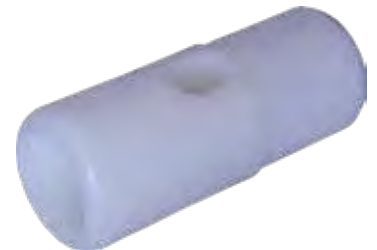
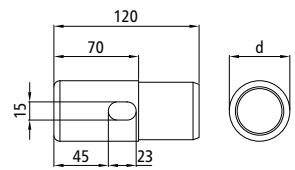
320131535



End stop with elongated hole

Short type, black PVC.

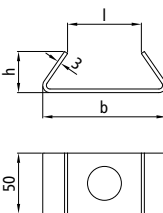
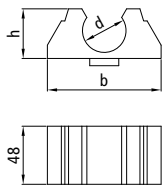
Item number	Dim. d [mm]	Weight [kg]
320131352	50	0.007
320131353	60	0.009



End stop with elongated hole

Long type, white PVC.

Item number	Dim. d [mm]	Weight [kg]
320131274	50	0.009
320131275	60	0.011

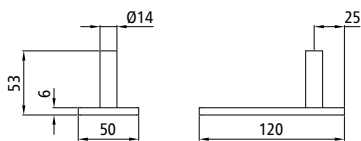


Rubber clips for tarpaulin tubes

Item number	For tarpaulin tube Ø/Dim. d [mm]	Dim. h [mm]	Dim. b [mm]	Weight [kg]
320131520	35	40	93	0.13
320131522	50	52	119	0.19

Metal stiffener for rubber clip

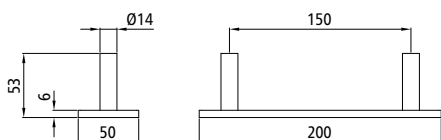
Item number	For rubber clip	Dim. h [mm]	Dim. b [mm]	Dim. l [mm]	Weight [kg]
320131521	320131520	34	100	74	0.16
320131523	320131522	45	128	102	0.25



Tarpaulin tube bracket, single

Raw steel, weight 0.32 kg.

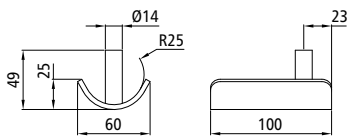
125131204



Tarpaulin tube bracket, double

Raw steel, weight 0.55 kg.

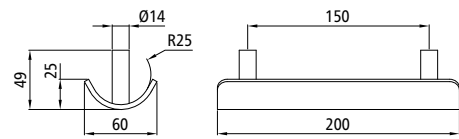
125131206



Tarpaulin tube bracket, single

For tarpaulin tube, Ø 50 mm, raw steel, weight 0.26 kg.

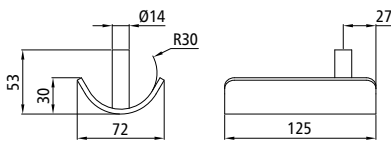
125131309



Tarpaulin tube bracket, double

For tarpaulin tube, Ø 50 mm, raw steel, weight 0.53 kg.

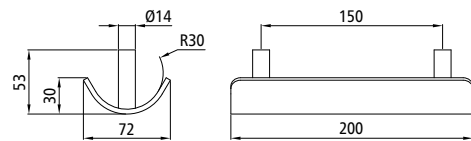
125131310



Tarpaulin tube bracket, single

For tarpaulin tube, Ø 60 mm, raw steel, weight 0.37 kg.

125131202



Tarpaulin tube bracket, double

For tarpaulin tube, Ø 60 mm, raw steel, weight 0.70 kg.

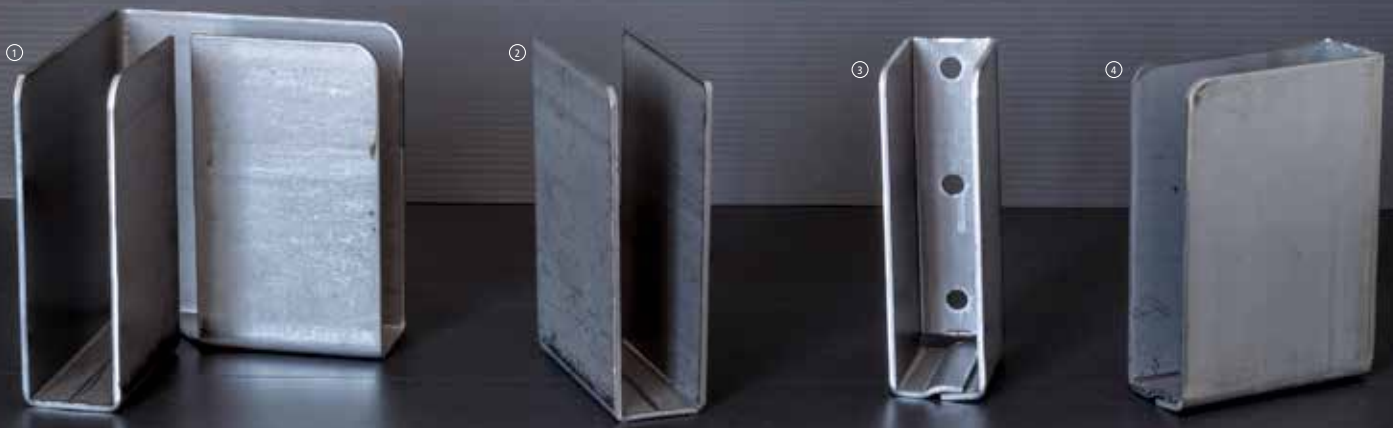
125131203

Our range also includes cover systems

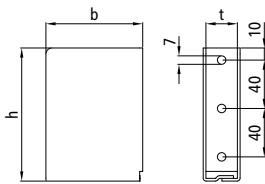
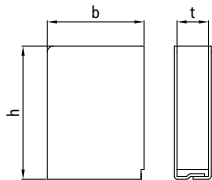
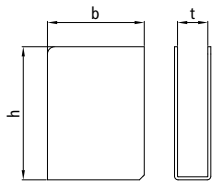
Our Aluminium Technologies Department is where you will find our experts in cover systems and spare parts. The most common covers and spare parts are listed in our workshop catalogue, but you will also find it worth your while to take a look at our current Edscha spare parts catalogue.

You can get a copy of the german workshop catalogue from your sales consultant, or by downloading it from our website; the Edscha spare parts catalogue in german is only available for download from www.suer.de.





**Insertion pockets?
But aren't they...**
Insertion pockets are also called half-pockets, batten pockets, tarpaulin pockets or span pockets.



Insertion pockets, open

Pos. 2.

Item number	Version	Dim. b [mm]	Dim. h [mm]	Dim. t [mm]	Weight [kg]
125131225	Raw steel	80	80	26	0.27
125131224	Raw steel	80	110	26	0.30
125131222	Raw steel	80	110	28	0.30
125131223	Raw steel	120	110	28	0.47

Insertion pockets, closed

Pos. 4, no hole pattern.

Item number	Version	Dim. b [mm]	Dim. h [mm]	Dim. t [mm]	Weight [kg]
125131227	Raw steel	120	110	28	0.50
125131337	Raw steel	100	100	30	0.44

Insertion pockets, closed

Pos. 3, with hole pattern for rivet fastening.

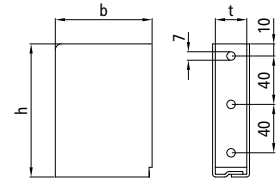
Item number	Version	Dim. b [mm]	Dim. h [mm]	Dim. t [mm]	Weight [kg]
125132331	Raw steel	50	110	26	0.25
125132031	Steel, KTL-coated	50	110	26	0.25
125131920	Steel, blue chromed	50	110	26	0.25
125131228	Raw steel	80	110	26	0.30
125132028	Steel, KTL-coated	80	110	26	0.30
125132130	Raw steel	50	110	28	0.25
125132030	Steel, KTL-coated	50	110	28	0.25
125131226	Raw steel	80	110	28	0.40
125132026	Steel, KTL-coated	80	110	28	0.40
125132126	Zinc plated steel	80	110	28	0.40

Insertion pockets/depot batten pockets for CS stanchions or the PWP trailer kit are available as accessories for these products. You can find the Curtainsider central stanchions section of this catalogue from page 157 onward.

Insertion pockets, closed

Pos. 3, with hole pattern for rivet fastening, welded.

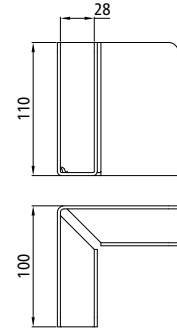
Item number	Version	Dim. b [mm]	Dim. h [mm]	Dim. t [mm]	Weight [kg]
125132231	Raw steel	50	110	26	0.25
125132228	Raw steel	80	110	26	0.40
125131883	Steel, KTL-coated	80	110	28	0.40



Insertion pocket

Pos. 1, corner pocket, steel, raw, weight 0.69 kg.

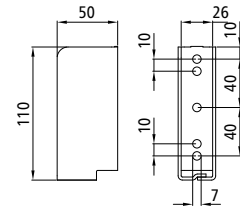
125131235



Insertion pocket, T-Lock

Similar to Pos. 3, steel, aluminium-magnesium alloy surface, weight 0.25 kg.

143112793



T-Lock

For the PWP aluminium trailer kit with certification according to DIN EN 12642 XL, only a simple weatherproof tarpaulin will in future be required when using slat 621045 with the T-Lock system. The previous certificates required a reinforced tarpaulin.

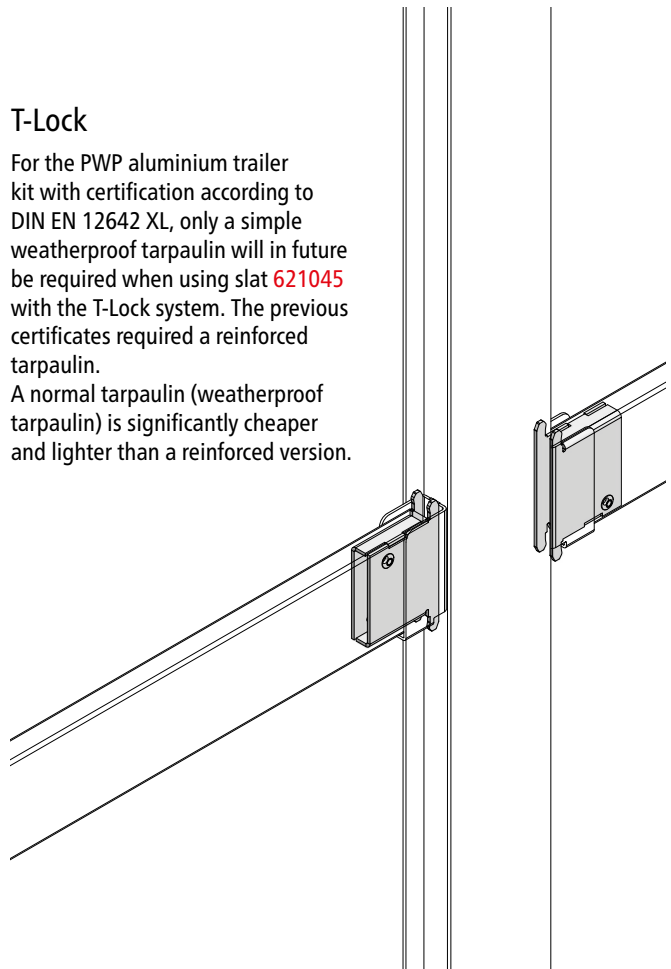
A normal tarpaulin (weatherproof tarpaulin) is significantly cheaper and lighter than a reinforced version.

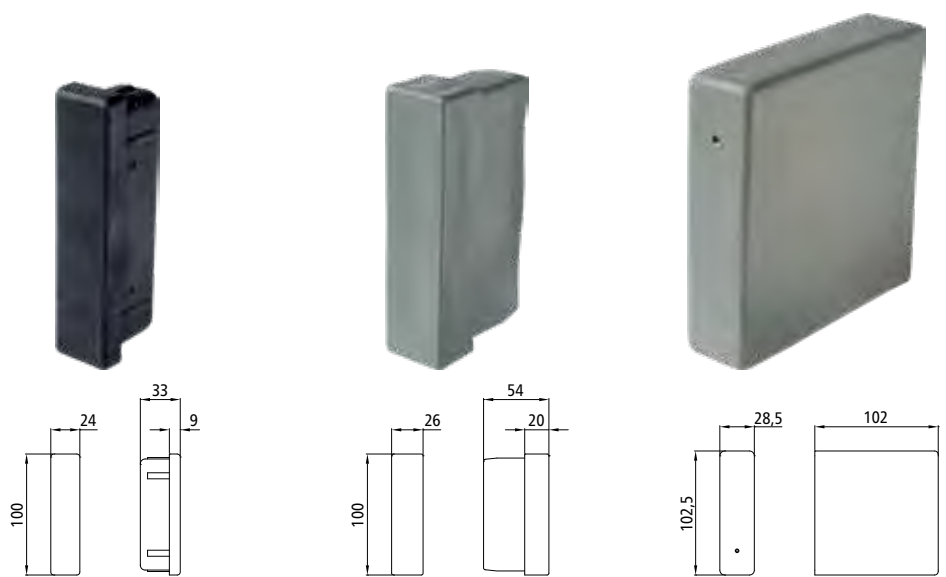
T-Lock

Hook plate for aluminium slat 621045. Zinc plated steel, weight 0.20 kg.

Requires 2 hook plates per insertion pocket. T-Lock may only be used in combination with aluminium slat profile 621045.

605646825





End stop

Pos. 3, suitable for slat profile 621045, black PUR, weight 0.03 kg.

215131536

End stop

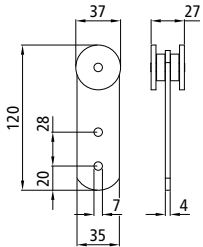
Pos. 2, suitable for slat profile 621045, grey plastic, weight 0.05 kg.

320131382

End stop

Pos. 1, suitable for slat profiles 621045 and 621315, grey plastic, weight 0.06 kg.

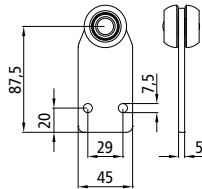
320131383



Tarpaulin roller

Zinc plated steel,
weight 0.21 kg.
For steel C-rails.

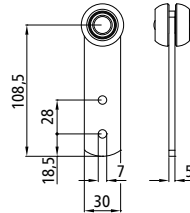
670903293



Tarpaulin roller

Zinc plated steel,
weight 0.22 kg.
For Universal Classic cant rail.

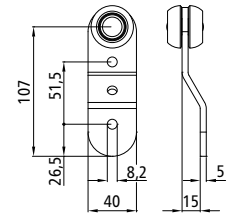
660830060



Tarpaulin roller

Zinc plated steel,
weight 0.20 kg.
For Universal Classic cant rail.

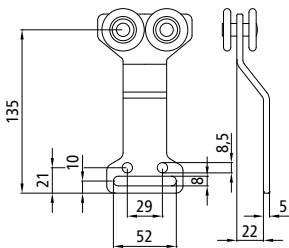
650000017



Tarpaulin roller

Zinc plated steel,
weight 0.24 kg.
For Universal Classic cant rail.

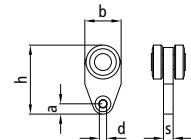
660031360



Tarpaulin roller

Zinc plated steel,
weight 0.40 kg.
For old cant rail 165 mm/10073.
Cant rail is no longer available.

660510200

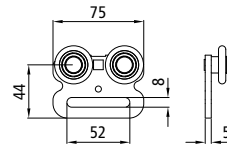


Tarpaulin roller for steel guide rails

Plastic.
For the sake of completeness, we have listed tarpaulin rollers for steel guide rails here. Guide rails and accessories for these can be found on page 256 onward.

Item number	For Guide rail	Dim. b [mm]	Dim. h [mm]	Dim. s [mm]	Dim. d [mm]	Dim. a [mm]	Load capacity [kg]
320121537	1	Similar to illustration, no dimensions available					15 ¹
320121155	2	Similar to illustration, no dimensions available					60 ¹
320121601	2	22.5	--	5	5	--	5
320121157	3	25	49	6	5	7.25	10
320121546	4	30	57	8	6	7.25	20

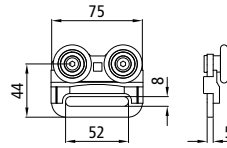
The guide rails specification refers to the illustrations on page 256 . ¹ Casement weight.



Tarpaulin roller

TIR-compatible, zinc plated steel, weight 0.17 kg.
For Compact, Standard and Volumen cant rails.

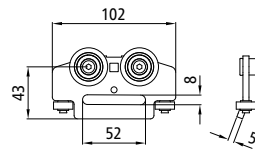
660085810



Tarpaulin roller

TIR-compatible, zinc plated steel, weight 0.18 kg.
For Compact, Standard and Volumen cant rails.

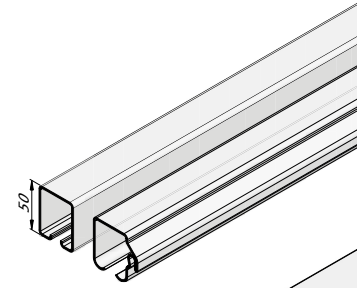
660085800



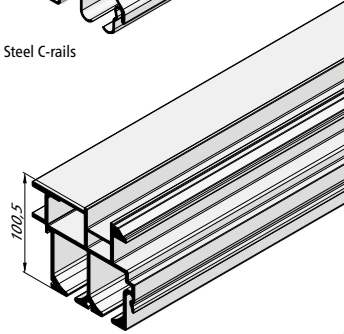
Tarpaulin roller SPR-4

TIR-compatible, zinc plated steel, weight 0.22 kg.
For Compact, Standard and Volumen cant rails.

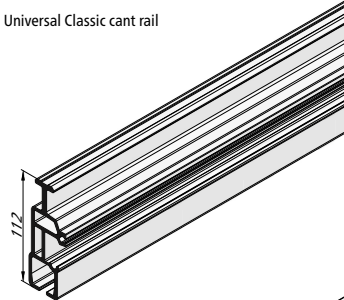
660088940



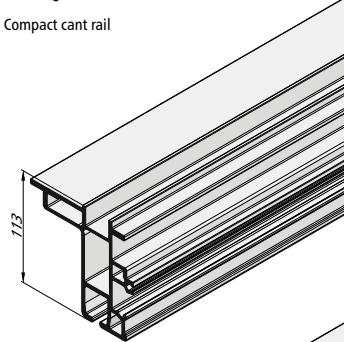
Steel C-rails



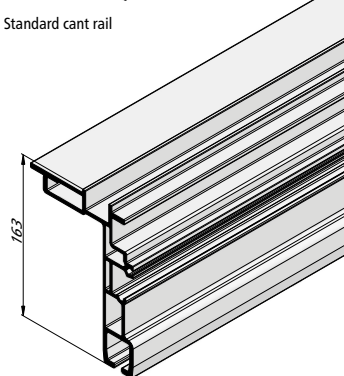
Universal Classic cant rail



Compact cant rail



Standard cant rail



Volumen cant rail



Tarpaulin roller guard clip

Black plastic.
Reduces wear on the tarpaulin loop, aluminium cant rail and ball bearings.
For tarpaulin roller 660085800, also suitable for 660085810.

660079750



Tarpaulin roller repair set - Round hole

Contents as shown.
For all older, non-TIR-compatible tarpaulin roller versions which look similar to the tarpaulin rollers on this page.

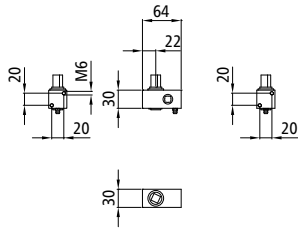
660083960



Tarpaulin roller repair set - Standard

TIR-compatible, contents as shown.
For all tarpaulin rollers on this page. The guard clip is not required for 660085810 and 660088940.

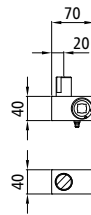
660083970



Piccolo

With square slot, 12 mm, usable on both sides, for hand crank, square, 10 mm, zinc plated steel, weight 0.41 kg.

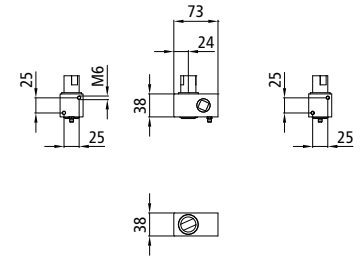
670900005



Tarpaulin tensioning drive

With slot attachment usable on both sides for hand crank, square 14 mm, steel, primed, weight 0.59 kg.

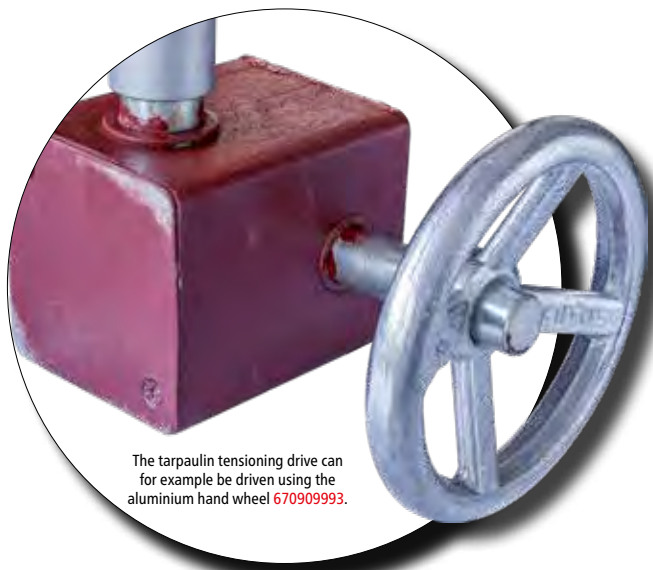
670904993



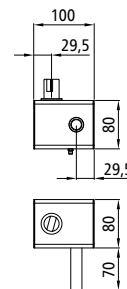
Type 40

With slot attachment usable on both sides for hand crank, square 14 mm, zinc plated steel, weight 0.79 kg.

670900006



The tarpaulin tensioning drive can for example be driven using the aluminium hand wheel 670909993.



Tarpaulin tensioning drive

With slot attachment for hand wheel, steel primed.

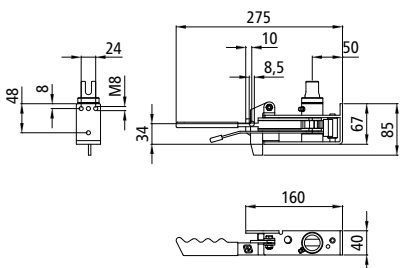
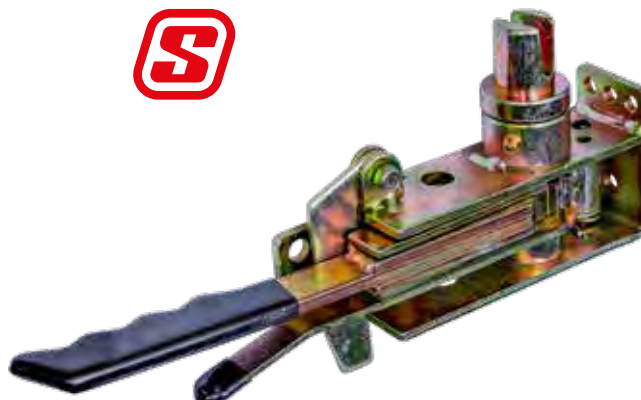
Item number	Version	Weight [kg]
670904093	left	2.37
670904193	right	2.37



S-Line® tarpaulin tensioning ratchet

With slot attachment, zinc plated steel.

Item number	Version	Weight [kg]
670905493	left	1.59
670905593	right	1.59



Items with left/right hand versions: Illustrations show the left-hand version



PWP adapter, TIR load securing

For $\varnothing 27$ mm tarpaulin tensioning tube, Inox.

Item number	Version	Weight [kg]
670025358	for square 12 mm, left	0.24
670025359	for square 12 mm, right	0.24
670025360	for slot attachment, left	0.24
670025361	for slot attachment, right	0.24

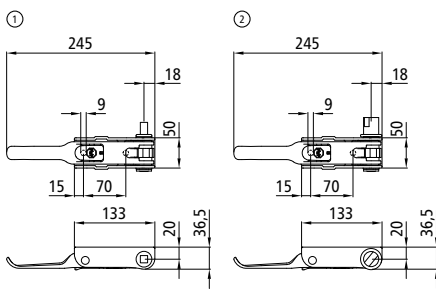


The new version of the PWP tender

The housing now has a top and bottom bulge, which allows the rotatable central part of the new TIR load securing adapter to be locked positively into the upper bulge to the rear of the hand grip. When it is closed, it is no longer possible to lift out the $\varnothing 27$ mm aluminium tarpaulin tensioning tube adjacent to the tender tensioning ratchet.

When combined with a customs strap inserted into the openings of the tender tensioning ratchet, the patented assembly (tender and TIR load securing adapter) is TIR-compliant and approved for international transport. The TIR load securing adapter is mounted underneath onto the $\varnothing 27$ mm aluminium tarpaulin tensioning tube like any traditional insert.

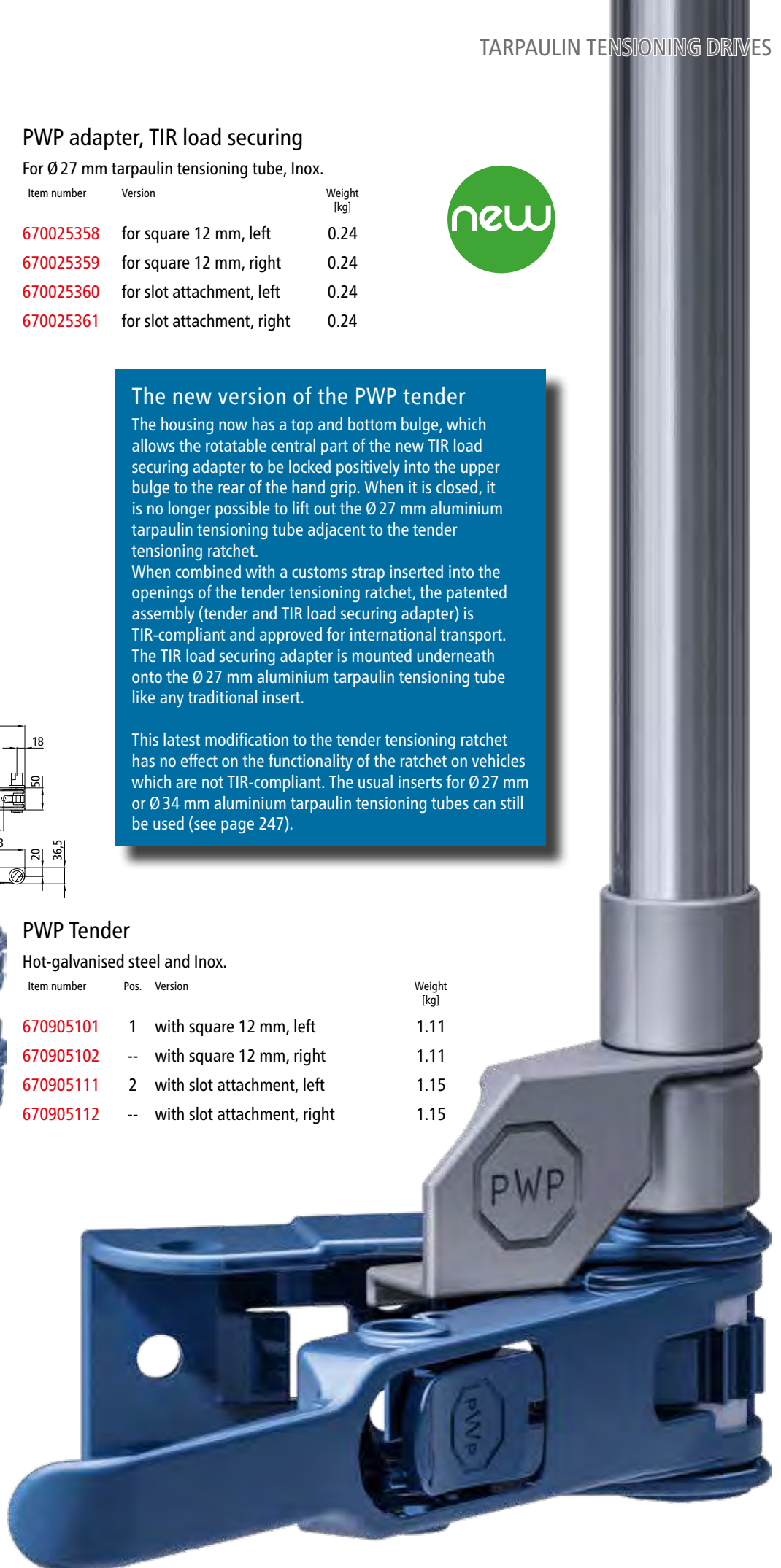
This latest modification to the tender tensioning ratchet has no effect on the functionality of the ratchet on vehicles which are not TIR-compliant. The usual inserts for $\varnothing 27$ mm or $\varnothing 34$ mm aluminium tarpaulin tensioning tubes can still be used (see page 247).

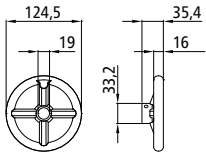


PWP Tender

Hot-galvanised steel and Inox.

Item number	Pos.	Version	Weight [kg]
670905101	1	with square 12 mm, left	1.11
670905102	--	with square 12 mm, right	1.11
670905111	2	with slot attachment, left	1.15
670905112	--	with slot attachment, right	1.15





Hand wheel

Aluminium, weight 0.22 kg.
Suitable for tarpaulin tensioning drives 670904093/-193.

670909993



Hand crank

Pos. 1, square, 10 mm + 14 mm, zinc plated steel, weight 0.72 kg.

670000521



Hand crank

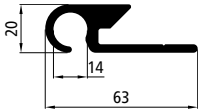
Pos. 2, square, 14 mm, zinc plated steel, weight 0.23 kg.

670909693

Hand crank

Pos. 3, square, 10 mm, zinc plated steel, weight 0.22 kg.

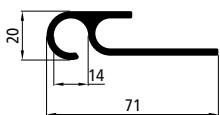
670000522



Tarpaulin tensioning hook

Pos. 1, bare aluminium, EN AW-6063 T66, weight 1.29 kg/m.

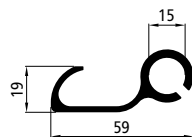
Item number	Length [mm]
670901294	3000
670901295	3300



Tarpaulin tensioning hook

Pos. 2, length 3100 mm, anodised aluminium, EN AW-6063 T66, weight 0.90 kg/m.

670044641



Tarpaulin tensioning hook

Pos. 3, length 3300 mm, bare aluminium, EN AW-6063 T66, weight 1.03 kg/m.

670901293



Tarpaulin tensioning tube, Ø 27 mm

Pos. 4, bare aluminium, EN AW-6063 T66, weight 0.76 kg/m.

Item number	Length [mm]
670900303	3000
670900301	3300



Tarpaulin tensioning tube, Ø 34 mm

Pos. 5, bare aluminium, EN AW-6063 T66, weight 1.27 kg/m.

Item number	Length [mm]
670999925	3000
670999205	3300



You will also find these alumina profiles in our Aluminium catalogue, illustrated in 1:1 scale cross-sections.



S-Line® stainless steel inserts, Ø 27 mm

Pos. 1 + 2, for square, 12 mm.

Item number	Version	Weight [kg]
670900312	top	0.12
670900322	bottom	0.12

PWP stainless steel inserts, bottom, Ø 27 mm

Pos. 3 + 4.

Item number	Version for	Weight [kg]
670025355	square	0.13
670025373	slot attachment	0.12

S-Line® stainless steel inserts, Ø 34 mm

Pos. 5 + 6, for slot attachment.

Item number	Version	Weight [kg]
670999208	top	0.19
670999210	bottom	0.18

PWP stainless steel insert, bottom, Ø 34 mm

Pos. 7, for slot attachment, weight 0.20 kg.

670025372



Brass insert, bottom, Ø 34 mm

For square, 12 mm, weight 0.18 kg.

670310434



Adapter

Slot attachment, square, 12 mm, zinc plated steel, weight 0.08 kg.

670000411

Current trends

The big names in the industry no longer fit the top end of the tarpaulin tensioning tube with an insert. They use the "PWP tarpaulin tensioning tube, Ø 27 mm, complete", which permits the upper insert and in which the bottom adapter/insert 670025355 is already permanently connected to the tarpaulin tensioning tube.

Extension cord Ø 10 mm

Pos. 1, polyethylene sheath, UV-resistant, white, on 100 m roll.

320133082

Extension cord Ø 8 mm

Pos. 2, polyethylene sheath, UV-resistant, black, on 100 m roll.

320133081

Extension cord Ø 10 mm

Pos. 2, polyethylene sheath, UV-resistant, black, on 100 m roll.

320133092

Tarpaulin cord Ø 8 mm

Similar to Pos. 3, no insert, translucent plastic, on 100 m roll.

320135638

Tarpaulin cord Ø 8 mm

Similar to Pos. 3, with sisal insert, translucent plastic sheath, on 100 m roll.

320135437

Tarpaulin cord Ø 8 mm

Similar to Pos. 3, with nylon insert, translucent plastic sheath, on 100 m roll.

320133091

Tarpaulin cord Ø 8 mm

Pos. 3, with steel wire insert, translucent plastic sheath, on 100 m roll.

320135115

①

②

③



Crimping sleeve

Zinc plated steel.

Item number	For cord Ø [mm]
320133076	8
320133083	10



Cord termination for tarpaulin cord, 8 mm

Complies with customs regulations, zinc plated steel.

320131439



Cord termination with simplex hook

Length 120 mm, zinc plated steel.

Item number	For cord [mm]
320131119	8
320131120	10



Strap

Pos. 1, size approx. 25 × 170, hole interval 25 mm, beige plastic.

320133073

Buckled belt

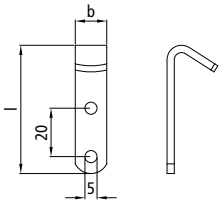
Pos. 2, with welded buckle roller, beige plastic.

Item number	Size approx. [mm]
320133014	20 × 85
320133046	20 × 350
320133047	20 × 500
320133049	20 × 700

Rubber tensioning ring

Pos. 3, UV-resistant, wear-resistant, black, EPDM.

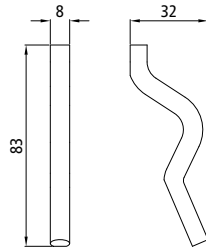
Item number	Length approx. [mm]
320133085	250
320133086	400



Staples

Zinc plated steel,
weight 0.02 kg.

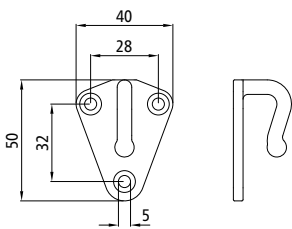
Item number	Dim. b [mm]	Dim. l [mm]
320133042	13	53
320133041	20	74



Container tarpaulin hook

Raw steel, weight 0.04 kg.

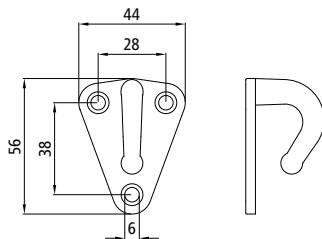
103141345



Three-hole tarpaulin hook, small

Hot-dip galvanised steel,
weight 0.04 kg.

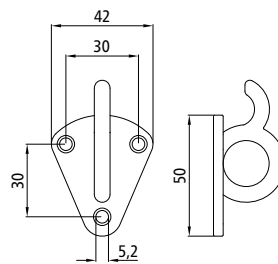
320131125



Three-hole tarpaulin hook, large

Aluminium, weight 0,03 kg.

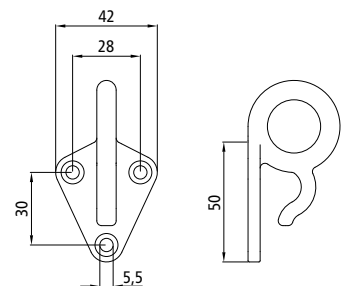
320131126



Ring hook

Hot-dip galvanised steel,
weight 0.06 kg.

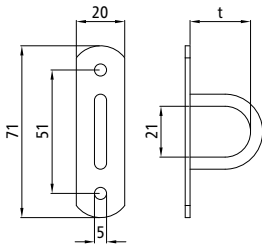
320131121



Combi-tarpaulin hook

Hot-dip galvanised steel,
weight 0.08 kg.

320131122

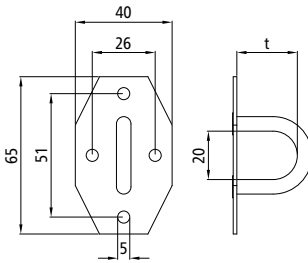


Staples

Zinc plated steel.

For \varnothing 36 and 40 mm eyelets and 42×22 mm oval eyelets.

Item number	Dim. t [mm]	Weight [kg]
320131444	21	0.03
320131445	25	0.03
320131446	30	0.03
320131447	38	0.03
320131448	45	0.04

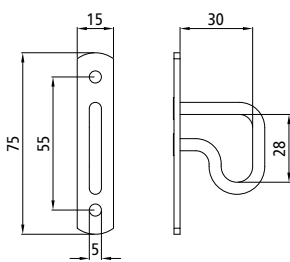


Staples

With 4-hole plate, zinc plated steel.

For \varnothing 36 and 40 mm eyelets and 42×22 mm oval eyelets.

Item number	Dim. t [mm]	Weight [kg]
320131328	25	0.04
320131333	30	0.05



Staple

Zinc plated steel.

For \varnothing 40 mm eyelets and 42×22 mm oval eyelets.

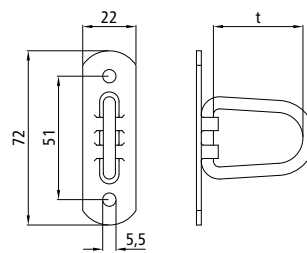
320133036

Foldable staple

Customs-authorised, zinc plated steel.

For \varnothing 36 and 40 mm eyelets and 42 x 22 mm oval eyelets.

Item number	Dim. t [mm]	Weight [kg]
320131508	37	0.04
320131509	45	0.04
320131510	55	0.06

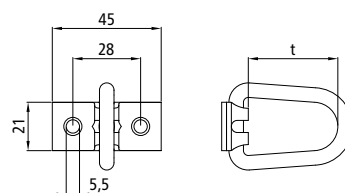


Foldable staple

With welded counter plate in accordance with customs regulations, zinc plated steel.

For \varnothing 36 and 40 mm eyelets and 42 x 22 mm oval eyelets.

Item number	Dim. t [mm]	Weight [kg]
320131503	25	0.04
320131504	37	0.04
320131505	45	0.05
320131506	55	0.05

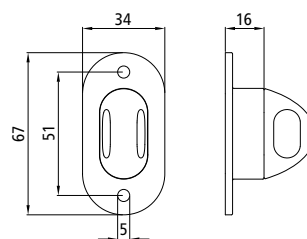


Plastic turnbutton fastener

Weight 0.02 kg.

For oval eyelets, 42 x 22 mm.

320131379

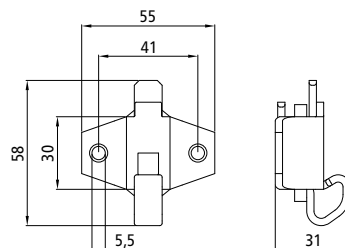


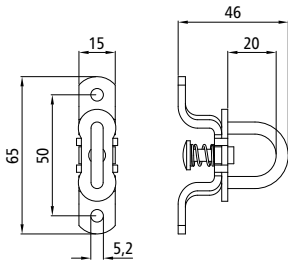
Quick-release sliding fastener

Aluminium, weight 0.03 kg.

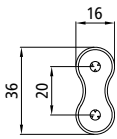
For \varnothing 40 mm eyelets and 42 x 22 mm oval eyelets.

320131500





Turnbutton fastener
Weight 0.05 kg.
For oval eyelets, 42 × 22 mm.
320131127



Rivet pad
Grey plastic.
320133030



Rectangular slotted eyelet
Inner dimensions 38 × 8 mm, height 10.3 mm, zinc plated steel.
320133039



Round eyelet with ring
Zinc plated steel.

Item number	Inner Ø [mm]	Outer Ø [mm]	Height [mm]
320133006	20	36	9.4
320133008	36	60	13.1
320133009	40	62	13.0

Plastic underlay ring

For round eyelets with inner Ø 40 mm, transparent PE, not shown.
320133028



Oval eyelet with ring
Inner Ø 42 × 22 mm, zinc plated steel.
320133040

Plastic underlay ring

For oval eyelets with inner Ø 42 × 22 mm, transparent PE, not shown.
320133019



Steel C-rail

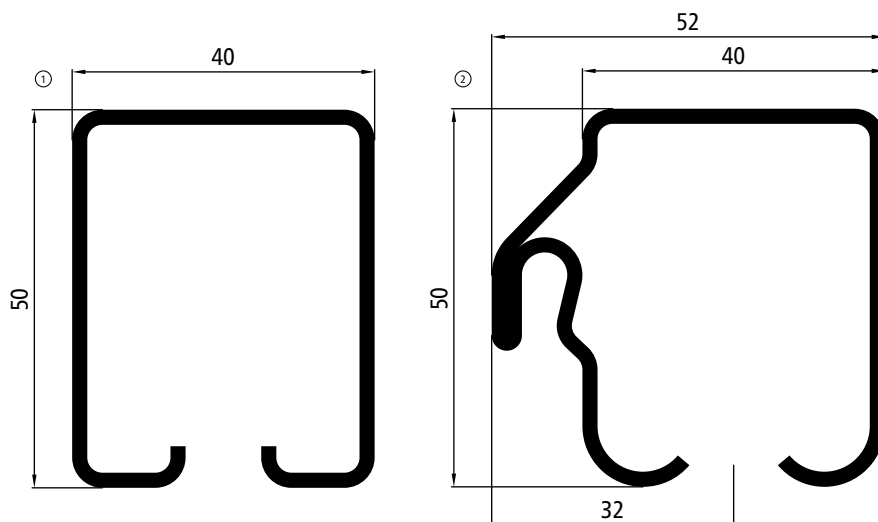
Pos. 1, length 7000 mm, zinc plated steel, weight 17.6 kg.

670901493

Steel C-rails

Pos. 2, with receptacle for PVC sealing lip 670901793/
670901893, zinc plated steel.

Item number	Length [mm]	Weight [kg]
670901593	7000	20.55
670901594	7800	22.90



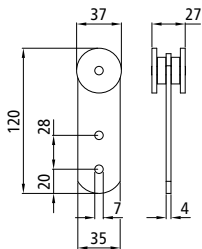
Our experience has shown that the cross-sections of PVC sealing lips often undergo changes in detail. In order to avoid unnecessary problems, we recommend that you select your PVC sealing lip based on the corresponding steel C-rail, and not the illustrated PVC sealing lip cross-section.



PVC sealing lips

Height approx. 115 mm, weight 0.53 kg/m.

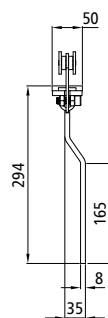
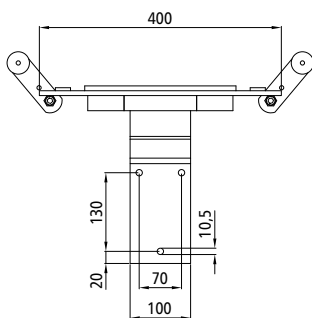
Item number	Colour	Length [m]
670901793	black	16
670901893	black	56



Tarpaulin roller

Zinc plated steel, weight 0.21 kg. For steel C-rails.

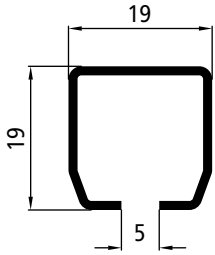
670903293



Pillar rackets

Steel, black KTL-coated, weight 4.34 kg. With rollers for steel C-rails.

670980393

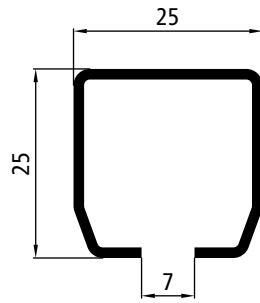


Steel track

Profile 1, length 6000 mm, zinc plated steel, weight 0.59 kg/m.

Market names:
Profile 13 or Type 11.

320121590

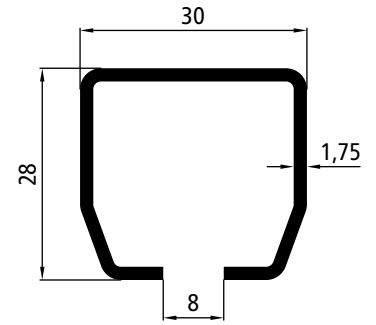


Steel track

Profile 2, length 6000 mm, zinc plated steel, weight 0.90 kg/m.

Market names:
Profile 45 or Type 12.

320121591

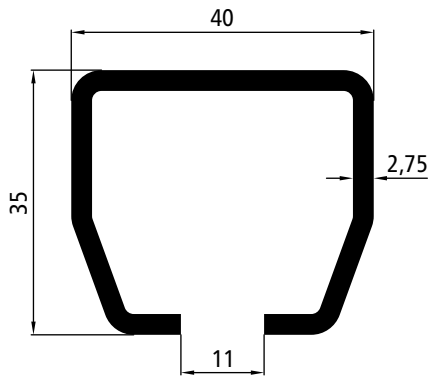


Steel track

Profile 3, length 6000 mm, zinc plated steel, weight 1.28 kg/m.

Market names:
Profile 100 or Type 21.

320121592

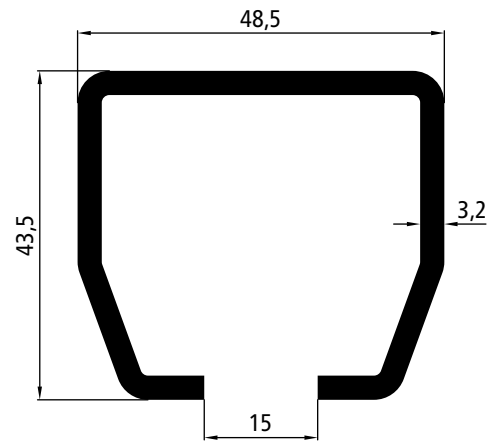


Steel tracks

Profile 4, length 6000 mm, weight 2.51 kg/m.

Market names:
Profile 300 or Type 23.

Item number	Version
320121593	zinc plated steel
320121950	stainless steel V2A

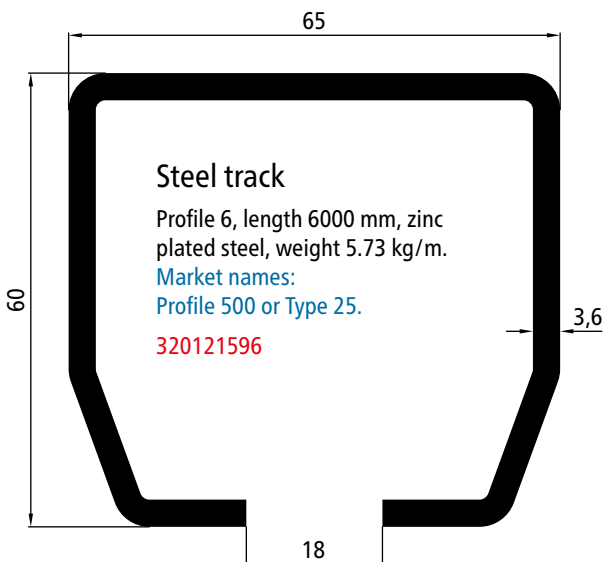


Steel track

Profile 5, length 6000 mm, zinc plated steel, weight 3.60 kg/m.

Market names:
Profile 400 or Type 24.

320121595

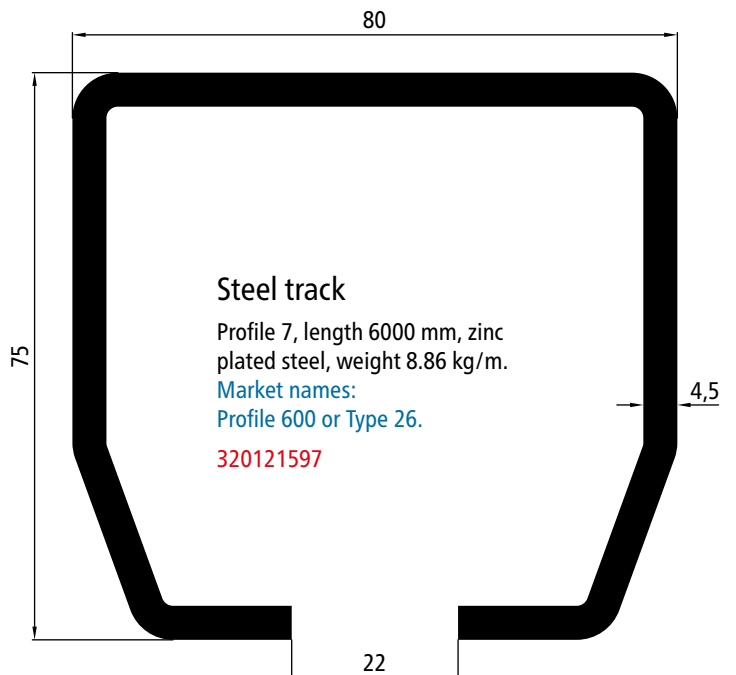


Steel track

Profile 6, length 6000 mm, zinc plated steel, weight 5.73 kg/m.

Market names:
Profile 500 or Type 25.

320121596



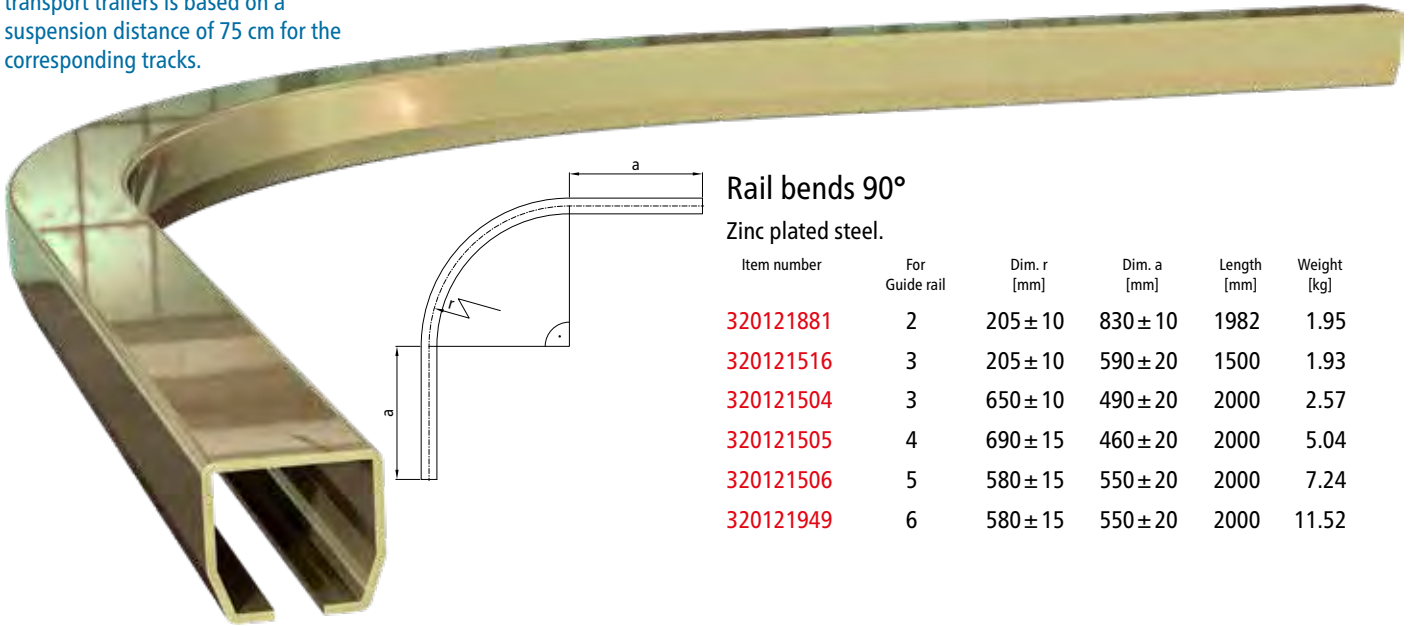
Steel track

Profile 7, length 6000 mm, zinc plated steel, weight 8.86 kg/m.

Market names:
Profile 600 or Type 26.

320121597

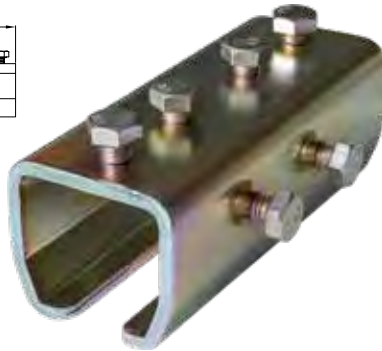
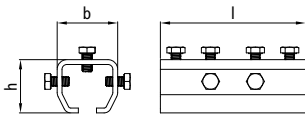
The load capacity data for the rollers, rolling apparatus and transport trailers is based on a suspension distance of 75 cm for the corresponding tracks.



Rail bends 90°

Zinc plated steel.

Item number	For Guide rail	Dim. r [mm]	Dim. a [mm]	Length [mm]	Weight [kg]
320121881	2	205 ± 10	830 ± 10	1982	1.95
320121516	3	205 ± 10	590 ± 20	1500	1.93
320121504	3	650 ± 10	490 ± 20	2000	2.57
320121505	4	690 ± 15	460 ± 20	2000	5.04
320121506	5	580 ± 15	550 ± 20	2000	7.24
320121949	6	580 ± 15	550 ± 20	2000	11.52

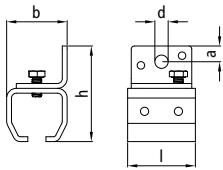


Connecting components

Zinc plated steel.

When mounting on the tracks, first tighten the top screws and then align the profile using the side screws.

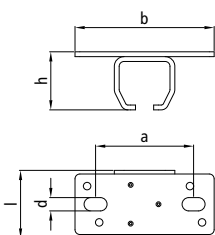
Item number	For Guide rail	Dim. b [mm]	Dim. h [mm]	Dim. l [mm]
320121517	3	38	36	85
320121518	4	50	44	120
320121519	5	61	54	150
320121544	6	81	75	180



Wall mounting components

Zinc plated steel.

Item number	For Guide rail	Dim. b [mm]	Dim. h [mm]	Dim. l [mm]	Dim. d [mm]	Dim. a [mm]
320121525	3	38	60	40	8	10
320121526	4	50	79	56	11	13
320121527	5	61	95	68	13	16



Wall mounting components

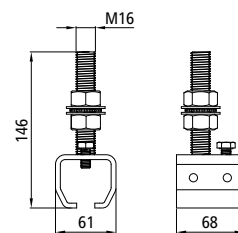
Zinc plated steel.

Item number	For Guide rail	Dim. b [mm]	Dim. h [mm]	Dim. l [mm]	Dim. d [mm]	Dim. a [mm]
320121529	3	90	39	40	8	64
320121530	4	115	50	56	11	81
320121531	5	130	60	68	13	94
320121542	6	171	81	90	17	124

Components are height-adjustable

For track 5, zinc plated steel.

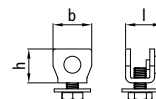
320121599



Track stopper

Short version, zinc plated steel.

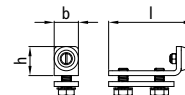
Item number	For Guide rail	Dim. b [mm]	Dim. h [mm]	Dim. l [mm]
320121154	3	25	23	25
320121144	4	32	28	30
320121145	5	39	34	30

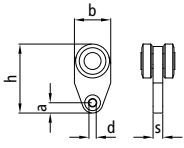


Track stopper

Zinc plated steel.

Item number	For Guide rail	Dim. b [mm]	Dim. h [mm]	Dim. l [mm]
320121577	4	20	24	70
320121578	5	30	30	75
320121580	7	50	55	135



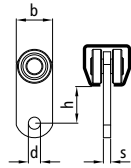


Tarpaulin roller

Plastic.

Item number	For Guide rail	Dim. b [mm]	Dim. h [mm]	Dim. s [mm]	Dim. d [mm]	Dim. a [mm]	Load capacity [kg]
320121537	1	Similar to illustration, no dimensions available					15 ¹
320121155	2	Similar to illustration, no dimensions available					60 ¹
320121601	2	22.5	--	5	5	--	5
320121157	3	25	49	6	5	7.25	10
320121546	4	30	57	8	6	7.25	20

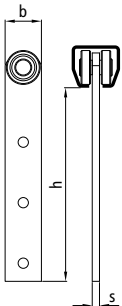
¹Casement weight



Rollers, single-pair

Zinc plated steel.

Item number	For Guide rail	Dim. b [mm]	Dim. h [mm]	Dim. s [mm]	Dim. d [mm]	Load capacity [kg]
320121514	3	25	20	5	6	10
320121559	4	30	32	6	10	20
320121560	5	40	39	8	14	40
320121562	7	70	47	12	22	200



Roller apparatus, single-pair

Zinc plated steel.

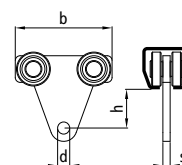
Item number	For Guide rail	Dim. b [mm]	Dim. h [mm]	Dim. s [mm]	Load capacity [kg]
320121568	3	20	148	3	30
320121569	4	30	160	4	65



Carrying book, double-pair

Zinc plated steel.

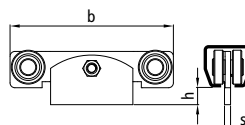
Item number	For Guide rail	Dim. b [mm]	Dim. h [mm]	Dim. s [mm]	Dim. d [mm]	Load capacity [kg]
320121513	3	60	20.5	4.5	8	20
320121551	4	80	32	6	10	40
320121552	5	100	40	8	14	80
320121553	6	120	42	10	18	200
320121554	7	145	47	12	22	400



Roller apparatus, double-pair

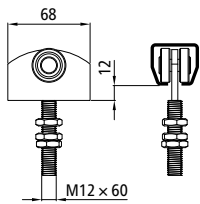
With self-alignment and swing-damping, zinc plated steel, raw steel welding plate.

Item number	For Guide rail	Dim. b [mm]	Dim. h [mm]	Dim. s [mm]	Load capacity [kg]
320121510	3	107	12	3	50
320121511	4	135	14	4.5	100
320121512	5	182	19	6	200
320121532	6	242	21	8	300





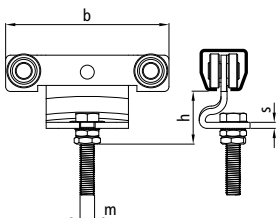
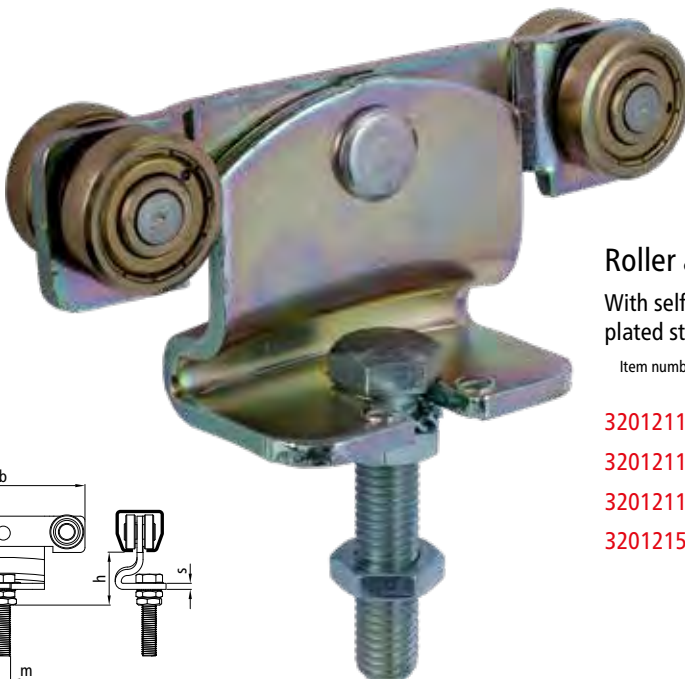
Our steel tracks come with a very wide range of accessories covering mounting components, rollers, roller apparatus, etc. in many different versions.
To find out more, please ask your sales consultant.



Roller apparatus, single-pair

For track 4, zinc plated steel.

320121524



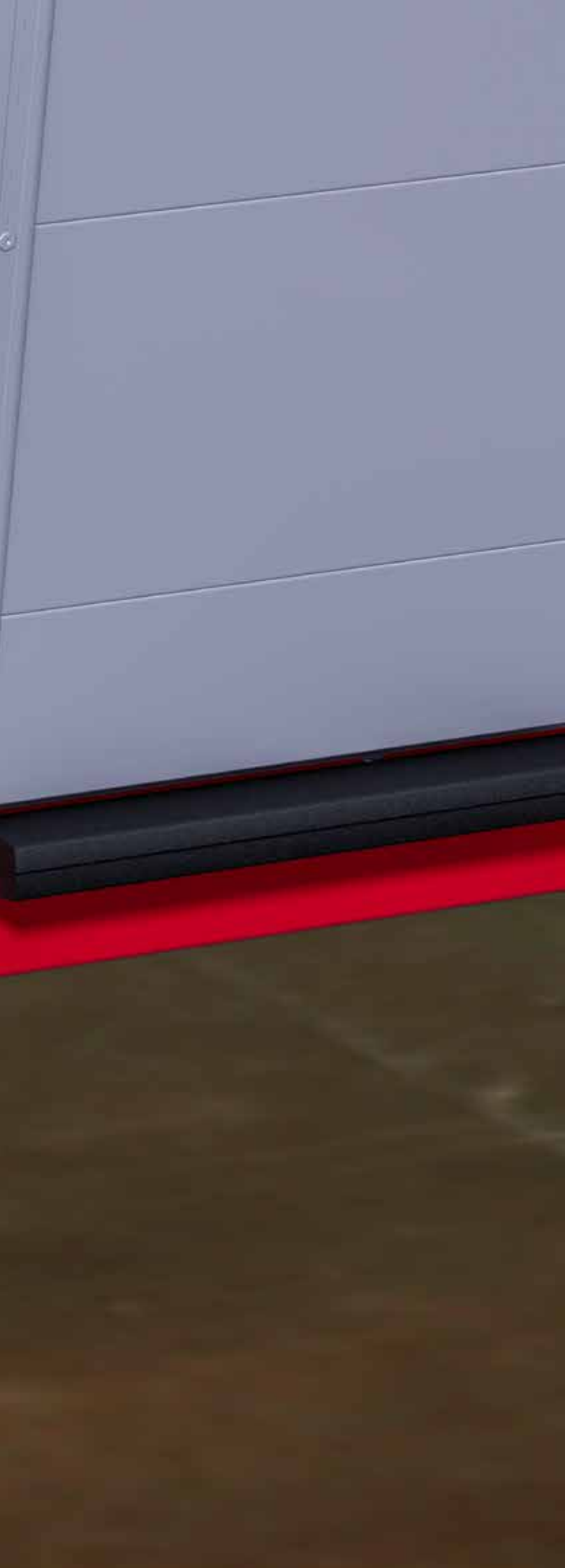
Roller apparatus, double-pair

With self-adjustment, swing-damping and positioning screws, zinc plated steel.

Item number	For Guide rail	Dim. b [mm]	Dim. h [mm]	Dim. s [mm]	Dim. m [mm]	Load capacity [kg]
320121152	3	107	38 - 52	3	M 10×40	50
320121142	4	135	45 - 75	4,5	M 12×60	100
320121143	5	182	52 - 85	6	M 16×70	200
320121538	6	242	65 - 95	8	M 20×80	300



ACCESSORIES

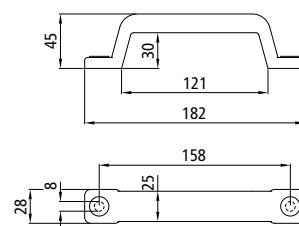


HAND GRIPS	264
SAFETY ELEMENTS	265
GAS STRUTS	266
PVC RIGID/SOFT PROFILES	269
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DOOR BUFFERS	271
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FLAP AND SIDE BOARD RETAINERS	276
DOOR RETAINERS	277
RUBBER UNDERLAYS FOR TIPPER BODIES	279
ROOF VENT	280

Hand grip, small

Black plastic,
weight 0.12 kg.

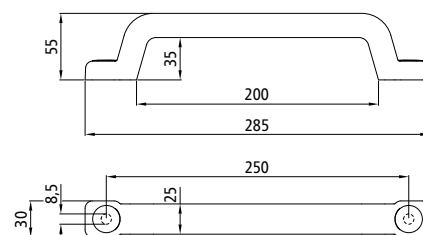
215131511



Hand grip, large

Black polyurethane integral
foam on zinc plated steel core,
weight 0.29 kg.

215131512





Securing strap

Pos. 4, length approx. 270 mm, with $\varnothing 3.8$ mm and $\varnothing 3$ mm S-shaped hook, zinc plated steel hook, plastic strap, weight 0.2 kg.

Item number	Strap colours
215105037	transparent
101101037	black

Securing chain

With $\varnothing 3.8$ mm S-shaped hook and screw-on mounting plate, zinc plated steel.

Item number	Pos.	Length [mm]	Weight [kg]
215101890	3	270	0.03
215101606	2	320	0.03
215102813	1	385	0.04



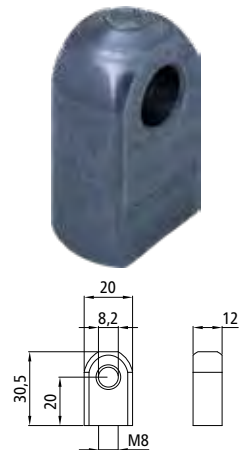
Illustration: Securing chains with screw-on mounting plates



Gas struts

Damping for extended piston rod, zinc plated steel round-eye connectors.
Please order hinge brackets/support brackets separately.

Item number	Name	Spring force [N]	Stroke [mm]	Dim. l retracted [mm]	Dim. l extended [mm]	Dim. d1 [mm]	Dim. d2 [mm]	Weight [kg]
215141170	0-3-150-1/250 N-295/445 A/A	250	150	295	445	10	22	0.44
215141171	0-3-150-1/500 N-295/445 A/A	500	150	295	445	10	22	0.44
215141172	0-3-150-1/750 N-295/445 A/A	750	150	295	445	10	22	0.44
215141173	0-3-150-1/1000 N-295/445 A/A	1000	150	295	445	10	22	0.44
215141174	4-8-150-1/1250 N-245/395 A/A	1250	150	245	395	14	28	0.55
215141175	0-3-200-1/250 N-305/505 A/A	250	200	305	505	10	22	0.46
215141176	0-3-200-1/500 N-305/505 A/A	500	200	305	505	10	22	0.46
215141177	0-3-200-1/750 N-305/505 A/A	750	200	305	505	10	22	0.46
215141178	0-3-200-1/1000 N-305/505 A/A	1000	200	305	505	10	22	0.46
215141179	4-8-200-1/1500 N-295/495 A/A	1500	200	295	495	14	28	0.60
215141180	4-8-200-1/1750 N-295/495 A/A	1750	200	295	495	14	28	0.60
215141181	0-3-250-1/250 N-402/652 A/A	250	250	402	652	10	22	0.66
215141182	0-3-250-1/500 N-402/652 A/A	500	250	402	652	10	22	0.66
215141183	0-3-250-1/750 N-402/652 A/A	750	250	402	652	10	22	0.66
215141184	0-3-250-1/1000 N-402/652 A/A	1000	250	402	652	10	22	0.66
215141186	4-8-300-1/1000 N-450/750 A/A	1000	300	450	750	14	28	0.90
215141187	4-8-300-1/1250 N-450/750 A/A	1250	300	450	750	14	28	0.90



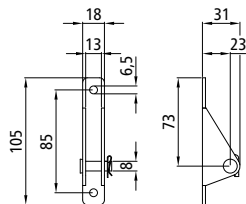
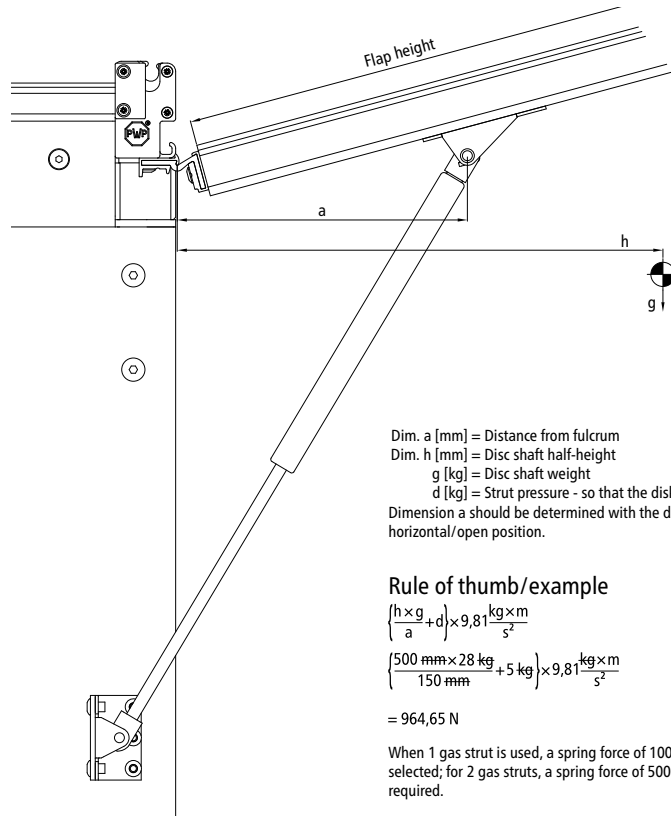
Round-eye connectors
With female thread M8,
stainless steel, weight 0.04 kg.
215141920



Round-eye connectors
With female thread M8, zinc
plated steel, weight 0.02 kg.
215141734



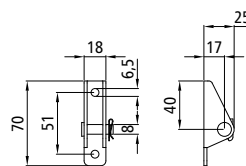
Sample calculation - gas strut



Hinge bracket

Including shear studs with nuts and SL securing parts, zinc plated steel, weight 0.08 kg.

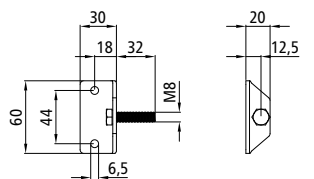
215141471



Hinge bracket

Including shear studs with nuts and SL securing parts, zinc plated steel, weight 0.06 kg.

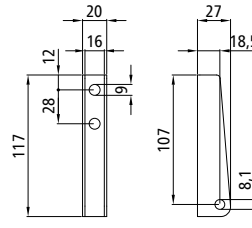
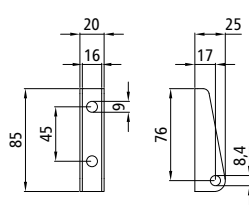
215141470



Support bracket

Bolt with thread M8, zinc plated steel, weight 0.07 kg.

215141201



Hinge bracket

Stainless steel, weight 0.06 kg.
This hinge bracket is used on the Suer side board lift support 3.0.

605646203

Hinge bracket

Stainless steel, weight 0.11 kg.
This hinge bracket is used on the Suer side board lift support 3.0.

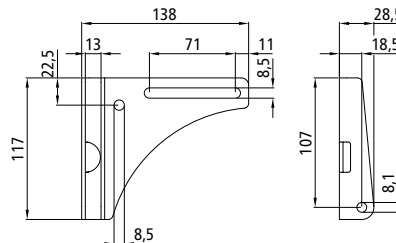
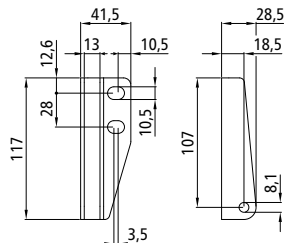
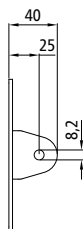
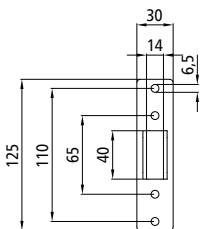
605646204



Mounting accessories

Suitable for Suer side board lift support 3.0 hinge brackets.

Item number	Name
605900032	Bolts Ø8×28
605900033	Locking washer



Hinge bracket

Zinc plated steel, weight 0.14 kg.

215141202

Hinge bracket

Zinc plated steel, weight 0.20 kg.
This hinge bracket is used on the Suer side board lift support 2.0.

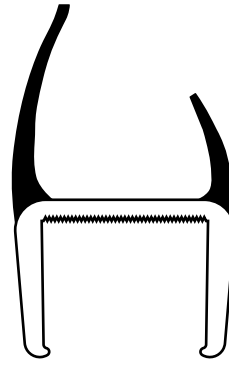
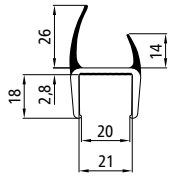
Item number	Version
605646480	left
605646481	right

Hinge bracket

Zinc plated steel, weight 0.27 kg.
This hinge bracket is used on Cargotrail SSP1 flatbed with on-board side board lift support.

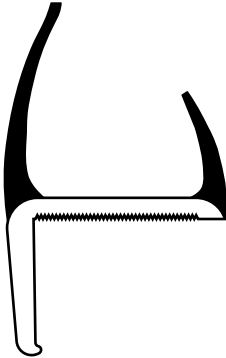
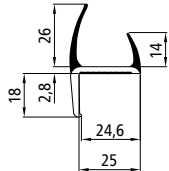
Item number	Version
605646092	left
605646093	right

The left-hand versions of items with left/right hand versions are shown in the illustrations.



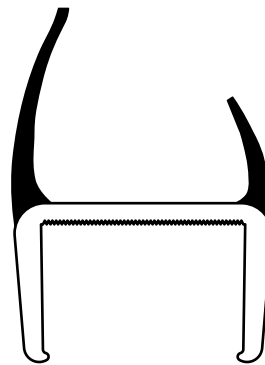
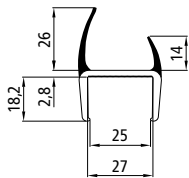
PVC rigid/soft profile
Grey bezel, length 3000 mm,
weight 1.10 kg.

108071648



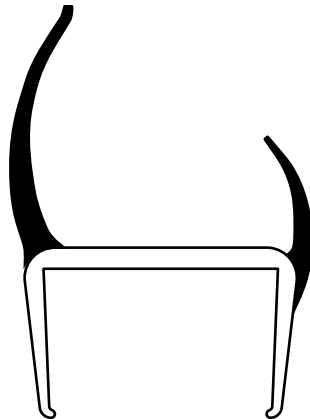
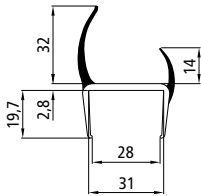
PVC rigid/soft profile
Grey bezel, length 3000 mm,
weight 0.95 kg.

108071649



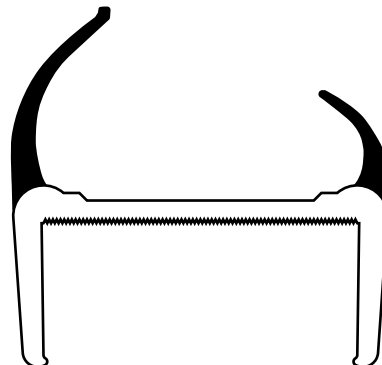
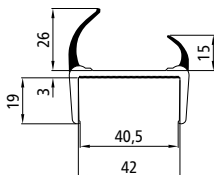
PVC rigid/soft profile
Grey bezel, length 2700 mm,
weight 1.25 kg.

108071437



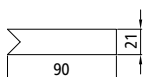
PVC rigid/soft profile
Grey bezel, length 2700 mm,
weight 1.20 kg.

108071439



PVC rigid/soft profile
Grey bezel, length 2700 mm,
weight 1.30 kg.

108071440



PVC cover strips
Black, weight 0.004 kg.

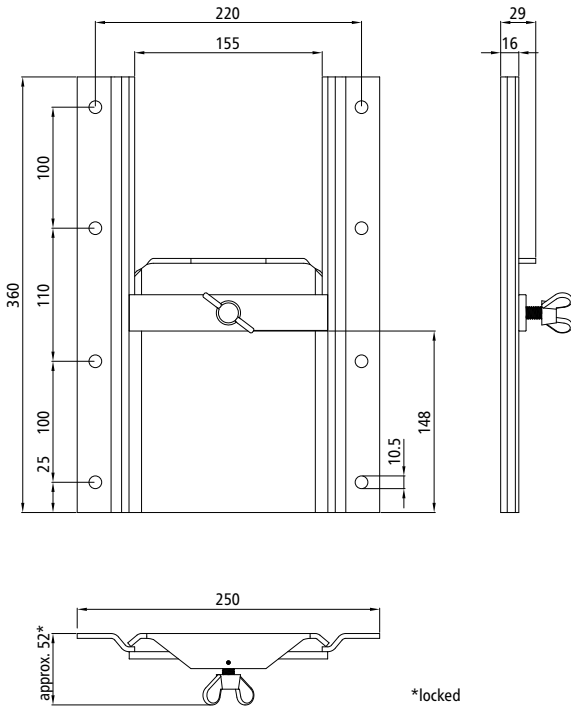
108071443

Grain slide gate

Maximum clear opening approx.
155 × 148 mm (w × h), black
painted steel sheet, weight
2.54 kg.

Also suitable for retrofitting.

215131481

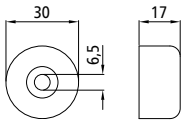


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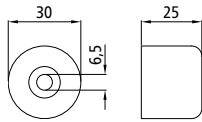




Door buffer

Pos. 1, weight 0.014 kg.

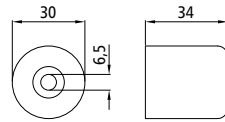
215101824



Door buffer

Pos. 2, weight 0.021 kg.

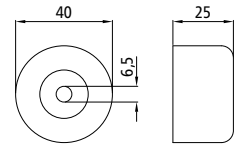
215101825



Door buffer

Pos. 3, weight 0.029 kg.

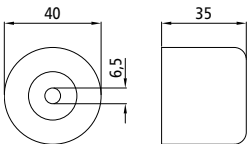
215101826



Door buffer

Pos. 4, weight 0.037 kg.

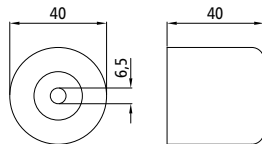
215101827



Door buffer

Pos. 5, weight 0.051 kg.

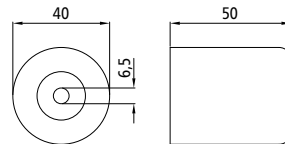
215101828



Door buffer

Pos. 6, weight 0.061 kg.

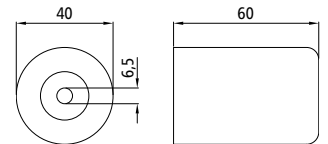
215101829



Door buffer

Pos. 7, weight 0.075 kg.

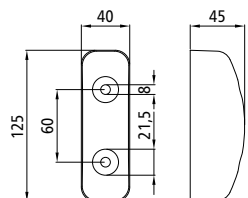
215101830



Door buffer

Pos. 8, weight 0.087 kg.

215101831

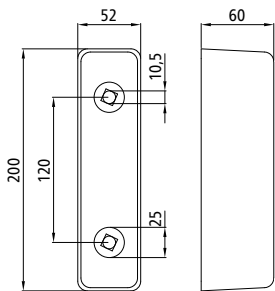
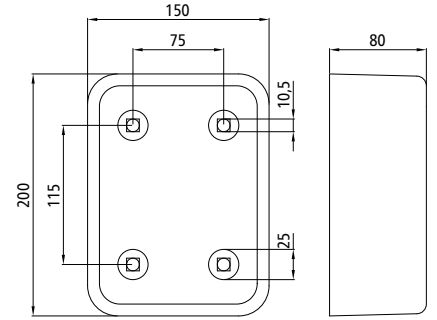


Door buffer/Ram buffer

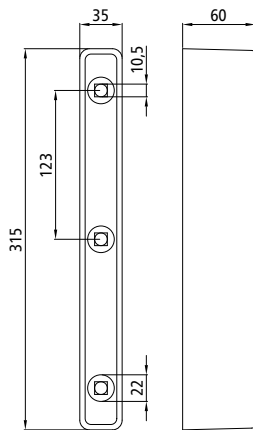
Weight 0.20 kg.

335102714

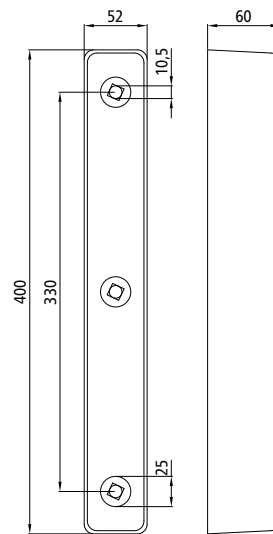
Ram buffer
Weight 2.26 kg.
335102551



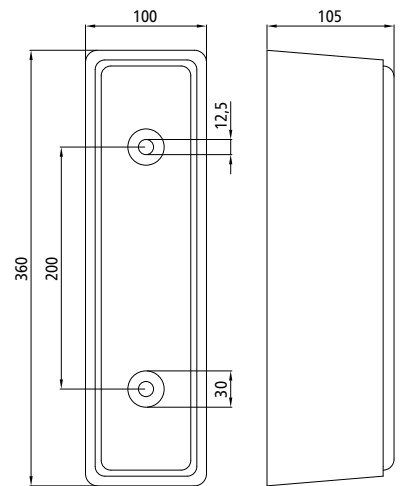
Ram buffer
Weight 0.71 kg.
335101392



Ram buffer
Weight 0.70 kg.
335101637



Ram buffer
Weight 1.35 kg.
335101391



Ram buffer
Weight 3.27 kg.
335102694



S-Line® ram buffer, horizontal

Zinc plated steel parts, weight 3.52 kg.

Hole pattern on back for different vehicle types.

335102969

S-Line® ram buffer with 2 rollers, horizontal

Not shown, zinc plated steel parts, weight 5.40 kg.

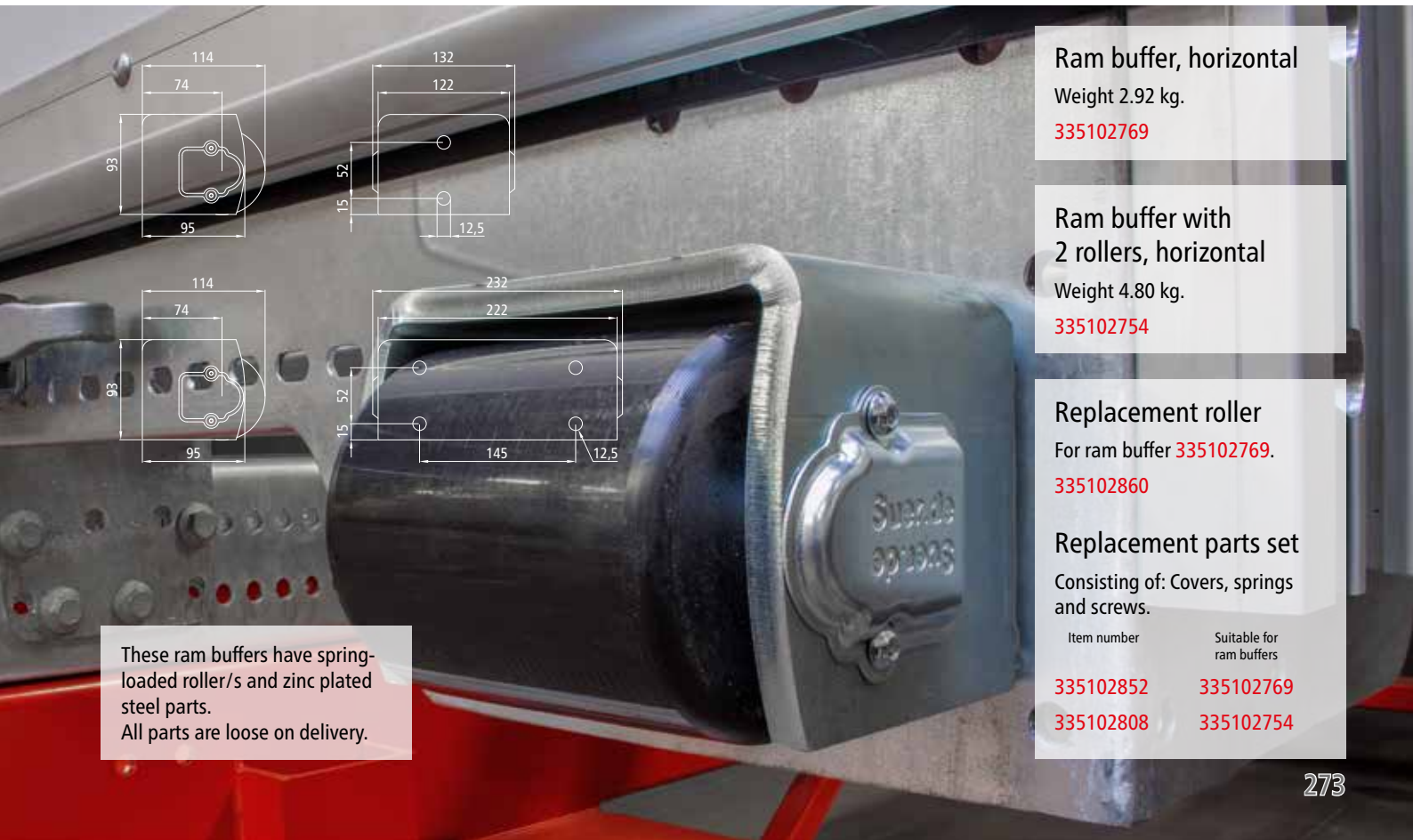
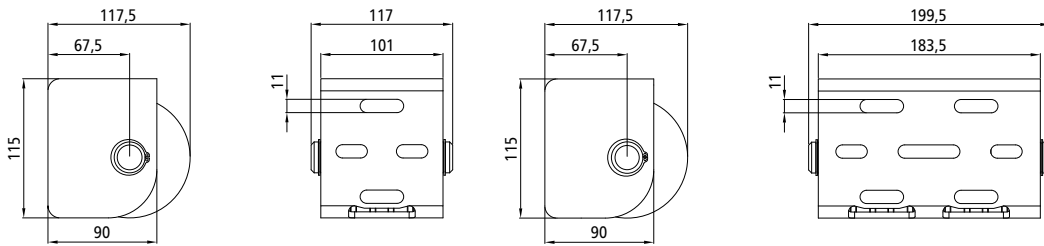
Hole pattern on back for different vehicle types.

335102971

Replacement roller

Not shown, for ram buffers **335102969** and **335102971**.

335102975



Ram buffer, horizontal

Weight 2.92 kg.

335102769

Ram buffer with 2 rollers, horizontal

Weight 4.80 kg.

335102754

Replacement roller

For ram buffer **335102769**.

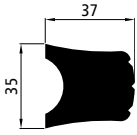
335102860

Replacement parts set

Consisting of: Covers, springs and screws.

Item number	Suitable for ram buffers
335102852	335102769
335102808	335102754

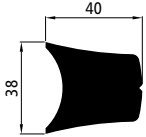
These ram buffers have spring-loaded roller/s and zinc plated steel parts. All parts are loose on delivery.



Ram guard profile

Pos. 1, PVC anthracite grey, member length 3000 mm, weight 1.35 kg/m.

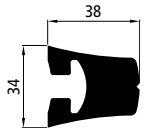
335101996



Ram guard profile

Pos. 2, PVC anthracite grey, member length 3000 mm, weight 1.39 kg/m.

335101905



Ram guard profile

Pos. 3, PVC anthracite grey, member length 3000 mm, weight 1.33 kg/m.

With nut for bolt head according to DIN 603/ISO 8677 - M8.

335102647



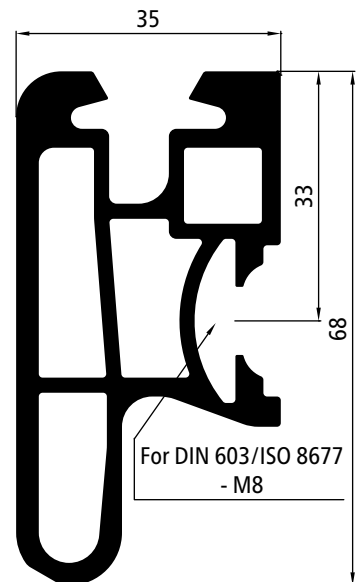
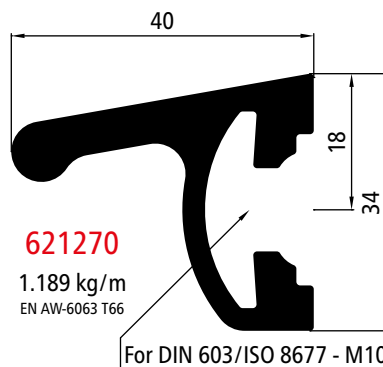
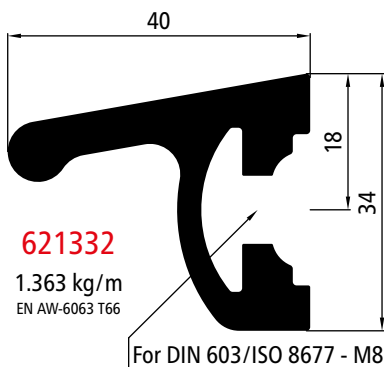
Aluminium ram guards

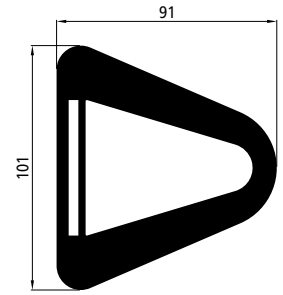
Our aluminium ram guard profiles are listed at the bottom of this double page; you can also find these in our Aluminium catalogue.

Profile **644006** can be found under profile number **644007** with integrated support for the Airline cargo containment system. The Aluminium catalogue contains further potential applications for profiles **644001**, **644003** and **644006**.

644006

2.240 kg/m
EN AW-6063 T66

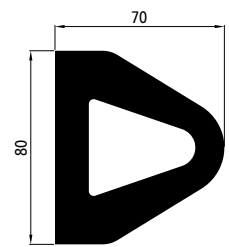




Ram guard profile

Black, length 2600 mm, weight 5.00 kg/m.

335102417



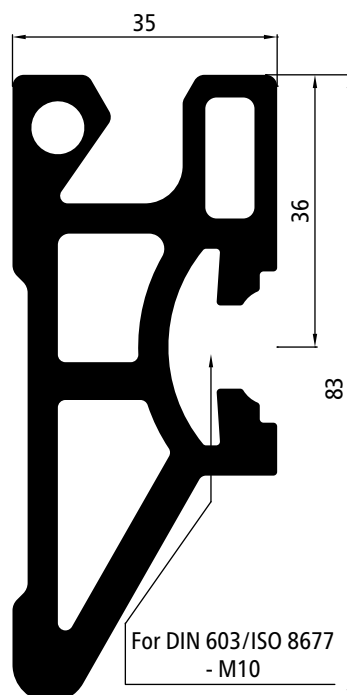
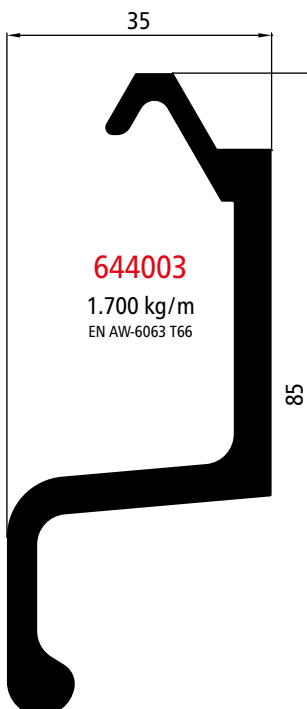
Ram guard profile

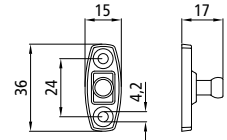
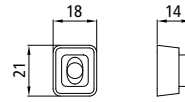
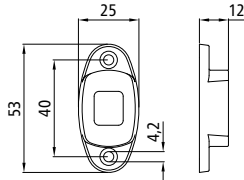
Black, length 2600 mm, weight 3.50 kg/m.

335102418

644001

3.349 kg/m
EN AW-6063 T66





Rubber holder
Aluminium, weight 0.014 kg.
108071453

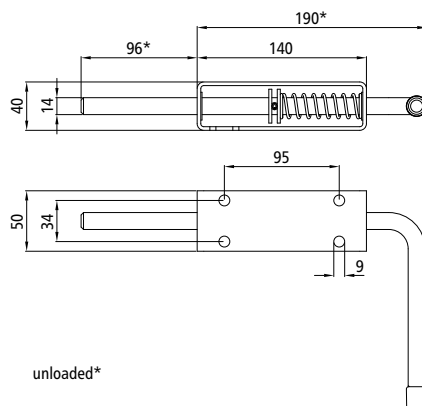
Rubber dowel
Weight 0.004 kg.
108071452

Counterholder
Nickel-plated brass studs,
weight 0.007 kg.
108071454

This small retainer is suitable for flaps and doors in the interior of the body. Please order all parts separately.

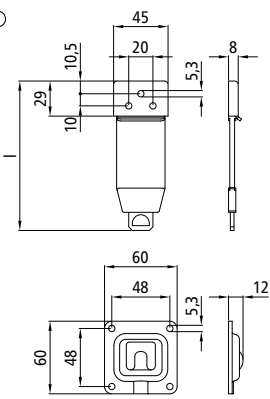


Side board retainer
Zinc plated steel, weight 0.093 kg.
For securing folded side boards with side board lift supports.
605646601



One of our most successful products in recent years:
The side board lift support 3.0 for 25 mm side boards. Whether Blueline DL or K20 poles, standard side boards or long travel fasteners: The side board lift support 3.0 can be used anywhere.
Also available preinstalled in the side boards.

①/②



①



②

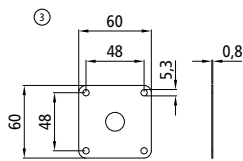


Door retainer

Pos. 1+2, stainless steel parts, polyurethane loop.

Item number	Dim. l [mm]	Weight [kg]
108071459	103.5	0.12
108071458	123.5	0.13
108071810	143.0	0.13

③



③



Packing plate

Pos. 3, stainless steel, weight 0.02 kg.

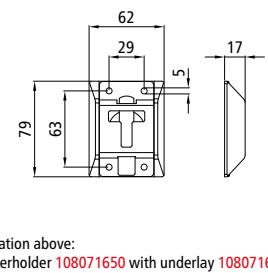
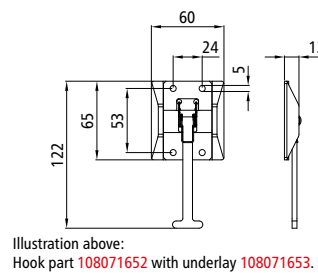
Accessories for door retainer
108071458 + -59.
108071645



Counterholder
Stainless steel, weight 0.043 kg.
108071650



Hook part
Stainless steel, weight 0.057 kg.
108071652



Underlay for counterholder
PVC, weight 0.008 kg.
108071651



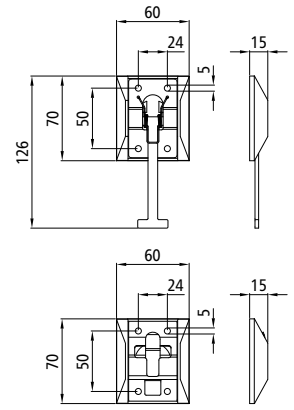
Underlay for hook part
PVC, weight 0.008 kg.
108071653

Please order all parts separately.

Door retainer

Set including plastic underlay, stainless steel parts, weight 0.096 kg.

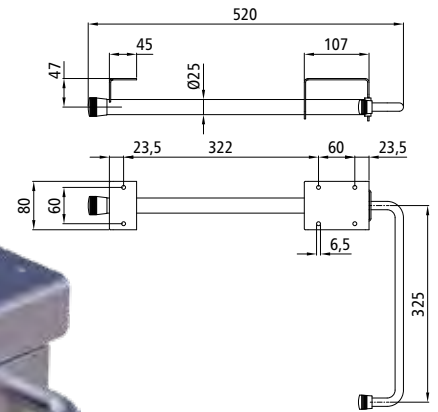
215131950



Door retainer

Steel with Dacromet zinc flake coating, weight 2.15 kg.

215131517



Rubber plug

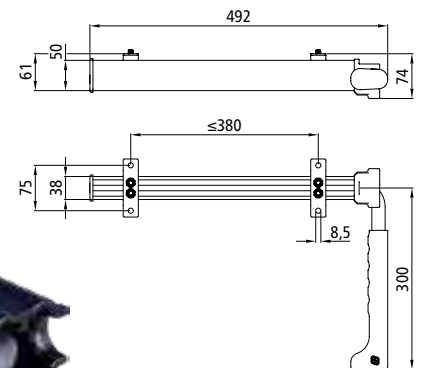
Not shown, replacement part for door retainer 215131517.

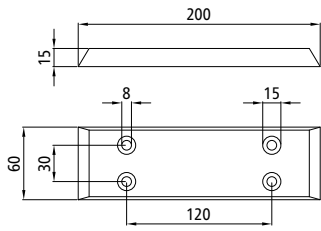
- | Item number | Version |
|-------------|---------|
| 215131649 | small |
| 215131650 | large |

S-Line® door retainer

Aluminium housing with stainless steel support arm, weight 1.75 kg.

215131959

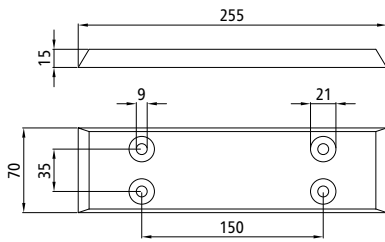




Rubber underlay

Weight 0.29 kg.

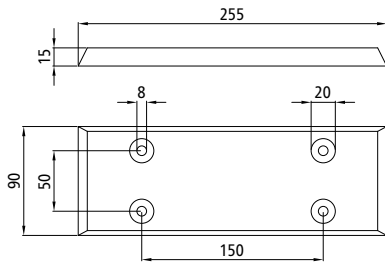
215141071



Rubber underlay

Weight 0.51 kg.

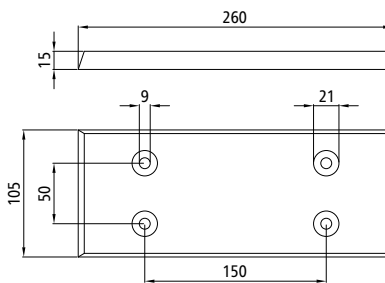
215141072



Rubber underlay

Weight 0.65 kg.

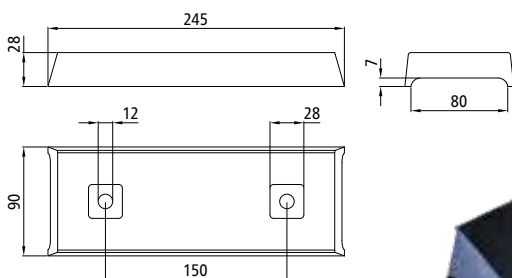
215141074



Rubber underlay

Weight 0.74 kg.

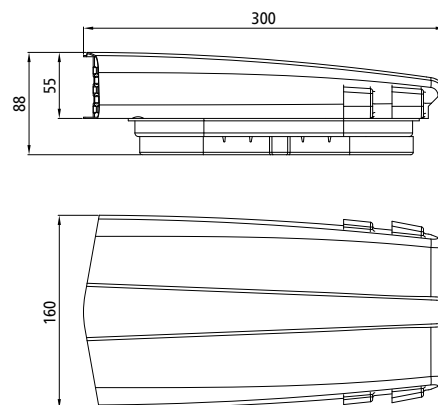
215141076



Rubber underlay

Weight 0.75 kg.

215141075



Roof vent

ABS plastic, weight 0.60 kg.

Item number	Colour
250131977	black
250131978	white

Inconspicuous roof mounting.



Two Ø 90 mm inlet and outlet channels with opening > 56 cm² per channel provide flow rates of up to 70 m³/h.

- The roof vent has no moving parts.
- Inlet and outlet channel opening > 56 cm².
- The push-and-pull effect of the roof vent generates flow rates of up to 70 m³/h at a vehicle speed of 100 km/h.
- The roof vent has an internal covering grill, which can be closed if necessary.
- The roof vent has an installation height of more than 50 mm and must be recorded on the vehicle papers for vehicle heights of less than 2 m!

Adapter

For extending the air channels on vehicles with roof linings or when installed in box bodies. Black plastic, weight 0.066 kg. Packaging unit 2 pcs., including screws for mounting on the roof vent.

250131979



Sheet metal punch

With draw bolt and 36 mm/ 1/2" box spanner for punching Ø89 mm holes, weight 3.83 kg.

250131980





**DIN/ISO AND STANDARD
PARTS**



THIMBLES & SHACKLES	284
TURNBUCKLES	285
SIMPLEX AND CARABINER HOOKS	286
SPRING CLIPS AND LINCHPINS	287
DIN SCREWS AND ACCESSORIES	288
DRILLING SCREWS	301

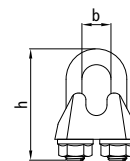
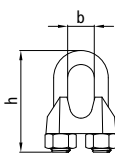
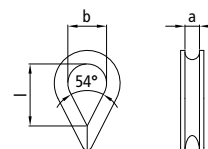
For many years now, our products have included a wide range of DIN/ISO threads connections and standard parts.

DIN screws and accessories are arranged by their old DIN numbers.

Thimbles similar to DIN 6899 Form B

Zinc plated steel, hot-dip galvanised from size 7 upwards.

Item number	Nominal size a [mm]	Dim. b [mm]	Dim. l [mm]	Weight [kg]
270151090	2.5	12	19	0.005
270151091	3.5	13	21	0.008
270151092	4	14	23	0.010
270151093	5	16	25	0.016
270151094	7	20	32	0.030
270151095	9	24	38	0.047
270151096	11	28	45	0.068
270151097	13	32	51	0.080



Tube clamps similar to DIN 741

Zinc plated steel.

Item number	Nominal size [mm]	Dim. b [mm]	Dim. h [mm]	Weight [kg]
270151101	3	4	20	0.007
270151102	5	6	24	0.015
270151103	6	8	28	0.019
270151104	8	9	34	0.032
270151105	10	11	42	0.066
270151106	11	11	44	0.072
270151107	13	14	55	0.125
270151108	14	15	57	0.140
270151110	16	16	63	0.210
270151110	19	20	75	0.308

Tube clamps according to DIN 1142

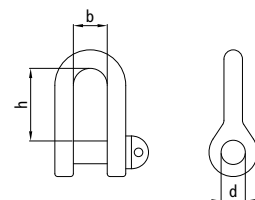
Zinc plated steel.

Item number	Nominal size [mm]	Dim. b [mm]	Dim. h [mm]	Weight [kg]
270151188	5	7	25	0.021
270151189	6.5	8	32	0.040
270151190	8	10	41	0.082
270151191	10	12	46	0.092
270151192	13	15	64	0.275
270151193	16	16	76	0.430
270151194	19	19	83	0.490
270151195	22	22	96	0.680
270151196	26	26	111	1.170

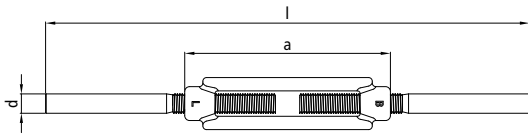
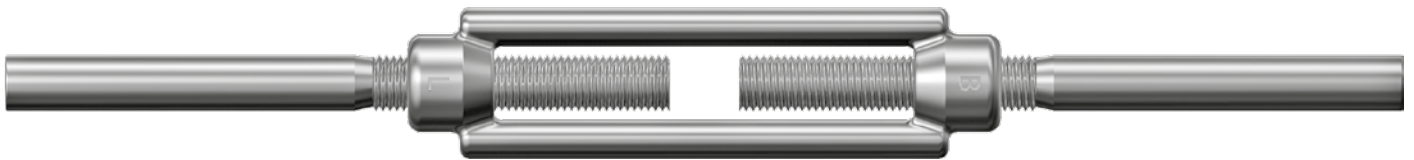
Shackle according to DIN 82101, Form A

With threaded bolts Form G 4, zinc plated steel.

Item number	Dim. d [mm]	Dim. b [mm]	Dim. h [mm]	Perm. load [kN]	Weight [kg]
215131074	6	8	18	1.6	0.024
215131075	8	11	24	2.5	0.045
215131076	10	14	30	4.0	0.090
215131077	12	17	36	6.0	0.170
215131078	16	21	49	10.0	0.360
215131079	20	27	61	16.0	0.750
215131080	22	30	67	20.0	1.000
215131081	24	33	73	25.0	1.320
215131082	27	38	83.5	30.0	1.800



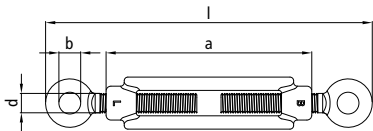
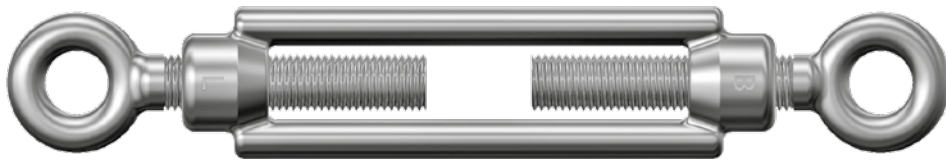
DIN/ISO and standard parts in this chapter are only supplied in packaging units. Find out which VPE (packaging unit) an item is currently available in from your sales consultant.



Turnbuckle according to DIN 1480, Form D

With 2 welding ends, zinc plated steel.

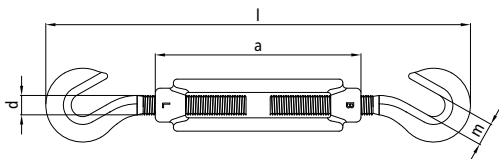
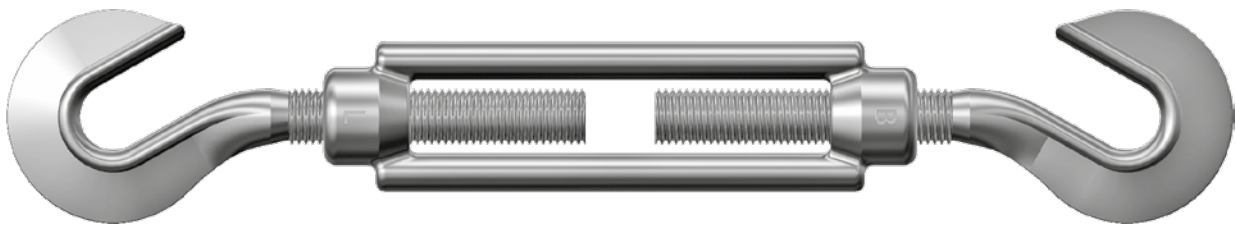
Item number	Dim. d [mm]	Dim. a [mm]	Dim. l [mm]	Weight [kg]
215131451	M 8	110	240+75	0.14
215131452	M 10	125	300+85	0.28
215131453	M 12	125	300+80	0.40
215131454	M 16	170	400+110	0.89
215131455	M 20	200	440+130	1.60
215131456	M 24	255	520+170	2.82



Turnbuckle according to DIN 1480, Form C

With 2 eyelets, zinc plated steel.

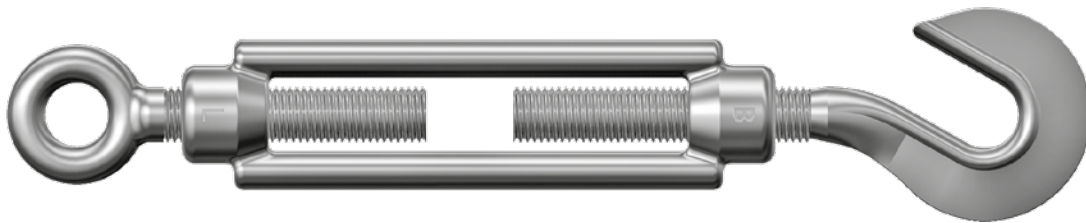
Item number	Dim. d [mm]	Dim. a [mm]	Dim. b [mm]	Dim. l [mm]	Weight [kg]
215131464	M 6	110	9	167+80	0.09
215131465	M 8	110	10	179+75	0.16
215131466	M 10	125	14	210+85	0.27
215131467	M 12	125	16	230+80	0.41
215131468	M 16	170	22	330+110	1.00
215131469	M 20	200	24	330+130	1.54
215131470	M 24	255	27	420+170	2.70



Turnbuckle according to DIN 1480, Form B

With 2 hooks, zinc plated steel.

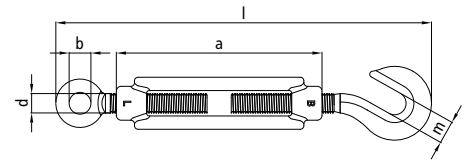
Item number	Dim. d [mm]	Dim. a [mm]	Dim. m [mm]	Dim. l [mm]	Weight [kg]
215131472	M 8	110	11	195+75	0.17
215131473	M 10	125	13.5	230+85	0.30
215131474	M 12	125	15.5	250+80	0.44
215131475	M 16	170	19	320+110	0.95
215131476	M 20	200	20.5	400+130	1.75



Turnbuckle according to DIN 1480, Form A

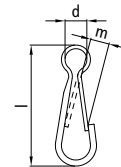
With 2 hooks, zinc plated steel.

Item number	Dim. d [mm]	Dim. a [mm]	Dim. b [mm]	Dim. l [mm]	Dim. m [mm]	Weight [kg]
215131457	M6	110	9	172+80	8.5	0.10
215131458	M8	110	10	182+75	10	0.17
215131459	M10	125	14	213+85	13.5	0.29
215131460	M12	125	16	238+80	15.5	0.43
215131461	M16	170	22	320+110	19	0.92
215131462	M20	200	24	367+130	20.5	1.63
215131463	M24	255	27	447+170	26	3.00



Simplex hook according to DIN 5287, Form A

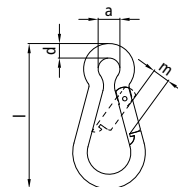
Item number	Dim. d [mm]	Dim. l [mm]	Dim. m [mm]	Version	Weight [kg]
215131429	7	40	5.5	nickel-plated	0.004
215131431	9	50	6.5	nickel-plated	0.007
215131432	10	60	7.5	nickel-plated	0.012
215131830	10	60	7.5	zinc plated	0.012



Carabiner hook according to DIN 5299, Form C

Zinc plated steel.

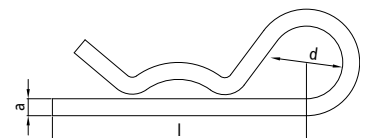
Item number	Dim. d [mm]	Dim. l [mm]	Dim. a [mm]	Dim. m [mm]	Weight [kg]
215131689	5	50	8	7	0.013
215131420	6	60	9	8	0.027
215131421	7	70	10	8	0.043
215131422	8	80	12	10	0.064
215131423	10	100	15	11	0.126
215131424	11	120	18	16	0.194
215131425	12	140	20	19	0.260

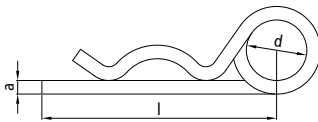


Spring clip, simple

Zinc plated steel.

Item number	Dim. a [mm]	Dim. d [mm]	Dim. l [mm]	Weight [kg]
215141007	3	16	60	0.009
215141008	4	20	60	0.016
215141009	5	24	87	0.034
215141010	6	30	105	0.062
215141011	7	30	105	0.082
215141012	8	29	110	0.114

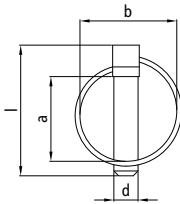




Spring clip, double

Zinc plated steel.

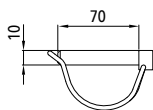
Item number	Dim. a [mm]	Dim. d [mm]	Dim. l [mm]	Weight [kg]
215141013	3	16	64	0.012
215141014	4	23	80	0.030
215141015	5	26	90	0.053
215141016	6	30	120	0.093
215141017	7	30	133	0.135
215141018	8	30	130	0.176



Linchpins

Zinc plated steel.

Item number	Dim. d [mm]	Dim. a [mm]	Dim. b [mm]	Dim. l [mm]	Weight [kg]
215141001	4.5	30	40	48	0.013
215141002	6.0	36	47	52	0.024
215141003	8.0	36	48	53	0.029
215141004	9.5	34	49	54	0.038
215141005	10.0	36	49	54	0.039
215141006	11.0	35	47	54	0,046



Pipe lynchpin

Stainless steel, weight 0.07 kg.

215141922



Eyebolt with ring

Ring $\varnothing 10 \times 50$ mm, bolt M 10 \times 55, zinc plated steel, weight 0.17 kg.

215131380



Plain washers according to DIN 125-A/ISO 7089

No chamfer, hardness class 104 HV, zinc plated steel.

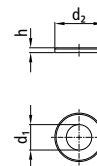
Item number	Dim. d ₁ [mm]	Connection thread	Dim. d ₂ [mm]	Dim. h [mm]
965987030	5.3	M5	10	1.0
965987031	6.4	M6	12	1.6
965987032	8.4	M8	16	1.6
965987033	10.5	M10	20	2.0
965987034	13.0	M12	24	2.5
965987035	15.0	M14	28	2.5
965987036	17.0	M16	30	3.0
965987037	21.0	M20	37	3.0
965987038	25.0	M24	44	4.0

DIN/ISO and standard parts in this chapter are only supplied in packaging units. Find out which VPE (packaging unit) an item is currently available in from your sales consultant.

Plain washers according to DIN 125- B/ISO 7089

With chamfer, polyamide.

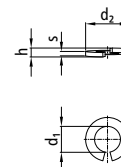
Item number	Dim. d ₁ [mm]	Connection thread [mm]	Dim. d ₂ [mm]	Dim. h [mm]
500987161	13	M 12	24	2.5



Split washers according to DIN 127-A

Zinc plated steel.

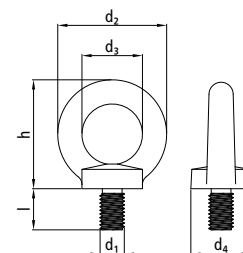
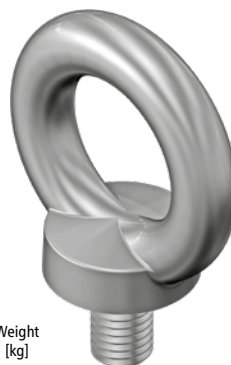
Item number	Size	Connection thread [mm]	Dim. d ₁ [mm]	Dim. d ₂ [mm]	Dim. h [mm]	Dim. s [mm]
965987330	A 5	M 5	5.1	9.2	3.2	1.2
965987331	A 6	M 6	6.1	11.8	4.2	1.6
965987332	A 8	M 8	8.1	14.8	5.4	2.0
965987333	A 10	M 10	10.2	18.1	5.9	2.2
965987334	A 12	M 12	12.2	21.1	6.8	2.5
965987335	A 14	M 14	14.2	24.1	8.0	3.0
965987336	A 16	M 16	16.2	27.4	9.2	3.5
965987337	A 20	M 20	20.2	33.6	10.4	4.0
965987338	A 24	M 24	24.5	40.0	13.0	5.0



Ring bolts according to DIN 580/ISO 3266

Zinc plated steel.

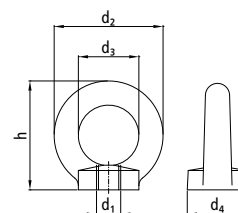
Item number	Dim. d ₁ [mm]	Dim. d ₂ [mm]	Dim. d ₃ [mm]	Dim. d ₄ [mm]	Dim. l [mm]	Dim. h [mm]	Perm. load [daN]	Weight [kg]
971963072	M 10	45	25	25	17.0	45	230	0.11
971963073	M 12	54	30	30	20.5	53	340	0.18
971963075	M 16	63	35	35	27.0	62	700	0.28

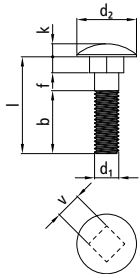


Ring bolts according to DIN 582/ISO 3266

Zinc plated steel.

Item number	Dim. d ₁ [mm]	Dim. d ₂ [mm]	Dim. d ₃ [mm]	Dim. d ₄ [mm]	Dim. h [mm]	Perm. load [daN]	Weight [kg]
971963056	M 10	45	25	25	45	230	0.09
971963057	M 12	54	30	30	53	340	0.16
971963059	M 16	63	35	35	62	700	0.24





Roundhead screws with square neck according to DIN 603

Strength class 4.6, zinc plated steel, with hex nut.

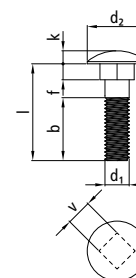
Item number	Dim. $d_1 \times l$ [mm]	Dim. d_2 [mm]	Dim. v [mm]	Dim. w [mm]	Dim. f [mm]	Dim. k [mm]
981961021	M6×20	16.55	6.48	18	4.60	3.88
981961022	M6×25	16.55	6.48	18	4.60	3.88
981961023	M6×30	16.55	6.48	18	4.60	3.88
981961024	M6×35	16.55	6.48	18	4.60	3.88
981961025	M6×40	16.55	6.48	18	4.60	3.88
981961026	M6×45	16.55	6.48	18	4.60	3.88
981961027	M6×50	16.55	6.48	18	4.60	3.88
981961028	M6×55	16.55	6.48	18	4.60	3.88
981961029	M6×60	16.55	6.48	18	4.60	3.88
981961030	M6×65	16.55	6.48	18	4.60	3.88
981961031	M6×70	16.55	6.48	18	4.60	3.88
981961032	M6×80	16.55	6.48	18	4.60	3.88
981961033	M6×90	16.55	6.48	18	4.60	3.88
981961034	M6×100	16.55	6.48	18	4.60	3.88
981961035	M6×110	16.55	6.48	18	4.60	3.88
981961036	M6×120	16.55	6.48	18	4.60	3.88
981961041	M8×20	20.65	8.58	22	5.60	4.88
981961042	M8×25	20.65	8.58	22	5.60	4.88
981961043	M8×30	20.65	8.58	22	5.60	4.88
981961044	M8×35	20.65	8.58	22	5.60	4.88
981961045	M8×40	20.65	8.58	22	5.60	4.88
981961046	M8×45	20.65	8.58	22	5.60	4.88
981961047	M8×50	20.65	8.58	22	5.60	4.88
981961048	M8×55	20.65	8.58	22	5.60	4.88
981961049	M8×60	20.65	8.58	22	5.60	4.88
981961050	M8×65	20.65	8.58	22	5.60	4.88
981961051	M8×70	20.65	8.58	22	5.60	4.88
981961052	M8×80	20.65	8.58	22	5.60	4.88
981960941	M8×90	20.65	8.58	22	5.60	4.88
981960942	M8×100	20.65	8.58	22	5.60	4.88
981960743	M8×110	20.65	8.58	22	5.60	4.88
981960744	M8×120	20.65	8.58	22	5.60	4.88
981961053	M10×25	24.65	10.58	26	6.60	5.38
981961054	M10×30	24.65	10.58	26	6.60	5.38
981961056	M10×40	24.65	10.58	26	6.60	5.38
981961058	M10×50	24.65	10.58	26	6.60	5.38
981961059	M10×60	24.65	10.58	26	6.60	5.38
981961060	M10×70	24.65	10.58	26	6.60	5.38
981961061	M10×80	24.65	10.58	26	6.60	5.38
981961065	M12×30	30.65	12.70	30	8.75	6.95
981961066	M12×35	30.65	12.70	30	8.75	6.95
981961067	M12×40	30.65	12.70	30	8.75	6.95

DIN/ISO and standard parts in this chapter are only supplied in packaging units. Find out which VPE (packaging unit) an item is currently available in from your sales consultant.

Roundhead screws with square neck according to DIN 603

Strength class 8.8, zinc plated steel, with hex nut.

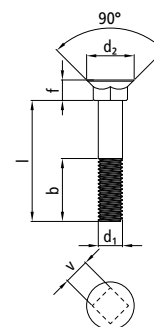
Item number	Dim. $d_1 \times l$ [mm]	Dim. d_2 [mm]	Dim. v [mm]	Dim. b [mm]	Dim. f [mm]	Dim. k [mm]
981961079	M 8 × 35	20.65	8.58	22	5.60	4.88
981961080	M 10 × 35	24.65	10.58	26	6.60	5.38



Countersunk screws/plough bolts according to DIN 608

Strength class 8.8, black steel, with hex nut.

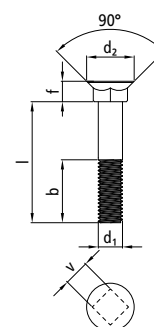
Item number	Dim. $d_1 \times l$ [mm]	Dim. d_2 [mm]	Dim. v [mm]	Dim. b [mm]	Dim. f [mm]
969961252	M 10 × 35	19.65	10.58	25	8.45
969961257	M 12 × 30	24.65	12.70	30	11.05
969961258	M 12 × 35	24.65	12.70	30	11.05



Countersunk screws/plough bolts according to DIN 608

Strength class 10.9, black steel, with hex nut.

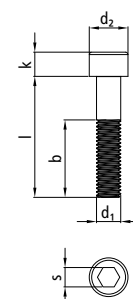
Item number	Dim. $d_1 \times l$ [mm]	Dim. d_2 [mm]	Dim. v [mm]	Dim. b [mm]	Dim. f [mm]
969961276	M 12 × 35	24.65	12.70	30	11.05
969961277	M 12 × 40	24.65	12.70	30	11.05
969961279	M 12 × 50	24.65	12.70	30	11.05
969961280	M 12 × 60	24.65	12.70	30	11.05
969961283	M 12 × 65	24.65	12.70	30	11.05
969961281	M 12 × 70	24.65	12.70	30	11.05
969961282	M 12 × 80	24.65	12.70	30	11.05



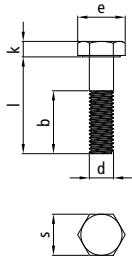
Socket head screw according to DIN 912/ISO 4762

Strength class 8.8, zinc plated steel.

Item number	Dim. $d_1 \times l$ [mm]	Dim. d_2 [mm]	Dim. s [mm]	Dim. k [mm]	Dim. b [mm]
962975035	M 6 × 16	10	5	6	--
962974839	M 6 × 25	10	5	6	--
962974840	M 6 × 30	10	5	6	--
605647906	M 10 × 25	16	8	10	--
605647005	M 10 × 40	16	8	10	32
605647006	M 10 × 50	16	8	10	32



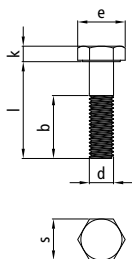
DIN/ISO and standard parts in this chapter are only supplied in packaging units. Find out which VPE (packaging unit) an item is currently available in from your sales consultant.



Hex bolt with shaft according to DIN 931/ DIN-EN-ISO 4014

Strength class 8.8, raw steel.

Item number	Dim. d x l [mm]	Dim. s [mm]	Dim. e [mm]	Dim. k [mm]	Dim. b [mm]
960975365	M20 x 180	30	33.53	12.5	52
960975366	M20 x 200	30	33.53	12.5	52
960975367	M20 x 220	30	33.53	12.5	65
960975368	M20 x 240	30	33.53	12.5	65
960975369	M20 x 260	30	33.53	12.5	65
960975370	M20 x 280	30	33.53	12.5	65
960975530	M20 x 300	30	33.53	12.5	65
960975531	M20 x 320	30	33.53	12.5	65
960975532	M20 x 340	30	33.53	12.5	65
960975534	M20 x 360	30	33.53	12.5	65
960975535	M20 x 380	30	33.53	12.5	65
960975440	M24 x 175	36	39.98	15.0	35
960975417	M24 x 180	36	39.98	15.0	60
960975418	M24 x 200	36	39.98	15.0	60
960975419	M24 x 220	36	39.98	15.0	73
960975420	M24 x 240	36	39.98	15.0	73
960975550	M24 x 260	36	39.98	15.0	73
960975551	M24 x 280	36	39.98	15.0	73
960975552	M24 x 300	36	39.98	15.0	73
960975538	M24 x 320	36	39.98	15.0	73
960975540	M24 x 340	36	39.98	15.0	73
960975542	M24 x 360	36	39.98	15.0	73
960975544	M24 x 380	36	39.98	15.0	73
960975545	M24 x 400	36	39.98	15.0	73
960975546	M24 x 420	36	39.98	15.0	73
960975547	M24 x 440	36	39.98	15.0	73
960975548	M24 x 460	36	39.98	15.0	73
960975549	M24 x 480	36	39.98	15.0	73



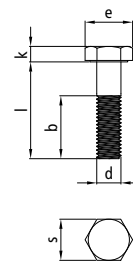
Hex bolt with shaft according to DIN 931/ DIN-EN-ISO 4014

Strength class 8.8, zinc plated steel.

Item number	Dim. d x l [mm]	Dim. s [mm]	Dim. e [mm]	Dim. k [mm]	Dim. b [mm]
960970300	M6 x 35	10	11.05	4.0	18
960970301	M6 x 40	10	11.05	4.0	18
960970303	M6 x 50	10	11.05	4.0	18
960970304	M6 x 60	10	11.05	4.0	18
960970306	M6 x 70	10	11.05	4.0	18
960970308	M6 x 80	10	11.05	4.0	18
960970310	M8 x 40	13	14.38	5.3	22
960970311	M8 x 45	13	14.38	5.3	22
960970312	M8 x 50	13	14.38	5.3	22
960970314	M8 x 60	13	14.38	5.3	22
960970316	M8 x 70	13	14.38	5.3	22

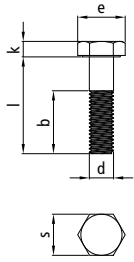
Hex bolt with shaft according to DIN 931/ DIN-EN-ISO 4014

Strength class 8.8, zinc plated steel.



Item number	Dim. d×l [mm]	Dim. s [mm]	Dim. e [mm]	Dim. k [mm]	Dim. b [mm]
960970318	M 8×80	13	14.38	5.3	22
960970320	M 8×90	13	14.38	5.3	22
960970449	M 8×100	13	14.38	5.3	22
960970450	M 8×110	13	14.38	5.3	22
960970451	M 8×120	13	14.38	5.3	22
960970322	M 10×45	17	18.90	6.4	26
960970323	M 10×50	17	18.90	6.4	26
960970324	M 10×55	17	18.90	6.4	26
960970325	M 10×60	17	18.90	6.4	26
960970327	M 10×70	17	18.90	6.4	26
960970329	M 10×80	17	18.90	6.4	26
960970332	M 10×90	17	18.90	6.4	26
960970331	M 10×100	17	18.90	6.4	26
960970333	M 10×110	17	18.90	6.4	26
960970334	M 10×120	17	18.90	6.4	26
960970455	M 10×130	17	18.90	6.4	32
960970456	M 10×140	17	18.90	6.4	32
960970335	M 12×45	19	21.10	7.5	30
960970336	M 12×50	19	21.10	7.5	30
960970338	M 12×60	19	21.10	7.5	30
960970339	M 12×65	19	21.10	7.5	30
960970340	M 12×70	19	21.10	7.5	30
960970342	M 12×80	19	21.10	7.5	30
960970343	M 12×90	19	21.10	7.5	30
960970344	M 12×100	19	21.10	7.5	30
960970345	M 12×110	19	21.10	7.5	30
960970346	M 12×120	19	21.10	7.5	30
960970347	M 12×130	19	21.10	7.5	36
960970348	M 12×140	19	21.10	7.5	36
960970350	M 14×50	22	24.49	8.8	34
960970352	M 14×60	22	24.49	8.8	34
960970354	M 14×70	22	24.49	8.8	34
960970356	M 14×80	22	24.49	8.8	34
960970357	M 14×90	22	24.49	8.8	34
960970359	M 14×100	22	24.49	8.8	34
960970365	M 16×55	24	26.75	10.0	38
960970366	M 16×60	24	26.75	10.0	38
960970368	M 16×70	24	26.75	10.0	38
960970370	M 16×80	24	26.75	10.0	38
960970372	M 16×90	24	26.75	10.0	38
960970373	M 16×100	24	26.75	10.0	38
960970374	M 16×110	24	26.75	10.0	38
960970375	M 16×120	24	26.75	10.0	38
960970376	M 16×130	24	26.75	10.0	44
960970377	M 16×140	24	26.75	10.0	44

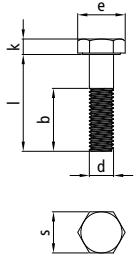
DIN/ISO and standard parts in this chapter are only supplied in packaging units. Find out which VPE (packaging unit) an item is currently available in from your sales consultant.



Hex bolt with shaft according to DIN 931/ DIN-EN-ISO 4014

Strength class 8.8, zinc plated steel.

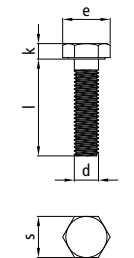
Item number	Dim. d × l [mm]	Dim. s [mm]	Dim. e [mm]	Dim. k [mm]	Dim. b [mm]
960970378	M 16 × 150	24	26.75	10.0	44
960970379	M 16 × 160	24	26.75	10.0	44
960970407	M 20 × 100	30	33.53	12.5	46



Hex bolt with shaft according to DIN 931/ DIN-EN-ISO 4014

Strength class 10.9, zinc plated steel.

Item number	Dim. d × l [mm]	Dim. s [mm]	Dim. e [mm]	Dim. k [mm]	Dim. b [mm]
960971338	M 12 × 60	19	21.10	7.5	30



Hex bolts according to DIN 933/DIN-EN-ISO 4017

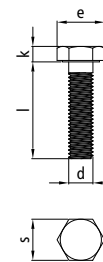
Strength class 8.8, zinc plated steel.

Item number	Dim. d × l [mm]	Dim. s [mm]	Dim. e [mm]	Dim. k [mm]
960970001	M 6 × 16	10	11.05	4.0
960970002	M 6 × 20	10	11.05	4.0
960970003	M 6 × 25	10	11.05	4.0
960970004	M 6 × 30	10	11.05	4.0
960970052	M 6 × 35	10	11.05	4.0
960970005	M 8 × 16	13	14.38	5.3
960970006	M 8 × 20	13	14.38	5.3
960970007	M 8 × 25	13	14.38	5.3
960970008	M 8 × 30	13	14.38	5.3
960970009	M 8 × 35	13	14.38	5.3
960970011	M 8 × 45	13	14.38	5.3
960970013	M 10 × 20	17	18.90	6.4
960970014	M 10 × 25	17	18.90	6.4
960970015	M 10 × 30	17	18.90	6.4
960970016	M 10 × 35	17	18.90	6.4
960970017	M 10 × 40	17	18.90	6.4
960970138	M 12 × 20	19	21.10	7.5
960970022	M 12 × 25	19	21.10	7.5
960970023	M 12 × 30	19	21.10	7.5
960970024	M 12 × 35	19	21.10	7.5
960970025	M 12 × 40	19	21.10	7.5
960970026	M 12 × 45	19	21.10	7.5

Hex bolts according to DIN 933/DIN-EN-ISO 4017

Strength class 8.8, zinc plated steel.

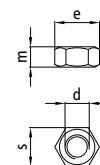
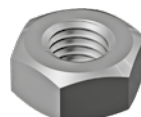
Item number	Dim. d x l [mm]	Dim. s [mm]	Dim. e [mm]	Dim. k [mm]
960970030	M 14 x 30	22	24.49	8.8
960970031	M 14 x 35	22	24.49	8.8
960970032	M 14 x 40	22	24.49	8.8
960970033	M 14 x 45	22	24.49	8.8
960970038	M 16 x 30	24	26.75	10.0
960970039	M 16 x 35	24	26.75	10.0
960970040	M 16 x 40	24	26.75	10.0
960970041	M 16 x 45	24	26.75	10.0
960970042	M 16 x 50	24	26.75	10.0
960970184	M 20 x 40	30	33.53	12.5
960970185	M 20 x 50	30	33.53	12.5
960970186	M 20 x 60	30	33.53	12.5



Hex nuts according to DIN 934/DIN EN ISO 4032

Strength class 8, zinc plated steel.

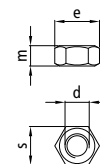
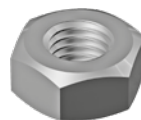
Item number	Dim. d [mm]	Dim. s [mm]	Dim. e [mm]	Dim. m [mm]
964970501	M 5	8.0	8.79	4.0
964970502	M 6	10.0	11.05	5.0
964970503	M 8	13.0	14.38	6.5
964970504	M 10	17.0	18.90	8.0
964970505	M 12	19.0	21.10	10.0
964970506	M 14	22.0	24.49	11.0
964970507	M 16	24.0	26.75	13.0
964970508	M 20	30.0	32.95	16.0
964970509	M 24	36.0	39.55	19.0

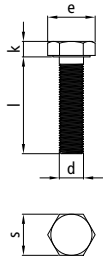


Hex nuts with left-hand thread according to DIN 934/DIN-EN-ISO 4032

Strength class 8, zinc plated steel.

Item number	Dim. d [mm]	Dim. s [mm]	Dim. e [mm]	Dim. m [mm]
964970523	M 8	13.0	14.38	6.5

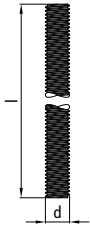




Hex bolts with fine thread according to DIN 961/ DIN-EN-ISO 8676

Strength class 10.9, zinc plated steel.

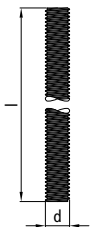
Item number	Dim. d x l [mm]	Dim. s [mm]	Dim. e [mm]	Dim. k [mm]
961975804	M 10 x 1 x 30	17	18.90	6.4
961975805	M 10 x 1 x 35	17	18.90	6.4



Threaded rods according to DIN 975

Strength class 4.6, zinc plated steel.

Item number	Dim. d x l [mm]
966960024	M 6 x 1000
966960025	M 8 x 1000
966960026	M 10 x 1000
966960027	M 12 x 1000
966960028	M 14 x 1000
966960029	M 16 x 1000
966960031	M 20 x 1000
966960032	M 22 x 1000
966960033	M 24 x 1000



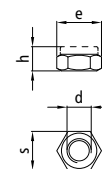
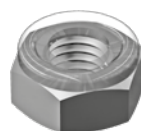
Threaded rods according to DIN 976

Strength class 8.8, zinc plated steel.

Item number	Dim. d x l [mm]
966960060	M 6 x 1000
966960061	M 8 x 1000
966960062	M 10 x 1000
966960063	M 12 x 1000
966960064	M 14 x 1000
966960065	M 16 x 1000
966960066	M 18 x 1000
966960067	M 20 x 1000
966960069	M 22 x 1000
966960068	M 24 x 1000

Hex nuts with clamping element according to DIN 980/DIN-EN-ISO 7042

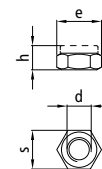
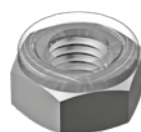
Strength class 8, V-shaped, zinc plated steel.
Clamping element at manufacturer's choice.



Item number	Dim. d [mm]	Dim. s [mm]	Dim. e [mm]	Dim. h [mm]
964976800	M 6	10	11.05	6.6
964976801	M 8	13	14.38	8.8
964976802	M 10	17	18.90	11.0
964976803	M 12	19	21.10	13.2
964976804	M 14	22	24.49	15.4
964976805	M 16	24	26.75	17.6
964976806	M 20	30	32.95	22.0
964976807	M 24	36	39.55	26.4

Hex nuts with clamping element according to DIN 980/DIN-EN-ISO 7042

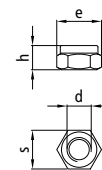
Strength class 10, zinc plated steel.
Clamping element at manufacturer's choice.



Item number	Dim. d [mm]	Dim. s [mm]	Dim. e [mm]	Dim. h [mm]
964976832	M 10	17	18.90	11.0
964976833	M 12	19	21.10	13.2

Hex nuts with clamping element according to DIN 985/DIN-EN-ISO 10511

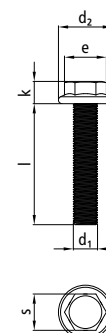
Strength class 8, low shape, zinc plated steel.
Plastic ring clamping element.



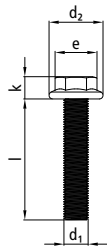
Item number	Dim. d [mm]	Dim. s [mm]	Dim. e [mm]	Dim. h [mm]
964976752	M 5	8	8.79	5
964976753	M 6	10	11.05	6
964976754	M 8	13	14.38	8
964976755	M 10	17	18.90	10
964976756	M 12	19	21.10	12
964976757	M 14	22	24.49	14
964976758	M 16	24	26.75	16
964976760	M 20	30	33.53	20
964976762	M 24	36	39.98	24
964976763	M 30	46	50.85	30

Hex bolts with flange according to DIN 6921

Full thread, strength class 8.8, zinc plated steel.



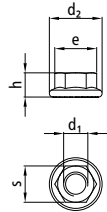
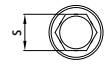
Item number	Dim. d ₁ × l [mm]	Dim. d ₂ [mm]	Dim. s [mm]	Dim. e [mm]	Dim. k [mm]
605647101	M 10 × 30	22.3	15	17.3	9.2
605647103	M 12 × 30	26.6	16	18.9	11.5



Hex bolts with flange according to DIN 6921

Full thread, strength class 10.9, zinc plated steel.

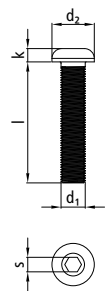
Item number	Dim. $d_1 \times l$ [mm]	Dim. d_2 [mm]	Dim. s [mm]	Dim. e [mm]	Dim. k [mm]
605647707	M 14 × 30	30.5	18	20.78	12.8



Hex nuts with flange similar to DIN 6923

With locking teeth, strength class 8, zinc plated steel.

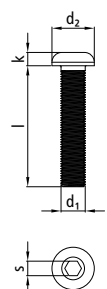
Item number	Dim. d_1 [mm]	Dim. d_2 [mm]	Dim. s [mm]	Dim. e [mm]	Dim. h [mm]
605647000	M 8	17.9	13	14.38	8
605647001	M 10	21.8	15	16.64	10
605647002	M 12	26.0	18	20.03	12
605647003	M 14	29.9	21	24.25	14



Oval-head screws according to ISO 7380

Strength class 10.9, zinc plated steel.

Item number	Dim. $d_1 \times l$ [mm]	Dim. d_2 [mm]	Dim. s [mm]	Dim. k [mm]
981961012	M 6 × 16	10.5	4	3.3
981961015	M 8 × 20	14	5	4.4



Oval-head screws according to ISO 7380

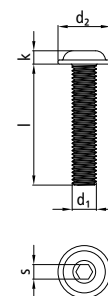
Stainless steel A2-070, raw steel.

Item number	Dim. $d_1 \times l$ [mm]	Dim. d_2 [mm]	Dim. s [mm]	Dim. k [mm]
605647700	M 8 × 30	14.0	5	4.4
605647701	M 10 × 30	17.5	6	5.5
605647702	M 12 × 40	21.0	8	6.6

Oval-head screw with flange similar to ISO 7380

Strength class 10.9, zinc plated steel.

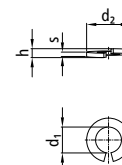
Item number	Dim. $d_1 \times l$ [mm]	Dim. d_2 [mm]	Dim. s [mm]	Dim. k [mm]
605645070	M 8 × 25	17.8	5	4.4
605645071	M 8 × 40	17.8	5	4.4
605645062	M 10 × 30	21.9	6	5.5
605645063	M 12 × 30	24.0	8	6.6



Split washers according to DIN 7980

Zinc plated steel.

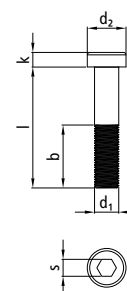
Item number	Size	Connection thread [mm]	Dim. d_1 [mm]	Dim. d_2 [mm]	Dim. h [mm]	Dim. s [mm]
965987159	6	M 6	6.1	9.9	3.78	1.6
500987160	8	M 8	8.1	12.7	4.72	2.0



Allen screws according to DIN 7984

Strength class 8.8, zinc plated steel.

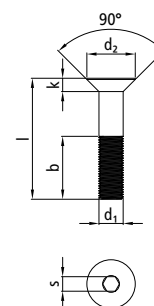
Item number	Dim. $d_1 \times l$ [mm]	Dim. d_2 [mm]	Dim. s [mm]	Dim. k [mm]	Dim. b [mm]
963976146	M 6 × 20	10	4	4	18
963976159	M 6 × 25	10	4	4	18
963976336	M 6 × 30	10	4	4	18
963976155	M 8 × 20	13	5	5	22
963976156	M 8 × 25	13	5	5	22
963976157	M 8 × 30	13	5	5	22
963976158	M 8 × 35	13	5	5	22
963976191	M 12 × 55	18	8	7	30



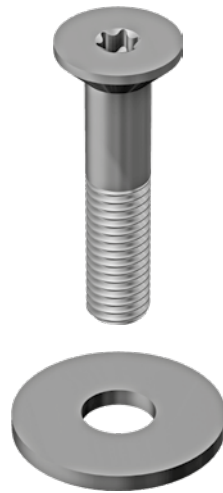
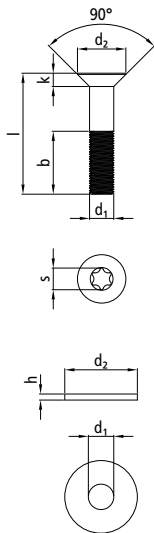
Allen screws according to DIN 7991/ISO 10642

Strength class 8.8.

Item number	Dim. $d_1 \times l$ [mm]	Dim. d_2 [mm]	Dim. s [mm]	Dim. k [mm]	Dim. b [mm]	Version
963976342	M 6 × 60	12	4	3.3	18	galvanised
963976347	M 8 × 16	16	5	4.4	22	galvanised
963976349	M 8 × 20	16	5	4.4	22	galvanised
963976350	M 8 × 25	16	5	4.4	22	bare
963976359	M 8 × 25	16	5	4.4	22	galvanised
963977349	M 8 × 30	16	5	4.4	22	galvanised
963976366	M 10 × 25	20	6	5.5	26	galvanised
500111786	M 12 × 25	24	8	6.5	30	galvanised
500111782	M 16 × 25	30	10	7.5	38	galvanised



DIN/ISO and standard parts in this chapter are only supplied in packaging units. Find out which VPE (packaging unit) an item is currently available in from your sales consultant.



Allen screws similar to DIN 7991/ISO 10642

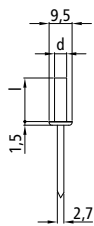
With Torx and thread locking, strength class 8.8, zinc plated steel.

Item number	Dim. $d_1 \times l$ [mm]	Dim. d_2 [mm]	Dim. s	Dim. k [mm]	Dim. b [mm]
963977348	M8×20	16	Torx T40	4.4	22

Plain washers according to DIN 9021/ISO 7093

Zinc plated steel.

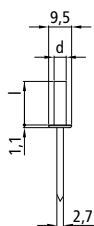
Item number	Dim. d_1 [mm]	Connection thread [mm]	Dim. d_2 [mm]	Dim. h [mm]
965987264	5.3	M5	15	1.2
965987265	6.4	M6	18	1.6
965987266	8.4	M8	24	2.0
965987267	10.5	M10	30	2.5
965987268	13.0	M12	37	3.0
965987269	15.0	M14	44	3.0
965987270	17.0	M16	50	3.0
965987272	22.0	M20	60	4.0



Sealing blind rivets with 9.5 mm flat head

Aluminium with steel pin, air and water tight, minimum shear fracture force 2400 N, minimum tensile fracture force 3400 N.

Item number	Dim. $d_1 \times l$ [mm]	Clamping range [mm]
978987957	4.8×9.5	3.0–5.0
978987958	4.8×11.0	4.5–6.5
978987959	4.8×13.0	6.0–8.0
978987960	4.8×14.5	7.5–9.5
978987961	4.8×16.0	9.0–11.0
978987963	4.8×21.0	12.5–16.0



Blind rivets with 9.5 mm flat head according to DIN-EN-ISO 15977

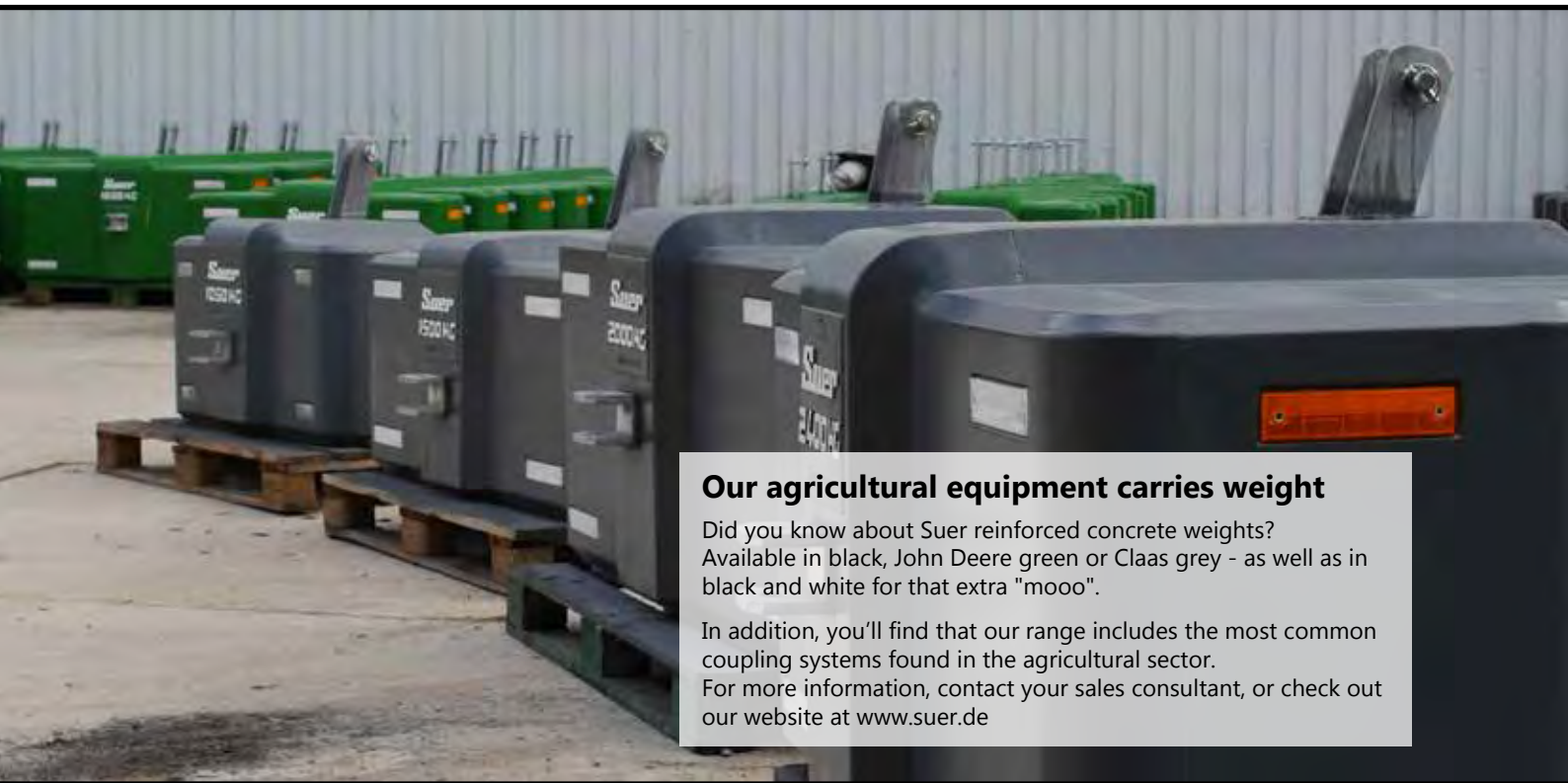
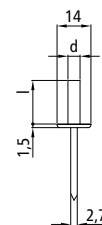
Aluminium with steel pin, minimum shear fracture force 1650 N, minimum tensile fracture force 2000 N.

Item number	Dim. $d_1 \times l$ [mm]	Clamping range [mm]
978988047	5.0×8.0	2.5–5.0
978988049	5.0×12.0	6.0–8.0
978988050	5.0×14.0	7.5–10.0
978988051	5.0×16.0	8.0–12.0
978988052	5.0×18.0	11.5–13.5
978988053	5.0×20.0	12.0–15.5
978988054	5.0×25.0	15.0–20.5
978988056	5.0×30.0	20.0–25.0
978988057	5.0×35.0	24.5–30.0
978988058	5.0×40.0	29.0–35.0
978988059	5.0×45.0	34.5–40.0

Blind rivets 14.0 mm large head

Aluminium with steel pin, minimum shear fracture force 1650 N, minimum tensile fracture force 2500 N.

Item number	Dim. d, x l [mm]	Clamping range [mm]
978988075	5.0 x 8.0	2.5–5.0
978988076	5.0 x 10.0	4.0–6.5
978988077	5.0 x 12.0	6.0–8.0
978988078	5.0 x 14.0	7.5–10.0
978988079	5.0 x 16.0	8.0–12.0
978988080	5.0 x 18.0	11.5–13.5
978988081	5.0 x 20.0	12.0–15.5
978988082	5.0 x 25.0	15.0–20.5
978988084	5.0 x 30.0	20.0–25.0



Our agricultural equipment carries weight

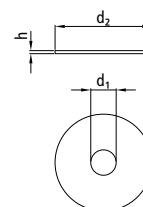
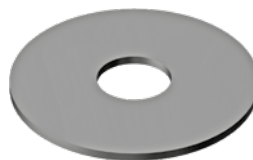
Did you know about Suer reinforced concrete weights? Available in black, John Deere green or Claas grey - as well as in black and white for that extra "moo".

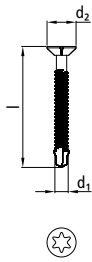
In addition, you'll find that our range includes the most common coupling systems found in the agricultural sector. For more information, contact your sales consultant, or check out our website at www.suer.de

Mudguard washers

Zinc plated steel.

Item number	Dim. d ₁ [mm]	Connection thread [mm]	Dim. d ₂ [mm]	Dim. h [mm]
965987128	5.3	M5	20	1.25
965987131	6.4	M6	20	1.25
965987132	6.4	M6	25	1.25
965987133	6.4	M6	30	1.25
965987134	8.4	M8	20	1.25
965987135	8.4	M8	25	1.25
965987136	8.4	M8	30	1.25
965987147	8.4	M8	40	1.25
965987139	10.5	M10	30	1.25
965987142	13.0	M12	30	1.25
965987144	13.0	M12	40	1.25



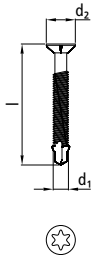


Self-drilling screws, 5.5 mm

With Torx T30, zinc plated steel.

For securing wood and steel substructures.

Item number	Dim. d ₁ × l [mm]	Dim. d ₂ [mm]	Max. clamping length [mm]	Thickness [mm]
973963650	5.5 × 38	12	24	2–5
973963651	5.5 × 45	12	31	2–5
973963652	5.5 × 50	12	36	2–5
973963653	5.5 × 55	12	41	2–5

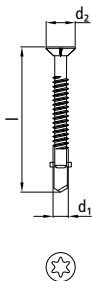


Self-drilling screws, 6.3 mm

With Torx T30, zinc plated steel.

For securing wood and steel substructures.

Item number	Dim. d ₁ × l [mm]	Dim. d ₂ [mm]	Max. clamping length [mm]	Thickness [mm]
973963660	6.3 × 45	12	29	2.5–6
973963661	6.3 × 50	12	34	2.5–6
973963662	6.3 × 55	12	39	2.5–6
973963663	6.3 × 60	12	44	2.5–6
973963675	6.3 × 60	15	44	2.5–6
973963664	6.3 × 65	12	49	2.5–6
973963665	6.3 × 70	12	54	2.5–6
973963666	6.3 × 80	12	64	2.5–6

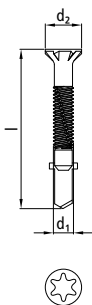


Self-drilling screws, 6.3 mm

With Torx T30, zinc plated steel.

For securing wood, steel and aluminium substructures.

Item number	Dim. d ₁ × l [mm]	Dim. d ₂ [mm]	Max. clamping length [mm]	Thickness [mm]
973963670	6.3 × 50	12	25	3–10
973963671	6.3 × 60	12	35	3–10
973963672	6.3 × 70	12	45	3–10
973963673	6.3 × 80	12	55	3–10
973963674	6.3 × 90	12	65	3–10



Self-drilling screws, 8.3 mm

With Torx T40, zinc plated steel.

For securing wood, steel and aluminium substructures.

Item number	Dim. d ₁ × l [mm]	Dim. d ₂ [mm]	Max. clamping length [mm]	Thickness	
				Steel [mm]	Aluminium [mm]
973963677	8.3 × 70	15	35	2–3	4–7

DIN/ISO and standard parts in this chapter are only supplied in packaging units. Find out which VPE (packaging unit) an item is currently available in from your sales consultant.

101101037	265	102102388	39	102629618	29	104111625	108
101101186	17	102102389	39	102629619	29	104111626	109
101101187	17	102102390	39, 40	102629620	27, 29	104111627	109
101101704	14	102102391	39, 40	102629621	27, 29	104111628	109
101102748	24	102102392	39, 40	102629622	28, 29	104111630	109
101102749	24	102102393	39, 40	102629623	28, 29	104111633	108
101111520	74	102102394	39, 40	102629720	31	104111634	109
101111758	76	102102396	171	102629721	31	104111635	108, 109
101111759	76	102102397	171	103101024	7	104111790	107
101111761	90	102102398	171	103101518	8, 9	104111792	107
101111819	89	102102399	171	103101519	8, 9	104111997	107
102101309	35	102102473	82	103101950	11	104112079	107
102101310	35	102102474	82	103101951	11	104131207	32
102101321	37	102102475	82	103101952	11	104131519	175
102101322	37	102102476	82	103102044	8	105101204	18
102101323	37	102102477	82	103102045	8	105101624	15
102101324	37	102102478	82	103102315	8, 9	105101625	15
102101331	10	102102479	82	103102316	8, 9	105101627	15
102101332	10	102102480	82	103102481	9	105102117	15
102101333	10	102102642	84	103102482	9	105102119	15
102101356	85	102102667	78	103102483	9	105102692	13
102101357	84	102102677	39	103102484	9	105102698	49
102101359	85	102102681	39	103102508	63	105102702	49
102101360	85	102102684	39, 40	103102751	10	105102712	62
102101361	79	102102725	90	103102752	10	105102784	54
102101362	79	102102731	87	103102767	34	105102827	13
102101363	86	102102734	87	103102768	34	105102828	13
102101365	85	102102736	40	103102911	34	105102836	13
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§ 1 GENERAL INFORMATION AND SCOPE OF VALIDITY

- (1) All deliveries, services and offers by Suer Nutzfahrzeugtechnik GmbH & Co. KG (hereinafter also referred to as "Suer") Art made exclusively on the basis of these General Terms and Conditions of Business. These form part of all contracts which Suer concludes with its contractual partners (hereinafter also referred to as "the Customer") relating to the deliveries or services that they offer. They also apply to all future deliveries, services or offers to the Customer, even if these are not separately agreed once again.
- (2) The terms and conditions of business of the Customer or third parties shall not apply, even when Suer does not specifically object to said applicability in individual instances. Even if Suer makes reference to a written communication which contains or refers to the terms and conditions of business of the Customer or of a third party, this shall not constitute acceptance of the validity of any terms and conditions of business.
- (3) These General Conditions of Sale only apply to companies, legal entities under public law or a special government-owned fund under public law within the meaning of § 310 Sec. 1 of the BGB.

§ 2 OFFER, MINIMUM AMOUNTS AND CONCLUSION OF THE CONTRACT

- (1) All Suer offers are subject to alteration and non-binding, unless they are expressly marked as binding or contain a specific acceptance period. Suer can accept orders or contracts within fourteen days of receipt. Such acceptance can be declared either in writing (for example, by means of an order confirmation), or by delivery of the goods to the Customer.
- (2) The sole authoritative document governing the legal relationship between Suer and the Customer is the concluded purchase contract, including these Terms and Conditions. This reproduces in full all agreements between the contracting parties regarding the subject of the contract. Verbal agreements by Suer prior to the conclusion of this contract are not legally binding, and verbal agreements between the contracting parties must be replaced by a written contract, unless it expressly follows therefrom that these continue to be binding.
- (3) Supplements and additions to the agreements made, including to these Terms and Conditions, must be made in writing in order to be valid. With the exception of its managing directors or authorised representatives, Suer employees are not authorised to conclude verbal agreements which deviate from this. Transmission by means of telecommunications, specifically by fax or e-mail, is sufficient to ensure the written form, provided that a copy of the signed declaration is transmitted.
- (4) It is agreed that a minimum amount surcharge of € 10.00 applies to all contracts whose contractual and/or order value is lower than € 50.00.
- (5) Suer retains ownership or copyright to all offers and estimates issued by them, as well as drawings, illustrations, calculations, brochures, catalogues, models, tools and other documentation and aids which are made available to the Customer. The Customer may not make available, nor disclose these, or their contents, to third parties without the express consent of Suer, or make use of or reproduce these, either themselves or by means of third parties. Upon request by Suer, these items must be returned in full to Suer and any copies produced must be destroyed, provided that these are no longer required by them for normal business purposes, or if negotiations do not lead to the conclusion of a contract. The storage of data which has been provided electronically for conventional data backup purposes is excluded from this.
- (6) Suer information on the object of the delivery or service (e.g., weights, dimensions, utility values, load capacity, tolerances and technical specifications) as well as our representations thereof (e.g., drawings and illustrations) are only approximately relevant unless usability for the contractually stipulated purpose requires a precise correspondence. These are not guaranteed features, but descriptions or labels of the delivery or service. Customary deviations and other deviations which occur due to legal requirements or which represent technical improvements as well as the substitution of components with equivalent parts are permitted, provided that these do not affect usability for the contractually stipulated purpose. Weights are calculated on the basis of the values given in the catalogues. These are considered to be known. The following standards apply for aluminium profiles: a) EN 755-1 - Technical conditions for inspection and delivery; b) EN 755-8 - Porthole tubes, tolerances on dimensions and form; c) EN 755-9 - Profiles, tolerances on dimensions and form.
- (7) DIN ISO 2768-1 Class c is applicable to side panels and aluminium kits produced to customer specifications.

§ 3 PRICES AND PAYMENT TERMS AND CONDITIONS

- (1) The prices apply to the scope of service and delivery set forth in the order confirmations. Multiple or special services will be charged separately. Prices are in EURO, ex-works, plus statutory value-added taxes, customs charges and fees for export delivery and other public charges. All prices are also plus carriage, shipment and packaging costs and other ancillary costs – where applicable.
- (2) Unless otherwise agreed, amounts invoiced by Suer fall due without discount on receipt of the respective invoice. Upon customer request, the invoice can be submitted solely by electronic means. The customer submits the following declaration of consent for this purpose. The Customer shall be deemed to have fallen into arrears if the payment in question has not been received within 14 days. Prior reminder is not necessary to this end. Despite the Customer's provisions to the contrary, Suer shall be entitled to charge up the payments in question to the Customer's older debts: Suer will inform the Customer accordingly. In the event that expenses and interest have already arisen, Suer shall be entitled to charge up the defaulted payment in question to the expenses and then to the interest and finally to the primary obligations.
- (3) The Customer shall not be entitled to offsetting or retention - even in the case of complaints or counterclaims being asserted - unless such counterclaims have become legally effective or are beyond dispute.
- (4) Should circumstances come to Suer's notice following the signature of the contract which cast doubt on the creditworthiness of the Customer and which pose a risk to the payment of outstanding debt due to Suer by the Customer under the existing contractual relationship (including under other individual orders to which the same framework contract is applicable), Suer may demand the Customer to make advance payments or furnish security for the execution or provision of outstanding deliveries or services. In such instances, Suer shall additionally be entitled to make the entire remaining debt due and payable.

§ 4 DELIVERY AND DELIVERY TIME

- (1) Deliveries are ex-works.
- (2) The delivery periods or deadlines promised by Suer are always only approximate, unless a fixed delivery period or deadline has been expressly stipulated or agreed in writing. Where shipments have been agreed, delivery periods and deadlines pertain to the time of handover to the carrier, shipper or other third party to which transport has been entrusted.
- (3) Without prejudicing default by the Customer, Suer may require an extension to the delivery period or deadline, or a delay to said delivery period or deadline by the amount of time during which the Customer fails to fulfil their contractual obligations to Suer.
- (4) Suer shall not be liable for any impossibility to perform the delivery or for delivery delays due to force majeure or other occurrences which were not foreseeable at the time that the contract was signed (e.g., operational disruptions of any kind, material or energy procurement difficulties, transport delays, strikes, legitimate lockouts, shortages of manpower, energy or raw materials, difficulties in obtaining the necessary regulatory approvals, statutory measures or missing, incorrect or untimely delivery by suppliers), which are not attributable to Suer. If such occurrences make the delivery or service significantly more difficult or impossible for Suer, and this hindrance is not of a temporary nature, Suer shall be entitled to withdraw from the contract. In the event of hindrances of a temporary nature, the delivery or service times shall be extended, or delayed for the duration of the hindrance plus a reasonable re-start period. Insofar as the Customer cannot be expected to accept the delivery or service as a result of this delay, they may withdraw from the contract by means of an immediate written declaration to Suer.
- (5) Suer may make partial deliveries as if the Customer can make use of the partial delivery as part of the contractual purpose, the delivery of the remaining ordered goods is ensured, and no significant additional expenses or costs are incurred to the Customer as a result thereof (unless Suer declares that they are willing to bear these costs).
- (6) In the event that Suer defaults on a delivery or service or if it is impossible for Suer to execute a delivery or service for whatever reason, Suer's liability shall be limited to compensation in accordance with the provisions of § 8 of these General Terms and Conditions.
- (7) Framework and call orders oblige the Customer to accept the total quantities stipulated in the framework/call order. If calls are placed which exceed the order quantity in the framework/call order, Suer shall be entitled to only supply the order quantity, to calculate the additional quantity at the current price. If no specific call dates are stipulated in the contract, the total quantities in the framework/call order must be called within 12 months. If the Customer does not comply with the call dates, Suer shall, after providing written notice of four weeks with reference to the consequences of the missing calls, be entitled to make full delivery of and invoice for the total quantity. In the event of a non-timely call and/or non-timely acceptance, Suer shall be entitled to claim compensation for additional expenses, for example arising from the storage of the goods at the Customer's cost and risk. The Customer's rights with regard to default shall remain unaffected.

§ 5 PLACE OF PERFORMANCE, SHIPPING, PACKING, TRANSFER OF RISK, ACCEPTANCE

- (1) The place of performance for all obligations under the contractual relationship is the registered office of Suer in Wermelskirchen, unless otherwise stipulated. If Suer is also responsible for the installation, the place of performance is the location at which the installation is to be performed.
- (2) The shipment method and packaging shall be subject to the dutiful judgement of Suer.
- (3) Risk is transferred to the Customer at the latest upon handover of the delivery goods (where the start of the loading process shall apply) to the carrier, shipper or other third party designated to perform the shipment. This shall also apply in the event of partial deliveries, or where Suer is also responsible for other services (e.g., shipping or installation). In the event that shipment or transfer is delayed as a result of a circumstance attributable to the Customer, the risk is transferred to the Customer on the date on which the object of delivery is ready for shipment, and Suer has notified the Customer of this.
- (4) Storage costs following the transfer of risk shall be borne by the Customer. In the event of storage by Suer, storage costs shall amount to 0.25% of the invoice amount for the objects of delivery to be stored per complete week. Suer reserves the right to assert and prove higher or lower storage costs.
- (5) Suer will only insure the shipment at the express wish of the Customer and at their expense against theft, breakage, transport, fire and water damage, or other insurable risks.
- (6) In so far as acceptance must take place, the purchase items shall be deemed to be accepted if the delivery and, if Suer is also responsible for installation, the installation have been completed; Suer shall inform the Customer of this with reference to the acceptance order in accordance with § 5 (6) herein, and shall request their acceptance; once 12 working days have elapsed since delivery or installation, or six working days once the Customer has begun to use the purchase items (e.g., the delivered equipment is put into operation) and if the Customer fails to confirm acceptance within this period for any reason other than a defect indicated by Suer, which significantly affects or renders it impossible to use the purchase items.

§ 6 WARRANTY, MATERIAL DEFECTS

- (1) The warranty period is one year from delivery or, where acceptance is required, from acceptance. This period shall not apply to claims for damages by the Customer for injury to life, limb or health, or to intentional or grossly negligent breaches of duty by Suer or its vicarious agents, which come under the statute of limitations of the respective statutory provisions.
- (2) The delivered goods must be examined carefully immediately after delivery to the Customer or a third party appointed by them. With regard to obvious or other defects which would have been apparent during an immediate, careful examination, the goods shall be considered to have been accepted by the Customer unless Suer receives a written complaint within seven working days of delivery. With regard to other defects, the delivery goods shall be considered to have been accepted by the Customer if Suer does not receive a complaint within seven working days from the time at which the defect was identified; if the defect was already apparent to the Customer at an earlier date during normal use, this earlier date shall be used as the start of the complaint period. Upon request by Suer, a rejected delivery item must be returned carriage paid to Suer. In the event of a legitimate complaint, Suer shall reimburse the cost of the cheapest shipping method; this shall not apply if the costs are increased because the delivery item is at a location other than the place of intended use.
- (3) In the event of material defects to the supplied items, Suer shall be obliged and entitled to rectify or replace the goods at their own choice within a reasonable time. In the event of a failure, i.e., the impossibility, non-feasibility, refusal or inappropriate delay to rectify or replace the goods, the Customer may withdraw from the contract or reduce the purchase price appropriately.
- (4) In the event of a defect attributable to Suer, the Customer may claim for damages subject to the conditions in § 8.

- (5) In the event of a defect in another manufacturer's components which Suer is unable to remedy due to licensing or factual reasons, Suer may at its own choice assert their warranty claims against the manufacturer and supplier for the Customer's account, or assign these to the Customer. Warranty claims may only be filed against Suer in the event of such defects subject to the other preconditions and the terms of these General Terms and Conditions if the judicial enforcement of the aforementioned claims against the manufacturer and suppliers was unsuccessful, or pointless, for example due to insolvency. The statute of limitations for the relevant warranty claims by the Customer against Suer shall be suspended for the duration of the legal dispute.
- (6) The warranty shall not apply if the object of the delivery is modified by the Customer or by a third party without approval from Suer, and this renders the elimination of the defect impossible or unreasonably difficult. In any case, the Customer shall be required to bear the additional costs involved in the elimination of the defect attributable to the modification.
- (7) Any failure by the Customer to comply with the operating, installation or maintenance instructions shall void the warranty in its entirety. The warranty shall specifically be voided if the body construction guidelines of the corresponding vehicle manufacturer are not observed when assembling a so-called Cargotrail body. The proper dimensioning of the required subframe and the mounting thereof onto the vehicle chassis must in particular be taken into consideration.
- (8) Deliveries of used components agreed on a case-by-case basis with the Customer are not covered by any warranty for material defects.

§ 7 PROPERTY RIGHTS

- (1) In accordance with the provisions of § 7 herein, Suer warrants that the object of delivery is not subject to the industrial property rights or copyright of a third party. Each contractual partner shall immediately notify the other contractual partner in writing in the event that a claim for breach of such rights is asserted against said party.
- (2) In the event that the object of delivery infringes upon the commercial property rights or copyright of a third party, Suer will, at its option and at its own expense, modify or replace the object of delivery in such a way that no third-party rights are infringed, but the object of delivery continues to fulfil the contractually agreed functions, or grant the Customer usage rights through the purchase of a licence agreement. If Suer fails to do this within a reasonable period of time, the Customer shall be entitled to withdraw from the contract, or to make a reasonable reduction to the purchase price. Any claims for damages by the Customer shall be subject to the restrictions in § 8 of these General Terms and Conditions.
- (3) In the event of a legal infringement by products of other manufacturers supplied by Suer, Suer may choose to assert its claims against the manufacturer and upstream suppliers on behalf of the Customer or assign these to the Customer. In such instances, claims may only be filed against Suer in accordance with the provisions of § 7 herein, if the judicial enforcement of the aforementioned claims against the manufacturer and upstream suppliers was unsuccessful, or pointless, for example due to insolvency.

§ 8 LIMITATION OF LIABILITY

- (1) Suer's liability for damages, for whatever reason, and in particular due to the impossibility of, delayed, inadequate or incorrect delivery, breach of contract, breach of obligations during the contractual negotiations and tort, is limited, to the degree that each side is at fault, in accordance with the provisions of § 8 herein.
- (2) Suer shall not be liable in the event of simple negligence by their bodies, legal representatives, employees or other vicarious agents, to the extent that this does not involve a violation of essential contractual obligations. Essential contractual obligations comprise the timely delivery and installation of the object of delivery, the absence therein of defects in title as well as any material defects which affect its functionality or usability more than insignificantly, as well as advisory, custodial and duty of care obligations that enable the Customer to use the object of delivery in accordance with the contract, to protect the life and limb of the Customer's personnel or to protect their property from significant damage.
- (3) Insofar as Suer is fundamentally liable for damages in accordance with § 8 (2), this liability is limited to damages which Suer foresaw at the signature of the contract as the possible consequence of a breach of contract, or which they should have foreseen through the application of due care. Indirect and consequential damages which are the result of defects in the object of delivery are in addition only eligible for compensation to the degree that such damages are to be expected when the object of delivery is used as intended.
- (4) In the event of liability for simple negligence, Suer's liability for damages and further pecuniary damages resulting therefrom is limited to an amount of EUR 5.2 million (equivalent to the current coverage of its product liability insurance or liability insurance), even in the event of a breach of essential contractual obligations.
- (5) The above disclaimers and limitations apply to the same extent for the bodies, legal representatives, employees and other vicarious agents of Suer.
- (6) Insofar as Suer provides technical information or acts in an advisory capacity, and this information or advice is not included in the contractually agreed scope of services to be provided by them, this is done free of charge, and to the exclusion of any liability.
- (7) The restrictions in § 8 do not apply to the liability of Suer to intentional behaviour, to guaranteed characteristics, to injury to life, limb or health, or in accordance with the Product Liability Act.

§ 9 RETENTION OF TITLE

- (1) The delivered goods (reserved goods) remain the property of Suer until all requirements which Suer may exercise against the Customer now or in the future have been fulfilled, and including all claims relating to the current account balance. If the Customer is in breach of contract – specifically, if they have defaulted on the payment of a claim for payment, Suer shall be entitled to retrieve the reserved goods after setting a reasonable period of time for the obligation to be performed. The transport costs arising from this retrieval shall be borne by the Customer. If Suer retrieves the reserved goods, this shall be considered a rescission of the contract. Similarly, the contract shall be considered to be rescinded in the event that Suer mortgages the reserved goods. Suer may continue to use reserved goods which are retrieved by Suer. The proceeds of said use will be offset against any sums owed by the Customer to Suer, once Suer had deducted a reasonable amount for the cost of use.
- (2) The Customer must treat the reserved goods with care. They must, at their own expense, insure them against fire, water and theft damage as new. In the event that maintenance and inspection work is required, the Customer must perform these in a timely manner at their own cost.
- (3) The Customer may use the reserved goods and resell them in the ordinary course of business, provided that they are not in default of payment. However, they may not mortgage the reserved goods or transfer them as security. The Customer hereby assigns any Customer claims for payment against their buyers from the resale of the reserved goods as well as any claim by the Customer with regard to the reserved goods arising from any other legal basis against their buyer or third party (in particular, tort and insurance service claims) and as well as all claims relating to the current account balance to Suer, in full, for security purposes. Suer accepts this assignment. The Customer may collect the claims assigned to Suer on their accounts in their own name for Suer, provided that Suer does not revoke this authorisation. Suer's right to collect these claims itself shall remain unaffected; however, Suer will not assert these claims itself or revoke the direct debit authorisation provided that the Customer duly fulfills their payment obligations. However, if the Customer remains in breach of contract – specifically, if they have defaulted on the payment of a claim for payment, Suer may demand that the Customer discloses the assigned claims and the respective debtors to Suer, notify the respective debtors of the assignment, and provides Suer with all of the documentation as well as all information which Suer requires in order to assert their claim.
- (4) Any combination or reformation of the reserved goods by the Customer must always be undertaken for Suer. If the reserved goods are combined with other items which do not belong to Suer, Suer shall acquire co-ownership of the new item in proportion to the value of the reserved goods (final invoice amount including VAT) to the other combined items at the time of the combination. Incidentally, the same shall apply to the new item created by the combination as to the reserved goods. If the reserved goods are inseparably combined or mixed with other items which do not belong to Suer, Suer shall acquire co-ownership of the new item in proportion to the value of the reserved goods (final invoice amount including VAT) to the other combined or mixed items at the time of the combination or mixture. If the reserved goods are combined or mixed in such a way that the Customer's item is considered to be the main item, the Customer and Suer hereby agree that the Customer transfers proportional co-ownership of this item to Suer. Suer accepts this transfer. The Customer shall keep safe the sole ownership or co-ownership of the item for Suer.
- (5) In the event of the seizure of the reserved goods by a third party or in the event of other interventions by third parties, the Customer must provide notification of Suer's ownership and must immediately notify Suer in writing, so that Suer can enforce its ownership rights. The Customer shall be liable in the event that the third party is unable to reimburse Suer for any judicial or extrajudicial costs incurred in this respect.
- (6) If the Customer so requires, Suer is obliged to release these securities due to Suer to the extent that their realisable value exceeds the value of Suer's outstanding claims against the Customer by more than 10%.

§ 10 FINAL CLAUSES

- (1) If the Customer is a merchant, a legal entity under public law or a special government-owned fund under public law, or they have no general jurisdiction within the Federal Republic of Germany, Remscheid shall be the place of jurisdiction for any legal disputes arising from the business relationship between Suer and the Customer. The mandatory statutory provisions relating to exclusive jurisdictions remain unaffected by this provision.
- (2) The relationships between Suer and the Customer shall be subject exclusively to the law of the Federal Republic of Germany. The United Nations Convention on Contracts for the International Sale of Goods (CISG) dated April 11th 1980 does not apply.
- (3) Insofar as the contract or these General Terms and Conditions contain loopholes, legally effective provisions which bridge these loopholes which the contractual partners would have agreed in accordance with the economic objectives of the contract and the purpose of these General Terms and Conditions if they had been aware of the loopholes shall be deemed to have been agreed.

Notice:

The Customer acknowledges that Suer stores data on the contractual relationship in accordance with § 28 of the Federal Data Protection Act for data processing purposes, and reserves the right to transfer this data to the degree necessary for the fulfilment of the contract to third parties (e.g., insurance companies).



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