Sortimo International GmbH
Dreilindenstrasse 5
86441 Zusmarshausen,
Germany
service@sortimo.de
mySortimo.de

Installation instructions

GL4

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Warnings and symbols

- These instructions contain information about possible dangers that could arise with incorrect use and/or improper behaviour.

A distinction is made between the following:

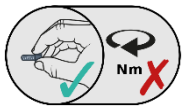
⚠	**Danger!**
Failure to observe the warning can cause severe personal injury and/or serious material damage!	

⚠	**Caution!**
Failure to observe the instructions can cause personal injury and/or material damage!	

☞	**Important!**
Failure to do so can result in material damage!	

ⓘ	**Information!**
Recommendations and useful hints!	

Symbols

	This symbol indicates that the screw fixing is only to be tightened hand-tight!

Information on the document

⚠	**Caution!**

Injury from lifting too heavy a load

The van racking system may be too heavy for one person, depending on the configuration. This could result in minor injuries.

- Installation should be carried out by two people.
- Ensure a safe working environment; park the vehicle on a flat and solid surface.
- If the vehicle is to be driven off normal roads, all screw connections need to be fitted using an appropriate screw locking tool.
- When installing the van racking system, make sure that all existing service access points (e.g. first-aid box, spare wheel) remain accessible after installation.

Information!

Depending on the configuration, several van racking systems are included in the delivery. We recommend that you install them separately from each other.

Important!

Ensure that the specified screw fixing torques are adhered to.

- **M5 = 4 Nm ±10%**
- **M6 = 7.5 Nm ±10%**
- **M8 = 20 Nm ±10%**

If other torques are required, they are specified in the instructions!

Safety labels

Caution!

Dangerous situations cannot be avoided if safety labels are illegible or missing from the product.

- Make sure on a daily basis that all safety labels are visible on the product.
- Replace any missing or illegible safety labels.

Adhesive labels

There are adhesive labels affixed at various points in the vehicle. These adhesive labels act as guides. The adhesive labels must be legible; if they are not legible, they must be replaced.

Limitations of use

Danger!

Never exceed the maximum permitted loading weight!

- Pay attention to the weight of your van racking system.
- Note the maximum permitted load capacity/payload of the elements.
- When using, make sure that the tools and consumables are held securely in place.
- Danger from falling objects
- Observe the specifications in the handbook and in the vehicle documentation
  - Maximum permissible axle load,
  - Maximum permissible total weight.

Operator’s obligations

Danger!

Ensure that ...

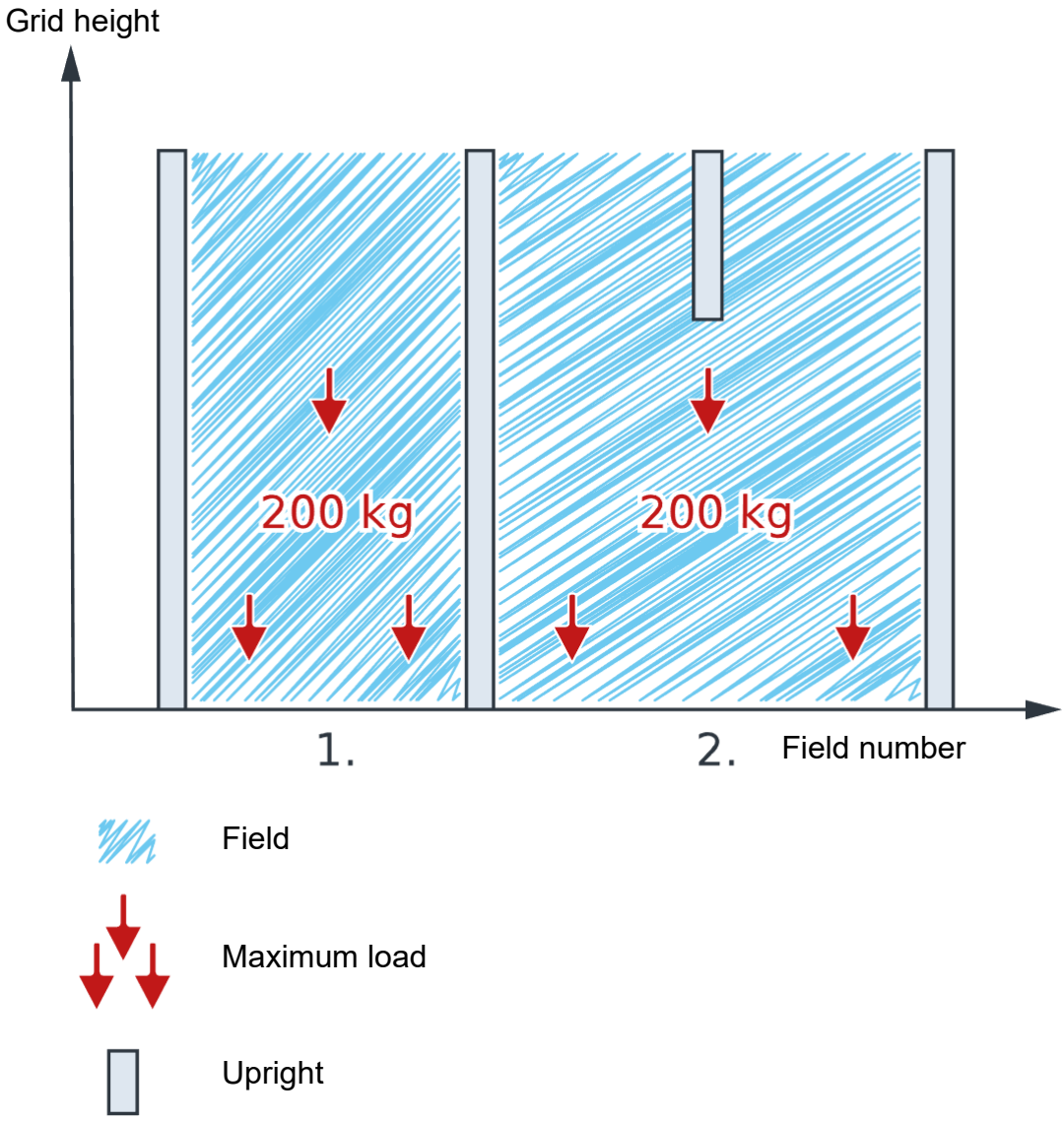
- the applicable laws and standards are observed (e.g. StVO road traffic regulations and professional association guidelines).
- the safety labels are visible and legible on the product.
- the safety equipment is present and undamaged. The safety devices include:
  - **divider,**
  - **ventilation/air extraction.**
- the van racking is regularly inspected for wear or damage.
- there are sufficient lashing points available.
- suitable lashing and load securing devices are provided.
- the vehicle has suitable ventilation and air extraction when gas cylinders are being transported.
- the user has read and understood this document.
- the user has the required knowledge and can apply it.

Globelyst Block

Field load:

A van racking system can be divided into fields. A field is an area between two profiles that is directly connected to the installation and floor cladding.

Each field has a maximum load capacity of **200 kg**.



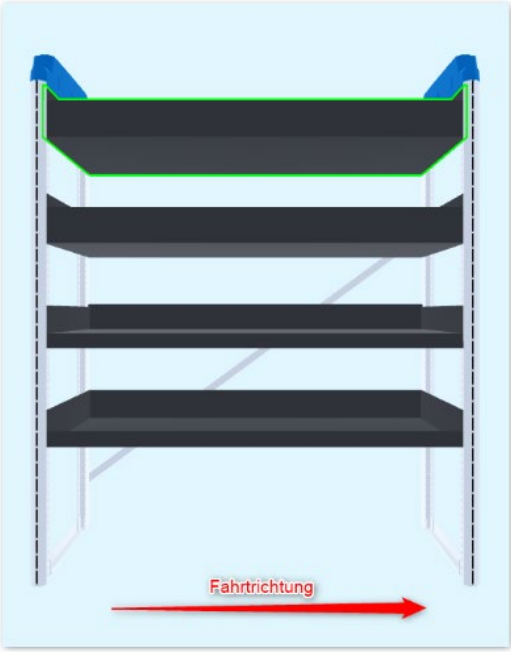
	Important!
•	Adhere to the maximum payload and maximum axle load of the vehicle!

Frame rules / frame traverse rules

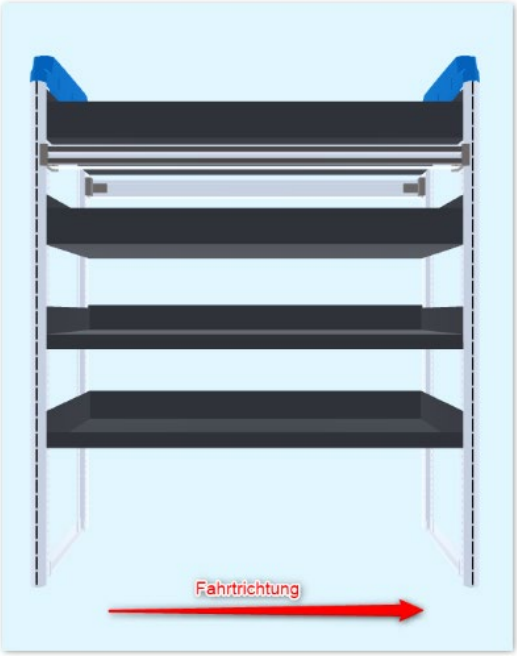
ⓘ	**Information!**
The frame rule or frame traverse rule defines minimum requirements for the installation of installation elements in order to obtain sufficient stability of the block in the installed state and during transport.	

Diagonal braces

If only floors without frame / frame traverses are installed, at least one diagonal brace must be installed in ascending direction in the direction of travel.



- Since no frame traverses are installed, a diagonal brace is required in ascending direction in the direction of travel.

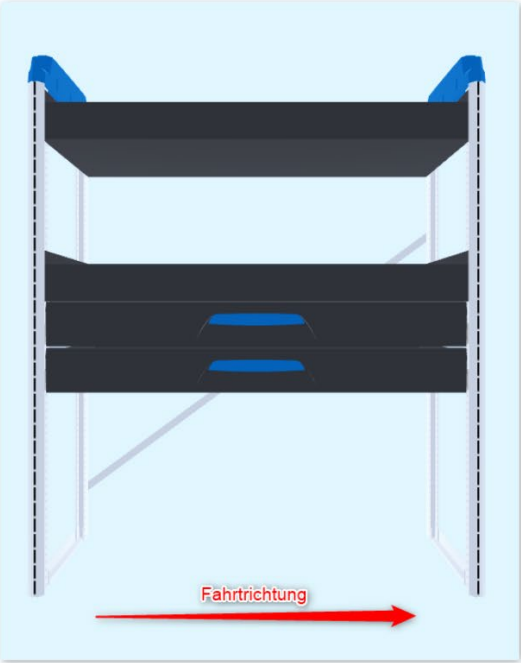


- Since a pair of frame traverses has been installed, no diagonal braces are required here.

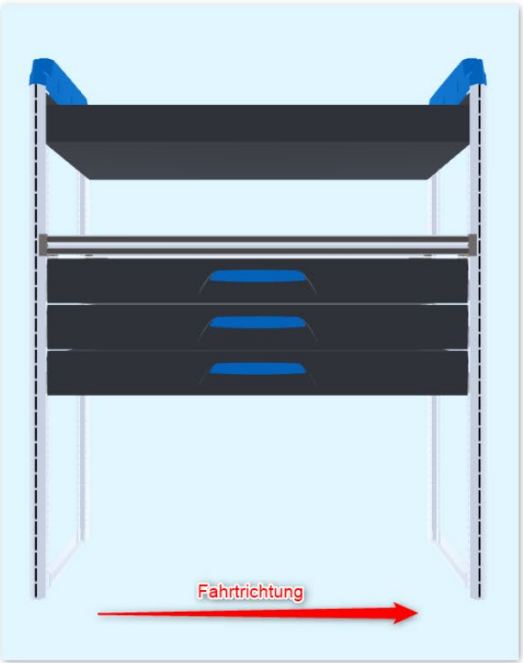
Drawers / case trays

From three drawers or case trays, a frame / frame traverses pair (1 traverse at the front, 1 trat the rear) is required.

This should be installed above the top drawer or the top case tray if possible.



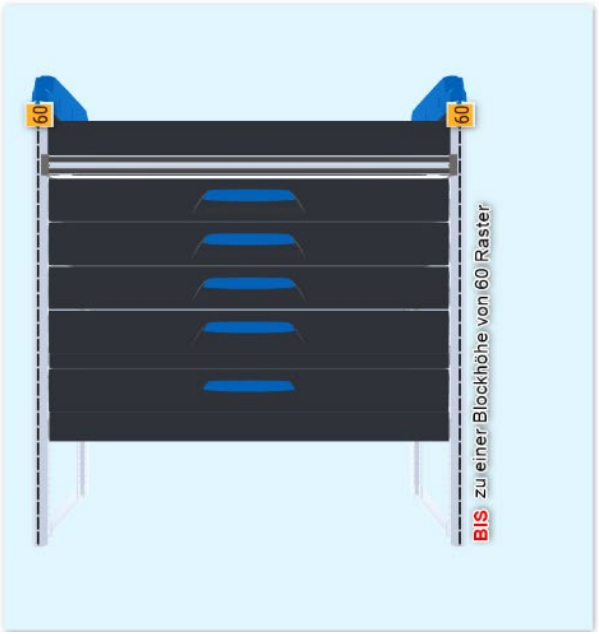
- When installing 2 drawers / case trays, no frame traverse pair / frame is necessary.
- The diagonal brace meets the minimum requirement.



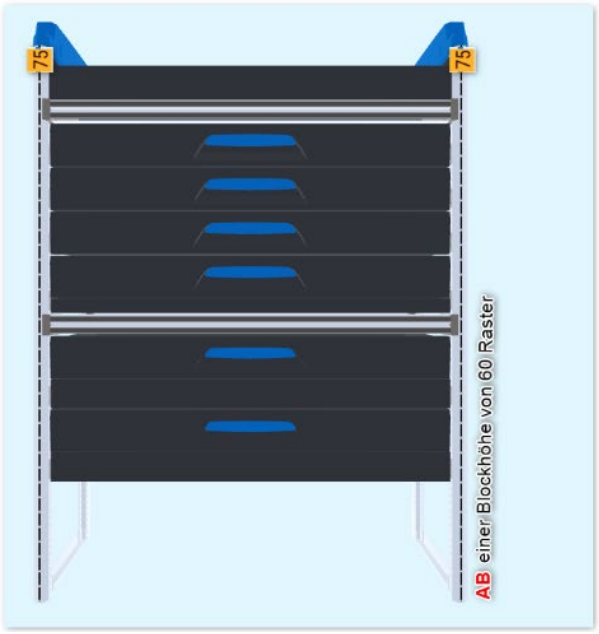
- A frame traverse pair / frame is required from a installation of 3 drawers / case trays.

Grid height

For a block height of more than 60 height grids, equipped with 3 (or more) drawers or a combination of these components, 2 pairs of frames / frame traverses are required.

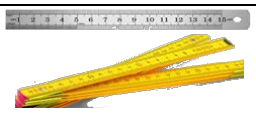


- If more than 2 drawers / case trays are installed only up to a block height of 60 grids, a frame / frame traverses pair is sufficient.



- If more than 2 drawers / case trays with a block height of more than 60 grids are installed, two frames / frame traverse pairs must be installed.

Required tools

Tool:	Size:	Image:
Hexagon socket screwdriver or bit insert or socket	Size 4 Size 5	
Torx screwdriver or bit insert or socket	T 40	
Phillips screwdriver		
Torque wrench	7 – 25 Nm	
Screw fixing tool	AF 10 AF 13	
Blind rivet nuts Mounting tool	M 6 M 8	
Drill		
Drill sleeve (for centring and as a depth stop)		
Metal drill		
Plastic hammer		
Scissors		
Cordless screwdriver		
Scriber		
Measuring equipment		

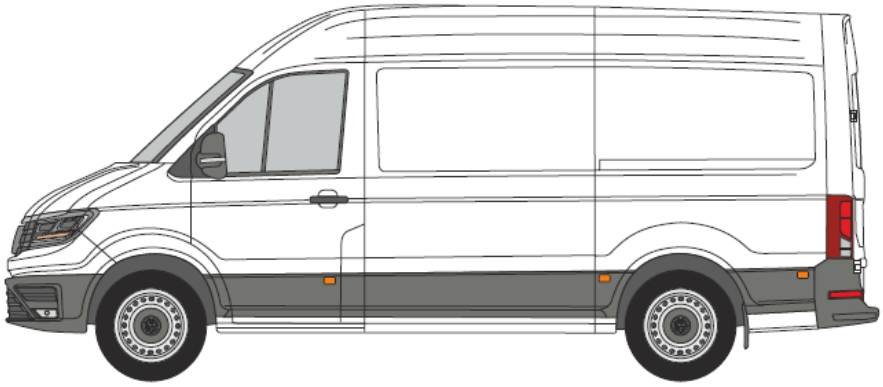
Angle		
Corrosion protection (e.g. zinc spray)		
Cleaning fluid		
Vacuum cleaner		
Optional - 1000002903 Plug pusher (49437570) KSS 8x20x22.7		

Information

ⓘ	**Information!**
The position is always specified “in the direction of travel”.	

The following illustrated assembly instructions describe the requisite steps involved in the assembly process.

Direction of travel



Front Centre Rear

Block “left side”

Block “right side”

Rear

Preparing the vehicle

General

Any original factory-fitted cladding in the vehicle, which is not to remain in the vehicle with the van racking system, needs to be removed.

If the original cladding in the vehicle is to remain when the van racking system is fitted, the cladding should remain in the vehicle until the attachment points of your van racking system have been positioned. In some cases, it may be necessary to remove the cladding in advance to find possible attachment points on the vehicle body for the van racking system.

Use the installation instructions supplied with the side cladding if Sortimo cladding is to be fitted in the vehicle.

Note that the cladding should only be fitted in the vehicle and not permanently fixed in place when positioning the attachment points for the van racking system. Additional holes/recesses to attach the van racking system may possibly have to be made.

Remove the cladding from the vehicle once the attachment points have been marked for fixing the blind rivets or fixing plates into the vehicle body.

Remove or unscrew any original lashing eyes in the floor. Remove the vehicle manufacturer's floor cladding as well, if fitted.

Installation on the floor

	Important!
Material damage caused by rough handling. The connection folds of the floor cladding are sensitive to impacts and crushing. • Connect the floor cladding carefully.	

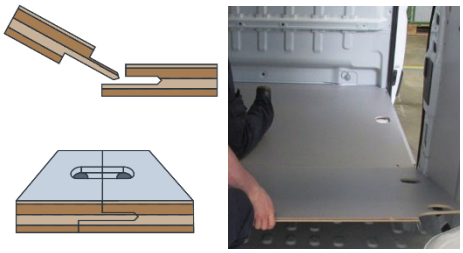
Preparing the vehicle

	Information!
Any floor cladding fitted in the vehicle needs to be removed.	

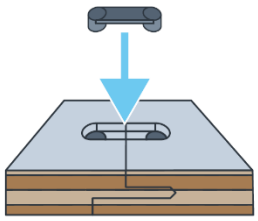
- Remove the lashing eyes in the floor area.
  - Keep the components of the lashing eyes that have been removed for subsequent re-fitting.
- Clean the vehicle floor.

Positioning the floor cladding

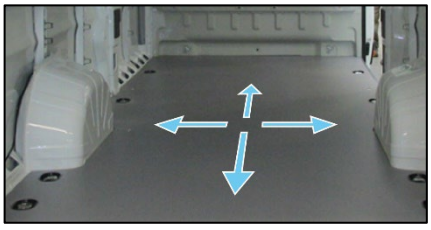
ⓘ	**Information!**
The floor cladding is laid from the partition to the rear of the vehicle.	

Check whether the folds of the floor cladding are damaged. Position the first floor cladding panel.	
Position the next floor cladding panel. Join the floor cladding panels, - ensuring that the connecting ends are flush. - Make sure that the recesses line up with each other. If available, position additional floor cladding panels one by one and join them to the previous ones.	

Attaching floor clips

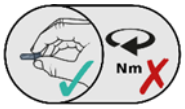
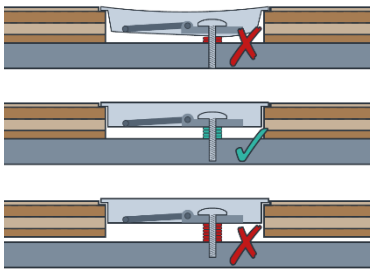
To level the van racking system, “lightly” press in the floor clips that fix the floor elements to each other by hand so that they are easier to remove.	

Levelling and aligning the floor cladding panels

Level and align joined floor cladding panels.	

Attaching lashing eyes

ⓘ	**Information!**
The floor cladding requires a lashing cup to be fitted. Shims may be needed to raise the lashing cup depending on the floor of the vehicle body. Select the number of shims in such a way that the floor cladding is lightly compressed.	

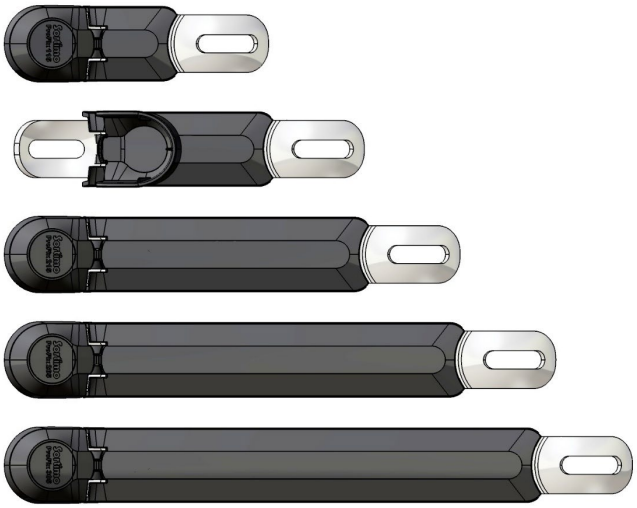
Assign the lashing eyes with their original screws to the original positions. Calculate the number of shims 	

☞	**Important!**
Tighten the lashing eyes by hand!	

Note regarding ProFix

The van racking system is attached to the wall of the vehicle using ProFix brackets. ProFix is available in several versions to connect the van racking system to the wall of the vehicle.

- ProFix 115
- ProFix 165
- ProFix 215
- ProFix 265
- ProFix 305

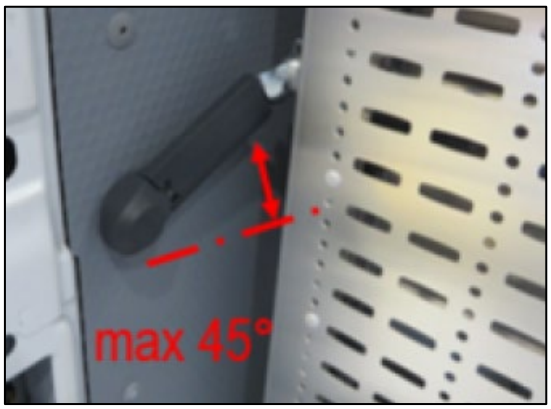


Information!

Additional fastening brackets (ProFix) can be attached, if required (generally heavy loading, heavy loading in the upper area).

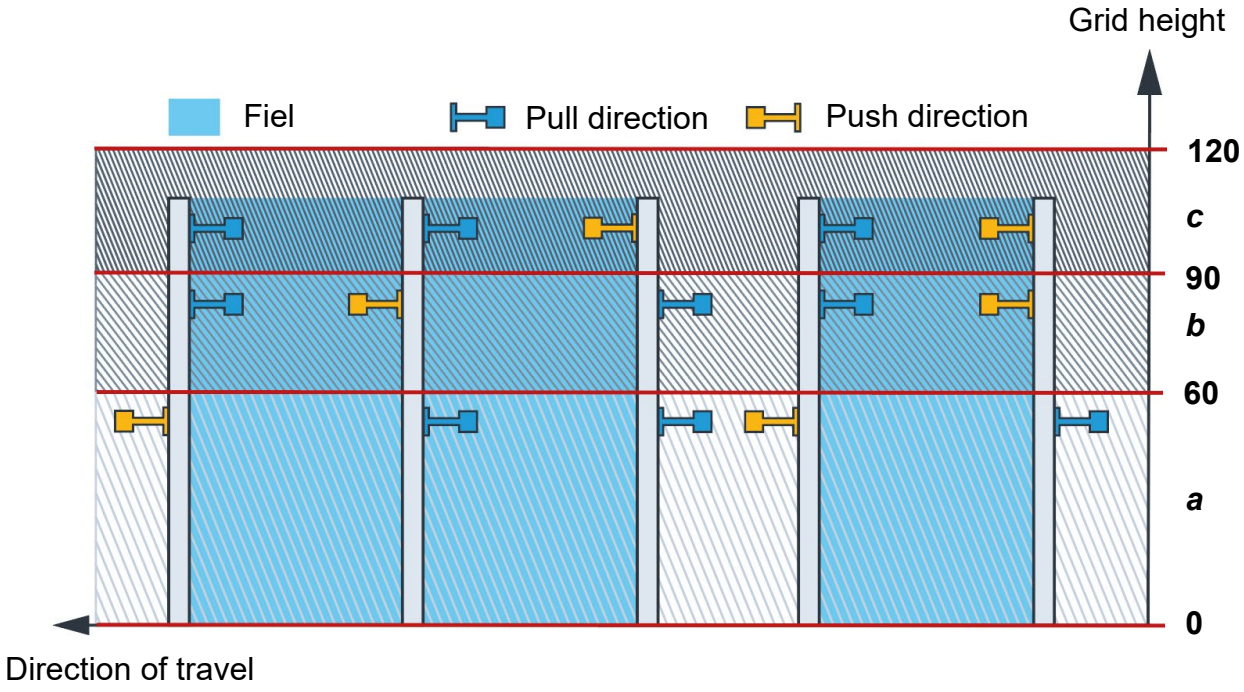
Important!

ProFix has a reliable angle adjustment of +/- 45°.



Fitting ProFix

There are two options for fitting ProFix brackets – in a push and in a pull direction.



Example 1 (figure on right) left side element / right side element:

a. From grid height **0 to 60**: 2x "1000024950 SSA ProFix 165 mm blind rivet nuts
b. From grid height **61 to 90**: in addition to point 1: 2x "1000024951 SSA ProFix 215 mm blind rivet nuts
c. From grid height **91 to 120**: in addition to points 1 & 2: 2x "1000024951 SSA ProFix 215 mm blind rivet nuts

Example 2 (figure on left) left side element / intermediate element / right side element:

On the side elements:

a. From grid height **0 to 60**: 2x "1000024950 SSA ProFix 165 mm blind rivet nuts
b. From grid height 61 to 90: in addition to point 1: 2x "1000024951 SSA ProFix 215 mm blind rivet nuts
c. From grid height **91 to 120**: in addition to points 1 & 2: 2x "1000024951 SSA ProFix 215 mm blind rivet nuts

On the intermediate element:

a. From grid height **0 to 60**: 1x "1000024950 SSA ProFix 165 mm blind rivet nut
b. From grid height **61 to 90**: in addition to point 1: 1x "1000024951 SSA ProFix 215 mm blind rivet nut
c. From grid height **91 to 120**: in addition to points 1 & 2: 1x "1000024951 SSA ProFix 215 mm blind rivet nut

Fixing information

Body

The van racking system is fitted to the body of the vehicle using fastening plates or blind rivet nuts (M8 Rivkle PN). Please note that the fastening plates must be inserted into the hole from behind and so there needs to be room behind the hole.

The blind rivet nut (M8 Rivkle) can be fitted in any suitable location.

ⓘ	**Information!**
When connecting to the body, it is preferable to use Fastening plates instead of blind rivet nuts.	

Example:

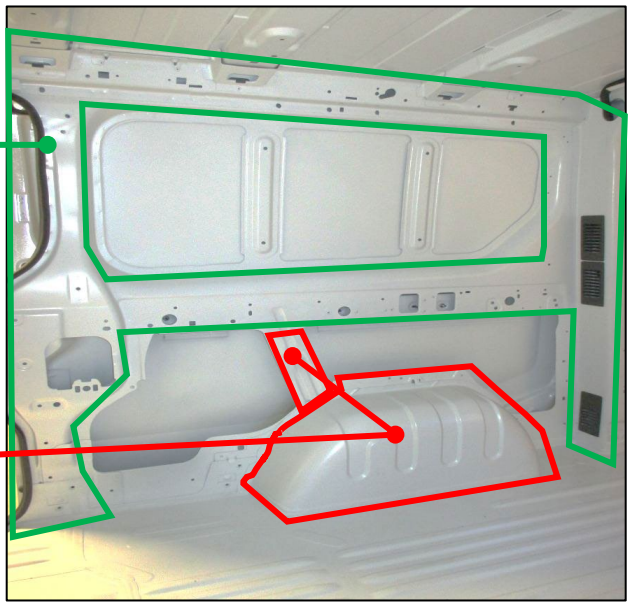
Fastening plate 1-25-S Ref. no.: 71008062	
Fastening plate 1-25 Ref. no.: 71008060	
Blind rivet nut M8x29vz RIVKLE-PN Ref. no.: 71003987	

⚠	**Caution!**

Make sure that the block is attached to suitable places, such as pillars, stable longitudinal bars, etc.

The block can be attached to stable pillars and longitudinal bars!

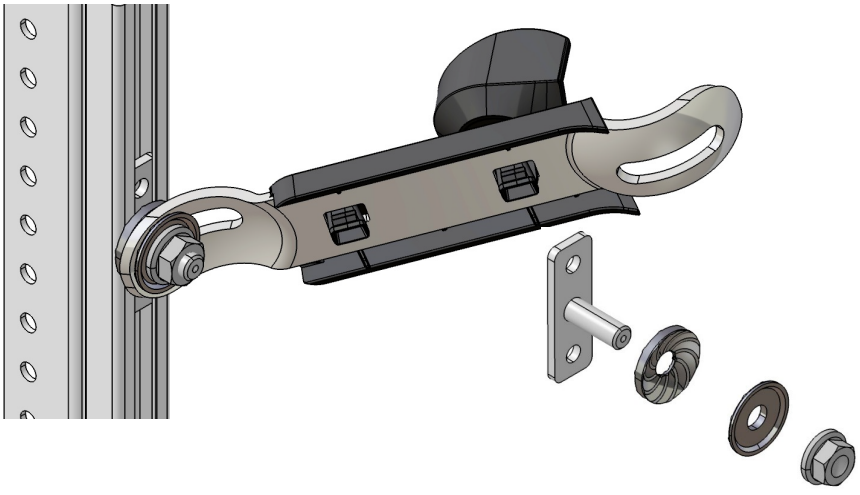
It may not be attached to unstable intermediate struts and wheel arches!



Van racking system

It can be attached to the van racking system with ProFix brackets, either using slot plates and/or insert nuts and/or locator nuts with a ProFix adapter plate.

Example:

Insert nut/locator nut SSA ProFix adapter upright 	
Slot plate SSA ProFix	

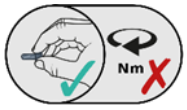
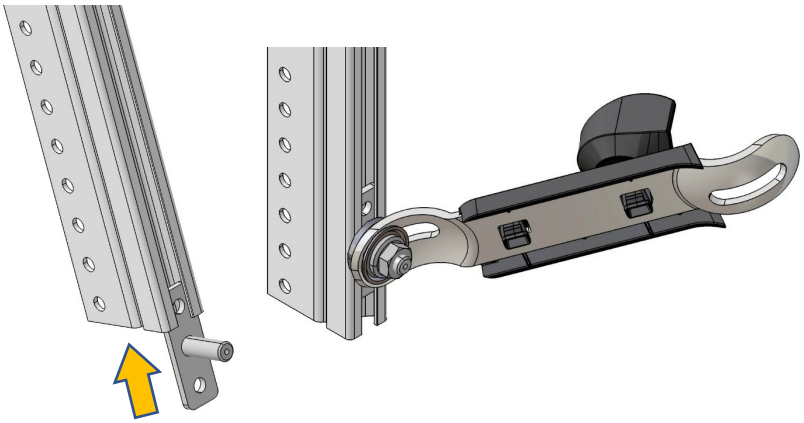
Van racking system fixings

ⓘ	**Information!**
Depending on which fixing is used to fit the van racking system, it needs to be prepared in advance on the block.	

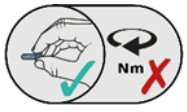
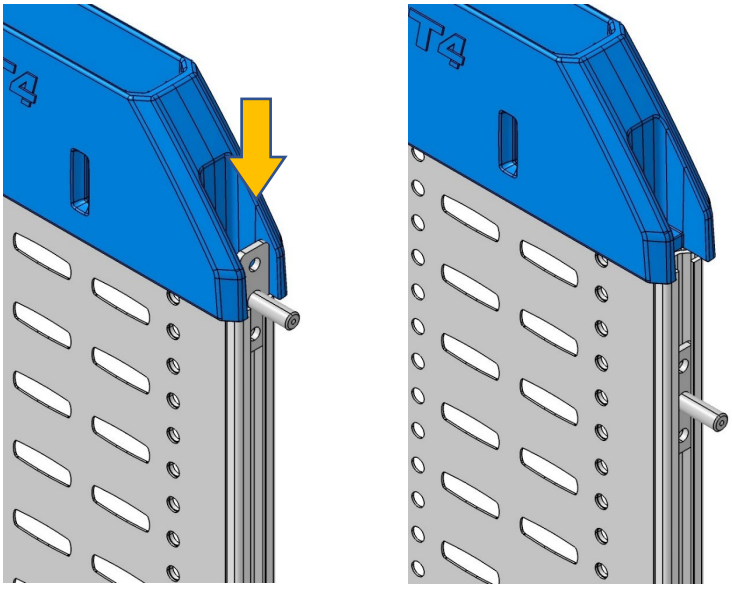
Version "1" Inserting the grooved bracket to the rear upright

ⓘ	**Information!**
Fit the fastening bracket or fixing plates to the rear upright before introducing the van racking system.	

Insertion from below:

Tilt the equipment slightly forward and push the grooved bracket upwards. Screw the fastening bracket "hand-tight" with locking nuts. 	

Insertion from above:

Sortimo railing, The grooved bracket can be inserted from above without removing the railing. Screw the fastening bracket or fixing plate "hand-tight". 	

Version "2" Positioning the insert nut

When positioning the van racking system, fit the ProFix brackets with the insert nut and ProFix adapter plate onto the block and leave them on the block until the block is permanently fixed in place.

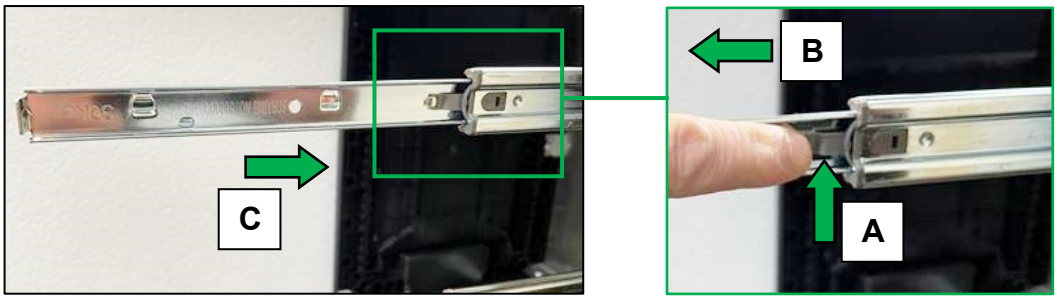
Preparation of the van racking system

ⓘ	**Information!**
All boxes, cases and drawers must be removed from the van racking system. If a long components tray, a workbench or other attachments are planned for the Sortimo van racking system, they can be supplied as separate parts depending on the dimensions of the block, and also need to be removed from the van racking system. Refer to the separate installation instructions for “information on installing attachments”, such as long components trays, folding workbenches etc.	

Removing drawers:

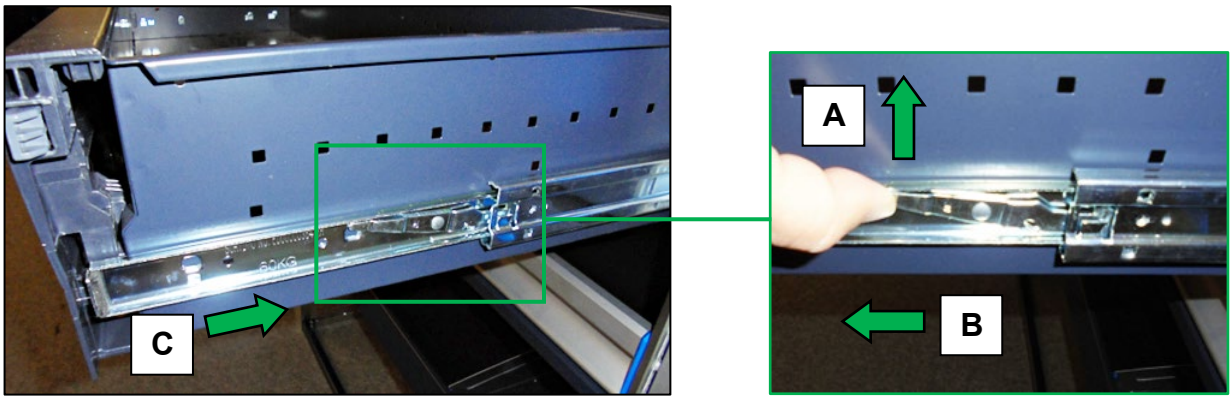
Telescopic slide 30 kg

Press on the plastic catches (A) on both sides and pull out (B).



Telescopic slide 60 kg / 90 kg

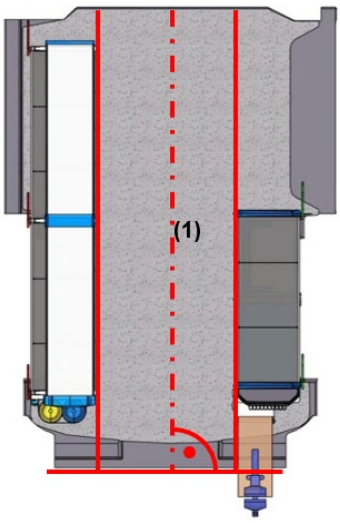
Press both the left and right levers (A) upwards while pulling out the drawer (B).



Levelling the van racking system

The van racking system can be positioned when the floor of the vehicle is level.

Step “1”

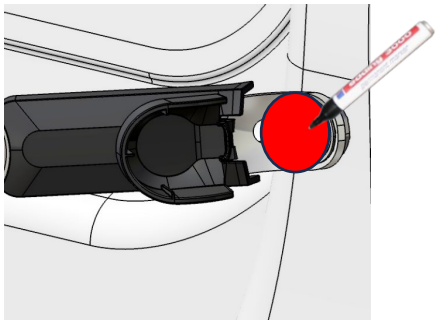
Position the van racking system in the vehicle as planned. When doing so, position the van racking system as “close” as possible to the wall of the vehicle body. The distance from the block to the wall of the vehicle body or side cladding (if fitted) should be a minimum of 10 mm to avoid friction and resulting rattling and friction noise.	
Level the block and mounting parts so that all connections are free of tension and the block is perpendicular to the floor.	
Arrange the block and the mounting parts parallel to the centre axis of the vehicle (1). Aligning the block to the wall of the vehicle is not recommended as it can run conically to the partition.	

Step “2”

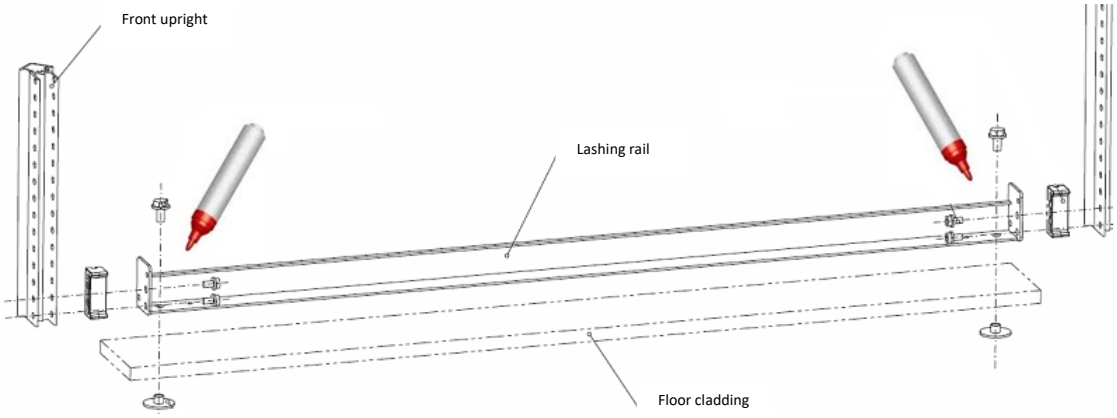
Once the van racking system has been levelled and positioned in the vehicle, and the ProFix brackets have been adjusted, the required attachment points can be marked on the floor cladding and the side wall.

The ProFix brackets are fitted hand-tight at the predefined points on the van racking system and marked on the side wall of the vehicle.

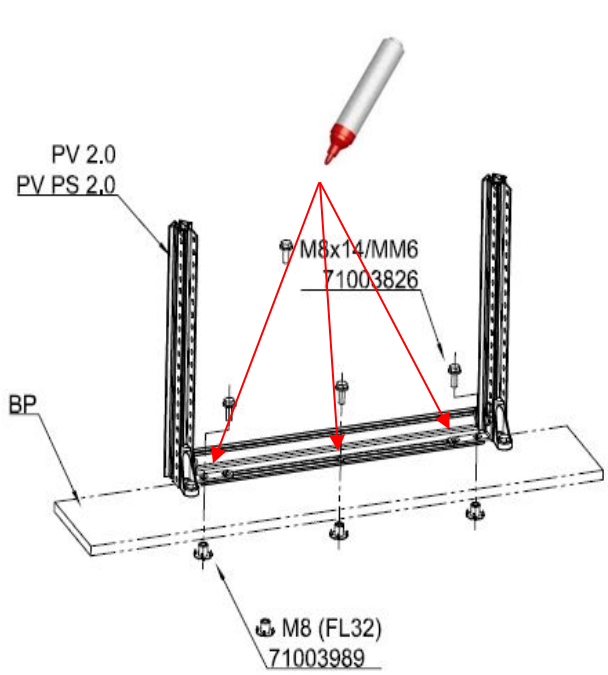
- SSA ProFix

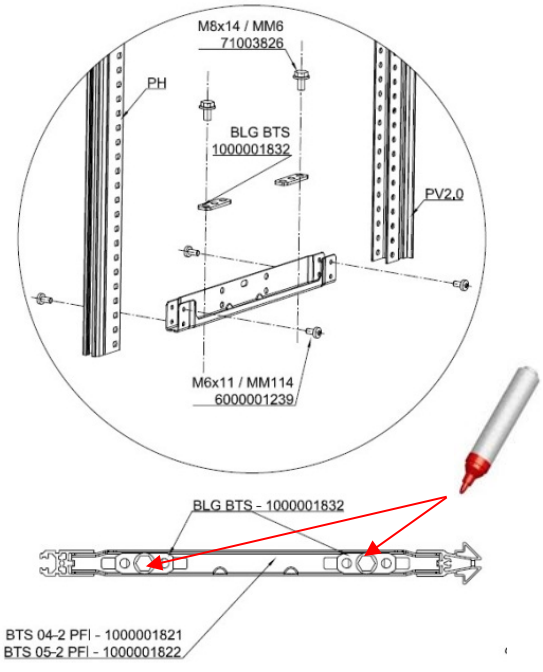


Marking the lashing rail / base plinth

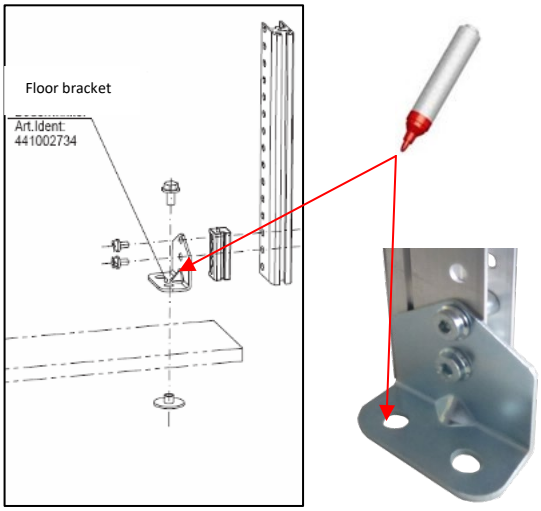


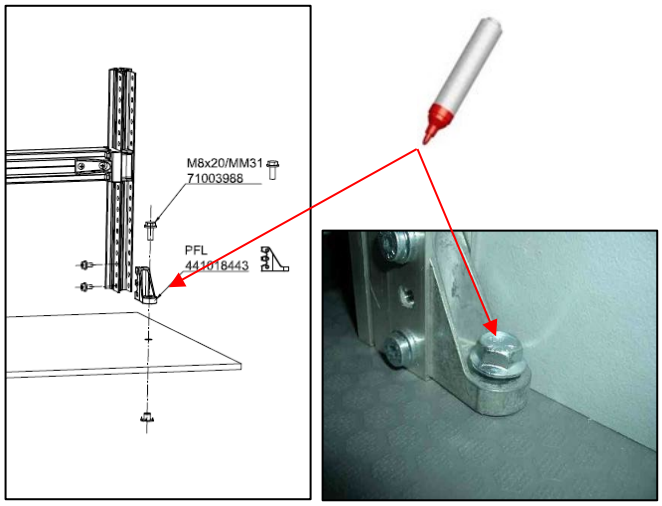
Marking the ProSafe floor lashing rail / floor depth rail



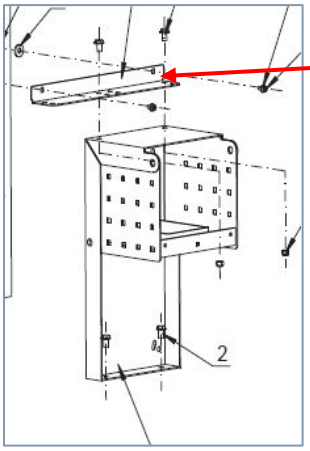


Marking the floor bracket / upright foot

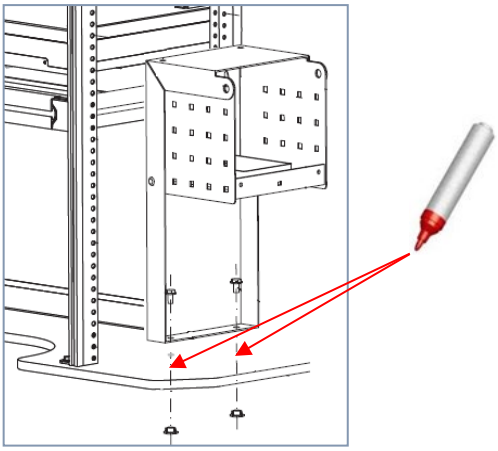




If a folding workbench is installed on the block, the drill holes also need to be marked here. The folding workbench bracket must be screwed hand-tight to the bracket of the workbench fixing.

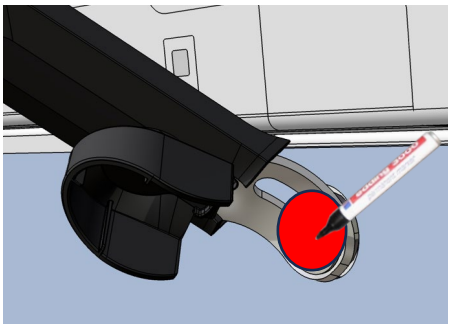


Workbench fixing bracket



If the vehicle is equipped with side cladding, mark the attachment points on the side cladding.

Before doing this, you need to check that the planned attachment points are on stable bars by removing some side cladding plugs behind the side cladding.

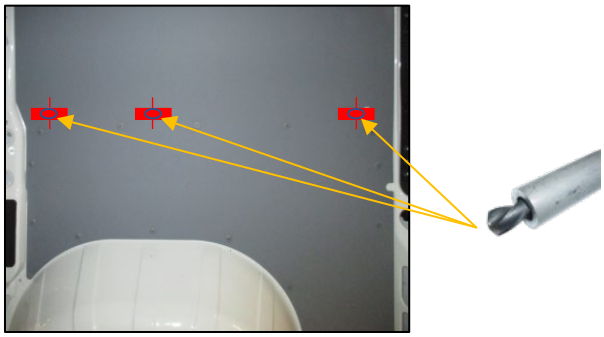


Step “3”

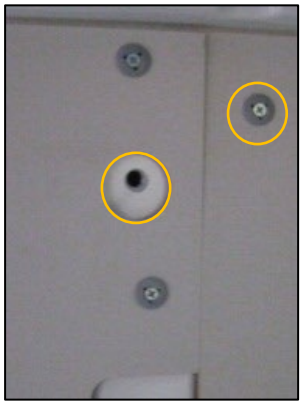
Once all the fixing points of the van racking system and accessories (e.g. folding workbench) have been marked on the floor cladding and the side wall of the vehicle, the van racking system and the floor cladding can be removed from the vehicle.

Preparation of the vehicle body

☞	**Important!**
Before drilling, check that there are no cables/lines in the bars of the vehicle body, as they could be damaged by drilling.	

Do not yet remove any side cladding in the vehicle. The marked drill holes first need to be transferred to the body of the vehicle with a 3 mm drill bit. A hole is drilled in the middle of the mark through the side cladding and the adjacent vehicle panel. **Use a drill sleeve as a depth stop to prevent damage to the exterior wall of the vehicle.**	

After this step, the side cladding can be removed from the vehicle.

If necessary, holes or existing drill holes in the left and/or right side cladding for shims, spacers or threaded washers may need to be adapted to the respective diameter using a drill or step drill. **Never screw ProFix brackets directly onto the side cladding without spacers.**	

Depending on the fitting version, there are different ways of preparing the body of the vehicle for the final installation of the van racking system.

The fixing versions and procedures are described below.

☞	**Important!**
Note that “only” the fastening materials proposed by Sortimo may be used to attach or fix the van racking system in the vehicle. The fixing materials are not all included with delivery and need to be ordered as an option, depending on the fixing version selected.	

Version “1”

With blind rivet nut if there is no original hole.
Drill the marked position at the required location.

- Use a drill sleeve!
- Pre-drill
- Final Ø 11 mm
- Insert the blind rivet nut

Version “2”

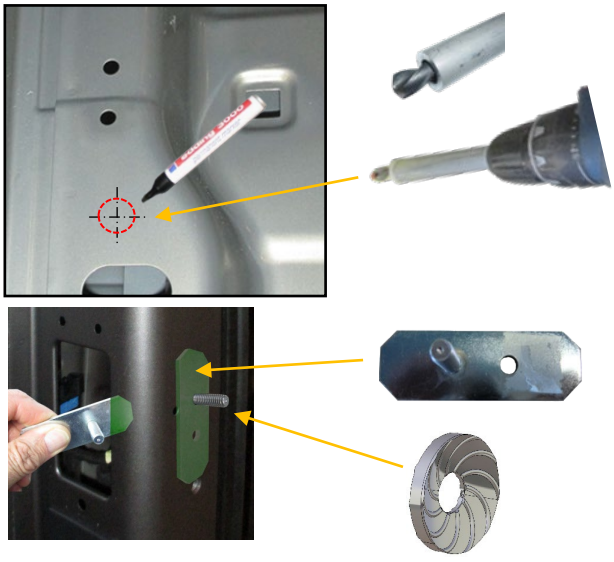
With blind rivet nut if there is already a suitable original hole (Ø 11 mm).
Insert the blind rivet nut.

Version “3”

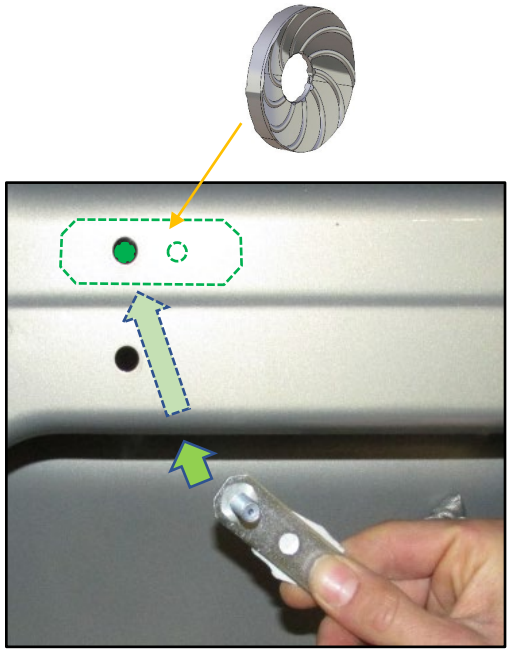
With fastening plate if there is no original hole.
Drill the marked position at the required location.

- Use a drill sleeve!
- Pre-drill
- Final Ø 8.5 mm
- Secure with a captive washer

Handy hint: Use pointed pliers to insert the fixing plate.



Version “4”

With a fastening plate if there is already an original hole. Position the fastening plate. - Secure with a ball socket Handy hint: Use pointed pliers to insert the fixing plate.	

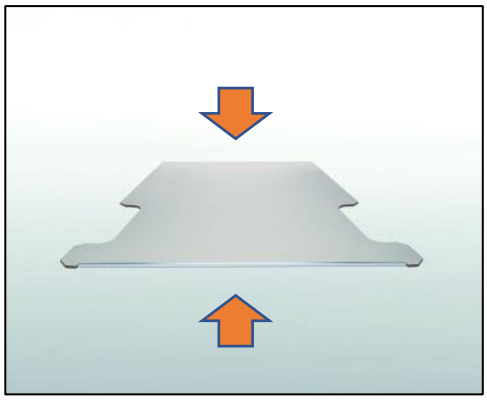
Information!

Once all the holes have been drilled, remove all drilling swarf and dirt from the vehicle. Do not use compressed air, but rather use an industrial vacuum cleaner, as compressed air does not remove drilling swarf and only redistributes it around the vehicle.

Preparing the floor cladding

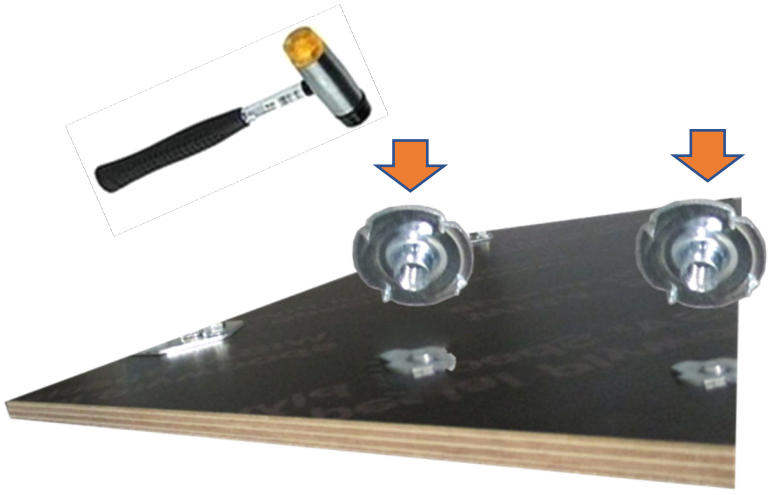
Drill the marked attachment points on the floor cladding with a spiral drill bit Ø 11 mm and use a countersink Ø 15 mm to recess them on the upper and lower side.

Ø=11 mm



Ø=15 mm

The M8 galvanised tap-in nuts can then be hammered into the drill holes from below with a rubber mallet.

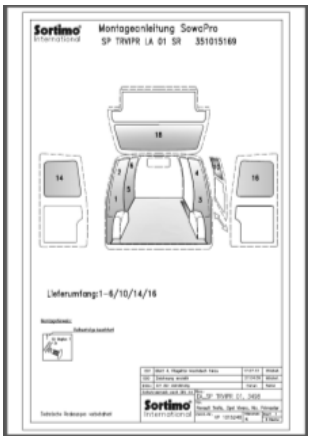
Tap-in nuts M8 galv. (FL32) Ref. no.: 71003989	

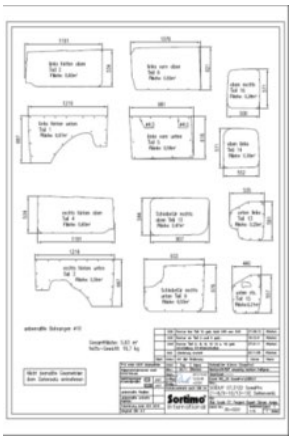
Installing the van racking system

Side cladding

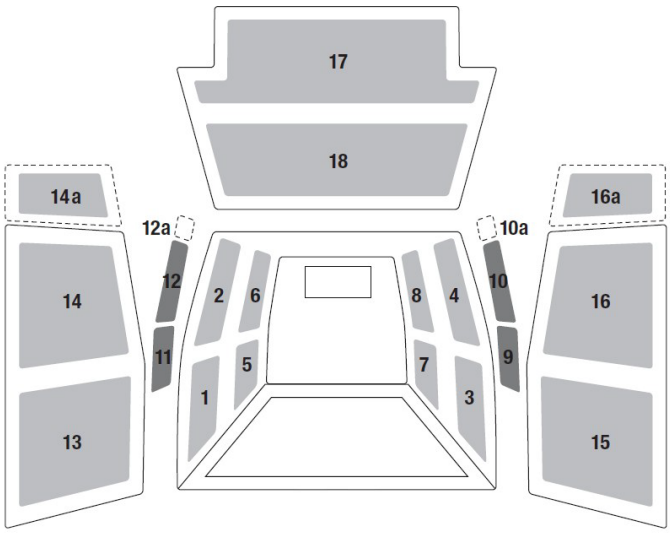
Step “1”

If it is to be fitted, the side cladding needs to be fitted in accordance with the vehicle-specific installation instructions (supplied with the side cladding).





Side cladding matrix



These cladding elements are included in the Basic Set 1-6.

<table>
<tr><td colspan="2">They are installed using plastic plugs, Sowafix with self-drilling screws and/or SV clamp holders. They are supplied with the side cladding in the form of a screw or mounting kit.</td></tr>
<tr><td>SV clamp holder
Ref. no.: 331016905</td><td> </td></tr>
<tr><td>Sowafix shim
Ref. no.: 49437587 (pack of 100)</td><td> </td></tr>
<tr><td>Plastic plug SV-D6
Ref. no.: 331017800 (pack of 50)</td><td>
Optional – 1000002901
Plug pusher (331017800)
KSS 6x30x18,5</td></tr>
<tr><td>Plastic plug SV-D7
Ref. no.: 49437563 (pack of 50)</td><td>
Optional – 1000002902
Plug pusher (49437563)
KSS 7x30x26</td></tr>
<tr><td>Plastic plug SV-D8
Ref. no.: 49437570 (pack of 50)</td><td>
Optional – 1000002903
Plug pusher (49437570)
KSS 8x20x22,7</td></tr>
<tr><td>Plastic plug SV-D9
Ref. no.: 1000002898 (pack of 50)</td><td>
Optional – 1000002904
Plug pusher (1000002898)
KSS 9.5x22x21.5</td></tr>
</table>

Floor cladding

Step “2”

Now the floor cladding needs to be laid back into the vehicle and, if necessary, screwed to the floor of the body.

Cleaning the vehicle floor

Decoplast 9150 butyl tape

Ref. no.: 331010276.Pack size 26 m

Cut the butyl tape to size, stick the strips as indicated, and peel off the protective film.

Attention!

Once the floor cladding is in the vehicle, do not stand on it or push it down before it is finally positioned, otherwise it will not be possible to place or move it.

Laying the floor cladding

Important!

Material damage caused by rough handling.

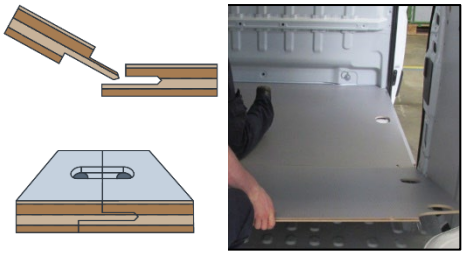
The connection folds of the floor cladding are sensitive to impacts and crushing.

- Connect the floor cladding carefully.

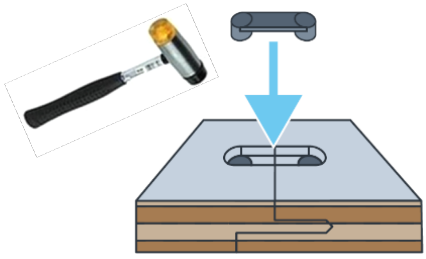
Information!

The floor cladding is laid from the partition to the rear of the vehicle.

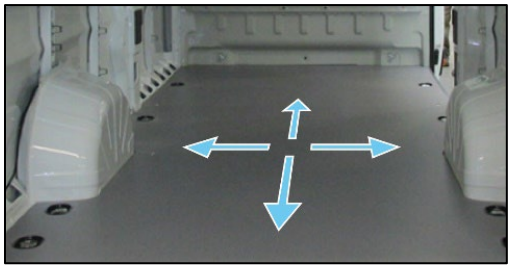
Soboflex does not need to be screwed down.

Check whether the folds of the floor cladding are damaged. Position the first floor cladding panel.	
Position the next floor cladding panel. Join the floor cladding panels, - ensuring that the connecting ends are flush. - Make sure that the recesses line up with each other. If available, position additional floor cladding panels one by one and join them to the previous ones.	

Attaching floor clips

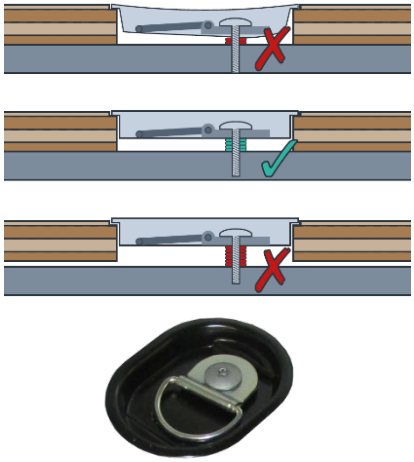
Position the floor clips. Carefully use a rubber mallet to fix the floor clips in place. Repeat these steps until all floor cladding panels have been connected to each other.	

Levelling and aligning the floor cladding panels

Level and align joined floor cladding panels.	

Attaching lashing eyes

ⓘ	**Information!**
The floor cladding requires a lashing cup to be fitted. Shims may be needed to raise the lashing cup depending on the floor of the vehicle body. Select the number of shims in such a way that the floor cladding is lightly compressed.	

Assign the lashing eyes with their original screws to the original positions. Calculate the number of shims required.	

Depending on the model of vehicle, the floor cladding may need to be fixed to the partition with 2x compression angles.	

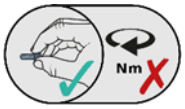
☞	**Important!**
Tighten the original screws using the required torque. - The respective torque can be found in the manufacturer's set-up guidelines.	

Van racking system

Step “3”

Position the van racking system in the vehicle and fix it in place. Position the right and left block in the vehicle and fix the blocks **hand-tight** to the designated points on the floor cladding and side cladding of the vehicle.

Carefully lift the van racking systems into the vehicle, **taking care not to push them on the floor cladding, as this could scratch it**!

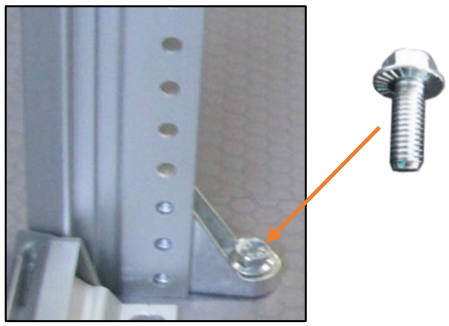
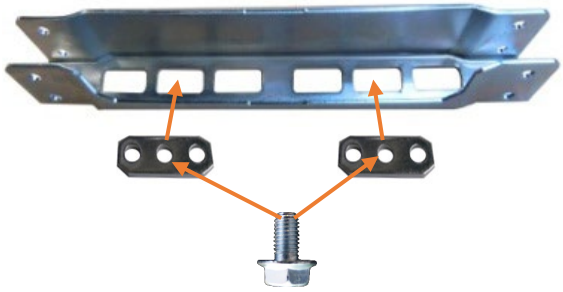
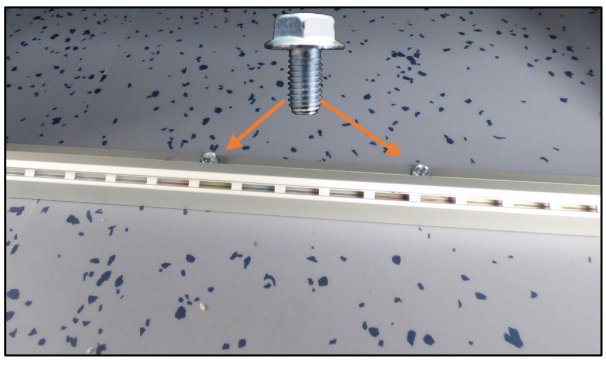


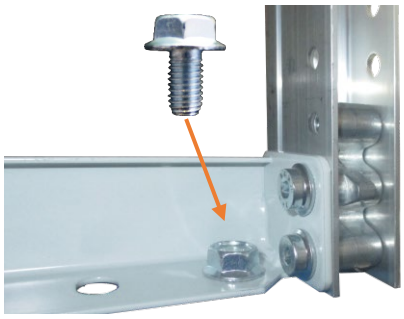
Fixing the block

Attaching the block to the floor / wall

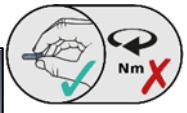
Fit all screws in the floor and wall area hand-tight.	

Attaching the block to the floor cladding of the vehicle

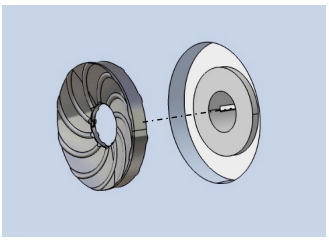
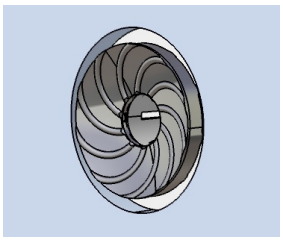
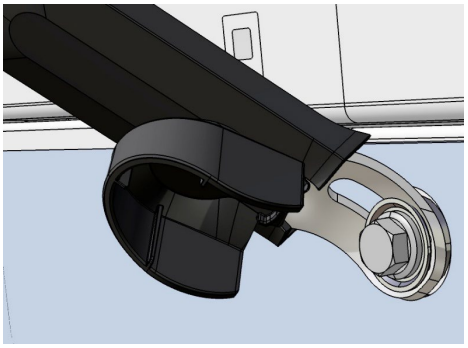
Lightweight upright foot Self-locking screw M8x20	
Floor depth rail Washer Self-locking screw M8x14	
Floor lashing rail Self-locking screw M8x14	

Floor depth rail Base plinth Self-locking screw M8x14	
Floor bracket Self-locking screw M8x14	

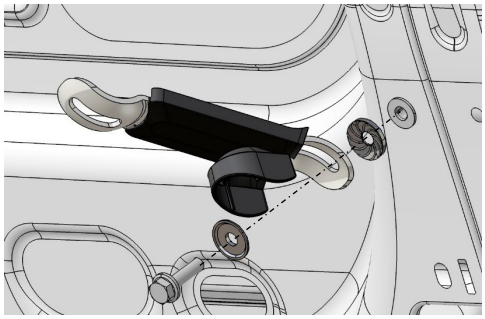
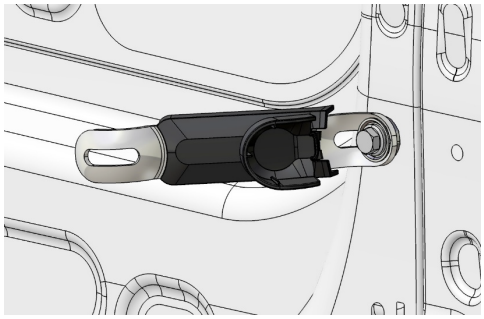
Attaching the block to the left / right side of the vehicle

Insert a retractable nut, shim or spacer underneath prior to fixing. Use an M8 locking nut with the EFI brackets when attaching to the fastening plate.	

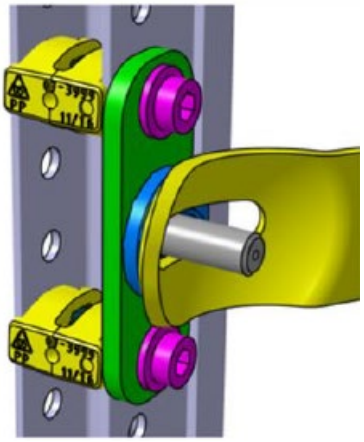
Attaching to the side cladding

SSA ProFix	  

Attaching to bars / pillars if retractable nuts are fitted

SSA ProFix Self-locking screw M8	 

Special cases GL4 blocks 90° to the direction of travel

Twice the number of ProFix brackets for rear and front uprights + SSA ProFix adapter upright With uprights near the sliding door + SSA ProFix adapter upright	Sample images: 

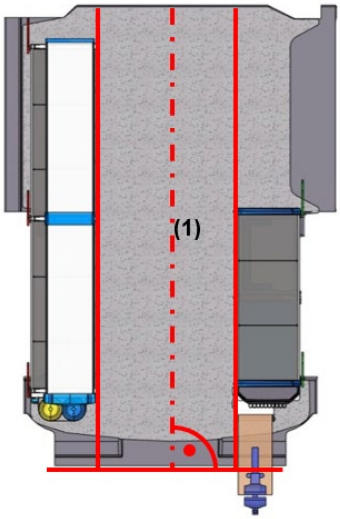
Attaching to bars / pillars if the original threads are available

Once all the blocks and installation components have been attached hand-tight, the van racking system can be finally levelled and permanently fixed in place.

Level the block and mounting parts so that all connections are free of tension and the block is perpendicular to the floor.

Arrange the block and the mounting parts parallel to the centre axis of the vehicle (1).

Aligning the block to the wall of the vehicle is not recommended as it can run conically to the partition.



Important!

Ensure that the specified screw fixing torques are adhered to.

- **M5 = 4 Nm ±10%**
- **M6 = 7.5 Nm ±10%**
- **M8 = 20 Nm ±10%**

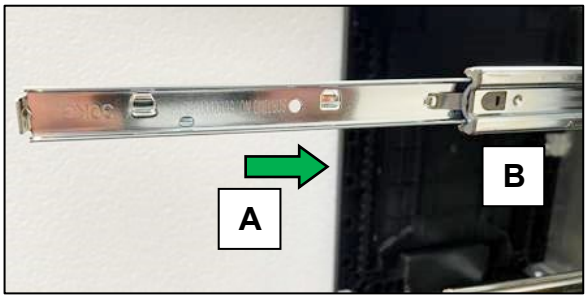
If other torques are required, they are specified in the instructions!

Fitting the drawers

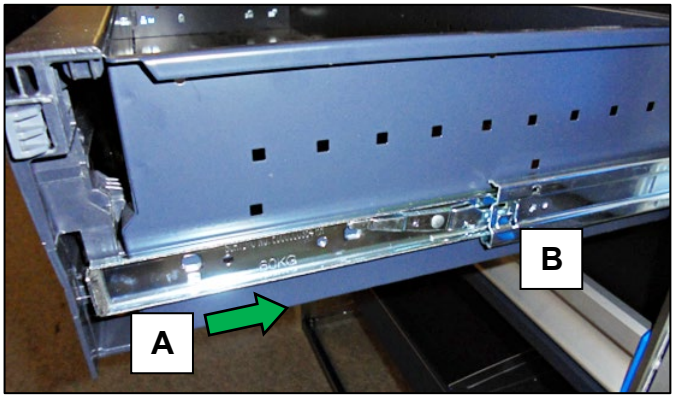
Installing drawers:

Re-insert both telescopic slides into the guide rails (B) and close the drawer with even pressure on both sides (A).

Telescopic slide 30 kg



Telescopic slide 60 kg / 90 kg



Installation (block accessories)

ⓘ	**Information!**

Refer to the separate installation documentation for the installation of long components trays, folding workbenches etc.

Accessories, such as hose holders etc., can be individually mounted in the vehicle as required.

- Only fit the accessories on suitable and sufficiently stable locations.
- Ask your local Sortimo representative for suitable mounting material.