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Sortimo®
Intelligente Mobilität

Installation Instructions

“Aluminium Jumbo-Unit”

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2 Warnings and symbols

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

2.1 A distinction is made between the following:

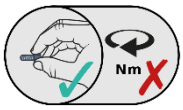
⚠	**Danger!**
Failure to observe the warning can cause severe personal injury and/or serious material damage!	

⚠	**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!	

2.2 Symbols

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

xx Nm	This symbol indicates that the screw fastening is to be tightened to the stated torque.

3 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.

Danger!

Note the separate health and safety guidelines for high-voltage vehicles!

Information!

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

Information!

We reserve the right to make modifications to the design without notice.

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!

3.1 Intended use

The Aluminium Jumbo-Unit is used to transport and store a wide variety of tools and materials.

If a van racking system is used, then a suitable partition should be installed to separate the cargo area from the driver's cab.

3.2 Operator's obligations

Danger!

Ensure that ...

- The applicable laws and standards are observed (e.g. StVO German Road Traffic Regulations and professional association guidelines).
- The safety labels are visible and legible on the product.
- The safety equipment is fitted and undamaged. The safety equipment includes:
  - **Partition,**
  - **ventilation and air extraction system.**
- The van racking system is regularly inspected for wear or damage.
- There are sufficient lashing points available.
- Suitable lashing straps and means of load securing 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.

3.3 Foreseeable misuse

⚠ Caution!
Damage to property and a risk of injury from damaged products. Severe injuries can result from the use of damaged products. • Do not use damaged products. • Replace damaged products with new products. • Do not repair damaged products at your own discretion.

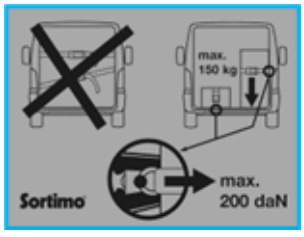
3.4 Requirements for the user

Life phases	Knowledge
Fitting and dismantling the product	- Technical expertise
Working on the electrics	- Specialist electrical engineering knowledge - Applicable legislation and standards, e.g. VDE 0100-717
Securing of loads	- The applicable legislation and standards governing the securing of loads, e.g. the German Road Traffic Act StVO and the German Regulation on the Approval of Road Vehicles StVZO.
Transporting gas cylinders	- Applicable laws and standards governing the transport of dangerous materials, such as GGVSE, ADR and SDB. - Operation of the ventilation and air extraction systems.

3.5 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.

3.6 Securing loads



This safety label can be found in the vehicle's cargo area. It contains instructions for securing cargo with ProSafe lashing straps.

- If cargo is lashed to the side of the van racking, the cargo must be in contact with the floor. In addition, ensure that the weight of the load does not exceed 150 kg.
- The lashing points can be loaded to a maximum of 200 daN.
- If cargo is lashed on the SoboPro, make sure that the distance between the load and the lashing point does not exceed 15 cm.
- Only use designated lashing points.
- The lashing hooks of a lashing strap must be fastened to lashing points of the same element.
    - Example: If the first lashing hook is attached to the floor, then the second lashing hook must be attached to another lashing point of the floor.

⚠ Caution!

Braking, accelerating, cornering or swerving generates forces on the cargo. An unsecured load can topple over or slip.

- Secure all objects in the cargo area to prevent them from toppling over and slipping.
- Secure cargo inside the van racking with a tight fit.
- Use dividers and anti-rattle mats inside drawers and shelves.
- Check that the load is secure before setting off every time.

Observe the applicable laws in accordance with StVO §22, 23 and StVZO §30, 31 relating to load securing.

3.7 Limitations of use

⚠ Danger!

Severe to fatal injuries can result if the maximum permitted loading weight is exceeded.

- 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.

3.8 Transport regulations

The products are delivered in proper packaging and must be immediately checked for externally identifiable transport damage upon receipt.

Any complaints must be sent to the carrier immediately.

- Dispose of packaging material in accordance with local/national regulations.

3.9 Disposal

The Sortimo "Aluminium Jumbo-Unit" van racking system is made of recyclable materials, such as aluminium, steel or high-quality plastics. The van racking system can be recycled at the end of its user cycle, helping to protect the environment.

- Dispose of the van racking system in accordance with local/national regulations or by returning it directly to the manufacturer.

4 Field load

Single Jumbo-Unit	100kg
Double Jumbo-Unit	100kg
Double Jumbo-Unit with tub	100kg

5 Installation versions

The following installation versions are possible:

1. Aluminium Jumbo-Unit fitted to the bodywork,
2. Aluminium Jumbo-Unit fitted on the floor cladding,
3. Aluminium Jumbo-Unit on an Aluminium Jumbo-Unit,
4. Cover plate on the Aluminium Jumbo-Unit,
5. Covering tray on the Aluminium Jumbo-Unit.

6 Preparing for installation of the Aluminium Jumbo-Unit

ⓘ	**Information!**

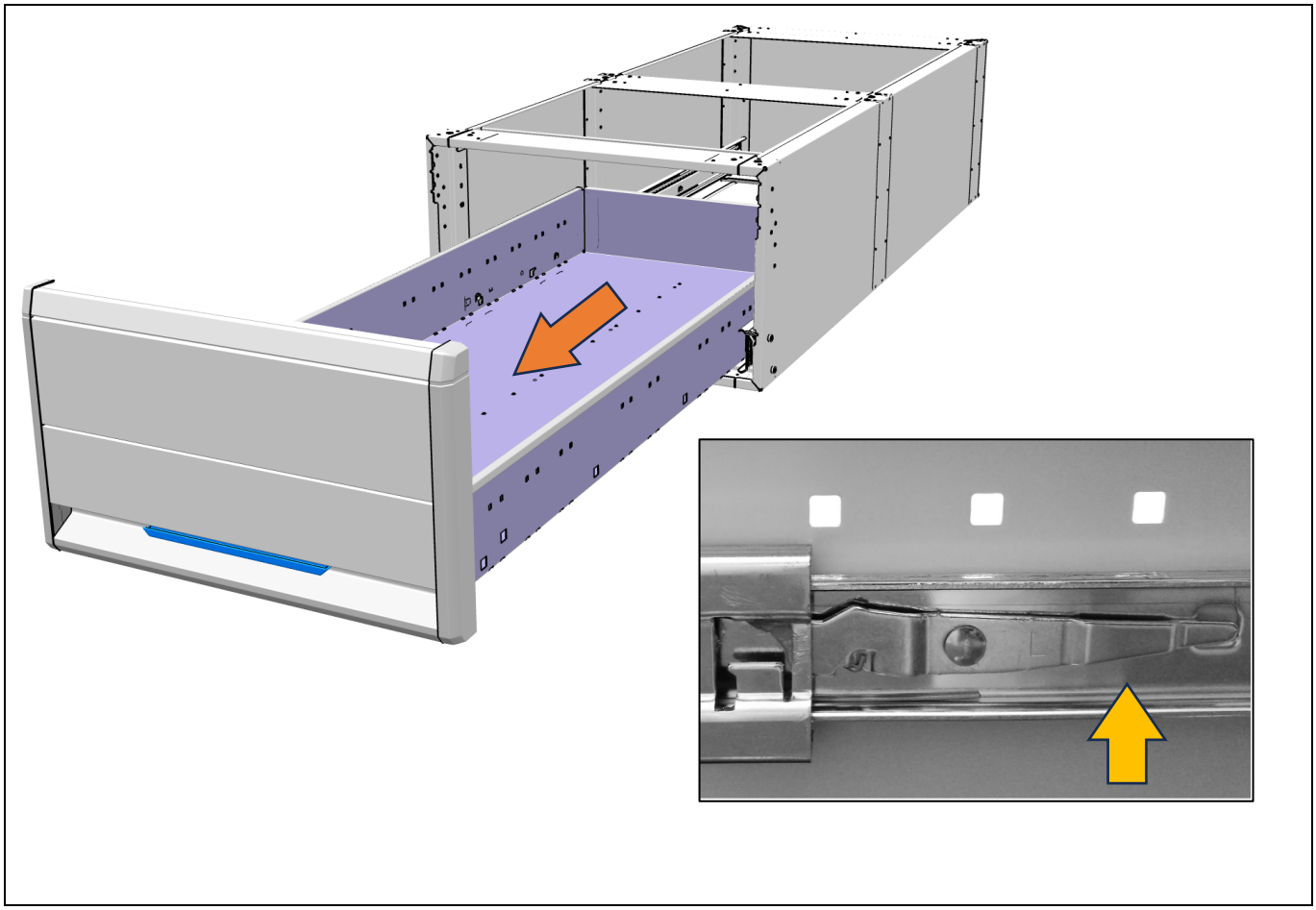
The procedure is identical with all installation versions.

Before installing the Aluminium Jumbo-Unit.

- Pull the drawer out as far as the stop,
- Unlock the drawer, by pushing the levers up on both sides and holding them there,
- Pull out the drawer,
- Push in the telescopic slides.

After installing the Aluminium Jumbo-Unit.

- Pull out the telescopic slides as far as the stop,
- Insert the drawer rails into the telescopic slides,
- Close the drawer by moving it backwards and forwards several times.



7 Aluminium Jumbo-Unit fitted to the bodywork

☞	**Important!**

Components below the vehicle floor could be damaged.

- Pay attention to the manufacturer's set-up guidelines.

⚠	**Danger!**

Note the separate health and safety guidelines for high-voltage vehicles!

- Pay attention to the manufacturer's set-up guidelines!

ⓘ	**Information!**

Only drill into the beading.

7.1 Mounting material

Designation:	Reference no.:	Quantity:
Installation kit for the Aluminium Jumbo-Unit fitted to the bodywork	1000024484	1

7.2 Tool

Drill	
Metal drill	
Drill sleeve (for centring and as a depth stop)	
Blind rivet nut mounting tool	
Torque wrench	
Screw fixing tool	
Pin	

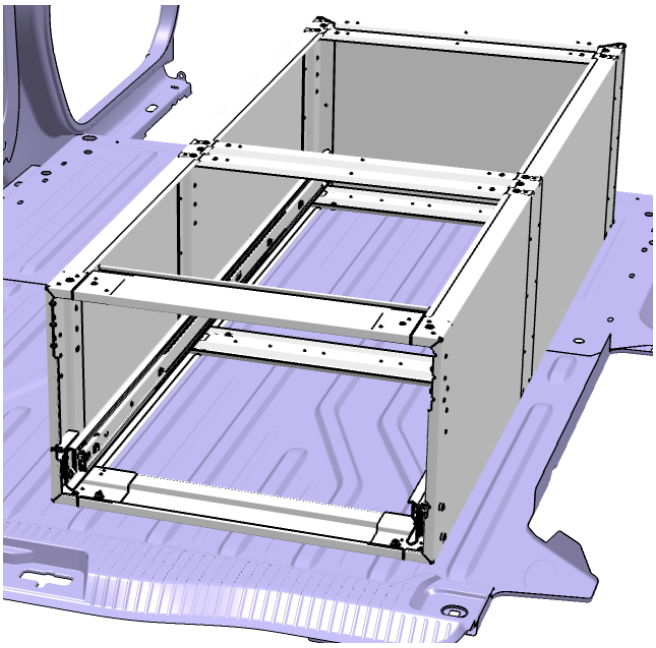
ⓘ	**Information!**

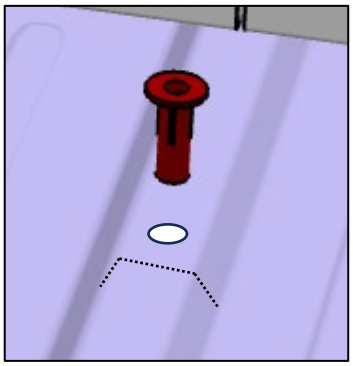
Drill holes as per the floor matrix.

7.3 Installation

M6 x 26.9	M6 x 12

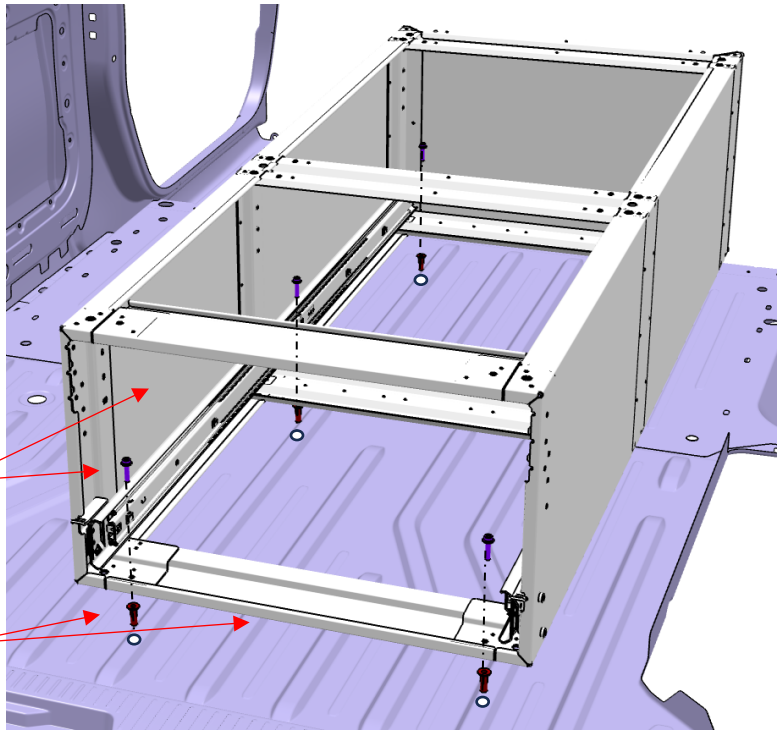
a. Position the Aluminium Jumbo-Unit at an appropriate place on the floor of the vehicle.
b. Draw the drilling holes on the floor of the vehicle (only drill into the beading).
c. Drill through Ø 9 mm holes using drill sleeves.





Beading

d. Position the M6 x 26.9 blind rivets.
e. Position the Aluminium Jumbo-Unit.
f. Use M6 x 12 screws to fasten the Aluminium Jumbo-Unit in place. **(7.5 Nm)**



8 Aluminium Jumbo-Unit fitted on the floor cladding

☞	**Important!**
Components below the vehicle floor could be damaged. • Pay attention to the manufacturer's set-up guidelines.	

8.1 Mounting material

Designation:	Reference no.:	Quantity:
Installation kit for Aluminium Jumbo-Unit fitted on the floor cladding	1000024482	1

8.2 Tool

Cordless combi-drill	
Wood drill	
Torque wrench	
Screw fixing tool	
Plastic hammer	
Pin	

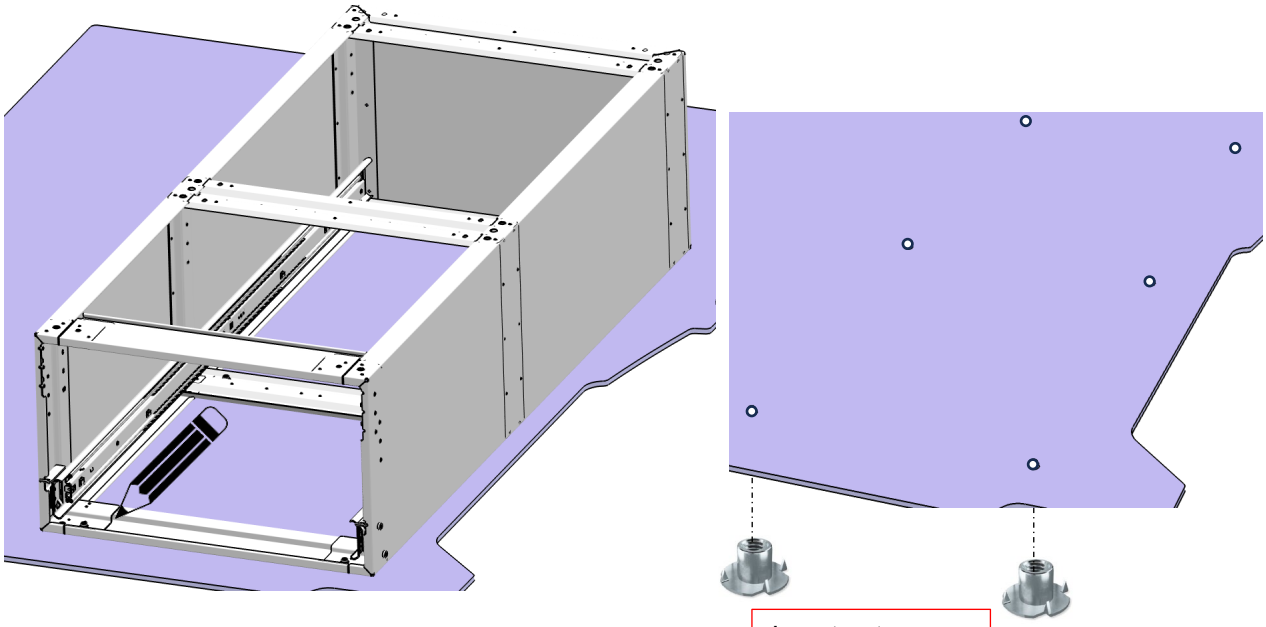
ⓘ	**Information!**
Drill holes as per the floor matrix.	

8.3 Installation

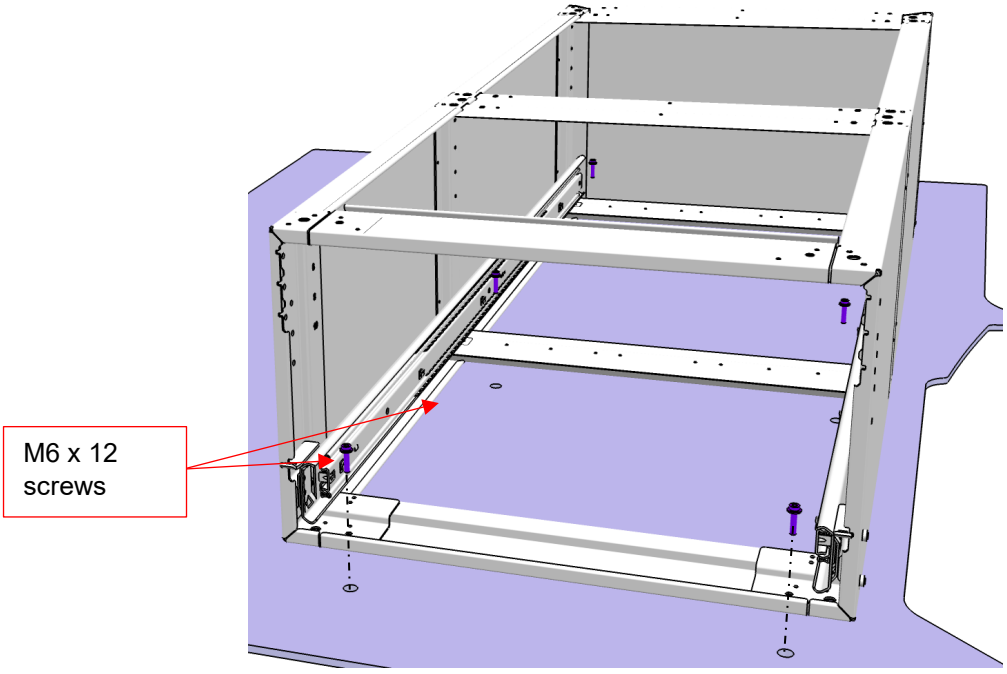
M6x9 FL19	M6 x 12

Note: Sortimo offers floor cladding that is already marked.

a. Position the Aluminium Jumbo-Unit at an appropriate place on the floor of the vehicle.
b. Draw the drill holes on the floor cladding, and remove the floor cladding.
c. Drill Ø 8 mm through holes.
d. Attach M6 FL19 insert nuts to the underside of the floor cladding using a plastic hammer.
e. Install the floor cladding.



f. Position the Aluminium Jumbo-Unit.
g. Use M6 x 12 screws to fasten the Aluminium Jumbo-Unit in place. **(7.5 Nm)**



9 Aluminium Jumbo-Unit on a New Jumbo-Unit

Danger!

If more than two Aluminium Jumbo-Units are installed on top of each other, the load capacity of the fastening elements cannot be guaranteed.

- Do not secure more than two Aluminium Jumbo-Units on top of each other.

If two Aluminium Jumbo-Units are installed on top of each other, one EcoFix must be fastened to the front and one to the rear of the Aluminium Jumbo-Unit, which are then screwed to the vehicle body.

Important!

Prerequisite:

- The Aluminium Jumbo-Unit is already fastened to the floor cladding or the floor of the vehicle.

9.1 Mounting material

Designation:	Reference no.:	Quantity:
Installation kit for the Aluminium Jumbo-Unit	1000024547	1

9.2 Tool

Drill	
Metal drill	
Drill sleeve (for centring and as a depth stop)	
Blind rivet nut mounting tool	
Torque wrench	
Screw fixing tool	

Information!

Drill holes as per the floor matrix.

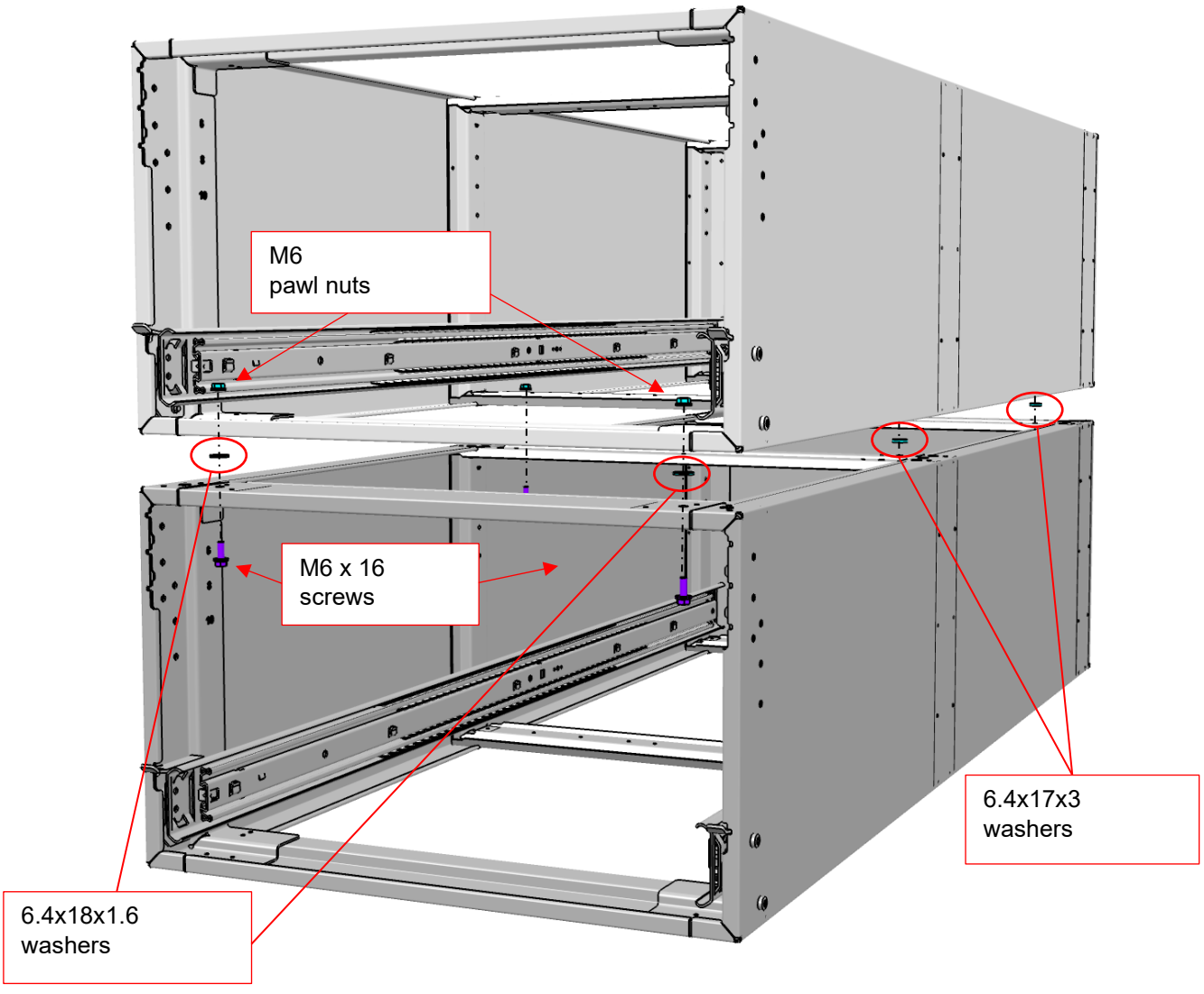
9.3 Installation

M6 x 16	M6	6.4x18x1.6	6.4x17x3
M8 Flako round shaft	M8 x 29	SSA ProFix	

a. Position the aluminium Jumbo-Units on top of each other.

b. Connect the aluminium Jumbo-Units to each other with M6 x 16 screws, washers and pawl nuts.
Note: Fasten the two front screws with 6.4x18x1.6 washers and pawl nuts.
7.5 Nm
Fasten the centre and rear screws with 6.4x17x3 washers and pawl nuts.
7.5 Nm

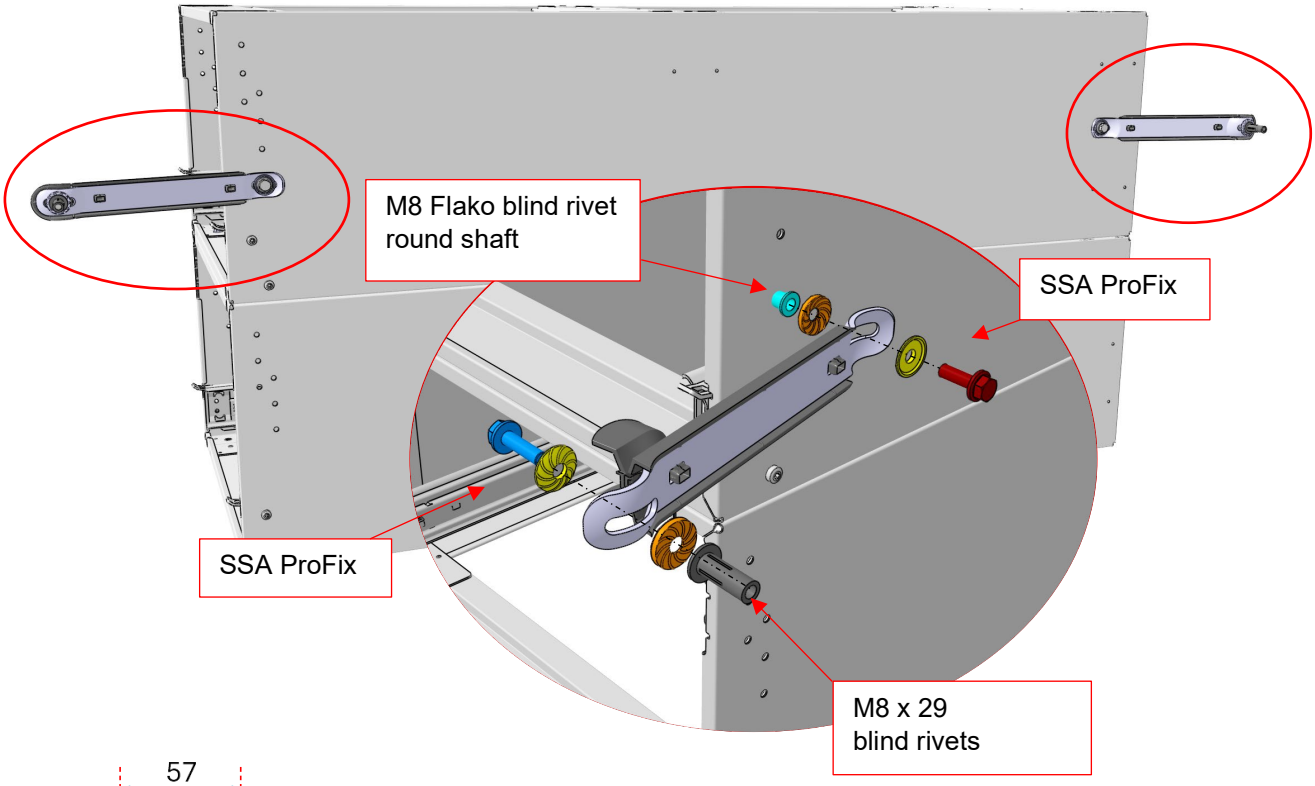
ProFix 265

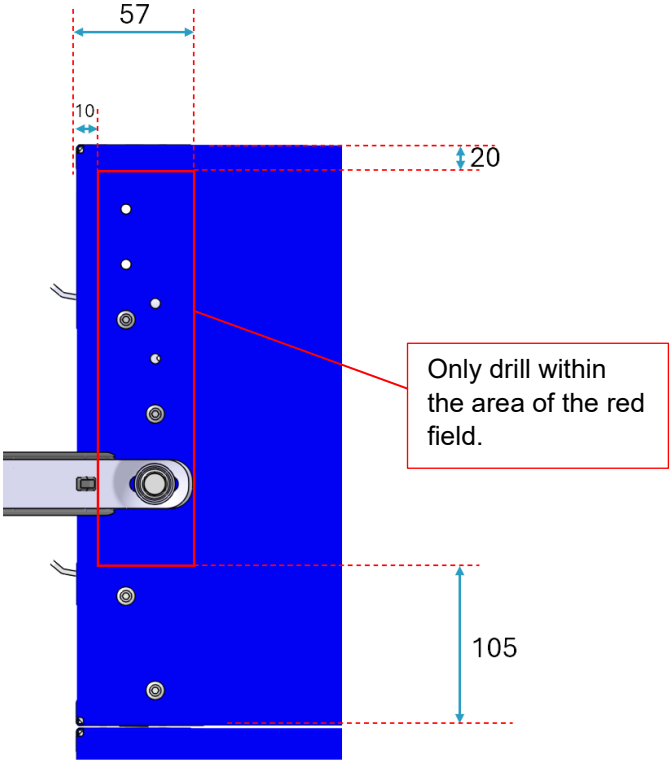


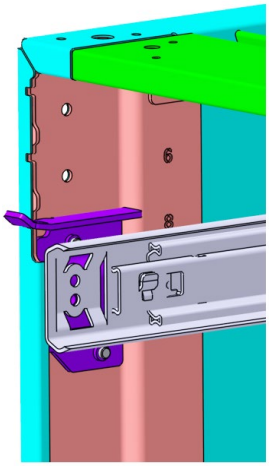
c. If two aluminium Jumbo-Units are installed on top of each other, one ProFix must be fastened to the front and one to the rear of the aluminium Jumbo-Unit, which are then screwed to the vehicle body.

d. Select the required position on the Jumbo-Unit and drill a Ø 11 mm hole, position the M8 blind rivet, and fasten the ProFix with the SSA. Note the drilling area! **20 Nm**

e. Fastening to the vehicle body, blind rivet nut M 8x29 and SSA to fasten in place. **20 Nm**







Do not drill in the area of the grid plate or the clinching points.

10 Cover plate on the Aluminium Jumbo-Unit

☞	**Important!**
Prerequisite: • The Aluminium Jumbo-Unit is already fastened to the floor cladding or the floor of the vehicle.	

10.1 Mounting material

Designation:	Reference no.:	Quantity:
Installation kit for the Aluminium Jumbo-Unit cover plate	1000024483	1

10.2 Tool

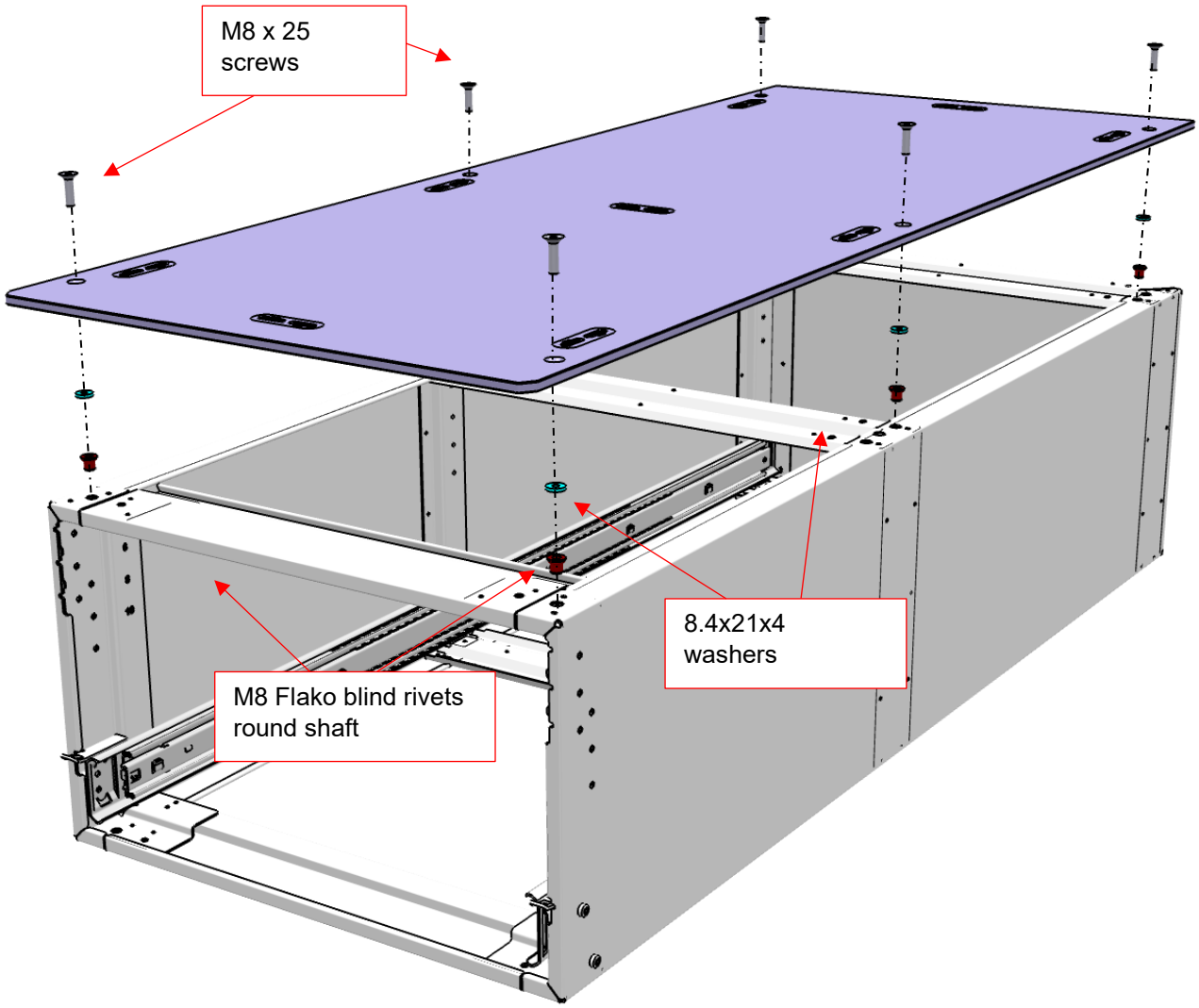
Torque wrench	
Hexagon socket screwdriver or bit insert or socket	
Blind rivet nut mounting tool	

ⓘ	**Information!**
Make the drill holes according to the retractable nut matrix to connect the cover plate.	

10.3 Installation

M8 x 25	8.4x21x4	M8 Flako round shaft

a. Position the cover plate on the Aluminium Jumbo-Unit.
b. Position the M8 blind rivets.
c. Use M8 x 25 screws and 8.4x21x4 washers to connect the cover plate and the Aluminium Jumbo-Unit. **20 Nm**



11 Covering tray on the Aluminium Jumbo-Unit

☞	**Important!**
Prerequisite: • The Aluminium Jumbo-Unit is already fastened to the floor cladding or the floor of the vehicle.	

11.1 Mounting material

Designation:	Reference no.:	Quantity:
Installation kit for the Aluminium Jumbo-Unit covering tray	1000024546	1

11.2 Tool

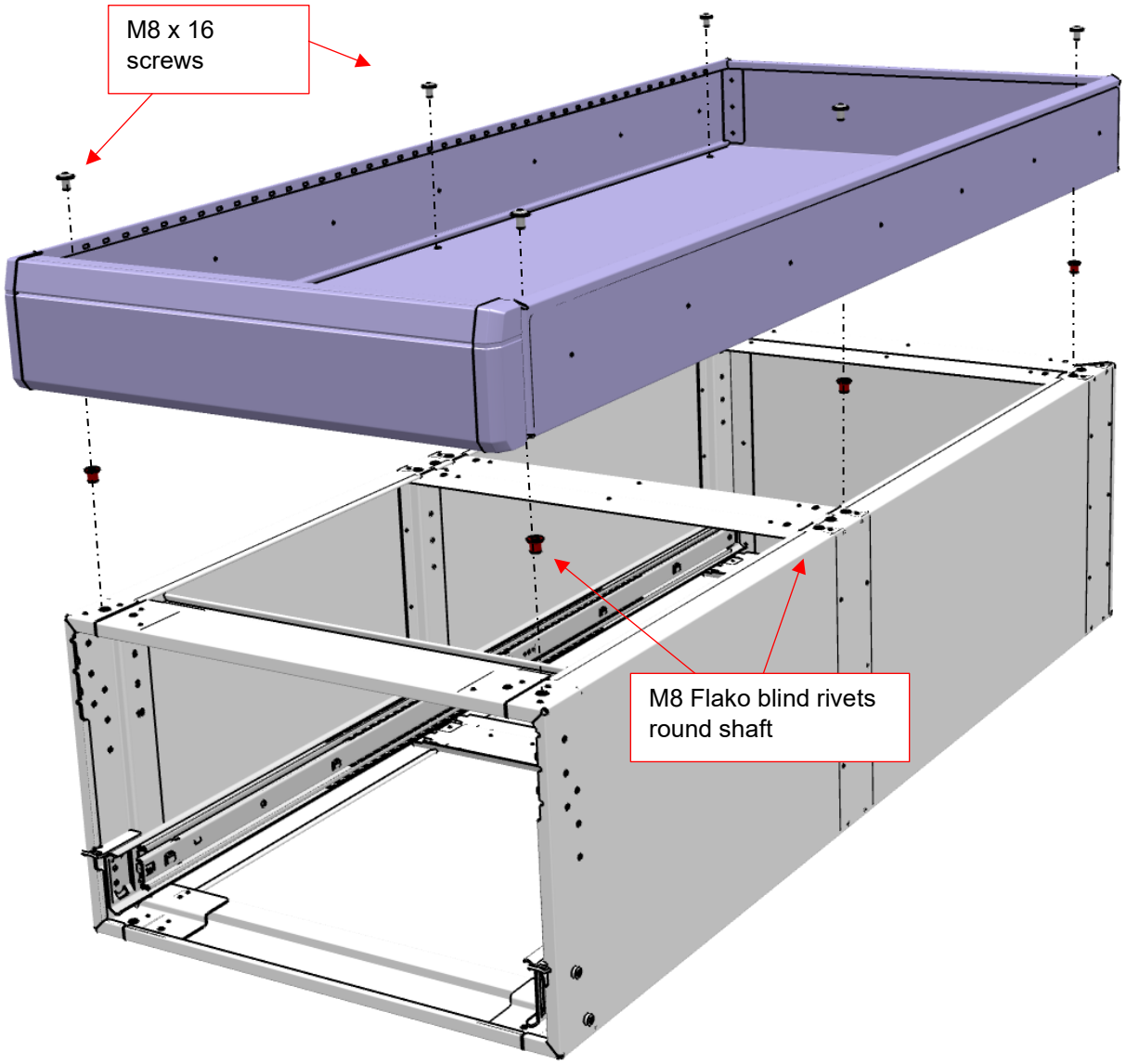
Torque wrench	
Hexagon socket screwdriver or bit insert or socket	
Blind rivet nut mounting tool	

ⓘ	**Information!**
Make the drill holes according to the retractable nut matrix to connect the cover plate.	

11.3 Installation

M8 x 16	M8 Flako round shaft

a. Position the covering tray on the Aluminium Jumbo-Unit.
b. Position the M8 blind rivets.
c. Use M8 x 16 screws to connect the cover plate and the Aluminium Jumbo-Unit. **20 Nm**



12 Raised floor Aluminium Jumbo-Unit

☞	**Important!**
Prerequisite: • The Aluminium Jumbo-Unit and the intermediate floor supports are already fastened to the floor cladding.	

12.1 Mounting material

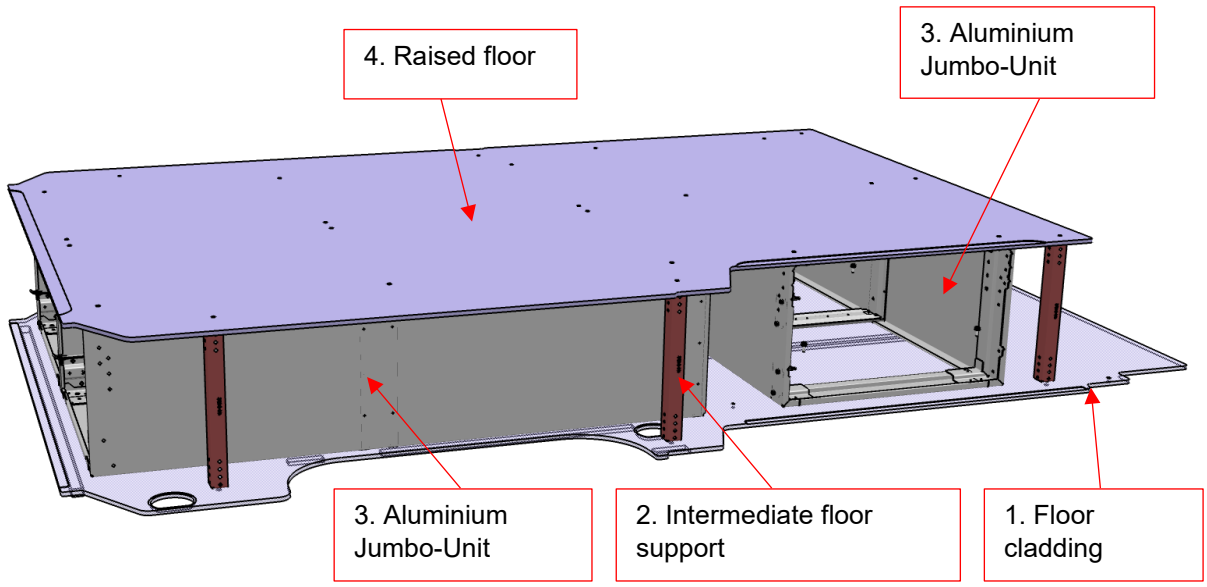
Designation:	Reference no.:	Quantity:
Aluminium Jumbo-Unit SR5 intermediate floor support 0-15	1000014350	1
Aluminium Jumbo-Unit SR5 intermediate floor support 0-21	1000014351	1
SSA intermediate floor support 15/21	1000023564	1
Installation kit for the Aluminium Jumbo-Unit SR5 KU	1000024351	1
Installation kit for the Aluminium Jumbo-Unit SR5 LA	1000024352	1

12.2 Tool

Cordless combi-drill	
Wood drill	
Torque wrench	
Screw fixing tool	
Plastic hammer	
Hexagon socket screwdriver or bit insert or socket	

12.3 Installation

Depending on the configuration, the appropriate installation kit is used to fasten the raised floor Aluminium Jumbo-Unit in the vehicle.



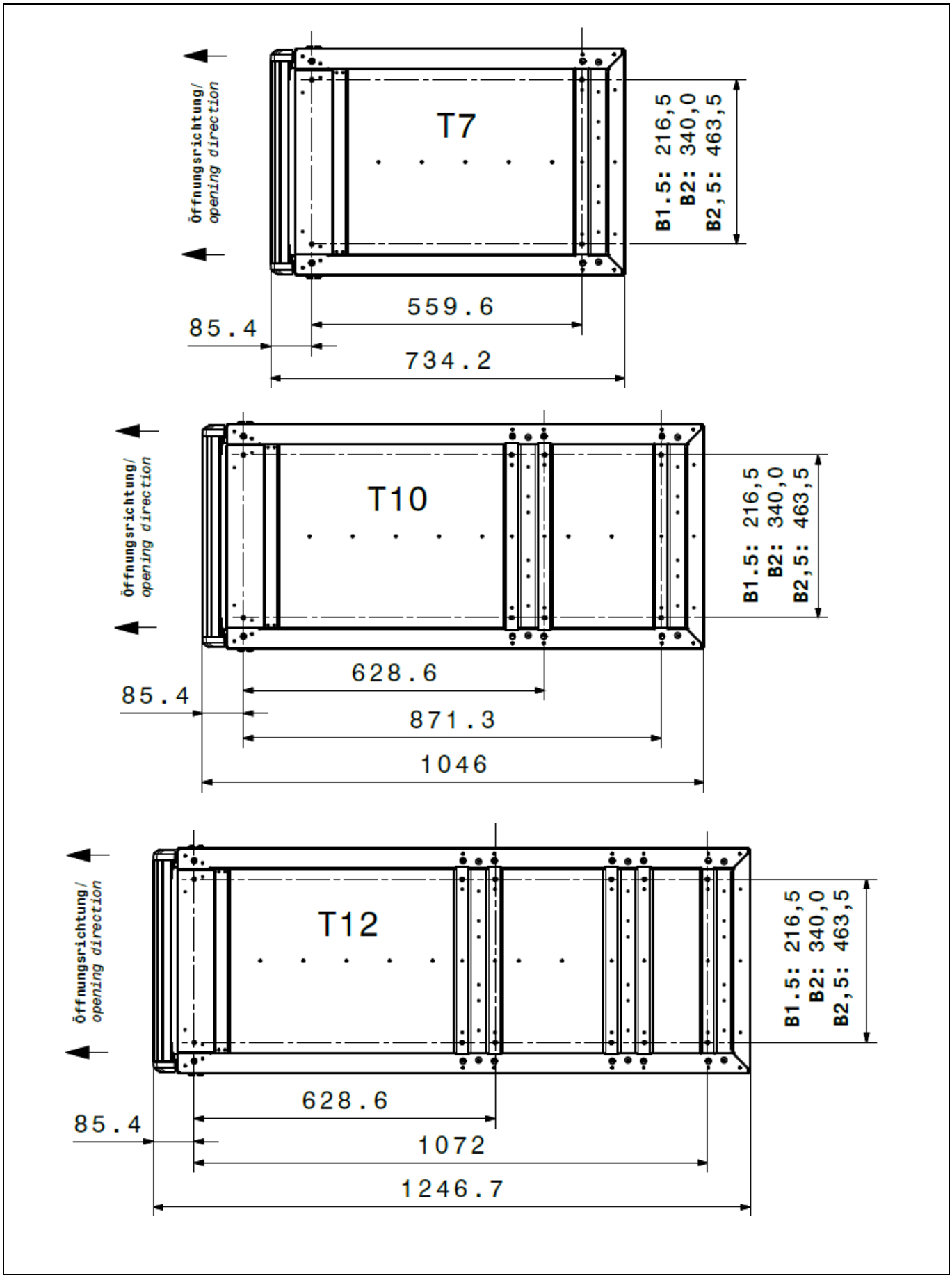
1. Floor cladding:
   The holes for fastening the Jumbo-Unit and intermediate floor supports are specified.
   Remove the floor and position the insert nut from below.
   Refit the floor.

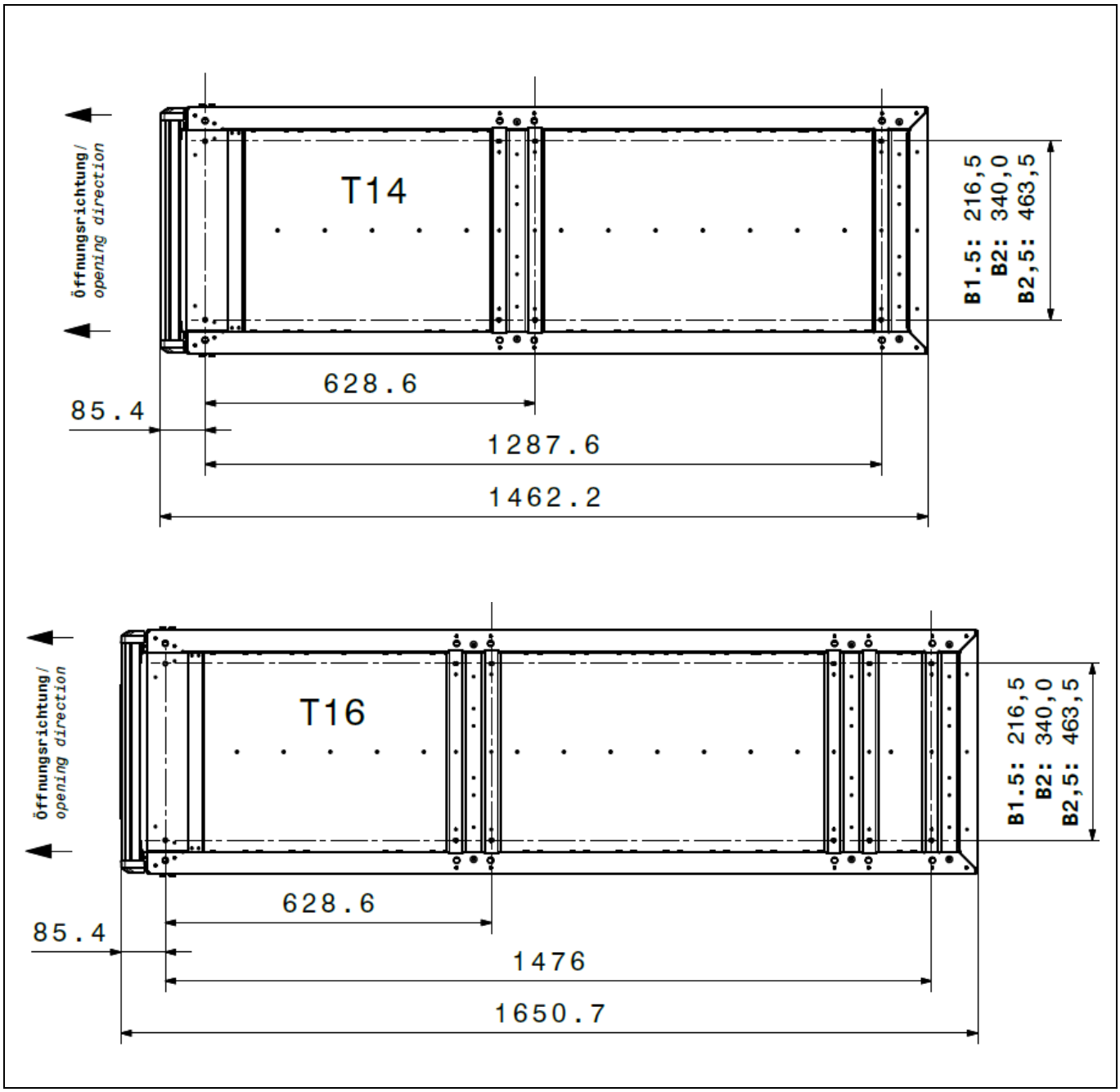
2. Intermediate floor support:
   Install the intermediate floor supports on the floor cladding as per the configuration plan.

3. Aluminium Jumbo-Unit:
   Install the Aluminium Jumbo-Unit on the floor cladding.
   Insert the Flako M8 blind rivets with round shaft into the existing holes. (Make the drill holes are per the retractable nut matrix to connect the cover plate)

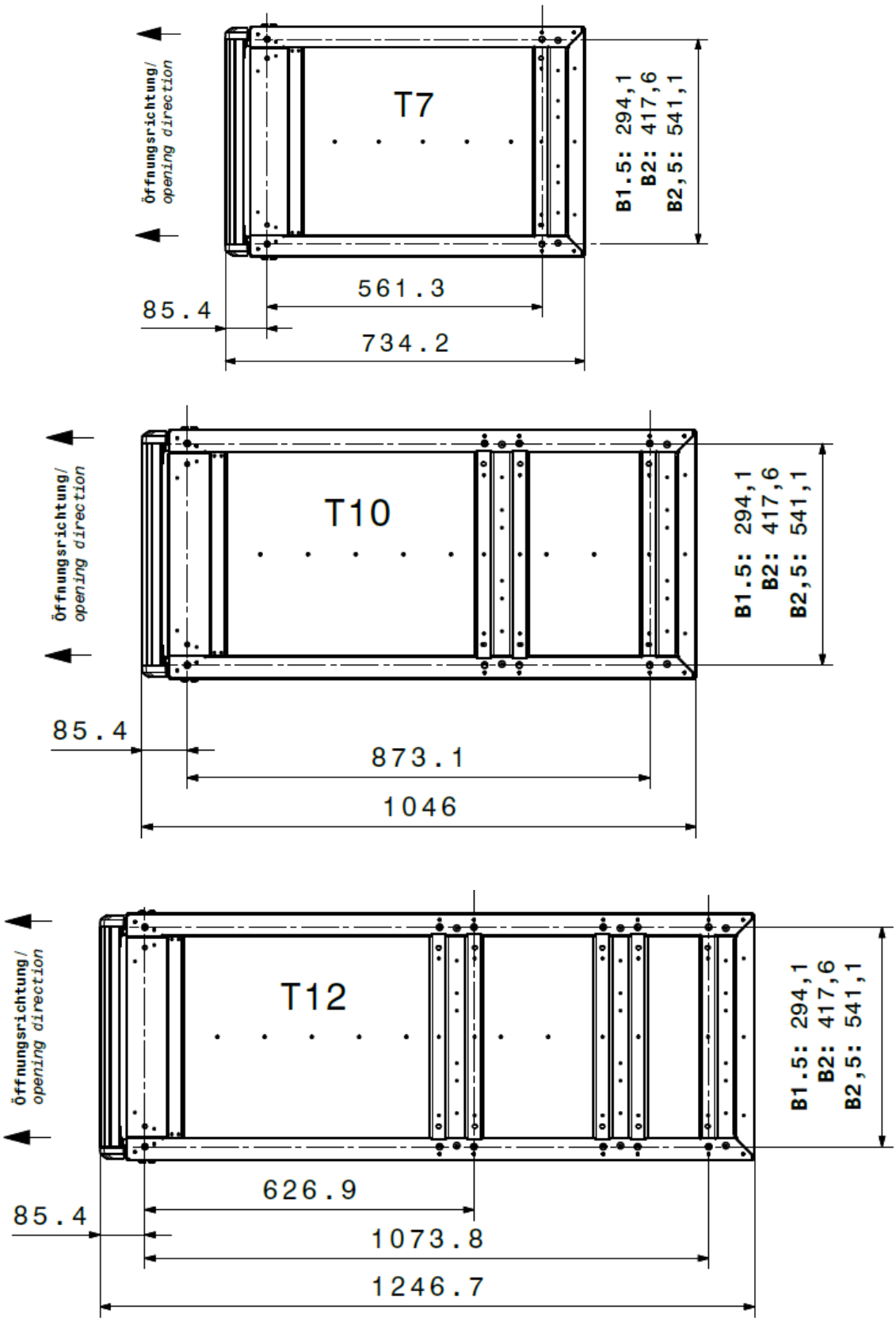
4. Raised floor:
   The holes for fastening the Jumbo-Unit and intermediate floor supports are specified.
   Screw the raised floor to the Aluminium Jumbo-Unit and intermediate floor supports.

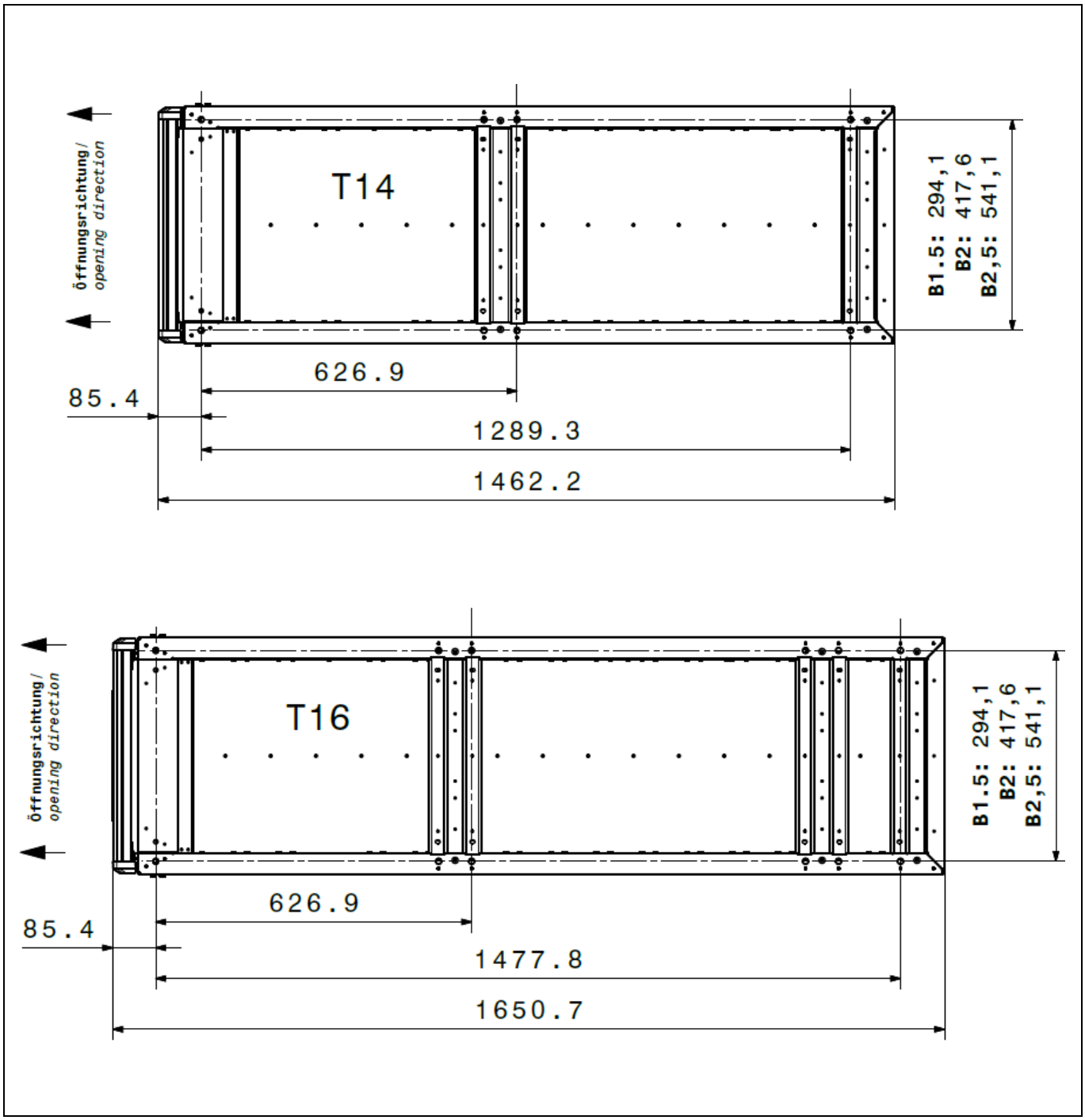
13 Floor connection matrix




Öffnungsrichtung/
opening direction
T14
B1.5: 216,5
B2: 340,0
B2,5: 463,5
628.6
85.4
1287.6
1462.2
Öffnungsrichtung/
opening direction
T16
B1.5: 216,5
B2: 340,0
B2,5: 463,5
628.6
85.4
1476
1650.7

14 Retractable nut matrix for connection of the cover plate

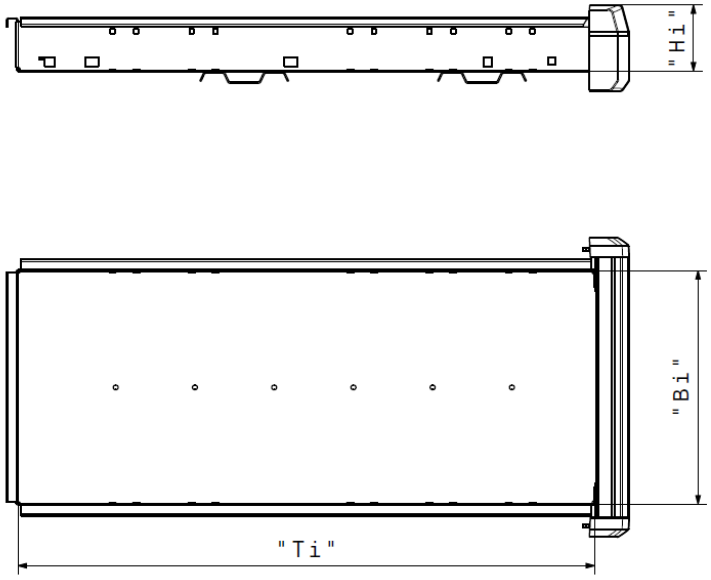



Öffnungsrichtung/
opening direction
T14
B1.5: 294,1
B2: 417,6
B2,5: 541,1
626.9
85.4
1289.3
1462.2
Öffnungsrichtung/
opening direction
T16
B1.5: 294,1
B2: 417,6
B2,5: 541,1
626.9
85.4
1477.8
1650.7

15 Usable dimensions drawer

BT-H	Bi (mm)	TI (mm)	Hi (mm)
1,57-6	265	655	73,6
1,57-8	265	655	107,6
1,57-10	265	655	141,6
1,57-12	265	655	175,6
1,5-7-14	265	655	209,6
1,5-7-20	265	655	311,6
1,510-6	264,8	970	73,6
1,510-8	264,8	970	107,6
1,510-10	264,8	970	141,6
1,510-12	264,8	970	175,6
1,5-10-14	264,8	970	209,6
1,5-10-20	264,8	970	311,6
1,512-6	264,8	1171	73,6
1,512-8	264,8	1171	107,6
1,512-10	264,8	1171	141,6
1,512-12	264,8	1171	175,6
1,5-12-14	264,8	1171	209,6
1,5-12-20	264,8	1171	311,6
1,514-8	260	1386	107,6
1,514-10	260	1386	141,6
1,514-12	260	1386	175,6
1,5-14-14	260	1386	209,6
1,5-14-20	260	1386	311,6
1,516-8	260	1575	107,6
1,516-10	260	1575	141,6
1,516-12	260	1575	175,6
1,5-16-14	260	1575	209,6
1,5-16-20	260	1575	311,6
27-6	388,5	655	73,6
27-8	388,5	655	107,6
27-10	388,5	655	141,6
27-12	388,5	655	175,6
2-7-14	388,5	655	209,6
2-7-20	388,5	655	311,6
210-6	388,3	970	73,6
210-8	388,3	970	107,6
210-10	388,3	970	141,6
210-12	388,3	970	175,6
2-10-14	388,3	970	209,6
2-10-20	388,3	970	311,6
212-6	388,3	1171	73,6
212-8	388,3	1171	107,6

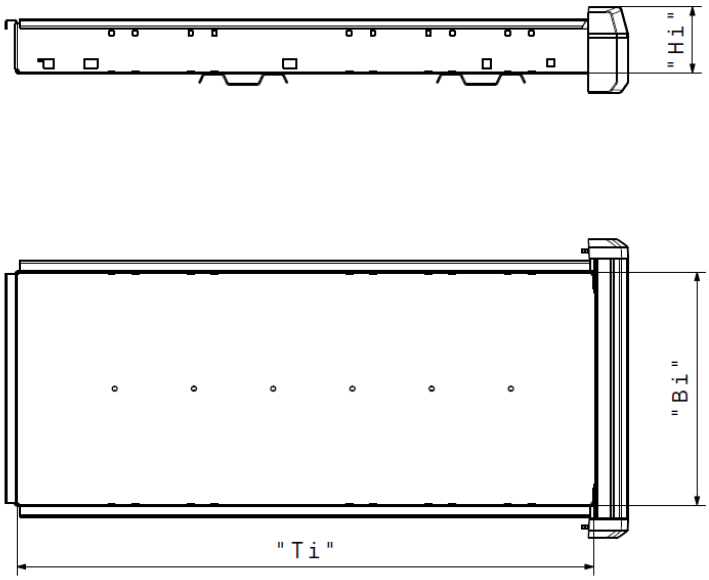
***Hi-Verlust von 13mm bei oberster Schublade/**
**Hi-height loss of 13 mm for top drawer*



x

BT-H	Bi (mm)	Tl (mm)	Hi (mm)
212-10	388,3	1171	141,6
212-12	388,3	1171	175,6
2-12-14	388,3	1171	209,6
2-12-20	388,3	1171	311,6
214-8	383,5	1386	107,6
214-10	383,5	1386	141,6
214-12	383,5	1386	175,6
2-14-14	383,5	1386	209,6
2-14-20	383,5	1386	311,6
216-8	383,5	1575	107,6
216-10	383,5	1575	141,6
216-12	383,5	1575	175,6
2-16-14	383,5	1575	209,6
2-16-20	383,5	1575	311,6
2,57-6	512	655	73,6
2,57-8	512	655	107,6
2,57-10	512	655	141,6
2,57-12	512	655	175,6
2,5-7-14	512	655	209,6
2,5-7-20	512	655	311,6
2,510-6	511,8	970	73,6
2,510-8	511,8	970	107,6
2,510-10	511,8	970	141,6
2,510-12	511,8	970	175,6
2,5-10-14	511,8	970	209,6
2,5-10-20	511,8	970	311,6
2,512-6	511,8	1171	73,6
2,512-8	511,8	1171	107,6
2,512-10	511,8	1171	141,6
2,512-12	511,8	1171	175,6
2,5-12-14	511,8	1171	209,6
2,5-12-20	511,8	1171	311,6
2,514-8	507	1386	107,6
2,514-10	507	1386	141,6
2,514-12	507	1386	175,6
2,5-14-14	507	1386	209,6
2,5-14-20	507	1386	311,6
2,516-8	507	1575	107,6
2,516-10	507	1575	141,6
2,516-12	507	1575	175,6
2,5-16-14	507	1575	209,6
2,5-16-20	507	1575	311,6

***Hi-Verlust von 13mm bei oberster Schublade/**
**Hi-height loss of 13 mm for top drawer*



x

16 Drawer combination

Drawer combination

Breite	Höhe	Tiefe 7	Tiefe 10	Tiefe 12	Tiefe 14	Tiefe 16
1,5 / 2,0 / 2,5	**H15**	H6+H8	//	//	nein	nein
		H14	//	//		

Breite	Höhe	Tiefe 7	Tiefe 10	Tiefe 12	Tiefe 14	Tiefe 16
1,5 / 2,0 / 2,5	**H21**	H6+H14	//	//	nein	nein
		H8+H12	//	//	//	//
		H10+H10	//	//	//	//
		H20	//	//	//	//

17 General View Drawers

B	Ba (mm)		T	Ta (mm)		H	Ha (mm)
1,5	356,1		7	734,2		15	255
2	479,6		10	1046		21	357
2,5	603,1		12	1246,7			
			14	1462,2			
			16	1650,7