

Suer

Nutzfahrzeugtechnik

Competence since 1892

20
15



 -Line

Load restraint

The new MultiSave crossmembers

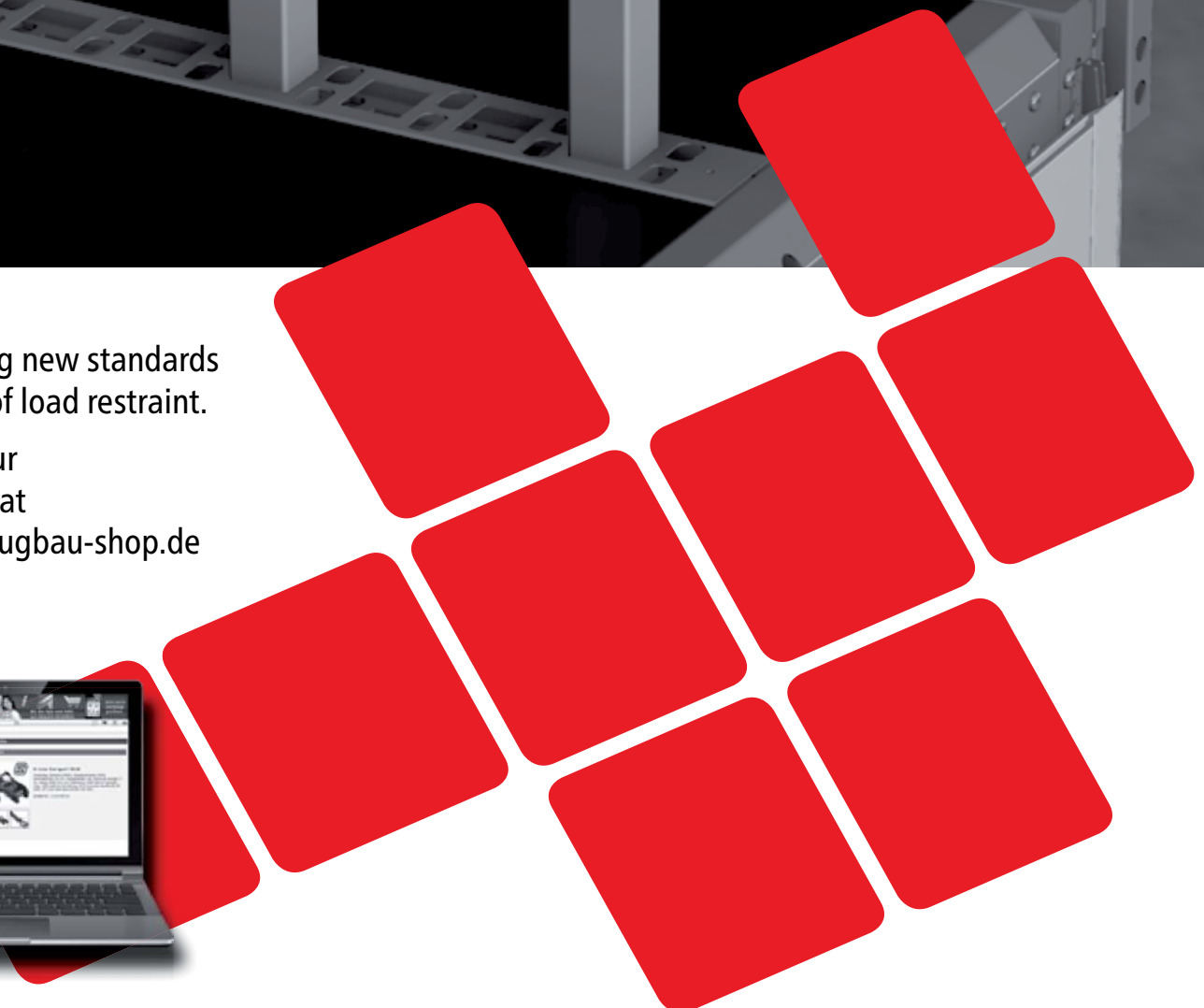
Stake out and lash down in one go.

More information on page 46.



We're setting new standards
in the field of load restraint.

Visit us in our
online shop at
www.fahrzeugbau-shop.de



Load restraint with tie-down straps	Page	1
Load restraint and second deck loading	Page	3
Anchor tracks	Page	5
Round shoring bars	Page	16
Rectangular shoring beams	Page	17
Cargo beam systems	Page	21
Garment rail	Page	22
Cargo planks	Page	23
Clamping bars	Page	24
Tie-down straps	Page	25
Car transport tie-down straps	Page	32
Corner edge protectors	Page	36
Anti-slip matting	Page	37
Coated phenolic plywood boards	Page	37
Cargo nets	Page	37
Towing slings	Page	38
Round slings	Page	38
Hoisting slings	Page	39
Lashing rings, recess plates, and lashing ring pockets	Page	39
Floor frame for lashing rings/with lashing eyes	Page	45
MultiSave load restraint system	Page	46
Lashing point signs	Page	47
Miscellaneous anchorings	Page	47
Side planks	Page	48
Slip-on planks	Page	51
Combi ram guards	Page	52
Cable and belt winches	Page	53
Cable	Page	55
Chains	Page	58
Overview of load restraint element combinations	Page	60
Keyword index	Page	IV
Article number index	Page	64
General terms and conditions of business (sales)	Page	67

Index

A

Abrasion protection	34
Airline profile anchor tracks	12
Anchor track cover strip	14
End caps	15
Fittings	35
Anchoring	47
Anchor tracks	5
Anti-slip matting	37

B

Beam shoe	22
Belt winches	53

C

Cable pulleys	57
Cables	55
Cable winches	53
Cam buckle strap	25
Cargo beam	22
Cargo nets	37
Cargo planks	23
Hanging strap	23
Car transport tie-down straps	32
Chock	34
Chain hook	47
Chain quick-repair links	59
Chains	58
Chain tensioner	59
Chock for car transporter	34
Clamping bars	24
Coated phenolic plywood boards	37
Combi anchor side plank	49
Combi anchor track	8
Combi pegs	18, 20
Combi ram guards	52
Corner edge protectors	36

D

Double Airline fitting	35
------------------------	----

E

End cap	15
End stop	50
Ergo tie-down strap	27

F

Fittings	35
Fixed end	28
Floor frame	45
Fourfold Airline fitting	35
Free-wheel ratchet wrench	53

G

Garment rail	22
Guide rail	7

H

Hand crank	54
Hanging strap	23
Headboard anchoring	32
Hoisting slings	39

K

Keyhole anchor rail	7
---------------------	---

L

Lashing eye	44
Lashing plate point	14
Lashing point signs	47
Lashing ring pocket	43
Lashing rings	39
Lashing winches	53
Link chains	58
Loose end	27, 28

M

MultiSave crossmember	46
MultiStick 70	46

P

Padded lath	11
Pallet stop rails	50
Pegs	19
Pinguin	40
Pivoting cargo beam	21
Pointer	43

R

Ram guards	52
Recessed lashing ring	41
Rectangular shoring beams	17
Rod anchor track	10
Round hole anchor track	5
Round shoring bars	16
Combi pegs	18
Round slings	38
Round strand cables	55

S

Screw fitting	35
Side planks	48
End stop	50
Simple Airline fitting	35
Slip-on planks	51
Slot-hole anchor tracks	10
End cap	15

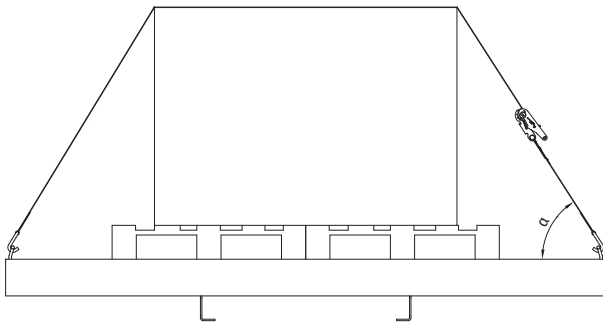
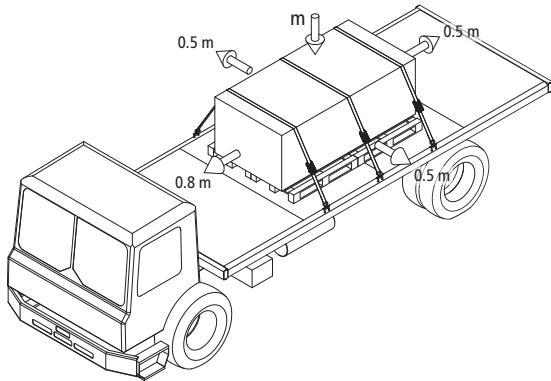
Spannblitz	34
Steel cables	56

T

Tensioning chains	58
Tie-down straps	25
Adapter 1000	34
Car transport tie-down straps	32
End fittings	35
Tipper cables	56
Towing slings	38

W

Worm drive	54
------------	----



Load restraint

Driving off, taking bends, braking, driving on bumpy stretches - it isn't always when the brakes are slammed on that the load starts slipping. With road transport, even when driving off, 0.5 times the weight of the load acts in a longitudinal direction towards the rear and the same value acts laterally towards the outside on bends. When the brakes are applied, it can be 0.8 times the load weight.

The force (F_M) a load develops when braking is quite a simple physical calculation:

$$F_M = m \times c_x \times g$$

$$F_M = 1.99 \text{ t} \times 0.8 \times 9.81 \frac{\text{m}}{\text{s}^2}$$

$$F_M = 15.64 \text{ kN}$$

The transportation of a pack of Finnish birch phenolic plyboards (60 pieces 15 x 1250 x 2500 mm, weight 1.99 tons) serves as an example. The load is freely exposed with no positive fit against the side boards or another load on the loading area.

Minus the friction forces (F_R) between the loading floor and the load:

$$F_R = m \times \mu_D \times g$$

$$F_R = 1.99 \text{ t} \times 0.25 \times 9.81 \frac{\text{m}}{\text{s}^2}$$

$$F_R = 4.89 \text{ kN}$$

Once again the example using the pack of phenolic plyboards, the truck loading floor is fitted with phenolic plywood boards.

Produces an excess force of:

$$F_X = F_M - F_R$$

$$F_X = 15.64 \text{ kN} - 4.89 \text{ kN}$$

$$F_X = 10.75 \text{ kN}$$

There remains a force equal to almost 1.1 tons, which shifts in the direction of the cab. A good load restraint is required for example, through lashing the load down with tie-down straps.

EN 12195-1 "Load restraint assemblies on road vehicles" contains, among other things, an equation for calculating the number of tie-down straps necessary:

$$n \geq \frac{(c_x - \mu_D \times c_z) \times m \times g}{k \times \mu_D \times \sin \alpha \times F_T}$$

$$n \geq \frac{(0.8 - 0.25 \times 1) \times 1.99 \text{ t} \times 9.81 \frac{\text{m}}{\text{s}^2}}{1.5 \times 0.25 \times \sin 57^\circ \times 5 \text{ kN}}$$

$$n \geq 8.14 \rightarrow 9 \text{ tie-down straps}$$

Staying with our phenolic plyboard pack example.

By comparison: A table obtainable through the trade in which the number of tie-down straps necessary can be read off by a simple method using the factors of load weight, friction value μ , standard tension force (STF) and strap angle, recommends the deployment of 8 tie-down straps.

To deploy 9 tie-down straps is less practical. How important a factor the friction between the load and the truck floor plays is demonstrated by the deployment of anti-slip mats or anti-slip strips, article nos.: [295131386](#) and [295131387](#). With anti-slip mats or strips, a friction value μ of up to 0.8 can be achieved. With it, the required number of tie-down straps in our worked example sinks to 3:

$$n \geq \frac{(c_x - \mu_A \times c_z) \times m \times g}{k \times \mu_A \times \sin \alpha \times F_T}$$

$$n \geq \frac{(0.8 - 0.50 \times 1) \times 1.99 \text{ t} \times 9.81 \frac{\text{m}}{\text{s}^2}}{1.5 \times 0.50 \times \sin 57^\circ \times 5 \text{ kN}}$$

$$n \geq 2.22 \rightarrow 3 \text{ tie-down straps}$$

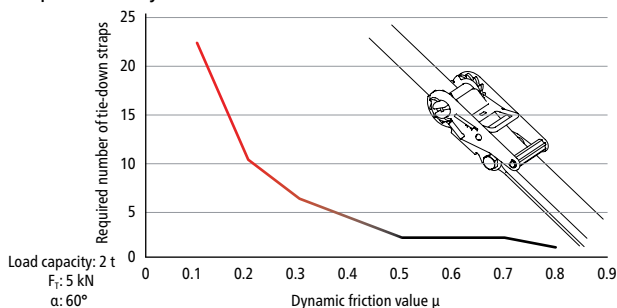
And to conclude, staying with our phenolic plyboard pack example, the friction value μ_A has been determined at 0.50.

Symbols, units and descriptions of the itemised formulae:

Symbol	Unit	Description
F_M	kN	Longitudinal load force on braking.
F_R	kN	Friction force between load and loading floor.
F_X	kN	Effective longitudinal force of the load.
m	t	Load weight including pallets.
g	m/s^2	Gravitational acceleration/gravitational force.
μ_D		Dynamic friction value of timber Europallet to loading floor, floor faced with phenolic plyboards. Value selected in accordance with EN 12195-1.
μ_A		Dynamic friction value of timber Europallet to anti-slip mat to loading floor, floor faced with phenolic plyboards.
$c_{x,z}$		Acceleration coefficient in the X- or Z direction. Value selected in accordance with EN 12195-1.
k		Transfer coefficient. Value selected in accordance with EN 12195-1.
α	Angle	Vertical angle of tie-down strap to loading floor. Value measured from drawing above.
F_T	kN	Standard tension force STF for the tie-down strap.
n		Required number of tie-down straps.

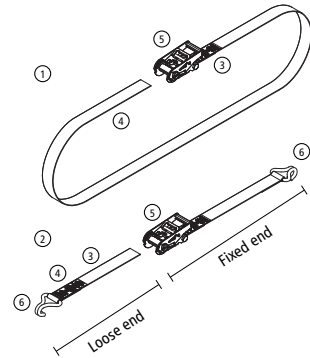
Frictional influence

The curve below shows clearly how greatly the friction between the load and the truck floor influences the number of tie-down straps necessary.



Tie-down strap: part names

- 1 One-piece tie-down strap
- 2 Two-piece tie-down strap: consisting of the fixed end and loose end units
- 3 Webbing
- 4 Label
- 5 Tensioning element variable: cam buckle, ratchet (illustration) or lashing winch.
- 6 End fitting variable: double Airline fitting, simple Airline fitting, flat hook, carabine hook, claw hook, combi anchor track end fitting, chain combination parts, Krone hook, round hole end fitting, S-hook, double J-hook (illustration), single J-hook, triangle, fourfold Airline fitting or lashing hook with safety catch (flat, swivel or twisted design).



Information on the label



Each tie-down strap and each unit in the case of two-part straps (fixed end/loose end) must, to comply with DIN EN 12195-2, be provided with a label in accordance with EN 292-2:1991.

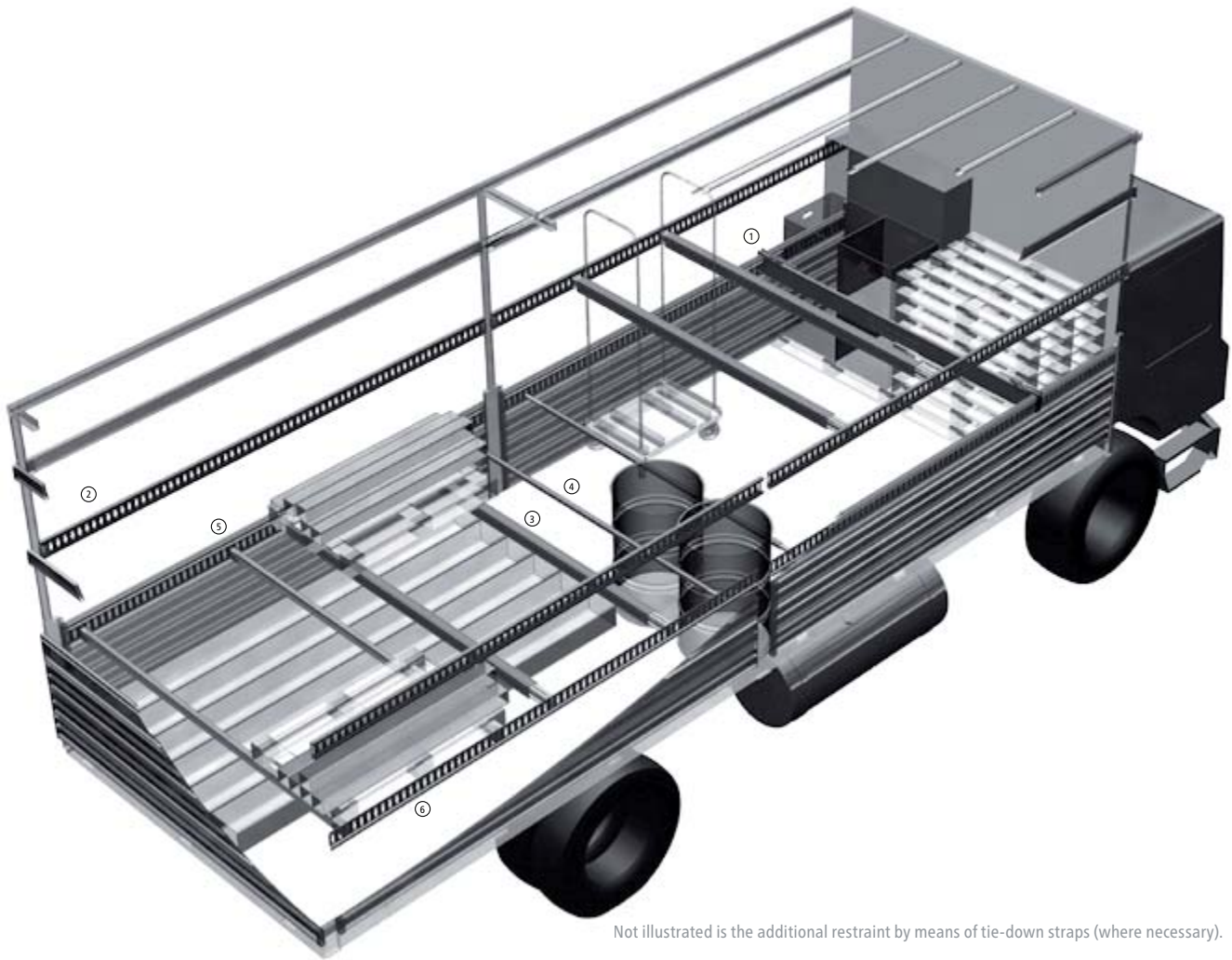
The following statutory information is stated on the label:

- 1 BLC (Body Lashing Capacity-permitted strap force)
Maximum permitted force in straight tension for which the tie-down strap is designed to be used.
- 2 SHF (Standard Hand Force-normal hand force)
Specified force at the cam buckle/ratchet handle which the tensioning force generates in the tie-down strap.
- 3 STF (Standard Tension Force-normal tensioning force)
Residual force/tensioning force after the handle of the cam buckle/ratchet (SHF) is let go.
- 4 Webbing material
 S-Line strap webbing is manufactured from multiple layers of interwoven synthetic fibres. The material used can be identified by the designation and/or the colour of the label:
 PES (polyester), label colour blue, suitable for the temperature range -40° C to +120° C.
 PA (polyamide), label colour green, suitable for the temperature range -40° C to +100° C.
 PP (polypropylene), label colour brown, suitable for the temperature range -40° C to +80° C.
- 5 Elongation of strap
In accordance with the DIN Standard the strap, when tensioned to the maximum permissible force BLC, may not stretch by more than 7%. The majority of S-Line straps have a maximum elongation of not more than 5%.
- 6 Length of tie-down strap/length of tie-down strap unit
With one-piece tie-down straps, the dimension is approx. the length of the open, laid out strap.
With two-part tie-down straps, the dimension is similarly measured but the length is given separately for each unit (fixed end/loose end).
- 7 Warning
- 8 Manufacturer's name or symbol.
The S-Line symbol identifies proprietary products of Suer Nutzfahrzeugtechnik GmbH & Co. KG.
- 9 Manufacturer's traceability code
In the case of S-Line tie-down straps, an 8-digit code no. is given with the Suer Nutzfahrzeugtechnik GmbH & Co article number beneath this.
- 10 Year of manufacture
- 11 Standard number
The Standard to which the tie-down strap has been manufactured and tested



In addition, the labels on the S-Line tie-down straps contain the following information:

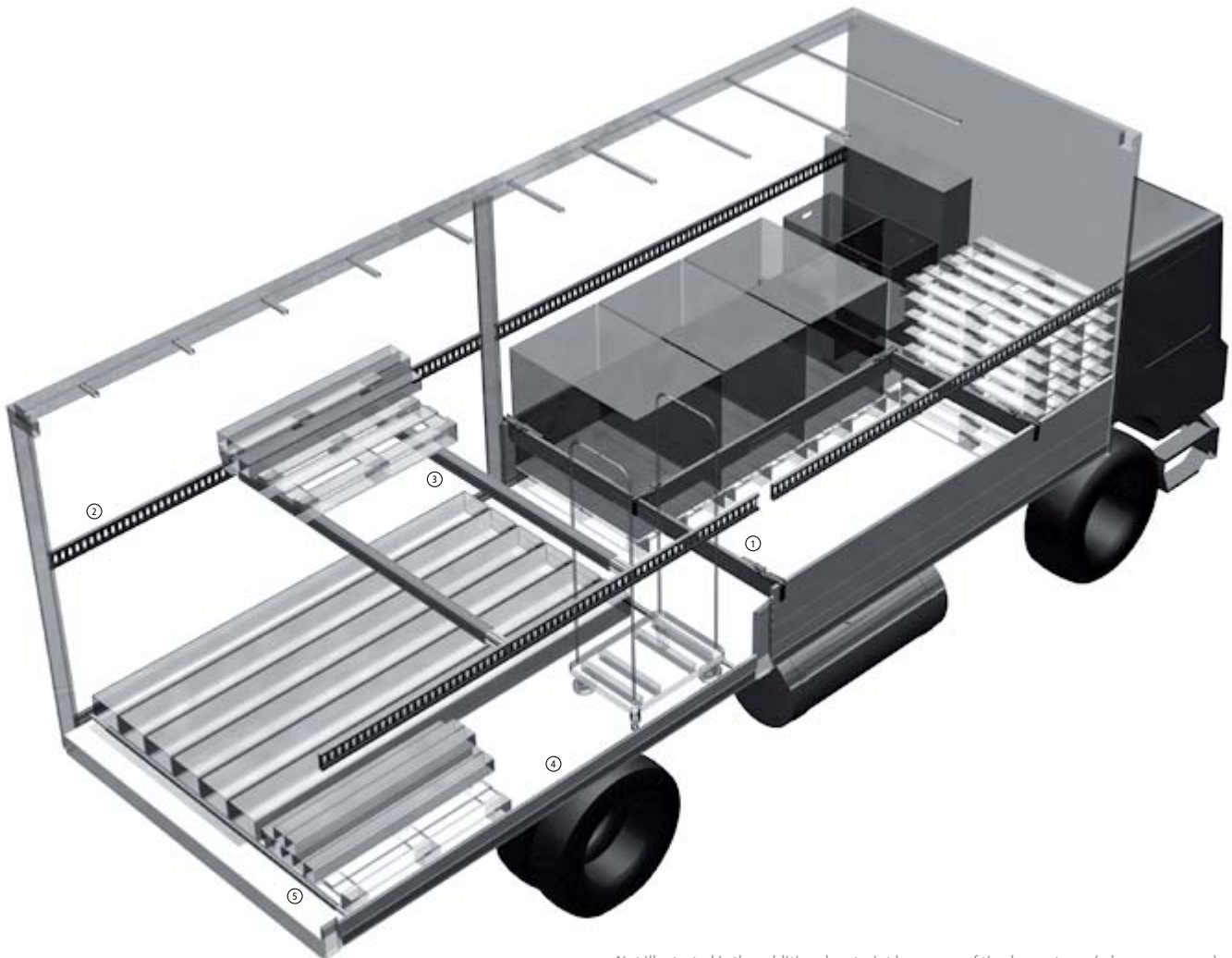
- 12 Permissible tension force depending on lashing method
 Permissible tension force when banded.
 Permissible tension force pulled straight.
- 13 Other seals of approval – many S-Line tie-down straps carry the TÜV and the GS seals.
- 14 Test table
Tie-down straps must be tested at least once every year by a qualified specialist. The test year can be marked in the test table.



Not illustrated is the additional restraint by means of tie-down straps (where necessary).

Application example for various components for positive fitting load restraint and for second floor loading on a flatbed body.

- 1 Cargo planks
The simplest option for load restraint on flatbed bodies. The cargo plank is attached between the side boards, between side planks or similar but also between other cargo planks or a combination of the elements mentioned, pushed positively against the load and locked.
- 2 Combi anchor side planks
Steel insert planks with hole pattern for use with garment rails, tie-down straps, cargo beams or round shoring bars.
- 3 Cargo beams
Used for second floor loading and suitable for load restraint with all body types fitted with locking options in the form of anchor tracks or combi anchor side planks. The cargo beams are placed in the desired position corresponding to the locking hole pattern and as close as possible to the freight being secured.
- 4 Round shoring bars/rectangular shoring beams
Shoring bars can be utilised horizontally or vertically to the rearward load restraint – where the appropriate lashing rails or anchor tracks are available in the body. The shoring bars are locked by spring assistance as closely as possible to the freight to be restrained relative to the lashing rails/anchor tracks.
- 5 Beam shoes for second floor loading
Additional loading levels can be produced by utilising beam shoes and crossmembers made, for example, from 70 x 40 mm rectangular tube. The beam shoes are utilised in the desired position matching the locking hole pattern in the anchor rails or combi-anchor side planks required for this; the crossmember is inserted into the shoes and the new loading level is ready.
- 6 Anchor tracks
Built into the side walls, side planks, floor or under-roof, anchor rails form the foundation of almost all of the above itemised load restraint options. Into these are locked the shoring bars, garment rails, cargo beams or tie-down straps.



Not illustrated is the additional restraint by means of tie-down straps (where necessary).

Application example for various components for positive fitting load restraint and for second deck loading on a curtainsider body.

1 Cargo planks

The simplest load restraint option with curtain-sider bodies where these are fitted with side boards, floor side planks or pallet stop rails. The cargo plank is attached between the side boards, between side planks or similar but also between other cargo planks or a combination of the elements mentioned, pushed positively against the load and locked.

2 Combi anchor side planks

Steel insert planks with hole pattern for use with garment rails, tie-down straps, cargo beams or round shoring bars.

3 Cargo beams

Used for second floor loading (as illustrated) and suitable for load restraint with all body types fitted with locking options in the form of anchor tracks or combi-anchor side planks. The cargo beams are placed in the desired position corresponding to the locking hole pattern (second floor loading) and locked as closely as possible to the freight being secured (load restraint).

4 Pallet stop rail on combi ram guard

In conjunction with the combi ram guard **644001**, the pallet stop rail **644010/644011** is the only stop rail recognised as a load restraint on the market which can be fitted without tools. It is handled just as a conventional V- or tarpaulin side plank. Integrated into the profile **644011** is the Airline system for accepting shoring bars with $\varnothing 19$ mm pegs.

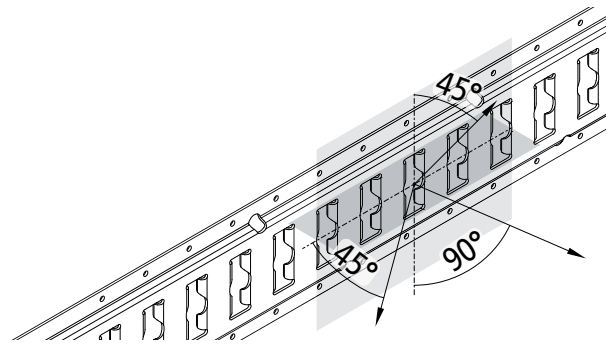
5 Round shoring bars/rectangular shoring beams

Shoring bars can be utilised horizontally or vertically to the rearward load restraint - where the appropriate lashing rails or anchor tracks are available in the body. The shoring bars are locked by spring assistance as closely as possible to the freight to be restrained relative to the lashing rails/anchor tracks.

What can anchor tracks actually bear?

We can state the BLC values for the majority of the -Line anchor tracks. The values for the angles of 45° and 90° are specified, measured from the main axis of the track.

The values are to be found in the respective product description.



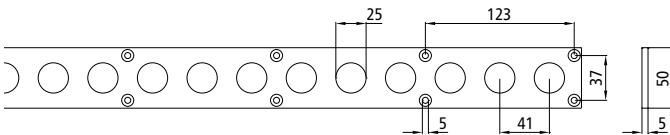
Round hole anchor track 3004-AL

Aluminium self colour.

For floor installation. Compatible with combi pegs Ø 19/24 mm.

BLC values with end fitting 5008.

Material surface	Length [mm]	BLC at		Material thickness [mm]	Weight [kg]	
		45° [daN]	90° [daN]			
Alum. self colour	2993	500	500	5	1.6	122138012



Round hole anchor track 1805-FL

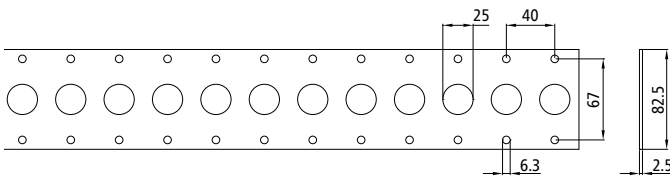
Zinc plated steel.

For horizontal and vertical wall as well as floor installation.

Compatible with combi pegs Ø 19/24 mm.

BLC values with end fitting 5008.

Material surface	Length [mm]	BLC at		Material thickness [mm]	Weight [kg]	
		45° [daN]	90° [daN]			
Zinc plated steel	3000	500	500	2.5	4.4	122138003



-Line round hole anchor track 1805

Zinc plated steel.

For horizontal and vertical wall as well as floor under-roof installation. Compatible with combi pegs Ø 19/24 mm

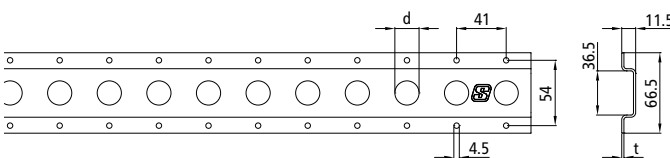
(**142138004**, **142138002**) and with combi peg Ø 21 mm

(**142138617**).

BLC values for **142138004** with end fitting 5007, for

142138617/142138002 with end fitting 5008.

Material surface	Length [mm]	BLC at		Material thickness t [mm]	Ø d [mm]	Weight [kg]	
		45° [daN]	90° [daN]				
Zinc plated steel	2993	500	500	2	20	3.0	142138004
Zinc plated steel	2500	500	500	3	22	4.5	142138617
Zinc plated steel	2993	500	500	2	25	3.0	142138002



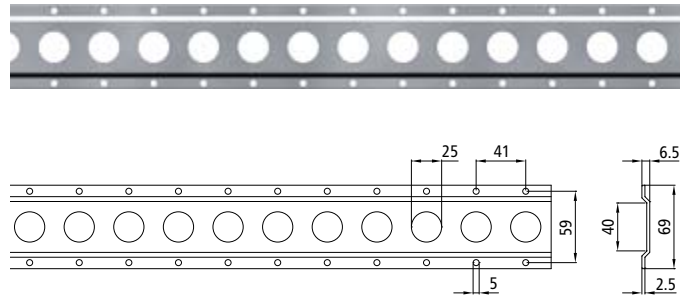
© 2015 SUER GmbH Load Restraint Catalogue – Subject to technical changes without notice. Errors and omissions excepted.

You will find a table on pages 60 and 61 with a list of load restraint element compatibility with the anchor tracks.

Round hole anchor track 3002

Zinc plated steel.
For horizontal and vertical wall as well as under-roof installation.
Compatible with combi pegs \varnothing 19/24 mm.
BLC values with end fitting 5008.

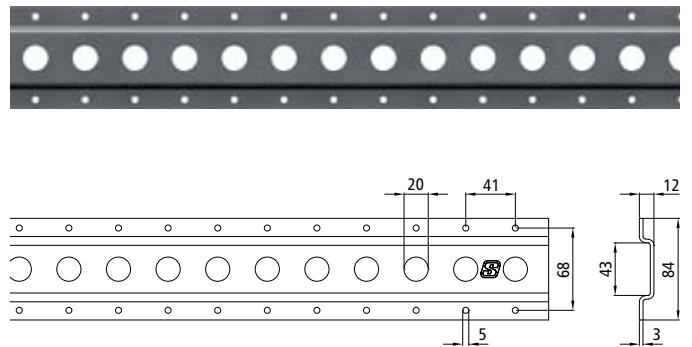
Material surface	Length [mm]	BLC at 45°	BLC at 90°	Material thickness [mm]	Weight [kg]	
Zinc plated steel	2993	500	500	2.5	3.6	122138011



S-Line round hole anchor track 1804

Zinc plated steel.
For horizontal and vertical wall as well as under-roof installation.
Compatible with combi pegs \varnothing 19/24 mm.
BLC values with end fitting 5007.

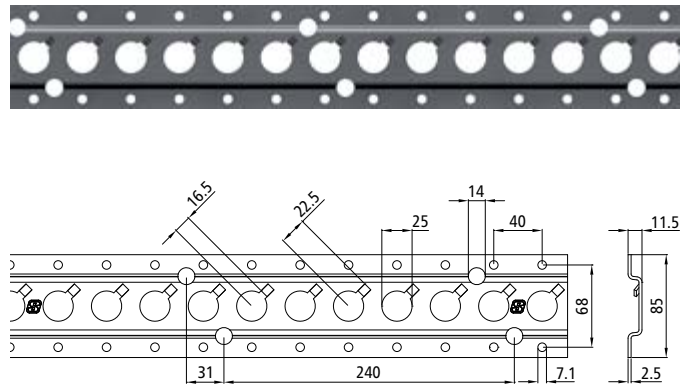
Material surface	Length [mm]	BLC at 45°	BLC at 90°	Material thickness [mm]	Weight [kg]	
Zinc plated steel	3048	500	500	3	6.0	142138598



S-Line round hole anchor track 1806

Zinc plated steel.
With anti-twist safeguard. For horizontal and vertical wall as well as under-roof installation. Compatible with combi pegs \varnothing 19/24 mm and garment rails.
BLC values with end fitting 5008.

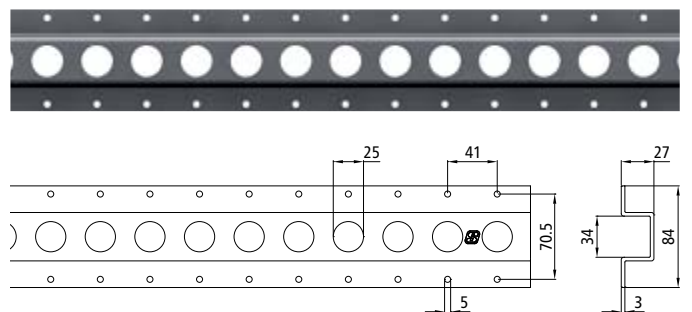
Material surface	Length [mm]	BLC at 45°	BLC at 90°	Material thickness [mm]	Weight [kg]	
Zinc plated steel	3000	500	500	2.5	4.8	142138005



S-Line round hole anchor track 3011

Zinc plated steel.
For floor and under-roof installation. Compatible with combi pegs \varnothing 19/24 mm.
BLC values with end fitting 5008.

Material surface	Length [mm]	BLC at 45°	BLC at 90°	Material thickness [mm]	Weight [kg]	
Zinc plated steel	2993	500	500	3	7.8	142138028



➔ You will find a table on pages 60 and 61 with a list of the load restraint element compatibility with the anchor tracks.



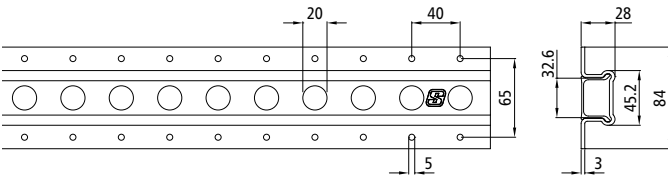
S-Line round hole anchor track 3010-GS

Zinc plated steel. With plastic inlay.

For floor installation. Compatible with combi pegs \varnothing 19/24 mm and beverage shoring beams.

BLC values with end fitting 5008.

Material surface	Length [mm]	BLC at \angle		Material thickness [mm]	Weight [kg]	
		45° [daN]	90° [daN]			
Zinc plated steel	7770	500	500	3	21.0	142138611

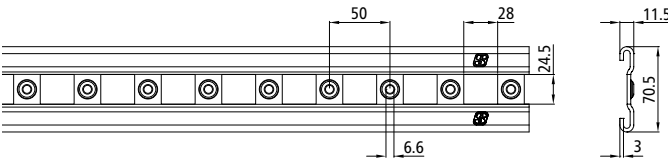


S-Line guide rail 3010-GS

Zinc plated steel.

For under-roof installation. Compatible with beverage shoring beam steel slider.

Material surface	Length [mm]	BLC at \angle		Material thickness [mm]	Weight [kg]	
		45° [daN]	90° [daN]			
Zinc plated steel	7480	---	---	3	14.9	142138610



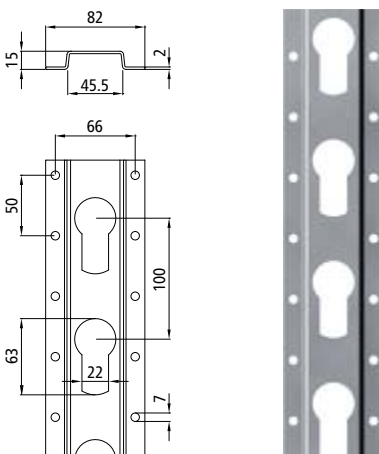
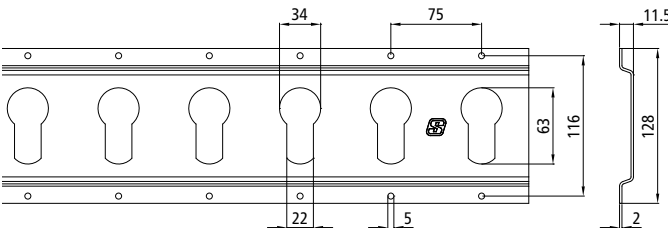
S-Line keyhole anchor rail 1803-H

Zinc plated steel.

For horizontal wall installation. Compatible with \varnothing 33 mm peg, garment rails with steel end piece and all established combi anchor rail end fittings.

BLC values with end fitting 585.

Material surface	Length [mm]	BLC at \angle		Material thickness [mm]	Weight [kg]	
		45° [daN]	90° [daN]			
Zinc plated steel	3000	800	800	2	6.4	142138001



Keyhole anchor track 1803-V

Zinc plated steel.

For vertical wall installation. Compatible with \varnothing 33 mm peg, garment rails with steel end piece and all established combi anchor rail end fittings.

BLC values with end fitting 585.

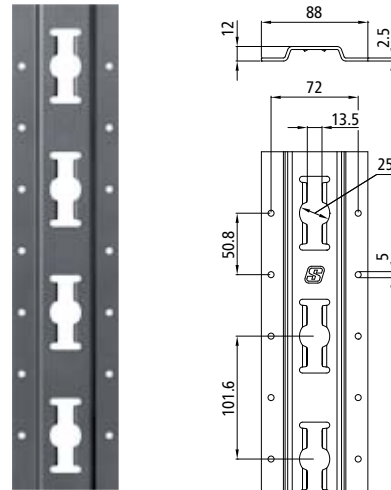
Material surface	Length [mm]	BLC at \angle		Material thickness [mm]	Weight [kg]	
		45° [daN]	90° [daN]			
Zinc plated steel	3000	800	800	2	3.9	122138000

Combi anchor track 2010

Zinc plated steel.

For vertical wall installation. Compatible with combi pegs $\varnothing 19/24$ mm and all established combi anchor track end fittings. BLC values with end fitting 585.

Material surface	Length [mm]	BLC at ∇		Material thickness [mm]	Weight [kg]	
		45°	90°			
Zinc plated steel	2440	1000	1000	2.5	4.1	122138009
Zinc plated steel	3048	1000	1000	2.5	5.1	142138008

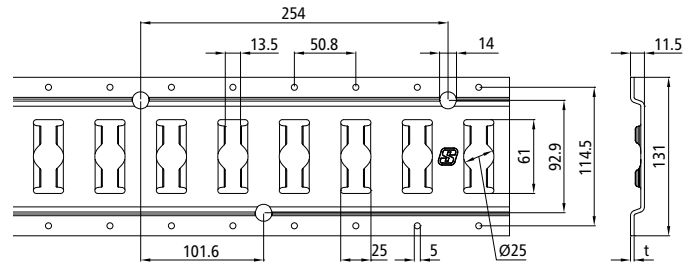


S-Line combi anchor track 3009

Steel.

For horizontal wall installation. Compatible with combi pegs $\varnothing 19/24$ mm and all established combi anchor track end fittings. BLC values with end fitting 585.

Material surface	Length [mm]	BLC at ∇		Material thickness t [mm]	Weight [kg]	
		45°	90°			
Zinc plated	3048	1000	1000	2.5	7.1	142138016
Zinc plated	3048	1200	1200	3	8.4	142138015
Galvanised	3048	1000	1000	2.5	7.2	142138017
Galvanised	6096	1000	1000	2.5	15.0	142138289

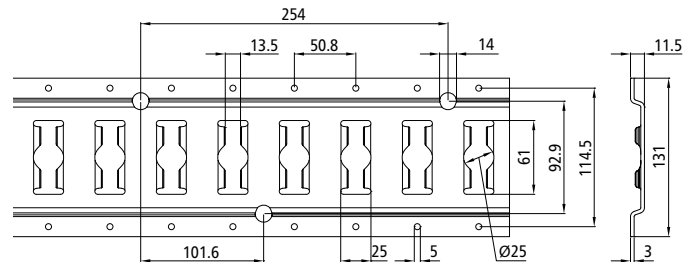


S-Line combi anchor track 3009-AL

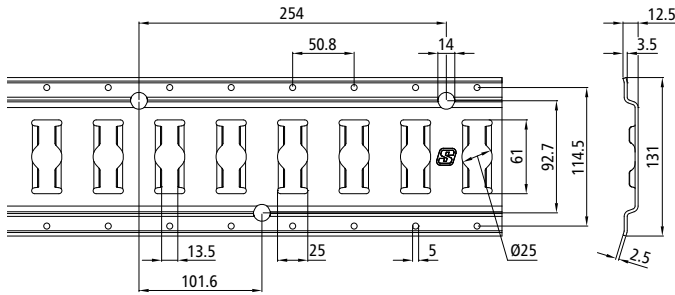
Anodised aluminium.

For horizontal wall installation. Compatible with combi pegs $\varnothing 19/24$ mm and all established combi anchor track end fittings. BLC values with end fitting 585.

Material surface	Length [mm]	BLC at ∇		Material thickness [mm]	Weight [kg]	
		45°	90°			
Anodised alum.	3048	500	500	3	2.9	142138019



➔ You will find a table on pages 60 and 61 with a list of the load restraint element compatibility with the anchor tracks.



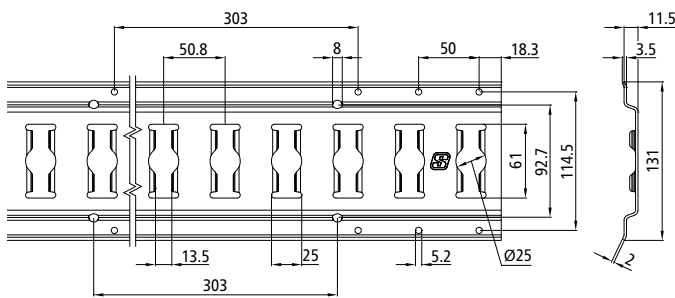
S-Line combi anchor track 3009-VK

Galvanised steel, with adhesive bonding flange.

➔ For adhesive fixing we recommend, for example, Körarop. 235. You will find this and other chemical articles in our Bodywork catalogue section.

For horizontal wall installation. Compatible with combi pegs Ø 19/24 mm and all established combi anchor track end fittings. BLC values with end fitting 585.

Material surface	Length [mm]	BLC at $\begin{matrix} 45^\circ \\ 90^\circ \end{matrix}$ [daN]		Material thickness [mm]	Weight [kg]	
Galvanised steel	6000	1000	1000	2.5	13.8	142138754



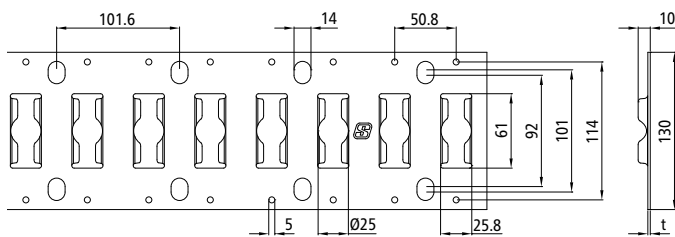
S-Line combi anchor track 3009-VK

Polished stainless steel, with adhesive bonding flange.

➔ For adhesive fixing we recommend, for example, Körarop. 235. You will find this and other chemical articles in our Bodywork catalogue section.

For horizontal wall installation. Compatible with combi pegs Ø 19/24 mm and all established combi anchor track end fittings. BLC values with end fitting 585.

Material surface	Length [mm]	BLC at $\begin{matrix} 45^\circ \\ 90^\circ \end{matrix}$ [daN]		Material thickness [mm]	Weight [kg]	
Polished stainless steel	5994	800	800	2	11.0	142138612



Combi anchor track 3009-FL

Length 3048 mm.

For horizontal wall installation. Compatible with combi pegs Ø 19/24 mm and all established combi anchor track end fittings. BLC values with end fitting 585.

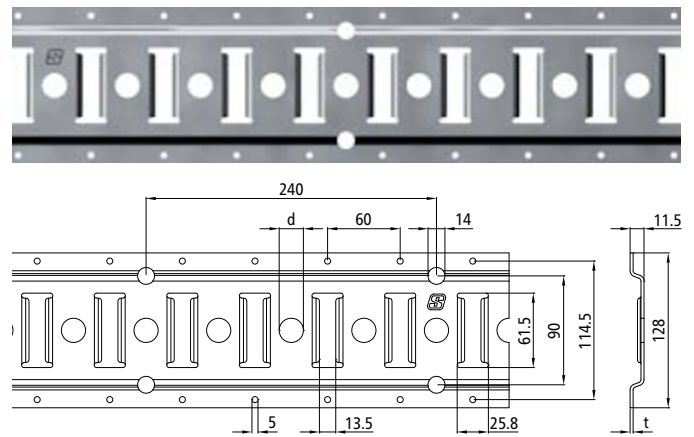
Material surface	Length [mm]	BLC at $\begin{matrix} 45^\circ \\ 90^\circ \end{matrix}$ [daN]		Material thickness t [mm]	Weight [kg]	
Stainless steel	3048	800	800	2	5.1	142138701
Zinc plated steel	3048	1000	1000	2.5	5.1	122138020

S-Line slot-hole anchor track 3008

Zinc plated steel.

For horizontal wall installation. Compatible with combi pegs $\varnothing 19/24$ mm and all established combi anchor track end fittings. BLC values with end fitting 585.

Material surface	Length [mm]	BLC at \angle		Material thickness t [mm]	\varnothing d [mm]	Weight [kg]	
		45° [daN]	90° [daN]				
Zinc plated steel	3000	1000	1000	2.5	20	6.9	142138021
Zinc plated steel	3000	1000	1000	3	25	8.1	142138023

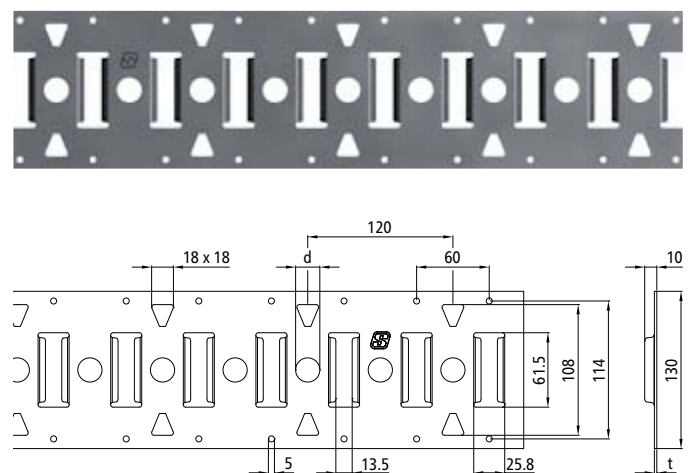


Slot-hole anchor track 3008-FL

Length 3000 mm.

For horizontal wall installation. Compatible with combi pegs $\varnothing 19/24$ mm and all established combi anchor track end fittings. BLC values with end fitting 585.

Material surface	Length [mm]	BLC at \angle		Material thickness t [mm]	\varnothing d [mm]	Weight [kg]	
		45° [daN]	90° [daN]				
Zinc plated steel	3000	1000	1000	2.5	20	6.5	122138025
Stainless steel	3000	800	800	2	20	5.9	142138700
Zinc plated steel	3000	1000	1000	2.5	25	6.5	122138026



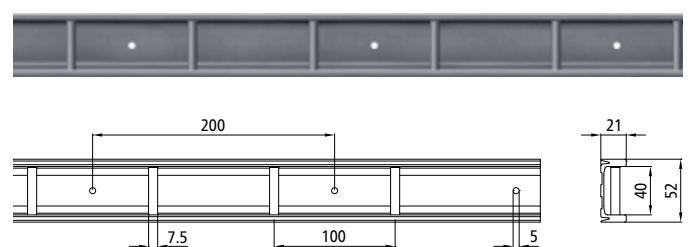
S-Line rod anchor track 3114-AL

Anodised aluminium, with adhesive bonding channel.

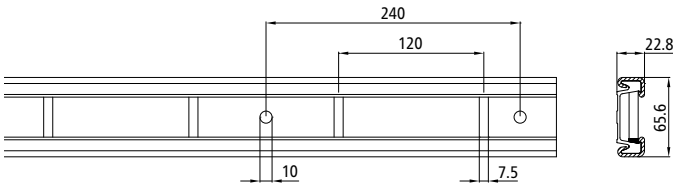
➔ Without rubber cladding, also suitable for refrigerator bodies.

For horizontal wall installation. Compatible with combi pegs $\varnothing 19/24$ mm with 9 mm slot, all established strap types and cables as well as tie-down straps with flat hooks. BLC values with end fitting 2504.

Material surface	Length [mm]	BLC at \angle		Material thickness [mm]	Weight [kg]	
		45° [daN]	90° [daN]			
Anodised alum.	6000	800	700	---	5.3	142138755



➔ You will find a table on pages 60 and 61 with a list of the load restraint element compatibility with the anchor tracks.



S-Line rod anchor track 3115-AL

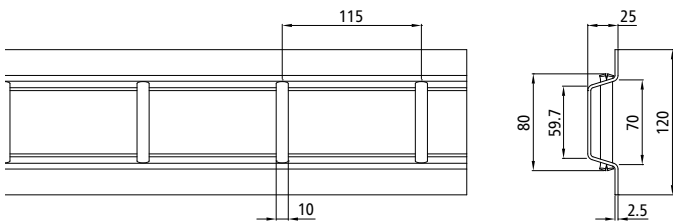
Anodised aluminium, with rubber cladding, with adhesive bonding channel.

→ Suitable for furniture transporters.

For horizontal wall installation. Compatible with combi pegs Ø 19/24 mm with 9 mm slot, all established strap types and cables as well as tie-down straps with flat hooks.

BLC values with end fitting 2504.

Material surface	Length [mm]	BLC at $\begin{matrix} 45^\circ \\ 90^\circ \end{matrix}$ [daN]		Material thickness [mm]	Weight [kg]	
Anodised alum.	3000	850	750	---	4.3	142138254
Anodised alum.	6000	850	750	---	8.6	142138269



S-Line rod anchor track 3116-AL

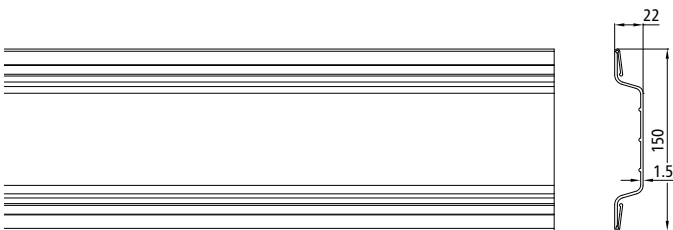
Anodised aluminium.

→ Also suitable for refrigerated bodies.

For horizontal wall installation. Compatible with all established belt types and cables as well as tie-down straps with flat hooks.

BLC values with 50 mm polyester webbing.

Material surface	Length [mm]	BLC at $\begin{matrix} 45^\circ \\ 90^\circ \end{matrix}$ [daN]		Material thickness [mm]	Weight [kg]	
Anodised alum.	6400	550	550	2.5	7.4	142138743



PWP padded lath

Aluminium profile with carpet facing.

→ Suitable for furniture transporters.

For horizontal wall installation.

Length [mm]	Weight [kg]	
4600	4.6	105131928

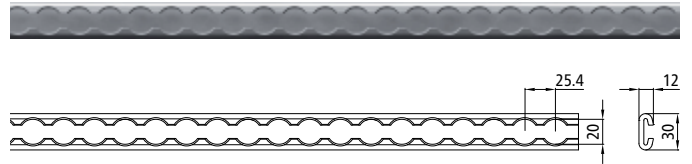
S-Line Airline profile anchor track 4000

Steel, self colour.

For floor and under-roof installation. Compatible with combi pegs $\varnothing 19/24$ mm and all established Airline end fittings.

BLC values with end fitting 571.

Material surface	Length [mm]	BLC at $\begin{matrix} \swarrow \\ 45^\circ \\ \searrow \end{matrix}$ $\begin{matrix} \swarrow \\ 90^\circ \\ \searrow \end{matrix}$ [daN]		Material thickness [mm]	Weight [kg]	
Steel, self colour	2413	2500	2500	---	3.1	142138791



S-Line Airline profile anchor rail 4002-AL

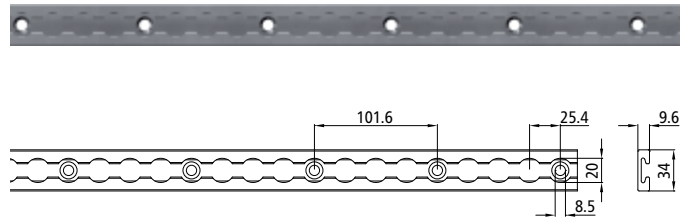
Anodised aluminium.

For horizontal and vertical wall as well as floor installation.

Compatible with combi pegs $\varnothing 19/24$ mm, all established Airline end fittings and pivoting cargo beam [142138510](#).

BLC values with end fitting 571.

Material surface	Length [mm]	BLC at $\begin{matrix} \swarrow \\ 45^\circ \\ \searrow \end{matrix}$ $\begin{matrix} \swarrow \\ 90^\circ \\ \searrow \end{matrix}$ [daN]		Material thickness [mm]	Weight [kg]	
Anodised alum.	2007	1000	1000	---	1.1	142138589
Anodised alum.	2997	1000	1000	---	1.7	142138032



S-Line Airline profile anchor rail 4002-AL

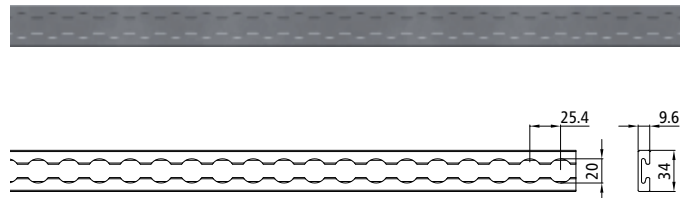
Anodised aluminium.


For horizontal and vertical wall as well as floor installation.

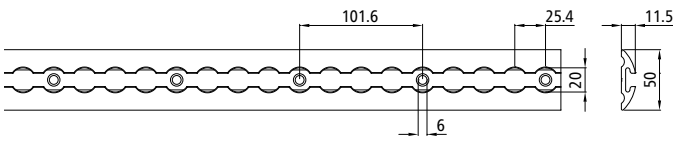
Compatible with combi pegs $\varnothing 19/24$ mm, all established Airline end fittings and pivoting cargo beam [142138510](#).

BLC values with end fitting 571.

Material surface	Length [mm]	BLC at $\begin{matrix} \swarrow \\ 45^\circ \\ \searrow \end{matrix}$ $\begin{matrix} \swarrow \\ 90^\circ \\ \searrow \end{matrix}$ [daN]		Material thickness [mm]	Weight [kg]	
Anodised alum.	5994	1000	1000	---	3.4	142138718



 You will find a table on pages 60 and 61 with a list of the load restraint element compatibility with the anchor tracks.

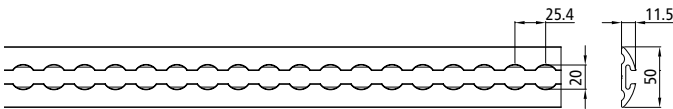


S-Line Airline profile anchor track 4001-AL

Anodised aluminium, with adhesive bonding channel.
For horizontal and vertical wall as well as floor installation.
Compatible with combi pegs \varnothing 19/24 mm, all established
Airline end fittings and pivoting cargo beams [142138521](#) and
[142138522](#).

BLC values with end fitting 571.

Material surface	Length [mm]	BLC at \star		Material thickness [mm]	Weight [kg]	
		45°	90°			
		[daN]				
Anodised alum.	2007	1000	1500	---	1.5	142138590
Anodised alum.	2997	1000	1500	---	2.7	142138031

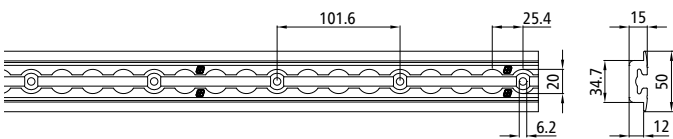


S-Line Airline profile anchor track 4001-AL

Anodised aluminium, with adhesive bonding channel.
For horizontal and vertical wall as well as floor installation.
Compatible with combi pegs \varnothing 19/24 mm, all established
Airline end fittings and pivoting cargo beams [142138521](#) and
[142138522](#).

BLC values with end fitting 571.

Material surface	Length [mm]	BLC at \star		Material thickness [mm]	Weight [kg]	
		45°	90°			
		[daN]				
Anodised alum.	5994	1000	1500	---	4.5	142138719



S-Line Airline profile anchor track 4004-AL

Anodised aluminium.
For floor installation. Compatible with combi pegs \varnothing 19/24 mm
and all established Airline end fittings.
BLC values with end fitting 571.

Material surface	Length [mm]	BLC at \star		Material thickness [mm]	Weight [kg]	
		45°	90°			
		[daN]				
Anodised alum.	2997	1000	1000	---	2.8	142138034

S-Line Airline profile anchor track 4008-AL

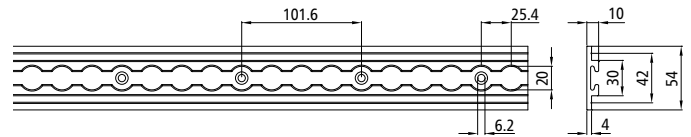
Anodised aluminium.

For horizontal and vertical wall as well as floor and under-roof installation. Compatible with combi pegs Ø 19/24 mm, all established Airline end fittings and pivoting cargo beam

142138510.

BLC values with end fitting 571.

Material surface	Length [mm]	BLC at \angle		Material thickness [mm]	Weight [kg]	
		45°	90°			
Anodised alum.	2997	1000	1000	4	2.2	142138712



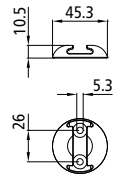
S-Line Airline lashing plate point

Aluminium.

Compatible with simple airline fitting 570 and simple Airline fitting 600.

BLC values with end fitting 570.

Material surface	Ø [mm]	BLC at \angle		Material thickness [mm]	Weight [kg]	
		45°	90°			
Aluminium	45.3	500	500	---	0.02	142138703



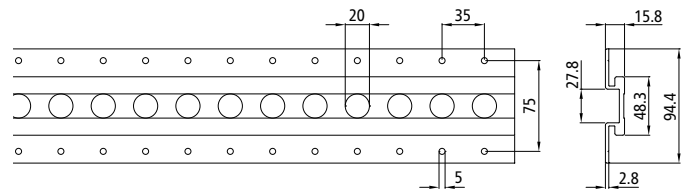
S-Line guide rail 5000-AL

Anodised aluminium.

For horizontal wall installation. Compatible with combi pegs Ø 19/24 mm. In combination with clamping slider for securing roll containers or similar.

BLC values with end fitting 5007.

Material surface	Length [mm]	BLC at \angle		Material thickness [mm]	Weight [kg]	
		45°	90°			
Anodised alum.	6000	500	500	2.8	7.5	142138720

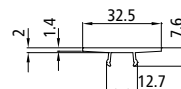


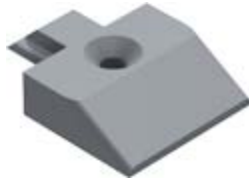
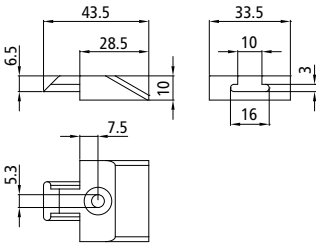
Anchor track accessories

S-Line Airline anchor track cover strip

Compatible with all Airline anchor tracks.

Length [mm]	Material	Colour	Weight [kg]	
3000	Plastic	Black	0.33	142138750



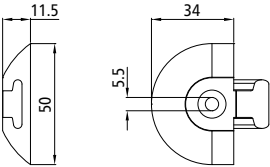


S-Line Airline anchor track end cap

Plastic.

→ End piece for Airline profile anchor track 4002-AL.

Colour	Weight [kg]	
Grey	0.02	142138721

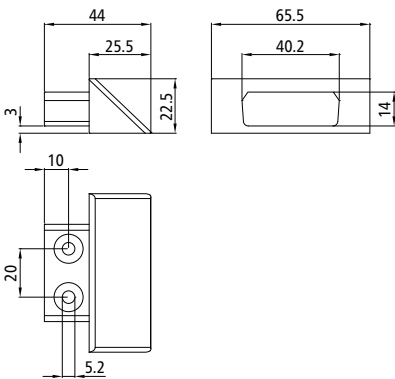


S-Line Airline anchor track end cap

Plastic.

→ End piece for Airline profile anchor track 4001-AL.

Colour	Weight [kg]	
Grey	0.013	142138599

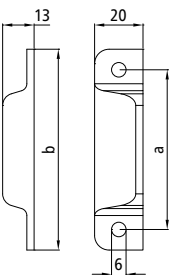


S-Line rod anchor track end cap

Plastic.

→ End piece for rod anchor track 3115-AL.

Colour	Weight [kg]	
Grey	0.013	142138722



Anchor track end cap

Plastic.

→ End piece **122138006** for round hole anchor tracks 1804, 1805 and 1806, end piece **122138018** for all surface mounted anchor track types 3009 and 3008.

Dim a [mm]	Dim b [mm]	Weight [kg]	
66	83	0.05	122138006
115	131	0.09	122138018

Round shoring bars

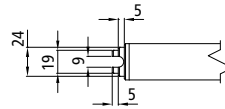


S-Line round shoring bars

Rigid, application range 2440-2520 mm, tube Ø42 mm, with combi pegs Ø 19/24 mm with 9 mm slot.

→ Can be shortened to 1000 mm overall length.

Finish	Shoring force [daN]	Weight [kg]	
Zinc plated steel	500	7.8	142138500
Zinc plated steel with rubber cladding	500	7.9	142138774
Aluminium	300	4.7	142138501
Aluminium with rubber cladding	300	4.8	142138779



Illustrated above: round shoring bar with and without rubber cladding

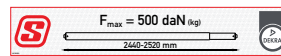


Illustration: label 142138500/774



Illustration: label 142138501/779

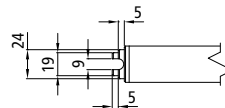


S-Line round shoring bars

Rigid, application range 1000-3100 mm, tube Ø42 mm, can be cut shorter, with combi pegs Ø 19/24 mm with 9 mm slot (one side loose).

→ Can be shortened to 1000 mm overall length.

Finish	Shoring force [daN]	Weight [kg]	
Zinc plated steel	500	9.9	142138502
Zinc plated steel with rubber cladding	500	10.0	142138775
Aluminium	300	5.4	142138503
Aluminium with rubber cladding	300	5.5	142138780



Illustrated above: round shoring bar with and without rubber cladding

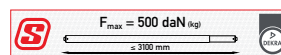


Illustration: label 142138502/775

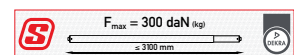


Illustration: label 142138503/780

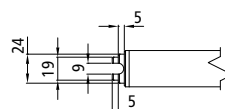


S-Line round shoring bars

Adjustable, adjustment range 1600-2000 mm, tube Ø42 mm, with combi pegs Ø 19/24 mm with 9 mm slot.

→ Can be shortened to 1000 mm overall length.

Finish	Shoring force [daN]	Weight [kg]	
Aluminium	400	3.6	142138597
Aluminium with rubber cladding	400	3.7	142138778



Illustrated above: round shoring bar with and without rubber cladding

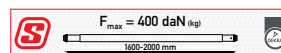


Illustration: label 142138597/778



Illustrated above: round shoring bar with and without rubber cladding

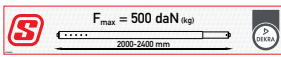
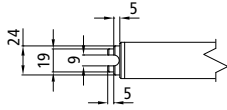


Illustration: label 142138504/776

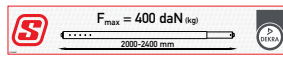


Illustration: label 142138505/781

S-Line round shoring bars

Adjustable, adjustment range 2000-2400 mm, tube Ø42 mm, with combi pegs Ø 19/24 mm with 9 mm slot.

→ Can be shortened to 1000 mm overall length.

Finish	Shoring force [daN]	Weight [kg]	
Zinc plated steel	500	8.3	142138504
Zinc plated steel with rubber cladding	500	8.4	142138776
Aluminium	400	4.3	142138505
Aluminium with rubber cladding	400	4.4	142138781



Illustrated above: round shoring bar with and without rubber cladding

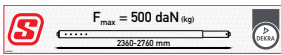
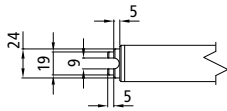


Illustration: label 142138506/777

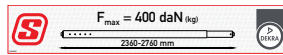


Illustration: label 142138507/782

S-Line round shoring bars

Adjustable, adjustment range 2360-2760 mm, tube Ø42 mm, with combi pegs Ø 19/24 mm with 9 mm slot.

→ Can be shortened to 1000 mm overall length.

Finish	Shoring force [daN]	Weight [kg]	
Zinc plated steel	500	9.3	142138506
Zinc plated steel with rubber cladding	500	9.4	142138777
Aluminium	400	4.9	142138507
Aluminium with rubber cladding	400	5.0	142138782

Rectangular shoring beams

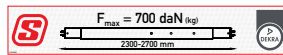
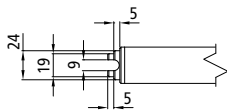


Illustration: label 142138508

S-Line Rectangular shoring beam

Adjustable, adjustment range 2300-2700 mm, tube

50 x 50 mm, with combi pegs Ø 19/24 mm with 9 mm slot.

→ Can be shortened to 1000 mm overall length.

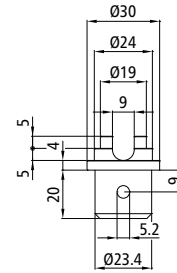
Finish	Shoring force [daN]	Weight [kg]	
Zinc plated steel	700	11.5	142138508

S-Line combi pegs

Zinc plated steel, $\varnothing 19/24$ mm with 9 mm slot.

142138730

→ Fits telescope tube (inner) of **142138501**, **142138503**, **142138597**, **142138505** and **142138507**.

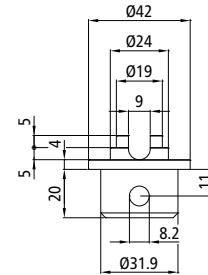


S-Line combi pegs

Zinc plated steel, $\varnothing 19/24$ mm with 9 mm slot.

142138731

→ Fits bracing tube (outer) of **142138501** and **142138503**.

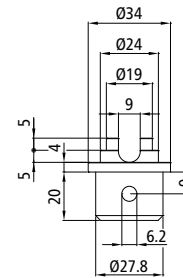


S-Line combi pegs

Zinc plated steel, $\varnothing 19/24$ mm with 9 mm slot.

142138732

→ Fits telescope tube (inner) of **142138500**, **142138502**, **142138504** and **142138506**.

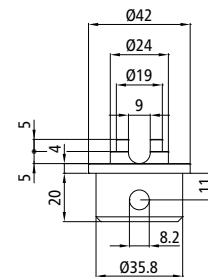


S-Line combi pegs

Zinc plated steel, $\varnothing 19/24$ mm with 9 mm slot.

142138733

→ Fits bracing tube (outer) of **142138500** and **142138502**.

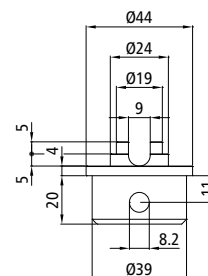


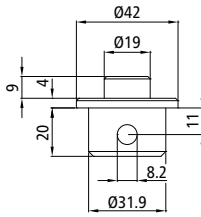
S-Line combi pegs

Zinc plated steel, $\varnothing 19/24$ mm with 9 mm slot.

142138734

→ Fits telescope tube (inner) of **142138508**.



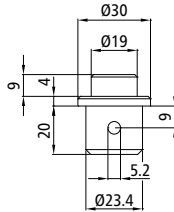


S-Line pegs

Zinc plated steel, Ø19 mm, cylindrical.

142138761

→ Fits bracing tube (outer) of **142138501** and **142138503**.

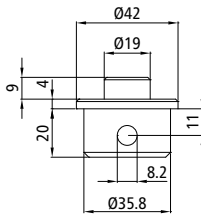


S-Line pegs

Zinc plated steel, Ø19 mm, cylindrical.

142138762

→ Fits telescope tube (inner) of **142138501**, **142138503**, **142138597**, **142138505** and **142138507**.

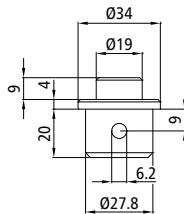


S-Line pegs

Zinc plated steel, Ø19 mm, cylindrical.

142138763

→ Fits bracing tube (outer) of **142138500** and **142138502**.

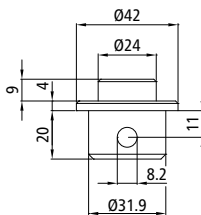


S-Line pegs

Zinc plated steel, Ø19 mm, cylindrical.

142138764

→ Fits telescope tube (inner) of **142138500**, **142138502**, **142138504** and **142138506**.

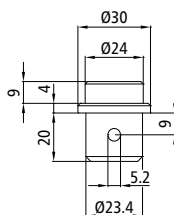


S-Line pegs

Zinc plated steel, Ø24 mm, cylindrical.

142138765

→ Fits bracing tube (outer) of **142138501** and **142138503**.



S-Line pegs

Zinc plated steel, Ø24 mm, cylindrical.

142138766

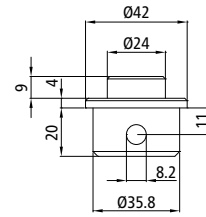
→ Fits telescope tube (inner) of **142138501**, **142138503**, **142138597**, **142138505** and **142138507**.

S-Line pegs

Zinc plated steel, Ø24 mm, cylindrical.

142138767

→ Fits bracing tube (outer) of **142138500** and **142138502**.

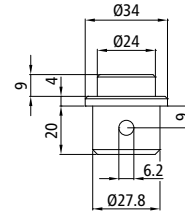


S-Line pegs

Zinc plated steel, Ø24 mm, cylindrical.

142138768

→ Fits telescope tube (inner) of **142138500**, **142138502**, **142138504** and **142138506**.

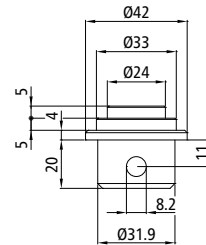


S-Line combi pegs

Zinc plated steel, Ø24/33 mm, cylindrical.

142138769

→ Fits bracing tube (outer) of **142138501** and **142138503**.

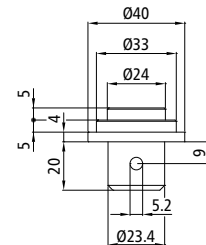


S-Line combi pegs

Zinc plated steel, Ø24/33 mm, cylindrical.

142138770

→ Fits telescope tube (inner) of **142138501**, **142138503**, **142138597**, **142138505** and **142138507**.

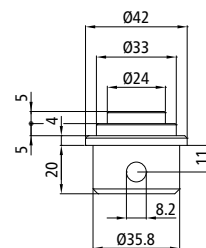


S-Line combi pegs

Zinc plated steel, Ø24/33 mm, cylindrical.

142138771

→ Fits bracing tube (outer) of **142138500** and **142138502**.

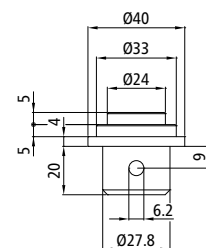


S-Line combi pegs

Zinc plated steel, Ø24/33 mm, cylindrical.

142138772

→ Fits telescope tube (inner) of **142138500**, **142138502**, **142138504** and **142138506**.



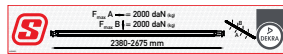


Illustration: label 142138511

S-Line pivoting cargo beam for Schmitz rails

Aluminium, application range 2380-2675 mm, both ends with extendable aluminium end pieces, $\square 66 \times 84 \text{ mm}$ (w x h).

→ Can be shortened to 1000 mm overall length.

Shoring force A→ [daN]	Load capacity B↓ [daN]	Weight [kg]	
2000	2000	7.7	142138511

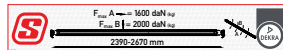


Illustration: label 142138510

S-Line pivoting cargo beam for flat Airline rail

Aluminium, application range 2390-2670 mm, both ends with extendable aluminium end pieces, $\square 66 \times 84 \text{ mm}$ (w x h).

→ Can be shortened to 1000 mm overall length.

Shoring force A→ [daN]	Load capacity B↓ [daN]	Weight [kg]	
1600	2000	7.7	142138510

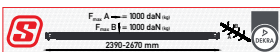


Illustration: label 142138521

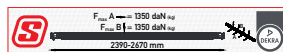


Illustration: label 142138522

S-Line pivoting cargo beam for convex Airline rail

Aluminium, application range 2390-2670 mm, both ends with extendable aluminium end pieces, $\square 66 \times 84 \text{ mm}$ (w x h).

→ Can be shortened to 1000 mm overall length.

Shoring force A→ [daN]	Load capacity B↓ [daN]	Weight [kg]	
1000	1000	7.6	142138521
1350	1350	8.4	142138522

➔ You will find tables on pages 60 and 63 with lists of the compatibility of crossbars and cargo beams with anchor tracks and aluminium profiles with the Airline system.



S-Line pivoting cargo beam for steel guide rail

Aluminium, application range 2440-2720 mm, both ends with extendable steel end pieces, $\square 66 \times 84$ mm (w x h).

→ For steel guide rail, shortenable to 1000 mm overall length.

Shoring force A→ [daN]	Load capacity B↓ [daN]	Weight [kg]	
1650	1250	10.0	142138725

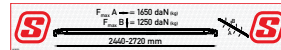


Illustration: label 142138725



S-Line cargo beam for combi anchor tracks

Application range 2310-2590 mm, aluminium, with extendable steel end pieces, tube $\square 66 \times 84$ mm (w x h).

→ Can be shortened to 1000 mm overall length.

Shoring force A→ [daN]	Load capacity B↓ [daN]	Weight [kg]	
1650	1250	10.0	142138073
1650	1700	10.0	142138074

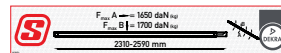


Illustration: label 142138074

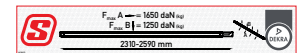


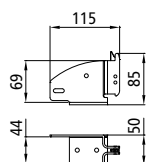
Illustration: label 142138073

S-Line beam shoe 1845

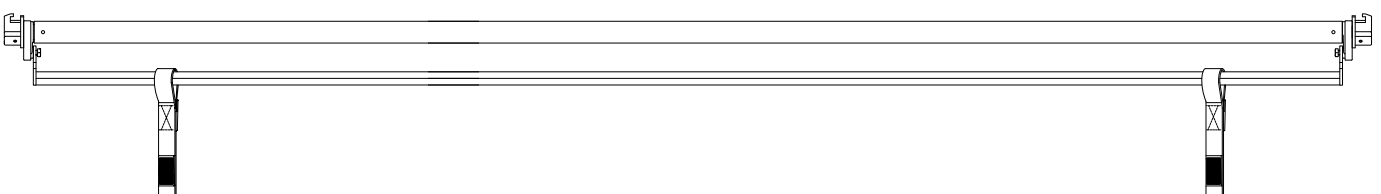
Zinc plated, weight 0.4 kg.

142138085

→ The S-Line beam shoe can be used for producing extra demountable loading levels or for combining with 70 x 40 mm beams.



Garment rail



S-Line garment rail with plastic end piece

Chrome tube with plastic end caps, application range 2420-2510 mm, spring retraction, load 350 daN, swing-over bar with two Velcro fasteners.

142138742

→ For keyhole system, half and fully flanged.

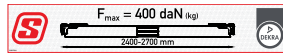
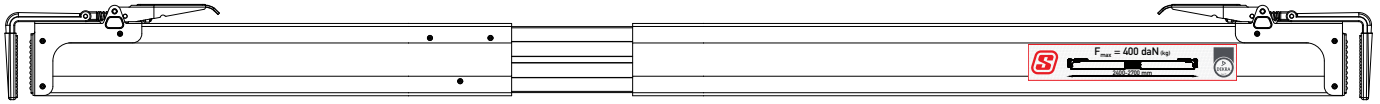


Illustration: label 142623144

S-Line extendable Cargo plank with steel end piece

Application range 2400-2700 mm, aluminium, maximum load capacity 400 daN. With slip-resistant protective caps in the inner and outer clamping area. Clamping range 21-36 mm, weight 7.95 kg.

142623144

→ Can be shortened to 1400 mm overall length.



S-Line extendable cargo plank

Application range 1920-2720 mm, tube $\square 40 \times 40$ mm, clamping area 21-36 mm, zinc plated steel, weight 7 kg.

142138583

→ Can be shortened to 1200 mm overall length.

Cargo plank accessories



S-Line end piece for cargo plank

Clamping range 21-36 mm max. load 400 daN, zinc plated steel, weight 2.36 kg.

→ Compatible with profile 125 x 30 mm.

142102144



S-Line hanging strap with hook

Webbing width 25 mm, length approx. 300 mm, weight 0.09 kg.

142138723

For holding/stowing cargo planks on the side boards or side planks.

Clamping bars

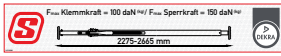


Illustration: label 142138088

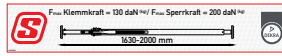


Illustration: label 142138596

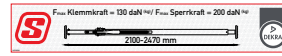


Illustration: label 142138296

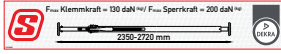


Illustration: label 142138089

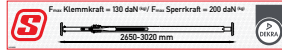


Illustration: label 142138509

S-Line aluminium clamping bars

With spring, both ends with anti-slip rubber foot.

→ Can be shortened to 1200 mm overall length.



Application range [mm]	Tube Ø [mm]	Clamping force [daN]	Shoring force [daN]	Weight [kg]	
2275-2665	38	100	150	4.0	142138088
1630-2000	42	130	200	4.1	142138596
2100-2470	42	130	200	5.0	142138296
2350-2720	42	130	200	5.3	142138089
2650-3020	42	130	200	5.3	142138509



S-Line steel clamping bar

With spring, both ends with anti-slip rubber foot, zinc plated steel.

Application range [mm]	Rect. tube [mm]	Clamping force [daN]	Shoring force [daN]	Weight [kg]	
1880-2850	35x35	130	200	6.75	142138584

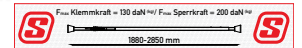
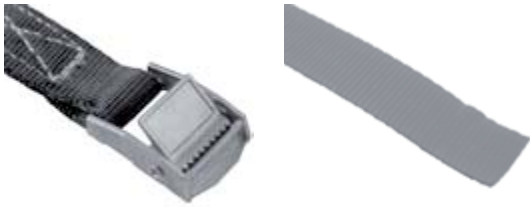


Illustration: label 142138584

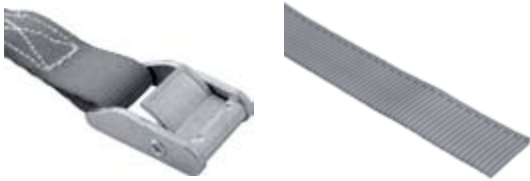


Illustrations: cam buckle K25L and strap end

S-Line cam buckle strap 250

One-piece, cam buckle K25L, webbing width 25 mm, webbing colour red, GS & TÜV tested, elongation <5%.

Length [mm]	Permissible loads [daN]	
5000	250	142138523

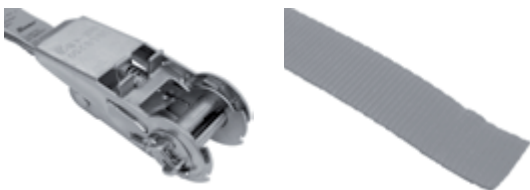


Illustrations: cam buckle K25S and strap end

S-Line cam buckle strap 300

One-piece, cam buckle K25S, webbing width 25 mm, webbing colour red, GS & TÜV tested, elongation <5%.

Length [mm]	Permissible loads [daN]	
3000	300	142138524

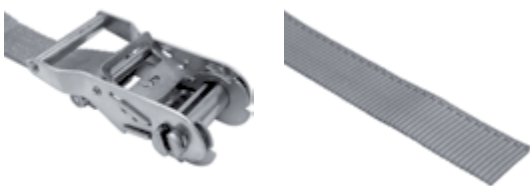


Illustrations: ratchet R25L1 and strap end

S-Line tie-down strap 510

One-piece, ratchet R25L1, webbing width 25 mm, webbing colour red, elongation <5%.

Length [mm]	SHF [daN]	STF [daN]	Permissible loads [daN]	
6000	50	100	500	142138525



Illustrations: ratchet R25B1 and strap end

S-Line tie-down strap 1515

One-piece, ratchet R25B1, webbing width 25 mm, webbing colour red, elongation <5%.

Length [mm]	SHF [daN]	STF [daN]	Permissible loads [daN]	
4000	50	150	1500	142138526
6000	50	150	1500	142138527



Illustrations: ratchet R50E1 and strap end



S-Line tie-down strap 5035

One-piece, ratchet R50E1, webbing width 50 mm, webbing colour red, GS & TÜV tested, elongation <5%.

Length [mm]	SHF [daN]	STF [daN]	Permissible loads [daN]	
4000	50	350	5000	142138724

S-Line tie-down strap 3018

Two-piece, ratchet R35S1, single wire J hook 3502, webbing width 35 mm, webbing colour red, elongation <5%.



Length [mm]	FE [m]	LE [m]	SHF [daN]	STF [daN]	Permissible loads [daN]		
							
4000	0.3	3.7	50	180	1500	3000	142138535
6000	0.3	5.7	50	180	1500	3000	142138536



Illustrations: ratchet R35S1 and single wire J hook 3502

S-Line cam buckle strap 300

Two-piece, cam buckle K25S, double wire J hook 2503, webbing width 25 mm, webbing colour blue, elongation <5%.

Length [mm]	FE [m]	LE [m]	Permissible loads [daN]		
					
6000	0.3	5.7	150	300	142138747



Illustrations: cam buckle K25S and double wire J hook 2503

S-Line tie-down strap 1515

Two-piece, ratchet R25B1, double wire J hook 2503, webbing width 25 mm. GS & TÜV tested, elongation <5%.

Length [mm]	Colour	FE [m]	LE [m]	SHF [daN]	STF [daN]	Permissible loads [daN]		
								
4000	red	0.3	3.7	50	150	750	1500	142138530
6000	red	0.3	5.7	50	150	750	1500	142138531
6000	blue	0.3	5.7	50	150	750	1500	142138749



Illustrations: ratchet R25B1 and double wire J hook 2503

S-Line tie-down strap 2015

Two-piece, ratchet R35B1 and double wire J hook 3501, webbing width 35 mm. Webbing colour red, GS & TÜV tested, elongation <5%.



Length [mm]	FE [m]	LE [m]	SHF [daN]	STF [daN]	Permissible loads [daN]		
							
6000	0.3	5.7	50	150	1000	2000	142138534



Illustrations: ratchet R35B1 and double wire J hook 3501

S-Line tie-down strap 4035

Two-piece, ratchet R50E1 and double wire J hook 5002, label inside, webbing width 50 mm, webbing colour yellow, GS & TÜV tested, elongation <5%.

Length [mm]	FE [m]	LE [m]	SHF [daN]	STF [daN]	Permissible loads [daN]		
							
8000	0.5	7.5	50	350	2000	4000	142138569
9000	0.5	8.5	50	350	2000	4000	142138753
10000	0.5	9.5	50	350	2000	4000	142138248



Illustrations: ratchet R50E1 and double wire J hook 5002



 All tie-down straps are manufactured and tested to DIN EN 12195-2.

© 2015 SUER GmbH Load Restraint Catalogue – Subject to technical changes without notice. Errors and omissions excepted.



S-Line tie-down strap 4000/loose end

One-piece, tie-down strap loose end with double wire J hook 5002, webbing width 50 mm, webbing colour orange, label inside, GS & TÜV tested, elongation <5%.



Length [mm]	FE [m]	LE [m]	Permissible loads [daN]		
					
2500	---	2.5	2000	4000	142138709
9500	---	9.5	2000	4000	142138710



Illustrations: ratchet R50E1 and double wire J hook 5002

S-Line tie-down strap 5035

Two-piece, ratchet R50E1 and double wire J hook 5002, webbing width 50 mm, webbing colour red, label inside, GS & TÜV tested, elongation <5%.


Length [mm]	FE [m]	LE [m]	SHF [daN]	STF [daN]	Permissible loads [daN]		
							
8000	0.5	7.5	50	350	2500	5000	142138239
9000	0.5	8.5	50	350	2500	5000	142138623
10000	0.5	9.5	50	350	2500	5000	142138240
12000	0.5	11.5	50	350	2500	5000	142138247
15000	0.5	14.5	50	350	2500	5000	142138580



Illustrations: Ergo pull-type ratchet E50E1 and double wire J hook 5002

S-Line Ergo tie-down strap 5050

Two-piece, Ergo pull-type ratchet E50E1 and double wire J hook 5002, webbing width 50 mm, webbing colour red, label inside, GS & TÜV tested, elongation <5%.



Length [mm]	FE [m]	LE [m]	SHF [daN]	STF [daN]	Permissible loads [daN]		
							
8000	0.5	7.5	50	500	2500	5000	142131852
9000	0.5	8.5	50	500	2500	5000	142138625
10000	0.5	9.5	50	500	2500	5000	142131854
12000	0.5	11.5	50	500	2500	5000	142131855



Illustrations: Ergo pull-type ratchet E50E1 and double wire J hook with safety catch 5005



S-Line Ergo tie-down strap 5050

Two-piece, Ergo pull-type ratchet E50E1 and double wire J hook with safety catch 5005, webbing width 50 mm, webbing colour red, label inside, GS & TÜV tested, elongation <5%.

Length [mm]	FE [m]	LE [m]	SHF [daN]	STF [daN]	Permissible loads [daN]		
							
8000	0.5	7.5	50	500	2500	5000	142138588
8500	0.5	8.0	50	500	2500	5000	142138739

S-Line Ergo tie-down strap 5050/fixed end

One-piece, Ergo pull-type ratchet E50E1 and double wire J hook 5002, webbing width 50 mm, webbing colour red, label inside, GS & TÜV tested, elongation <5%.


Length [mm]	FE [m]	LE [m]	SHF [daN]	STF [daN]	Permissible loads [daN]		142131858
							
500	0.5	---	50	500	2500	5000	



Illustrations: ratchet E50E1 and double wire J hook 5002

S-Line Ergo tie-down strap 5000/loose end



One-piece, tie-down strap loose end with double wire J hook 5002, webbing width 50 mm, webbing colour red, label inside, GS & TÜV tested, elongation <5%.

Length [mm]	FE [m]	LE [m]	Permissible loads [daN]		142138568
					
7500	---	7.5	2500	5000	
9500	---	9.5	2500	5000	142131859



S-Line cam buckle strap 300

Two-piece, cam buckle K25S, simple Airline fitting 570, sewn-in safety seam, webbing width 25 mm, webbing colour red, elongation <5%.



Length [mm]	FE [m]	LE [m]	Permissible loads [daN]		142138574
					
5000	0.5	4.5	150	300	



Illustrations: cam buckle K25S and simple Airline fitting 570

S-Line tie-down strap 1515

Two-piece, cam buckle R25B1, simple Airline fitting 570, sewn-in safety seam, webbing width 25 mm, webbing colour red, elongation <5%.



Length [mm]	FE [m]	LE [m]	SHF [daN]	STF [daN]	Permissible loads [daN]		142138575
							
3400	0.2	3.2	50	150	750	1500	
5000	0.5	4.5	50	150	750	1500	142138573



Illustrations: cam buckle R25B1 and simple Airline fitting 570

S-Line cam buckle strap 300

Two-piece, cam buckle K25S, simple Airline fitting 600, webbing width 25 mm, webbing colour blue, elongation <5%.

Length [mm]	FE [m]	LE [m]	Permissible loads [daN]		142138746
					
1100	0.1	1.0	150	300	



Illustrations: cam buckle K25S and simple Airline fitting 600



➔ All tie-down straps are manufactured and tested to DIN EN 12195-2.



Illustrations: ratchet R25L1 and simple Airline fitting 600

S-Line tie-down strap 510

Two-piece, ratchet R25L1, simple Airline fitting 600, webbing width 25 mm, webbing colour blue, elongation <5%.



Length [mm]	FE [m]	LE [m]	SHF [daN]	STF [daN]	Permissible loads [daN]		142138748
							
1100	0.1	1.0	50	100	250	500	



Illustrations: ratchet R25B1 and double Airline fitting 571

S-Line tie-down strap 1515

Two-piece, ratchet R25B1, double Airline fitting 571, sewn-in safety seam, webbing width 25 mm, webbing colour red, elongation <5%.



Length [mm]	FE [m]	LE [m]	SHF [daN]	STF [daN]	Permissible loads [daN]		142138576
							
6000	0.5	5.5	50	150	750	1500	



Illustrations: ratchet R50B1 and double Airline fitting 571

S-Line tie-down strap 2015

Two-piece, ratchet R50B1, double Airline fitting 571, sewn-in safety seam, webbing width 50 mm, webbing colour red, elongation <5%.

Length [mm]	FE [m]	LE [m]	SHF [daN]	STF [daN]	Permissible loads [daN]		142138577
							
3000	0.3	2.7	50	150	1000	2000	
5000	0.5	4.5	50	150	1000	2000	142138578



Illustrations: ratchet R50S1 and fourfold Airline fitting 579

Tie-down strap 5025

Two-piece, ratchet R50S1, fourfold Airline fitting 579, webbing width 50 mm, webbing colour red, label inside, GS & TÜV tested, elongation <5%.

➔ Tie-down strap for head lashing system. Loose end with 200 mm loop, inserted through the slotted bolt in the ratchet. Fixed and loose ends can only be separated from each other with difficulty.



Length [mm]	FE [m]	LE [m]	SHF [daN]	STF [daN]	Permissible loads [daN]		605646150
							
6000	1.0	5.0	50	210	1125	2500	



Illustrations: ratchet R35S1 and flat carbine hook 3503



S-Line tie-down strap 3018

Two-piece, ratchet R35S1, flat carbine hook 3503, webbing width 35 mm, webbing colour red, elongation <5%.

Length [mm]	FE [m]	LE [m]	SHF [daN]	STF [daN]	Permissible loads [daN]		142138537
							
4000	0.3	3.7	50	180	1500	3000	
6000	0.3	5.7	50	180	1500	3000	142138538

S-Line tie-down strap 5035

Two-piece, ratchet R50E1 and flat carbine hook 5004, webbing width 50 mm, webbing colour red, label inside, GS & TÜV tested, elongation <5%.



Length [mm]	FE [m]	LE [m]	SHF [daN]	STF [daN]	Permissible loads [daN]		
							
8000	0.5	7.5	50	350	2500	5000	142138544
10000	0.5	9.5	50	350	2500	5000	142138545



Illustrations: ratchet R50E1 and flat carbine hook 5004

S-Line tie-down strap 3018

Two-piece, ratchet R35B1, carbine hook 3504, webbing width 35 mm, webbing colour red, elongation <5%.



Length [mm]	FE [m]	LE [m]	SHF [daN]	STF [daN]	Permissible loads [daN]		
							
4000	0.3	3.7	50	150	1500	3000	142138716
6000	0.3	5.7	50	150	1500	3000	142138717



Illustrations: ratchet R35B1 and carbine hook 3504

S-Line tie-down strap 5035

Two-piece, ratchet R50E1 and triangular carbine hook 5009, webbing width 50 mm, webbing colour red, label inside, GS & TÜV tested, elongation <5%.

Length [mm]	FE [m]	LE [m]	SHF [daN]	STF [daN]	Permissible loads [daN]		
							
8000	0.5	7.5	50	350	2500	5000	142138713
10000	0.5	9.5	50	350	2500	5000	142138714
12000	0.5	11.5	50	350	2500	5000	142138715



Illustrations: ratchet R50E1 and triangular carbine hook 5009

Tie-down strap 625

Two-piece, ratchet R25B1, flat hook 2502, webbing width 25 mm, webbing colour red, elongation <7%.



Length [mm]	FE [m]	LE [m]	SHF [daN]	STF [daN]	Permissible loads [daN]		
							
4000	0.5	3.5	50	250	300	600	122138256



Illustrations: ratchet R25B1 and flat hook 2502

S-Line tie-down strap 615

Two-piece, ratchet R25B1, S-hook 2501 with PVC cladding, webbing width 25 mm, webbing colour red, elongation <5%.

Length [mm]	FE [m]	LE [m]	SHF [daN]	STF [daN]	Permissible loads [daN]		
							
2000	0.3	1.7	50	150	300	600	142138528
4000	0.3	3.7	50	150	300	600	142138529



Illustrations: ratchet R25B1 and S-hook 2501





All tie-down straps are manufactured and tested to DIN EN 12195-2.



Illustrations: ratchet R25B1 and flat hook 2504

S-Line tie-down strap 1015

Two-piece, ratchet R25B1, flat hook 2504 with safety catch for rod anchor track Ø 8 mm, webbing width 25 mm, webbing colour rot, elongation <7%.



Length [mm]	FE [m]	LE [m]	SHF [daN]	STF [daN]	Permissible loads [daN]		
							
4000	0.3	3.7	50	150	500	1000	142138532
6000	0.3	5.7	50	150	500	1000	142138533



Illustrations: ratchet R50B1 and round hole end fitting 5008

Tie-down strap 1026

Two-piece, ratchet R50B1, round hole end fitting 5007 (for Ø 20 mm hole) or 5008 (for Ø 25 mm hole), webbing width 45 mm, webbing colour red, elongation <7%.



For hole Ø [mm]	Length [mm]	FE [m]	LE [m]	SHF [daN]	STF [daN]	Permissible loads [daN]		
								
20	5000	0.5	4.5	50	260	500	1000	122138231
25	5000	0.5	4.5	50	260	500	1000	122138234

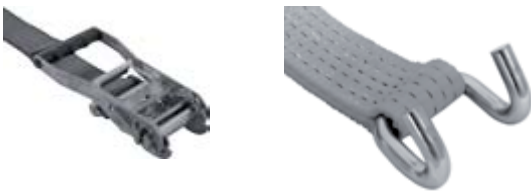


Illustrations: ratchet R50B1 and end fitting 5001

S-Line tie-down strap 2015

Two-piece, ratchet R50B1, end fitting 5001, webbing width 50 mm, webbing colour red, elongation <5%.



Length [mm]	FE [m]	LE [m]	SHF [daN]	STF [daN]	Permissible loads [daN]		
							
3000	0.5	2.5	50	150	1000	2000	142138539
4000	0.5	3.5	50	150	1000	2000	142138540
5000	0.5	4.5	50	150	1000	2000	142138541
10000	0.5	9.5	50	150	1000	2000	142138572



Illustrations: ratchet R50E1 and claw hook 5003



S-Line tie-down strap 5035

Two-piece, ratchet R50E1 and claw hook 5003, webbing width 50 mm, webbing colour red, label inside, GS & TÜV tested, elongation <5%.

Length [mm]	FE [m]	LE [m]	SHF [daN]	STF [daN]	Permissible loads [daN]		
							
8000	0.5	7.5	50	350	2500	5000	142138542
10000	0.5	9.5	50	350	2500	5000	142138543

S-Line tie-down strap 5035

Two-piece, ratchet R50E1 and Krone hook 5006, webbing width 50 mm, webbing colour red, label inside, GS & TÜV tested, elongation <5%.

Length [mm]	FE [m]	LE [m]	SHF [daN]	STF [daN]	Permissible loads [daN]		
							
8000	1.0	7.0	50	350	2500	5000	142131860
10000	1.0	9.0	50	350	2500	5000	142131861



Illustrations: ratchet R50E1 and Krone hook 5006

Tie-down strap 2021/headboard anchoring

Two-piece, ratchet R50S1, double wire J hook with safety catch 5005 and fourfold Airline fitting 579, webbing width 50 mm, webbing colour red, label inside, GS & TÜV tested, elongation <5%.

➔ Special strap for anchoring off headboards. Loose end with 200 mm loop, inserted through the slotted bolt in the ratchet. Fixed and loose ends can only be separated from each other with difficulty.

Length [mm]	FE [m]	LE [m]	SHF [daN]	STF [daN]	Permissible loads [daN]		
							
4500	0.5	4.0	50	210	1125		605646140



Illustrations: ratchet R50S1, double wire J hook with safety catch 5005 and fourfold Airline fitting 579

Car transport tie-down straps

S-Line car transport tie-down strap 3018

Three-part, ratchet R35B1, single wire J hook 3502 and 400 mm cross-strap, elongation <4%, webbing width 35 mm, webbing colour orange, label inside.

Security only in conjunction with front/rear wheel chocks.

Length [mm]	FE [m]	LE [m]	SHF [daN]	STF [daN]	Permissible loads [daN]		
							
3300	0.3	3	50	180	1500		142138586



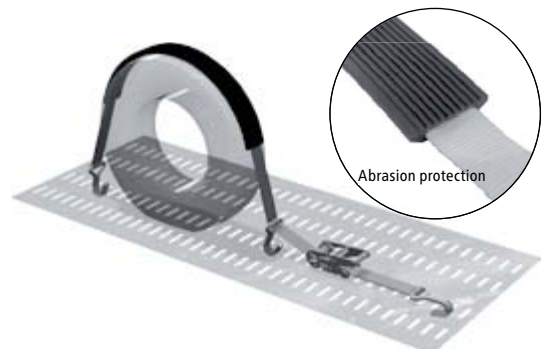
S-Line three-point car transport tie-down strap 3018

Two-part, ratchet R35S1 with double wire J hook 3501, loose end including abrasion protection and double wire J hook 3501, one additional double wire J hook 3501 for deflection. Long abrasion protection approx. 700 mm, colour black. Elongation <4%, webbing width 35 mm, webbing colour orange.

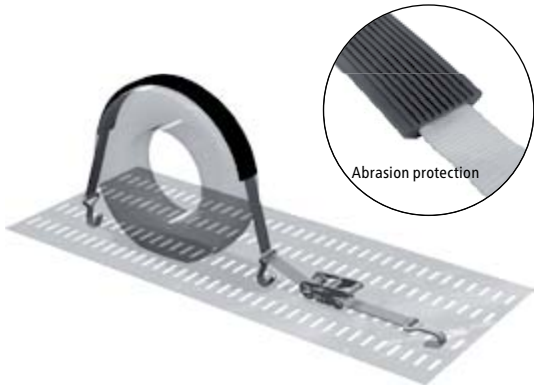
Security only in conjunction with front/rear wheel chocks.

Car transport tie-down strap for securing vehicles of up to 3 tons in weight.

Length [mm]	FE [m]	LE [m]	SHF [daN]	STF [daN]	Permissible loads [daN]		
							
2500	0.2	2.3	50	180	1500		142138705



➔ All tie-down straps are manufactured and tested to DIN EN 12195-2.



S-Line three-point car transport tie-down strap 4025

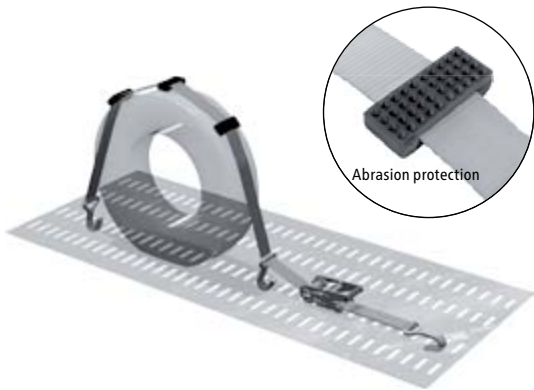
Two-part, ratchet R50S1 with double wire J hook 5002, loose end including abrasion protection and double wire J hook 5002, one additional double wire J hook 5002 for deflection. Long abrasion protection approx. 700 mm, colour black.

Elongation <4%, webbing width 50 mm, colour orange, GS & TÜV tested.

➔ Security only in conjunction with front/rear wheel chocks.

Car transport tie-down strap for securing vehicles of up to 4 tons in weight.

Length [mm]	FE [m]	LE [m]	SHF [daN]	STF [daN]	Permissible loads [daN]	
2500	0.2	2.3	50	250	2000	142138706



S-Line three-point car transport tie-down strap 4025

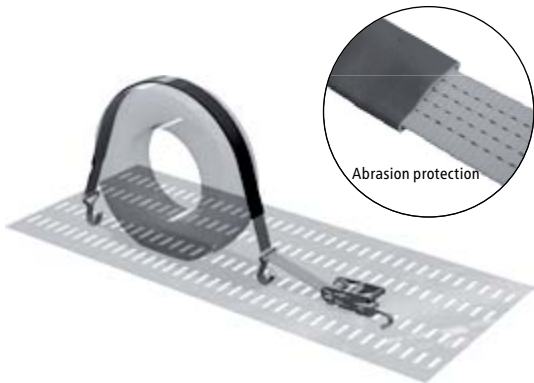
Two-part, ratchet R50S1 with double wire J hook 5002, loose end including abrasion protection and double wire J hook 5002, one additional double wire J hook 5002 for deflection. Three-piece abrasion protection, length approx. 33 mm each, colour black.

Elongation <4%, webbing width 50 mm, colour orange, GS & TÜV tested.

➔ Security only in conjunction with front/rear wheel chocks.

Car transport tie-down strap for securing vehicles of up to 4 tons in weight.

Length [mm]	FE [m]	LE [m]	SHF [daN]	STF [daN]	Permissible loads [daN]	
2700	0.2	2.5	50	250	2000	142138707



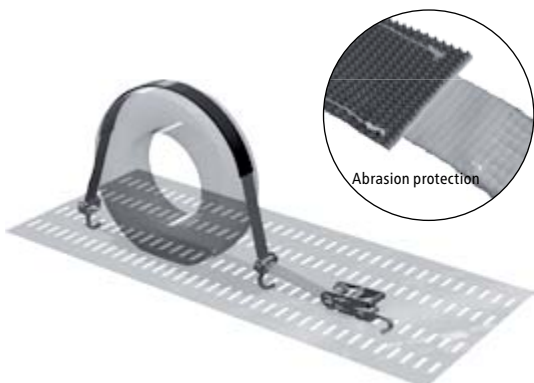
S-Line three-point car transport tie-down strap 4025

Two-part, ratchet R50S1 with rotating wire J hook 5010, loose end including abrasion protection and double wire J hook 5002, one additional double wire J hook 5002 for deflection. Length of abrasion protection approx. 1000 mm, from blue edge protection sleeving. Elongation <4%, webbing width 50 mm, colour orange, label inside, GS & TÜV tested.

➔ Security only in conjunction with front/rear wheel chocks.

Car transport tie-down strap for securing vehicles of up to 4 tons in weight.

Length [mm]	FE [m]	LE [m]	SHF [daN]	STF [daN]	Permissible loads [daN]	
2800	0	2.8	50	250	2000	142138591



S-Line three-point car transport tie-down strap 5025

Two-part, ratchet R50S1 with double wire J hook 5010, loose end including abrasion protection and wire J hook, one additional wire J hook for deflection. All hooks Ø 15 mm. Length of abrasion protection approx. 750 mm, from green polyester, with profiled rubber face towards the tyre, elongation <4%, webbing width 50 mm, colour orange, label inside, GS & TÜV tested.

➔ Security only in conjunction with front/rear wheel chocks.

Car transport tie-down strap for securing vehicles of up to 5 tons in weight.

Length [mm]	FE [m]	LE [m]	SHF [daN]	STF [daN]	Permissible loads [daN]	
2800	0	2.8	50	250	2500	142138587

Tie-down strap accessories

Chock for car transporter

Dimensions approx. 515 x 120 x 149 mm, zinc plated steel, weight 3.72 kg.

250141723

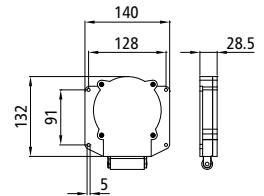


Spannblitz

Plastic, weight 0.65 kg.

295131912

Tie-down strap hanger with retraction system for tie-down straps up to 50 mm webbing width.

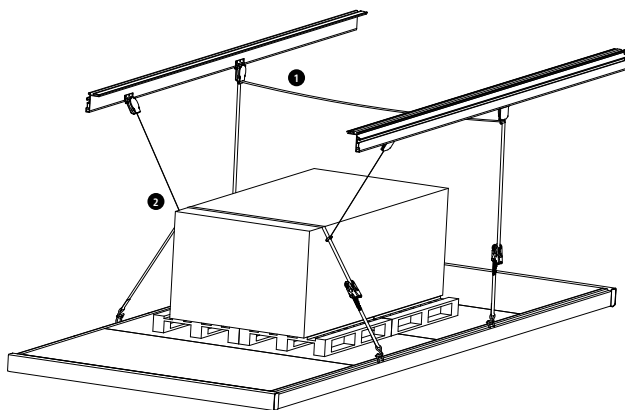
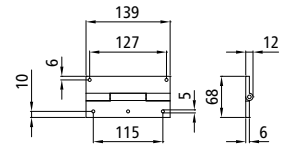


Adapter plate

Plastic, weight 0.11 kg.

295131913

Accessories for Spannblitz tie-down strap hanger.



Spannblitz system

Spannblitz is a retraction system for tie-down straps of up to 50 mm webbing width. It is mounted in the roof area, on the cant rail, for example.

The straps are pulled by means of the retraction function of the Spannblitz in their loosened state 1 into the upper area of the loading space, above the load. The vehicle can be unloaded without the tie-down straps having to be unhooked from the lashing eyes. To secure the load 2 the tie-down straps can be pulled by hand into the optimum position and tightened with the tensioning ratchet as normal.

The Spannblitz pullout is 3500 mm, thus enabling cross/diagonal tensioning of the suspended tie-down straps.

Adapter 1000

End fitting 5001/double wire J hook 5002 on D-ring 5012. Webbing width 45 mm, webbing colour red, usable length 400 mm, permissible load 1000 daN, elongation <7%.

122138294



S-Line abrasion protection

With profiled rubber face, for car transport straps with webbing width 50 mm, colour green, length 750 mm.

142138711





S-Line abrasion protection

For car transport straps with webbing width 50 mm, black rubber, length 700 mm.

142138708



**S-Line combi anchor tracks
End fitting 585**

Steel, ring Ø 52 mm, failure load 2700 daN.

142138585



S-Line screw fitting for Airline rail

Zinc plated steel, with M8 x 45 screw, washer and self-locking nut, failure load 500 daN.

142138745



S-Line simple Airline fitting 570

Aluminium, ring Ø 35 mm, failure load 1800 daN.

142138570



S-Line simple Airline fitting 600

Plastic, triangular ring 29 mm, failure load 900 daN.

142138600



S-Line double Airline fitting 571

Steel, ring Ø 40 mm, failure load 2700 daN.

142138571



S-Line fourfold Airline fitting 579

Steel, rigid, ring Ø 30 mm, failure load 5000 daN.

142138579



S-Line fourfold Airline fitting 702

Steel, folding, failure load 4000 daN.

142138702



Corner edge protectors

S-Line corner edge protector

White plastic, with open slots for inserting straps.

Dimensions [mm]	Weight [kg]	
90x135x135	0.06	142138519



S-Line corner edge protector

Black plastic, with reinforcement and hollow channelling for paper transport or similarly delicate goods.

Dimensions [mm]	Weight [kg]	
134x179x131.5	0.27	142131857

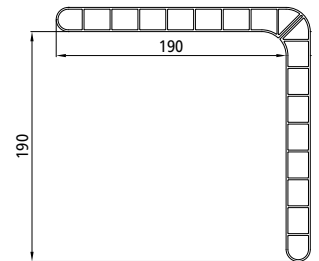


S-Line corner edge protector

Orange plastic, weight 2.51 kg/m.

→ Length can be shortened individually.

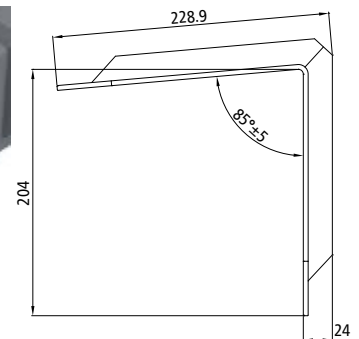
Length [m]	
1.20	142138704
5.85	142131856



S-Line corner edge protector

Red plastic, with reinforcement and strap guides, 228x228 mm.

Length [m]	
1.20	142138744



Anti-slip matting



Anti-slip matting pad

300 x 200 x 8 mm, friction coefficient 0,8 μ , PU bonded rubber granulate, black flecked.

295131387



Anti-slip matting roll

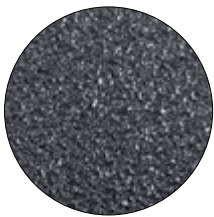
5000 x 250 x 8 mm, friction coefficient 0,8 μ , PU bonded rubber granulate, black flecked.

295131386



The anti-slip matting **295131386** and **295131387** have been certified by the Fraunhofer Institute.

Coated phenolic plywood boards



Coated phenolic plywood boards

One-sided anti-slip coating. Friction coefficient 0,5-0,6 μ , colour anthracite.

Dimensions [mm]	Thickness + coating [mm]	Weight [kg]	
1250 x 2500	18 + 3	45	360713203
1250 x 2500	24 + 3	57	360713205
1500 x 2500	21 + 3	61	360713212
1500 x 2500	27 + 3	76	360713206

Cargo nets



S-Line cargo nets for car trailers, flatbeds and containers

Mesh width 45 mm with circumferential rubber stretch cord \varnothing 6 mm, PP multifilament thickness 3 mm, green.

Width x length [m]	
1.5 x 1.5	142138517
2.0 x 2.5	142138518
2.0 x 3.0	142138758
2.5 x 3.5	142136070
3.0 x 3.5	142136069
3.0 x 4.0	142136071
3.5 x 5.0	142136067
3.5 x 6.0	142136068
3.5 x 7.0	142138759

Towing slings

S-Line towing slings

With fixed red warning flag at midpoint. Length 6 m, produced from 100% polyester fibres.

→ For towing and recovery of agricultural wheeled vehicles.

Permissible GVW [t]	Failure load [daN]	Length [mm]	
15	35000	4000	142138615
24	56000	4000	142138616
15	35000	6000	142138581
24	56000	6000	142138582



Shackle for towing slings

Zinc plated curled shackle, high-strength, with eyebolt.

Load capacity [t]	
9.5	848673000



Round slings



S-Line round slings






To Pr EN 1492-1, with declaration of conformity, tonnage stripe identification and sewn-in load capacity label. Produced from 100% polyester fibres, safety factor 7:1.

Circumferential length [mm]	Colour [Euro Standard]	Tonnage stripes	Perm. load relative to slinging method [daN]					
			1	2	3	0-45°	46-60°	
2000	violet	1	1000	2000	800	1400	1000	142138546
3000	violet	1	1000	2000	800	1400	1000	142138547
4000	violet	1	1000	2000	800	1400	1000	142138548
6000	violet	1	1000	2000	800	1400	1000	142138549
2000	green	2	2000	4000	1600	2800	2000	142138550
3000	green	2	2000	4000	1600	2800	2000	142138551
4000	green	2	2000	4000	1600	2800	2000	142138552
6000	green	2	2000	4000	1600	2800	2000	142138553
2000	yellow	3	3000	6000	2400	4200	3000	142138554
3000	yellow	3	3000	6000	2400	4200	3000	142138555
4000	yellow	3	3000	6000	2400	4200	3000	142138556
6000	yellow	3	3000	6000	2400	4200	3000	142138557
4000	grey	4	4000	8000	3200	5600	4000	142138558

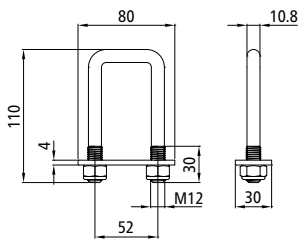


S-Line hoisting slings

To Pr EN 1492-1, with declaration of conformity, tonnage stripe identification and sewn-in load capacity label. Produced from 100% polyester fibres, safety factor 7:1.

Circumferential length [mm]	Colour [Euro standard]	Tonnage stripes	Perm. load relative to slinging method [daN]					
								
2000	violet	1	1000	2000	800	1400	1000	142138559
4000	violet	1	1000	2000	800	1400	1000	142138560
6000	violet	1	1000	2000	800	1400	1000	142138561
2000	green	2	2000	4000	1600	2800	2000	142138562
4000	green	2	2000	4000	1600	2800	2000	142138563
6000	green	2	2000	4000	1600	2800	2000	142138564
2000	yellow	3	3000	6000	2400	4200	3000	142138565
4000	yellow	3	3000	6000	2400	4200	3000	142138566
6000	yellow	3	3000	6000	2400	4200	3000	142138567

Lashing rings, recess plates, and lashing ring pockets



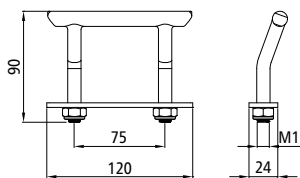
Lashing ring

Load capacity 800 daN, zinc plated.

→ Please order all parts separately.

2 hex. nuts DIN 985 M 12-8 are included in the supply of the lashing ring.

Item	Description	Weight [kg]	
1	Lashing ring	0.20	295131663
2	Plate	0.08	295131664



Lashing ring

Load capacity 2000 daN, zinc plated.

→ This lashing ring can be fitted to all Suer steel floor frame profiles with slanted/offset top/outer edge, e.g.: 372561440. We use these lashing rings as standard in our boltable Cargotrail steel floor assemblies with platform or curtainsider bodies.

Description	Weight [kg]	
Lashing ring	0.33	295131824

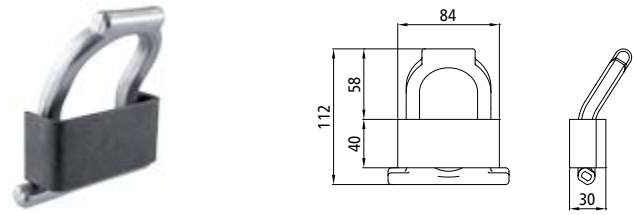
→ All lashing rings, recessed lashing rings and lashing ring pockets on this and the following pages are tested to DIN EN 12640.

Lashing ring

Load capacity 2000 daN.

→ Please order all parts separately.

Item	Description	Surface	Weight [kg]	
1	Lashing ring	zinc plated	0.37	295132672
	Lashing ring	self colour	0.37	295131672
2	Weld-in pocket	self colour	0.18	295131698

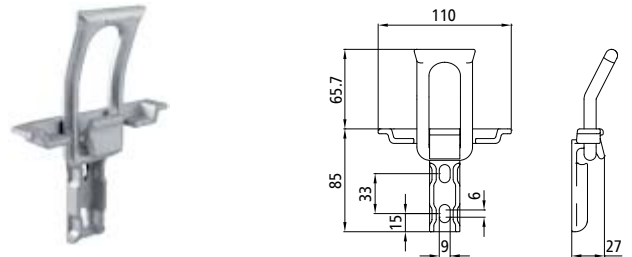


PWP lashing ring

Load capacity 2000 daN.

→ Please order all parts separately.

Item	Description	Surface	Weight [kg]	
1	Lashing ring	zinc plated	0.16	105131660
2	Holder	zinc galvanised	0.19	105131659



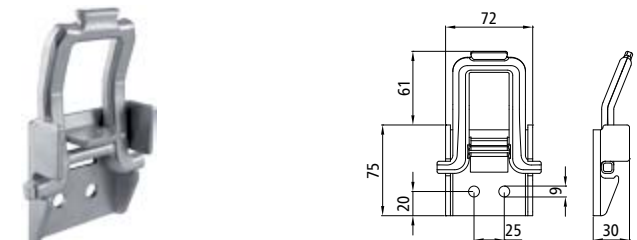
→ The holder **105131659** can be welded into the floor frame profile or screwed, making it particularly suitable for aluminium floor frame profiles. We use this lashing ring as standard on our Cargotrail aluminium platform bodies.

PWP Penguin lashing ring

Load capacity 2000 daN.

→ Please order all parts separately.

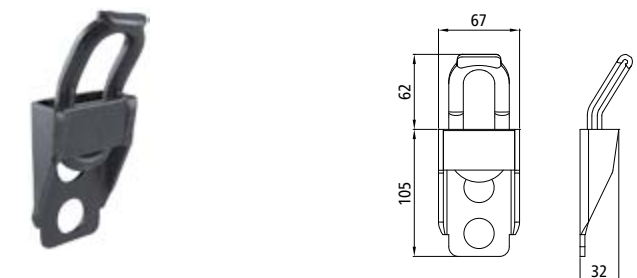
Item	Description	Surface	Weight [kg]	
1	Lashing ring	zinc plated	0.25	105131809
2	Pocket	self colour	0.22	105131810
	Pocket	zinc plated	0.22	105131811

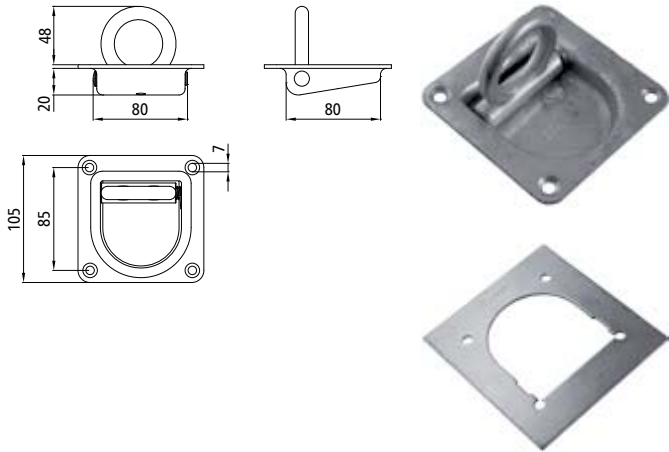


Lashing ring

Load capacity 2500 daN.

Description	Surface	Weight [kg]	
Lashing ring	primer finish	0.60	295131743





Recessed lashing ring

Load capacity 1000 daN. Recess plate zinc galvanised, lashing ring zinc galvanised. Weight 0.52 kg.

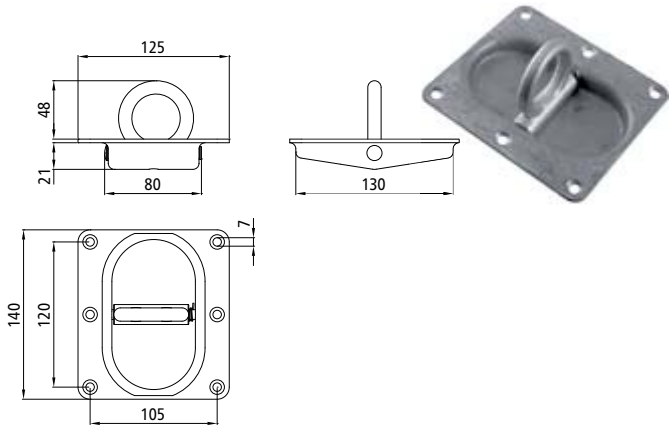
295133563

Reinforcing plate

133 x 143 x 3 mm, zinc plated, weight 0.29 kg.

295131794

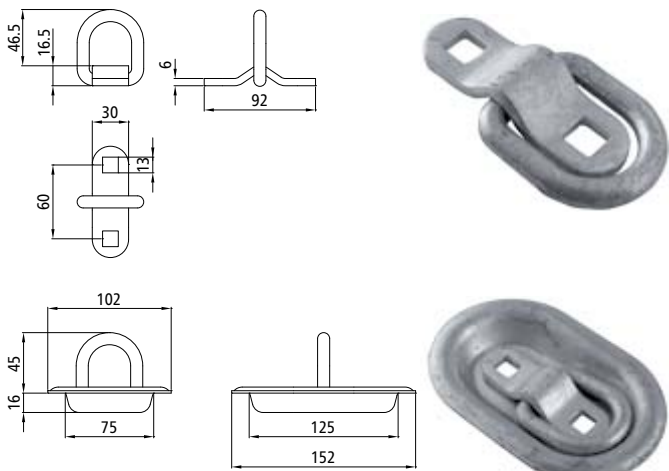
→ For recessed lashing ring **295133563**.
Use the reinforcing plate when fitting the recessed lashing ring in phenolic plywood boards or timber floors to maintain a favourable load transmission due to the increased supporting face area.



Recessed lashing ring

Load capacity 1000 daN. Recess plate zinc galvanised, lashing ring zinc galvanised. Weight 0.65 kg.

295133562



Lashing ring/recess plate

Zinc galvanised, load capacity 2000 daN.

→ Please order all parts separately.
The complete lashing ring/recess plate is fixed using two M 12 carriage bolts to DIN 603.
The bolts are not included in the supply.

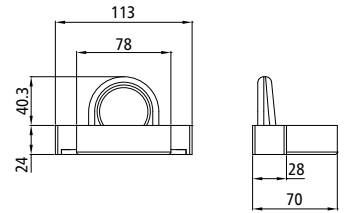
Item	Description	Weight [kg]	
1	Lashing ring	0.11	295131391
2	Plate	0.11	295131392
3	Recess plate	0.24	295131393



Recessed lashing ring

Load capacity 2000 daN, self colour, weight 0.57 kg.

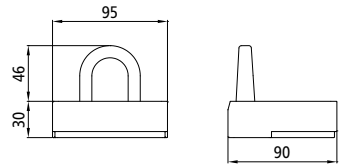
105131557



Recessed lashing ring

Load capacity 2500 daN, self colour, weight 0.78 kg.

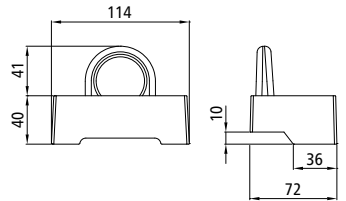
295131560



Recessed lashing ring

Load capacity 2500 daN, self colour, weight 0.75 kg.

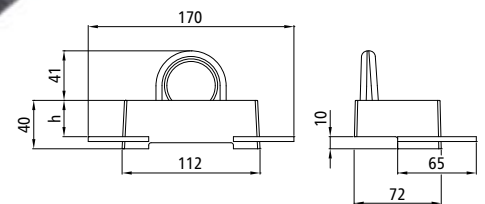
295131590



PWP recessed lashing rings

With floor support, load capacity 2500 daN, self colour.

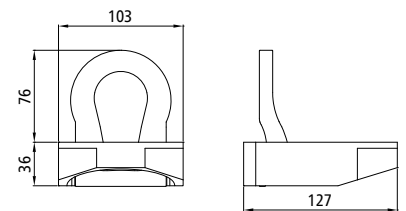
Dim. h [mm]	Weight [kg]	
22	0.94	105131595
30	0.96	105131596

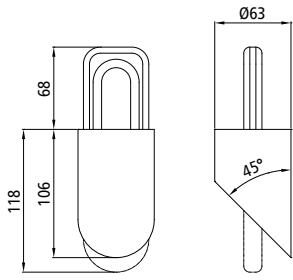


Recessed lashing ring

Load capacity 6000 daN, primer finish, weight 1.64 kg.

295131914



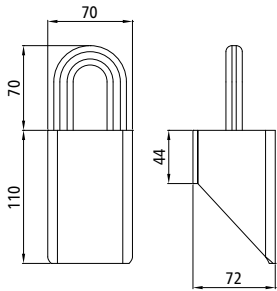


Lashing ring pocket

Load capacity 2500 daN, primer finish, weight 0.92 kg.

295131739

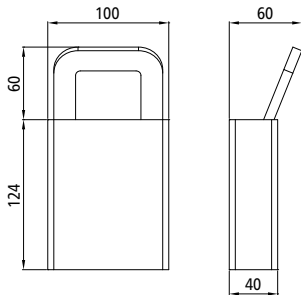
→ This lashing ring pocket is designed for dual sided loading.



Lashing ring pocket

Load capacity 2500 daN, vertical failure load 7000 daN, primer finish, weight 1.24 kg.

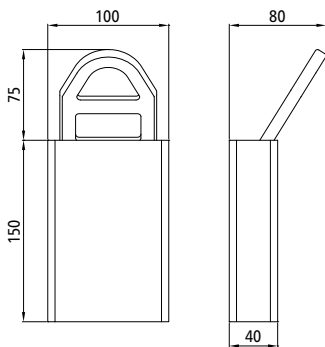
295131746



Lashing ring pocket

Load capacity 3000 daN, primer finish, weight 1.12 kg.

295131544

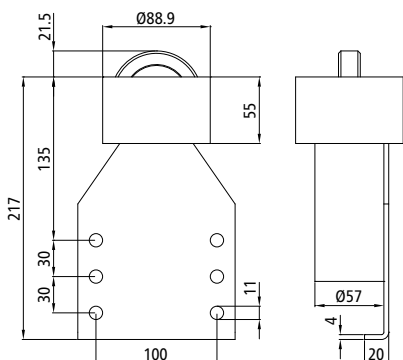


Lashing ring pocket

Load capacity 6500 daN, primer finish, weight 1.90 kg.

295131543

→ This lashing ring pocket is not tested to DIN 12640. It may not be utilised in Germany as a load restraining device in accordance with the BG (German professional trade association) guidelines for vehicle operating. The stated load ratings are the manufacturer's values.



PWP Pointer lashing ring

Load capacity 2000 daN, zinc plated.

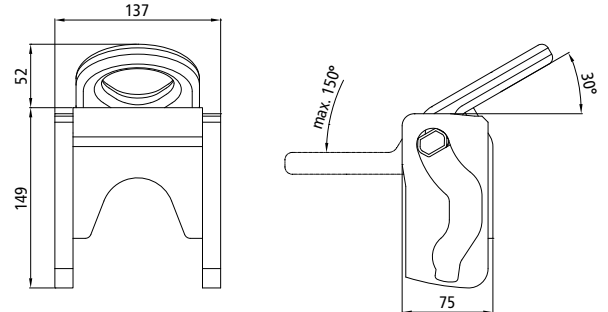
→ The PWP Pointer lashing ring can optionally accept Ø 50 mm plug-in pillars. Plug-in pillars can be supplied in aluminium or steel. Exact design, price and delivery on request.

Description	Weight [kg]	
With mounting holes	2.24	105131397
Without mounting holes	2.24	105131927

Lashing ring

Load capacity 10000 daN, self colour/primer finish, weight 3.40 kg.

295131916

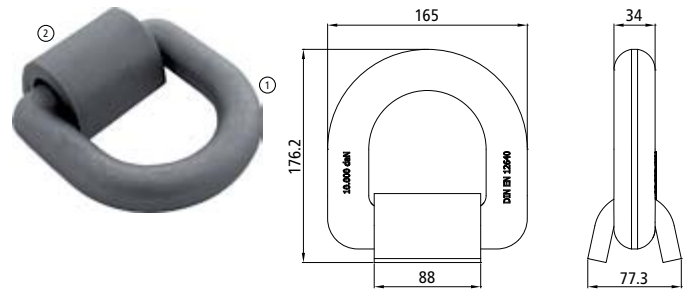


Lashing eye

Load capacity 10000 daN. Lashing eye and weld-on lug, self colour.

→ Please order all parts separately.

Item	Description	Weight [kg]	
1	Lashing eye	3.27	295131917
2	Weld-on lug	1.32	295131918



Lashing eye

Belastbarkeit 10000 daN. Zurröse und Anschweißlasche roh.

→ This lashing eye is only tested to DIN EN 12640.

→ Please order all parts separately.

Item	Description	Weight [kg]	
1	Lashing eye	1.32	295131711
2	Weld-on lug	0.63	295131712

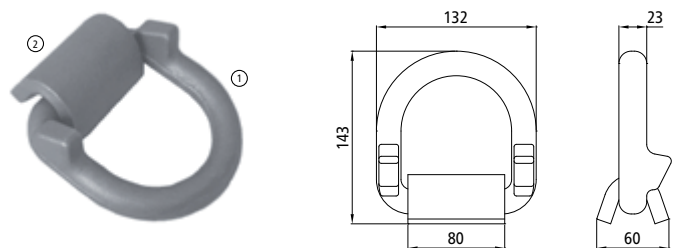
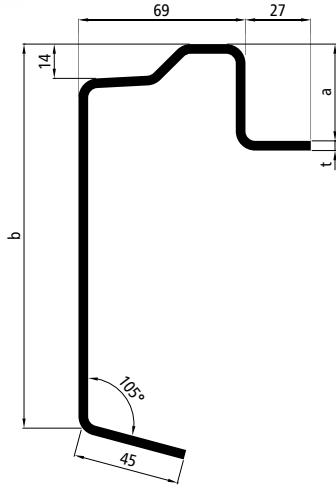


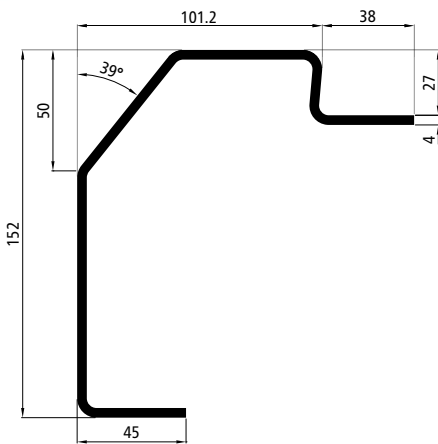
Illustration with fitted lashing ring 295131824



Floor frame for lashing rings

Length 7300 mm, with hole pattern for lashing ring 295131824, grade S355MC.

Dim. a [mm]	Dim. b [mm]	Dim. t [mm]	Finish	W ₁ [cm ³]	W ₂ [cm ³]	Weight [kg/m]	
18	110	2.5	self colour	17.26	26.19	4.90	372561440
18	110	2.5	primer finish	17.26	26.19	4.90	373561440
18	110	2.5	zinc plated	17.26	26.19	4.90	372562440
21	140	3	self colour	27.44	40.68	6.61	372561436
21	140	3	primer finish	27.44	40.68	6.61	373561436
21	140	3	zinc plated	27.44	40.68	6.61	372562436
27	140	4	self colour	35.21	51.68	8.82	372561437
27	140	4	sandblasted (self colour)	35.21	51.68	8.82	373561460
27	140	4	primer finish	35.21	51.68	8.82	373561437
27	140	4	zinc plated	35.21	51.68	8.82	372562437
27	160	4	self colour	42.48	61.68	9.45	372561434
27	160	4	sandblasted (self colour)	42.48	61.68	9.45	373561479
27	160	4	primer finish	42.48	61.68	9.45	373561434
27	160	4	zinc plated	42.48	61.68	9.45	372562434
30	160	4	self colour	42.40	61.75	9.55	372561435
30	160	4	primer finish	42.40	61.75	9.55	373561435
40	160	4	self colour	42.09	61.63	9.86	372561439



Floor frame with lashing eyes

With hole pattern/lashing anchor points for diagonal and vertical tensioning by means of tie-down straps, load capacity 2000 daN.

Zinc plated steel, grade S355MC.

➔ This newly developed floor frame profile belongs to the Cargotrail steel floor frame product range. It has a hole pattern at both ends for fitting to the Cargotrail end crossmembers.

Length [mm]	W ₁ [cm ³]	W ₂ [cm ³]	Weight [kg/m]	
7040	53.40	82.34	10.1	605646331

MultiSave load restraint system

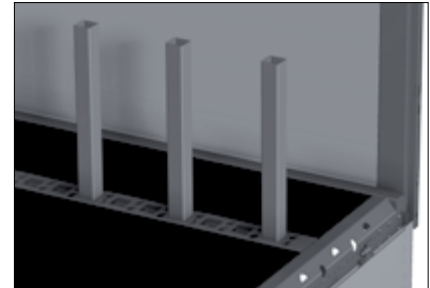
MultiSave

Reliable, form-fitting load restraint at every point of the body. With the new MultiSave, load restraint becomes a part of the vehicle construction. When assembling the vehicle body, no longer are individual lashing points added but a system platform is instead created with which the most diverse range of load securing tasks can be solved. Peg around the form-fitted load with the MultiStick 70 plug-in pillars - job done. Tie-down straps with double J-hook end fittings 5002 can also be anchored.

MultiSave is integrated into the floor frame like a conventional crossmember. The optionally available mounting bracket [605646478](#) can be riveted to the side of the MultiSave crossmember by means of 6.4 mm Monobolt steel rivets. There are hole patterns in the MultiSave crossmember for a recessed floor of 27 mm and 30 mm (dimension a in drawing below).

The MultiSave crossmember is certified to DIN EN 12642 XL and tested as a lashing anchor point to DIN EN 12640 with a permissible load of 2000 daN in the vehicle longitudinal and lateral directions.

The MultiSave crossmember can also be supplied for the Cargotrail steel floor frame SSP1 (standard) and SSP2 (building materials dropside).

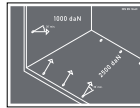
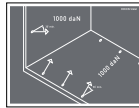
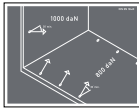


Drawing illustration: MultiSave crossmember [605646477](#) with mounting bracket riveted to both sides [605646478](#).

MultiSave

Load restraint system.

Description	Material	Weight [kg]	
MultiSave crossmember, can be shortened individually	Steel self colour	39.20	605646477
Mounting bracket	Steel self colour	2.69	605646478
MultiStick 70, nominal height 600 mm	Steel, surface Microzinq	5.29	605646475
MultiStick 70, nominal height 1000 mm	Steel, surface Microzinq	8.29	605646476



Illustrations above: 345551190,
345551746, 345551747, 345552085

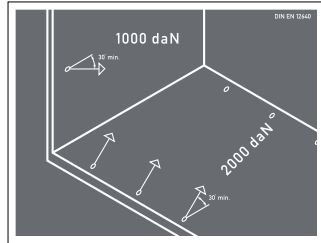


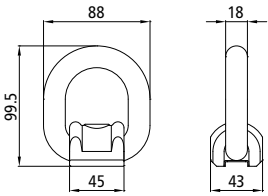
Illustration right: 345551748

Lashing point Information signs

Adhesive foil.

Design	DIN	Dimensions [mm]	
400 daN	DIN 75410-1	200 x 120	345551190
800 daN	DIN EN 12640	210 x 160	345551746
1000 daN	DIN EN 12640	210 x 160	345551747
2000 daN	DIN EN 12640	210 x 160	345551748
2500 daN	DIN EN 12640	210 x 160	345552085

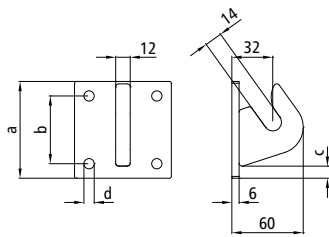
Miscellaneous anchorings



Anchor point

With weld-on lug, grade 8, load capacity 3.15 tons, weight 0.69 kg.

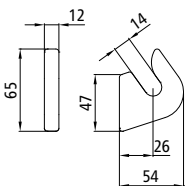
295134121



Chain hook

Welded to rectangular steel plate, self colour.

Dim. a [mm]	Dim. b [mm]	Dim. c [mm]	Dim. d [mm]	Weight [kg]	
80 x 80	55 x 55	12	8	0.50	125131005
90 x 90	65 x 65	15	10	0.55	125131006



Chain hook

Self colour, weight 0.18 kg.

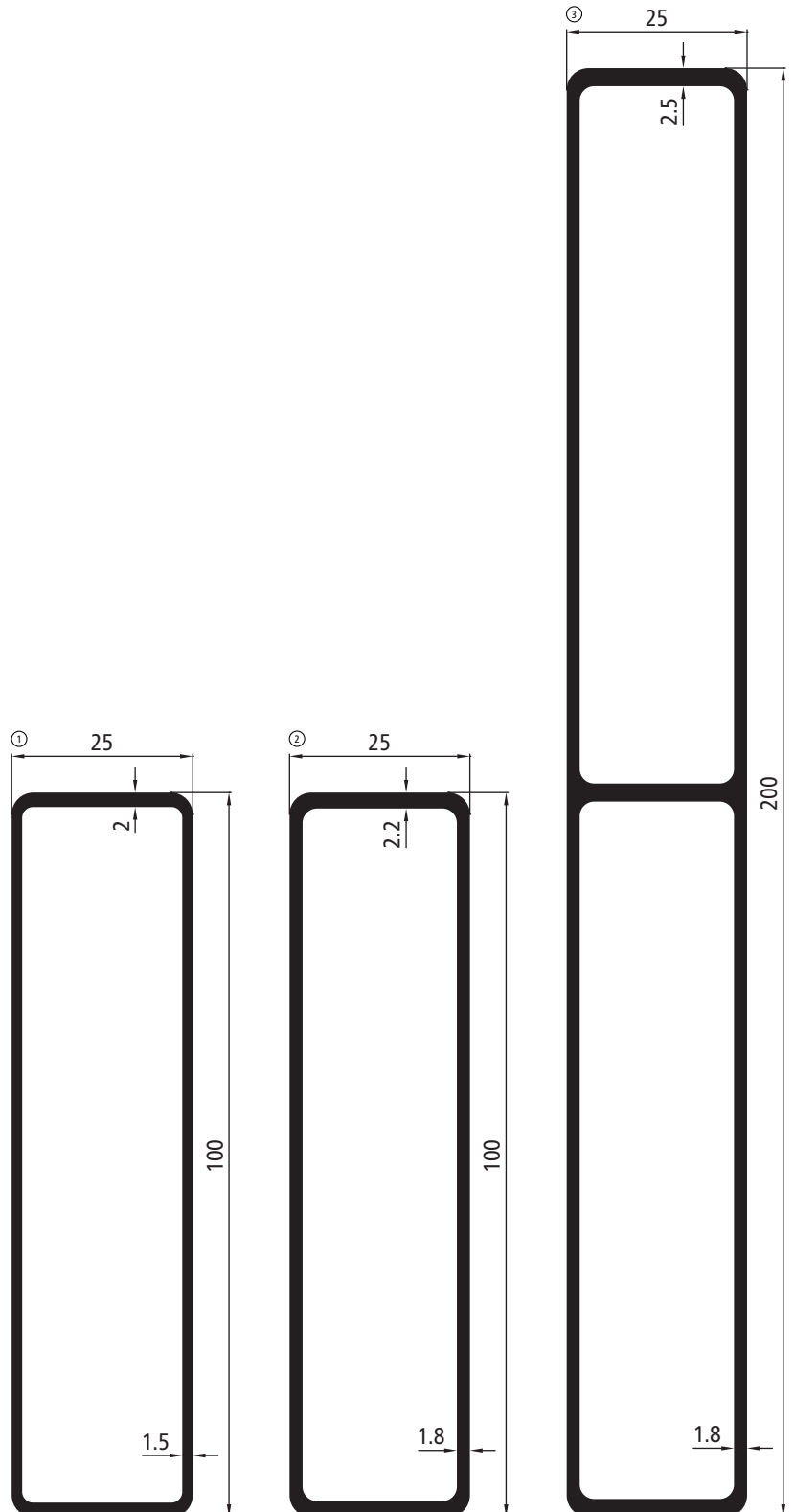
215131004

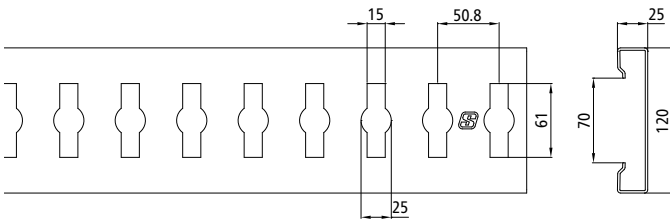
25 mm side planks

AlMgSi 0.5 F25.

The side plank profile 621045 takes the end stops 215131536 and 320131382. The 25 mm side planks 621045 and 621315 take the push-on end caps 320131383.

Item Description	Weight [kg/m]	
1 Side plank "100"	0.871	621315
2 Side plank "100"	1.309	621045
3 Side plank "200"	2.480	622922



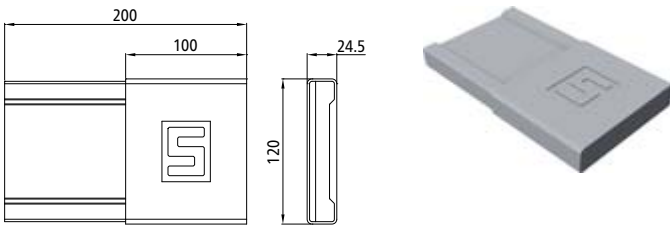


S-Line combi anchor side plank 6000

Steel side plank in S355MC, sendzimir galvanised.
Compatible with combi pegs Ø 19/24 mm and all established combi anchor track end fittings.
BLC values with end fitting 585.

Length [mm]	BLC at ↘		Weight [kg]	
	45°	90° [daN]		
3500	800	800	11.6	142131851

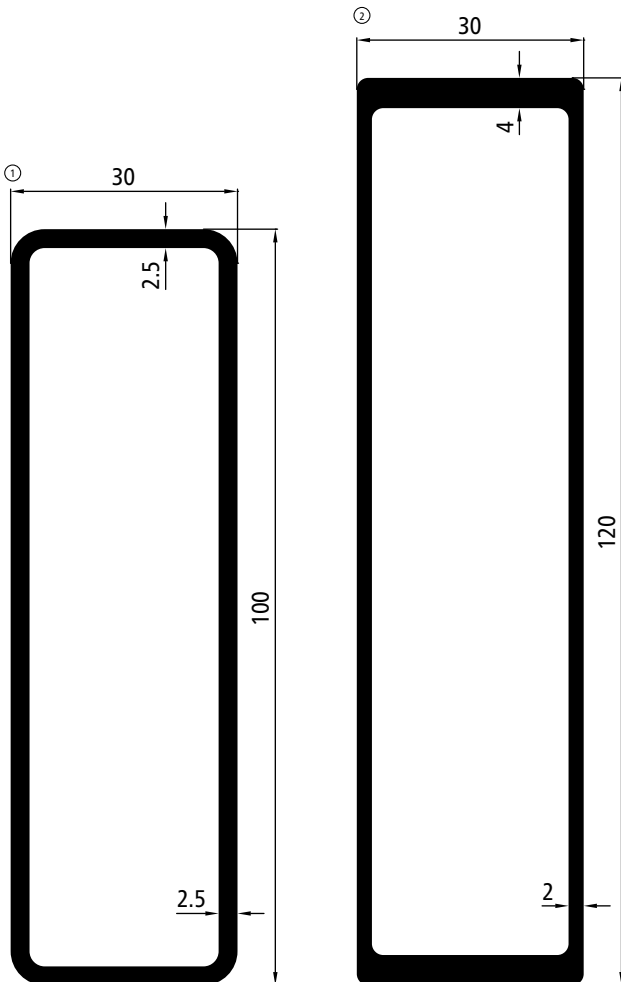
Accessories



S-Line side plank end cap

Plastic.
→ End piece for combi anchor side plank 6000.
For extending the side plank by 100 mm each end.

Colour	Weight [kg]	
Red	0.52	142138783



30 mm side planks

AlMgSi 0.5 F25.

Item Description	Weight [kg/m]	
1 Side plank "100"	1.739	611041
2 Side plank "120"	1.951	611026

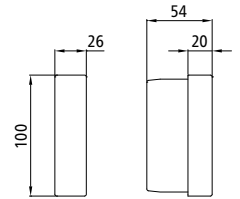
Side plank accessories

Plastic end stop

Weight 0.05 kg.

320131382

Plug-in.

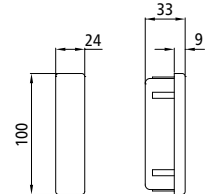


PUR end stop

Weight 0.03 kg.

215131536

Plug-in.

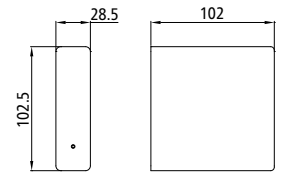
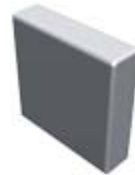


Plastic end stop

Weight 0.06 kg.

320131383

Push-on.



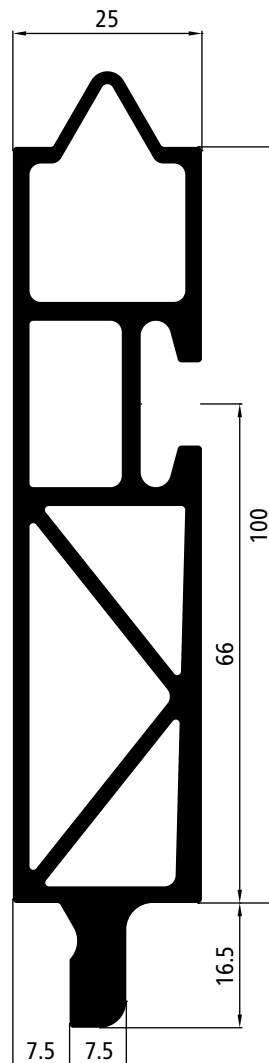
25 mm pallet stop rails

AlMgSi 0.7 F27.

→ The pallet stop rails **644010/644011** in conjunction with the combi ram guard **644001** are the only stop rails on the market recognised as a load restraint which can be fitted without tools. Certified in accordance with DIN EN 12195 and DIN EN 12642 Code XL.

Airline system for shoring beams with peg Ø 19 mm or tie-down straps with Airline end fitting using banding restraint method.

Description	Weight [kg/m]	
Without Airline system	2.734	644010
With Airline system	2.640	644011



Side board profile with Airline system

With the 100 mm aluminium profile **621317** we also range a side board profile with integrated Airline system. You can find out more about this middle profile with the 25 mm snap lock system connection in our Aluminium catalogue. AlMgSi 0.5 F25, weight 1.770 kg/m.



25 mm slip-on planks

AlMgSi 0.5 F25.

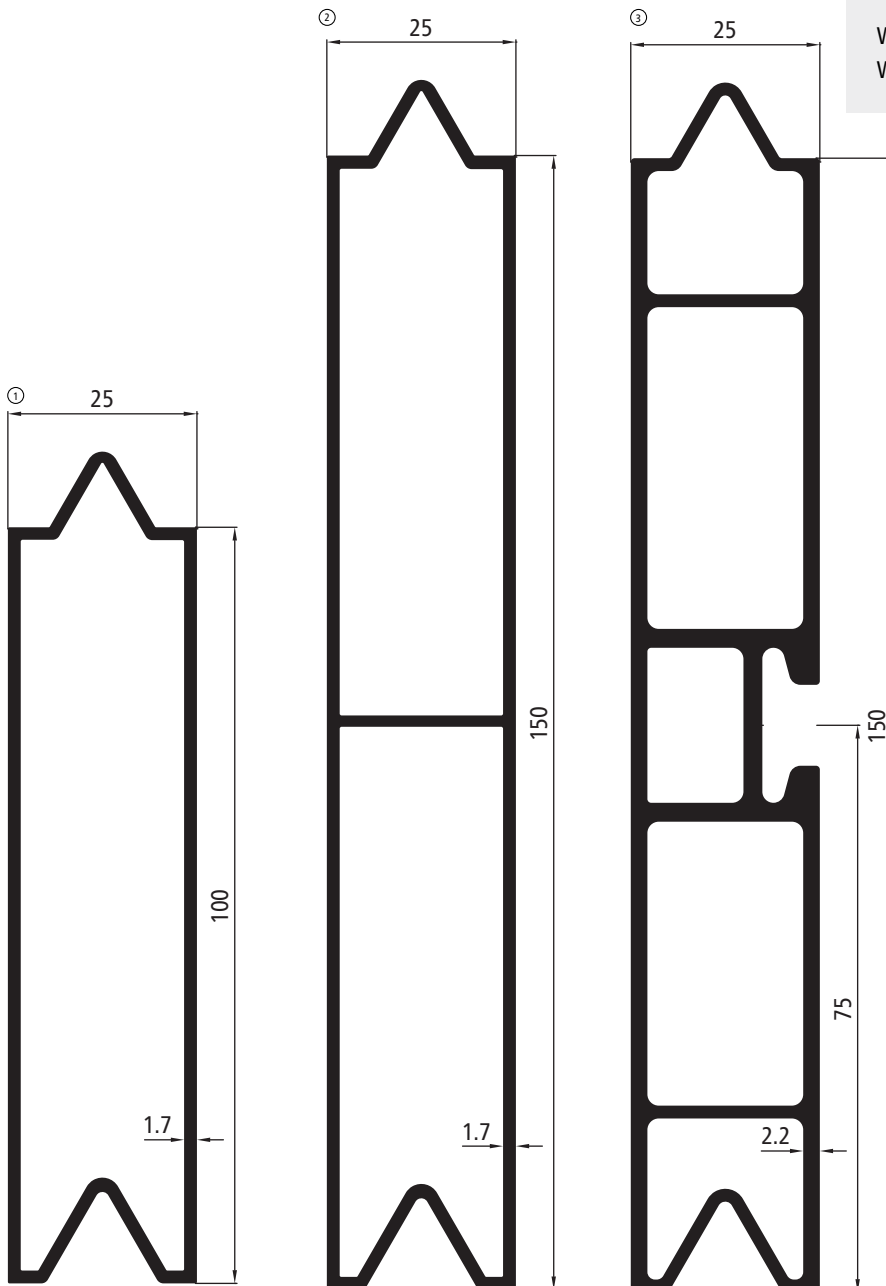
Item Description	Weight [kg/m]	
1 Slip-on plank "100"	1.299	621282
2 Slip-on plank "150"	1.889	621223

25 mm slip-on planks

Item 3, AlMgSi 0.7 F27.

Airline system for shoring beams with peg \varnothing 19 mm or tie-down straps with Airline end fitting using banding restraint method.

Description	Weight [kg/m]	
Without Airline system	2.830	644008
With Airline system	2.800	644009



Combi ram guards

Combi ram guard

Item 1, AlMgSi 0.5 F25, weight 1.700 kg/m.

644003

With nose for slip-on planks **621282** + **621223**.

Combi ram guards

Item 2, AlMgSi 0.5 F25.

Suitable for virtually all body types:

- For bodies with side boards where the side board hinge radius is at least 38 mm.
- For bodies with floor side planks/V- planks/pallet stop rail.
- The combi ram guard with Airline system **644007** can accept tie-down straps/load restraint components with Airline end fittings 570, 571 and 579.

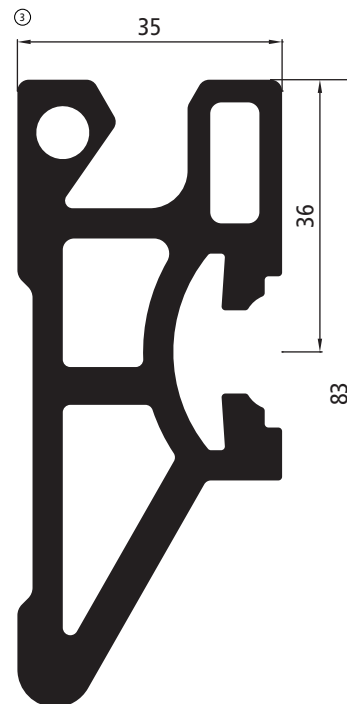
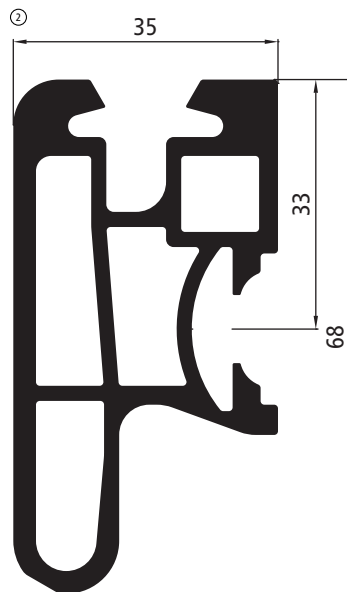
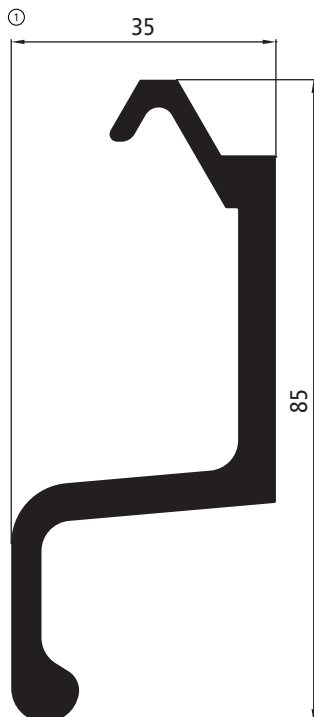
Description	Weight [kg/m]	
Without Airline system	2.458	644006
With Airline system	2.156	644007

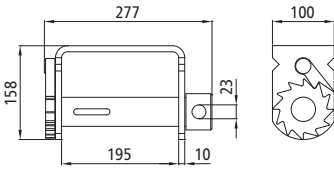
Combi ram guard

Item 3, AlMgSi 0.5 F25, weight 3.349 kg/m.

644001

With cavity for carriage bolts M 10, to DIN 603 and groove for slip-on planks **621282** + **621223**, pallet stop rails **644010/644011** or CS centre pillars for combi ram guard.



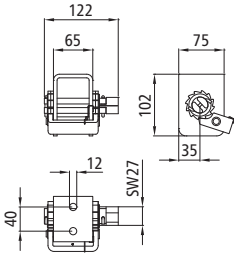


Lashing winch 1820

For tie-down straps max. 50 x 8 mm, anthracite primer, weight 4.86 kg.

122138110

Operated by e.g., Ø 22 mm round steel bar.

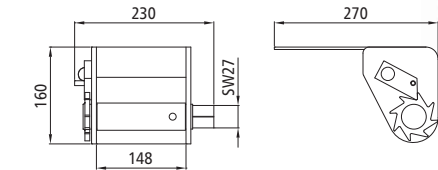


Lashing winch 1880

With spring-assisted anti-backlash device for lashing straps max. 50 x 6 mm, painted/zinc plated, weight 1.66 kg.

122138113

Operated e.g., using 28 a/f spanner.

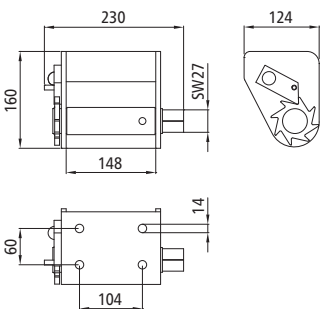
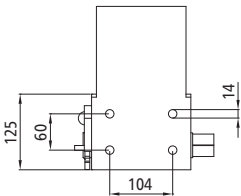


Lashing winch

For steel cable max. Ø 10 mm, black primer, weight 6.10 kg.

295161016

Operation by reversible ratchet or free-wheel pawl with $\varnothing 27$ mm drive.



Lashing winch

For steel cable max Ø 10 mm, black primer. Weight 5.44 kg.

295161090

Operation by reversible or free-wheel ratchet wrench with $\varnothing 27$ mm drive.

The lashing winches with the article numbers 122138110, 122138113, 295161016, 295161090 and 295161103, illustrated on this and the next page, have not been tested by the German professional trade association for vehicle operating. For this reason, no load values have been specified for these winches and they may not be used in Germany.



Free-wheel ratchet wrench $\varnothing 27$ mm

Overall length 380 mm, weight 0.98 kg.

295161049

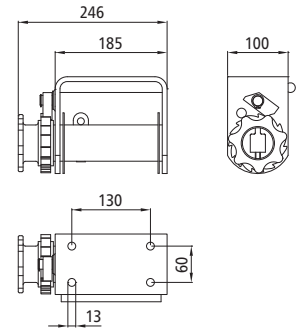
→ For lashing winches 295161016 + 295161090.

Lashing winch 2622

For tie-down straps max. 50 x 5 mm, length 3000 mm or steel cable max. Ø 8 mm, length 9000 mm. Permissible straining force 20 kN, standard tension force 5 kN, black painted, weight 6.01 kg.

295161107

→ In conjunction with the slip-on gearbox 4504, article no. **295161108**, the lashing winch 2622 complies with the requirements of the German professional trade association. This combination has been distinguished with the GS mark for tested safety.



4504

Slip-on gearbox for lashing winch 2622, torque 150 Nm, black painted, weight 3.15 kg.

295161108



Lashing winch ZW-500

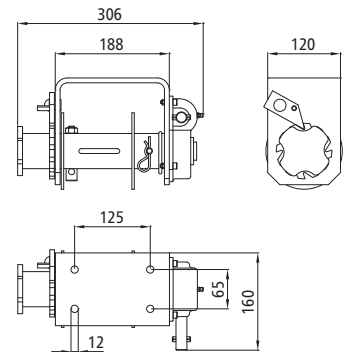
With backlash-free worm drive, for tie-down straps max. 60 x 8 mm, length 2500 mm or wire rope max. Ø 8 mm, length 6500 mm. Black painted, weight 9.49 kg.

295161103

Worm drive

Spare part for lashing winch ZW-500.

295161258



Hand crank

Black painted, overall length 290 mm, weight 0.91 kg.

295161110

→ For lashing winch ZW-500.





Cable winch 530

With fixed hand crank, for Ø 5 mm steel cable or belting up to max. width 40 mm. Cable winch dimensions without hand crank approx. 230 x 180 x 155 mm (l x w x h), zinc plated steel.

Straining force, 1st cable layer [N]	Straining force, outer cable layer [N]	Max. cable length [m]	Weight [kg]	
5300	1800	20	4.66	355161323



Cable winch 950

With fixed hand crank, for Ø 7 mm steel cable or belting up to max. width 50 mm. Cable winch dimensions without hand crank approx. 255 x 210 x 200 mm (l x w x h), zinc plated steel.

Straining force, 1st cable layer [N]	Straining force, outer cable layer [N]	Max. cable length [m]	Weight [kg]	
9500	3500	25	8.43	355161325



Cable winch A

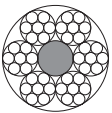
With removable hand crank, for Ø 7 mm steel cable or belting up to max. width 50 mm. Cable winch dimensions without hand crank approx. 255 x 210 x 200 mm (l x w x h), zinc plated steel.

Straining force, 1st cable layer [N]	Straining force, outer cable layer [N]	Max. cable length [m]	Weight [kg]	
9500	3500	25	8.53	355161326



All cable winches on this page are furnished with the CE mark and comply with the EC machinery directive 89/392/EEC.

Cable



Round strand cable 6 x 7

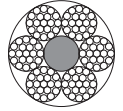
With fibre inlay, DIN EN 12385-4, zinc plated.

Cable Ø [mm]	Cable length [m]	Min. breaking strain [kN]	Weight [kg/m]	
3	30	5.29	0.03	271151081
4	30	9.41	0.06	271151082
5	30	14.70	0.09	271151083
8	10	37.60	0.23	271151085
14	30	115.00	0.70	271151088

Round strand cable 6 x 19

With fibre inlay, DIN EN 12385-4, zinc plated.

Cable Ø [mm]	Cable length [m]	Min. breaking strain [kN]	Weight [kg/m]	
6	30	19.6	0.13	271153084
6	50	19.6	0.13	271155084
8	30	34.8	0.22	271153085
8	50	34.8	0.22	271155085
10	30	54.4	0.35	271153086



Steel cables for cable winches

With eye slip hook. Compliant with DIN 3060, certified to DIN 15020 Part 1, zinc plated.

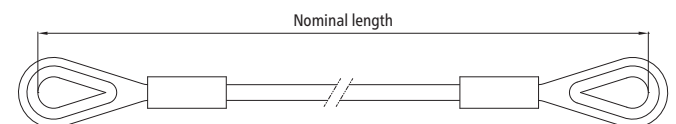
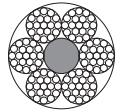
Cable Ø [mm]	Cable length [m]	Weight [kg]	
5	10	1.02	355161327
7	12.5	2.35	355161328



Tipper cables Ø 10 mm

From round strand cable 6 x 19 with fibre inlay, to DIN EN 12385-4. Both ends with A 9 thimble, DIN 6899, for pin Ø 20 mm. Minimum breaking strain 4920 kN, zinc plated.

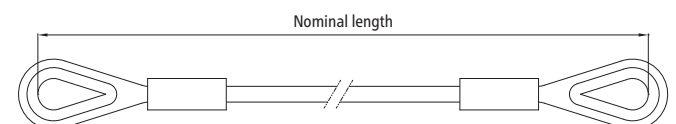
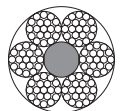
Nominal length [mm]	Weight [kg]	
700	0.36	270151145
800	0.41	270151148
900	0.44	270151151
1000	0.48	270151154
1100	0.52	270151155
1300	0.60	270151123

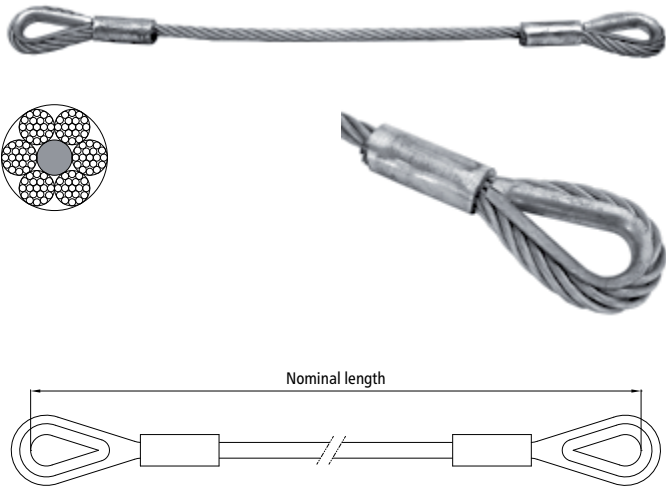


Tipper cables Ø 13 mm

From round strand cable 6 x 19 with fibre inlay, to DIN EN 12385-4. Both ends with A 12 thimble, DIN 6899, for pin Ø 26 mm. Minimum breaking strain 8310 kN, zinc plated.

Nominal length [mm]	Weight [kg]	
620	0.76	270151156
950	0.98	270151126
1000	1.00	270151127
1100	1.07	270151128
1150	1.10	270151129
1200	1.14	270151167
1250	1.16	270151130
1300	1.20	270151168
1400	1.26	270151169





Tipper cables Ø 16 mm

From round strand cable 6 x 19 with fibre inlay, to DIN EN 12385-4. Both ends with A 15 thimble, DIN 6899, for pin Ø 32 mm. Minimum breaking strain 12600 kN, zinc plated.

Nominal length [mm]	Weight [kg]	
1000	1.50	270151133
1100	1.59	270151134
1200	1.67	270151135
1300	1.76	270151172
1350	1.80	270151136
1400	1.85	270151173

Cable accessories



Cable pulley with bracket

Self colour.

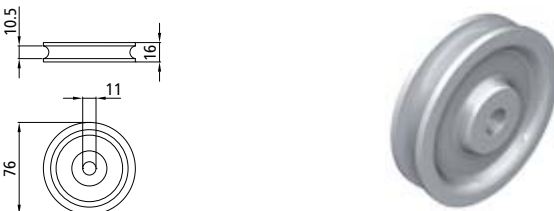
Dim. d [mm]	Dim. b [mm]	Dim. h [mm]	Dim. s [mm]	Dim. t [mm]	Weight [kg]	
60	50	28	11	79	0.36	270151143
80	70	31	13	87	0.58	125151117



Cable pulley

Self colour.

Dim. d [mm]	Dim. a [mm]	Dim. h [mm]	Dim. s [mm]	Weight [kg]	
60	8	18	11	0.17	215151114
70	8.5	21	13	0.26	215151142
80	10	21	13	0.28	215151115



Cable pulley Ø 76 mm

Plastic, weight 0.04 kg.

215151260



Bracket

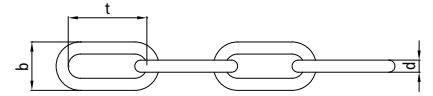
Steel, self colour.

Dim. b [mm]	Dim. d [mm]	Dim. h [mm]	Dim. t [mm]	Weight [kg]	
50	8.5	28	56	0.17	270151144
70	10	31	65	0.28	125151118

Straight C-link chain

DIN 5685, zinc plated.

Dim. d [mm]	Dim. b [mm]	Dim. t [mm]	~ Braking strain [N]	Length [m]	Weight [kg/m]	
2	8	22	1250	30	0.06	271151198
3	12	26	2800	30	0.15	271151200
4	16	32	5000	10	0.27	271152202
4	16	32	5000	30	0.27	271151202
5	20	35	7750	30	0.43	271151204
6	24	42	11500	30	0.63	271151206
8	32	52	20000	30	1.10	271151209
10	40	65	31000	30	1.75	271151211

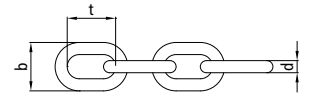


➔ Round steel link chains to DIN 5685 are not tested for strength and therefore may not be used as a load bearing, slinging or transporting medium. The given breaking strains are only calculated values.

Straight A-link chain

DIN 5685, zinc plated.

Dim. d [mm]	Dim. b [mm]	Dim. t [mm]	~ Braking strain [N]	Length [m]	Weight [kg/m]	
2	8	12	1250	30	0.07	271151229
4	16	19	5000	30	0.30	271151233
7	28	28	15000	30	1.00	271151239



Tensioning chains DIN 691

Chain to DIN 763 with form A tensioning lever and form C eye bolt. Consisting of individual parts: chain part with tensioning lever and chain part with lever link eye. Chain thickness 6 mm, overall length 2300 mm; chain thickness 8 mm, overall length 2500 mm.

Description	Chain thickness [mm]	Finish	Weight [kg]	
With tensioning lever	6	self colour	0.90	270151077
With lever link eye	6	self colour	0.70	270151078
With tensioning lever	6	zinc plated	0.90	270152077
With lever link eye	6	zinc plated	0.70	270152078
With tensioning lever	8	self colour	1.66	270151079
With lever link eye	8	self colour	1.23	270151080
With tensioning lever	8	zinc plated	1.66	270152079
With lever link eye	8	zinc plated	1.23	270152080

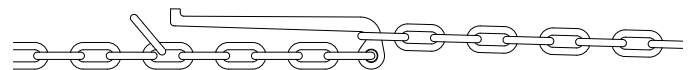
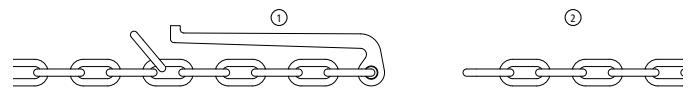
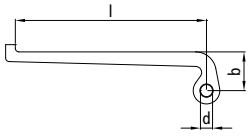


Illustration: ① Chain part with tensioning lever, ② chain part with lever link eye



Chain tensioning lever

DIN 691, form A, self colour.

For link thickness [mm]	Dim. d [mm]	Dim. b [mm]	Dim. l [mm]	Weight [kg]	
6	10	32	160	0.13	215131056
8	12	42	200	0.23	215131057



Chain quick-repair links

Zinc plated.

Nominal thickness [mm]	Weight [kg]	
3	0.004	270151174
4	0.008	270151176
6	0.024	270151180
8	0.055	270151183



Chain quick-repair links

With threaded sleeve, zinc plated.

Nominal thickness [mm]	Weight [kg]	
6	0.036	848110000
8	0.077	848111000
10	0.145	848112000
12	0.237	848113000



Chain tensioner 221C

Zinc plated steel, weight 0.73 kg.

103131538

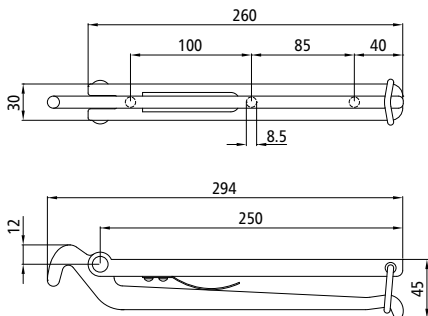


Table: Anchor track compatibility with shoring poles and cargo beams as well as beam shoes


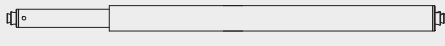




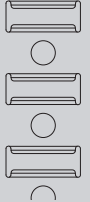
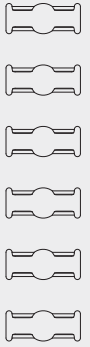
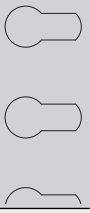

	Shoring poles									Cargo beams							Beam shoes	
																		
	142138500	142138501	142138502	142138503	142138504	142138505	142138506	142138507	142138508	142138597	142138073	142138074	142138510	142138511	142138521	142138522	142138725	142138085
Round hole anchor tracks 	122138003	•	•	•	•	•	•	•	•	•								
	122138011	•	•	•	•	•	•	•	•	•								
	122138012	•	•	•	•	•	•	•	•	•								
	142138002	•	•	•	•	•	•	•	•	•								
	142138004	•	•	•	•	•	•	•	•	•								
	142138005	•	•	•	•	•	•	•	•	•								
	142138028	•	•	•	•	•	•	•	•	•								
	142138598	•	•	•	•	•	•	•	•	•								
	142138611	•	•	•	•	•	•	•	•	•								
142138720	•	•	•	•	•	•	•	•	•									
142138617	•	•	•	•	•	•	•	•	•									
Airline profile anchor tracks 	142138031	•	•	•	•	•	•	•	•	•				•	•			
	142138032	•	•	•	•	•	•	•	•	•			•					
	142138034	•	•	•	•	•	•	•	•	•			•					
	142138791	•	•	•	•	•	•	•	•	•								
	142138589	•	•	•	•	•	•	•	•	•			•					
	142138590	•	•	•	•	•	•	•	•	•				•	•			
	142138712	•	•	•	•	•	•	•	•	•			•					
	142138718	•	•	•	•	•	•	•	•	•			•					
142138719	•	•	•	•	•	•	•	•	•				•	•				
Slot-hole anchor tracks 	122138025	•	•	•	•	•	•	•	•	•	•	•					•	
	122138026	•	•	•	•	•	•	•	•	•	•	•					•	
	142138021	•	•	•	•	•	•	•	•	•	•	•					•	
	142138023	•	•	•	•	•	•	•	•	•	•	•					•	
	142138700	•	•	•	•	•	•	•	•	•	•	•					•	
Combi anchor tracks 	122138009	•	•	•	•	•	•	•	•	•	•	•					•	
	122138020	•	•	•	•	•	•	•	•	•	•	•					•	
	142131851	•	•	•	•	•	•	•	•	•	•	•					•	
	142138008	•	•	•	•	•	•	•	•	•	•	•					•	
	142138015	•	•	•	•	•	•	•	•	•	•	•					•	
	142138016	•	•	•	•	•	•	•	•	•	•	•					•	
	142138017	•	•	•	•	•	•	•	•	•	•	•					•	
	142138019	•	•	•	•	•	•	•	•	•	•	•					•	
	142138289	•	•	•	•	•	•	•	•	•	•	•					•	
142138612	•	•	•	•	•	•	•	•	•	•	•					•		
142138701	•	•	•	•	•	•	•	•	•	•	•					•		
142138754	•	•	•	•	•	•	•	•	•	•	•					•		
Keyhole anchor tracks 	122138000	•	•	•	•	•	•	•	•	•	•	•					•	
	142138001	•	•	•	•	•	•	•	•	•	•	•					•	
Rod anchor tracks 	142138254	•	•	•	•	•	•	•	•	•								
	142138269	•	•	•	•	•	•	•	•	•								
	142138755	•	•	•	•	•	•	•	•	•								

Table: Anchor track compatibility with tie-down strap end fittings




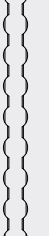
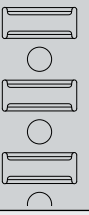
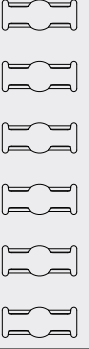
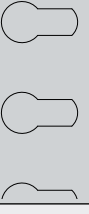

																			
		Round hole end fitting 5007 (Ø20)	Round hole end fitting 5008 (Ø25)	Double wire J hook 2503	Simple Airline fitting 570	Simple Airline fitting 600	Double Airline fitting 571	Fourfold Airline fitting 579	Fourfold Airline fitting 702	Flat hook 2502	Flat hook 2504 with safety catch	Combi anchor track end fitting 5001		Combi anchor track end fitting 585	S-hook 2501				
Round hole anchor tracks 	122138003		•																
	122138011		•																
	122138012		•																
	142138002		•																
	142138004	•																	
	142138005		•																
	142138028		•																
	142138598	•																	
	142138611	•																	
	142138720	•																	
142138617		•																	
Airline profile anchor tracks 	142138031				•	•	•	•	•										
	142138032				•	•	•	•	•										
	142138034				•	•	•	•	•										
	142138791				•	•	•	•	•										
	142138589				•	•	•	•	•										
	142138590				•	•	•	•	•										
	142138712				•	•	•	•	•										
	142138718				•	•	•	•	•										
	142138719				•	•	•	•	•										
Slot-hole anchor tracks 	122138025	•									•	•							
	122138026		•								•	•	•						
	142138021	•									•	•	•						
	142138023		•								•	•	•						
	142138700	•									•	•	•						
Combi anchor tracks 	122138009		•								•	•							
	122138020		•								•	•							
	142131851		•								•	•							
	142138008		•								•	•							
	142138015		•								•	•							
	142138016		•								•	•							
	142138017		•								•	•							
	142138019		•								•	•							
	142138289		•								•	•							
	142138612		•								•	•							
142138701		•								•	•								
142138754		•								•	•								
Keyhole anchor tracks 	122138000										•	•							
	142138001										•	•							
Rod anchor tracks 	142138254			•						•	•				•				
	142138269			•						•	•				•				
	142138743			•						•	•				•				
	142138755			•											•				

Table: BLC values (maximum permissible strap force) for the anchor tracks under tie-down strap loading







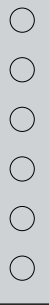
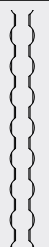
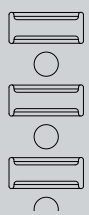
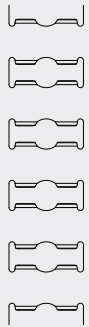
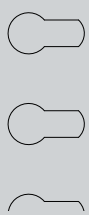



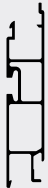



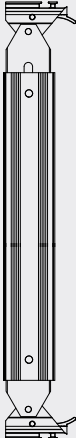

		 Tie-down strap with round hole end fitting 5007 (020)		 Tie-down strap with round hole end fitting 5008 (025)		 Tie-down strap with double Airline fitting 571		Polyester webbing 50 mm		 Tie-down strap with flat hook 2504 with safety catch		 Tie-down strap with combi anchor track end fitting 585	
		BLC [daN] at ↘		BLC [daN] at ↘		BLC [daN] at ↘		BLC [daN] at ↘		BLC [daN] at ↘		BLC [daN] at ↘	
		90°	45°	90°	45°	90°	45°	90°	45°	90°	45°	90°	45°
Round hole anchor tracks 	122138003												
	122138011	500	500										
	122138012			500	500								
	142138002			500	500								
	142138004	500	500										
	142138005			500	500								
	142138028			500	500								
	142138598	500	500										
	142138611			500	500								
142138720			500	500									
142138617			500	500									
Airline profile anchor tracks 	142138031					1500	1000						
	142138032					1000	1000						
	142138034					1000	1000						
	142138791					2500	2500						
	142138589					1000	1000						
	142138590					1500	1000						
	142138712					1000	1000						
	142138718					1000	1000						
	142138719					1500	1000						
Slot-hole anchor tracks 	122138025										1000	1000	
	122138026										1000	1000	
	142138021										1000	1000	
	142138023										1200	1200	
	142138700										800	800	
Combi anchor tracks 	122138009										1000	1000	
	122138020										1000	1000	
	142131851										1000	1000	
	142138008										1000	1000	
	142138015										1200	1200	
	142138016										1000	1000	
	142138017										1000	1000	
	142138019										500	500	
	142138289										1000	1000	
	142138612										800	800	
	142138701										800	800	
142138754										1000	1000		
Keyhole anchor tracks 	122138000										800	800	
	142138001										800	800	
Rod anchor tracks 	142138254									750	850		
	142138269									750	850		
	142138743					550	550						
	142138755									700	800		

Table: aluminium profiles with Airline system compatibility with shoring poles and cargo beams as well as tie-down strap end fittings

		 644007	 621317	 644011	 644009 ➔ The profiles 621317, 644009 and 644011 in combination with tie-down straps may only be deployed using the banding restraint method.
Shoring poles 	142138500	•	•	•	•
	142138501	•	•	•	•
	142138502	•	•	•	•
	142138503	•	•	•	•
	142138504	•	•	•	•
	142138505	•	•	•	•
	142138506	•	•	•	•
	142138507	•	•	•	•
	142138508	•	•	•	•
Cargo beams with Airline system 	142138510	•	•	•	•
Airline fittings 	Simple Airline fitting 570	•	•	•	•
	Simple Airline fitting 600	•	•	•	•
	Double Airline fitting 571	•	•	•	•
	Fourfold Airline fitting 579	•	•	•	•
	Fourfold Airline fitting 702	•	•	•	•

Article number index

103131538	59	142138016	8	142138538	29
105131397	43	142138017	8	142138539	31
105131557	42	142138019	8	142138540	31
105131595	42	142138021	10	142138541	31
105131596	42	142138023	10	142138542	31
105131659	40	142138028	6	142138543	31
105131660	40	142138031	13	142138544	30
105131809	40	142138032	12	142138545	30
105131810	40	142138034	13	142138546	38
105131811	40	142138073	22	142138547	38
105131927	43	142138074	22	142138548	38
105131928	11	142138085	22	142138549	38
122138000	7	142138088	24	142138550	38
122138003	5	142138089	24	142138551	38
122138006	15	142138239	27	142138552	38
122138009	8	142138240	27	142138553	38
122138011	6	142138247	27	142138554	38
122138012	5	142138248	26	142138555	38
122138018	15	142138254	11	142138556	38
122138020	9	142138269	11	142138557	38
122138025	10	142138289	8	142138558	38
122138026	10	142138296	24	142138559	39
122138110	53	142138500	16	142138560	39
122138113	53	142138501	16	142138561	39
122138231	31	142138502	16	142138562	39
122138234	31	142138503	16	142138563	39
122138256	30	142138504	17	142138564	39
122138294	34	142138505	17	142138565	39
125131005	47	142138506	17	142138566	39
125131006	47	142138507	17	142138567	39
125151117	57	142138508	17	142138568	28
125151118	57	142138509	24	142138569	26
142102144	23	142138510	21	142138570	35
142131851	49	142138511	21	142138571	35
142131852	27	142138517	37	142138572	31
142131854	27	142138518	37	142138573	28
142131855	27	142138519	36	142138574	28
142131856	36	142138521	21	142138575	28
142131857	36	142138522	21	142138576	29
142131858	28	142138523	25	142138577	29
142131859	28	142138524	25	142138578	29
142131860	32	142138525	25	142138579	35
142131861	32	142138526	25	142138580	27
142136067	37	142138527	25	142138581	38
142136068	37	142138528	30	142138582	38
142136069	37	142138529	30	142138583	23
142136070	37	142138530	26	142138584	24
142136071	37	142138531	26	142138585	35
142138001	7	142138532	31	142138586	32
142138002	5	142138533	31	142138587	33
142138004	5	142138534	26	142138588	27
142138005	6	142138535	26	142138589	12
142138008	8	142138536	26	142138590	13
142138015	8	142138537	29	142138591	33

142138596	24	142138755	10	270151155	56
142138597	16	142138758	37	270151156	56
142138598	6	142138759	37	270151167	56
142138599	15	142138761	19	270151168	56
142138600	35	142138762	19	270151169	56
142138610	7	142138763	19	270151172	57
142138611	7	142138764	19	270151173	57
142138612	9	142138765	19	270151174	59
142138615	38	142138766	19	270151176	59
142138616	38	142138767	20	270151180	59
142138617	5	142138768	20	270151183	59
142138623	27	142138769	20	270152077	58
142138625	27	142138770	20	270152078	58
142138700	10	142138771	20	270152079	58
142138701	9	142138772	20	270152080	58
142138702	35	142138774	16	271151081	55
142138703	14	142138775	16	271151082	55
142138704	36	142138776	17	271151083	55
142138705	32	142138777	17	271151085	55
142138706	33	142138778	16	271151088	55
142138707	33	142138779	16	271151198	58
142138708	35	142138780	16	271151200	58
142138709	27	142138781	17	271151202	58
142138710	27	142138782	17	271151204	58
142138711	34	142138783	49	271151206	58
142138712	14	142138791	12	271151209	58
142138713	30	142623144	23	271151211	58
142138714	30	215131004	47	271151229	58
142138715	30	215131056	59	271151233	58
142138716	30	215131057	59	271151239	58
142138717	30	215131536	50	271152202	58
142138718	12	215151114	57	271153084	56
142138719	13	215151115	57	271153085	56
142138720	14	215151142	57	271153086	56
142138721	15	215151260	57	271155084	56
142138722	15	250141723	34	271155085	56
142138723	23	270151077	58	295131386	37
142138724	25	270151078	58	295131387	37
142138725	22	270151079	58	295131391	41
142138730	18	270151080	58	295131392	41
142138731	18	270151123	56	295131393	41
142138732	18	270151126	56	295131543	43
142138733	18	270151127	56	295131544	43
142138734	18	270151128	56	295131560	42
142138739	27	270151129	56	295131590	42
142138742	22	270151130	56	295131663	39
142138743	11	270151133	57	295131664	39
142138744	36	270151134	57	295131672	40
142138745	35	270151135	57	295131698	40
142138746	28	270151136	57	295131711	44
142138747	26	270151143	57	295131712	44
142138748	29	270151144	57	295131739	43
142138749	26	270151145	56	295131743	40
142138750	14	270151148	56	295131746	43
142138753	26	270151151	56	295131794	41
142138754	9	270151154	56	295131824	39

295131912	34	605646477	46
295131913	34	605646478	46
295131914	42	848110000	59
295131916	44	848111000	59
295131917	44	848112000	59
295131918	44	848113000	59
295132672	40	848673000	38
295133562	41		
295133563	41	611026	49
295134121	47	611041	49
295161016	53	621045	48
295161049	53	621223	51
295161090	53	621282	51
295161103	54	621315	48
295161107	54	622922	48
295161108	54	644001	52
295161110	54	644003	52
295161258	54	644006	52
320131382	50	644007	52
320131383	50	644008	51
345551190	47	644009	51
345551746	47	644010	50
345551747	47	644011	50
345551748	47		
345552085	47		
355161323	55		
355161325	55		
355161326	55		
355161327	56		
355161328	56		
360713203	37		
360713205	37		
360713206	37		
360713212	37		
372561434	45		
372561435	45		
372561436	45		
372561437	45		
372561439	45		
372561440	45		
372562434	45		
372562436	45		
372562437	45		
372562440	45		
373561434	45		
373561435	45		
373561436	45		
373561437	45		
373561440	45		
373561460	45		
373561479	45		
605646140	32		
605646150	29		
605646331	45		
605646475	46		
605646476	46		

I. General

1. All deliveries, services and offers effected by SUER Nutzfahrzeugtechnik GmbH & Co. KG - hereinafter referred to as "SUER" - are exclusively subject to these Terms and Conditions, as a result of which all future business relationships will also be subject to them, even if they are not expressly agreed upon again. These Terms and Conditions will be regarded as having been accepted at latest on receipt of the goods or service(s) in question. Counterconfirmation on the part of the Customer in which attention is drawn to the Customer's own terms and conditions is herewith opposed.

2. Any exceptions to these Terms and Conditions require SUER's written acknowledgement in order to be legally valid.

II. Submission of offers, Conclusion of contract

1. Offers submitted by SUER are non-binding and subject to alteration, and are understood as being on ex warehouse basis. Orders and declarations of acceptance require acknowledgement in written form or by fax in order to be legally binding. This also applies to supplements, amendments or ancillary agreements to the same.

2. Details of dimensions and weights are subject to tolerances that are customary in the trade. Weights are calculated on the basis of the values given in the catalogue. These are regarded as being known.

Aluminium profiles are subject to the following standards:

a) DIN 17615 Section 3 (dimension) tolerances of profiles of AlMgSi 0.5

b) DIN 1748 Section 2 Technical terms and conditions of delivery

c) DIN 1748 Section 4 Admissible deviations

III. Prices

Agreed prices are understood as net without any deduction and applicable to the manufacture and handing over of the goods in question. These prices do not include the respective statutory value added tax, nor carriage, dispatch and packaging costs nor any other attendant costs. The prices quoted in the order acknowledgement shall in all cases be decisive.

IV. Time of delivery, Time of performance

1. The agreement of delivery periods or deadlines that can be agreed on a binding or non-binding basis must be effected in writing in order to be legally valid. Delivery periods or deadlines that are merely agreed as "approximate" or which are not agreed in writing as "fixed" or "binding" shall be regarded as being merely approximate. Delivery periods commence as from the day on which the respective order has been definitively acknowledged, however not until all relevant details have been fully clarified in respect of design and not until the receipt of all documentation that is necessary to enable fulfilment of the order.

2. The delivery period will be deemed to have been adhered to on issue of notice of readiness for dispatch.

3. Even in the case of binding periods and deadlines, the Supplier shall not be liable for delays in delivery and/or provision of performance due to force majeure or to occurrences (such as, in particular, strikes, lockouts, official measures, etc., even if it is SUER's suppliers or their sub-suppliers that are subject to these occurrences) that essentially hamper or render delivery impossible. Moreover, such occurrences shall entitle SUER to postpone the delivery or service for the duration of the hindrance plus a reasonable re-start period. Should the hindrance last for more than three months (this period to be adjusted according to requirement) SUER may then partially or completely withdraw from the contract in respect of the unfulfilled part thereof.

4. If no binding date for delivery has been agreed in writing then any right to withdraw from the contract on the basis of non-provision of performance or performance that is not in accordance with the contract shall be excluded for a period of three months as from the non-binding delivery date. Such withdrawal will only be admissible following the fixing of a reasonable period of grace of no less than three weeks. Should the delivery period be extended or should SUER be released from its obligation, the Customer may not derive any claims for damages therefrom. The Company shall without delay notify the Customer in the event of any occurrences or circumstances which might cause any delay of performance

5. Partial deliveries and partial performance of services on the part of SUER shall be admissible at any time. In particular finished goods are to be accepted by the Customer regardless of the agreed time of delivery. Additional delivery going back to deviations that are customary in the trade shall be admissible.

V. Transfer of risk

1. Risk shall pass to the Customer as soon as the consignment in question has been handed over to the person responsible for its shipment or has left SUER's warehouse or plant for the purposes of dispatch. This also applies to carriage-paid deliveries. Should the dispatch of goods in question be impossible for reasons for which SUER is not responsible then the risk already passes to the Customer on notification of readiness to deliver.

2. Insurance against damage and loss in transit will only be taken out at the specific request and at the expense of the Customer. Goods in respect of which notice of readiness to deliver has been issued at the agreed time are to be called off without delay. If this is not done, SUER shall at its own discretion be entitled to store such goods and invoice them as having been delivered ex works or ex warehouse; the Customer shall assume the costs and risks involved in such instance. In the event of any call-off delay on the

part of the Customer SUER may then fix a period of grace; the Customer's failure to meet this final deadline shall entitle SUER to withdraw from the contract or demand compensation for non-performance. In the event that the Customer expressly refuses to take delivery SUER shall not need to fix a grace period.

VI. Guarantee and liability

1. Technical data, analysis details, pictures, drawings, dimensions, weights or other performance data contained in brochures, advertising material or similar documents merely serve general descriptive purposes. They do not constitute quality descriptions or guarantees unless specifically described as such, and shall only be regarded as binding if this has been specifically agreed in writing.

2. Product characteristics or features shall only be deemed to have been agreed upon if specifically referred to as "agreed characteristics" on the order form or on the order acknowledgement. SUER's sales personnel are not authorised to conclude verbal ancillary agreements or give verbal guarantees which go over and beyond the content of written contracts.

3. SUER guarantees the faultlessness of the supplied goods in line with the corresponding state of the art. The duration of this guarantee shall be one year as from delivery of the goods in question. The stipulation contained in Article 479 Paragraph 2 of the German Civil Code (BGB) shall apply notwithstanding the above. Reduction of the limitation period shall not apply in those cases in which SUER has unrestricted liability in accordance with these Terms and Conditions.

4. If the Customer fails to comply with operating or maintenance instructions, or carries out alterations to the products, or replaces parts or uses materials that do not correspond to the original specifications then the guarantee will no longer apply unless the Customer is able to successfully disprove the correspondingly substantiated allegation that the fault resulted from any of the above circumstances.

5. The Customer shall notify SUER in writing of any obvious defect within 24 hours, or immediately on discovery in the case of other defects, however no later than one week after receipt of the delivery item. Defects that do not come to light within this period despite thorough inspection shall be notified in writing to SUER immediately on discovery. Complaints relating to defects that first come to light during processing can only be taken account of provided that the processing of the defective object is terminated immediately and SUER is given the opportunity to view said object at its request.

6. Should it delivery defective goods, SUER will be entitled to use its discretion as to whether it will meet its guarantee commitment by way of remedying the fault involved, replacing the defective goods with orderly ones, reimbursing the shortfall in value, or via cancellation of the relevant contract of sale. The pursuance of guarantee commitments at any locations other than those places of fulfilment contractually specified will entitle SUER to demand reimbursement by the Customer for the additional work involved and for any additional travel expenses that might be incurred.

7. The assignment to third parties of any guarantee claims to which the Customer is entitled is not admissible

8. Claims for damages asserted by the Customer in respect of material defects shall be subject to the restrictions defined in Section VII.

VII. Limitation of liability

Irrespective of their legal basis, claims for damages asserted by the Customer shall be excluded. This exclusion of liability shall not apply if the damage sustained has arisen from intent or gross negligence on the part of SUER or people acting for or on behalf of SUER. In the case of negligent violation of essential contractual obligations SUER shall only be liable for typically foreseeable damage or loss. Nor shall exclusion of liability and limitation of liability apply in the case of damage or loss incurred through death, physical injury or harm to health as a result of negligent violation of obligations on the part of SUER or of wilful or negligent violation of obligations on the part of any legal representative of SUER or persons acting for or on behalf of SUER. Nor shall exclusion of liability apply if the damage or loss involved has arisen from a lack of warranted characteristics or features or if SUER has fraudulently concealed any defect or nonconformity in the goods concerned. Claims in accordance with product liability law shall apply notwithstanding the above.

VIII. Reservation of ownership

1. SUER reserves the ownership of any and all delivered goods until all its claims vis-à-vis the Customer have been settled, including claims arising in the future even from contracts concluded simultaneously or later than the contract in question. This shall similarly apply in the event that individual or all claims on the part of SUER have been included in a current account and the account has been made up and acknowledged.

2. The Customer shall only then be entitled to resell reserved goods within the framework of regular business activities provided that it herewith and now assigns all rights and receivables vis-à-vis the arising to it vis-à-vis the purchaser or third party as a result of the resale. If reserved goods are resold in unprocessed or processed state or in conjunction with items that are the exclusive property of the Customer, the Customer herewith and now assigns to SUER any and all receivables to their full extent arising from the resale. If reserved goods are resold in processed state or in conjunction with items that are not the property of the Customer, the Customer herewith and now assigns

to SUER any and all receivables arising from the resale to the amount of the value of the reserved goods with all ancillary rights and priority over the rest. SUER herewith accepts said assignment. Even after such assignment the Customer shall remain entitled to collect the respective receivables. SUER's entitlement to collect such receivables itself shall remain unaffected; however, SUER undertakes to refrain from collecting such receivables provided that the Customer fulfils its payment obligations and other commitments in due form. If necessary, SUER may demand that the Customer discloses to it the assigned claims and the related debtors, provides all details required to enable collection, and hands over the relevant documentation and notifies the debtors of this assignment.

3. Any processing of reserved goods by the Customer for SUER shall not make the latter subject to any obligations. If reserved goods are processed, combined, mixed or mingled with other goods that are not the property of SUER then SUER shall be entitled to co-ownership of the new item according to the proportion of the invoice value of the reserved goods to that of the other processed goods at the time of said processing, combination, mixing or mingling. In the event that the Customer acquires sole ownership of the new item, the parties agree that the Customer will grant SUER co-ownership of the new item according to the proportion of the processed, combined, mixed or mingled reserved goods contained in the new item, and will store the new item for SUER free of charge.

4. If the payment of the purchase price by the Customer is effected by way of a bill of exchange then the reservation of ownership and the claim relating to the supply of goods on which said reservation of ownership is based will not expire until the bill of exchange has been honoured by the Customer as drawee.

5. In the event of seizure of reserved goods by third parties the Customer shall draw attention the fact that it is the property SUER, and the third parties are to be informed accordingly without delay. The Customer shall bear all costs incurred in reversing the seizure and recovering the contractual item.

6. Should the Customer act in breach of contract - in particular by falling into arrears with payments - SUER shall be entitled to repossess the reserved goods or demand assignment of the rights to the recovery thereof vis-à-vis third parties. Unless subject to the regulations on financial assistance between entrepreneurs and consumers (Articles 499 ff., German Civil Code/BGB), the taking back or seizure of reserved goods shall not constitute withdrawal from the contract. In the event of repossession SUER shall, having given due warning and fixed a final deadline which the Customer has failed to meet, be entitled to sell the goods in question for the best possible price and charge up the proceeds to the purchase price.

7. If the value of the existing collateral exceeds the collateralized claims by more than 20 per cent, SUER shall then be obliged to release the corresponding proportion of collateral if the Customer so demands.

IX. Payment

1. Unless otherwise agreed, amounts invoiced by SUER fall due without discount on receipt of the respective invoice. The Customer shall be deemed to have fallen into arrears if the payment in question has not been received within 14 days, and 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, and 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.

2. Should the Customer fall into arrears, SUER shall be entitled to charge interest at the statutory rate - or at a higher rate at which SUER itself has been charged and for which substantiation must be provided - as from the date on which the Customer has fallen into arrears.

3. Should circumstances come to SUER's notice which cast doubt on the creditworthiness of the Customer, SUER shall be entitled to make the entire remaining debt due and payable. In such instance SUER may demand the Customer to make advance payments or furnish security.

4. The Customer shall not be entitled to offsetting, retention or reduction - even in the case of complaints or counterclaims being asserted - unless such counterclaims have become legally effective or are beyond dispute.

X. Observance of secrecy

Unless specifically otherwise agreed in writing, information passed on to SUER in connection with the Customer's orders will not be regarded as being confidential.

XI. Concluding provisions

1. These Terms and Conditions are governed by the law of the Federal Republic of Germany, and the application of standard international law on sales is excluded.

2. Insofar as the Customer is a merchant within the meaning of the German Commercial Code (HGB), a legal entity under public law or a special public asset, the exclusive place of jurisdiction for all disputes arising from and in connection with the contractual relationship between SUER and Customer shall be Remscheid/Germany to the extent that this can be permissibly agreed.

3. Should one of the above provisions be or become invalid or unenforceable, the validity of the remaining clauses hereof shall in no way be affected. In such instance the parties hereto shall endeavour to replace the invalid or unenforceable clause with one that comes as close as possible to the sense and purpose of this agreement.

SUER Nutzfahrzeugtechnik GmbH & Co. KG

Office address:

Handelsstraße 5
42929 Wermelskirchen
Telephone +49 2196 946-0
Fax +49 2196 946-100

Email: info@suer.de
www.suer.de
www.fahrzeugbau-shop.de

Postal address:
P.O. Box 1580
42908 Wermelskirchen

Branches:

Kossaer Straße 2
04356 Leipzig
Telephone +49 341 52425-20
Fax +49 341 52425-21

Gottlieb-Daimler-Straße 3
71154 Nufringen
Telephone +49 7032 9586-5
Fax +49 7032 8004

Taitinger Straße 54
86453 Dasing
Telephone +49 8205 9611-0
Fax +49 8205 9611-22

Sales Offices:

Göhlsdorfer Straße 46
14550 Groß Kreutz
Telephone +49 33207 54842
Fax +49 2196 946-25551

Brokhuchtinger Landstraße 76
28259 Bremen
Telephone +49 421 875929
Fax +49 2196 946-25552

International Branches:

Suer Polska Sp. z o.o.
Bonikowo, ul. Dworcowa 17
PL 64-000 Koscian
Telephone +48 65 5129699
Fax +48 65 5132148
Email: info@suer.pl
www.suer.pl

UAB „Suer Baltic“
Linkmenų gatvė 25a
Vilnius LT-08217
Telephone +370 52196682
Fax +370 52105301
Email: suerbaltic@suer.lt
www.suer.lt

