



VARIO – Sliding Roof System

Proven Technology for Transport Logistics



www.EdschaTS.com

Das Original



Freight transport today

Rapid economic development and the associated expansion of the infrastructure lead to a constant rise in transport volumes. This enormous logistical challenge has primarily been met to date through creativity and the strong commitment of the people working in this industry. The further rise in demand for even greater trans-

port capacity, the increasing quality of freight goods and the accompanying increasing demand for security, productivity and speed of freight transport lead to greater requirements.

Edscha Trailer Systems, Europe's market and technological leader for sliding roofs for trucks, offers the optimum

roof system for transport vehicles with tarpaulin covers.

Edscha Trailer Systems stand for quality, flexibility and efficiency!



- A high and rising volume of cargo leads to increasing demands on technology and logistics
- The increased price and quality of cargo lead to increasing requirements
- International logistics standards lead to new challenges in cargo transportation

Edscha Trailer Systems sliding roof systems for increasing requirements



VARIO Full Tarpaulin Roof



Edscha TS full tarpaulin roof systems allow a fast and secure loading process as the cargo space can be opened up very quickly by sliding the full tarpaulin towards the bulkhead. Another advantage is the utilisation of the full cargo space while at the same time protecting the cargo. The drop sides

in this version secure the cargo in combination with the Edscha TS full tarpaulins in an ideal manner, even in difficult road conditions and critical weather conditions.

- **Highly flexible system**
- **Maximum usable cargo volume combined with optimised protection of the cargo**
- **Fastest loading and unloading, even in one-man operation**

fast, efficient and proven!



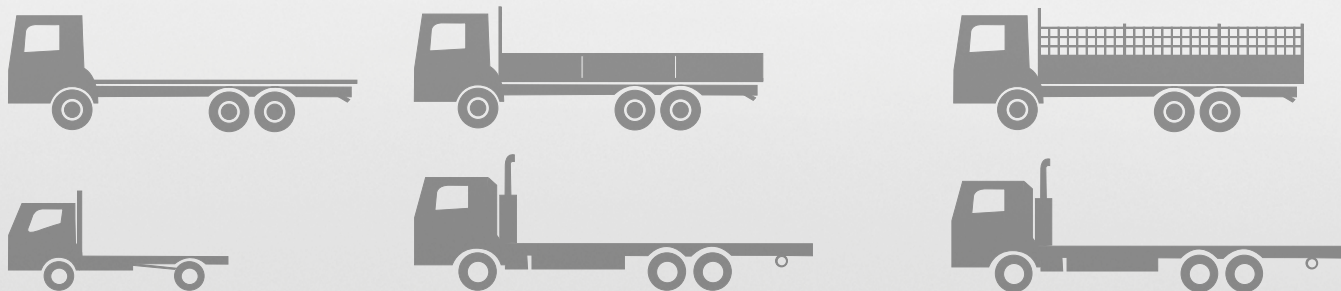
VARIO Curtain-Sider Roof



The Edscha TS Curtain sider is a further development of the closed structure. Side loading with a forklift is now possible, as for traditional drop side vehicles, which is a lot more efficient. Fast, almost complete opening of the sidewall means that bulky goods can be loaded very quickly.

The roof can be opened independently, making it possible to load bulky goods easily from above.

- **Very effective forklift loading from the side**
- **Cargo transportation, loading and unloading are fast, dry and safe**
- **Easy loading also possible from above**



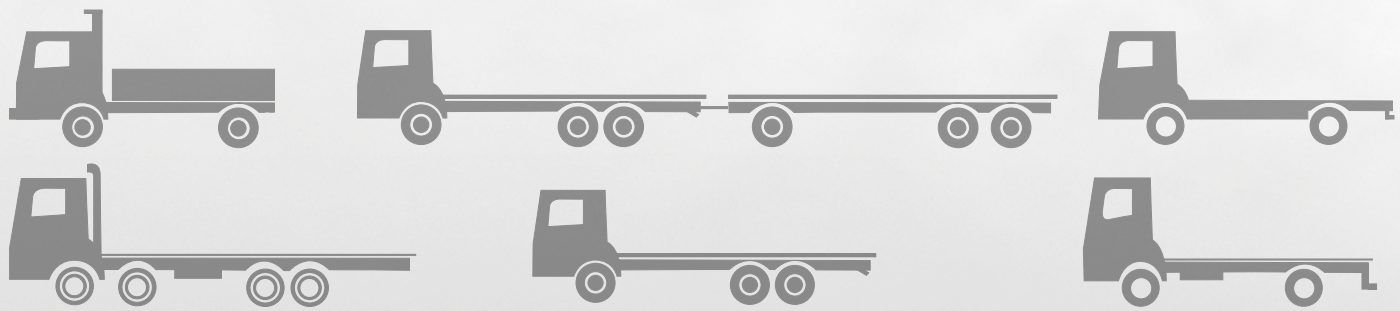
Full tarpaulin roofs: easy loading from above

Heavy industries like the steel industry produce some goods like beams that are several metres long and coils that weigh several tonnes and these have special requirements for their transportation, loading and unloading relating to the safety, productivity and efficiency of the roof that is used.

Edscha TS full tarpaulin systems are the optimum solution for these requirements. They offer both safe transportation of the bulky goods and the possibility of easy loading with a crane from above. At the same time the full tarpaulin can be opened very quickly and therefore efficiently and economically by just one person.

- **Particularly easy loading and unloading with crane systems and with limited heights**
- **Optimum loading of heavy goods with regard to speed, safety and efficiency**





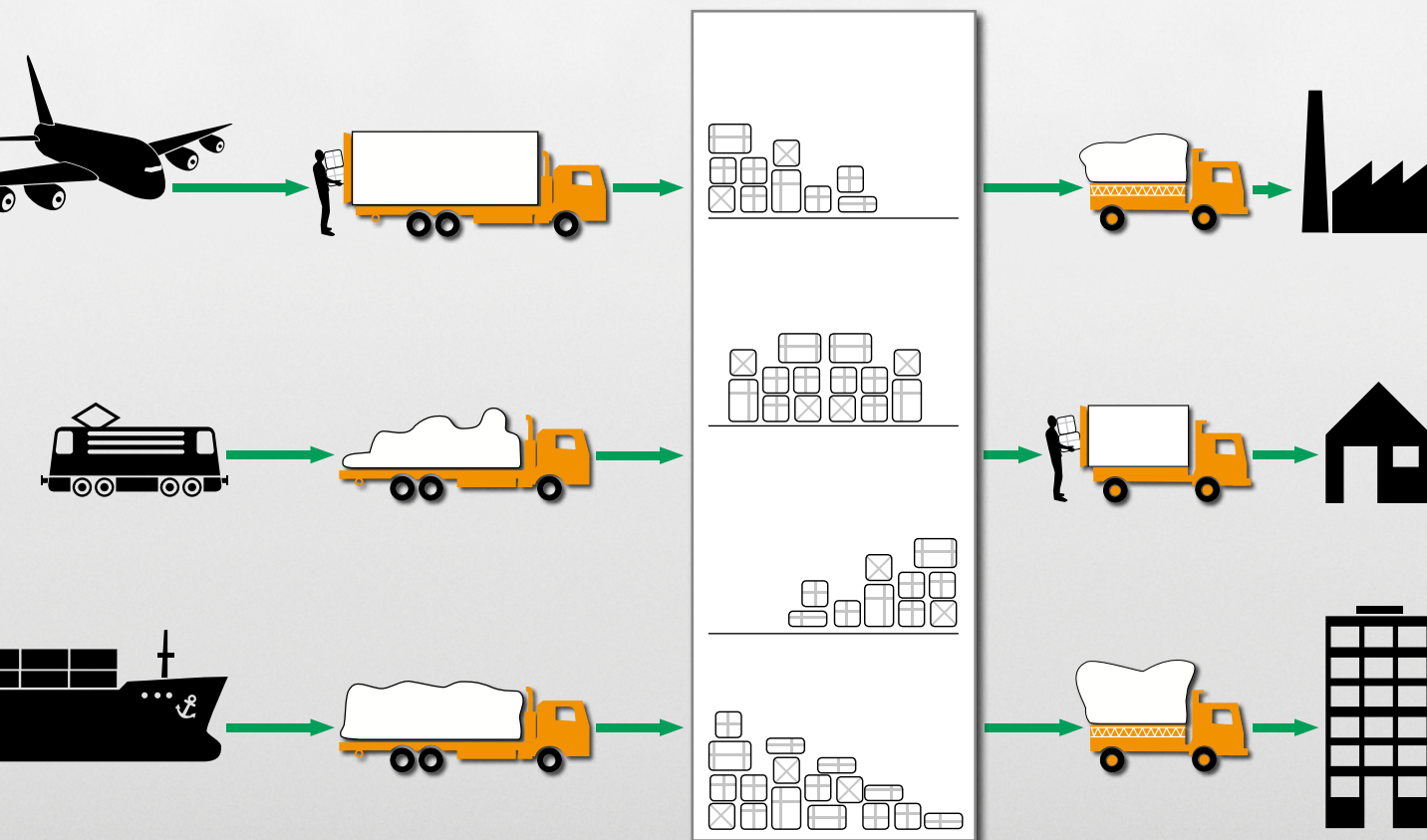
Curtain sider roofs: individual and fast loading from the side

Fast and flexible supply with the required products, as in just-in-time production in the automotive industry, is very important to an increasing number of companies. This development greatly increases requirements placed on transport companies. Efficient loading and unloading of goods is a central factor for the success of logistics services pro-

viders. Edscha TS Curtain siders fulfil the highest requirements for speed and productivity with their loading flexibility and especially the very effective options of side loading with a forklift or loading from above.

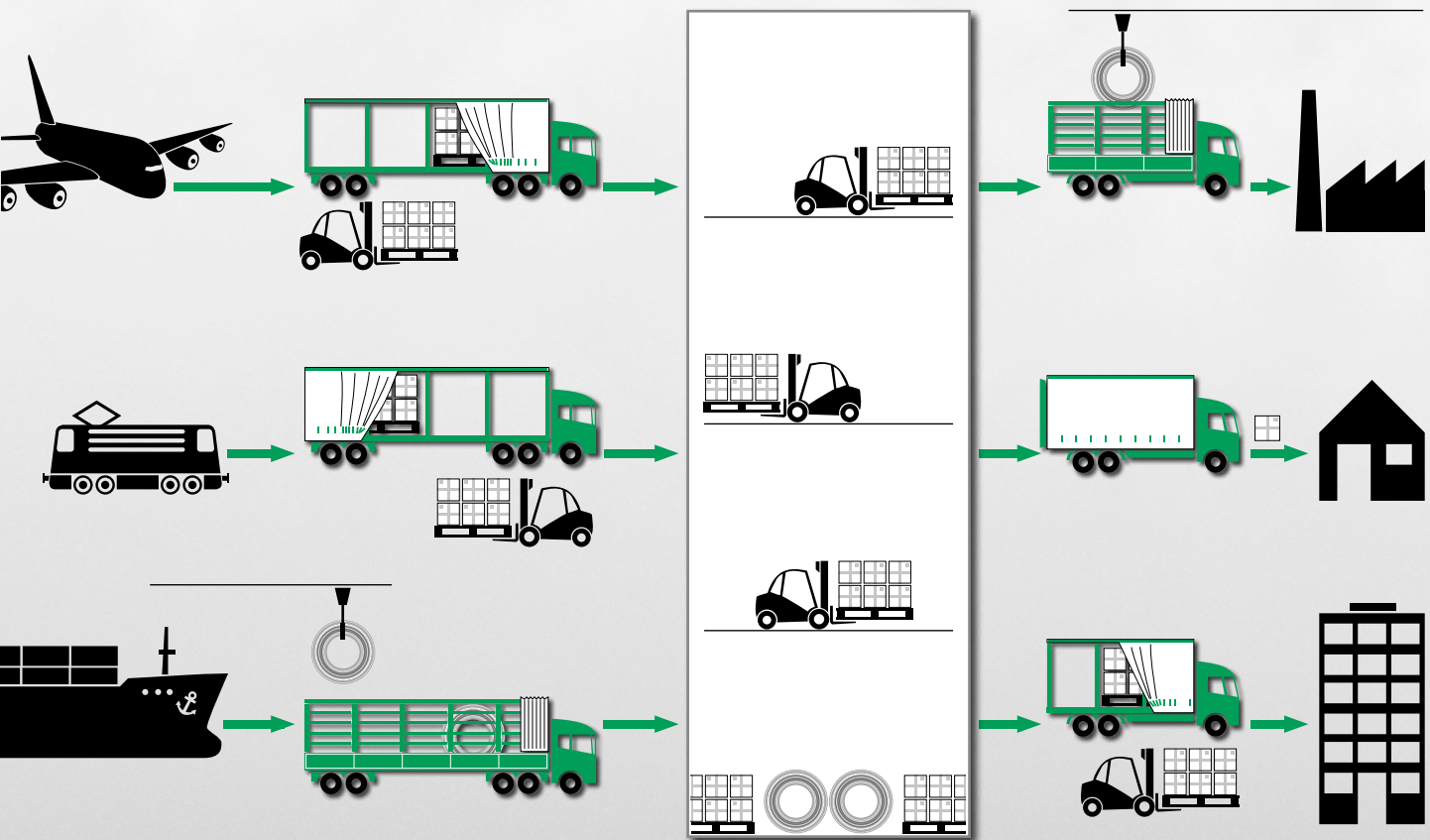
- **Fast, safe loading and unloading using side curtains and an independent roof**
- **A high level of flexibility in different loading situations**





Necessity of effective transloading of shipments





Efficiency improvements through industry standards & new technologies

Benefits of Edscha TS VARIO System

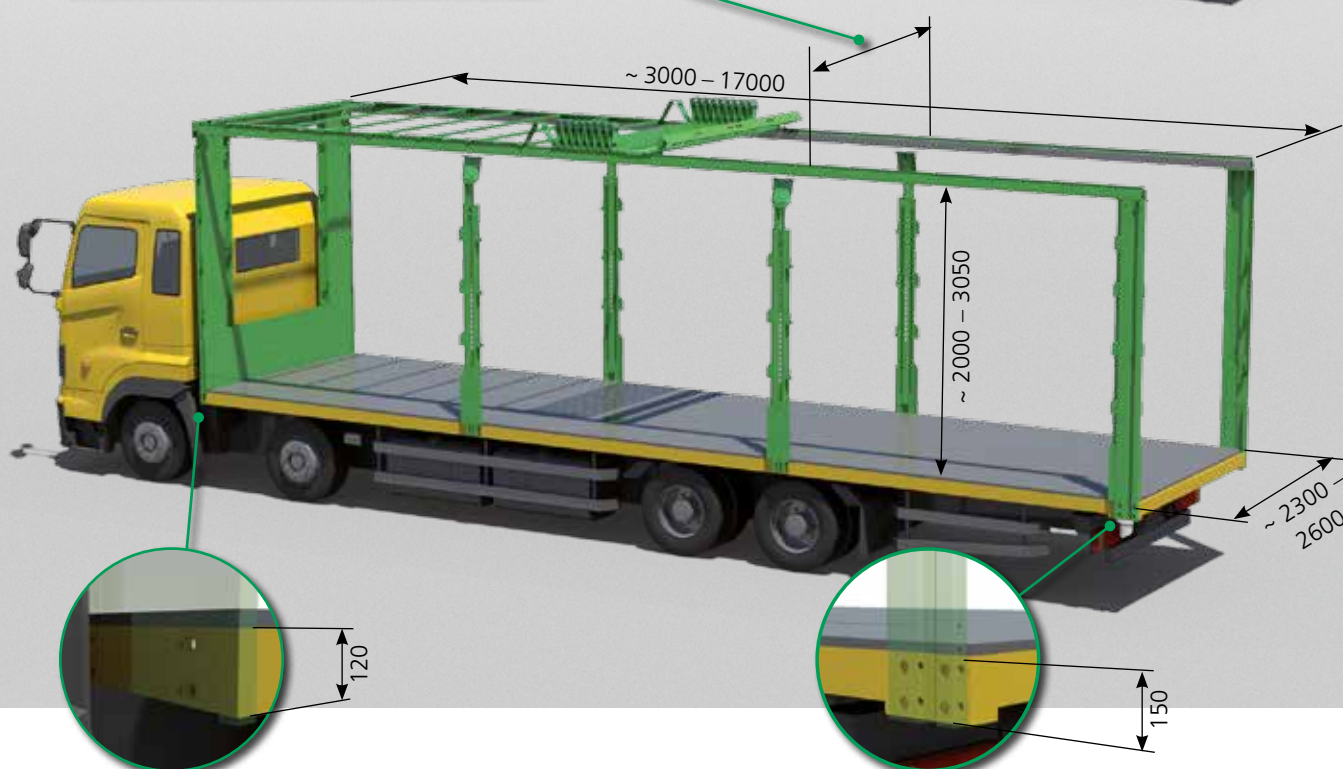
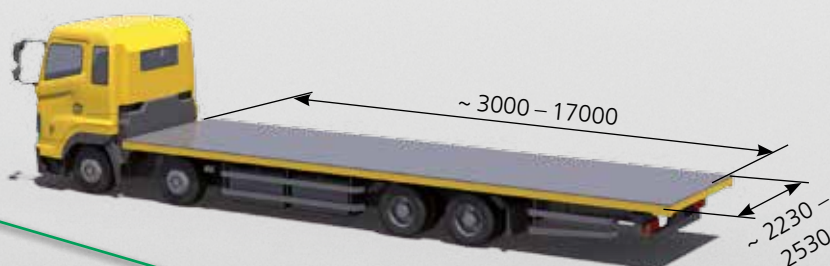
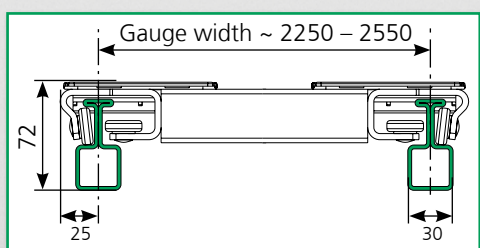
- 5 - 15 % more payload compared to steel-walls or steel-box
- Possibly ~10 % increasing turnover because 1 - 2,5 h time saving on any loadings
- Reselling - value increases up to the value of extra costs
- Risk of unpaid transports due to wet loads stops
- No tarpaulin-replacements needed for whole trailer life
- Added value for advertisement on tarp possible
- Huge savings for industry due to up to 20 times quicker loadings
- Cost reduction up to more than 15 INR per kilometer
- ROI in about only 1 year possible
- Proven german quality since 1969





Full tarpaulin roof system

New body



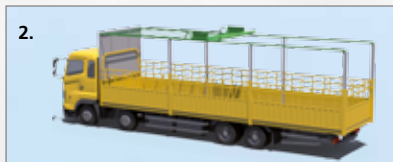
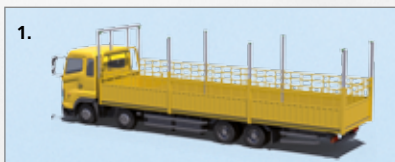
Full tarpaulin system (VP)

The Edscha TS sliding roof body components in the VP system allow maximum flexibility in the design of new and existing vehicles. Individual transport requirements, the desired scope of function and the nature of the basis vehicle define the selection of the body components. The high variability of the VP system allows the local vehicle builder to create a transport vehicle

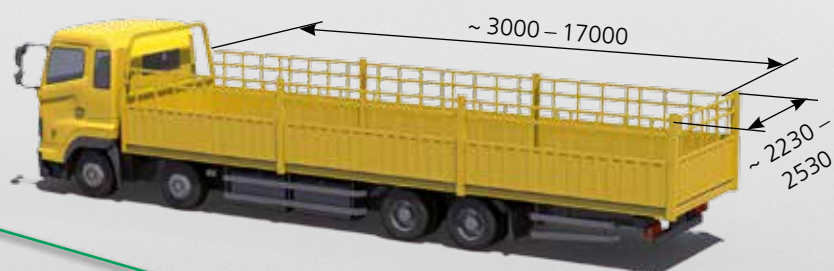
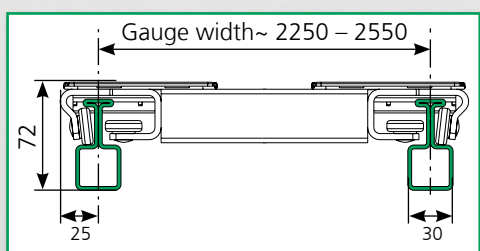
that is customised and complies with international standards from almost all basis vehicles. Edscha TS offers professional advice and the decades of experience of German engineers on site. There are only a few parameters to be considered when planning the body: the body gauge width is the most important value besides the length, width and height (= loading volume)

of the basis vehicle. This value is the average distance between the system running rails along which all moving roof and side tarpaulins are moved.

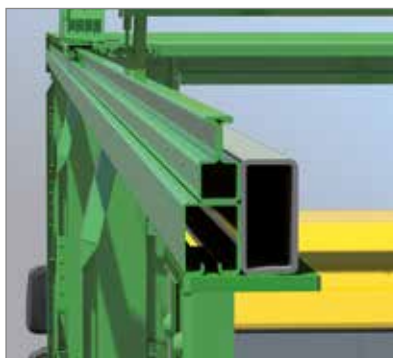
The value has been proven internationally and can usually be realised easily in most cases with Edscha TS VP system components, on new bodies and for extensions to drop side vehicles.



extension body



- High variability of the VP system
- Internationally proven system gauge widths
- New and extension bodies possible



Sliding pillar

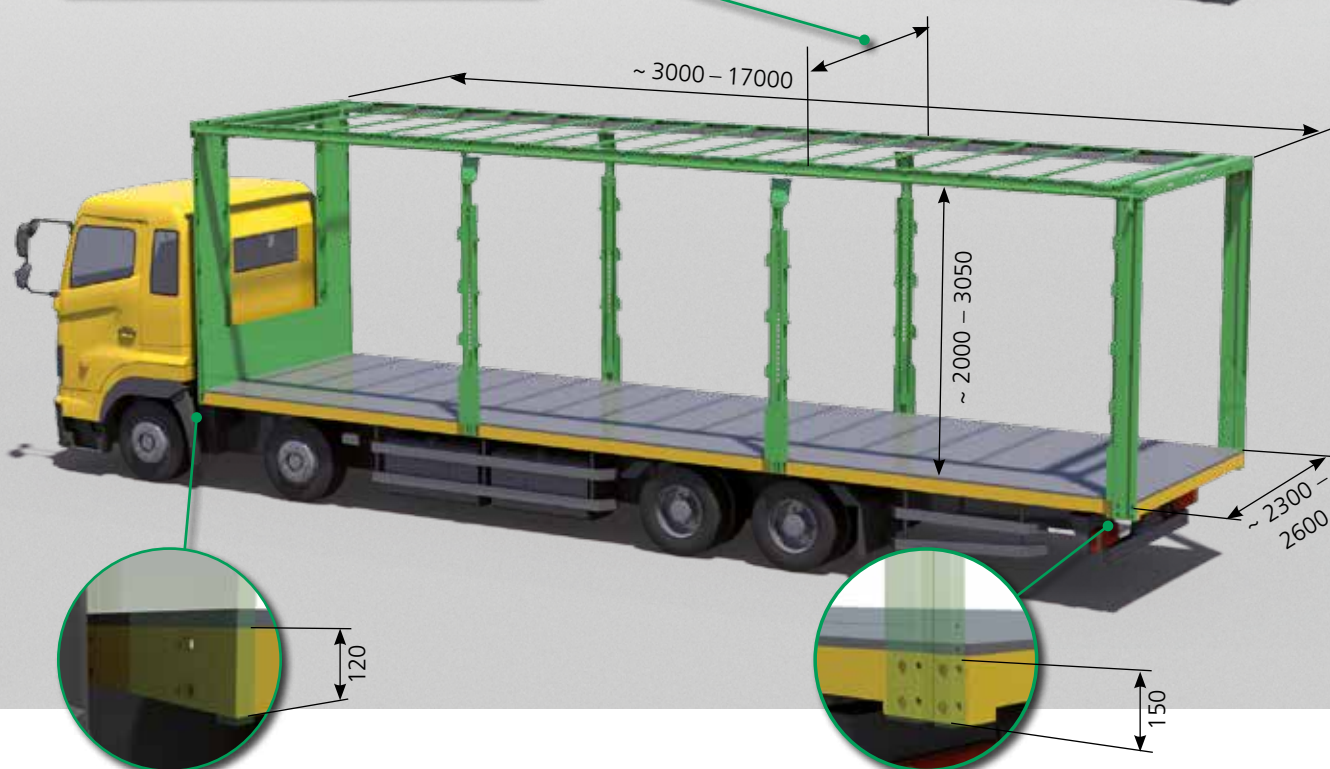
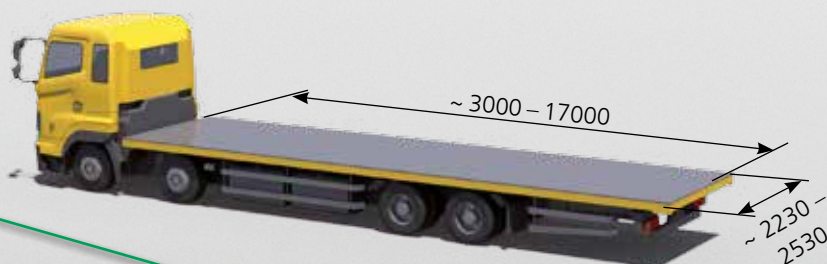
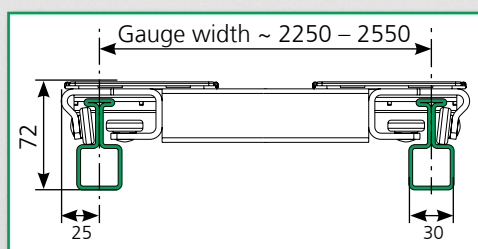


Fixed pillar



Curtain sider roof system

New body



Curtain sider system body (CS)

The Edscha TS sliding roof body components in the CS system give the greatest possible adaptability when designing bodies for new and existing vehicles.

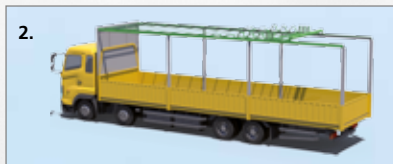
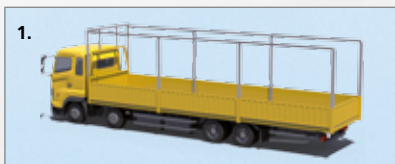
The selection of system components is defined depending on sector (e.g. consumer goods and industrial production, automotive industry, steel

products, construction materials etc.) based on your individual transport requirements, the required scope of function (e.g. sliding pillars, fixed pillars, rear doors, rear blind etc.) and the nature of the basis vehicle.

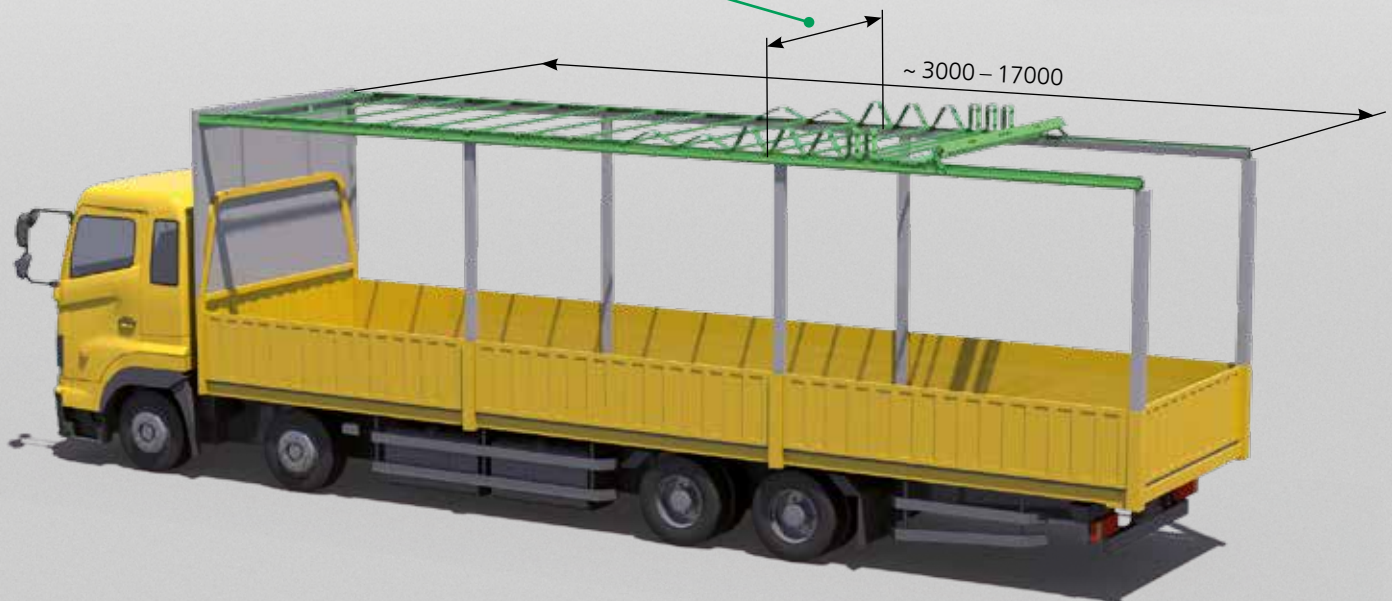
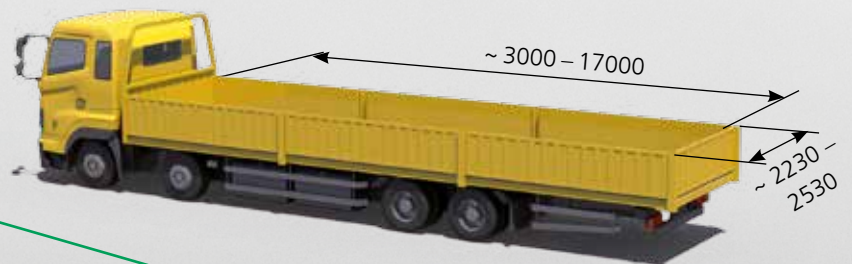
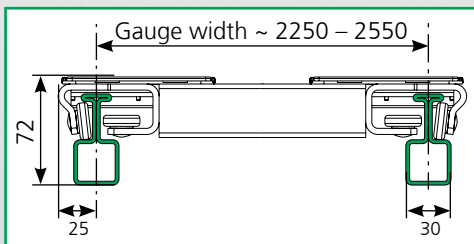
The highly variable CS system bodies by Edscha TS put the vehicle builder in a position to create a completely indi-

vidual transport vehicle from most basis vehicles that complies with international standards.

Edscha TS offers expert advice, decades of experience of German engineers and help with the planning and assembly on site. There are only a few parameters that need to be taken into account for body planning, as for the VP full tarpaulin system.



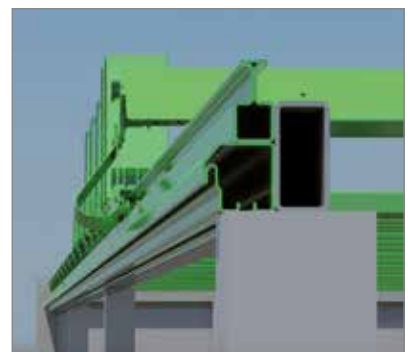
extension body



- High variability of CS system
- Internationally proven system gauge widths
- New body and extension body possible



Sliding pillar

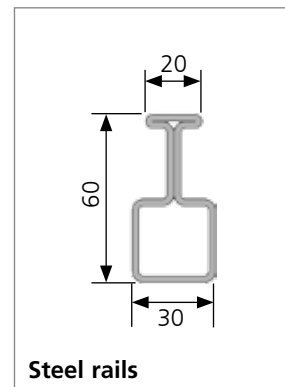
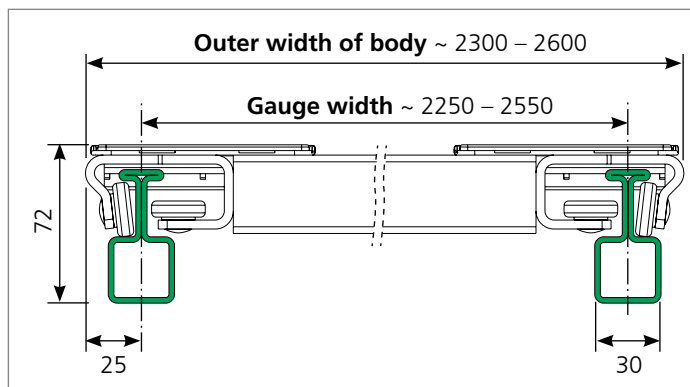
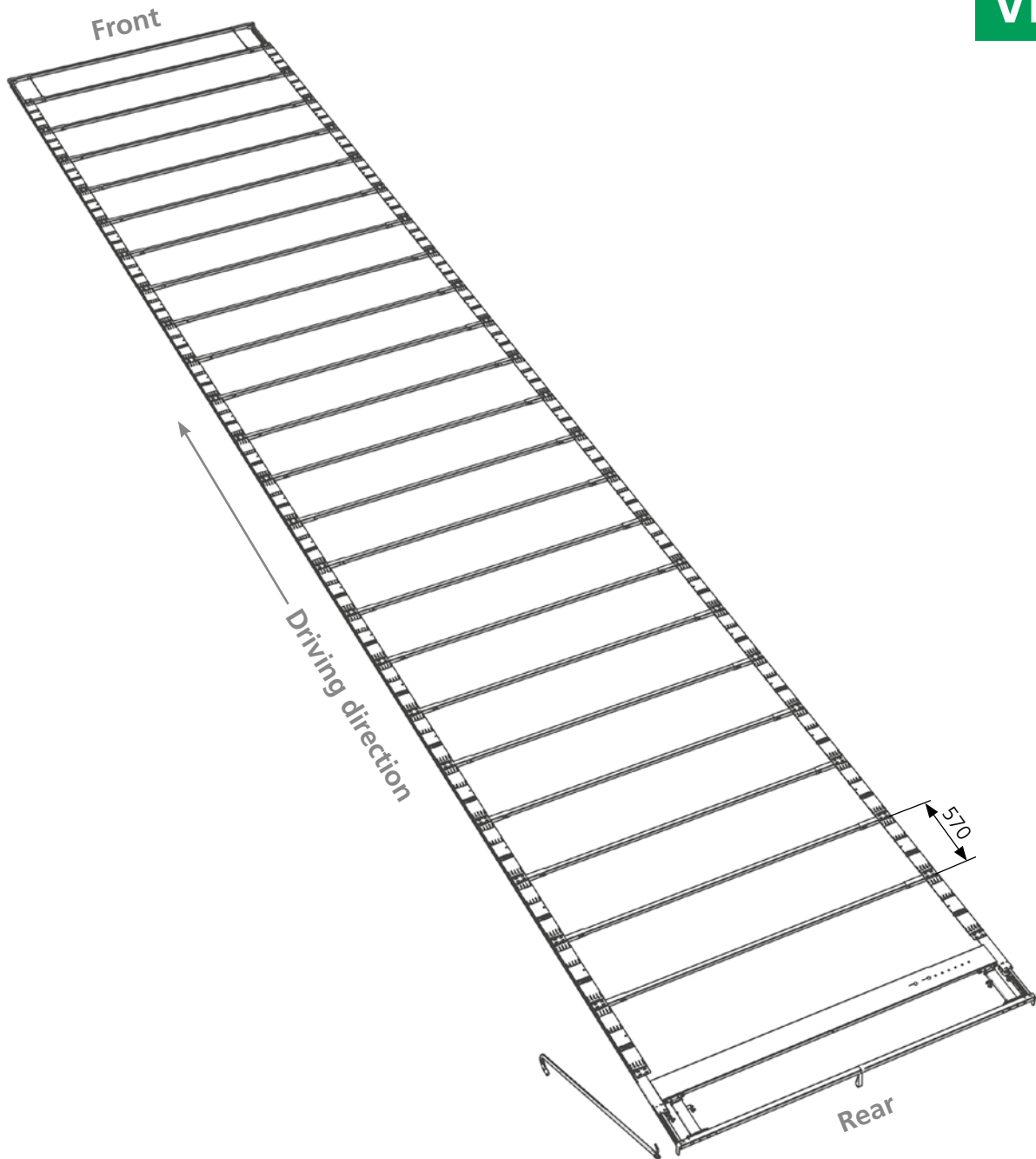


Fixed pillar

Full tarpaulin basic roof system



VP



Full tarpaulin basic roof system

Parts list



Order-No.	Roof length	Number of bows
2978.0000	Standard width 2300 – 2600 mm (different widths on request)	
	Standard without central pillars up to 3500 mm	
VP 3	2410 - 2980	3
VP 4	> 2980 - 3550	4
	Standard with 1 pair of central pillars up to 7000 mm	
VP 5	> 3550 - 4120	5
VP 6	> 4120 - 4690	6
VP 7	> 4690 - 5260	7
VP 8	> 5260 - 5830	8
VP 9	> 5830 - 6400	9
VP 10	> 6400 - 6970	10
	Standard with 2 pairs of central pillars up to 10500 mm	
VP 11	> 6970 - 7540	11
VP 12	> 7540 - 8110	12
VP 13	> 8110 - 8680	13
VP 14	> 8680 - 9250	14
VP 15	> 9250 - 9820	15
VP 16	> 9820 - 10390	16
	Standard with 3 pairs of central pillars up to 14000 mm	
VP 17	> 10390 - 10960	17
VP 18	> 10960 - 11530	18
VP 19	> 11530 - 12100	19
VP 20	> 12100 - 12670	20
VP 21	> 12670 - 13240	21
VP 22	> 13240 - 13810	22
	Standard with 4 pairs of central pillars up to 17500 mm	
VP 23	> 13810 - 14380	23
VP 24	> 14380 - 14950	24
VP 25	> 14950 - 15520	25
VP 26	> 15520 - 16090	26
VP 27	> 16090 - 16660	27
VP 28	> 16660 - 17230	28

Roof running rail / steel:
length 7000 mm

**Includes the following individual components
(in different quantities):**

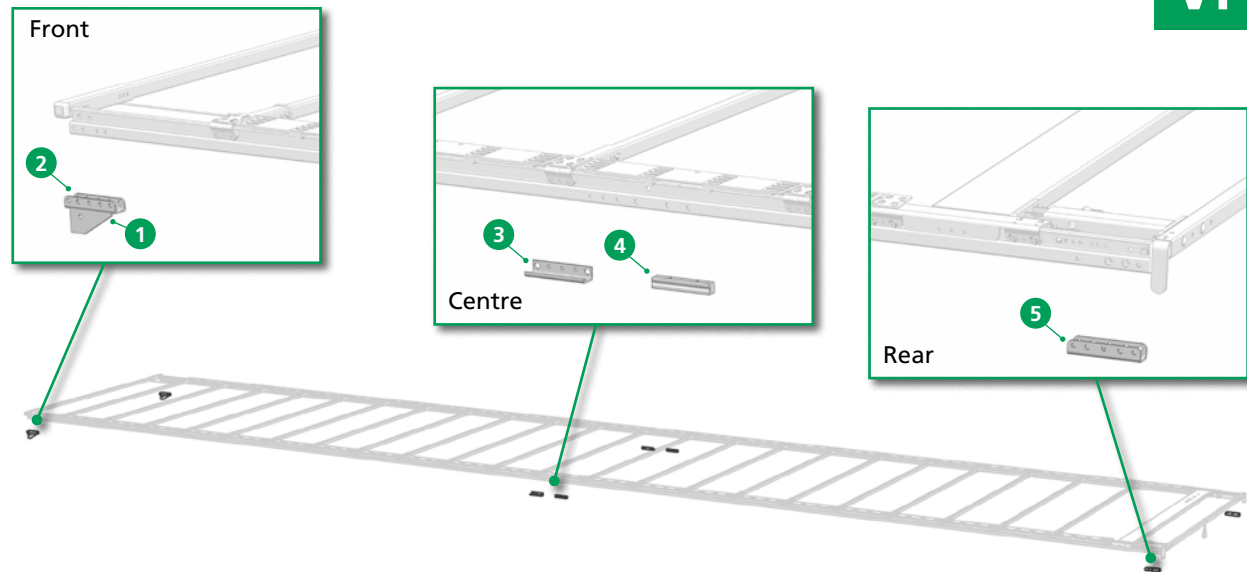
End carriage
Drawbar
Bow with steel roller carriage
Set of ramps front
Set of ramps rear
Joints and bows
End bow with lifting function
Front bow
Safety rope set

Full tarpaulin roof system with assembly parts



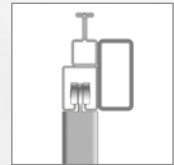
Fixed pillar

VP



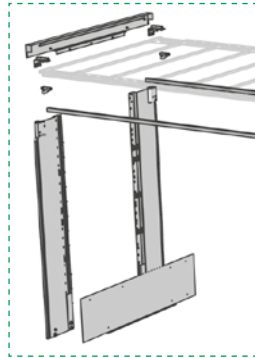
Pos.	Order-No.	Designation
1	37 010 310	Corner plate
2	38 030 640	Support connection
3	38 030 700	Support connection
4	38 030 720	Connection bolt with thread M 10
5	38 032 360	End support connection with bolt

Entire full tarpaulin system with optional accessories

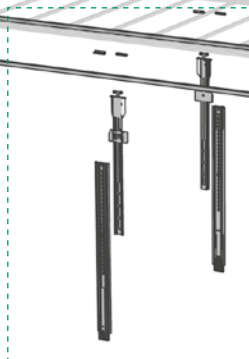


Sliding pillar

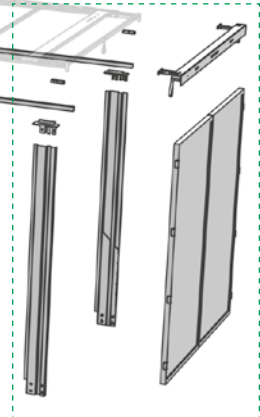
VP



Entire system front
see page 18



Entire system centre
see page 19



Entire system rear
see page 20

Includes the following individual components (in different quantities):

Front frame 2021

Assembly sets

Sliding pillars LP-2

Rear frame 2102

Gantry beam

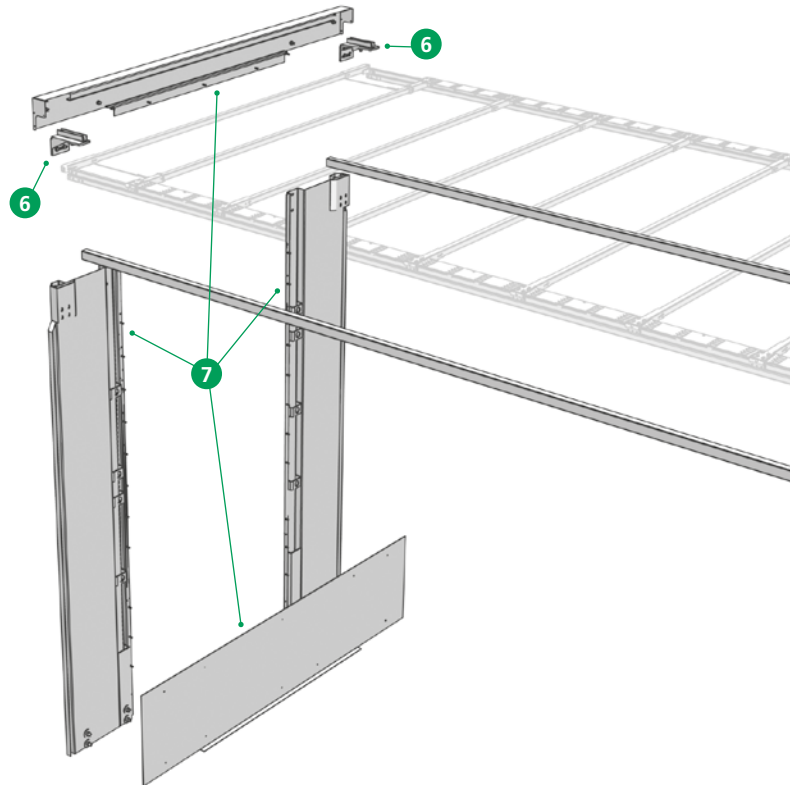
Doors

Steel profile on sliding pillars

Entire full tarpaulin system components front



VP

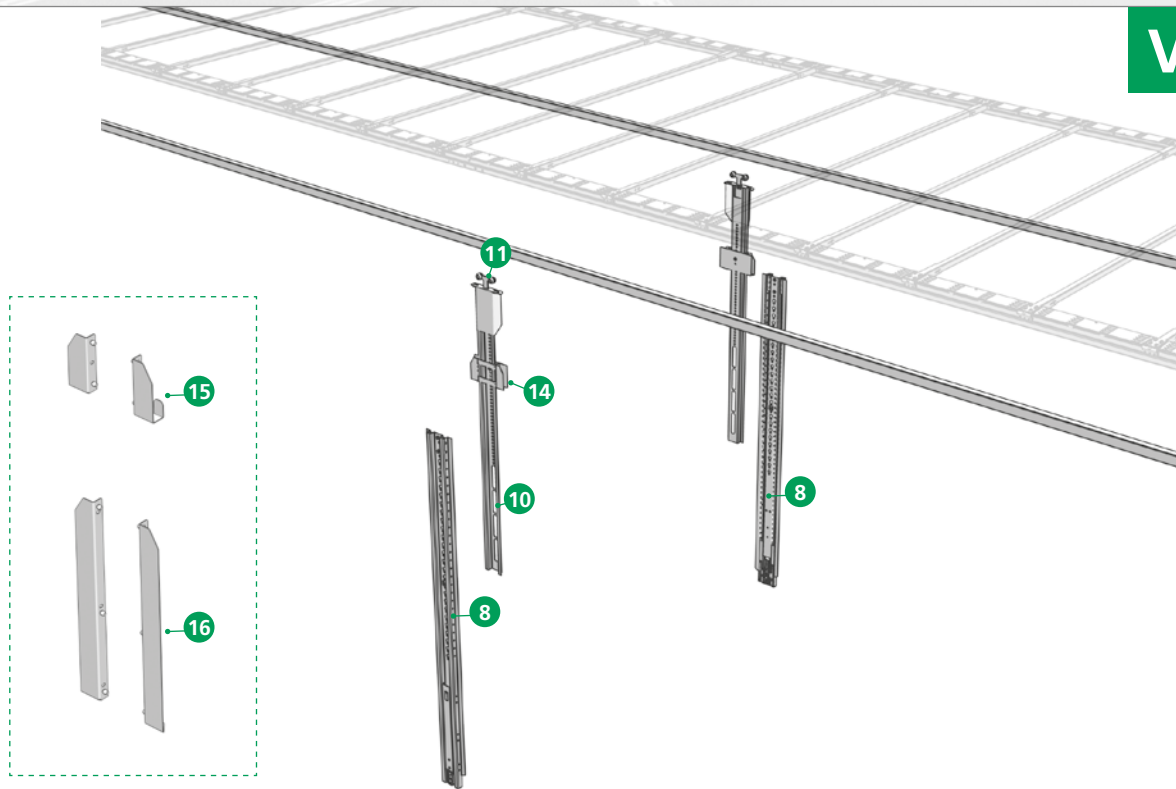


Pos.	Order-No.	Designation
		Accessories for vehicle statics, additional equipment
6	38 084 460	Assembly set front VP
7	38 082 600	Front wall 2021

Entire full tarpaulin system components centre



VP



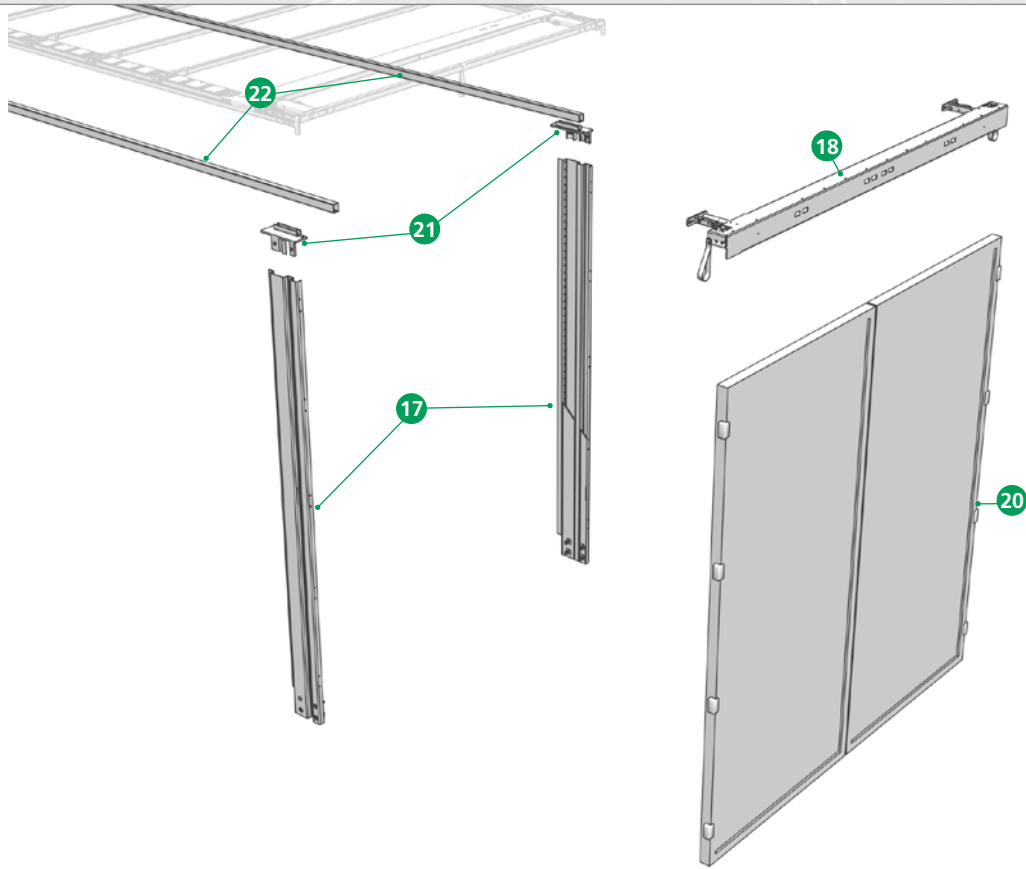
Pos.	Order-No.	Designation
Accessories for vehicle statics, additional equipment		
8	28 020 031	Safe Runge LP-2 standard
9*	28 030 101	Chassis hook LP-2
10	28 010 232	Head end LP-2 1700/0
11	90 000 571	Roller LP-2 50/40
12*	28 010 291	Assembly set head end LP-2
13*	28 010 111	Screw set chassis hook LP-2
14	28 010 602	Insert mounting plate for head end
15	29 002 021	Set of lath pockets short
16	29 002 051	Set of lath pockets long

* No illustration

Entire full tarpaulin system components rear



VP



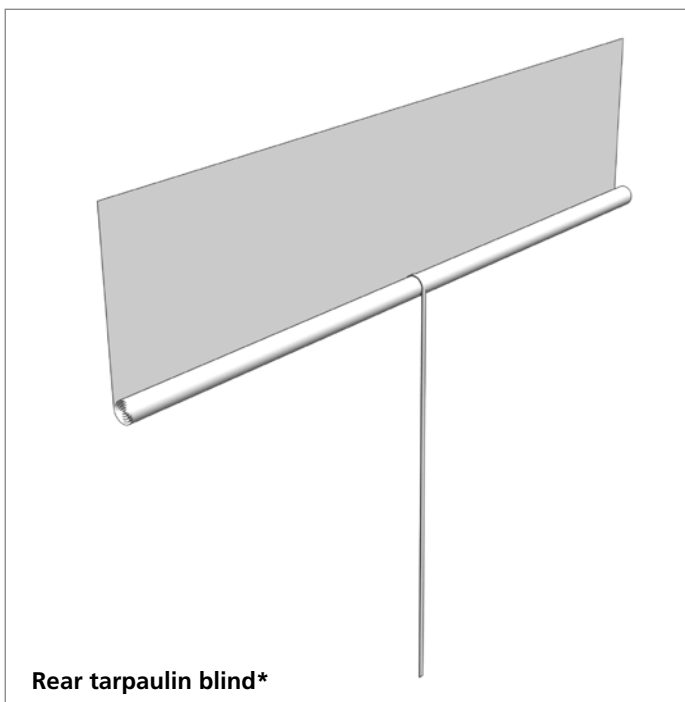
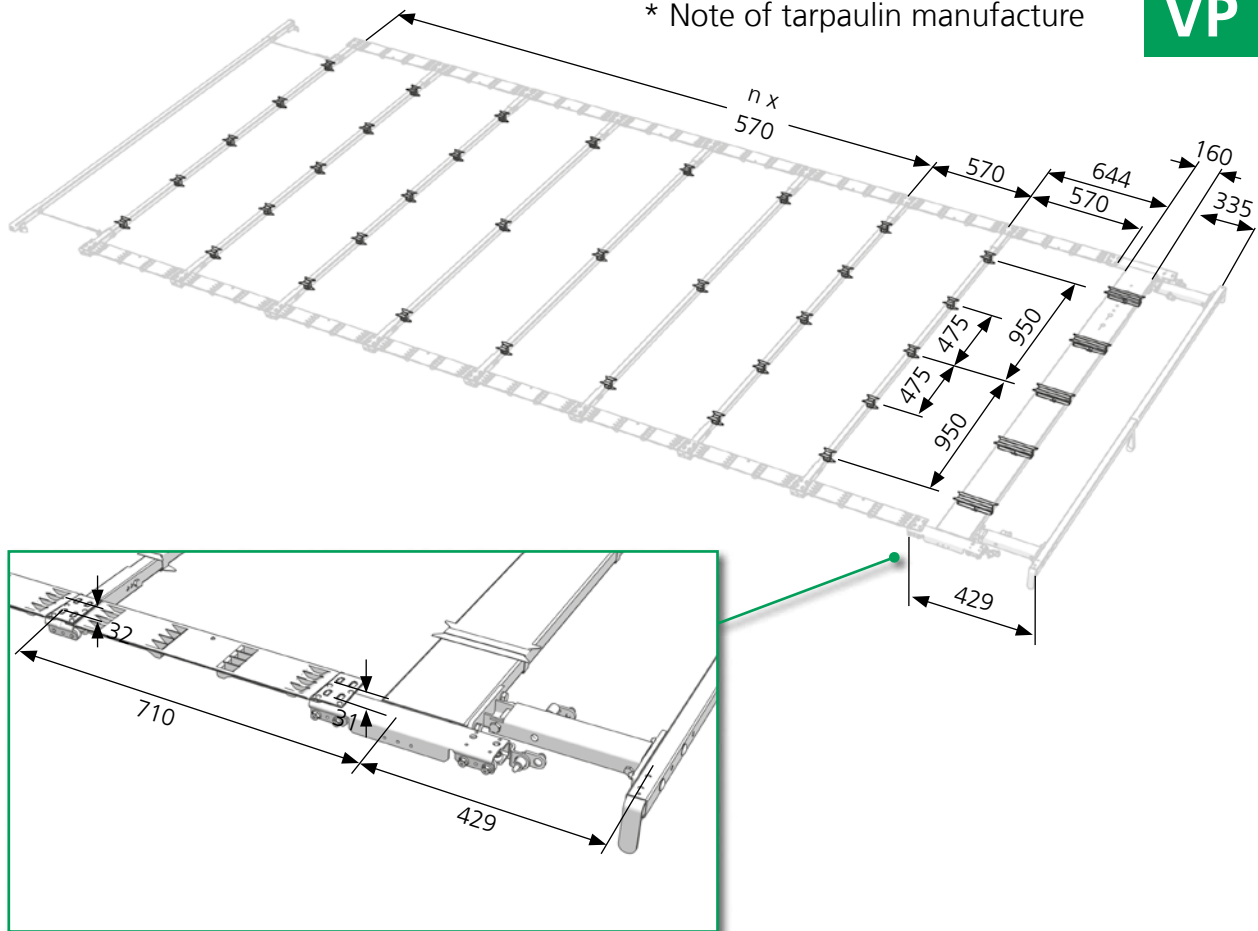
Pos.	Best.-Nr.	Bezeichnung
Accessories for vehicle statics, additional equipment		
17	38 084 470	Rear frame 2102
18	38 036 530	Gantry beam VP-Lite72 2550 x 113
19*	38 084 480	Door set 3 hinges
20	38 084 490	Door set 4 hinges
21	38 084 500	Assembly set rear VP
22	90 000 731	Steel profile sliding pillars 50/40 L= 7800 mm

Full tarpaulin system tarpaulin



VP

* Note of tarpaulin manufacture

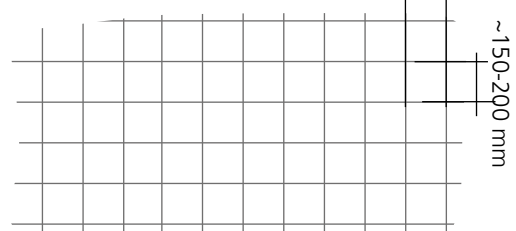


Safety wire netting*

- Steel wire netting with even mesh size
- Welded to inside of tarpaulin with narrow PVC strips
- Functionality and flexibility of tarpaulin remain in place
- Protection from theft of goods, stowaways and secret placement of smuggled goods
- In accordance with frequently expressed requests by clients

Height up to 2 m

~150-200 mm

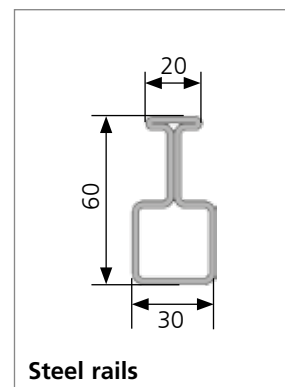
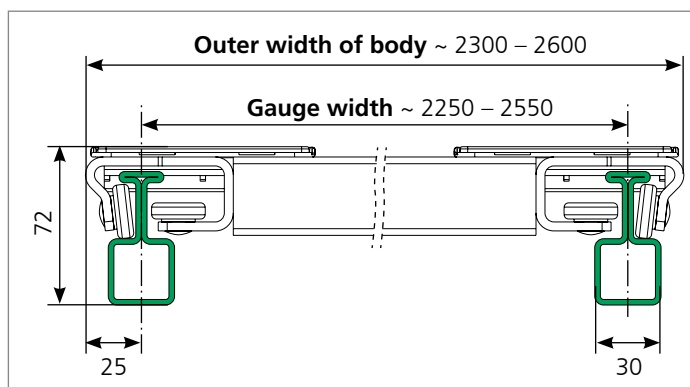
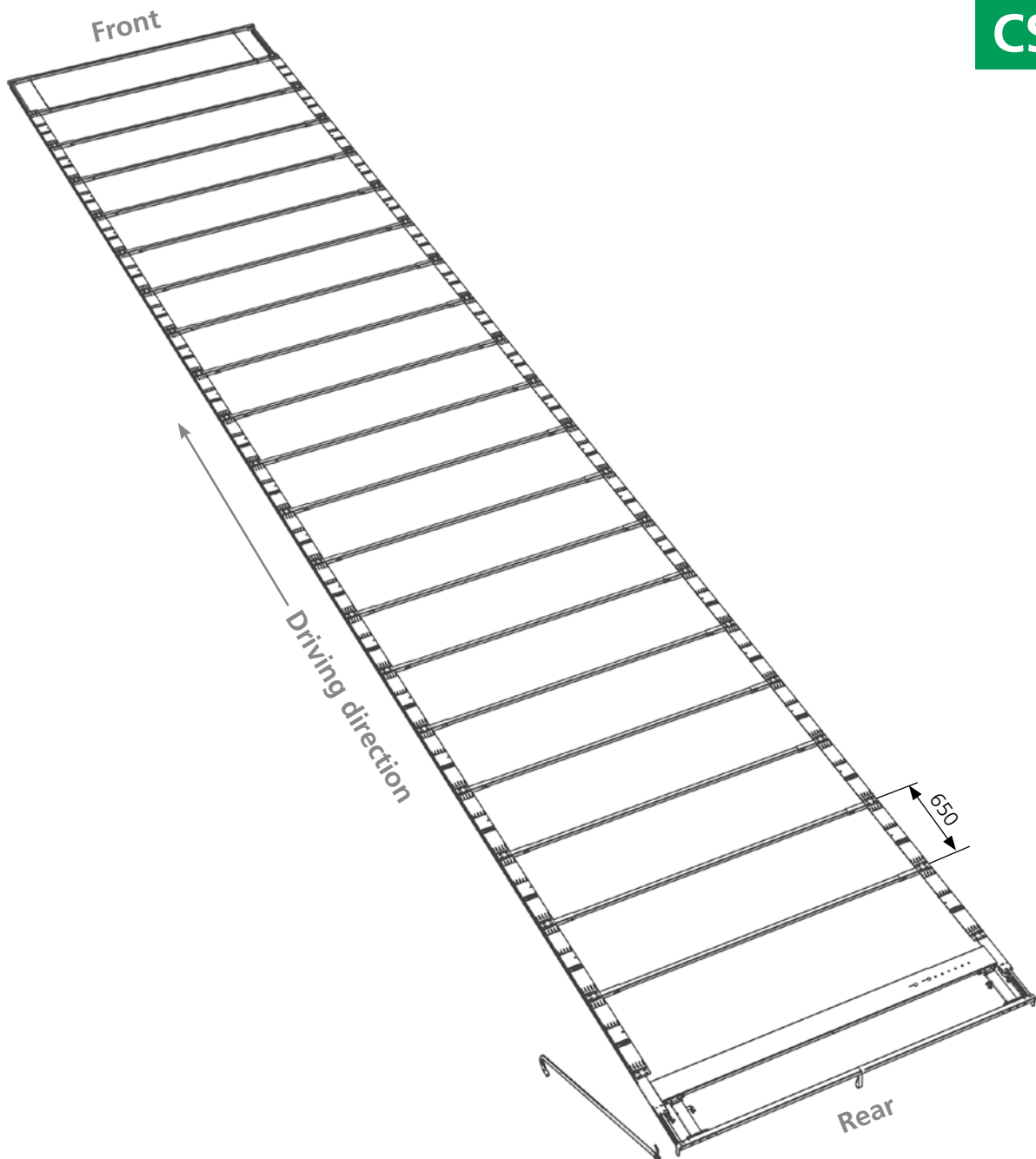


*Not part of the Edscha Trailer Systems delivery program

Basic Curtain sider roof system



CS



Basic Curtain sider roof system

Parts list



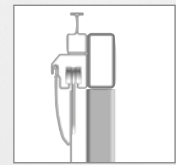
Order-No.	Roof length	Number of bows
2978.0000	Standard width 2300 – 2600 mm (different widths on request)	
	Standard without central pillars up to 3500 mm	
CS 3	2650 - 3300	3
	Standard with 1 pair of central pillars up to 7000 mm	
CS 4	> 3300 - 3950	4
CS 5	> 3950 - 4600	5
CS 6	> 4600 - 5250	6
CS 7	> 5250 - 5900	7
CS 8	> 5900 - 6550	8
	Standard with 2 pairs of central pillars up to 10500 mm	
CS 9	> 6550 - 7200	9
CS 10	> 7200 - 7850	10
CS 11	> 7850 - 8500	11
CS 12	> 8500 - 9150	12
CS13	> 9150 - 9800	13
CS 14	> 9800 - 10450	14
	Standard with 3 pairs of central pillars up to 14000 mm	
CS 15	> 10450 - 11100	15
CS16	> 11100 - 11750	16
CS 17	> 11750 - 12400	17
CS 18	> 12400 - 13050	18
CS 19	> 13050 - 13700	19
	Standard with 4 pairs of central pillars up to 17500 mm	
CS 20	> 13700 - 14350	20
CS21	> 14350 - 15000	21
CS 22	> 15000 - 15650	22
CS 23	> 15650 - 16300	23
CS 24	> 16300 - 16950	24
CS 25	> 16950 - 17600	25

Roof running rail / steel:
length 7000 mm

Includes the following individual components (in different quantities):

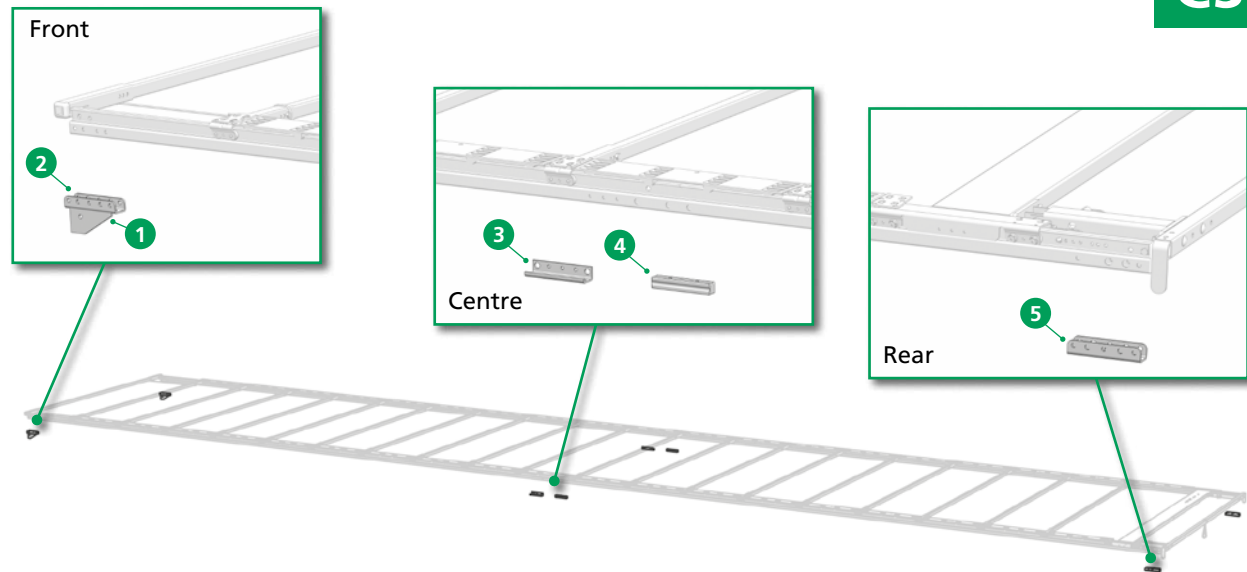
- End carriage
- Drawbar
- Bow with steel roller carriage
- Set of ramps front
- Set of ramps rear
- Joints and bows
- End bow with lifting function
- Front bow
- Safety rope set

Curtain sider roof system with assembly parts



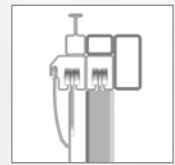
Fixed pillar

CS



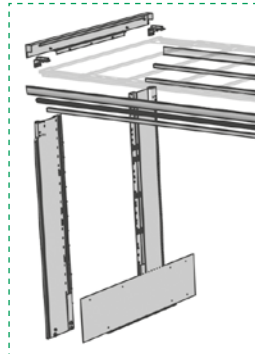
Pos.	Order-No.	Designation
1	37 010 310	Corner plate
2	38 030 640	Support connection front
3	38 030 700	Support connection centre
4	38 030 720	Connection bolt with thread M 10
5	38 032 360	End support connection with bolt

Entire curtain sider system with optional accessories

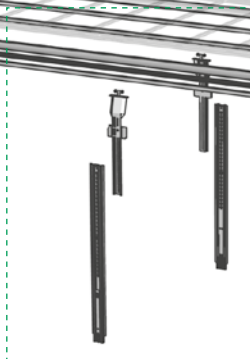


Sliding pillar

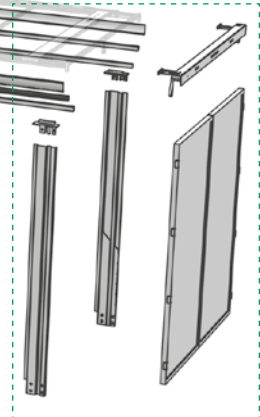
CS



Entire system front
see page 26



Entire system centre
see page 27



Entire system rear
see page 28

Includes the following individual components (in different quantities):

Front frame 2021

Assembly sets

Sliding pillars LP-2

Rear frame 2102

Gantry beam

Doors

Steel profile on sliding pillars

Steel profile CS

Profile seal

Aluminium draw-in tubes

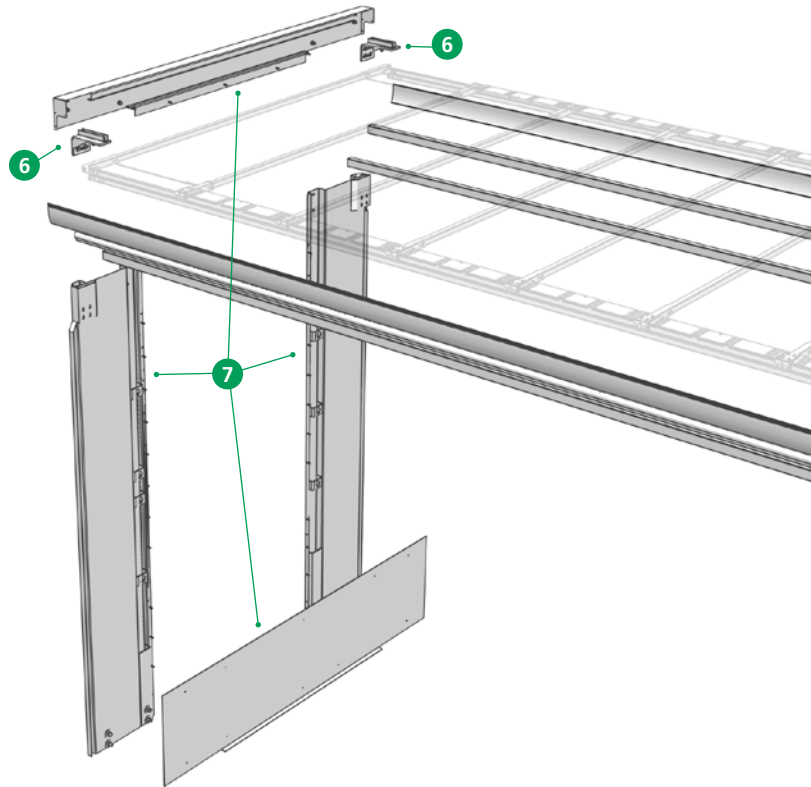
Tensioning ratchets

Draw-in tube adapter

Entire curtain sider system components front



CS

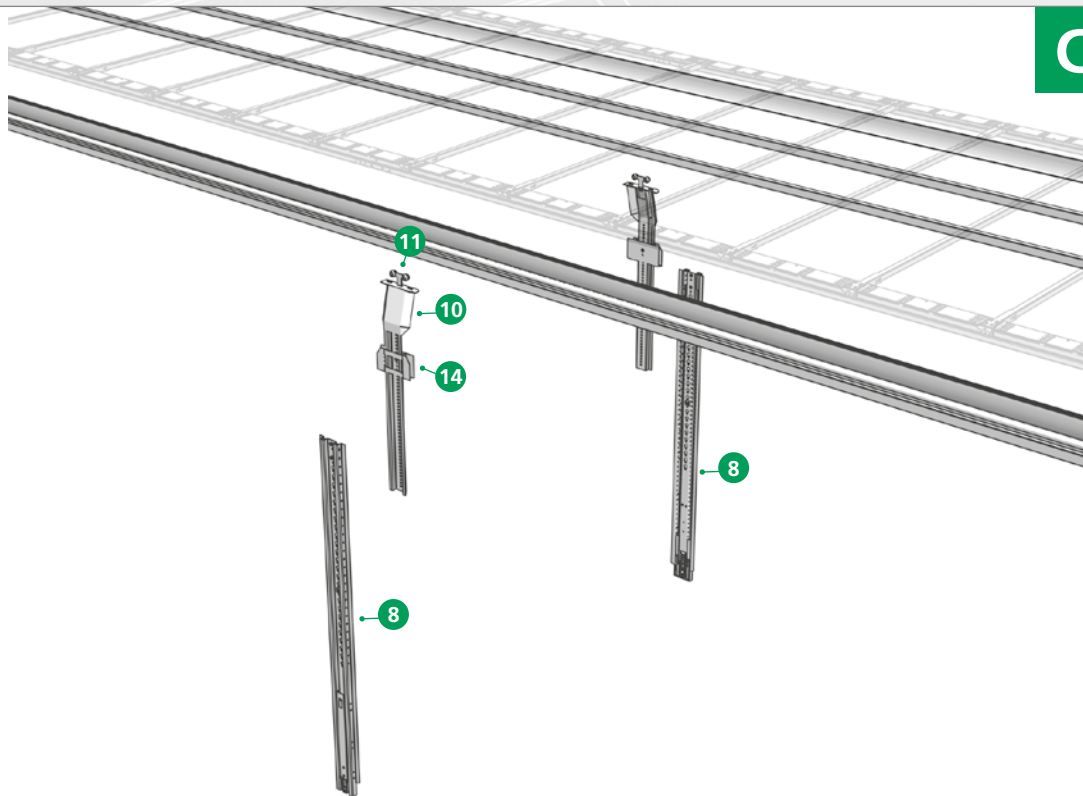


Pos.	Order-No.	Designation
		Accessories for vehicle statics, additional equipment
6	38 081 960	Assembly set front CS
7	38 082 600	Front frame 2021

Entire curtain sider system components centre



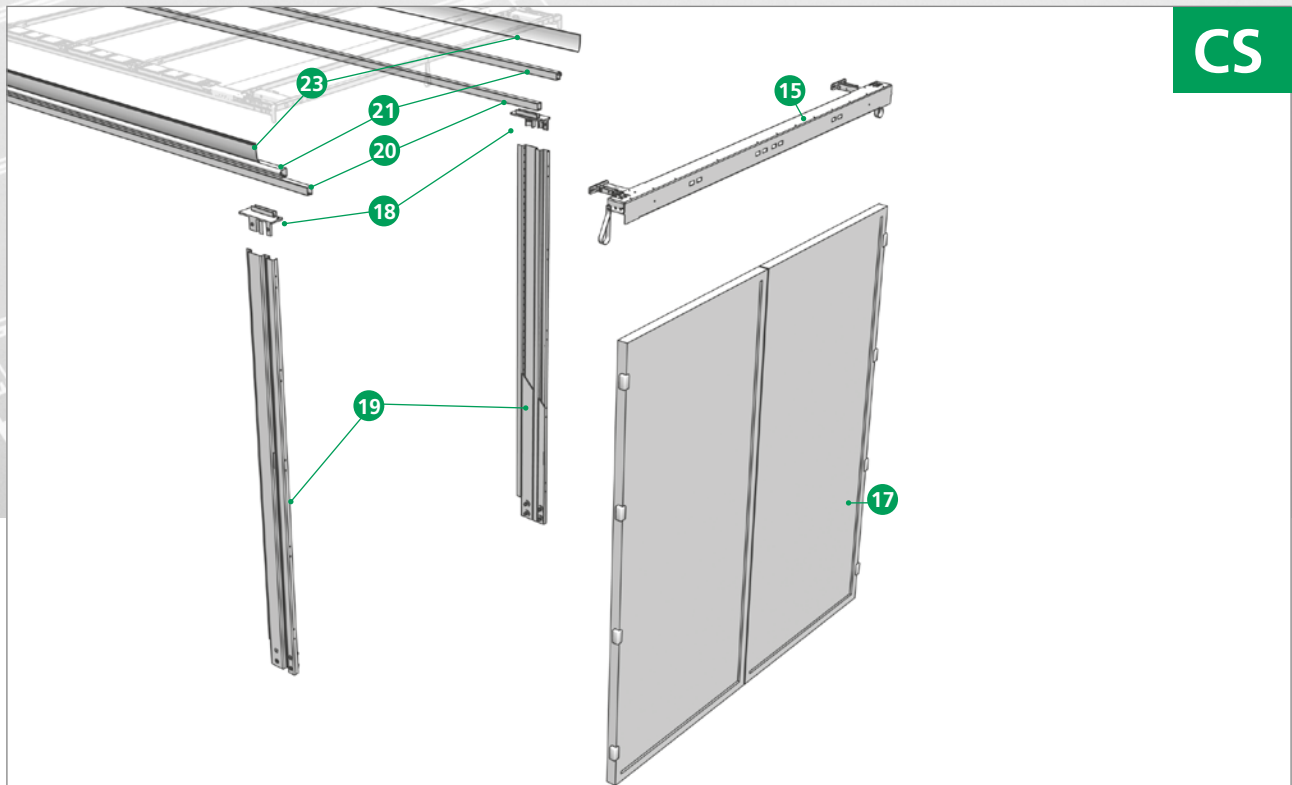
CS



Pos.	Order-No.	Designation
		Accessories for vehicle statics, additional equipment
8	28 020 031	Safe pillar LP-2 standard
9*	28 030 101	Chassis hook LP-2
10	28 010 282	Head end LP-2 1200/45
11	90 000 571	Roller LP-2 50/40
12*	28 010 291	Assembly set head end LP-2
13*	28 010 111	Screw set chassis hook LP-2
14	28 010 602	Insert pocket mounting plate for head end

* No illustration

Entire curtain sider system components rear



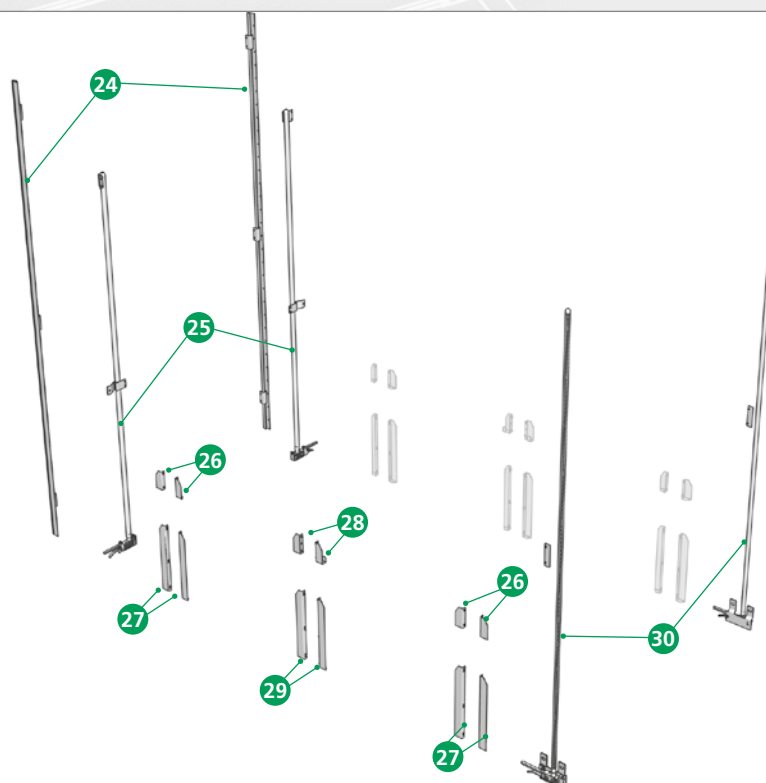
Pos.	Order-No.	Designation
Accessories for vehicle statics, additional equipment		
15	38 036 530	Gantry beam VP-Lite72 2550 x 113
16*	38 084 480	Door set 3 hinges
17	38 084 490	Door set 4 hinges
18	38 081 740	Assembly set rear
19	38 084 470	Rear frame 2102
20	90 000 731	Steel profile sliding pillars 50/40 L=7800 mm
21	90 000 481	Steel profile CS
Accessories for side tarpaulin		
22*	90 000 292	Tarpaulin roller
23	1 007 585	Profile seal 33000 x 120 black

* No illustration

Entire curtain sider system components accessories



CS

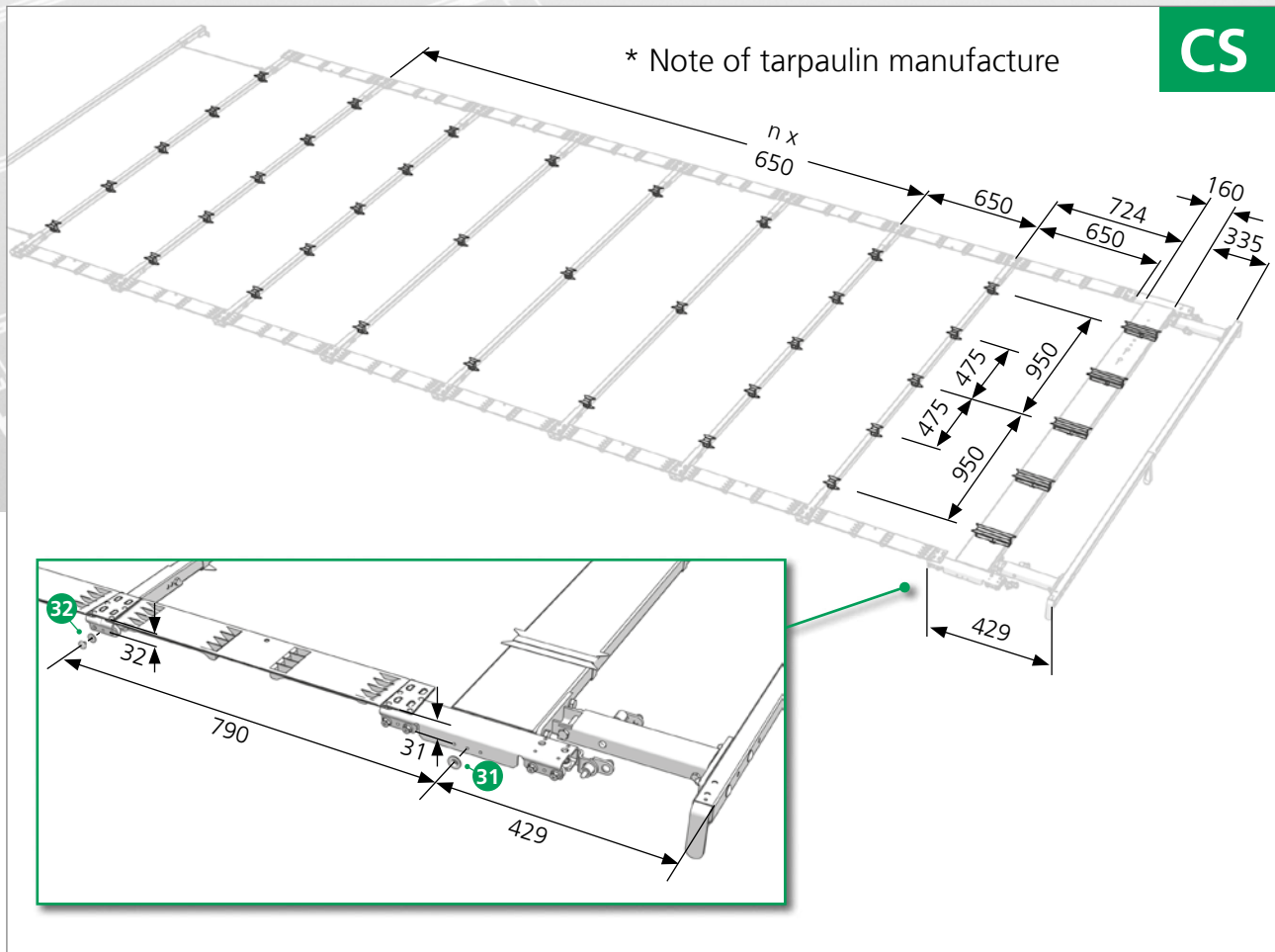


Pos.	Order-No.	Designation
Accessories		
24	38 082 840	Tensioning hook set front 2021
25	38 082 850	Tensioning set with ratchet front 2021
26	38 082 820	Lath pockets short (2021-2102) front
27	38 082 830	Lath pockets long (2021-2102) front
28	29 002 021	Set of lath pockets short
29	29 002 051	Set of lath pockets long
30	38 083 750	Tensioning set 2102 tube with ratchet

Curtain sider system tarpaulin



CS

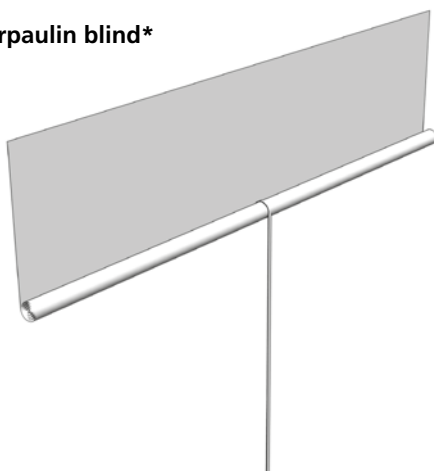


Pos.	Order-No.	Designation
31	63 395	Attachment plate
32	38 070 700	Tarpaulin attachment set (for 25 bows)

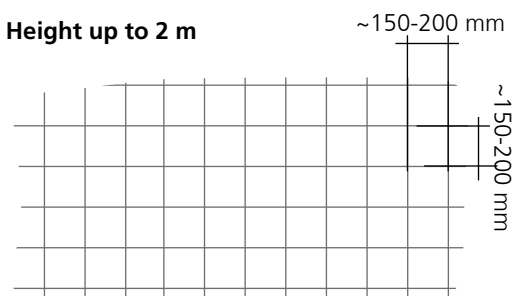
Safety wire netting*

- Steel wire netting with even mesh size
- Welded to inside of tarpaulin with narrow PVC strips
- Functionality and flexibility of tarpaulin remain in place
- Protection from theft of goods, stowaways and secret placement of smuggled goods
- In accordance with frequently expressed requests by clients

Rear tarpaulin blind*



Height up to 2 m



*Not part of the Edscha Trailer Systems delivery program

Notes



Your sales partner in India:

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Das Original

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