



EN
2019 | 03



Product range



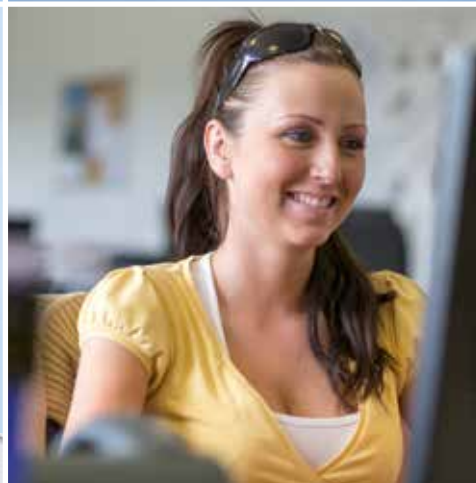
Edscha Trailer Systems

Das Original

Sliding roofs for trucks have had one name since 1969:

The name Edscha Trailer Systems – the inventor and European market leader of the sliding roof for trucks – is synonymous worldwide with technological leadership in the sliding roof industry.





Whether you require a curtain-sider system, full tarpaulin, sliding bow roof or solid wall body – Edscha TS offers optimum solutions for tarpaulin covers for all heavy goods vehicles – and the most cost efficient. In addition to customised product solutions for truck and rail cargo, Edscha TS is the go-to company for unique challenges for any sliding roof system.



As a truly European company, we develop and manufacture all our products in-house at our sites in Moers (D) and Kamenice (CZ). We realise all the processes from the first product idea to prototype construction and series production to delivery, including spare parts delivery.

Decades of engineering, know-how, continuous optimisation, permanent quality assurance and expert customer service are the cornerstones of the Edscha TS quality promise.



The correct choice of body

Roof types	Roof systems/body types			
	CS	VP	SB	FW
Edscha TS Profi	●	●	●	
Edscha TS Hybrid	●			
Edscha TS Standard		●		
Edscha TS Eco	●	●		
Edscha TS Compact	●	●		
Edscha TS Vario	●	●		●*
Edscha TS SB-RailWay			●	
Edscha TS Railway OpenBox				●
Edscha TS TipperRoof				●
Edscha TS OpenBox				●
SESAM Slimliner	●			
SESAM Flatliner	●			

CS = Curtain-sider roof/body
SB = Sliding bow roof/body

VP = Full tarpaulin roof/body
FW = Solid wall body * = in planning

Edscha TS sliding roofs

Europe's market and technology leader, whose inventions established this product segment and gave it its name, offers the ideal tarpaulin roof system for all types of heavy goods vehicles.

All systems are designed for bodies according to EN 12642 (partly also Code XL)

Every Edscha TS sliding roof is a unique item of lasting value with customised fittings, unique production and serial number and guaranteed service. To take advantage of our quick customer support, simply contact our sales office in your region and quote the serial number indicated on the type plate.

Curtain-sider tarpaulin | CS

For vehicles with sliding curtain body

The curtain-sider is an advancement of the closed body. Unlike traditional tail lift vehicles, curtain-siders allow goods to be loaded via forklift from the side, which is a far more efficient method of loading. It also allows bulky goods to be loaded quickly as the curtain can be opened along almost its entire length. As the roof is fixed, the cargo space remains protected against rain. Since 1990, the development of self-supporting sliding roofs has made crane loading possible even with this body type.

Abbreviations:

Edscha Trailer Systems

- 1 CS-Profi
- 2 CS-Hybrid
- 3 CS-ECO
- 4 Compact
- 5 Compact Fix
- 6 CS-VARIO (outside of Europe)

SESAM

- 7 CS-SLIMLINER
- 8 CS-FLATLINER

Road vehicle	Recommendation							
	Edscha Trailer Systems						SESAM	
	1	2	3	4	5	6	7	8
General cargo route	●	●	●			●	●	●
General cargo distribution	●	●		●	●	●		●
Loading from above								
Several times a day	●	●						
Even after standing outdoors	●	●						
Occasionally & dry		●		●			●	
(Almost) never			●	●	●			
Loading from the side								
Exclusively			●	●	●			
Frequently		●		●			●	●
Rare		●		●				
Optional version								
TIR		●	●				●	
XL according to EN 12642	●	●	●				●	●
Intermodal according to EN 283	●	●					●	

Preferred type of load: Module dimensions suitable for stacking



Full tarpaulin roofs | VP

For vehicles with side-boards and tarpaulin body

This type of body was developed at the birth of motorised commercial vehicles. The side-boards and tailgates are designed to protect the load from falling, while the tarpaulin cover protects it against the rain. In general, this type of body allows a high level of flexibility.

This flexibility was significantly increased by Edscha TS' invention of the sliding roof in 1969. Today, this structure provides a much faster and safer loading process as the cargo space can be opened up very quickly by pushing the entire tarpaulin towards the bulkhead.

Abbreviations:

Edscha Trailer Systems

- 9** VP-Profi
- 10** VP-Standard
- 11** VP-ECO
- 12** Compact
- 13** Compact Fix
- 14** VP-VARIO (*outside of Europe*)

Road vehicle	Recommendation					
	Edscha Trailer Systems					
	9	10	11	12	13	14
General cargo route	●	●	●			●
General cargo distribution	●			●	●	●
Loading from above						
Several times a day	●	●				
Even after standing outdoors	●					
Occasionally & dry		●		●		
(Almost) never			●	●	●	
Loading from the side						
Exclusively		●		●	●	
Frequently		●		●		
Rare	●	●		●		
Optional version						
TIR	●	●	●	●		●
Intermodal according to EN 283	●	●	●			

Preferred type of load:

Module dimensions suitable · Non-modular and sharp-edged · Risk of detachment of components



Sliding bow roofs | SB

For vehicles without a body but with tarpaulin cover

The introduction of tensioning ratchets and universal tensioning straps made it possible to do without side-boards and tailgates for certain goods. To protect against the weather, a throw-over tarpaulin was rigged around the entire frame. Frames for supporting tarpaulins had long been in use and served as the basis for the development of a flexible sliding bow body, which allows both fast loading from the side and easy loading by crane. It eliminates the need for the tedious and time-consuming rigging of the tarpaulin. Sliding bow systems are widely used in the railway sector and in many american-style markets.

Road vehicles/Rail vehicles	Recommendation	
	Edscha Trailer Systems	
	15	16
General cargo route	●	●
General cargo distribution	●	
Loading		
From above and from all sides	●	●

Preferred type of load: Bulky general cargo

Abbreviations:

Edscha Trailer Systems

15 SB-Profi

16 SB-RailWay



Solid wall roofs | FW

For vehicles with solid walls

Truck bodies with solid walls are a mandatory requirement for the transport of bulk cargo. This applies regardless of whether the cargo is loaded via a wheel loader from the side via the wall, through a funnel, via a filling tube from above or via a rear door. Also when unloading there are the options to excavate from above, off-load via a rear door, or push or tip out in one or more directions. Over the years, heavy goods vehicles have become increasingly specialised with such options to accommodate various bulk goods and loading conditions.

What they all have in common is the fact that unlike all other truck roofs, the tarpaulin must be designed to be laterally elastic in order to accommodate the shape of the wall for reliable operation under all conditions.

Road vehicles/Rail vehicles	Recommendation			
	Edscha Trailer Systems			
	17	18	19*	20
Bulk cargo route			●	●
Bulk cargo distribution	●	●	●	
Unloading				
Tilting	●			
Pushing out and other methods		●	●	●
Loading from above				
Exclusively via funnels		●	●	●
Also via scoop via side wall	●			
Loading from the side				
Never	●	●	●	●

Abbreviations:

Edscha Trailer Systems

17 TipperRoof

18 OpenBox

19 VARIO OpenBox*
(outside of Europe)

20 RailWay OpenBox

* = in preparation



Curtain-sider roofs

For vehicles with sliding curtain body

The curtain-sider is designed for particularly efficient loading of palletised goods from the side, preferably as a full load. The original Edscha TS roof makes the decisive difference in the long term.

- Extensive market experience
- Stable longitudinal rail construction
- Smooth running
- Low wear
- Long-lasting XL load securing
- Low total cost



Opening of the roof using the **CS-Hybrid** as an example

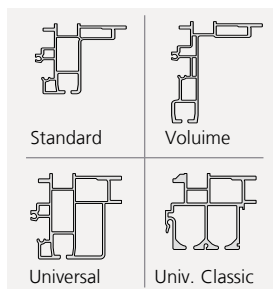


Opening the side curtains using the **CS-Hybrid** as an example

CS-Hybrid

Technical sophistication, ease of use and high stability are the most important factors in the sliding roof sector. With the introduction of the **CS-Hybrid** sliding roof, Edscha Trailer Systems is setting new standards through the use of a smart combination of plastic and steel as well as intelligent joining technologies for robust, durable tarpaulin roof systems.

- Intelligent material mix through reinforced steel/plastic hybrid construction
- New robust joints with optimised folding kinematics and honeycomb structure incl. grommets for expander rope
- External, coated and low-friction rollers



Robust and stable roller system in HYBRID construction

More info on the CS-Hybrid at www.EdschaTS.com



XL

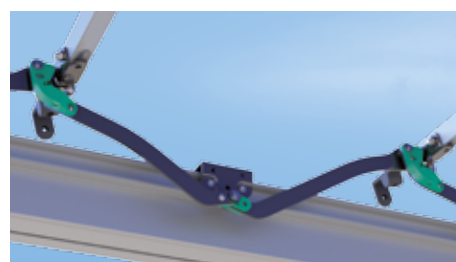
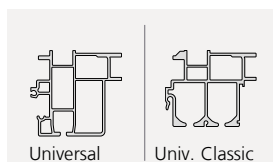
DB

TIR

CS-Profi

The new **CS-Profi** sliding roof is the result of a detailed, meticulously executed product optimisation to allow loading from above on a daily basis, including in shifts. The massive steel joints and the rising crossbeams guarantee protection of the tarpaulin even in extreme loading situations or weather conditions.

- The systems offer optimal kinematics and functionality, even under extreme conditions
- Adjustable steel joints and rising roof



High-quality steel joints, combined with plastic elements, for maintenance-free operation, ease of use and weight reduction

More info on the CS-Profi at www.EdschaTS.com



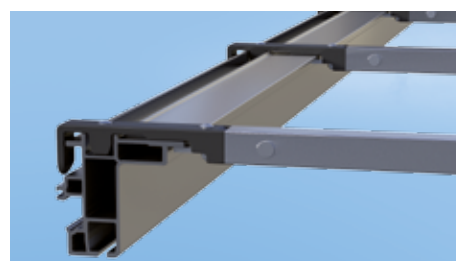
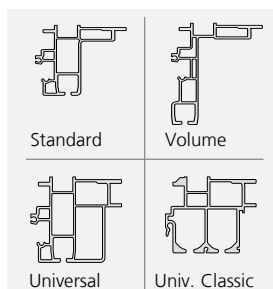
XL

DB

CS-ECO

The Edscha TS **CS-ECO** offers a cost-effective way to fit a curtain-sider body with a light, solid tarpaulin roof in standard Edscha TS quality when loading from above is not required.

- Low weight
- Simple, fast installation



Easy installation by sliding the bows

More info on the CS-ECO at www.EdschaTS.com



XL

TIR



Full tarpaulin roofs

For vehicles with side walls and tarpaulin body

The Edscha TS VP full tarpaulin roof is the ideal choice for all non-standardised, sharp-edged loads or risk loads prone to slippage or detachment of components. Also in cases where efficient sealing is required.

- Robust and easily demountable rail structure
- Smooth-running function
- Excellent durability
- Low total cost



Opening procedure using the VP Standard as an example

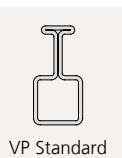
VP-Standard

The new **VP-Standard** full tarpaulin roof features robust, weight-saving plastic roller carriages and joints combined with steel bows and the proven demountable steel rail frame segments. The system offers sophisticated kinematics in a minimised installation space, thus ensuring more loading space and requiring low operating forces without compromising the assembly and durability.

- Robust and weight-saving plastic roller carriages and joints with steel bows and the proven, demountable steel rail frame segment system
- Robust joints with optimised folding kinematics
- External, coated low-friction rollers



Robust joints with optimised folding kinematics



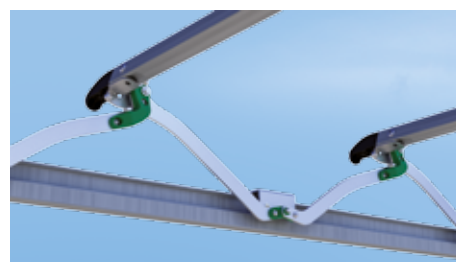
More info on
the VP-Standard at
www.EdschaTS.com



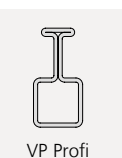
VP-Profi

The new **VP-Profi** full tarpaulin roof is the direct "descendant" of the original invention and a true all-rounder. This product gave rise to the generic term "sliding roof".

- Adjustable steel joints and rising roof bow
- Special tarpaulin-friendly bow ends
- The demountable steel rail frame allows a barrier-free loading area



Plastic elements provide maintenance-freeness,
ease of use and weight reduction



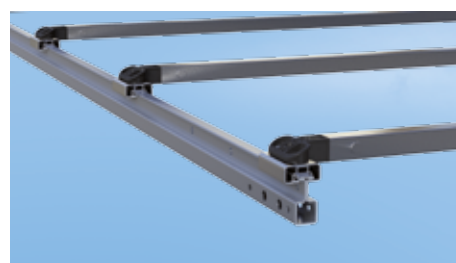
More info on the VP-Profi
at www.EdschaTS.com



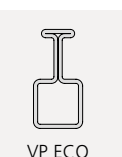
VP-ECO

The Edscha TS **VP-ECO** is a cost-effective option for a full tarpaulin body with a light, solid tarpaulin roof. It features the standard Edscha TS quality and is ideal for conditions that do not require the full tarpaulin to be moved and where loading and unloading takes place via the rear portal or via the side with the tarpaulin folded up.

- Intelligent material mix with reinforced metal/plastic construction
- Demountable steel rail frame provides a barrier-free loading area.



Easy installation by sliding the bows



More info on the VP-ECO at
www.EdschaTS.com





Tarpaulin roof for distribution vehicles

The **Compact** product line is Edscha TS' response to market requirements to provide smaller vehicle bodies (up to 8 m long) with customised, reliable roof solutions. This new development features a new, slim, extremely lightweight yet torsion-resistant aluminium profile combined with proven roller carriages made of modern plastics, durable steel rollers and function-optimised plastic joints. The technologies used are based on long-established Edscha TS product innovations.

The new **Compact** product line is available both as a classic sliding roof and in a fixed roof version and is individually adaptable to the requirements of the vehicle body.



Compact

Compact

More info on the Compact
at www.EdschaTS.com



Compact
Sliding roof Curtain-sider/Full tarpaulin



Compact
Fixed roof

Assembly components



Semi-automatic swinging tail wing

The fast and frequent opening of the cargo hold is a considerable time and cost factor for local distribution vehicles, small deliveries 'free to kerbside' and all other short distance distribution services with many loading stations where the driver is responsible for loading and unloading.

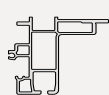
The **TailWing** by Edscha Trailer Systems is a tailgate for sliding roofs that makes it easier, safer, faster and more convenient to open the entire tailgate area.



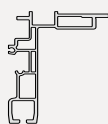
Robust joint, bearing-friendly



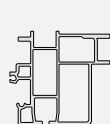
TailWing is available for all **current curtain-sider, full tarpaulin and compact** roofs



Standard



Volume



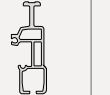
Universal



Univ. Classic



Steel (VP)



Compact

TailWing

More info on the TailWing at www.EdschaTS.com



DrySystem

Pneumatic drainage system

Water, snow and ice are undesired and often dangerous elements that accumulate on the roof tarpaulin of trucks. The **DrySystem** by Edscha Trailer Systems provides an intelligent drainage system for sliding roofs that prevents the collection of large quantities of water and therefore fights ice formation. As a result, down times, vehicle or load damage and the resulting costs are minimised, while the service life and durability of the sliding roof are maximised.

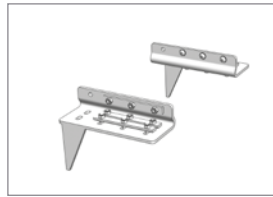


More info on the DrySystem at www.EdschaTS.com

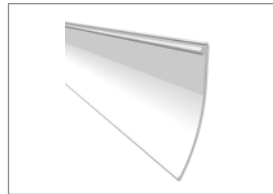


Assembly components

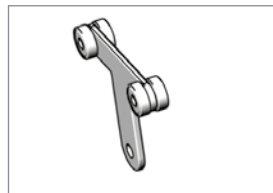
Flexibility is one of the outstanding features of Edscha TS products. Individual assembly components for curtain-sider, full tarpaulin and compact roofs with proven Edscha TS quality are suitable for all bodies with standard dimensions – for trucks, semi-trailers or swap trailers.



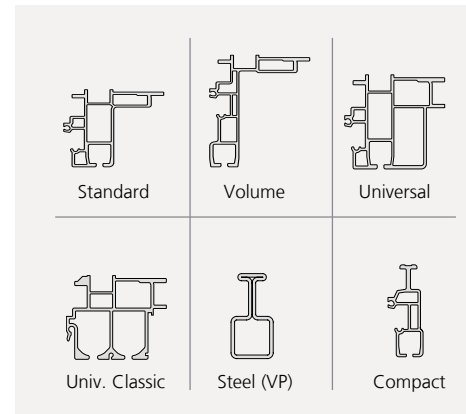
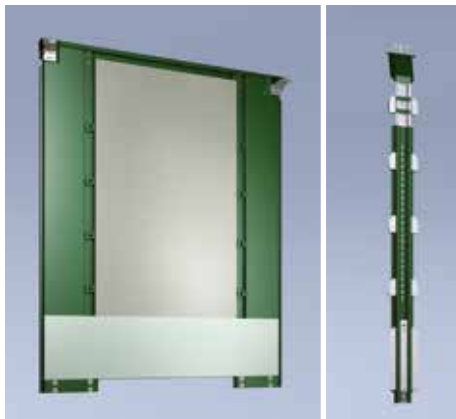
Assembly kits



Profile seals



Stanchion roller carrier



XL

More info on
assembly components at
www.EdschaTS.com



Side curtain accessories

In the past, replacing modern, highly resilient tarpaulin rollers could only be achieved with considerable time and cost and involved opening, resealing and sewing of the straps (connection to the curtain at the upper end of the reinforcing straps).

Our patent pending tarpaulin rollers eliminate this common problem by enabling easy and safe replacement of individual rollers, significantly reducing the cost of any potential repair.



Side tarpaulin roller SPR-4

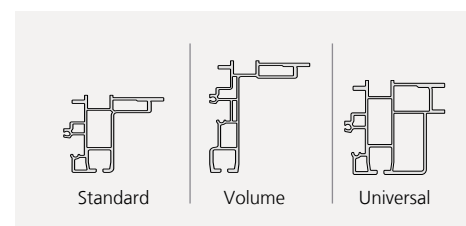
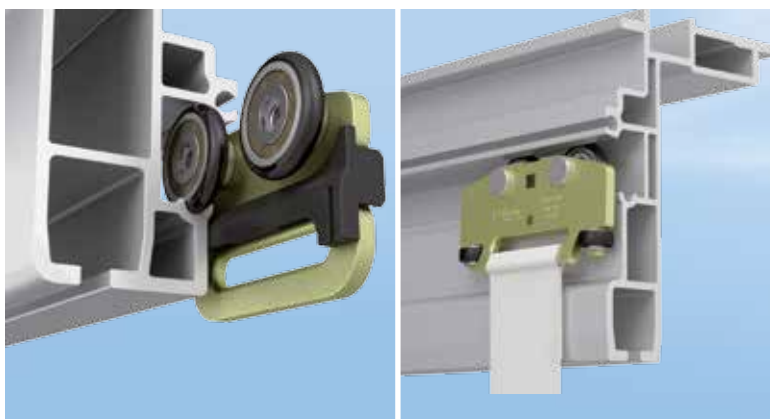


Side tarpaulin roller

XL

DB

TIR



More info on side
curtain accessories
www.EdschaTS.com



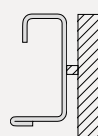
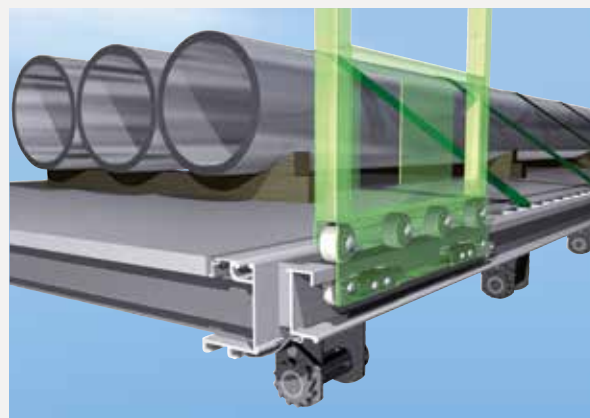


Sliding bow roof

For vehicles without a body with tarpaulin cover

The Edscha TS **SB-Profi** allows an individual to open up the entire cargo space from the ground within seconds. The patented product with tarpaulin-lifting transverse connections enables quick loading from the side and can be optionally equipped with travelling container doors.

- Operation from the ground at the side
- Modular design for easy realisation of different dimensions
- Robust steel rail system with easily replaceable segments
- Robust locking system with secure sealing



SB-Profi

SB-Profi

More info on the SB-Profi at www.EdschaTS.com



SB-Profi
Tarpaulin, open



SB-Profi
Tarpaulin, open (middle position)



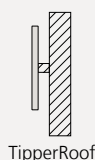
Solid wall roofs

TipperRoof

Sliding bow roof for tipper

The launch of the **TipperRoof** brings to the market a roof for dumper trucks with anticipated future legal and safety standards that are optimally integrated and optimised into existing workflows. The Edscha TS **TipperRoof** reduces loading and tipping times, offers lower fuel consumption than competitor systems and remains maintenance-friendly and low wear due to the demountable rail frame with roller carriage. It allows the driver to carry out all the necessary work steps safely on his or her own from the ground while maintaining the highest safety standards. This makes the **TipperRoof** the ideal tarpaulin roof for all dumper trucks.

The ductility of the tipper is up to ± 50 mm in width



TipperRoof

More info on
the TipperRoof at
www.EdschaTS.com



TipperRoof
Opening procedure



TipperRoof
Open tipping



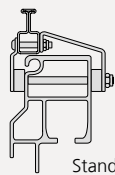
TipperRoof
Closed tipping

OpenBox

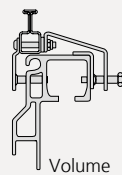
The new Edscha TS OpenBox roof was developed primarily for sliding floor trailers but is also ideal for any other application in which the solid walls need to be as high as possible for maximum loading capacity.

At the heart of the system is the ingenious, patent pending „floating“ mount of the proven interchangeable steel rail system, which can easily bridge the approx. ± 30 mm bulging or lateral deformation of the walls, while providing optimum sealing. Furthermore, as the TipperRoof has shown, having a closed roof during empty runs achieves significant savings on diesel fuel!

The ductility of the tipper is up to ± 30 mm in width



Standard



Volume



More info on
the OpenBox at
www.EdschaTS.com



Electric drive

Edscha TS E-Drive



Operation from the vehicle



Operation from smartphone

The **Edscha TS E-Drive** is controlled via a switch on the trailer or via our app for Android smartphones. A connection for an external switch and CAN bus is also integrated. Its low current consumption ($<20A$ at $24V$) makes the **Edscha TS E-Drive** unique on the market and it is the first to allow connection to an existing on-board network without additional wiring to the towing vehicle. This leaves enough energy for an optional work light connection. The drive is achieved via an adjustable capstan winch and is decoupled from the tarpaulin function. As a result, the system is safe at all times, works almost wear-free and, in the event the need arises, the manual emergency function is easy to use. The patent pending, modular concept developed with the TipperRoof can be adapted to fit different bodies. A control system for use with hydraulic tailgates is provided. Versions for other roof types are planned for the future.



Operation from driver's cab

More info on
the Electric drive at
www.EdschaTS.com



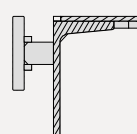


Systems for rail vehicles

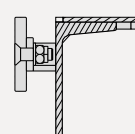
RailWay SB

Sliding bow roofs for freight cars

Edscha TS sliding bow roofs for freight cars are known for their optimised, safe loading and unloading features and are the product of many years of development of customer-oriented roof systems for the commercial vehicle sector. For example, from the system formerly known as the DEBACH VIT system. This system incorporates highly functional, patented freight car tarpaulins – a system that has delivered unparalleled efficiency and reliability in goods transport for more than 40 years. At Edscha TS, the customer's wish is always paramount. This is reflected by the numerous upgrades produced over the years that have steadily strengthened and expanded our worldwide leading position in the market. Edscha TS now offers four versions of tarpaulin roof for freight cars.



Railway SB
welded

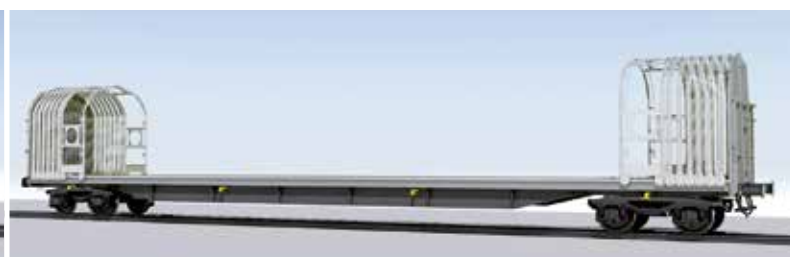


Railway SB
screwed

More info on Railway SB at
www.EdschaTS.com



Railway SB · Example: Shimmns
roof, opened



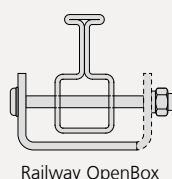
Railway SB · Example: Rils
version for long goods, opened (on both sides)

RailWay OpenBox

Until now you had to choose between an Ea(n/mn)os (E-wagon) without cover with loose tarpaulin, which if required had to be professionally secured by risky climbing, time-consuming lashing by hand and inspection each time, or use a Ta(m)ns car with a rigid tarpaulin or bulky hinged cover, which required a significantly reduced payload.

Thanks to the new **RailWay OpenBox** tarpaulin, a patent pending innovation from Edscha TS, which weighs only approx. 300 kg (for 10 m length), every E-wagon can easily and safely be opened by side operation from the ground in no time. The fitted, floating rail mounting allows for easy parts replacement and for ductility of up to 60 mm.

The tarpaulin roof has been designed according to the criteria for combined transport pursuant to EN 283/UIC 592 and has passed the static tests for tunnel interchange traffic. The TÜV confirmed that the classification remains as an E-wagon with retrofitted roof.



Railway OpenBox



Example: Eanos

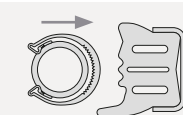
More info about
solid walls at
www.EdschaTS.com



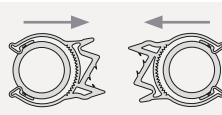
Edscha TS sealing systems

The new Edscha TS sealing system for original and retrofitting on all standard roofed cars (Shimmns) solves several tasks simultaneously.

The seal ensures excellent sealing even in a heavily used construction environment, and features long-lasting edge protection during loading, flexible rubber, universally fitting and easy mounting. It is patented and has already proven its value on several projects.



Roller carriage to wall



Roller carriage to roller
carriage centre



More info on
sealing systems at
www.EdschaTS.com



Replacement parts for freight wagons

Freight cars are designed for longevity and usually provide at least 36 years of service. Easy maintenance through the replacement of wearing parts and damaged components is therefore essential.

Edscha TS now offers a complete range with transparent pricing for all known Shimmns units that were ever built.

The products on offer include both standardised components as well as individually customised parts.



More info on replacement
parts for freight cars at
www.EdschaTS.com





CURTAIN-SIDER ROOFS

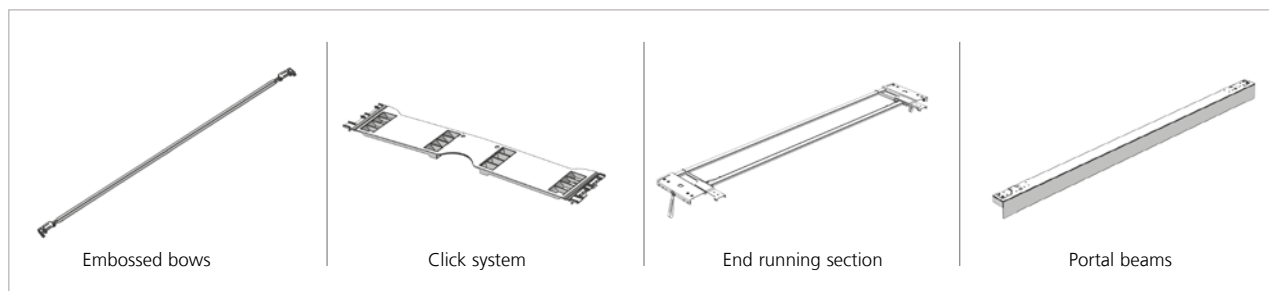
SESAM is the smart secondary brand from European Trailer Systems. It offers a wide range of quality components for easy, standard European curtain-sider bodies in particularly price-driven market environments and with less customisation.

SESAM is the inventor of folding plate tarpaulin featuring a quick click system and top delivery performance. Sesam has thus perfected the processing of orders comprising large packaging units by introducing folding curtains to flexible vehicle manufacturers.



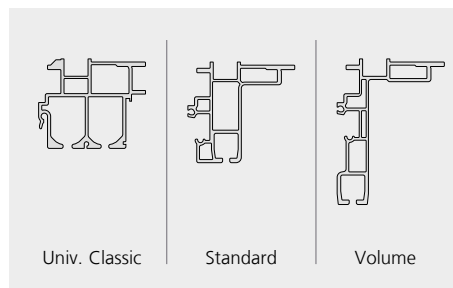
Pallet goods / Bulk goods

CS-SLIMLINER



SESAM CS-SLIMLINER

- Cost-effective, light and stable
- Meets all conventional standards
- Optimum durability
- Interfaces compatible with the latest generation
- Proven smooth running and easy to service



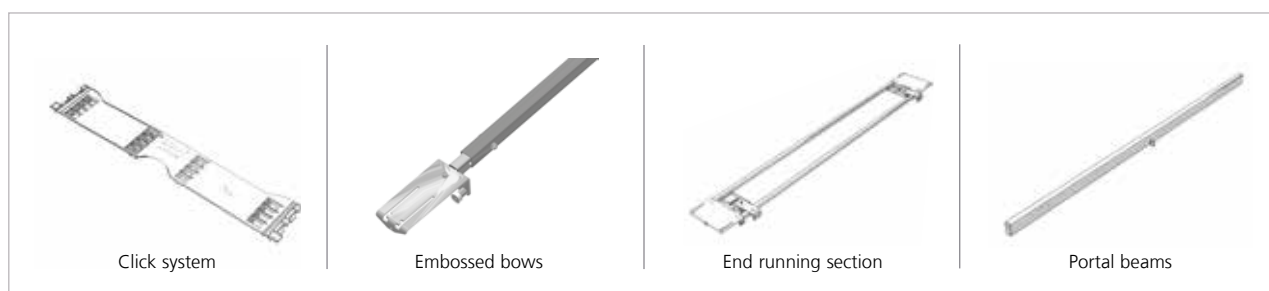
XL

TIR

More info on
the CS-SLIMLINER
www.EdschaTS.com



CS-FLATLINER



SESAM CS-FLATLINER

- Features like Slimliner but applied to the proven Flatliner longitudinal rail
- This carrier is uniquely simple and functional
- The concept allows an optimal loading height from the side
- Fixed roof version Flatliner Fix also available



More info on
the CS-FLATLINER at
www.EdschaTS.com





VARIO - Non-European products



Full tarpaulin roof VARIO-VP



Curtain-sider roof VARIO-CS



Rapid economic development and the associated expansion of infrastructure have led to a steady increase in transport growth. This enormous logistical challenge has to date primarily been met by creativity and the strong commitment of the people working in the industry.

The increasing demand for even greater transport capacity, the increasing quality of freight goods and the associated increasing demand for safety, productivity and speed of freight delivery have led to ever-rising standards. Edscha Trailer Systems, Europe's market and technology leader for sliding roofs for trucks, offers the ideal tarpaulin roof system for transport vehicles.

→ The Edscha TS VARIO system allows direct loading with forklift and crane.

Edscha Trailer Systems stands for quality, flexibility and efficiency!

- High and increasing cargo traffic leads to increasing demands on technology and logistics
- Higher prices and quality of the load lead to increasing demands
- International logistics standards are leading to new challenges in freight transport



Body components range



VARIO-VP – extremely flexible to use

The Edscha TS sliding roof assembly components for the VP system allows maximum flexibility when designing new and existing vehicles. The selection of the body components is determined by the individual vehicle requirements, the desired range of functions and the type of base vehicle. The high variability of the VP system allows a local vehicle manufacturer to build a transport vehicle that complies with international standards from almost any base vehicle.

Edscha TS offers professional advice on site from German engineers with decades of experience. There are only a few parameters to consider when planning the body: the body gauge width is the most important value besides the length, width and height (= loading volume) of the base vehicle. This value is the average distance between the system running rails along which all moving roof and side tarpaulins are moved. The value is proven internationally and can be easily implemented



Sliding pillar



Fixed pillar

in most cases with Edscha TS VP full tarpaulin system components, in new bodies and in extension of flatbed vehicles.

More info on the VARIO-VP at
www.EdschaTS.com



VARIO-CS – especially suitable for palletised cargo

The Edscha TS sliding roof bodies in the CS system offer the greatest possible adaptability when designing bodies for new and existing vehicles. The choice of system components is determined by the industry (e.g. consumer goods and industrial production, automotive, steel products, building materials, etc.), according to the individual transportation requirements, desired functionality (e.g. sliding columns, fixed columns, rear doors, tailgate, etc.) and the type of base vehicle. The highly variable CS System bodies from Edscha TS enable the vehicle manufacturer to create a completely individual transport vehicle that complies with international standards from almost any base vehicle. As with the VP full tarpaulin system, there are only a few parameters that need to be taken into account when planning the body.



Sliding pillar



Fixed pillar

More info on the VARIO-CS at
www.EdschaTS.com





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