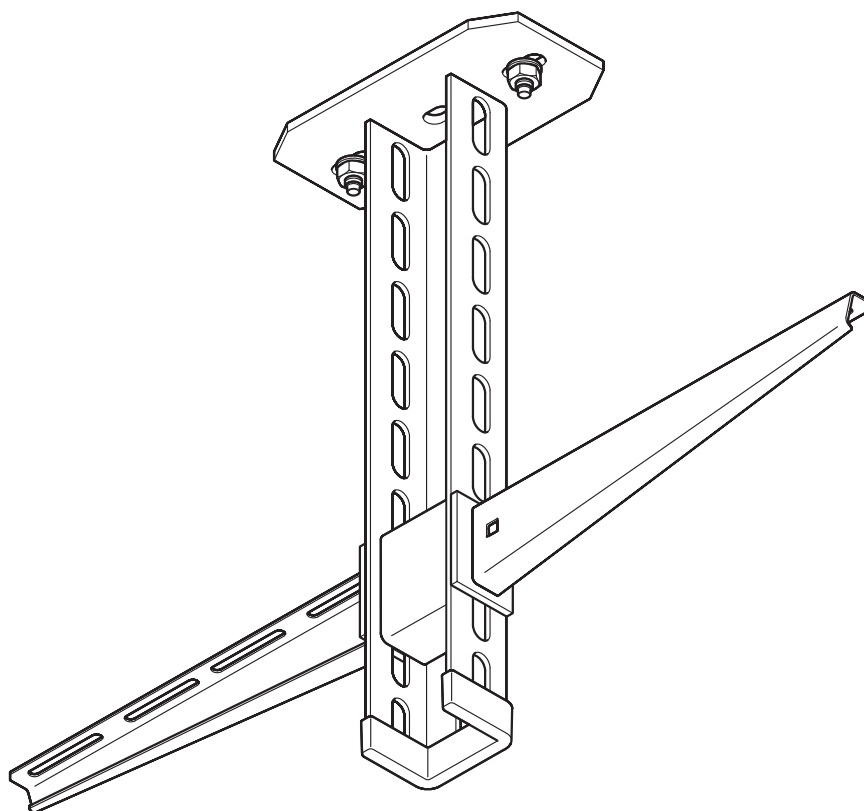


## **U support systems**

Mounting instructions



## **U support systems**

Mounting instructions

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# 1 About these instructions

## 1.1 Target group

These mounting instructions are intended for:

- Engineers and architects charged with the planning of U support systems.
- Electrically trained specialists charged with installing U support systems.

## 1.2 Relevance of these instructions

- These instructions are based on the standards valid at the time of compilation (April 2025).
- Please read the instructions carefully before starting installation. We will not accept any warranty claims for damage caused through non-observance of these instructions.
- Any images are intended merely as examples. Mounting results may look different.

## 1.3 Types of warning information

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**WARNING**

### **Type of risk!**

Shows a possibly risky situation. If the situation is not avoided, then death or serious injury may result.

---

### **Note!**

Indicates important information or assistance!

## 2 Correct use

The U support system is used for supporting and routing all types of cable trays. Depending on the material and surface design, it can be used indoors and outdoors.

The U support system is suitable for use at ambient temperatures of  $-20\text{ }^{\circ}\text{C}$  to  $+120\text{ }^{\circ}\text{C}$ . At temperatures below  $-20\text{ }^{\circ}\text{C}$ , the material will become brittle and may not be processed further.

The U support system is not designed for any other purpose than the one described here. If the U support system is used for another purpose, any liability, warranty or damage claims shall be rendered null and void.

### 2.1 Basic standards

The U support system fulfils the requirements of IEC 61537:2006 – Cable management – Cable tray systems and cable ladder systems.

## 3 Safety

### 3.1 General safety information

Observe the following general safety information on handling the U support system:

- Follow applicable working, accident and environmental protection regulations.
- The U support system should be included in the protective measures and the equipotential bonding.
- Ensure electrical conductivity of plastic-coated components. Remove coating from contact points of components.
- Have the inclusion in the equipotential bonding of the overall system performed by specialist personnel.
- Design the support system according to the loads to be expected.
- Do not exceed the maximum support load of the U support system.
- During mounting, take the structure of the wall and ceiling into account.

### 3.2 Personal protective equipment

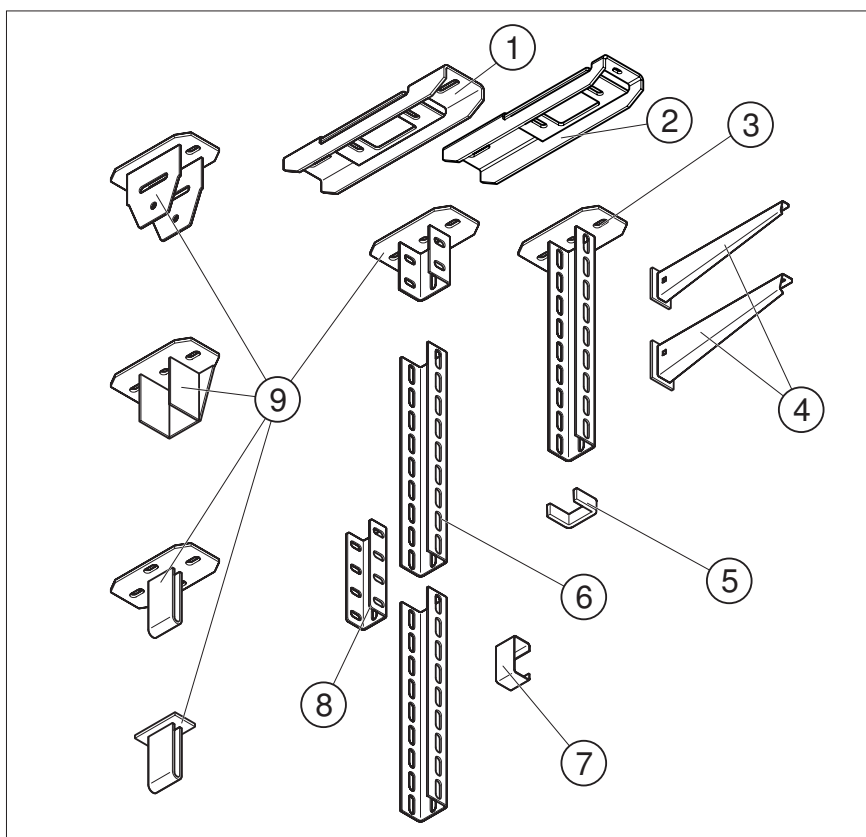
- During all mechanical mounting work, wear personal protective equipment:
  - Gloves
  - Eye protection
  - Head protection

## 4 System description

U support systems for cable support structures comprise the light-duty US 3 system, the medium-duty US 5 system and the heavy-duty US 7 system. The different systems are designed for light, medium-weight and heavy loads. The U support systems can be used as ceiling suspension, floor stand-off or as construction profiles. The systems comprise U hanging supports, wall and support brackets, head plates, U supports and U support connectors.

**Note!** The three variants are mounted in an identical manner. The mounting of the U support system US 7 is shown as an example.

### 4.1 System components



**Fig. 1:** System components, US 7

|   | Component                        | Function                                                                         |
|---|----------------------------------|----------------------------------------------------------------------------------|
| ① | Adapter head plate, symmetrical  | Increase in the load capacity of the overall system                              |
| ② | Adapter head plate, asymmetrical | Increase in the load capacity of the overall system                              |
| ③ | U hanging support                | Mounting on horizontal concrete ceiling, acceptance of support brackets          |
| ④ | Support bracket                  | Mounting on U support and U hanging support, support for cable tray/cable ladder |
| ⑤ | End cap                          | End cover of U hanging support and U support                                     |
| ⑥ | U support                        | Extension of U hanging support, construction of traverses                        |

|   | Component           | Function                                               |
|---|---------------------|--------------------------------------------------------|
| ⑦ | Spacer              | Stabilisation of the profiles                          |
| ⑧ | U support connector | Connection of U supports                               |
| ⑨ | Head plates         | Mounting on with U support horizontal concrete ceiling |

Tab. 1: System components

## 4.2 Accessories

### 4.2.1 Earthing terminal

Depending on the mounting situation, equipotential bonding with the overall system may be required, see IEC 61537:2006.

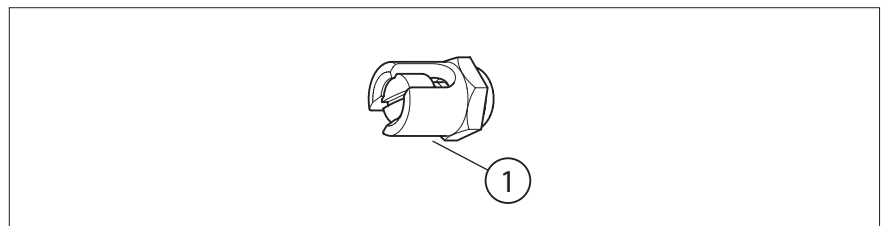


Fig. 2: Earthing terminal

① Earthing terminal

### 4.2.2 Fastening material

Depending on the structure of the mounting substrate, use suitable fastening materials in the wall or ceiling.

OBO offers the following fastening systems:

| Substrate | Fastening material type                                |
|-----------|--------------------------------------------------------|
| Concrete  | N, N-K, BZ, BZ3, BZ-U, BZ-IG, SZ-B, ES, Easy, MMS-plus |
| Masonry   | MMS-plus, HMS-KS, injection tie                        |

The characteristic load values for the fastening anchors can be found in the appropriate tables and the approved load capacity of the individual system components in the appropriate load diagrams in the current catalogue.

[https://api.production.obo.digital/v1/asset/AWFb358OayN9qEKysugeaE/Industrial installations Cable support systems.pdf](https://api.production.obo.digital/v1/asset/AWFb358OayN9qEKysugeaE/Industrial%20installations%20Cable%20support%20systems.pdf)

### 5 Mounting system components

---



#### WARNING

#### **Danger due to high working height!**

When installing at height, there is a risk of falling and/or that parts may fall. Falls and/or falling components can cause serious injuries.

- Do not work alone.
  - Use fall protection as required.
  - Secure the area below the installation against access.
  - Wear safety shoes and a helmet.
- 

#### **Note!**

Tighten bolts and nuts with the torque to be complied with.  
Torques and tightness classes of the supplied bolts:

<api.production.obo.digital/v1/asset/6nDkrQCUKh3AUArZZT8jBU/Befestigungsmaterial.pdf>

#### 5.1 Mounting fastening material

In these mounting instructions, only one system with bolt tie, washer and nut will be shown with regard to wall and ceiling mounting. A combination nut can be used as an alternative to the washer and nut.

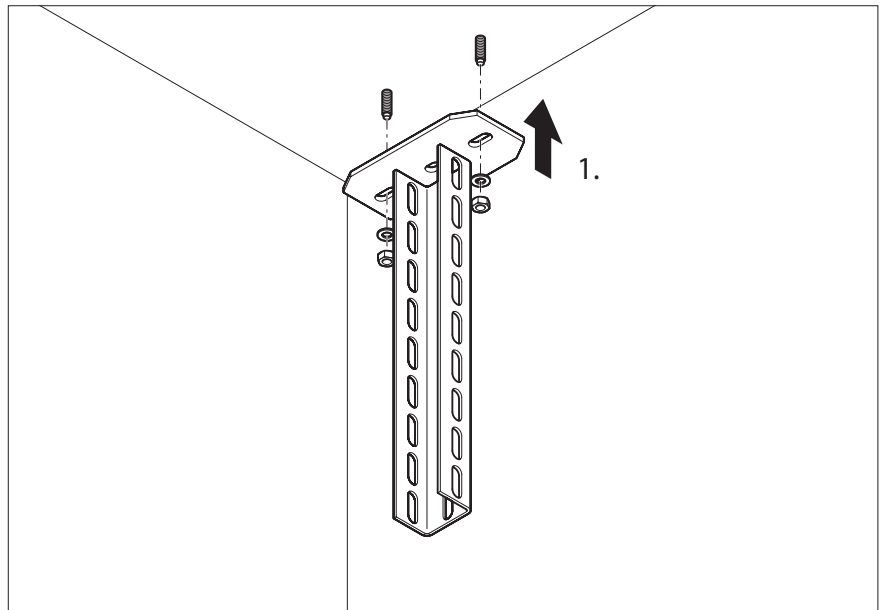
#### **Note!**

To prevent loosening of bolt connections through vibrations, screw locks can be attached. Possible screw locks are nuts with an internal plastic ring or a screw locking adhesive, e.g. Loctite (item no. 2362940).

1. Drill the anchor hole.
2. Blow out the anchor hole.
3. Knock in the bolt tie.
4. Push the system onto the bolt thread and fix with washers and nuts or combination nuts.

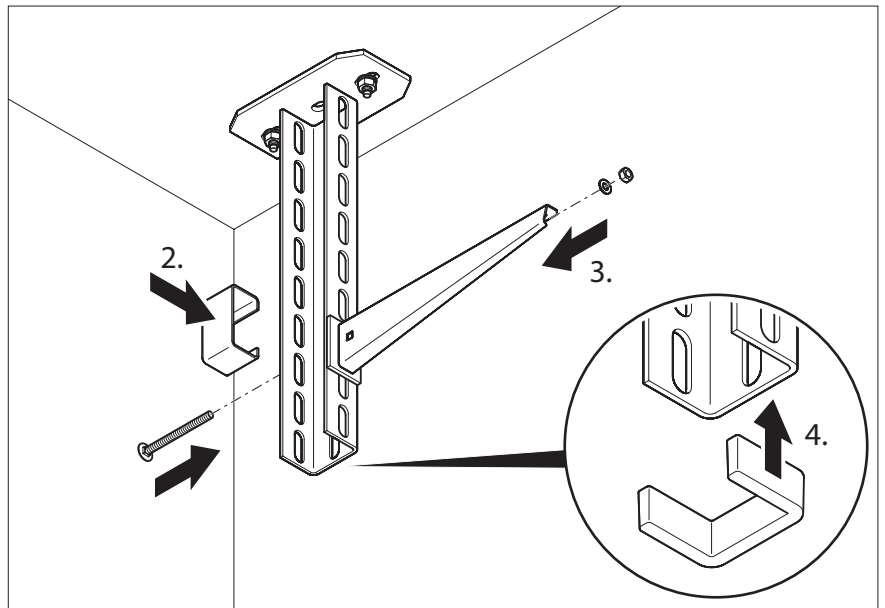
## 5.2 Mounting the U hanging support

Example: In combination with wall and support brackets and spacer.



**Fig. 3:** Mounting the U hanging support

1. Place the U hanging support on the bolt thread and screw together with washers and nuts.

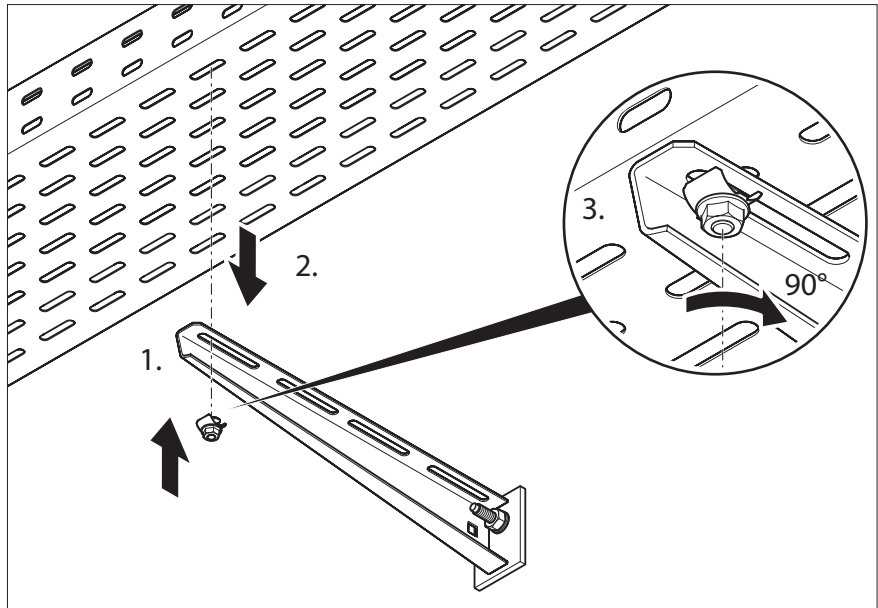


**Fig. 4:** Mounting the spacer and wall/support brackets

2. Insert the spacer into the U hanging support.
3. Position the wall/support bracket by the U hanging support and screw tight with the hexagonal bolt, washer and nut.
4. Attach the end cap.

### 5.2.1 Mounting the quick fastening

The quick fastening can be used to fasten cable trays on brackets.



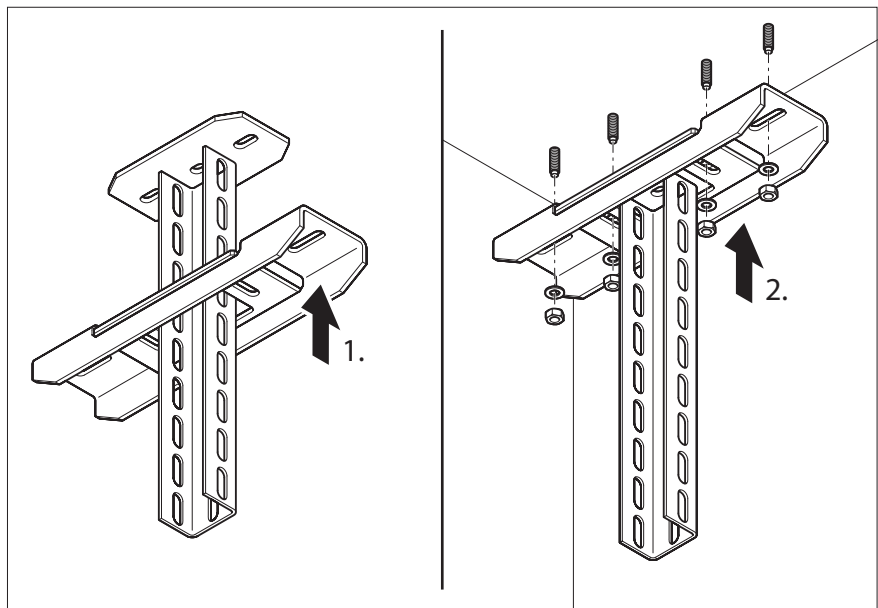
**Fig. 5:** Mounting the quick fastening

1. Turn the quick fastening into the bracket.
2. Place the cable tray on the quick fastening.
3. Fix the cable tray by turning the quick fastening through 90°.

### 5.3 Mounting the adapter head plate

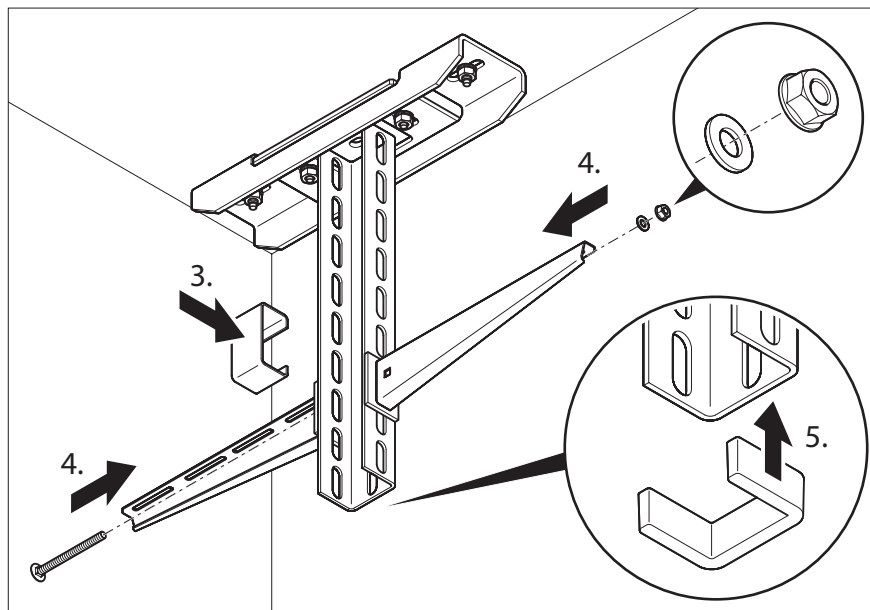
Example: In combination with hanging support and two wall and support brackets.

**Note!** The symmetrical adapter head plate is installed for mounting two wall and support brackets. If a wall and support bracket is only to be mounted on one side of the U hanging support, installation of the asymmetrical adapter head plate is sufficient.



**Fig. 6:** Mounting the adapter head plate

1. Push the head plate over the U hanging support.
2. Place the mounted unit on the bolt thread and screw together with washers and nuts.

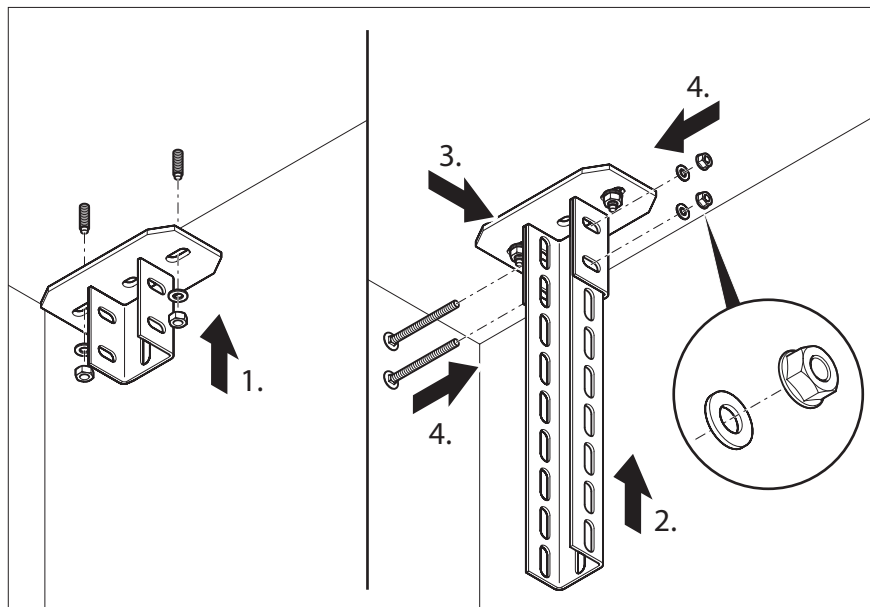


**Fig. 7:** Mounting the wall/support bracket

3. Insert the spacer into the U hanging support.
4. Screw two wall/support brackets to the U hanging support with a bolt and combination nut.
5. Attach the end cap.

## 5.4 Mounting the head plate

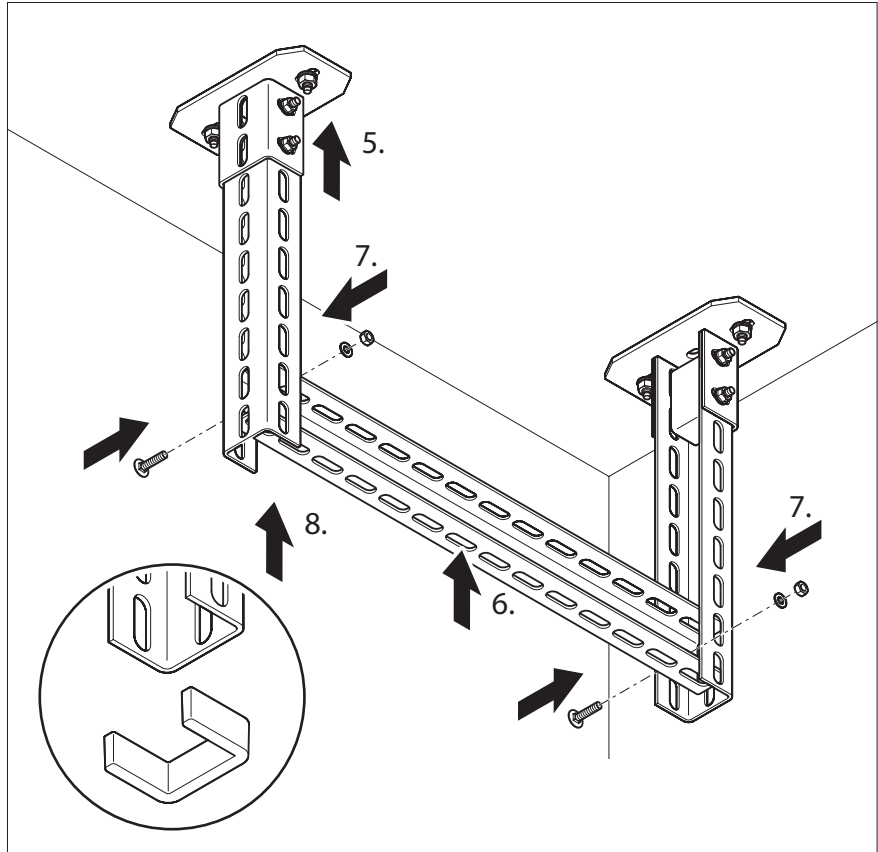
Example: In combination with U supports, mounted as a traverse.



**Fig. 8:** Mounting the head plate with U support

1. Place the head plate on the bolt thread and screw together with washers and nuts.
2. Insert the U support in the head plate.
3. Insert the spacer in the U support.

4. Screw the U support and spacer together with the head plate with bolts, washers and nuts.

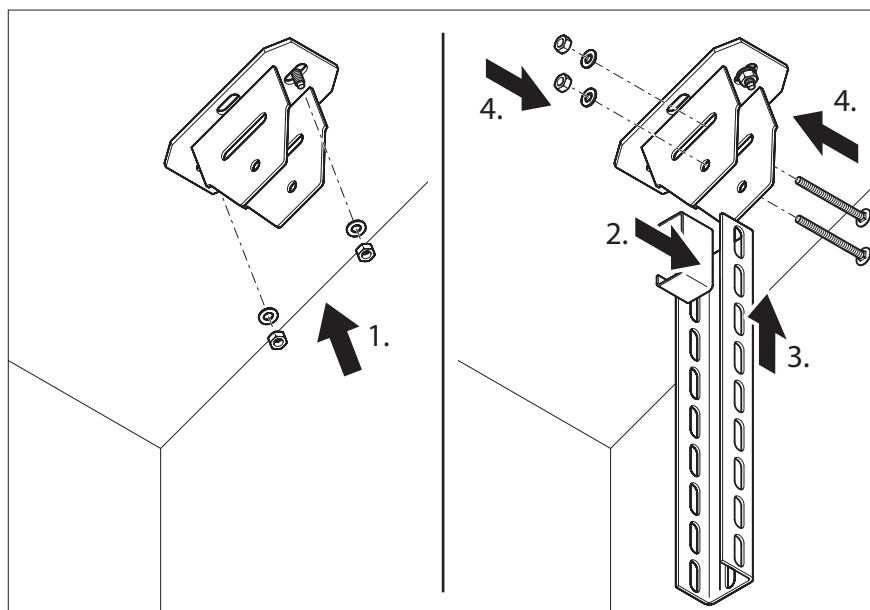


**Fig. 9:** Mounting the traverse

5. Mount the head plate with U support at a necessary spacing.
6. Shorten the U support as a transverse profile to the necessary length and push the U profile between U supports.
7. Connect the UP supports and U profile with bolts, washers and nuts.
8. Attach the end caps.

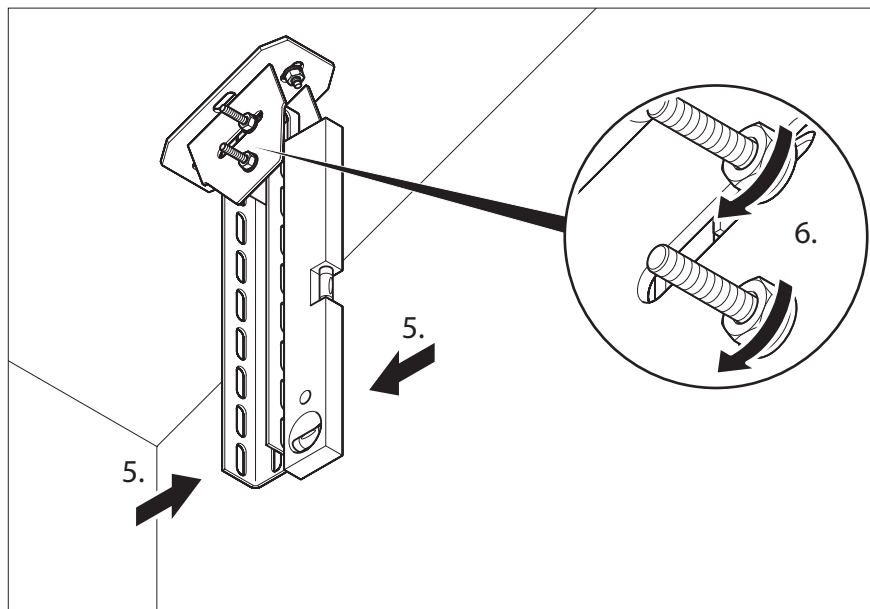
## 5.5 Mounting the variable head plate

Example: In combination with a U support and spacer.



**Fig. 10:** Mounting the variable head plate with U support

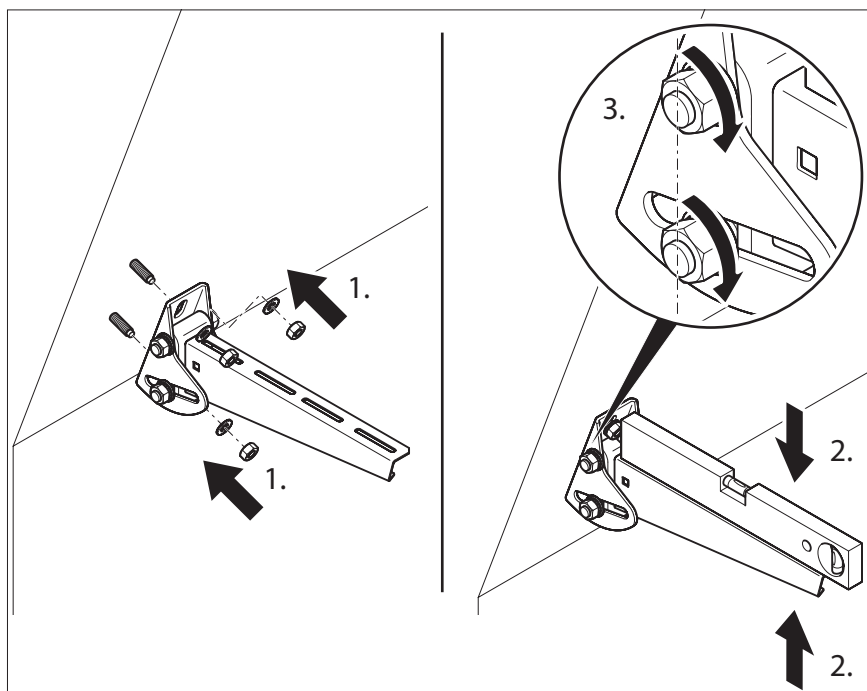
1. Place the variable head plate on the bolt thread and screw together with washers and nuts.
2. Insert the spacer in the U support.
3. Insert the spacer with U support in the variable head plate.
4. Secure the spacer, U support and variable head plate with bolts, washers and nuts.



**Fig. 11:** Aligning the U support vertically

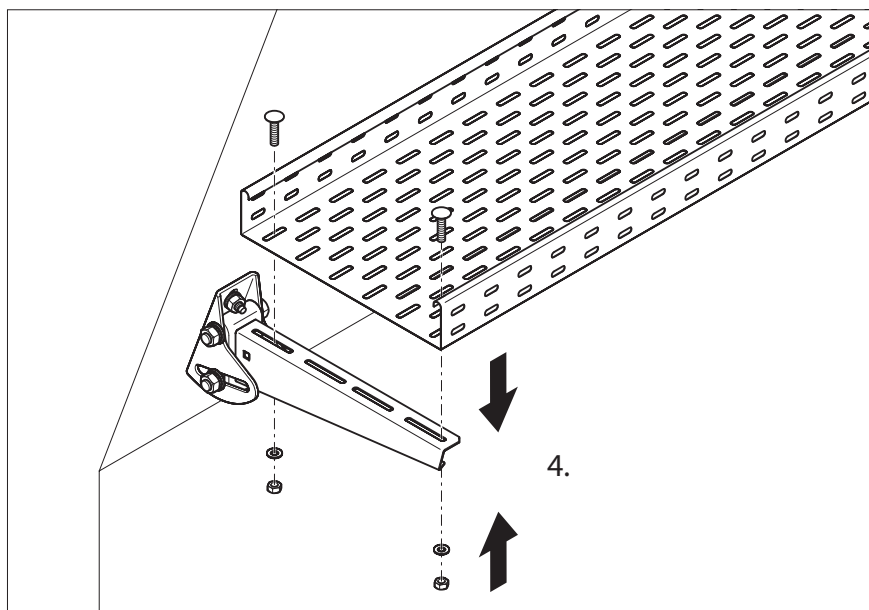
5. Align the U support vertically.
6. Screw the U support tight.

## 5.6 Mounting the variable wall bracket



**Fig. 12:** Mounting the variable wall bracket

1. Place the variable wall bracket on the bolt thread and secure it with washers and nuts.
2. Align the variable wall bracket horizontally over the slot.
3. Screw the variable wall bracket tight.



**Fig. 13:** Mounting the cable tray on the variable wall bracket

4. Attach the cable tray and screw it tight with bolts, washers and nuts.

## 6 Creating equipotential bonding



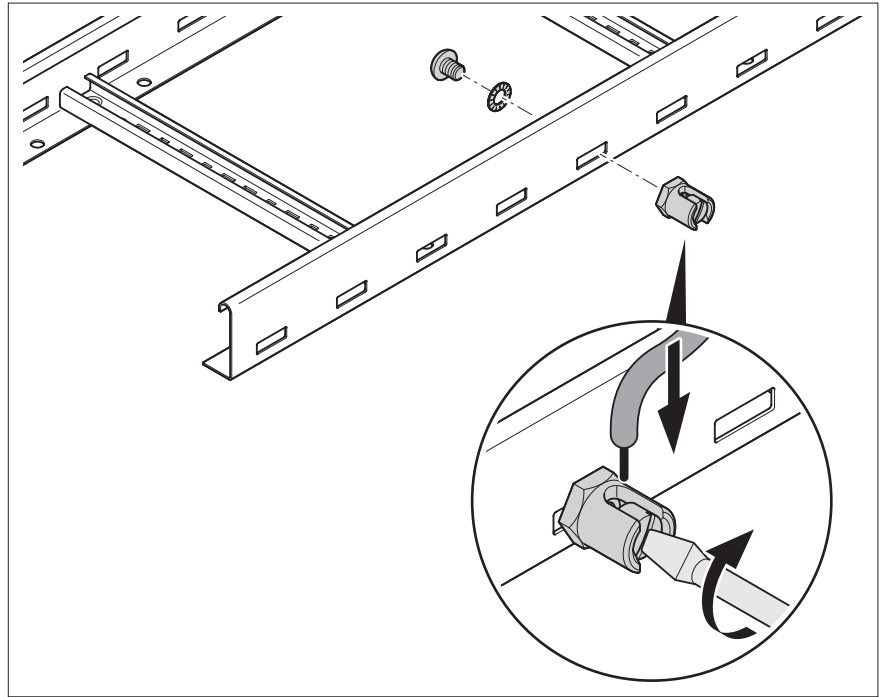
### WARNING

#### Risk of electric shock!

A lack of equipotential bonding can, in cases of damage, mean that parts of the U support system may be energised. If contact creates a conductive connection, this can lead to fatal injuries.

– Creating equipotential bonding.

The equipotential bonding is created on the cable tray or cable ladder mounted on the support structure.



**Fig. 14:** Mounting the earthing terminal

1. If existent, remove the plastic coating from the contact points between the earthing terminal and the component.
2. Screw the earthing terminal to the component.
3. Electrically connect the earthing terminal to the overall equipotential bonding.

## 7 Maintenance of U support systems

The stability and function of the U support systems can be impaired by external influences, such as damage or machine vibrations.

Tighten loose connection elements and, if necessary, apply a screw lock using nuts with an internal plastic ring or a screw locking adhesive. Replace damaged parts. Check regularly to see if the connection to the overall equipotential bonding is still intact.

### 8 Dismantling U support systems

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#### **WARNING**

#### **Danger due to high working height!**

When installing at height, there is a risk of falling and/or that parts may fall. Falls and/or falling components can cause serious injuries.

- Do not work alone.
  - Use fall protection as required.
  - Secure the area below the installation against access.
  - Wear safety shoes and a helmet.
- 

Dismantling of all the elements of the U support systems takes place in the reverse order to mounting.

### 9 Disposing of U support systems

- Residual metal: As scrap metal
- Packaging: As household waste

Comply with the local waste disposal regulations.

## 10 Technical data

| Designation          | Type             | Dimensions, mm   | Material | Item no. |
|----------------------|------------------|------------------|----------|----------|
| US 3 hanging support | US 3 K 20 FT     | 130 x 200 x 30   | FT       | 6342351  |
| US 3 hanging support | US 3 K 30 FT     | 130 x 300 x 30   | FT       | 6342353  |
| US 3 hanging support | US 3 K 40 FT     | 130 x 400 x 30   | FT       | 6342355  |
| US 3 hanging support | US 3 K 50 FT     | 130 x 500 x 30   | FT       | 6342357  |
| US 3 hanging support | US 3 K 60 FT     | 130 x 600 x 30   | FT       | 6342359  |
| US 3 hanging support | US 3 K 70 FT     | 130 x 700 x 30   | FT       | 6342362  |
| US 3 hanging support | US 3 K 80 FT     | 130 x 800 x 30   | FT       | 6342364  |
| US 3 hanging support | US 3 K 90 FT     | 130 x 900 x 30   | FT       | 6342366  |
| US 3 hanging support | US 3 K 100 FT    | 130 x 1,000 x 30 | FT       | 6342368  |
| US 3 hanging support | US 3 K 110 FT    | 130 x 1,100 x 30 | FT       | 6342370  |
| US 3 hanging support | US 3 K 120 FT    | 130 x 1,200 x 30 | FT       | 6342372  |
| US 3 hanging support | US 3 K 20 FTK SW | 130 x 200 x 30   | FTK      | 7265690  |
| US 3 hanging support | US 3 K 30 FTK SW | 130 x 300 x 30   | FTK      | 7265693  |
| US 3 hanging support | US 3 K 40 FTK SW | 130 x 400 x 30   | FTK      | 7265696  |
| US 3 hanging support | US 3 K 50 FTK SW | 130 x 500 x 30   | FTK      | 7265740  |
| US 3 hanging support | US 3 K 20 A2     | 130 x 200 x 30   | A2       | 6342401  |
| US 3 hanging support | US 3 K 30 A2     | 130 x 300 x 30   | A2       | 6342403  |
| US 3 hanging support | US 3 K 40 A2     | 130 x 400 x 30   | A2       | 6342405  |
| US 3 hanging support | US 3 K 50 A2     | 130 x 500 x 30   | A2       | 6342407  |
| US 3 hanging support | US 3 K 60 A2     | 130 x 600 x 30   | A2       | 6342409  |
| US 3 hanging support | US 3 K 70 A2     | 130 x 700 x 30   | A2       | 6342411  |
| US 3 hanging support | US 3 K 80 A2     | 130 x 800 x 30   | A2       | 6342413  |
| US 3 hanging support | US 3 K 90 A2     | 130 x 900 x 30   | A2       | 6342415  |
| US 3 hanging support | US 3 K 100 A2    | 130 x 1,000 x 30 | A2       | 6342417  |
| US 3 hanging support | US 3 K 20 A4     | 130 x 200 x 30   | A4       | 6342375  |
| US 3 hanging support | US 3 K 30 A4     | 130 x 300 x 30   | A4       | 6342530  |
| US 3 hanging support | US 3 K 40 A4     | 130 x 400 x 30   | A4       | 6342379  |
| US 3 hanging support | US 3 K 50 A4     | 130 x 500 x 30   | A4       | 6342381  |
| US 3 hanging support | US 3 K 60 A4     | 130 x 600 x 30   | A4       | 6342389  |
| US 3 hanging support | US 3 K 70 A4     | 130 x 700 x 30   | A4       | 6342391  |
| US 3 hanging support | US 3 K 80 A4     | 130 x 800 x 30   | A4       | 6342393  |
| US 3 hanging support | US 3 K 90 A4     | 130 x 900 x 30   | A4       | 6342395  |
| US 3 hanging support | US 3 K 100 A4    | 130 x 1,000 x 30 | A4       | 6342397  |
| US 3 hanging support | US 3 K 110 A4    | 130 x 1,100 x 30 | A4       | 6342396  |
| US 3 hanging support | US 3 K 120 A4    | 130 x 1,200 x 30 | A4       | 6342398  |
| US 3 support         | US 3 20 FS       | 50 x 200 x 30    | FS       | 6342302  |
| US 3 support         | US 3 30 FS       | 50 x 300 x 30    | FS       | 6342304  |
| US 3 support         | US 3 40 FS       | 50 x 400 x 30    | FS       | 6342306  |
| US 3 support         | US 3 50 FS       | 50 x 500 x 30    | FS       | 6342308  |
| US 3 support         | US 3 60 FS       | 50 x 600 x 30    | FS       | 6342310  |
| US 3 support         | US 3 70 FS       | 50 x 700 x 30    | FS       | 6342312  |
| US 3 support         | US 3 80 FS       | 50 x 800 x 30    | FS       | 6342314  |
| US 3 support         | US 3 90 FS       | 50 x 900 x 30    | FS       | 6342316  |
| US 3 support         | US 3 100 FS      | 50 x 1,000 x 30  | FS       | 6342318  |
| US 3 support         | US 3 150 FS      | 50 x 1,500 x 30  | FS       | 6342328  |
| US 3 support         | US 3 200 FS      | 50 x 2,000 x 30  | FS       | 6342338  |
| US 3 support         | US 3 300 FS      | 50 x 3,000 x 30  | FS       | 6342340  |
| US 3 support         | US 3 600 FS      | 50 x 6,000 x 30  | FS       | 6342345  |
| US 3 support         | US 3 600 FT      | 50 x 6,000 x 30  | FT       | 6342450  |
| US 3 support         | US 3 30 A2       | 50 x 300 x 30    | A2       | 6342455  |
| US 3 support         | US 3 50 A2       | 50 x 500 x 30    | A2       | 6342457  |
| US 3 support         | US 3 100 A2      | 50 x 1,000 x 30  | A2       | 6342460  |
| US 3 support         | US 3 150 A2      | 50 x 1,500 x 30  | A2       | 6342463  |
| US 3 support         | US 3 200 A2      | 50 x 2,000 x 30  | A2       | 6342466  |
| US 3 support         | US 3 600 A2      | 50 x 6,000 x 30  | A2       | 6342468  |
| US 3 support         | US 3 30 A4       | 50 x 300 x 30    | A4       | 6342485  |
| US 3 support         | US 3 50 A4       | 50 x 500 x 30    | A4       | 6342488  |
| US 3 support         | US 3 100 A4      | 50 x 1,000 x 30  | A4       | 6342491  |

## Technical data

| Designation          | Type            | Dimensions, mm   | Material | Item no. |
|----------------------|-----------------|------------------|----------|----------|
| US 3 support         | US 3 150 A4     | 50 x 1,500 x 30  | A4       | 6342494  |
| US 3 support         | US 3 200 A4     | 50 x 2,000 x 30  | A4       | 6342497  |
| US 3 support         | US 3 600 A4     | 50 x 6,000 x 30  | A4       | 6342505  |
| End cap              | US 3 KS OR      | 55 x 35.5 x 25   | PE       | 6338458  |
| U support connector  | VUS 3 FT        | 45 x 190 x 27.5  | FS       | 6018513  |
| U support connector  | VUS 3 A2        | 45 x 190 x 27.5  | A2       | 6018517  |
| U support connector  | VUS 3 A4        | 45 x 190 x 27.5  | A4       | 6018520  |
| Spacer               | DSK 25 FT       | 22.5 x 40 x 46   | FS       | 6416446  |
| Spacer               | DSK 25 FTK SW   | 22,5 x 40 x 46   | FTK      | 6479548  |
| Spacer               | DSK 25 A2       | 22.5 x 40 x 46   | A2       | 6416448  |
| Spacer               | DSK 25 A4       | 22.5 x 40 x 46   | A4       | 6416450  |
|                      |                 |                  |          |          |
| Truss-head bolt      | FRS 10x25 F 8.8 | M10 x 25         | F        | 6407560  |
| Truss-head bolt      | FRS 10x25 A2    | M10 x 25         | A2       | 6406718  |
| Truss-head bolt      | FRS 10x25 A4    | M10 x 25         | A4       | 6407524  |
| Hexagonal bolt       | SKS 10x 80 F    | M10 x 80         | F        | 6418250  |
| Hexagonal bolt       | SKS 10x 90 F    | M10 x 90         | F        | 6418252  |
| Hexagonal bolt       | SKS 10x90 A2    | M10 x 90         | A2       | 6418255  |
| Hexagonal bolt       | SKS 10x80 A4    | M10 x 80         | A4       | 6418248  |
| Hexagonal bolt       | SKS 10x90 A4    | M10 x 90         | A4       | 6418256  |
|                      |                 |                  |          |          |
| Head plate           | KU 3 FT         | 130 x 100 x 31.5 | FT       | 6348874  |
| Head plate           | KU 3 A4         | 130 x 100 x 31.5 | A4       | 6348877  |
| Head plate, variable | KU 3 V FS       | 140 x 120 x 40   | FS       | 6348881  |
| Head plate, variable | KU 3 V FT       | 140 x 120 x 40   | FT       | 6348883  |
| Head plate, variable | KU 3 V A2       | 140 x 120 x 40   | A2       | 6348884  |
| Head plate, variable | KU 3 A2         | 140 x 120 x 40   | A2       | 6348876  |
|                      |                 |                  |          |          |
| US 5 hanging support | US 5 K 20 FT    | 140 x 200 x 75   | FT       | 6341527  |
| US 5 hanging support | US 5 K 30 FT    | 140 x 300 x 75   | FT       | 6341535  |
| US 5 hanging support | US 5 K 40 FT    | 140 x 400 x 75   | FT       | 6341543  |
| US 5 hanging support | US 5 K 50 FT    | 140 x 500 x 75   | FT       | 6341551  |
| US 5 hanging support | US 5 K 60 FT    | 140 x 600 x 75   | FT       | 6341578  |
| US 5 hanging support | US 5 K 70 FT    | 140 x 700 x 75   | FT       | 6341586  |
| US 5 hanging support | US 5 K 80 FT    | 140 x 800 x 75   | FT       | 6341594  |
| US 5 hanging support | US 5 K 90 FT    | 140 x 900 x 75   | FT       | 6341608  |
| US 5 hanging support | US 5 K 100 FT   | 140 x 1,000 x 75 | FT       | 6341616  |
| US 5 hanging support | US 5 K 110 FT   | 140 x 1,100 x 75 | FT       | 6341624  |
| US 5 hanging support | US 5 K 120 FT   | 140 x 1,200 x 75 | FT       | 6341632  |
|                      |                 |                  |          |          |
| US 5 hanging support | US 5 K 20 A2    | 140 x 200 x 75   | A2       | 6341358  |
| US 5 hanging support | US 5 K 30 A2    | 140 x 300 x 75   | A2       | 6341362  |
| US 5 hanging support | US 5 K 40 A2    | 140 x 400 x 75   | A2       | 6341366  |
| US 5 hanging support | US 5 K 50 A2    | 140 x 500 x 75   | A2       | 6341370  |
| US 5 hanging support | US 5 K 60 A2    | 140 x 600 x 75   | A2       | 6341374  |
| US 5 hanging support | US 5 K 70 A2    | 140 x 700 x 75   | A2       | 6341378  |
| US 5 hanging support | US 5 K 80 A2    | 140 x 800 x 75   | A2       | 6341382  |
| US 5 hanging support | US 5 K 90 v     | 140 x 900 x 75   | A2       | 6341386  |
| US 5 hanging support | US 5 K 100 A2   | 140 x 1,000 x 75 | A2       | 6341390  |
| US 5 hanging support | US 5 K 110 A2   | 140 x 1,100 x 75 | A2       | 6341394  |
| US 5 hanging support | US 5 K 120 A2   | 140 x 1,200 x 75 | A2       | 6341398  |
|                      |                 |                  |          |          |
| US 5 hanging support | US 5 K 20 A4    | 140 x 200 x 75   | A4       | 6341209  |
| US 5 hanging support | US 5 K 30 A4    | 140 x 300 x 75   | A4       | 6341213  |
| US 5 hanging support | US 5 K 40 A4    | 140 x 400 x 75   | A4       | 6341217  |
| US 5 hanging support | US 5 K 50 A4    | 140 x 500 x 75   | A4       | 6341221  |
| US 5 hanging support | US 5 K 60 A4    | 140 x 600 x 75   | A4       | 6341225  |
| US 5 hanging support | US 5 K 70 A4    | 700 x 140        | A4       | 6341228  |
| US 5 hanging support | US 5 K 80 A4    | 800 x 140        | A4       | 6341233  |
| US 5 hanging support | US 5 K 90 A4    | 900 x 140        | A4       | 6341237  |
| US 5 hanging support | US 5 K 100 A4   | 1,000 x 140      | A4       | 6341241  |
| US 5 hanging support | US 5 K 110 A4   | 1,100 x 140      | A4       | 6341245  |
| US 5 hanging support | US 5 K 120 A4   | 1,200 x 140      | A4       | 6341249  |
|                      |                 |                  |          |          |
| US 5 support         | US 5 20 FT      | 200 x 50         | FT       | 6340881  |
| US 5 support         | US 5 30 FT      | 300 x 50         | FT       | 6340903  |

| Designation          | Type            | Dimensions, mm | Material | Item no. |
|----------------------|-----------------|----------------|----------|----------|
| US 5 support         | US 5 40 FT      | 400 x 50       | FT       | 6340911  |
| US 5 support         | US 5 50 FT      | 500 x 50       | FT       | 6340938  |
| US 5 support         | US 5 60 FT      | 600 x 50       | FT       | 6340946  |
| US 5 support         | US 5 70 FT      | 700 x 50       | FT       | 6340950  |
| US 5 support         | US 5 80 FT      | 800 x 50       | FT       | 6340954  |
| US 5 support         | US 5 90 FT      | 900 x 50       | FT       | 6340958  |
| US 5 support         | US 5 100 FT     | 1,000 x 50     | FT       | 6340962  |
| US 5 support         | US 5 110 FT     | 1,100 x 50     | FT       | 6340964  |
| US 5 support         | US 5 150 FT     | 1,500 x 50     | FT       | 6340966  |
| US 5 support         | US 5 200 FT     | 2,000 x 50     | FT       | 6340970  |
| US 5 support         | US 5 300 FT     | 3,000 x 50     | FT       | 6340989  |
| US 5 support         | US 5 600 FT     | 6,000 x 50     | FT       | 6340997  |
| US 5 support         | US 5 20 A2      | 200 x 50       | A2       | 6341101  |
| US 5 support         | US 5 30 A2      | 300 x 50       | A2       | 6341105  |
| US 5 support         | US 5 40 A2      | 400 x 50       | A2       | 6341109  |
| US 5 support         | US 5 50 A2      | 500 x 50       | A2       | 6341113  |
| US 5 support         | US 5 70 A2      | 700 x 50       | A2       | 6341121  |
| US 5 support         | US 5 80 A2      | 800 x 50       | A2       | 6341125  |
| US 5 support         | US 5 90 A2      | 900 x 50       | A2       | 6341129  |
| US 5 support         | US 5 100 A2     | 1,000 x 50     | A2       | 6341133  |
| US 5 support         | US 5 110 A2     | 1,100 x 50     | A2       | 6341137  |
| US 5 support         | US 5 120 A2     | 1,200 x 50     | A2       | 6341141  |
| US 5 support         | US 5 300 A2     | 3,000 x 50     | A2       | 6341152  |
| US 5 support         | US 5 30 A4      | 300 x 50       | A4       | 6341053  |
| US 5 support         | US 5 40 A4      | 400 x 50       | A4       | 6341055  |
| US 5 support         | US 5 50 A4      | 500 x 50       | A4       | 6341057  |
| US 5 support         | US 5 60 A4      | 600 x 50       | A4       | 6341059  |
| US 5 support         | US 5 80 A4      | 800 x 50       | A4       | 6341063  |
| US 5 support         | US 5 90 A4      | 900 x 50       | A4       | 6341065  |
| US 5 support         | US 5 300 A4     | 3,000 x 50     | A4       | 6341073  |
| U support connector  | VUS 5 FT        | 190 x 44       | FT       | 6018505  |
| Spacer               | DSK 45 FT       | 80 x 45        | FT       | 6416500  |
| Spacer               | DSK 45 A2       | 80 x 45        | A2       | 6416489  |
| Spacer               | DSK 45 A4       | 80 x 45        | A4       | 6416462  |
| Head plate US 5      | KUS 5 FT        | 104 x 56       | FT       | 6348904  |
| Head plate, variable | KU 5 V FT       | 180 x 109 x 55 | FT       | 6348920  |
| Head plate, variable | KU 5 V A2       | 180 x 109 x 55 | A2       | 6348925  |
| Spacer               | DSK 47 FT       | 80 x 47 x 40   | FT       | 6416504  |
| Spacer               | DSK 47 A2       | 80 x 47 x 40   | A2       | 6416507  |
| Spacer               | DSK 47 A4       | 80 x 47 x 40   | A4       | 6416511  |
| Truss-head bolt      | FRS 10x25 F 8.8 | 10 x 25        | F        | 6407560  |
| Truss-head bolt      | FRS 10x25 A2    | 10 x 25        | A2       | 6406718  |
| Truss-head bolt      | FRS 10x25 A4    | 10 x 25        | A4       | 6407524  |
| Hexagonal bolt       | SKS 10x 80 F    | 10 x 80        | F        | 6418250  |
| Hexagonal bolt       | SKS 10x 90 F    | 10 x 90        | F        | 6418252  |
| Hexagonal bolt       | SKS 10x 120 F   | 10 x 120       | F        | 3160793  |
| Hexagonal bolt       | SKS 10x90 A2    | 10 x 90        | A2       | 6418255  |
| Hexagonal bolt       | SKS 10x80 A4    | 10 x 80        | A4       | 6418248  |
| Hexagonal bolt       | SKS 10x90 A4    | 10 x 90        | A4       | 6418256  |
| US 7 hanging support | US 7 K 20 FT    | 200 x 200      | FT       | 6339018  |
| US 7 hanging support | US 7 K 30 FT    | 300 x 200      | FT       | 6339034  |
| US 7 hanging support | US 7 K 40 FT    | 400 x 200      | FT       | 6339050  |
| US 7 hanging support | US 7 K 50 FT    | 500 x 200      | FT       | 6339077  |
| US 7 hanging support | US 7 K 60 FT    | 600 x 200      | FT       | 6339093  |
| US 7 hanging support | US 7 K 70 FT    | 700 x 200      | FT       | 6339115  |
| US 7 hanging support | US 7 K 80 FT    | 800 x 200      | FT       | 6339131  |
| US 7 hanging support | US 7 K 90 FT    | 900 x 200      | FT       | 6339166  |
| US 7 hanging support | US 7 K 100 FT   | 1,000 x 200    | FT       | 6339182  |
| US 7 hanging support | US 7 K 110 FT   | 1,100 x 200    | FT       | 6339190  |

## Technical data

| Designation            | Type          | Dimensions, mm  | Material | Item no. |
|------------------------|---------------|-----------------|----------|----------|
| US 7 hanging support   | US 7 K 120 FT | 1,200 x 200     | FT       | 6339204  |
| US 7 hanging support   | US 7 K 130 FT | 1,300 x 200     | FT       | 6339212  |
| US 7 hanging support   | US 7 K 140 FT | 1,400 x 200     | FT       | 6339220  |
| US 7 hanging support   | US 7 K 150 FT | 1,500 x 200     | FT       | 6339239  |
| US 7 hanging support   | US 7 K 160 FT | 1,600 x 200     | FT       | 6339247  |
| US 7 hanging support   | US 7 K 170 FT | 1,700 x 200     | FT       | 6339255  |
| US 7 hanging support   | US 7 K 180 FT | 1,800 x 200     | FT       | 6339263  |
| US 7 hanging support   | US 7 K 190 FT | 1,900 x 200     | FT       | 6339271  |
| US 7 hanging support   | US 7 K 200 FT | 2,000 x 200     | FT       | 6339298  |
| US 7 hanging support   | US 7 K 20 A2  | 200 x 200       | A2       | 6338607  |
| US 7 hanging support   | US 7 K 30 A2  | 300 x 200       | A2       | 6338615  |
| US 7 hanging support   | US 7 K 40 A2  | 400 x 200       | A2       | 6338623  |
| US 7 hanging support   | US 7 K 50 A2  | 500 x 200       | A2       | 6338631  |
| US 7 hanging support   | US 7 K 60 A2  | 600 x 200       | A2       | 6338658  |
| US 7 hanging support   | US 7 K 70 A2  | 700 x 200       | A2       | 6338666  |
| US 7 hanging support   | US 7 K 80 A2  | 800 x 200       | A2       | 6338674  |
| US 7 hanging support   | US 7 K 90 A2  | 900 x 200       | A2       | 6338682  |
| US 7 hanging support   | US 7 K 100 A2 | 1,000 x 200     | A2       | 6338690  |
| US 7 hanging support   | US 7 K 110 A2 | 1,100 x 200     | A2       | 6338704  |
| US 7 hanging support   | US 7 K 120 A2 | 1,200 x 200     | A2       | 6338712  |
| US 7 hanging support   | US 7 K 140 A2 | 1,400 x 200     | A2       | 6338739  |
| US 7 hanging support   | US 7 K 150 A2 | 1,500 x 200     | A2       | 6338747  |
| US 7 hanging support   | US 7 K 200 A2 | 2,000 x 200     | A2       | 6338801  |
| US 7 hanging support   | US 7 K 100 A4 | 1,000 x 200     | A4       | 6338872  |
| US 7 hanging support   | US 7 K 200 A4 | 2,000 x 200     | A4       | 6338881  |
| End cap                | US 7 KS OR    | 74.5 x 55 x 25  | PE       | 6338497  |
| US 7 support           | US 7 20 FT    | 200 x 50 x 70   | FT       | 6340016  |
| US 7 support           | US 7 30 FT    | 300 x 50 x 70   | FT       | 6340032  |
| US 7 support           | US 7 40 FT    | 400 x 50 x 70   | FT       | 6340059  |
| US 7 support           | US 7 50 FT    | 500 x 50 x 70   | FT       | 6340075  |
| US 7 support           | US 7 60 FT    | 600 x 50 x 70   | FT       | 6340091  |
| US 7 support           | US 7 70 FT    | 700 x 50 x 70   | FT       | 6340113  |
| US 7 support           | US 7 80 FT    | 800 x 50 x 70   | FT       | 6340148  |
| US 7 support           | US 7 90 FT    | 900 x 50 x 70   | FT       | 6340164  |
| US 7 support           | US 7 100 FT   | 1,000 x 50 x 70 | FT       | 6340180  |
| US 7 support           | US 7 110 FT   | 1,100 x 50 x 70 | FT       | 6340199  |
| US 7 support           | US 7 120 FT   | 1,200 x 50 x 70 | FT       | 6340202  |
| US 7 support           | US 7 130 FT   | 1,300 x 50 x 70 | FT       | 6340210  |
| US 7 support           | US 7 140 FT   | 1,400 x 50 x 70 | FT       | 6340229  |
| US 7 support           | US 7 150 FT   | 1,500 x 50 x 70 | FT       | 6340237  |
| US 7 support           | US 7 160 FT   | 1,600 x 50 x 70 | FT       | 6340245  |
| US 7 support           | US 7 170 FT   | 1,700 x 50 x 70 | FT       | 6340253  |
| US 7 support           | US 7 180 FT   | 1,800 x 50 x 70 | FT       | 6340261  |
| US 7 support           | US 7 190 FT   | 1,900 x 50 x 70 | FT       | 6340288  |
| US 7 support           | US 7 200 FT   | 2,000 x 50 x 70 | FT       | 6340296  |
| US 7 support           | US 7 300 FT   | 3,000 x 50 x 70 | FT       | 6340377  |
| US 7 support           | US 7 400 FT   | 4,000 x 50 x 70 | FT       | 6340393  |
| US 7 support           | US 7 600 FT   | 6,000 x 50 x 70 | FT       | 6340318  |
| US 7 support           | US 7 50 A2    | 500 x 50 x 70   | A2       | 6341764  |
| US 7 support           | US 7 100 A2   | 1,000 x 50 x 70 | A2       | 6341810  |
| US 7 support           | US 7 150 A2   | 1,500 x 50 x 70 | A2       | 6341861  |
| US 7 support           | US 7 200 A2   | 2,000 x 50 x 70 | A2       | 6341950  |
| US 7 support           | US 7 300 A2   | 3,000 x 50 x 70 | A2       | 6341969  |
| US 7 support           | US 7 600 A2   | 6,000 x 50 x 70 | A2       | 6341993  |
| US 7 support           | US 7 600 A4   | 6,000 x 50 x 70 | A4       | 6341995  |
| U support connector    | VUS 7 FT      | 200 x 61 x 45   | FT       | 6018378  |
| U support connector    | VUS 7 A2      | 200 x 61 x 45   | A2       | 6018408  |
| Spacer                 | DSK 61 FT     | 80 x 61 x 40    | FT       | 6416519  |
| Spacer                 | DSK 61 A2     | 80 x 61 x 40    | A2       | 6416527  |
| Spacer                 | DSK 61 A4     | 80 x 61 x 40    | A4       | 6416533  |
| Head plate, light duty | KU 7 FT       | 115 x 16        | FT       | 6349102  |

| Designation                      | Type            | Dimensions, mm  | Material | Item no. |
|----------------------------------|-----------------|-----------------|----------|----------|
| Head plate, heavy duty           | KU 7 NOX FT     | 200 x 120       | FT       | 6349056  |
| Head plate, heavy duty           | KUS 7 A2        | 200 x 98.5      | A2       | 6349277  |
| Head plate, variable             | KU 7 VQP FT     | 200 x 130       | FT       | 6349153  |
| Head plate, variable             | KU 7 VQP A2     | 200 x 130       | A2       | 6349196  |
| Adapter head plate, symmetrical  | KA-SY FT        | 400 x 100 x 50  | FT       | 6346804  |
| Adapter head plate, asymmetrical | KA-ASY FT       | 400 x 50        | FT       | 6346820  |
| Truss-head bolt                  | FRS 12x 25 F    | 12 x 25         | F        | 6406254  |
| Truss-head bolt                  | FRS 12x25 A2    | 12 x 25         | A2       | 6406750  |
| Hexagonal bolt                   | SKS 12x 80 F    | 12 x 80         | F        | 6418287  |
| Hexagonal bolt                   | SKS 12x 100 F   | 12 x 100        | F        | 6418295  |
| Hexagonal bolt                   | SKS 12x 110 F   | 12 x 110        | F        | 6418317  |
| Hexagonal bolt                   | SKS 12x 130 F   | 12 x 130        | F        | 6408478  |
| Hexagonal bolt                   | SKS 12x80 A2    | 12 x 80         | A2       | 6418279  |
| Hexagonal bolt                   | SKS 12x100 A2   | 12 x 100        | A2       | 6418368  |
| Hexagonal bolt                   | SKS 12x110 A2   | 12 x 110        | A2       | 6418376  |
| Wall and support bracket MWA 12  | MWA 12 11S FS   | 110 x 32.5 x 53 | FS       | 6424716  |
| Wall and support bracket MWA 12  | MWA 12 21S FS   | 210 x 32.5 x 65 | FS       | 6424732  |
| Wall and support bracket MWA 12  | MWA 12 31S FS   | 310 x 38 x 75   | FS       | 6424740  |
| Wall and support bracket MWA 12  | MWA 12 41S FS   | 410 x 38 x 83   | FS       | 6424759  |
| Wall and support bracket MWAM 12 | MWAM 12 11 FS   | 110 x 32.5 x 53 | FS       | 6424550  |
| Wall and support bracket MWAM 12 | MWAM 12 21 FS   | 210 x 32.5 x 65 | FS       | 6424552  |
| Wall and support bracket MWAM 12 | MWAM 12 31 FS   | 310 x 38 x 75   | FS       | 6424554  |
| Wall and support bracket MWAM 12 | MWAM 12 41 FS   | 410 x 38 x 83   | FS       | 6424556  |
| Wall and support bracket AW 15   | AW 15 11 FT     | 110 x 40 x 50   | FT       | 6420656  |
| Wall and support bracket AW 15   | AW 15 16 FT     | 160 x 40 x 55   | FT       | 6420664  |
| Wall and support bracket AW 15   | AW 15 21 FT     | 210 x 40 x 60   | FT       | 6420680  |
| Wall and support bracket AW 15   | AW 15 31 FT     | 310 x 40 x 65   | FT       | 6420710  |
| Wall and support bracket AW 15   | AW 15 41 FT     | 410 x 40 x 70   | FT       | 6420745  |
| Wall and support bracket AW 15   | AW 15 51 FT     | 510 x 40 x 75   | FT       | 6420788  |
| Wall and support bracket AW 15   | AW 15 61 FT     | 610 x 40 x 80   | FT       | 6420826  |
| Wall and support bracket AW 15   | AW 15 11 FTK SW | 110 x 40 x 50   | FTK      | 6420681  |
| Wall and support bracket AW 15   | AW 15 21 FTK SW | 210 x 40 x 60   | FTK      | 6420683  |
| Wall and support bracket AW 15   | AW 15 31 FTK SW | 310 x 40 x 65   | FTK      | 6420685  |
| Wall and support bracket AW 15   | AW 15 41 FTK SW | 410 x 40 x 70   | FTK      | 6420210  |
| Wall and support bracket AW 15   | AW 15 11 A2     | 110 x 40 x 50   | A2       | 6421008  |
| Wall and support bracket AW 15   | AW 15 21 A2     | 210 x 40 x 60   | A2       | 6421024  |
| Wall and support bracket AW 15   | AW 15 31 A2     | 310 x 40 x 65   | A2       | 6421032  |
| Wall and support bracket AW 15   | AW 15 41 A2     | 410 x 40 x 70   | A2       | 6421036  |
| Wall and support bracket AW 15   | AW 15 51 A2     | 510 x 40 x 75   | A2       | 6421040  |
| Wall and support bracket AW 15   | AW 15 61 A2     | 610 x 40 x 80   | A2       | 6421044  |
| Wall and support bracket AW 15   | AW 15 11 A4     | 110 x 40 x 50   | A4       | 6392008  |
| Wall and support bracket AW 15   | AW 15 21 A4     | 210 x 40 x 60   | A4       | 6392016  |
| Wall and support bracket AW 15   | AW 15 31 A4     | 310 x 40 x 65   | A4       | 6392024  |
| Wall and support bracket AW 15   | AW 15 41 A4     | 410 x 40 x 70   | A4       | 6392032  |
| Wall and support bracket AW 15   | AW 15 51 A4     | 510 x 40 x 75   | A4       | 6392040  |
| Wall and support bracket AW 15   | AW 15 61 A4     | 610 x 40 x 80   | A4       | 6392059  |
| Wall and support bracket AW 30   | AW 30 11 FT     | 110 x 50 x 60   | FT       | 6419704  |
| Wall and support bracket AW 30   | AW 30 16 FT     | 160 x 50 x 65   | FT       | 6419712  |
| Wall and support bracket AW 30   | AW 30 21 FT     | 210 x 50 x 70   | FT       | 6419720  |
| Wall and support bracket AW 30   | AW 30 31 FT     | 310 x 50 x 80   | FT       | 6419747  |
| Wall and support bracket AW 30   | AW 30 41 FT     | 410 x 50 x 80   | FT       | 6419763  |
| Wall and support bracket AW 30   | AW 30 51 FT     | 510 x 50 x 90   | FT       | 6419798  |
| Wall and support bracket AW 30   | AW 30 61 FT     | 610 x 50 x 100  | FT       | 6419828  |
| Wall and support bracket AW 30   | AW 30 71 FT     | 710 x 50 x 100  | FT       | 6419836  |
| Wall and support bracket AW 30   | AW 30 11 A2     | 110 x 50 x 60   | A2       | 6442803  |
| Wall and support bracket AW 30   | AW 30 21 A2     | 210 x 50 x 70   | A2       | 6442838  |
| Wall and support bracket AW 30   | AW 30 31 A2     | 310 x 50 x 80   | A2       | 6442854  |

## Technical data

| Designation                    | Type           | Dimensions, mm   | Material | Item no. |
|--------------------------------|----------------|------------------|----------|----------|
| Wall and support bracket AW 30 | AW 30 41 A2    | 410 x 50 x 80    | A2       | 6442870  |
| Wall and support bracket AW 30 | AW 30 51 A2    | 510 x 50 x 90    | A2       | 6442897  |
| Wall and support bracket AW 30 | AW 30 61 A2    | 610 x 50 x 100   | A2       | 6442919  |
| Wall and support bracket AW 30 | AW 30 11 A4    | 110 x 50 x 60    | A4       | 6443615  |
| Wall and support bracket AW 30 | AW 30 21 A4    | 210 x 50 x 70    | A4       | 6443311  |
| Wall and support bracket AW 30 | AW 30 31 A4    | 310 x 50 x 80    | A4       | 6443621  |
| Wall and support bracket AW 30 | AW 30 41 A4    | 410 x 50 x 80    | A4       | 6443346  |
| Wall and support bracket AW 30 | AW 30 51 A4    | 510 x 50 x 90    | A4       | 6443625  |
| Wall and support bracket AW 30 | AW 30 61 A4    | 610 x 50 x 100   | A4       | 6443627  |
|                                |                |                  |          |          |
| Wall and support bracket AW 55 | AW 55 21 FT    | 210 x 50 x 90    | FT       | 6418554  |
| Wall and support bracket AW 55 | AW 55 31 FT    | 310 x 50 x 110   | FT       | 6418570  |
| Wall and support bracket AW 55 | AW 55 41 FT    | 410 x 50 x 130   | FT       | 6418597  |
| Wall and support bracket AW 55 | AW 55 51 FT    | 510 x 60 x 145   | FT       | 6418619  |
| Wall and support bracket AW 55 | AW 55 61 FT    | 610 x 60 x 165   | FT       | 6418635  |
| Wall and support bracket AW 55 | AW 55 71 FT    | 710 x 60 x 195   | FT       | 6418651  |
| Wall and support bracket AW 55 | AW 55 81 FT    | 810 x 60 x 195   | FT       | 6418686  |
| Wall and support bracket AW 55 | AW 55 91 FT    | 910 x 60 x 215   | FT       | 6418708  |
| Wall and support bracket AW 55 | AW 55 101 FT   | 1,010 x 60 x 230 | FT       | 6418724  |
|                                |                |                  |          |          |
| Wall and support bracket AW 55 | AW 55 21 A2    | 210 x 50 x 90    | A2       | 6443063  |
| Wall and support bracket AW 55 | AW 55 31 A2    | 310 x 50 x 110   | A2       | 6443067  |
| Wall and support bracket AW 55 | AW 55 41 A2    | 410 x 50 x 130   | A2       | 6443071  |
| Wall and support bracket AW 55 | AW 55 51 A2    | 510 x 60 x 145   | A2       | 6443075  |
| Wall and support bracket AW 55 | AW 55 61 A2    | 610 x 60 x 165   | A2       | 6443079  |
| Wall and support bracket AW 55 | AW 55 71 A2    | 710 x 60 x 195   | A2       | 6443083  |
| Wall and support bracket AW 55 | AW 55 21 A4    | 210 x 50 x 90    | A4       | 6418557  |
| Wall and support bracket AW 55 | AW 55 31 A4    | 310 x 50 x 110   | A4       | 6418573  |
| Wall and support bracket AW 55 | AW 55 41 A4    | 410 x 50 x 130   | A4       | 6418601  |
| Wall and support bracket AW 55 | AW 55 51 A4    | 510 x 60 x 145   | A4       | 6418622  |
| Wall and support bracket AW 55 | AW 55 61 A4    | 610 x 60 x 165   | A4       | 6418638  |
|                                |                |                  |          |          |
| Wall bracket AW 80             | AW 80 21 FT    | 210 x 50 x 110   | FT       | 6417752  |
| Wall bracket AW 80             | AW 80 31 FT    | 310 x 50 x 145   | FT       | 6417779  |
| Wall bracket AW 80             | AW 80 41 FT    | 410 x 50 x 165   | FT       | 6417795  |
| Wall bracket AW 80             | AW 80 51 FT    | 510 x 60 x 195   | FT       | 6417817  |
| Wall bracket AW 80             | AW 80 61 FT    | 610 x 60 x 210   | FT       | 6417833  |
| Wall bracket AW 80             | AW 80 71 FT    | 710 x 60 x 235   | FT       | 6417868  |
| Wall bracket AW 80             | AW 80 81 FT    | 810 x 60 x 260   | FT       | 6417884  |
|                                |                |                  |          |          |
| Wall bracket, variable         | AWV 21 FT      | 210 x 130 x 60   | FT       | 6419534  |
| Wall bracket, variable         | AWV 31 FT      | 310 x 130 x 60   | FT       | 6419550  |
| Wall bracket, variable         | AWV 41 FT      | 410 x 130 x 60   | FT       | 6419577  |
| Wall bracket, variable         | AWV 51 FT      | 510 x 130 x 60   | FT       | 6419593  |
| Wall bracket, variable         | AWV 61 FT      | 610 x 130 x 60   | FT       | 6419615  |
|                                |                |                  |          |          |
| Hexagonal bolt                 | SKS 12x40 G F  | 12 x 40          | F        | 3164020  |
|                                |                |                  |          |          |
| Suspension bracket, black      | AHB 100 FTK SW | 30 x 127 x 180   | FTK      | 6363875  |
| Suspension bracket, black      | AHB 200 FTK SW | 30 x 231 x 180   | FTK      | 6363877  |
| Suspension bracket, black      | AHB 300 FTK SW | 30 x 331 x 180   | FTK      | 6363878  |
| Suspension bracket, black      | AHB 400 FTK SW | 30 x 431 x 180   | FTK      | 6363879  |
|                                |                |                  |          |          |
| Mounting angle BW 60           | BW 60 40 FT    | 60 x 40          | FT       | 6019560  |
| Mounting angle BW 60           | BW 60 40 A2    | 60 x 40          | A2       | 6019587  |
| Mounting angle BW 60           | BW 60 40 A4    | 60 x 40          | A4       | 6019583  |
| Mounting angle BW 70           | BW 70 40 FT    | 40 x 70          | FT       | 6019706  |
| Mounting angle BW 80           | BW 80 55 FT    | 80 x 55          | FT       | 6019528  |

### Legend

G = Electrogalvanised

F = Hot galvanised

FS = Strip galvanised

FT = Hot-dip galvanised

A2 = Stainless steel

A4 = Stainless steel

PE = Polyethylene





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