

# Knauf Profiles, Installation & Fastening Technology

## Security of a system

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## **Knauf – Security of a system**

Interaction of competence and products

### Drywall innovation driver



Knauf as the innovation leader has rapidly developed drywalling construction based on the use of gypsum boards over the past decades. Knauf solutions today stand for versatile performance that cannot be achieved by conventional solid construction, or that would require incomparably greater effort or resources. Drywall from Knauf is essential should you want premium quality and modern design.

#### Connections you can trust

The combination of Knauf competence with Knauf products provides the security with and of a system. The use of Knauf installation and fastening technology as well as profiles in walls, ceilings and in special systems is worth it in every case. Safe, fast and reliable – best connections provide the basis for drywalling.

#### Fire resistance



Fire resistance from Knauf has always been: Security of a system. This applies for DIN constructions up to certified constructions and system solutions for wall, ceiling and floor systems in general through to special requirements such as column and beam encasements, Cubo room-in-room systems, cable and ventilation systems as well as class 4 in timber-framed construction design.

### Sound insulation



Many sources of noise cannot be easily switched off and add to the levels of everyday stress. This is why sound insulation is becoming increasingly important for living, working and the general quality of life. Knauf sound insulation systems offer home owners, contractors and public sector developers and investors a reliable solution that exceeds the standard in the construction of industrial and commercial buildings.

#### Walls

Lightweight Knauf system walls in particular stand for flexibility, performance and cost-effectiveness. They stand for fire resistance, sound insulation, robustness and high surface quality both in residential and commercial construction as well as in public buildings. Even burglar-retardant as well as bullet-resistant partitions for extreme high-end requirements, e.g. in security zones of banks, police stations or panic rooms, can be implemented using Knauf constructions. Knauf offers the optimum system solution for every requirement with standard and customized constructions.

#### Ceilings

Ceiling design represents a particular challenge. Design and colour scheme, acoustics and sound insulation significantly influence the room atmosphere. The fire resistance must also guarantee comprehensive protection from above. Knauf ceiling systems combine all these diverse demands. Knauf design units are a significant factor to combine the highest level of precision with cost-effectiveness. Fast assembly thanks to a high degree of prefabrication and perfect surfaces – this is contemporary construction.

## General

### Terms

The terms used in our documents for construction heights may not always be consistent due to the diverse range of subject areas concerned, or are only clearly defined in a few cases. Furthermore, there are hardly any definitions in the standard regarding the individual levels of a ceiling construction.

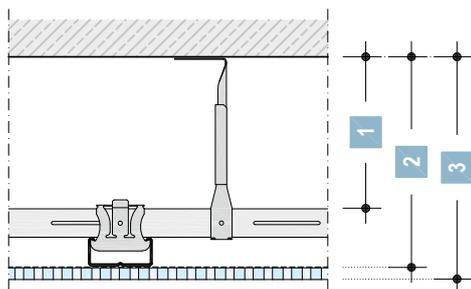
For example, the suspension height in fire resistance is not the same as the construction depth in acoustics. In acoustics, the board thicknesses are considered, whereas in fire resistance only the area up to the rear of the gypsum board (plenum) is considered.

For detailed determination of the individual levels only the terms upper grid level and total construction height are introduced.

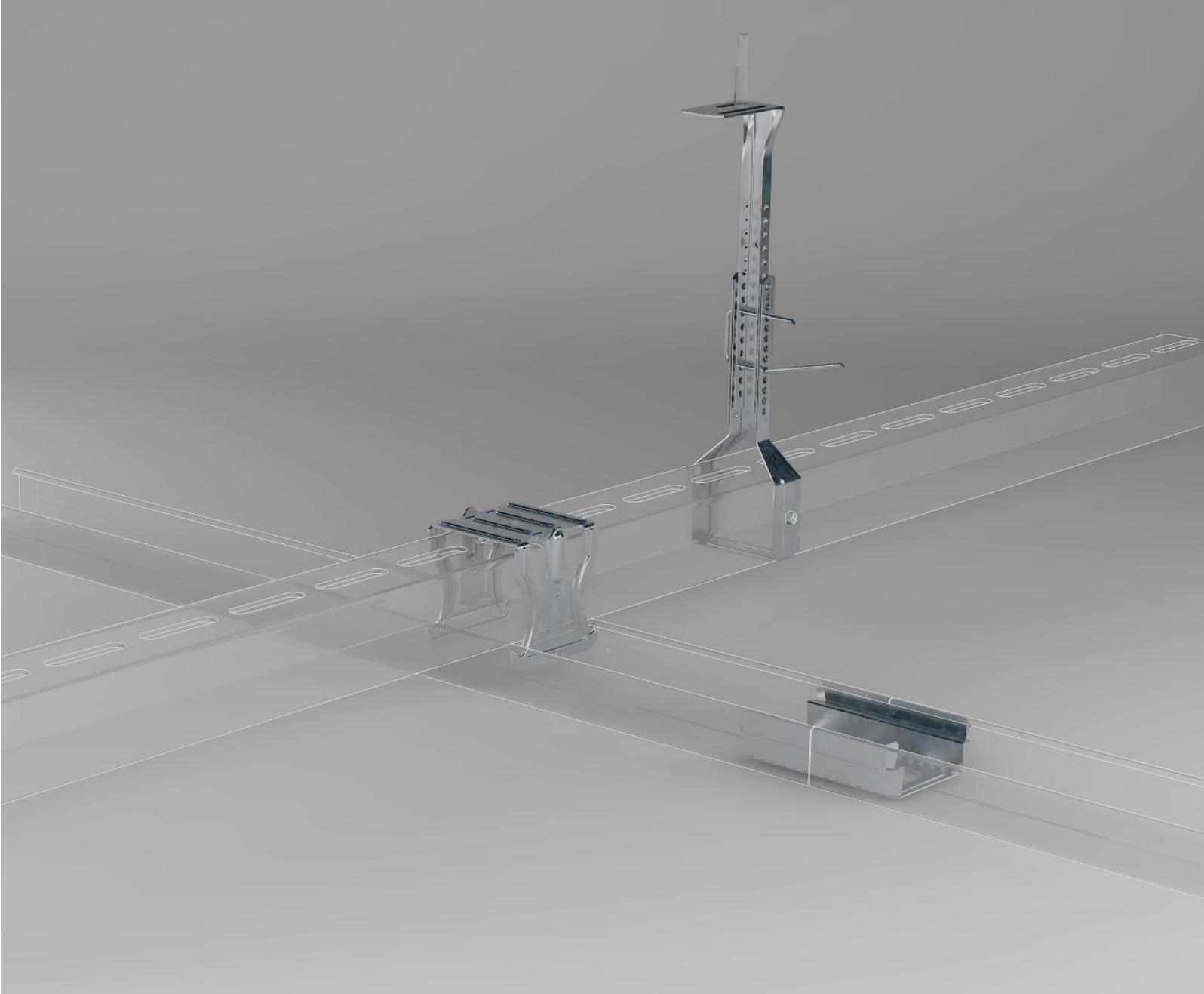
With the upper grid level on a suspender component (e.g. Nonius suspender), the distance between the basic ceiling lower edge up to the upper edge of the suspended CD Channel is implied. The same applies for Universal Brackets or the Ankerfix.

This has the advantage that a fixed area from the basic ceiling is defined regardless of the type of suspender, and the dimensions can be clearly derived from this.

For the reasons mentioned, the different terms are shown in the drawing below. The terms in brackets are currently designations in the current product data sheets, which will be harmonized in future acc. to the drawing.



- 1 Upper grid level (height of suspension / installation height)
- 2 Suspension height (height of the plenum)
- 3 Total height (construction height / total height / construction depth)



## Installation technology

Suspenders

Suspenders – Nonius system

Clips

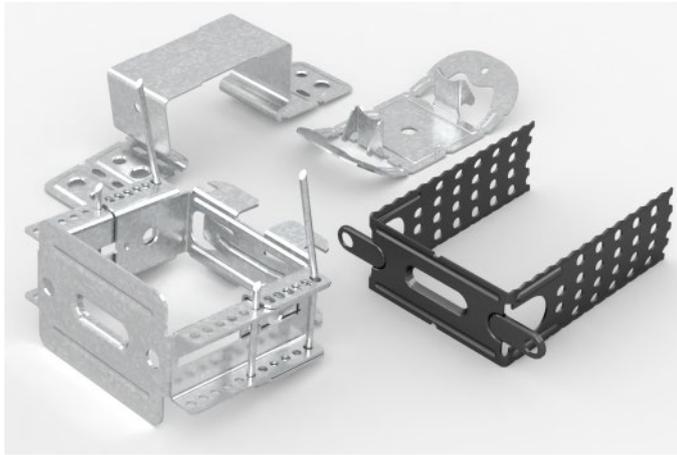
Brackets

Connectors

### Knauf systems as all-rounders

#### Direct lining / fastening systems

Universal Brackets are used for direct lining of ceilings from 5 to 190 mm of the upper grid level.



#### Clips

Clips for a quick height adjustment in just a single step.

##### *Example Adjusting Clip*

Mounting systems are perfect when you can quickly achieve the desired result. The Adjusting Clip can be easily installed and the result is good. Grids made of CD Channels can be very easily fastened to timber. The Adjusting Clip is easily screwed on and enables the equalisation of differences in height in a single step. Even with the air tightness layer.

#### UA centre suspension

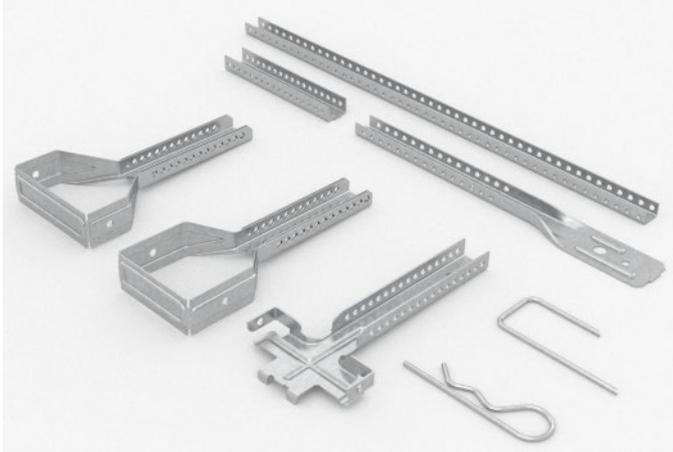
Free-spanning ceilings facilitate modern constructions. With the UA centre suspension, the innovative accessory for Knauf systems, new options result when longer distances are required. The top section is anchored to the ceiling, the bottom section to the UA profiles. Both individual parts are connected using a threaded rod at a flexible suspension height – ready to use. The freely-suspended ceiling extends across unexpected widths.

#### System Ankerfix

For suspension from ceilings up to the medium suspension heights with normal ceiling weights.

**Nonius system**

For suspension from ceilings at enhanced weights, larger suspension heights or special requirements.

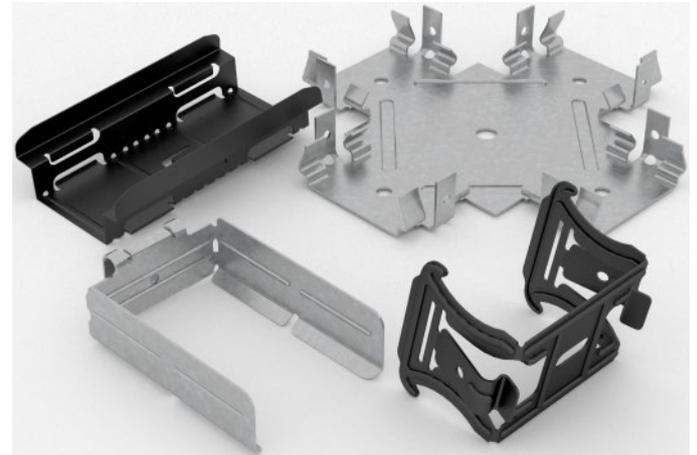


**Special bracket**

For special usage with suspended or free-spanning ceilings.

**Profile interconnector**

For safe and secure connection of Knauf profiles to the ceiling substructure.



*Example Multi-Connector*

The Multi-Connector is an all-rounder. Its spring-action design fits perfectly into the CD Channel and keeps the longitudinal connector doubly secure. With the innovative adapter elements it can do a lot more. Differing angle connectors in the grid are simple to implement. Combine Multi-Connectors and adapter elements and drywalling is faster, more precise and simply better.

### Installation technology

Table 1: Installation technology overview

Product	Partition systems				Ceiling and roof systems			Special systems
	Metal stud partitions	Wood frame partitions	Furring and linings	Installation Shaft Walls	Board ceilings	Acoustical ceilings	Roof	
<b>Universal Bracket</b>								
Universal Bracket for CD 60/27	–	–	○	–	●	●	●	–
Universal Bracket for timber batten and UA profiles	–	–	–	–	●	–	●	–
Damping Universal Bracket for CD 60/27	–	–	●	–	●	–	●	–
Damping Universal Bracket for wooden battens	–	–	–	–	●	–	●	–
Adjustable Universal Bracket for CD 60/27	–	–	–	–	●	○	●	–
Adjustable Damping Universal Bracket for CD 60/27	–	–	–	–	●	–	●	–
<b>UA centre suspension</b>								
UA centre suspension	–	–	–	–	●	●	–	–
<b>Suspended with hanging wire</b>								
Ankerfix Rapid Hanger for CD 60/27	–	–	–	–	●	–	–	–
Ankerfix Rapid Hanger BASIC	–	–	–	–	●	–	–	–
Double Cleat	–	–	–	–	●	–	–	–
Hanging Wire	–	–	–	–	●	–	–	–
<b>Suspension with Nonius system</b>								
Nonius Hanger Top	–	–	–	–	●	●	●	–
Nonius Swing Top	–	–	–	–	●	–	–	–
Nonius Suspension Profile	–	–	–	–	●	●	–	–
Nonius connector	–	–	–	–	●	●	●	–
Nonius hanger bottom	–	–	–	–	●	●	●	–
Nonius Stirrup for CD 60/27	–	–	–	–	●	●	–	–
Nonius Stirrup for UA 50/40	–	–	–	–	●	–	–	–
Nonius bop pin	–	–	–	–	●	●	●	–
Nonius pin	–	–	–	–	●	●	●	–
<b>Clips</b>								
Clip Fastener	–	–	–	–	●	–	●	–
Adjusting Clip	–	–	–	–	●	–	●	–
Direct Bracket	–	–	–	–	●	●	–	–
Column Clip	–	–	–	–	–	–	–	●

● Application

○ Possible application

– Not used

Product	Partition systems				Ceiling and roof systems			Special systems
	Met- al stud parti- tions	Wood frame parti- tions	Furring and lin- ings	Instal- ation Shaft Walls	Board ceilings	Acousti- cal ceil- ings	Roof	
<b>Brackets</b>								
Ankerwinkel Clip	–	–	–	–	●	●	●	–
Daisy Chain Clip	–	–	–	–	●	●	●	–
Connection Angle	●	–	●	●	○	–	–	–
Door Frame Bracket	●	–	–	–	–	–	–	–
Sliding wall bracket	●	–	–	–	–	–	–	–
UA Angle Connector	●	–	–	–	–	–	–	●
Fixing kit aprons / balustrades, welded	–	–	–	–	–	–	–	●
Fixing kit Aprons / Balustrades	–	–	–	–	–	–	–	●
KAW Steel Bracket 70 x 135/100	–	–	–	–	–	–	–	●
Cubo Connection Bracket	–	–	–	–	●	○	–	●
<b>Connectors</b>								
CD longitudinal connector	–	–	○	–	●	●	●	–
Universal Connector	–	–	–	–	●	○	○	–
Angle Connector 90°	–	–	–	–	●	●	–	–
Multi-Connector	–	–	–	–	●	○	–	–
Adapter for Multi-Connector	–	–	○	–	●	○	–	–
Intersection Connector for CD 60/27	–	–	–	–	●	●	●	–
Intersection Connector for UA Profile with CD Channel	–	–	–	–	●	–	–	–
Intersection Connector for T connection with CD Channel	–	–	–	–	●	●	–	–
Flush Connector	–	–	–	–	●	○	–	–

● Application

○ Possible application

– Not used

Table 2: Overview of the installation technology products

Product	Upper grid level mm	Also in C3-C5M	Suitable for Knauf systems	For which suspender system?		
				Wire	Nonius	Direct fastening
 Ankerfix Rapid Hanger	min. 110		D112.de, D152.de	•		
 Ankerfix Rapid Hanger BASIC	min. 110		D112.de, D152.de	•		
 Nonius Hanger Bottom for CD 60/27	min. 130	•	D112.de, D113.de, D152.de, D124.de, D127.de, D282.de		•	
 Nonius stirrup for CD 60/27	min. 130	•	D112.de, D152.de, D124.de, D127.de, D282.de		•	
 Nonius stirrup for UA 50/40	min. 130	•	D116.de, D286.de		•	
 Universal Bracket 120 for CD 60/27	5 – 100	•	D112.de, D124.de, D127.de, D152.de, D281.de, D282.de, D612.de, W623.de, W683.de			•
 Universal Bracket 200 for CD 60/27	5 – 180		D112.de, D124.de, D127.de, D152.de, D612.de			•
 Universal Bracket 120 for wood 50 mm	5 – 100		D111.de, D116.de, D151.de, D611.de			•
 Adjustable Universal Bracket for CD 60/27	35 – 85		D112.de, D152.de, D124.de, D127.de			•
 Adjustable Damping Universal Bracket for CD 60/27	40 – 90		D112.de, D152.de, D124.de, D127.de			•
 Damping Universal Bracket 120 mm for CD 60/27	15 – 110		D112.de, D124.de, D127.de, D152.de, D612.de, W623.de			•
 Damping Universal Bracket 200 mm for CD 60/27	15 – 190		D112.de, D124.de, D127.de, D152.de, D612.de			•
 Adjusting Clip for CD 60/27 incl. screw	4		D152.de, D612.de			•
 Direct Bracket for CD 60/27	4 compare D11.de		D124.de			•
 Clip Fastener for CD 60/27	7 – 27		D152.de, D612.de			•
 Resilient Channels	28		D153.de, D613.de, W554.de, W556.de			•
 Hat-Shaped Channel	15		D112.de, D153.de, D288.de, W684.de			•



### Universal Bracket for CD 60/27, galvanized or C3-C5M



#### Universal Bracket for CD 60/27 and Universal Bracket for CD 60/27 C3-C5M for fastening of the frame of suspended ceilings and wall linings

With the Universal Bracket minimum suspension heights of at least 5 mm can be implemented. At the same time, the Universal Bracket enables larger tolerances for height adjustment with an uneven substrate. Anchoring to the substrate can be undertaken in the centre or on the tabs of the Universal Bracket. The Universal Bracket consists of galvanized sheet metal, or in case of enhanced corrosion protection made of specially coated, galvanized sheet metal. Universal Brackets C3-C5M are pre-bent.

#### Properties and added value

- Ceiling lining upper grid level from 5 to 180 mm with just one component
- Universal Bracket C3-C5M for ceiling lining upper grid level from 5 to 100 mm with just one component
- On request almost no loss of space with a suspended ceiling
- Simple profile attachment
- Minimum suspension height in conjunction with the maximum height adjustment

#### Related products

- Ceiling Steel Dowel for anchoring of the Universal Bracket in concrete
- Ceiling steel dowel corrosion protection A4 for anchoring of the Universal Bracket C3-C5M in concrete
- Multi-Purpose Screw FN 4.3 x 35 mm for fastening of the Universal Bracket to the centre of timbers, ceiling profiles or in trapezoid sheet metal up to 0.25 kN
- 2x Drywall Screw TN coarse-pitch thread TN 3.9 x 35 mm in the tabs for fastening the Universal Bracket into the timber
- 2x Metal Screw LN 3.5 x 11 mm for screw fastening of the CD Channel with the Universal Bracket
- 2x Wet room screw LN 3.9 x 11 mm for screw fastening of the galvanized CD Channel with the Universal Bracket C3-C5M

#### Technical data

Table 3: Technical data Universal Bracket for CD 60/27

Technical data	Unit	Universal Bracket 120 mm	Universal Bracket 200 mm	Universal Bracket C3-C5M	Standard
Reaction to fire	–	A1	A1	A2-s1, d0	EN 13501-1
Corrosion protection class	–	B	B	C or D	EN 13964
Loadbearing capacity	kN	0.4	0.4	0.4	DIN 18168-1
Upper grid level	mm	5 – 100	5 – 180	5 – 100	–
Metal gauge	mm	0.9	0.9	0.9	–

#### Tests and certificates

In compliance with EN 13964, the product is subject to initial type testing and continuous factory production control and bears the CE marking. The product is compliant with all demands of the DIN 18168-1.

#### Construction

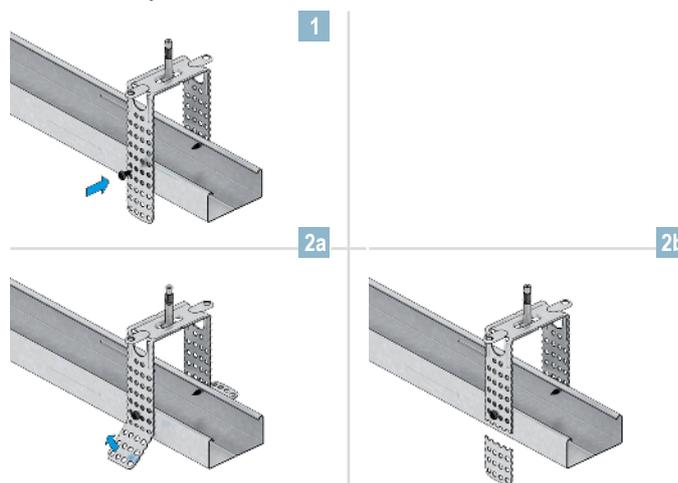
##### Ceiling fastening

Using 2x Knauf Drywall Screw in the tabs into timber or using Multi-Purpose Screw FN in the center of the timber or trapezoid sheet metal (pilot drill hole if necessary)

With Knauf Ceiling Steel Dowels in concrete



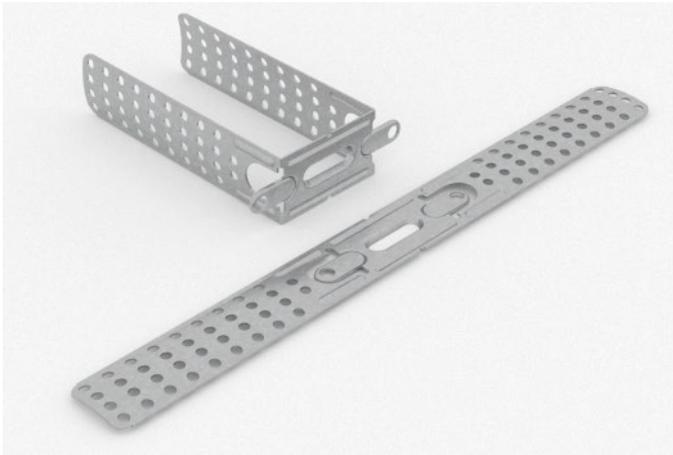
#### Installation steps



#### Application example with Knauf Drywall Screws



### Universal Bracket for timber battens and UA profiles, galvanized



#### Universal Bracket for timber battens for fastening of the frame of suspended ceilings and wall linings for wooden battens and UA profiles

Using the Universal Bracket made of sheet metal for wooden battens, minimum suspension heights of at least 5 mm can be implemented. At the same time, the Universal Bracket enables larger tolerances for height adjustment with an uneven substrate. Anchoring to the substrate can be undertaken alternatively in the centre or on the tabs of the Universal Bracket.

#### Properties and added value

- Ceiling lining upper grid level from 5 to 100 mm with just one component
- Easy fastening of the wooden battens and UA profiles
- Minimum suspension height in conjunction with the maximum height adjustment

#### Related products

- Ceiling Steel Dowel for anchoring of the Universal Bracket in concrete
- Multi-Purpose Screw FN 4.3 x 35 mm for fastening of the Universal Bracket to the centre of timber or in trapezoid sheet metal
- 2x Drywall Screw TN coarse-pitch thread TN 3.9 x 35 mm in the tabs for fastening the Universal Bracket into the timber
- 2x Drywall Screws TN fine-pitch thread LN 3.5 x 25 mm for screw fastening the timber batten with the Universal Bracket
- Metal Screw LB with cutting point for screw fastening of the UA Profile with the Universal Bracket

#### Tests and certificates

In compliance with EN 13964, the product is subject to initial type testing and continuous factory production control and bears the CE marking. The product is compliant with all demands of the DIN 18168-1.

#### Technical data

Table 4: Technical data Universal Bracket for timber batten 50 mm and UA profile

Technical data	Unit	Universal Bracket 120 mm	Standard
Reaction to fire	–	A1	EN 13501-1
Corrosion protection class	–	B	EN 13964
Loadbearing capacity	kN	0.4	DIN 18168-1
Upper grid level	mm	5 – 100	–
Metal gauge	mm	0.9	–

#### Construction

##### Ceiling fastening

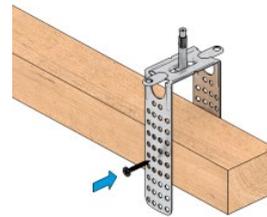
Using 2x Knauf Drywall Screw in the tabs into timber or using Multi-Purpose Screw FN in the center of the timber or trapezoid sheet metal (pilot drill hole if necessary)

With Knauf Ceiling Steel Dowels in concrete



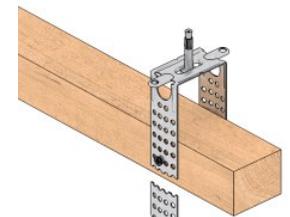
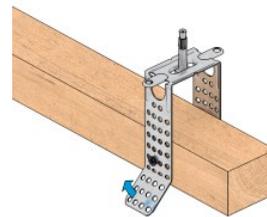
#### Installation steps

1



2a

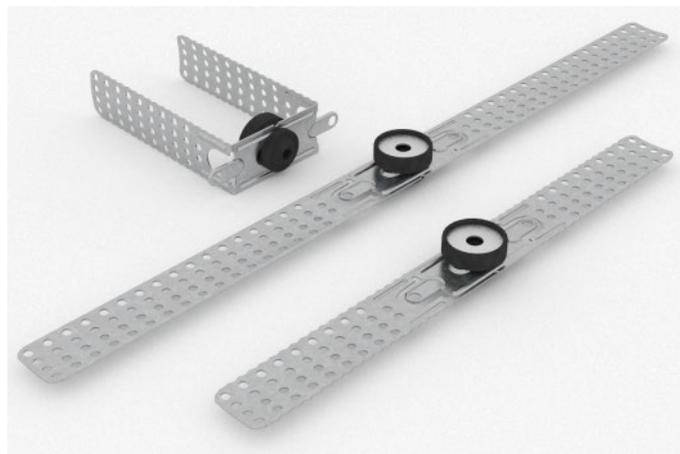
2b



#### Application example with Knauf Drywall Screws



### Damping Universal Bracket for CD 60/27, galvanized



#### Damping Universal Bracket for CD 60/27 for acoustically decoupled fastening of the frame of suspended ceilings and wall linings

The Damping Universal Bracket is an acoustically decoupled suspender made of sheet metal. Minimum suspension heights of at least 15 mm can be implemented. Anchoring is in the center of the substrate. It is particularly suitable for slim, highly sound insulating ceilings and furring. Anchoring in the substrate is in the centre through the circular perforation. The use of side tabs is not permissible.

#### Properties and added value

- Acoustical decoupling using rubber buffers
- On request almost no loss of space with a suspended ceiling
- Simple profile attachment
- Ceiling lining upper grid level from 15 to 190 mm with just one component

#### Related products

- Multi-Purpose Screw FN 4.3 x 65 mm for fastening of the Universal Bracket to the centre of the timber
- 2x Metal Screws LN 3.5 x 11 mm for screw fastening of the CD Channel with the Damping Universal Bracket

#### Tests and certificates

In compliance with EN 13964, the product is subject to initial type testing and continuous factory production control and bears the CE marking. The product is compliant with all demands of the DIN 18168-1.

#### Technical data

Table 5: Technical data Damping Universal Bracket for CD 60/27

Technical data	Unit	Damping Universal Bracket 120 mm	Damping Universal Bracket 200 mm	Standard
Reaction to fire	–	A1	A1	EN 13501-1
Corrosion protection class	–	B	B	EN 13964
Loadbearing capacity	kN	0.4	0.4	DIN 18168-1
Upper grid level	mm	15 – 110	15 – 190	–
Metal gauge	mm	0.9	0.9	–

#### Construction

##### Ceiling fastening

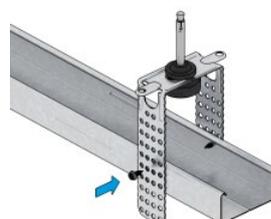
With Knauf Multi-Purpose Screw FN in timber or trapezoid sheet metal (pilot drill hole if necessary). Fastening is undertaken only through the circular perforation in the rubber buffer.

Using fasteners and anchors suitable for the substrate

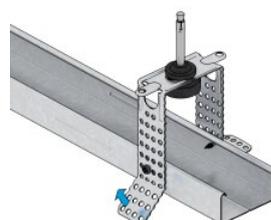


#### Installation steps

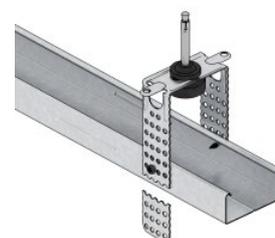
1



2a



2b



#### Application examples



**Damping Universal Bracket for wooden battens, galvanized**



**Damping Universal Bracket for wooden battens for acoustically decoupled fastening of the frame for suspended ceilings made of wooden battens**

The Damping Universal Bracket for wooden battens is an acoustically decoupled suspender made of sheet metal. Minimum suspension heights of at least 15 mm can be implemented. Anchoring in the substrate is in the centre through the circular perforation. The use of side tabs in not permissible.

**Properties and added value**

- Acoustical decoupling using rubber buffers
- On request almost no loss of space with a suspended ceiling
- Easy fastening of the wooden battens
- Minimum suspension height in conjunction with the maximum height adjustment

**Related products**

- Multi-Purpose Screw FN 4.3 x 65 mm for anchoring of the Damping Universal Bracket to the centre of timber or in trapezoid sheet metal
- 2x Drywall Screws TN coarse-pitch thread LN 3.9 x 35 mm for screw fastening the timber batten with the Damping Universal Bracket

**Tests and certificates**

In compliance with EN 13964, the product is subject to initial type testing and continuous factory production control and bears the CE marking. The product is compliant with all demands of the DIN 18168-1.

**Technical data**

Table 6: Technical data Damping Universal Bracket for timber battens

Technical data	Unit	Damping Universal Bracket 50 mm	Standard
Reaction to fire	–	A1	EN 13501-1
Corrosion protection class	–	B	EN 13964
Loadbearing capacity	kN	0.4	DIN 18168-1
Upper grid level	mm	15 – 30	–
Metal gauge	mm	0.9	–

**Construction**

**Ceiling fastening**

With Knauf Multi-Purpose Screw FN 4.3 x 65 mm in timber or trapezoid sheet metal (pilot drill hole if necessary). Fastening is undertaken only through the circular perforation in the rubber buffer.

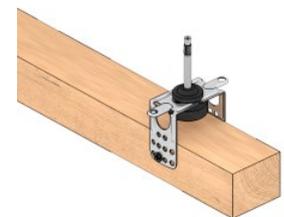
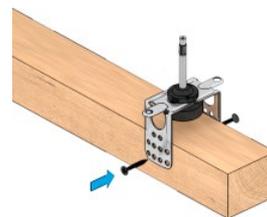
Using fasteners and anchors suitable for the substrate



**Installation steps**

1

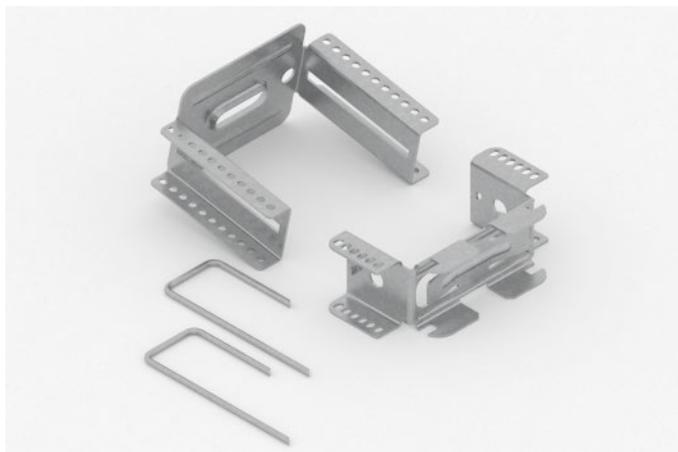
2



**Application examples**



### Adjustable Universal Bracket for CD 60/27, galvanized



#### Adjustable Universal Bracket for CD 60/27 for subsequent adjustable fastening of the frame for the suspended ceiling

The adjustable Universal Bracket made of sheet metal enables easy, subsequent adjustment of the upper grid level without screwing adjustment due to the combination of splint fixing and simple click-in of the profiles.

#### Properties and added value

- Upper grid level of 35 to 85 mm
- Delivery incl. top section, bottom section and splints/pins
- Simple profile attachment
- No screw fastening with the profile required, it is simply suspended

#### Related products

- Ceiling Steel Dowel for anchoring of the suspender in concrete
- Drywall Screws TN for anchoring of the suspender in timber
- Multi-Purpose Screw FN 4.3 x 35 mm for anchoring of the suspender in trapezoid sheet metal up to 0.25 kN

#### Tests and certificates

In compliance with EN 13964, the product is subject to initial type testing and continuous factory production control and bears the CE marking. The product is compliant with all demands of the DIN 18168-1.

#### Technical data

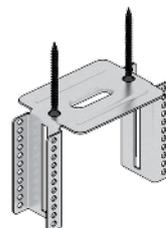
Table 7: Technical data Adjustable Universal Bracket for CD 60/27

Technical data	Unit	Value	Standard
Reaction to fire	–	A1	EN 13501-1
Corrosion protection class	–	B	EN 13964
Loadbearing capacity	kN	0.4	DIN 18168-1
Upper grid level	mm	35 – 85	–
Metal gauge	mm	0.9	–

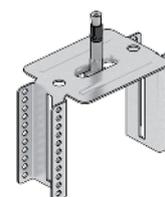
#### Construction

##### Ceiling fastening

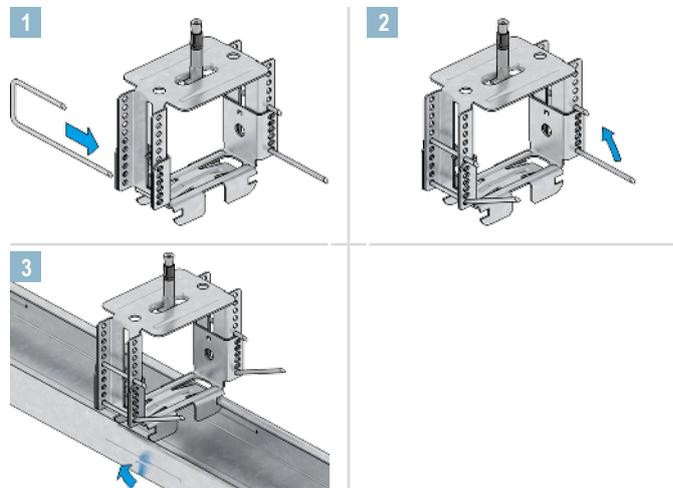
Using 2x Knauf Drywall Screws through the circular perforation into the timber or through the oblong hole with the Multi-Purpose Screw FN in the timber or trapezoid sheet metal (pilot drill hole if necessary)



With Knauf Ceiling Steel Dowels in concrete



#### Installation steps



#### Application examples



**Adjustable Damping Universal Bracket for CD 60/27, galvanized**



**Adjustable Damping Universal Bracket for CD 60/27 for acoustic decoupling, subsequent adjustable fastening of the frame for the suspended ceiling**

The acoustically decoupled adjustable Damping Universal Bracket enables easy, subsequent adjustment of the upper grid level without screw adjustment due to the combination of splint fixing and simple clicking in of the profiles.

**Properties and added value**

- Acoustical decoupling
- Upper grid level from 40 to 90 mm
- Delivery incl. top section, bottom section and splints/pins
- Simple profile attachment
- Noise decoupling via rubber buffers
- Enhanced flexibility through simple and fast adjustment of the suspender as the top and bottom section are fixed by two Nonius pins

**Related products**

- Multi-Purpose Screw FN 4.3 x 65 mm for anchoring of the Damping Universal Bracket to the centre of timber or in trapezoid sheet metal

**Tests and certificates**

In compliance with EN 13964, the product is subject to initial type testing and continuous factory production control and bears the CE marking. The product is compliant with all demands of the DIN 18168-1.

**Construction**

**Technical data**

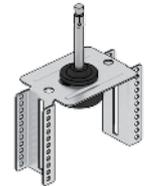
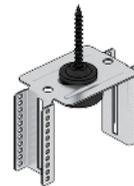
Table 8: Technical data Adjustable Damping Universal Bracket for CD 60/27

Technical data	Unit	Value	Standard
Reaction to fire	–	A1	EN 13501-1
Corrosion protection class	–	B	EN 13964
Loadbearing capacity	kN	0.4	DIN 18168-1
Upper grid level	mm	40 – 90	–
Metal gauge	mm	0.9	–

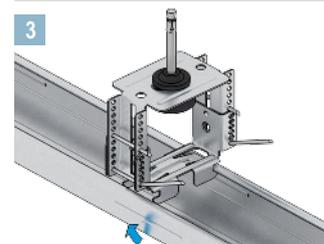
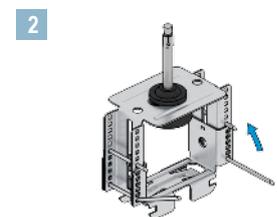
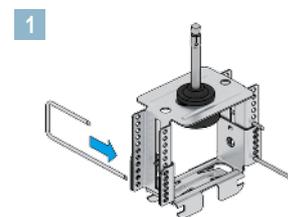
**Ceiling fastening**

With Knauf Multi-Purpose Screw FN at centre in timber or in trapezoid sheet metal (pilot drill hole if necessary)

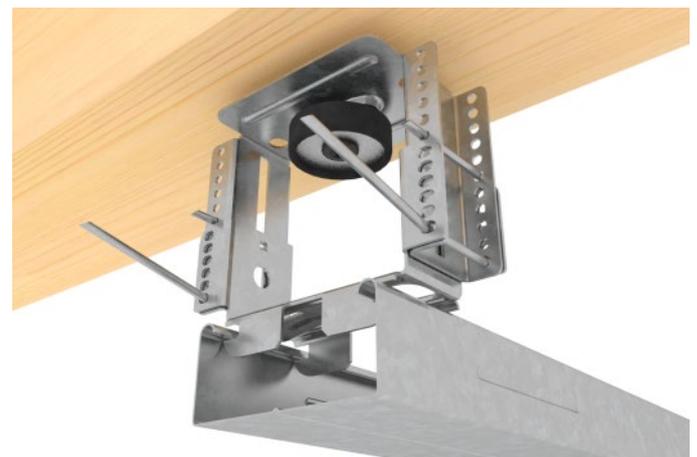
Use fasteners and anchors suitable for the substrate



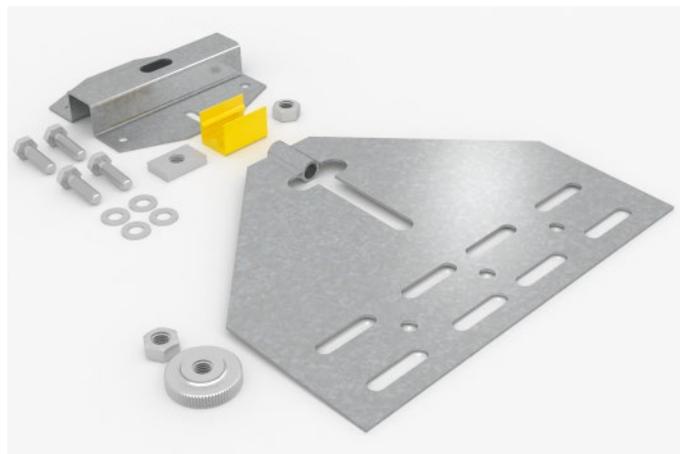
**Installation steps**



**Application examples**



### UA centre suspension, galvanized



#### UA centre suspension as a center support for free-spanning ceilings with large span widths

The UA centre suspension is a load-bearing capacity suspension made of sheet metal consisting of a UA centre suspension top, bottom as well as an M10 threaded rod (not in scope of delivery) As a linear centre suspension for free-spanning ceilings it facilitates an increase in the span width of the respective ceiling.

#### Properties and added value

- High stability
- Easy installation
- Large span widths possible
- Assists in spanning large distances

#### Related products

- UA profile

#### Tests and certificates

In compliance with EN 13964, the product is subject to initial type testing and continuous factory production control and is marked with a CE marking. The product is compliant with all demands of the DIN 18168-1.

#### Technical data

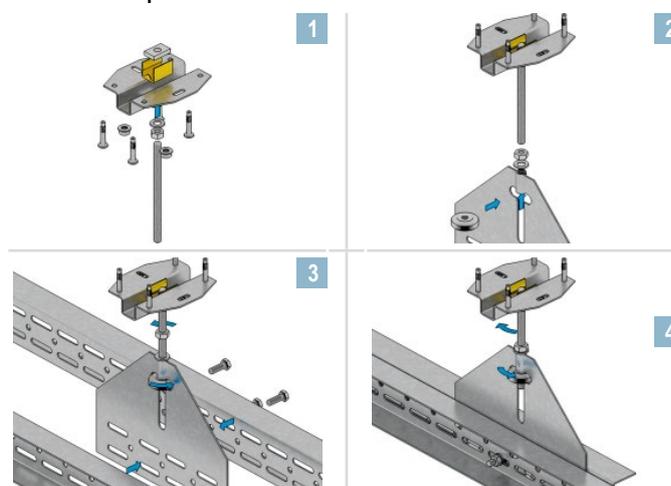
Table 9: UA centre suspension technical data

Technical data	Unit	Value	Standard
Reaction to fire	–	A1	EN 13501-1
Corrosion protection class	–	B	EN 13964
Loadbearing capacity	kN	4.0	DIN 18168-1
Upper grid level	mm	≥ 235	–
Metal gauge	mm	2	–

#### Construction

Notes	The fastening of the UA centre suspension top is undertaken using at least two fasteners/anchors each with a loadbearing capacity of $\geq 2.0$ kN.
	In wooden joists the attachment is undertaken using six Multi-Purpose Screws FN 4.3 x 65 mm and washers D = 20 mm, observing the perimeter spacings acc. to DIN EN 1995-1-1:2010-12 Design of timber structures.
	Supporting profiles Connect the UA supporting profile symmetrically with M8 bolts using the oblong hole on the lower section.

#### Installation steps



#### Application examples



**Ankerfix Rapid Hanger for CD 60/27, galvanized**



**Ankerfix Rapid Hanger for safe fastening of the frame of suspended ceilings with the Hanging Wire**

Using the Ankerfix Rapid Hanger made of sheet metal, the carrying channels of the suspended ceiling can be quickly and easily suspended with the Hanging Wire. Thanks to the special rotary lever lock the profiles of the grid can be easily offset even after they are suspended. The Ankerfix Rapid Hanger is significantly more comfortable to hold and install than other suspenders with a quick clamp spring thanks to the flattened spring edge.

**Properties and added value**

- Easy installation
- Rounded support arms for optimum contact in the Knauf profiles
- Perfectly stable with the Hanging Wire
- Optimized corrugations for improved rigidity
- Rotary lever for easy subsequent adjustment of the profiles without prior removal
- Fastest method of suspension
- Easy, stepless readjustment of the suspension height possible thanks to quick clamp spring

**Related products**

- Ceiling Steel Dowel for anchoring of the Ankerfix Rapid Hanger in concrete
- Multi-Purpose Screw FN 4.3 x 35 mm for anchoring of the Ankerfix Rapid Hanger to the centre of timbers, ceiling profiles or in trapezoid sheet metal up to 0.25 kN
- Hanging Wire
- Double Cleat

**Technical data**

Table 10: Technical data Ankerfix Rapid Hanger for CD 60/27

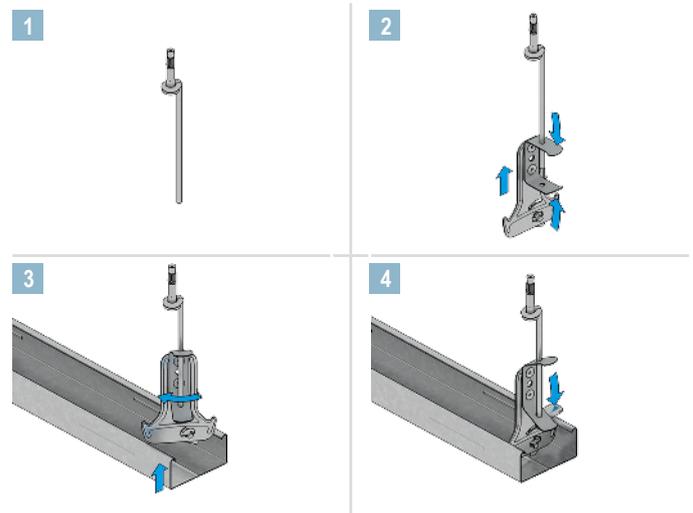
Technical data	Unit	Value	Standard
Reaction to fire	–	A1	EN 13501-1
Corrosion protection class	–	B	EN 13964
Loadbearing capacity	kN	0.25	DIN 18168-1
Upper grid level	mm	≥ 110	–

**Tests and certificates**

In compliance with EN 13964, the product is subject to initial type testing and continuous factory production control and bears the CE marking. The product is compliant with all demands of the DIN 18168-1.

**Construction**

**Installation steps**



**Note** Subsequent offset adjustment of the CD Channel possible. Locking the connection with the practical rotary lever

**Application examples**



### Ankerfix Rapid Hanger BASIC, galvanized



#### Ankerfix Rapid Hanger BASIC for CD 60/27 for safe fastening of the frame of suspended ceilings with the Hanging Wire

Using the Ankerfix Rapid Hanger BASIC made of sheet metal, the carrying channels of the suspended ceiling can be quickly and easily suspended with the Hanging Wires. Thanks to the flattened spring edge, the Ankerfix Rapid Hanger BASIC is significantly more comfortable to hold and install than other suspenders with a quick clamp spring.

#### Properties and added value

- Counterpressure nose for firm seat in the profile and therefore rattle-free
- Flattened spring ends for installation comfort resulting in less risk of injury.
- Optimized flange for an improved rigidity
- Easy installation
- Rounded support arms for optimum contact in the Knauf profiles
- Perfectly stable with the Hanging Wire
- Easy, stepless readjustment of the suspension height possible thanks to quick clamp spring.

#### Related products

- Ceiling Steel Dowel for anchoring of the Ankerfix Rapid Hanger in concrete
- Multi-Purpose Screw FN 4.3 x 35 mm for anchoring of the Ankerfix Rapid Hanger to the centre of timbers, ceiling profiles or in trapezoid sheet metal up to 0.25 kN
- Hanging Wire
- Double Cleat

#### Technical data

Table 11: Technical data Ankerfix Rapid Hanger BASIC for CD 60/27

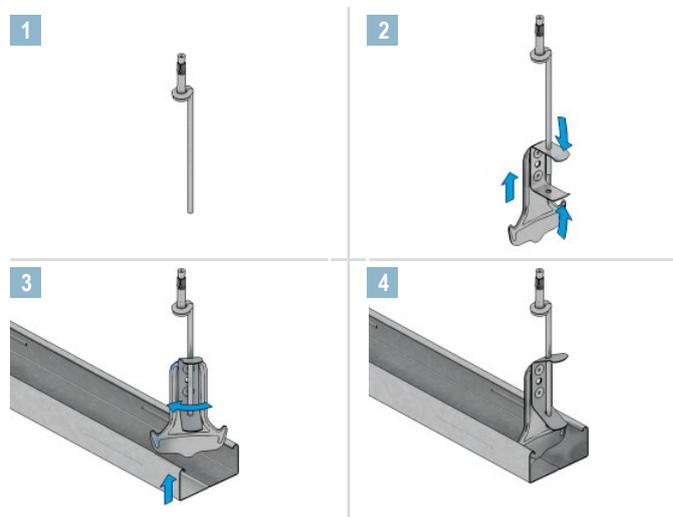
Technical data	Unit	Value	Standard
Reaction to fire	–	A1	EN 13501-1
Corrosion protection class	–	B	EN 13964
Loadbearing capacity	kN	0.25	DIN 18168-1
Upper grid level	mm	≥ 110	–
Metal gauge	mm	0.9	–

#### Tests and certificates

In compliance with EN 13964, the product is subject to initial type testing and continuous factory production control and bears the CE marking. The product is compliant with all demands of the DIN 18168-1.

#### Construction

##### Installation steps



#### Application examples



Double Cleat, galvanized



Double cleat for extension and connection of two Hanging Wires

The double cleat is a clever small helper made of sheet metal and is used for extending Hanging Wires. Ensure that only one extension is mounted for each suspension point. Thanks to the lightly tapered edges the force required to compress the cleats is reduced considerably. Thus the Hanging Wire can be more easily threaded into the holes on the Double Cleat. Furthermore, the risk of injury is reduced by the taper and thus the ease and speed of installation is improved.

Properties and added value

- Flattened spring ends for handling comfort
- Stepless adjustment
- Easy extension with Hanging Wire
- Easy installation

Related products

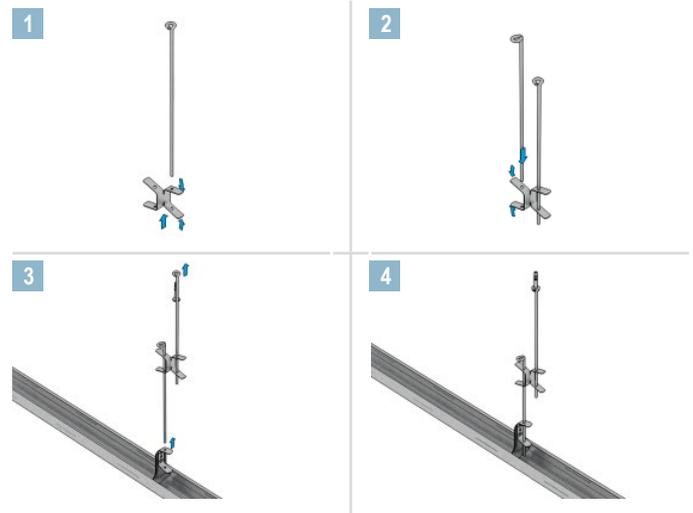
- Hanging Wire
- Ankerfix Rapid Hanger

Tests and certificates

In compliance with EN 13964, the product is subject to initial type testing and continuous factory production control and bears the CE marking. The product is compliant with all demands of the DIN 18168-1.

Construction

Installation steps



Application examples

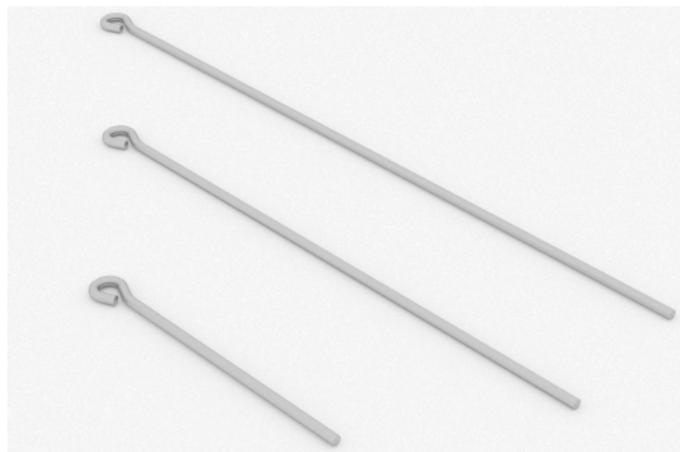


Technical data

Table 12: Double Cleat technical data

Technical data	Unit	Value	Standard
Reaction to fire	–	A1	EN 13501-1
Corrosion protection class	–	B	EN 13964
Loadbearing capacity	kN	0.25	DIN 18168-1
Upper grid level	mm	≥ 110	–
Metal gauge	mm	0.9	–

### Hanging Wire, galvanized



#### Hanging Wire for fast fastening of the frame of suspended ceilings

The Hanging Wire is a particularly cost-effective method to suspend suspended ceilings with CD 60/27 profiles in the load area up to 0.25 kN. It offers faster installation and a higher degree of flexibility in combination with the appropriate suspenders. Two wires for larger suspension heights can be connected using the double cleat.

#### Properties and added value

- Cost-effective and fast type of suspension
- Suspension height can be adjusted as required
- Easy readjustment of the suspension height possible thanks to quick clamp spring

#### Related products

- Ankerfix rapid hanger
- Ankerfix Rapid Hanger BASIC
- Ceiling Steel Dowel for anchoring of the Hanging Wire in concrete
- Multi-Purpose Screw FN 4.3 x 35 mm for anchoring of the Hanging Wire to the centre of timbers, ceiling profiles or in trapezoid sheet metal up to 0.25 kN
- Double Cleat

#### Technical data

Table 13: Hanging Wire technical data

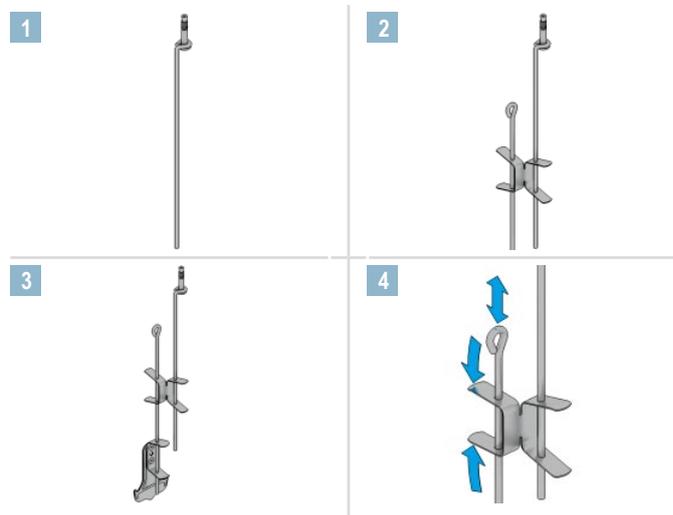
Technical data	Unit	Value	Standard
Reaction to fire	–	A1	EN 13501-1
Corrosion protection class	–	B	EN 13964
Loadbearing capacity	kN	0.25	DIN 18168-1
Wire diameter	mm	4	–
Length	mm	250	–
Customized lengths on request	mm	375	
	mm	500	
	mm	750	
	mm	1000	
	mm	1500	

#### Tests and certificates

In compliance with EN 13964, the product is subject to initial type testing and continuous factory production control and bears the CE marking. The product is compliant with all demands of the DIN 18168-1.

#### Construction

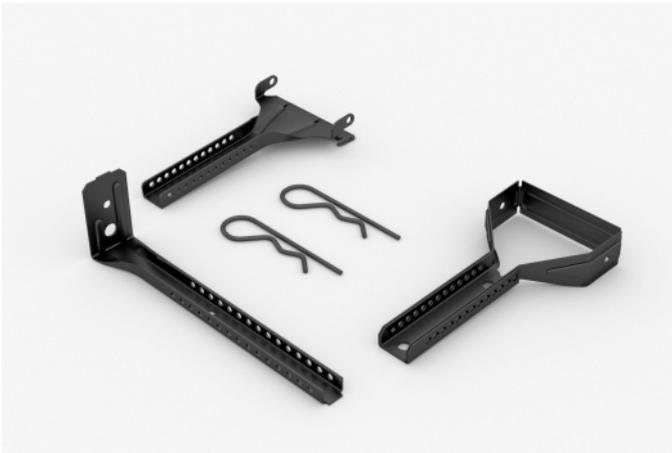
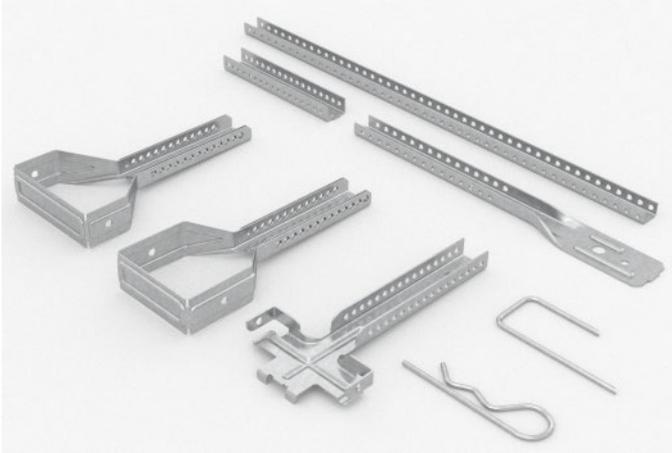
##### Installation steps



#### Application examples



## Nonius system



### Related products

- Nonius Hanger Top, galvanized or C3-C5M
- Nonius Swing Top, galvanized
- Nonius Hanger Bottom, galvanized or C3-C5M
- Nonius Suspension Profile, galvanized
- Nonius connector, galvanized
- Nonius Clip, galvanized or C3-C5M
- Nonius Pin, galvanized
- Nonius Stirrup for CD, galvanized
- Nonius Stirrup for UA, galvanized or C3-C5M
- Ceiling steel dowel corrosion protection A4
- Ceiling Steel Dowel, galvanized

### Tests and certificates

In compliance with EN 13964, the product is subject to initial type testing and continuous factory production control and bears the CE marking. The product is compliant with all demands of the DIN 18168-1 (with the exception of the Nonius Clip and Nonius Pin)

### Nonius system for secure attachment of ceilings

The Nonius system is a suspender system for secure attachment of ceilings with larger suspension height and higher weight in concrete, timber or trapezoid sheet metal. It consists of a Nonius Hanger Top anchored to the basic ceiling which is connected to a Nonius suspender with a Nonius splint or Nonius top pin. The Nonius system can be extended when required by a connector and the suspension profile. The suspension can also be protected against corrosion.

### Properties and added value

- Larger suspension heights can be achieved
- For ceiling load classes up to 0.50 kN/m<sup>2</sup> + 0.15 kN/m<sup>2</sup> multi-level ceiling system
- Stable connection between Nonius Hanger Top and Nonius Hanger Bottom with 1x Nonius pin with curved limb or 2x Nonius clips
- Full adjustment of the height possible
- Suitable for fire resistance requirements

### Technical data

Table 14: Nonius system technical data

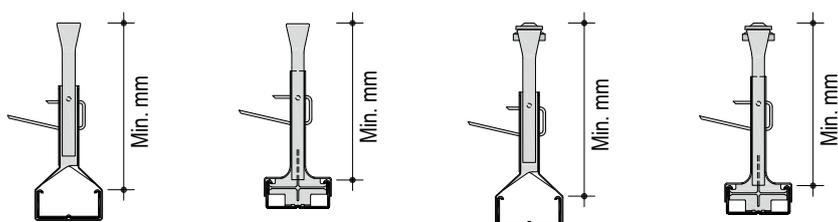
Technical data	Unit	Value	Standard
Reaction to fire	–	A1	EN 13501-1
Reaction to fire, corrosion protection	–	A2-s1, d0	EN 13501-1
Durability protective treatment class			
Nonius system	–	B	EN 13964
Nonius system, protected against corrosion	–	C or D	EN 13964
Load bearing capacity class depending on the Nonius Hanger Bottom	kN	0.4	DIN 18168-1

### Suspension heights

Table 15: Nonius system suspension heights

Length Nonius Top Section	Maximum upper grid level	Minimum upper grid level	Minimum upper grid level Nonius Top shortened
	With Nonius Bottom up to the CD carrying channel upper edge	With Nonius Bottom up to the CD carrying channel upper edge	With Nonius Bottom up to the CD carrying channel upper edge
200 mm	230 mm	160 mm	160 mm
300 mm	330 mm	250 mm	160 mm
400 mm	430 mm	350 mm	160 mm
500 mm	530 mm	450 mm	160 mm
600 mm	630 mm	550 mm	160 mm
700 mm	730 mm	650 mm	160 mm
800 mm	830 mm	750 mm	160 mm
900 mm	930 mm	850 mm	160 mm
1000 mm	1030 mm	950 mm	160 mm

Minimum overlap 40 mm in the joint area of the Nonius system required.



Nonius Hanger Top, galvanized or C3-C5M



Technical data

Table 16: Nonius Hanger Top technical data

Technical data	Unit	Value	
Length <i>Customized lengths on request</i>		Sheet metal	C3-C5M
	mm	200	200
	mm	300	300
	mm	400	400
	mm	500	–
	mm	600	600
	mm	700	–
	mm	800	–
	mm	900	–
	mm	1000	1000
Metal gauge	mm	1.0	1.0

Nonius Swing Top, galvanized



Technical data

Table 17: Nonius Swing Top technical data

Technical data	Unit	Value
Length <i>Customized lengths on request</i>	mm	200
	mm	300
	mm	400
	mm	500
	mm	500
Metal gauge	mm	1.0

Nonius Suspension Profile, galvanized



Technical data

Table 18: Nonius Suspension Profile technical data

Technical data	Unit	Value
Length	mm	3000
Width	mm	12
Height	mm	8
Metal gauge	mm	1.0

Nonius connector, galvanized



Technical data

Table 19: Nonius Connectors technical data

Technical data	Unit	Value
Length	mm	90
Metal gauge	mm	1.0

**Nonius Hanger Bottom, galvanized or C3-C5M**



**Technical data**

Table 20: Nonius Hanger Bottom technical data

Technical data	Unit	Value
Length	mm	130
Metal gauge	mm	1.0

**Nonius Stirrup for CD 60/27, galvanized, UA 50/40, galvanized or C3-C5M**



**Technical data**

Table 21: Nonius Stirrup technical data

Technical data	Unit	Value
Length	mm	126
Metal gauge	mm	0.7

Nonius Clip, galvanized or C3-C5M



Nonius Pin, galvanized



Technical data

Table 22: Nonius clip technical data

Technical data	Unit	Value
Length	mm	70
Wire diameter	mm	2.4

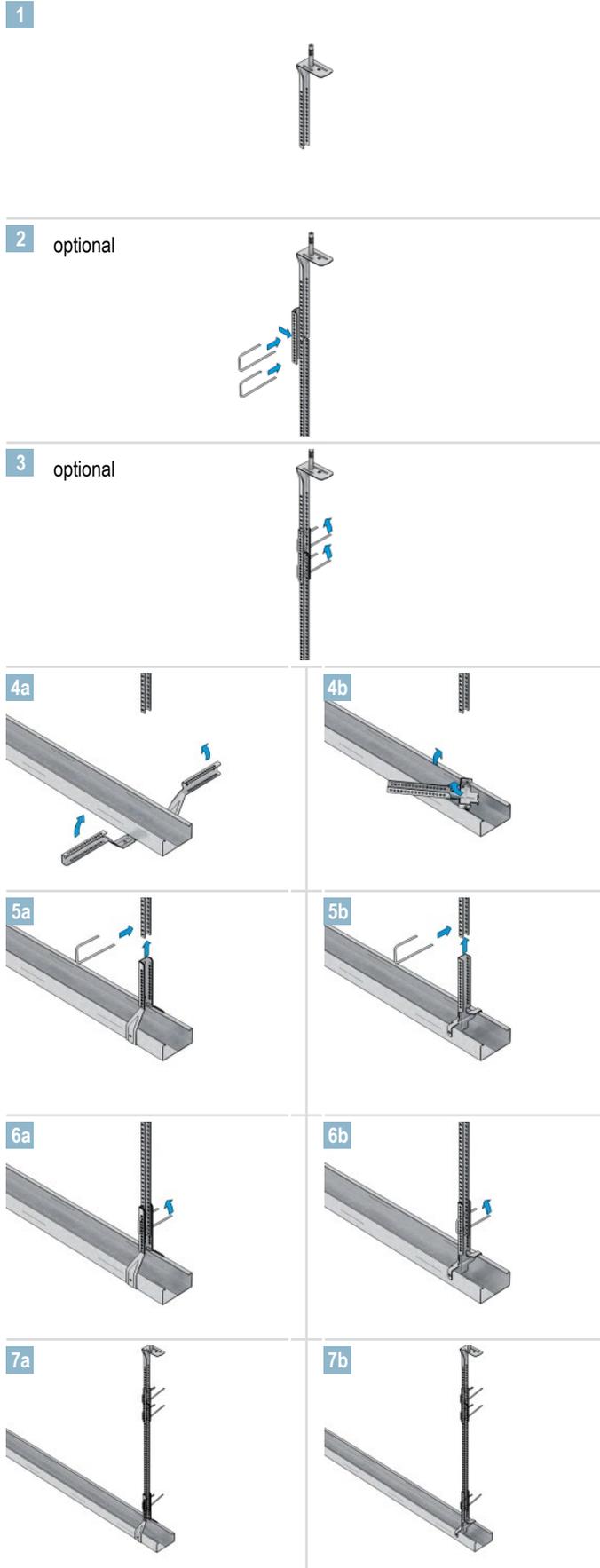
Technical data

Table 23: Nonius Pin technical data

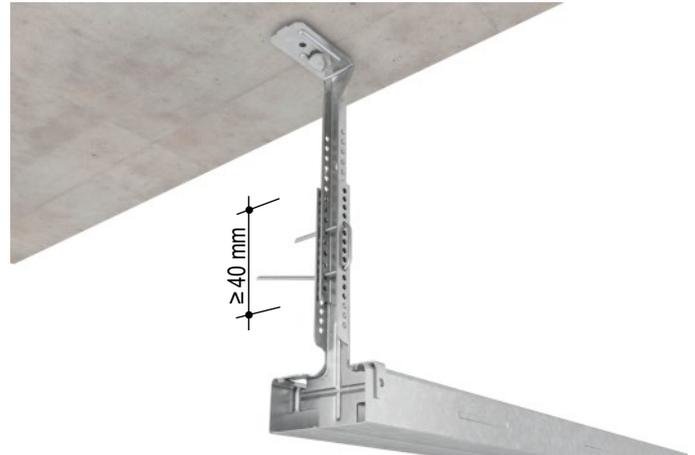
Technical data	Unit	Value
Length	mm	70
Wire diameter	mm	2.5

**Nonius system design**

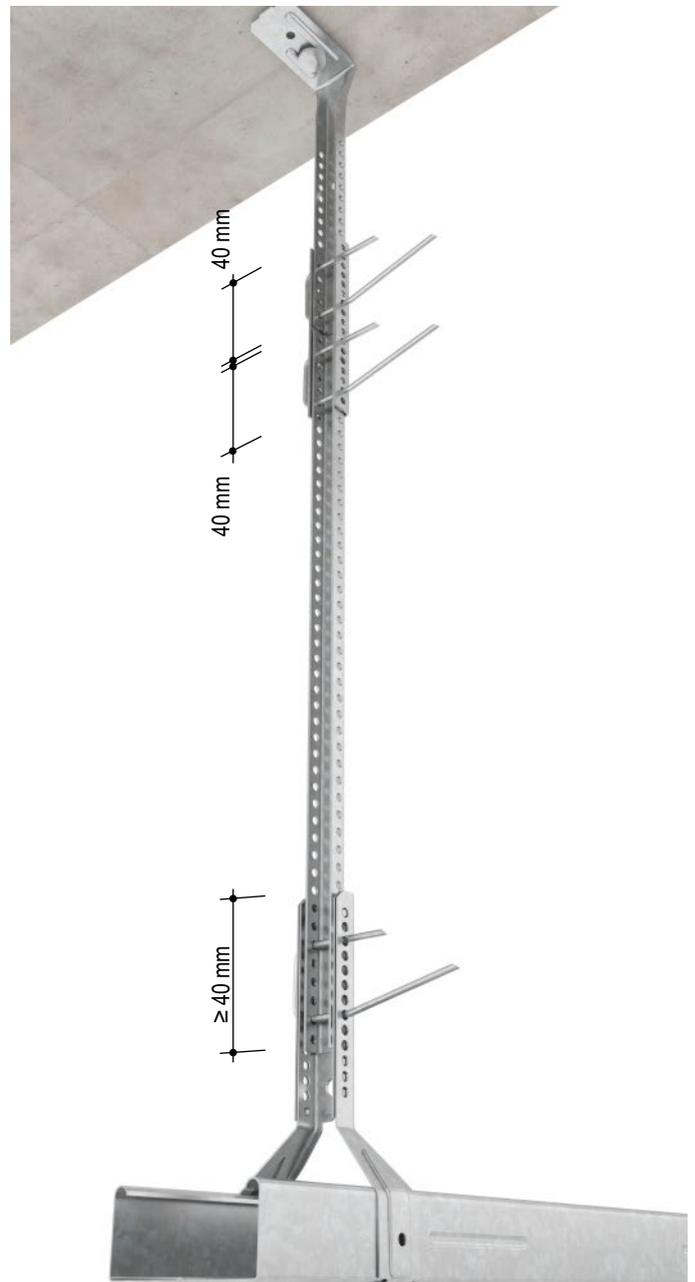
Installation steps



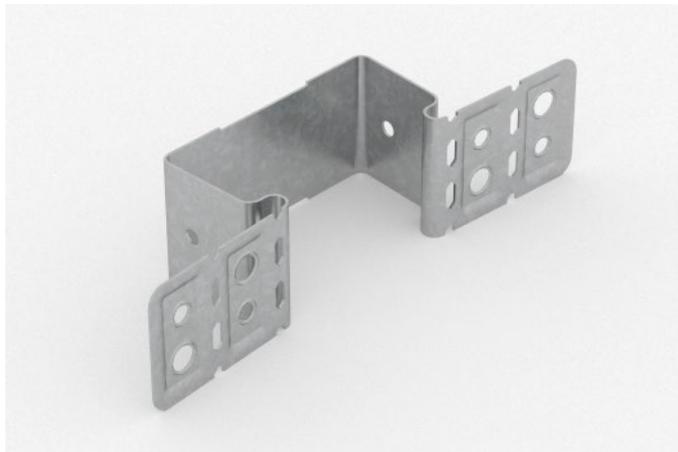
**Application example 1**



**Application example 2**



### Clip Fastener, galvanized



#### Clip Fastener for CD 60/27 for direct fastening of CD profiles to timber

With the Clip Fastener made of sheet metal an upper grid level from 7 mm can be implemented. At the same time, the Clip Fastener enables a tolerance compensation with uneven substrates up to 20 mm. The tolerance compensation can be undertaken by simply pulling or pushing.

#### Properties and added value

- Adjustment up to 24 mm possible
- Easy installation
- No loss of space with the suspended ceiling (with an upper grid level from 7 mm)
- Surrounds the profile

#### Related products

- Multi-Purpose Screws FN or Drywall Screws TN
- Anchoring to the joists with
  - 2x Knauf Drywall Screws TN 3.5 x 35 mm or
  - 2x Knauf Drywall Screws TN 3.9 x 35 mm or
  - 2x Knauf Multi-Purpose Screws FN 4.3 x 35 mm

#### Technical data

Table 24: Clip Fastener technical data

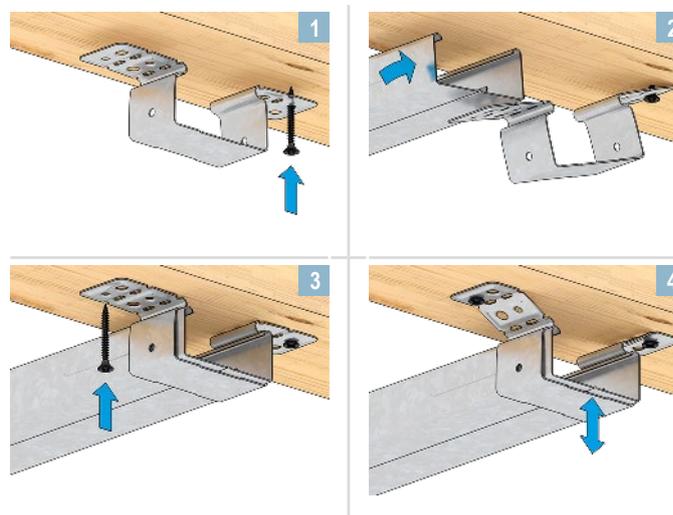
Technical data	Unit	Value	Standard
Reaction to fire	–	A1	EN 13501-1
Corrosion protection class	–	B	EN 13964
Loadbearing capacity	kN	0.15	DIN 18168-1
Tolerance compensation	mm	0 – 20	–
Upper grid level	mm	7 – 24	–
Length	mm	35	–
Metal gauge	mm	0.7	–

#### Tests and certificates

In compliance with EN 13964, the product is subject to initial type testing and continuous factory production control and bears the CE marking. The product is compliant with all demands of the DIN 18168-1.

#### Construction

##### Installation steps



#### Application examples



### Adjusting Clip, galvanized



#### Adjusting Clip for CD 60/27 for fastening of the frame of ceiling linings with height adjustment

With the Adjusting Clip made of sheet metal the integrated bolt can also be used to flexibly compensate for large height differences in the anchoring substrate. It thus enables the upper grid level of 5 to 60 mm. The Adjusting Clip can also be used on roof and ceiling constructions with the air tightness layer.

#### Properties and added value

- Freely adjustable for height adjustment up to 40 mm.
- Combination of Torx connection screw and clip
- Also suitable for the air tightness layer.
- Subsequent adjustment possible

#### Tests and certificates

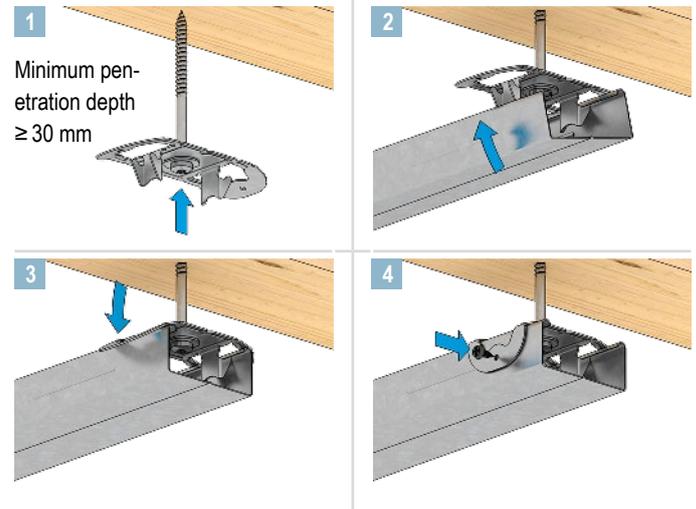
In compliance with EN 13964, the product is subject to initial type testing and continuous factory production control and bears the CE marking. The product is compliant with all demands of the DIN 18168-1.

#### Note

In case of fastening to wood joists or timber rafters under which an airtightness foil is applied, the area where the screw penetrates is to be reinforced with a 5 x 5 cm adhesive strip (Knauf Insulation LDS Soliplan). The adhesive strips must also be fixed with 4 staples to the wooden joist or the timber rafters

#### Construction

##### Installation steps



#### Notes

In case of subsequent levelling requirement, drill through the profile from below and tighten the Adjusting Clip with a screwdriver.  
 In case of pitched attic lining or demands on the fire resistance, fasten the Adjusting Clip on the side with Metal Screws LN 3.5 x 11 mm on the CD Channel.  
 In case of Wood Joist Ceiling Lining screw fastening of the Adjusting Clip with the CD Channel is not necessary.

#### Application examples



#### Technical data

Table 25: Adjusting Clip technical data

Technical data	Unit	Value	Standard
Reaction to fire	–	A1	EN 13501-1
Corrosion protection class	–	B	EN 13964
Loadbearing capacity	kN	0.15	DIN 18168-1
Upper grid level	mm	5 – 60	–
Minimum penetration depth	mm	30	–
Minimum penetration depth pitched attic lining without frictionally bonded connection to external wall below eaves, pitch	≤ 45°	mm	50
	≤ 60°	mm	60
	≤ 75°	mm	70
Length	mm	110	–
Screw length	mm	90	–

### Direct Bracket, galvanized



#### Direct Bracket for CD 60/27 for direct fastening in the multi-level ceiling system

The Direct Bracket made of sheet metal is a clip for direct fastening of metal grids of ceiling linings without tolerance compensation (multi-level ceiling system).

#### Properties and added value

- Maximum space saving due to minimum suspension height
- Easy installation

#### Related products

- Multi-Purpose Screws FN or Drywall Screws TN with coarse-pitch thread
- Metal Screw LN 3,5 x 11 mm for fastening of the Direct Bracket on the profile

#### Tests and certificates

In compliance with EN 13964, the product is subject to initial type testing and continuous factory production control and bears the CE marking. The product is compliant with all demands of the DIN 18168-1.

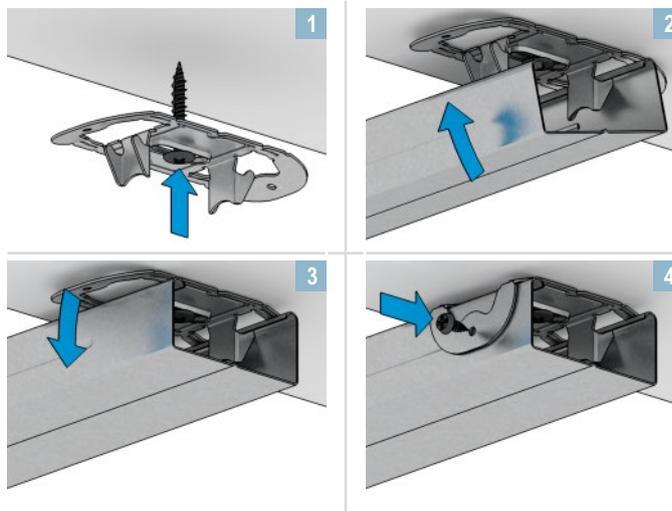
#### Technical data

Table 26: Direct Bracket technical data

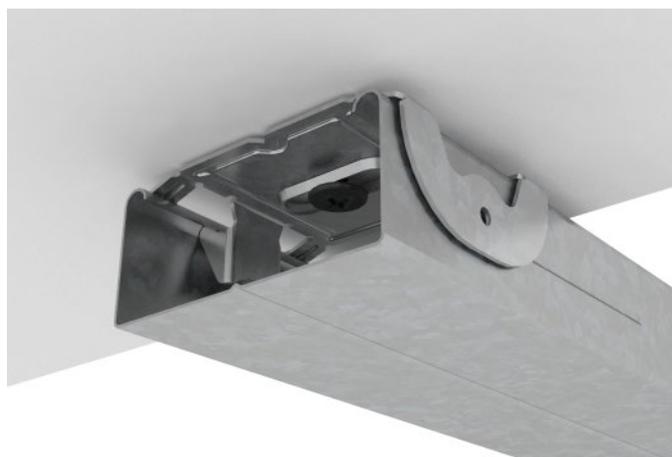
Technical data	Unit	Value	Standard
Reaction to fire	–	A1	EN 13501-1
Corrosion protection class	–	B	EN 13964
Load bearing capacity class without screw fastening	kN	0.15	DIN 18168-1
Load bearing capacity class with screw fastening	kN	0.25	DIN 18168-1
Length	mm	19	–
Upper grid level	mm	4	–
Metal gauge	mm	0.9	–

#### Construction

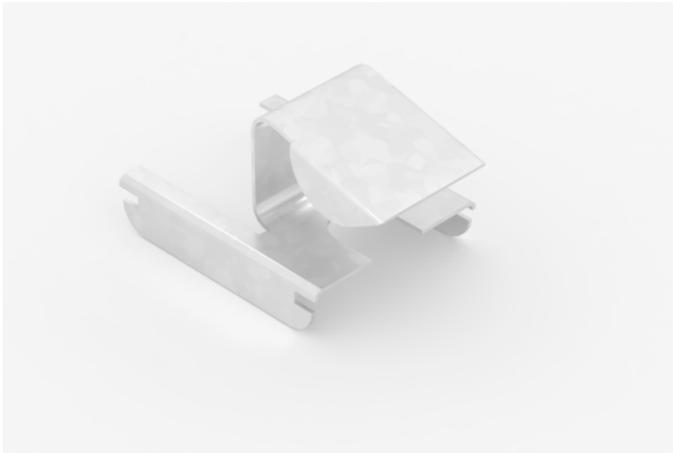
##### Installation steps



#### Application examples



**Column Clip, galvanized**



**Column Clip for CD 60/27 for cladding of steel columns and steel beams**

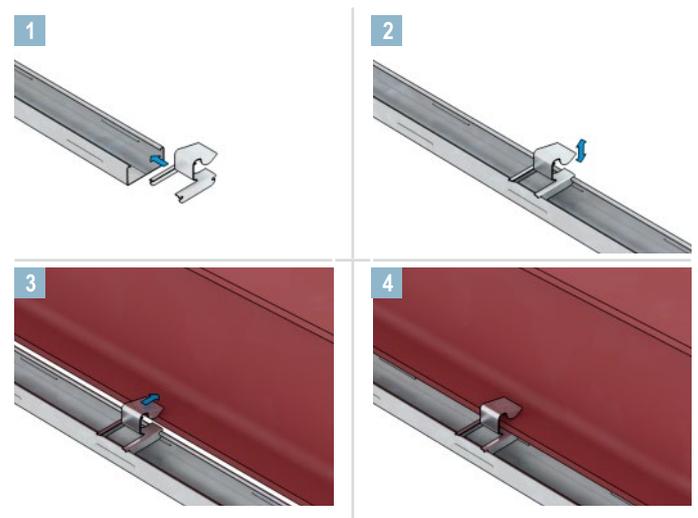
The Column Clip made of sheet metal is the optimum attachment option for steel column and steel beam cladding with CD 60/27 profiles in case of flange thickness's from 0 mm to 16 mm.

**Properties and added value**

- Easy installation
- Direct fastening on steel columns and steel beams without drilling

**Construction**

**Installation steps**



**Application examples**



**Technical data**

Table 27: Column Clip technical data

Technical data	Unit	Value	Standard
Reaction to fire	–	A1	EN 13501-1
Corrosion protection class	–	B	EN 13964
Load bearing capacity class	kN	0.15	EN 13964
CD Channel overhang	mm	35	–
For flange thickness's	mm	10 – 16	–
Metal gauge	mm	1.0	–

### Ankerwinkel Clip, galvanized



#### Ankerwinkel Clip for CD 60/27 for creating profile intersection connections

The Ankerwinkel Clip made of galvanized steel connects two CD 60/27 profiles to one another. You require two Ankerwinkel Clips for each intersection connection. It is an alternative to the Intersection Connector. Furthermore, the Ankerwinkel Clip is particularly suitable for one-sided fixing in the perimeter areas of the ceiling. Here only one Ankerwinkel Clip is required per connection point.

#### Properties and added value

- Easy and safe connection of the carrying and furring channels of a ceiling grid
- Can be bent with just one finger
- Can be used in the profile perimeter area
- Easy installation
- Low installation height

#### Tests and certificates

In compliance with EN 13964, the product is subject to initial type testing and continuous factory production control and bears the CE marking. The product is compliant with all demands of the DIN 18168-1.

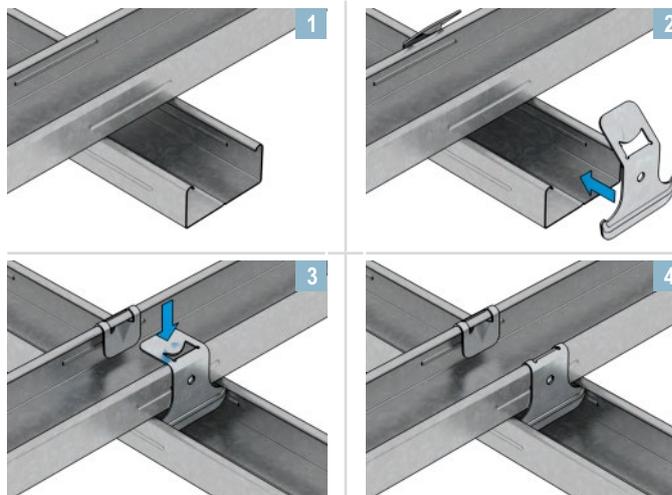
#### Technical data

Table 28: Ankerwinkel Clip technical data

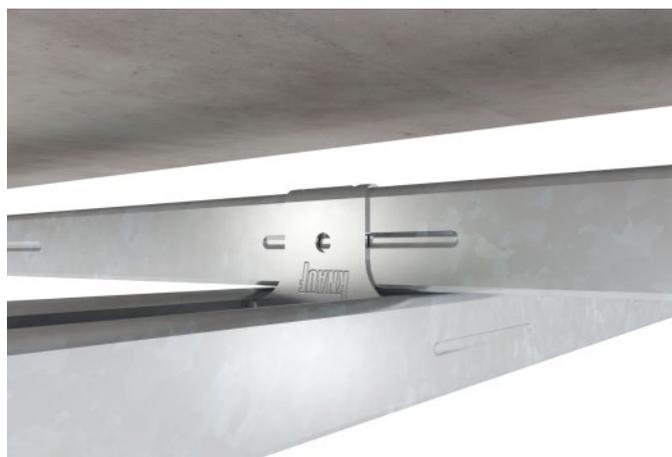
Technical data	Unit	Value	Standard
Reaction to fire	–	A1	EN 13501-1
Corrosion protection class	–	B	EN 13964
Load bearing capacity class (used as a pair)	kN	0.4	EN 13964
Metal gauge	mm	1.0	–

#### Construction

##### Installation steps



#### Application examples



### Daisy Chain Clip, galvanized



#### Daisy Chain Clip for CD 60/27 for creating profile intersection connections in flexible angles

The Daisy Chain Clip made of galvanized sheet metal connects CD Channels 60/27 in flexible angles to one another. They require two Daisy Chain Clips for each intersection connection. One particular benefit of the Daisy Chain Clip is that the Intersection Connectors don't need to be right-angled as its swivel joint can be set to the required angle. Furthermore, the Ankerwinkel Clip is particularly suitable for one-sided fixing in the perimeter areas of the ceiling. Here only one Ankerwinkel Clip is required per connection point.

#### Properties and added value

- Easy and safe connection of the carrying and furring channels of a ceiling grid
- With swivel joint
- Flexible angular settings possible
- Can be bent with just one finger
- Can be used in the profile perimeter area
- Easy installation
- Fast installation

#### Tests and certificates

In compliance with EN 13964, the product is subject to initial type testing and continuous factory production control and bears the CE marking. The product is compliant with all demands of the DIN 18168-1.

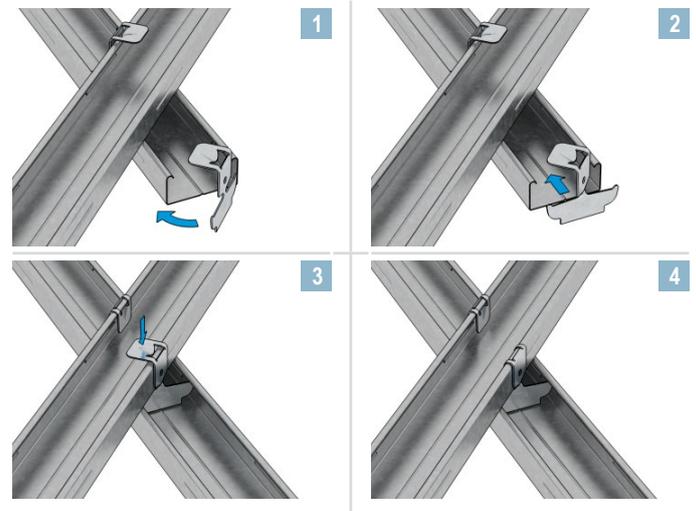
#### Technical data

Table 29: Daisy Chain Clip technical data

Technical data	Unit	Value	Standard
Reaction to fire	–	A1	EN 13501-1
Corrosion protection class	–	B	EN 13964
Loadbearing capacity (used as a pair)	kN	0.25	EN 13964
Metal gauge	mm	1.0	–

#### Construction

##### Installation steps



#### Application examples



### Connection Angle, galvanized or C3-C5M



#### Connection Angle for fastening of UA profiles without and with corrosion protection C3-C5M in wall and free-spanning ceiling systems

The connection angle made of galvanized or coated sheet metal facilitates the fastening of UA profiles in wall systems, e.g. in window and door openings or for the installation of free-spanning profiles or ceilings.

#### Properties and added value

- High stability
- Flexible thanks to slanted screw slots
- Easy installation

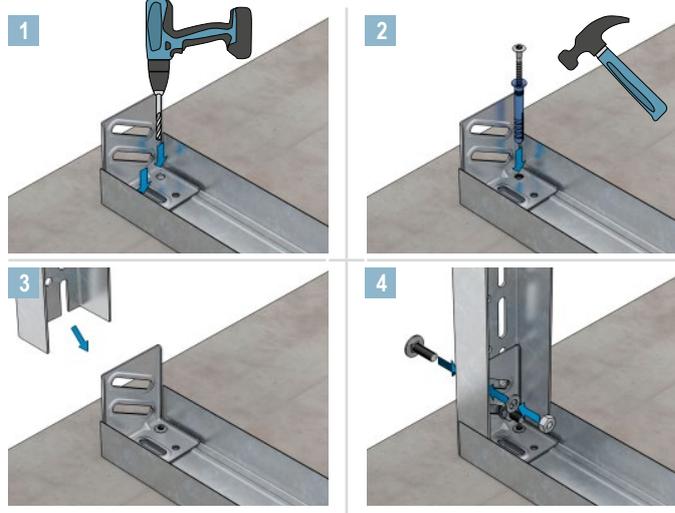
#### Related products

- UW profiles UW50, UW75, UW100
- UA profiles UA 50, UA 70, UA 75, UA 100

<b>Note</b>	The 4 connection angles are supplied including accessories.
	8 Nailable Plugs 6/60 mm (UA 50)
	8 Nailable Plugs 8/60 mm (UA 75 and UA 100)
	8 carriage bolts M8/25 mm, nuts and washers (with corrosion protection recoating)

#### Construction

##### Installation steps



#### Application examples



#### Technical data

Table 30: Connection Angle technical data

Technical data	Unit	Value	Standard
Reaction to fire	–	A1	EN 13501-1
Reaction to fire C3-C5M	–	A2-s1, d0	EN 13501-1
Corrosion protection class/corrosivity category			
Connection Angle	–	B	EN 13964
Connection Angle C3-C5M	–	C3-C5M	EN ISO 12944
Metal gauge	mm	1.5	–
Limb length	mm	50 x 80	–
Loadbearing capacity for UA 50	kN	1	–
Loadbearing capacity for UA 70 / UA 75 / UA 100	kN	2	–

Door Frame Bracket, galvanized



**Door Frame Bracket for attachment of CW-UA profiles in wall systems in the door frame area**

The Door Frame Bracket made of sheet metal facilitates stable attachment of door jambs (CW or UA profiles) with the metal stud framework in the ceiling and floor areas. The Door Frame Bracket top section has a practical opening that serves to route cables through it. Furthermore, it can also be used as a Combo Sanistand for WC and bidet with a front wall installation in conjunction with UA profiles.

**Properties and added value**

- Easy installation
- Can be used both with UA profiles as well as CW profiles

**Related products**

- CW profiles CW 50, CW 75, CW 100
- UW profiles UW50, UW75, UW100
- UA profiles UA 50, UA 70, UA 75, UA 100  
UA 125 and UA 150 each with 2 x M8 carriage bolts possible

**Technical data**

Table 31: Door Frame Bracket technical data

Technical data	Unit	Value	Standard
Reaction to fire	–	A1	EN 13501-1
Corrosion protection class	–	B	Following EN 13964
Metal gauge	mm	2	–
Ceiling deflection	mm	20	–
Upper section limb length	mm	130 x 125	–
Lower section limb length	mm	45 x 125	–
Loadbearing capacity for UA 50, UA 70	kN	1	–
Loadbearing capacity for UA 75, UA 100, UA 125, UA 150	kN	2	–

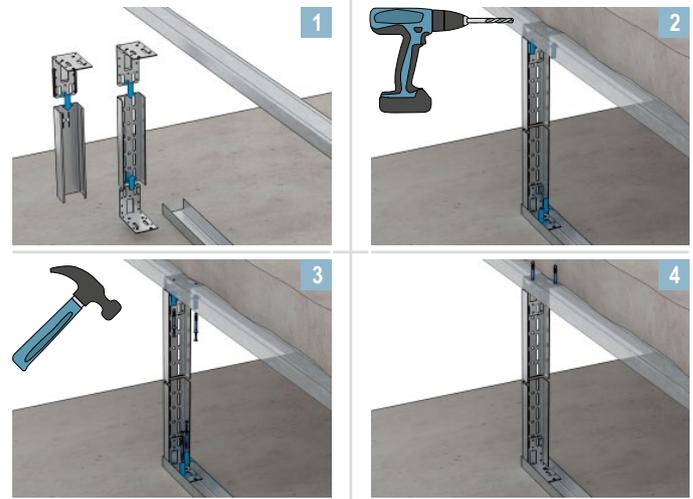
Table 32: Maximum door leaf weights

Door leaf width	Variant CW stud	UA profile variant				
		UA 50	UA 70 / UA 75	UA 100	UA 125	UA 150
≤ 885 mm	≤ 25 kg	≤ 50 kg	≤ 75 kg	≤ 100 kg	≤ 125 kg	≤ 150 kg
≤ 1010 mm	–	≤ 50 kg	≤ 75 kg	≤ 100 kg	≤ 125 kg	≤ 150 kg
≤ 1260 mm	–	≤ 40 kg	≤ 60 kg	≤ 80 kg	≤ 100 kg	≤ 120 kg
≤ 1510 mm	–	≤ 35 kg	≤ 50 kg	≤ 65 kg	≤ 80 kg	≤ 95 kg

**Construction**

**Installation steps**

The applied plastic strips are used together with CW profiles. The plastic strips are removed for use with UA profiles.



**Application examples**



### Sliding wall bracket, galvanized



#### Sliding wall bracket for fastening of CW profiles in firewall systems for construction of deflection heads

The sliding wall bracket is used for deflection heads with up to 40 mm ceiling deflection of fire walls. The sliding wall bracket has been developed exclusively for use with CW profiles. Combination with UA profiles is not possible.

#### Properties and added value

- High level of security guaranteed by the optimally matched Knauf system components
- Easy installation

#### Related products

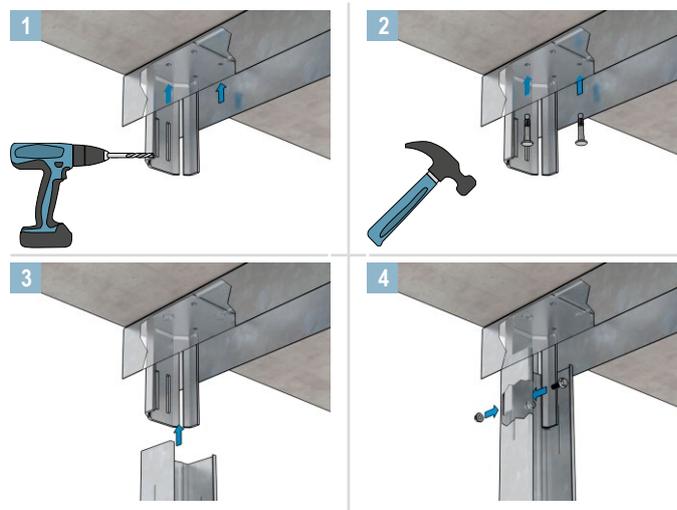
- UW profiles UW 50, UW 75, UW 100
- CW profiles CW 50, CW 75, CW 100

#### Note

The sliding wall bracket is supplied including the Ceiling Steel Dowels, screws and nuts.

#### Construction

##### Installation steps



##### Application examples



#### Technical data

Table 33: Sliding wall bracket technical data

Technical data	Unit	Value	Standard
Reaction to fire	–	A1	EN 13501-1
Corrosion protection class	–	B	Following EN 13964
Metal gauge	mm	3	–
Ceiling deflection	mm	40	–
Bracket height	mm	123	–

**UA Angle Connector, galvanized**



**UA Angle Connector for connection of UA profiles**

The UA Angle Connector made of galvanized sheet metal is used for 90° angles, e.g. of freely-suspended ceilings or in the Cubo room-in-room system.

**Properties and added value**

- High stability
- Including installation accessories

**Related products**

- UA profile 100/40/2
- UA profile 125/40/2
- UA profile 150/40/2

**Note**

The UA Angle Connector is supplied together with suitable fasteners.

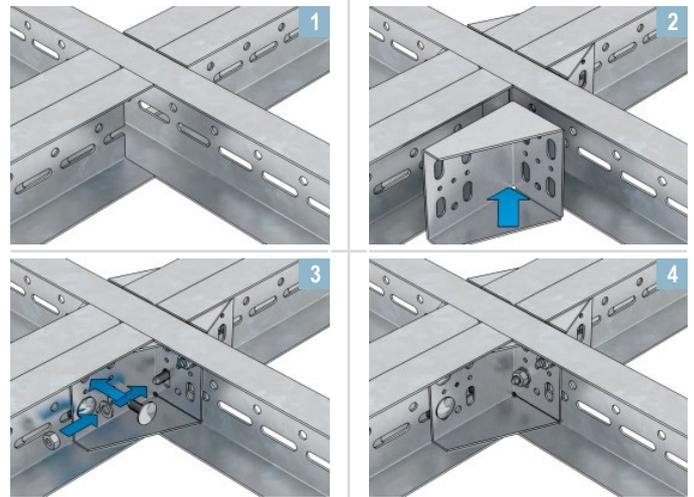
**Technical data**

Table 34: UA Angle Connector technical data

Technical data	Unit	Value	Standard
Reaction to fire	–	A1	EN 13501-1
Corrosion protection class	–	B	Following EN 13964
Metal gauge	mm	2	–
Limb length	mm	100 x 60	–
Width	mm	100	–
	mm	125	–
	mm	150	–
Loadbearing capacity	kN	3	–

**Construction**

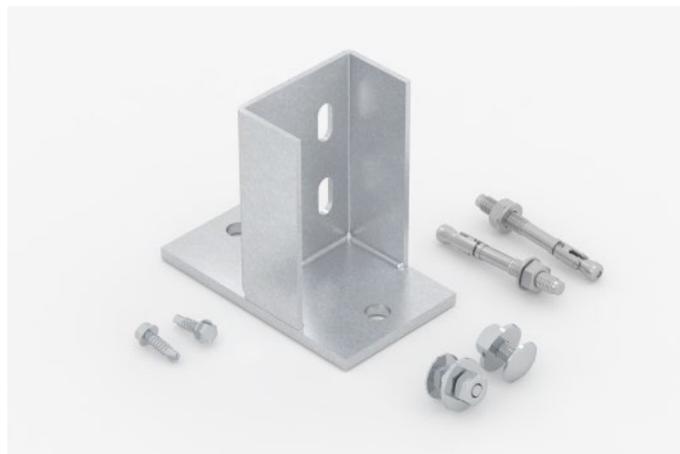
**Installation steps**



**Application examples**



### Fixing kit aprons / balustrades, welded, galvanized



#### Fixing kit aprons / balustrades, welded, galvanized for non-visible fastening of aprons and balustrades for UA 75

The fixing kit contains everything to optimally anchor aprons or balustrades to the building structure from a structural point of view. The support base situated within the construction with the matched accessories not only leads to a high level of stiffness, but also facilitates non-visible fastening. This means that not only can visually appealing solutions be realised without visible fasteners, but it also eliminates the need for annoying diagonal bracing, which is difficult to fasten, especially with a high installation density.

#### Properties and added value

- Easy installation
- Perfectly coordinated system
- Guarantees high level of system rigidity
- Makes diagonal bracing unnecessary
- Provides visually appealing solutions

#### Related products

- UA 75
- UW 75

#### Tests and certificates

The fixing kit is a system tested component. The following National Technical Test Certificates are available for the applications for aprons and balustrades:

- abP P-1101/716/18-MPA BS
- abP P-1102/046/19-MPA BS

#### Technical data

Table 35: Fixing kit aprons / balustrades, welded technical data

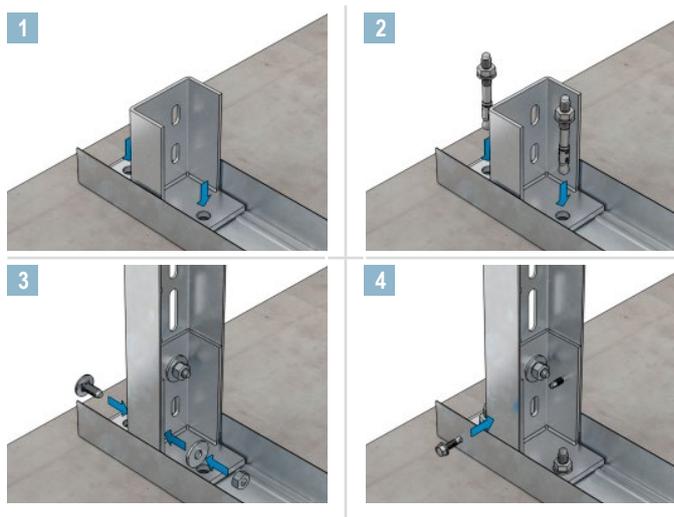
Technical data	Unit	Value	Standard
Reaction to fire	–	A1	EN 13501-1
Corrosion protection class	–	B	Following EN 13964
Metal gauge (base metal plate / U bend)	mm	6/3	–
Dimensions (length/width/height)	mm	120/70/106	–
Horizontal load for UA 75	kN/m <sup>2</sup>	–	See National Technical Test Certificate
Vertical load for ceiling application per bracket	kN	3.0	–

**Note**

The fastening kit consists of:  
 1x Support base  
 2x Bolt anchors M10  
 2x Screws M8 x 16  
 2x Washers  
 2x Hexagonal nuts  
 2x Bolt screws

#### Construction

##### Installation steps

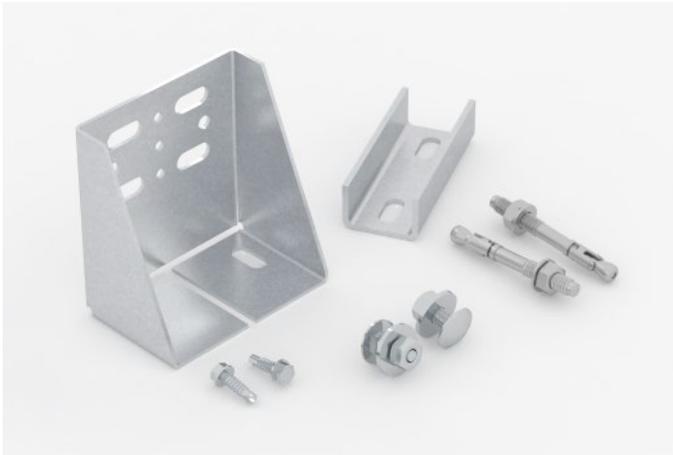


#### Application examples



Technical Information [Knauf Ceiling Aprons SL03.de](https://www.knauf.com/ceiling-aprons)  
 Technical Information [Knauf Balustrades SL02.de](https://www.knauf.com/balustrades)  
 Installation Instructions [Ceiling Aprons / Balustrades SL08-A01.de](https://www.knauf.com/ceiling-aprons-balustrades)

### Fixing kit aprons / balustrades, galvanized



#### Fixing kit aprons / balustrades for non-visible fastening of aprons and balustrades for UA 100

The fixing kit contains everything to optimally anchor aprons or balustrades to the building structure from a structural point of view. The fixing bracket situated within the construction with the matched U-piece not only leads to a high level of stiffness, but also facilitates non-visible fastening. This means that not only can visually appealing solutions be realised without visible fasteners, but it also eliminates the need for annoying diagonal bracing, which is difficult to fasten, especially with a high installation density.

#### Properties and added value

- Easy installation
- Perfectly coordinated system
- Guarantees high level of system rigidity
- Makes diagonal bracing unnecessary
- Provides visually appealing solutions

#### Related products

- UA 100
- UW 100

#### Tests and certificates

The fixing kit is a system tested component. The following National Technical Test Certificates are available for the applications for aprons and balustrades:

- abP P-1101/716/18-MPA BS
- abP P-1102/046/19-MPA BS

#### Technical data

Table 36: Fixing kit aprons / balustrades, welded technical data

Technical data	Unit	Value	Standard
Reaction to fire	–	A1	EN 13501-1
Corrosion protection class	–	B	Following EN 13964
Metal gauge (bracket / U-piece)	mm	2/3	–
Dimensions (length/width/height)	mm	60/94.8/100	–
Loadbearing capacity for UA 100	kN/m <sup>2</sup>	–	See National Technical Test Certificate
Vertical load for ceiling application per bracket	kN	3.0	–

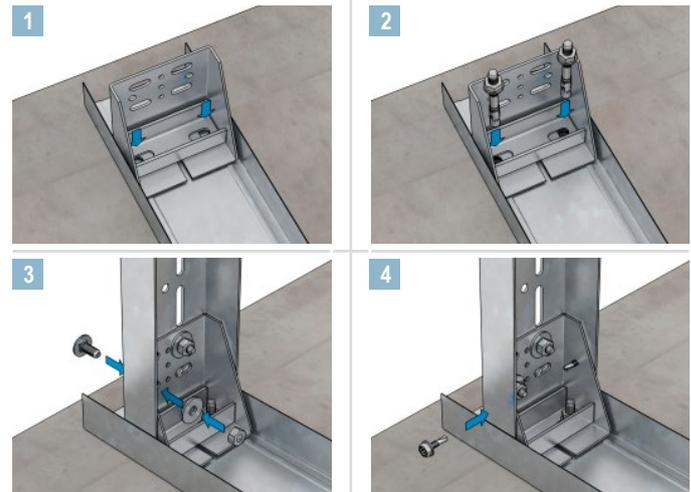
**Note**

The fastening kit consists of:

- 2x Angle brackets
- 2x U-pieces
- 4x Bolt anchors
- 4x Screws M8 x 25
- 4x Washers
- 4x Hexagonal nuts
- 4x Bolt screws

#### Construction

##### Installation steps



#### Application examples



- Technical Information [Knauf Ceiling Aprons SL03.de](https://www.knauf-ceiling.com/SL03.de)
- Technical Information [Knauf Balustrades SL02.de](https://www.knauf-ceiling.com/SL02.de)
- Installation Instructions [Ceiling Aprons / Balustrades SL08-A01.de](https://www.knauf-ceiling.com/SL08-A01.de)

### KAW Steel Bracket 70 x 135/100, C3-C5M



#### KAW Steel Bracket 70 x 135/100 for anchoring of the KAW profile

The Knauf exterior wall system enables the design and implementation of façades in old and new buildings. Compared to conventional construction methods, the building envelope can be constructed much faster and with less weight.

For the grid of the Knauf Exterior Wall System, there are perfectly matched system components with the KAW Steel Bracket, the KAW Screw and the KAW Façade Profile, which guarantee optimum construction of the system.

#### Properties and added value

- Highest level of flexibility
- Perfectly coordinated system
- Protective treatment C3-long
- Structural preliminary design of the façade with system components

#### Related products

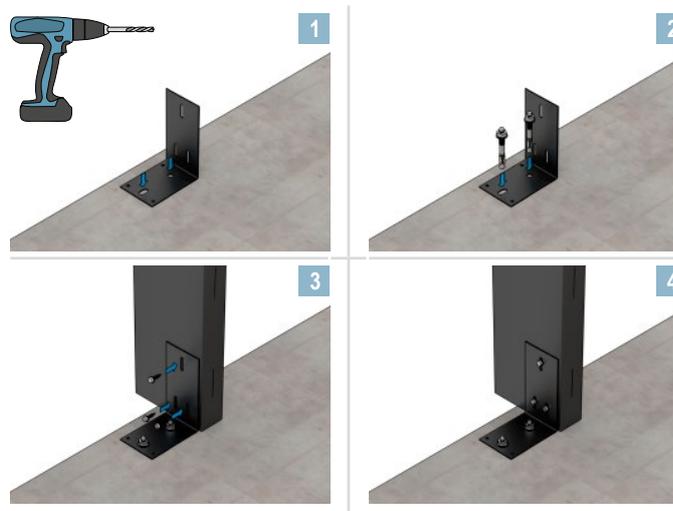
- KAW Screw
- KAW Façade Profile 150

#### Technical data

Table 37: KAW Steel Bracket 70 x 135/100 technical data

Technical data	Unit	Value	Standard
Reaction to fire	–	A1	EN 13501-1
Corrosion protection class	–	C3 long	EN ISO 12944
Loadbearing capacity	kN	1	–
Metal gauge	mm	1.5	–
Limb length/width	mm	100 x 135 x 70	–

#### Construction Installation steps



#### Application examples

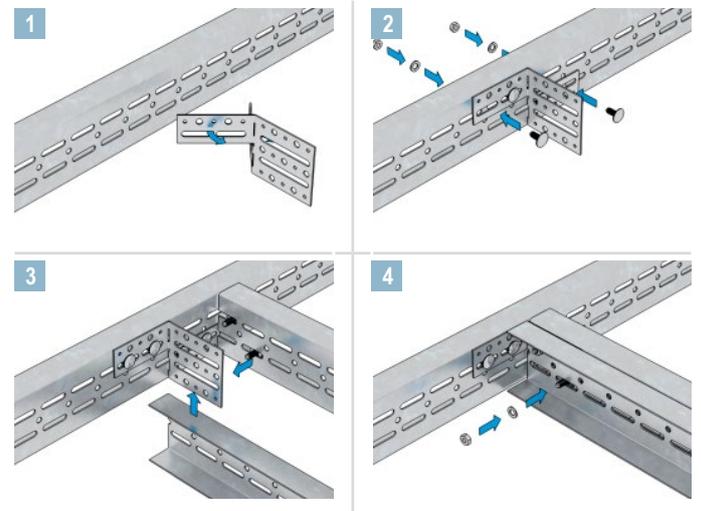


**Cubo Connection Bracket, galvanized**



**Construction**

**Installation steps**



**Cubo Connection Bracket for connection to wall, T connections and longitudinal connection of UA profiles**

The Cubo Connection Bracket for UA 100, 125 and 150 is a special galvanized bracket for the connection of UA ceiling profiles or UA perimeter profiles to flanking components (e.g. walls, UA profiles) and for longitudinal connection of UA perimeter profiles.

**Properties and added value**

- Galvanized sheet metal
- Centre specified bending point for easy bending of the tabs
- Including 24 x M8 truss head screws, washers and nuts

**Related products**

- UA 100, UA 125, UA 150

**Application examples**



**Technical data**

Table 38: Cubo Connection Bracket technical data

Technical data	Unit	Value	Standard
Reaction to fire	–	A1	EN 13501-1
Corrosion protection class	–	B	Following EN 13964
Loadbearing capacity	kN	2	–
Metal gauge	mm	2	–
Length	mm	200 (bent 100)	–

### CD Longitudinal Connector, galvanized or C3-C5M



#### CD Longitudinal Connector for CD 60/27 for longitudinal connection of CD profiles

The CD Longitudinal Connector made of sheet metal or coated sheet metal with special tab for fine adjustment is a connector that fits the CD 60/27 ceiling profile perfectly. It is particularly easy to insert, better adapted to the profile and more convenient to readjust, which makes it much easier to apply than other longitudinal connectors. Thanks to its extra-flat base, it also makes it possible to create a profile intersection connection directly above a longitudinal connection. Other longitudinal connectors often block the intersection connector from below and may require time-consuming readjustment of the entire support profile.

#### Properties and added value

- Special tab for simple adjustment of the longitudinal connector in the channel
- Rounded off edges for improved fitting in the channel
- Flexible tabs for optimum adjustment to the profile
- Extra flat basis to avoid blocking the Intersection Connector
- Can be installed without tools

#### Tests and certificates

In compliance with EN 13964, the product is subject to initial type testing and continuous factory production control and bears the CE marking. The product is compliant with all demands of the DIN 18168-1.

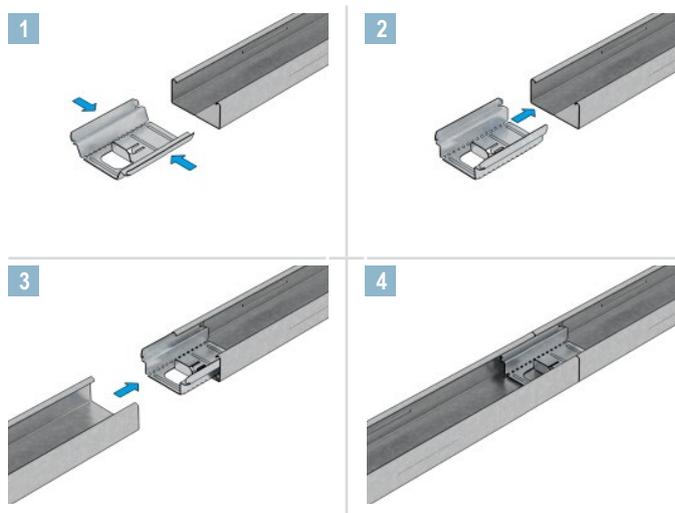
#### Technical data

Table 39: CD Longitudinal Connector technical data

Technical data	Unit	Value	Standard
Reaction to fire	–	A1	EN 13501-1
Reaction to fire, corrosion protection	–	A2-s1, d0	EN 13501-1
Corrosion protection class			
CD Longitudinal Connector	–	B	EN 13964
CD Longitudinal Connector	–	C3-C5M	EN ISO 12944
Metal gauge	mm	0.9	–
Length	mm	80	–

#### Construction

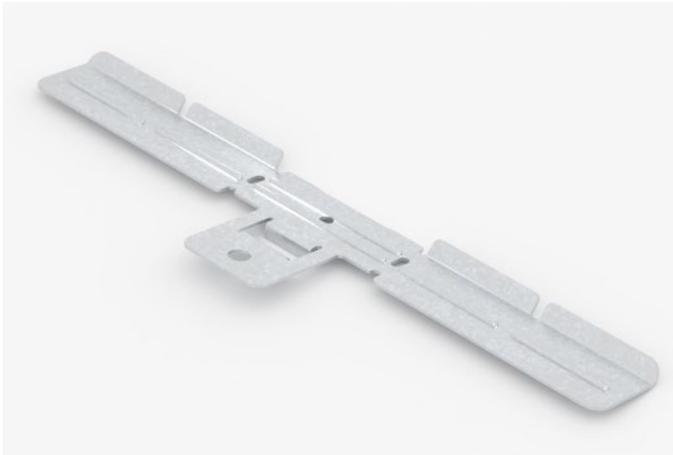
##### Installation steps



#### Application examples

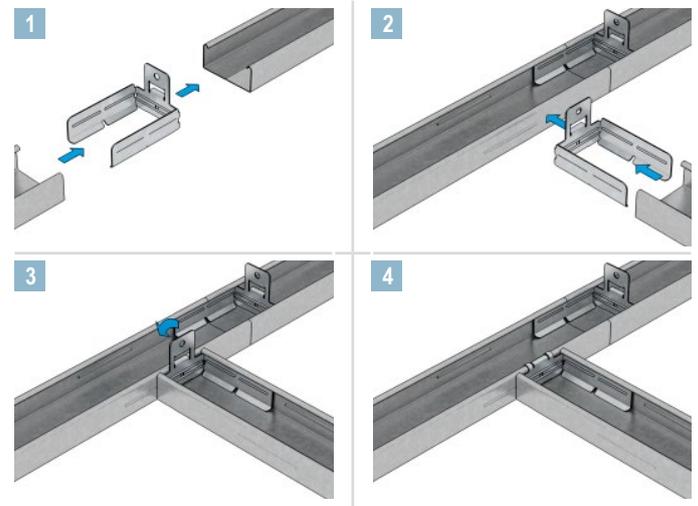


Universal Connector, galvanized



Construction

Installation steps



Universal Connector for CD 60/27 for creating flush profile connections in flexible angles

The Universal Connector is used to create flush connections of CD 60/27 profiles, e.g. when installing access panels or trimmers. It can also create flexible angles that diverge from 90°. In addition, it can also be used as a longitudinal connector or as a suspender, which sometimes makes it a useful tool in emergencies.

Properties and added value

- Highly flexible
- Multifunctional application
- Easy installation

Tests and certificates

In compliance with EN 13964, the product is subject to initial type testing and continuous factory production control and bears the CE marking. The product is compliant with all demands of the DIN 18168-1.

Application examples



Technical data

Table 40: Universal Connector technical data

Technical data	Unit	Value	Standard
Reaction to fire	–	A1	EN 13501-1
Corrosion protection class	–	B	EN 13964
Load bearing capacity class as a suspender	kN	0.25	DIN 18168-1
Metal gauge	mm	0.9	EN 13964
Length (orthogonally curved)	mm	80	–

### Angle Connector 90°, galvanized



#### Angle Connector 90° for CD 60/27 for connection of profiles at right angles

The Angle Connector 90° for CD 60/27 made of galvanized sheet metal ensures that the installation of 90° brackets in the substrate is undertaken quickly and easily, e.g. with designed ceilings, box forms or ceiling panelling. The Angle Connector is supplied as a flat metal component. The ends are bent parallel to each other at right angles at the perforations on-site. The installation is undertaken as shown.

#### Properties and added value

- Easy installation
- Saves elaborate screw fastening

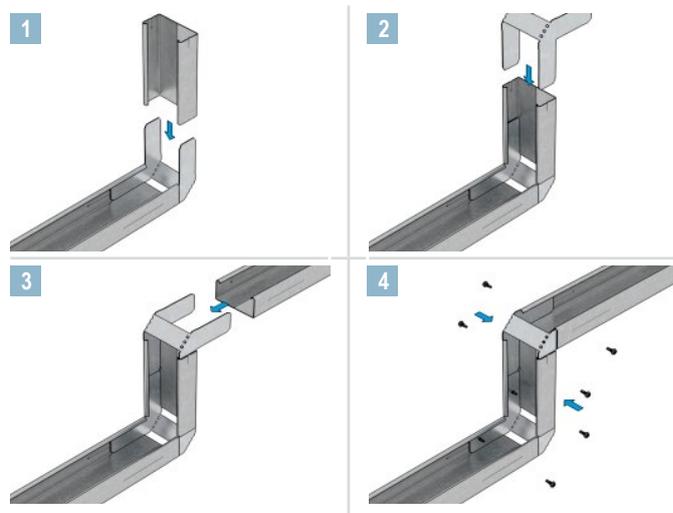
#### Technical data

Table 41: Angle Connector 90° technical data

Technical data	Unit	Value	Standard
Reaction to fire	–	A1	EN 13501-1
Corrosion protection class	–	B	EN 13964
Metal gauge	mm	0.75	–

#### Construction

##### Installation steps



#### Application examples



Multi-Connector, galvanized



**Multi-Connector for longitudinal connection of CD profiles**

The Multi-Connector made of sheet metal is a versatile profile connector that (in conjunction with the corresponding adapter) can make angular connections of CD 60/27 profiles at any angle. The Angle Connector is a metal element for connecting CD profiles. Thanks to its lightly curved geometry it automatically clamps to the interior flange of the CD profile and enables the connection of the ends of two CD profiles. The Multi-Connector can be used with the respective adapter for Multi-Connectors for ceiling transitions at an angle of 30° - 280°. Thanks to its extra-flat base, it also makes it possible to create a profile intersection connection directly above a longitudinal connection.

**Properties and added value**

- Fast and simple profile interconnection
- Universal application (diverse longitudinal and angle connectors)
- Flexible side jaws compensate for profile tolerances
- Does not block the Intersection Connector
- Special solutions for adaptor possible on request

**Related products**

- Adapter 30° to 280°

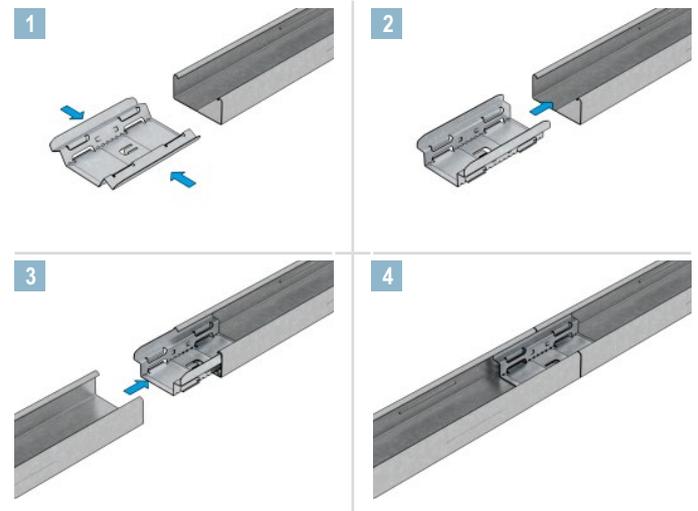
**Technical data**

Table 42: Multi-Connector technical data

Technical data	Unit	Value	Standard
Reaction to fire	–	A1	EN 13501-1
Corrosion protection class	–	B	Following EN 13964
Metal gauge	mm	0.5	–
Length	mm	100	–

**Construction**

**Installation steps**



**Application examples**



### Adapter for Multi-Connector, galvanized



#### Adapter for Multi-Connector 30° to 280° for the creation of angular grids with CD profiles

Diverse adapters made of sheet metal for a range of applications in conjunction with the Knauf Multi-Connector. The main area of application is the connection of CD 60/27 profiles in flexible angles.

#### Properties and added value

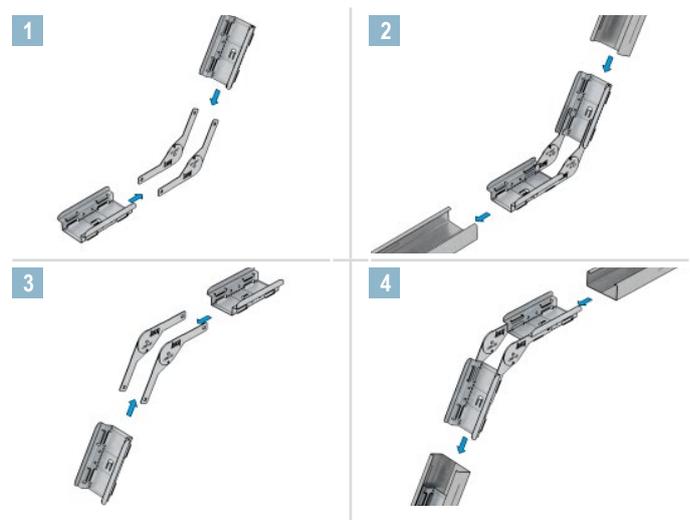
- Easy installation
- Universal application (diverse longitudinal and angle connectors)
- Special solutions for adaptor possible on request

#### Related products

- CD Channel CD 60/27

#### Construction

##### Installation steps



#### Application examples



#### Technical data

Table 43: Adapter for Multi-Connector technical data

Technical data	Unit	Value	Standard
Reaction to fire	–	A1	EN 13501-1
Corrosion protection class	–	B	Following EN 13964
Metal gauge	mm	0.9	–
Length	mm	95	–
Limb lengths	mm	45	–

Intersection Connector for CD 60/27, galvanized or C3-C5M



Intersection Connector for CD 60/27, galvanized or C3-C5M for creating profile intersection connections

The Intersection Connector for CD 60/27 made of galvanized or coated sheet metal ensure a stable clamp connection to the intersection point between two CD Channels (carrying and furring channels) situated over one another. After the alignment of the profiles the lateral clamping tabs are pressed together until the carrying channel is clamped onto the furring channel. The tabs engage in the CD Channel. The precision fit of the Knauf CD Channels reliably prevent possible rattling of the grid. Furthermore, the Intersection Connector can be placed over a CD longitudinal connector or Multi-Connector without the connectors blocking one another. They require an Intersection Connector for each intersection connection.

Properties and added value

- Easy and safe connection of the carrying and furring channel of a ceiling grid
- Simple profile adjustment using adjustment tabs
- Precision fit on the Knauf ceiling profiles
- Can be fastened directly over the CD Longitudinal Connector and the Multi-Connector

Related products

- CD Channel CD 60/27, galvanized or C3-C5M

Tests and certificates

In compliance with EN 13964, the product is subject to initial type testing and continuous factory production control and bears the CE marking. The product is compliant with all demands of the DIN 18168-1.

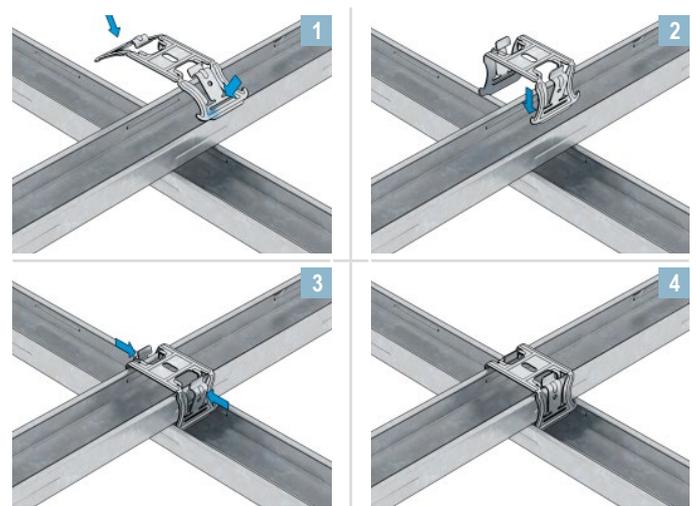
Technical data

Table 44: Intersection Connector CD 60/27 technical data

Technical data	Unit	Intersection Connector CD 60/27 galvanized	Intersection Connector CD 60/27 C3-C5M	Standard
Reaction to fire	–	A1	A2-s1, d0	EN 13501-1
Corrosion protection class	–	B	C / D	EN 13964
Metal gauge	mm	0.9	0.9	–
Length	mm	145	145	–
Loadbearing capacity	kN	0.4	0.4	–
Functional test	–	fulfilled	fulfilled	EN 13964

Construction

Installation steps



Application examples



### Intersection Connector for UA Profile with CD Channel, galvanized or C3-C5M



#### Intersection Connector for UA Profile with CD Channel for connection of UA 50/40 carrying channel with CD 60/27 furring channel

The Intersection Connector for UA Profile with CD Channel made of galvanized or coated sheet metal ensure a stable clamp connection to the intersection point of a UA Profile with a CD Channel (carrying and furring channels). The profiles can be easily aligned and then fixed in place using both adjustment tabs. The precision fit of the Knauf CD Channel and UA profiles reliably prevents possible rattling of the grid. Furthermore, the Intersection Connector can be placed over a CD longitudinal connector or Multi-Connector without the connectors blocking one another. They require an Intersection Connector for each intersection connection.

#### Properties and added value

- Easy and safe connection of the carrying and furring channels of a ceiling grid
- Simple profile adjustment using adjustment tabs
- Precision fit on the Knauf ceiling profiles
- Can be fastened directly over the CD Longitudinal Connector and the Multi-Connector

#### Related products

- CD Channel CD 60/27, galvanized or C3-C5M
- UA profile 50/40, galvanized or C3-C5M

#### Technical data

Table 45: Intersection Connector for UA Profile with CD Channel technical data

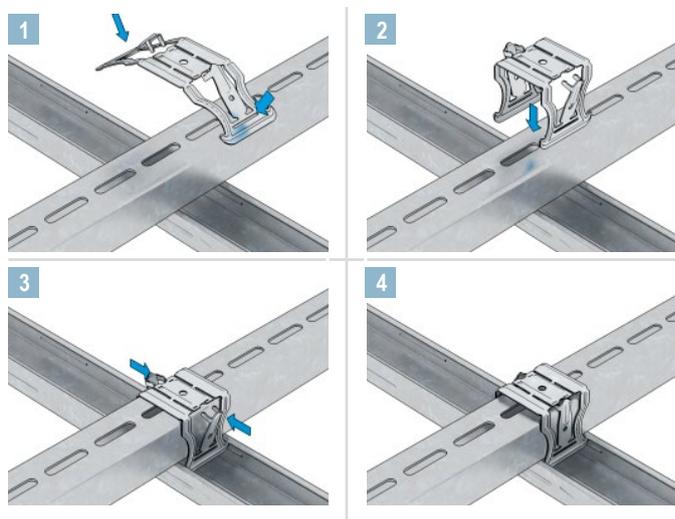
Technical data	Unit	Intersection Connector for UA Profile with CD Channel galvanized	Intersection Connector for UA Profile with CD Channel C3-C5M	Standard
Reaction to fire	–	A1	A2-s1, d0	EN 13501-1
Corrosion protection class	–	B	C / D	EN 13964
Metal gauge	mm	0.9	0.9	–
Length	mm	165	165	–
Loadbearing capacity	kN	0.4	0.4	–
Functional test	–	fulfilled	fulfilled	EN 13964

#### Tests and certificates

In compliance with EN 13964, the product is subject to initial type testing and continuous factory production control and bears the CE marking. The product is compliant with all demands of the DIN 18168-1.

#### Construction

##### Installation steps



#### Application examples

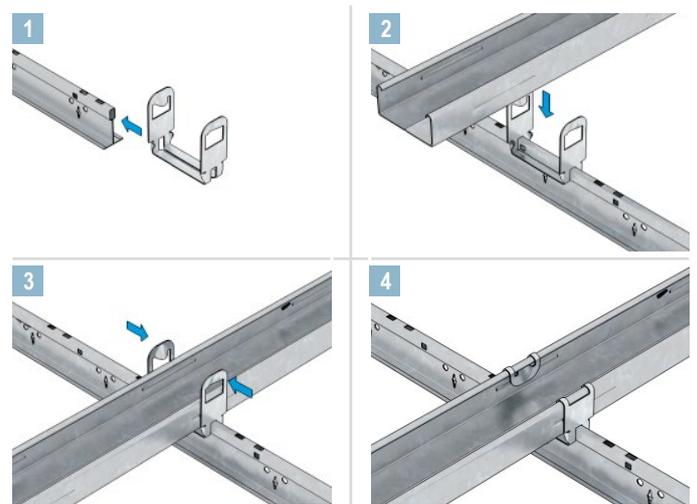


Intersection connector for T with CD Channel, galvanized



Construction

Installation steps



Intersection connector for T with CD Channel for connection of CD carrying channels with the T connection as a furring channel

The Intersection Connector for T rails with CD Channels ensures an easy and secure connection of CD Channels with Knauf AMF DONN T rails of a grid in the Visona system.

Properties and added value

- Easy and secure connection of CD Channels with DONN T-rails
- Precision fit on the Knauf ceiling profiles

Related products

- DONN T-rails

Tests and certificates

In compliance with EN 13964, the product is subject to initial type testing and continuous factory production control and bears the CE marking. The product is compliant with all demands of the DIN 18168-1.

Application examples



Technical data

Table 46: Intersection Connector for T with CD Channel technical data

Technical data	Unit	Value	Standard
Reaction to fire	–	A2-s1, d0	EN 13501-1
Corrosion protection class	–	B	EN 13964
Metal gauge	mm	0.9	–
Length	mm	180	–
Loadbearing capacity	kN	0.25	–

### Flush Connector, galvanized



#### Flush Connector for CD 60/27 for creating flush profile intersection connections

The Flush Connector made of galvanized sheet metal ensures stable intersection connections in the grid for flush 90° profile intersection connections on ceilings. The precision fit of the CD profiles reliably prevents possible rattling of the grid. You require one Flush Connector for each connection.

#### Properties and added value

- Easy installation
- Low installation height
- Precision fit on the Knauf ceiling profiles

#### Related products

- CD Channel 60/27

#### Tests and certificates

In compliance with EN 13964, the product is subject to initial type testing and continuous factory production control and bears the CE marking. The product is compliant with all demands of the DIN 18168-1.

#### Technical data

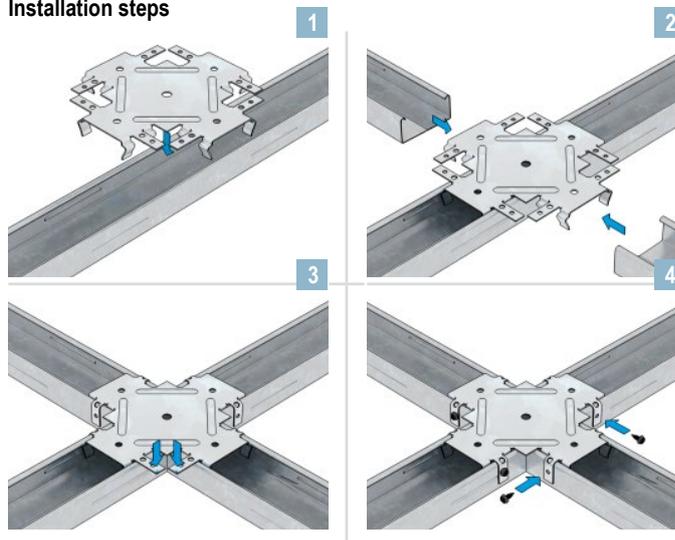
Table 47: Flush Connector technical data

Technical data	Unit	Value	Standard
Reaction to fire	–	A1	EN 13501-1
Corrosion protection class	–	B	EN 13964
Metal gauge	mm	1	–
Length	mm	145	–
Loadbearing capacity, not screw fastened	kN	0.25	–
Loadbearing capacity, screw fastened	kN	0.40	–

#### Construction

Recommendation: The spacing between Flush Connectors and basic ceilings should be about 3 cm to ensure that there is sufficient free space for installation.

#### Installation steps



#### Application examples



#### Note

Additional measures with fire resistance from above:  
Bend the tabs and screw fasten with the furring channel  
(4x Metal Screws LN 3.5 x 11)

# Knauf Infothek

In the know – wherever you are



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The Knauf Infothek tablet App makes sure that the building professionals do not have to wait long for their answers. The service tool conveniently provides all current documentation from Knauf Gips KG day and night.

The free App must be downloaded once from the Apple or Google store and installed on the tablet.

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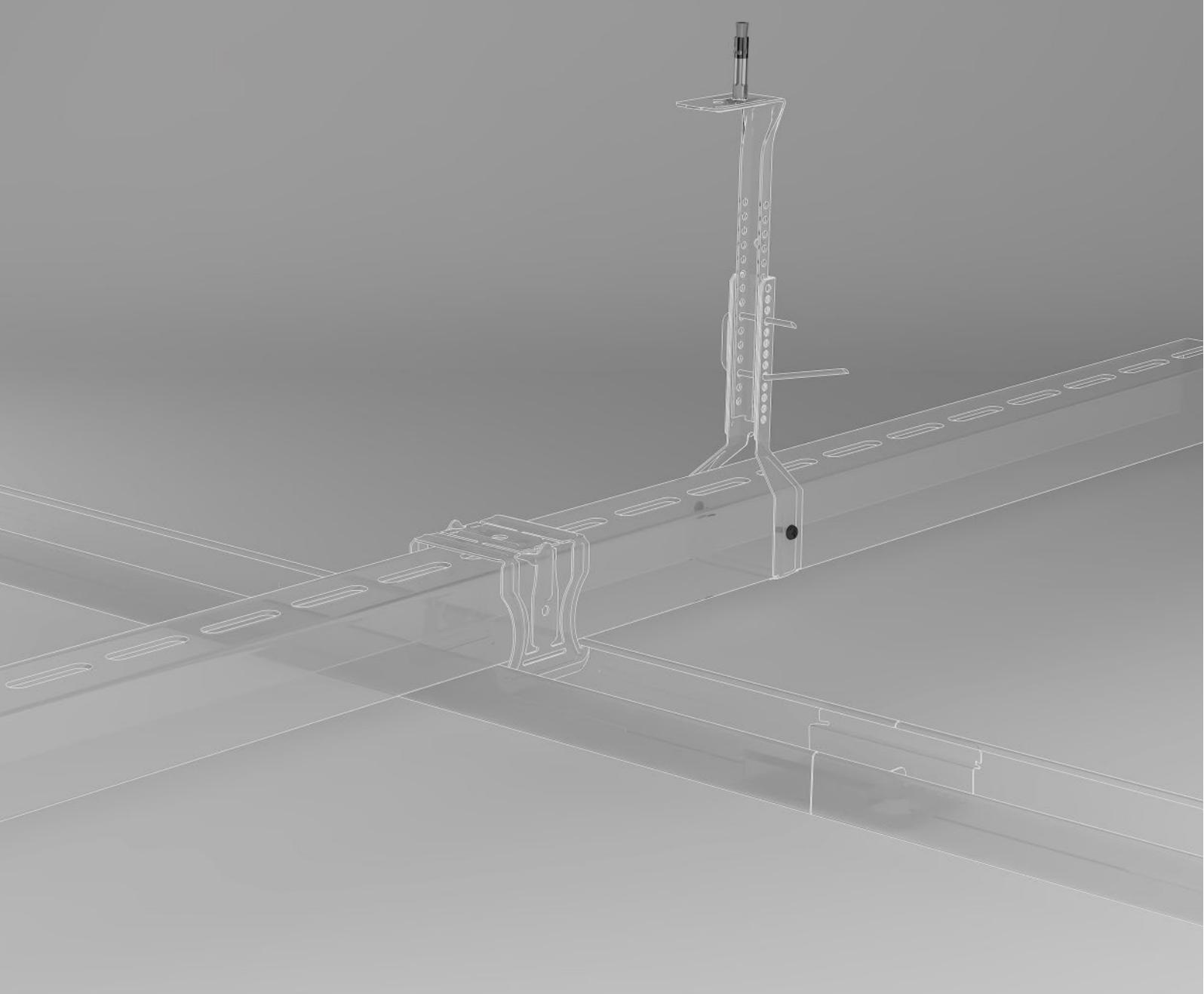
One special feature is the presentation format. A growing portion of the documents are designed with interactive features and use animation. This assists in the comprehension of complex issues.

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Saves documents you use frequently under favourites or create theme or project related collections yourself.

2 pcs  
CBORE for socket head  
4 plcs

Slot 3/16 wide  
Slip fit to 3/16 pi



## Fasteners

Drywall Screws

Wet room screws

Cleaneo Caps

Special screw

Ceiling screw white

Gypsum fibre screws

Gypsum board screw

Metal Screws

AQUAPANEL® Screws

Dowels and anchors

### Fastening – One of our strengths

Knauf fastening technology includes, for example, fastenings of grids/frames to walls or ceilings or also fastening of gypsum boards or gypsum fibre boards to grids/frames.

Screws, Cleaneo-Caps, dowels and anchors - our tested and certified products are available in different protective coating variants, depending on the application for which the product is used. A wide range of applications and designs leave nothing to be desired.



### Coatings

- Phosphate-treated for standard applications
- Protective treatment for applications in damp and wet rooms

### Applications

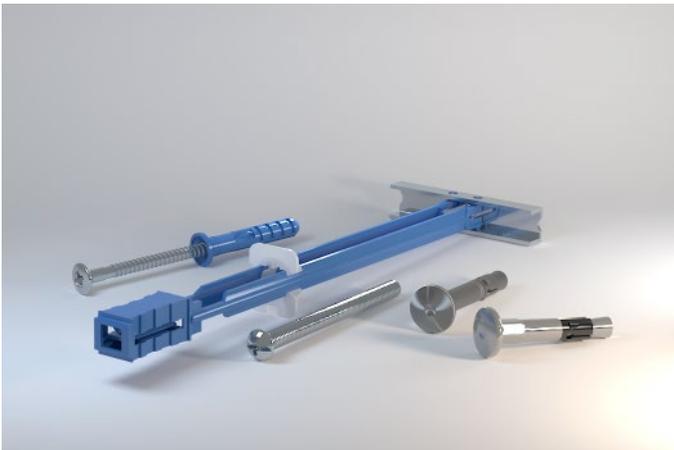
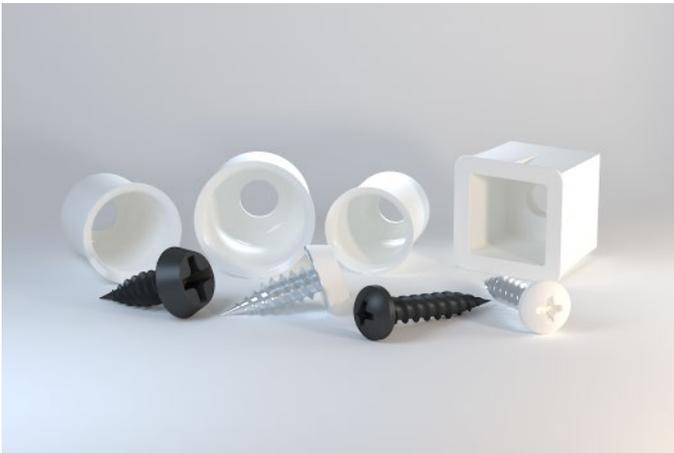
- Partition systems
  - Metal constructions
  - Timber constructions
  - Furring / lining
  - Installation shaft walls
- Ceiling systems
  - Board ceilings
  - Acoustical ceilings
- Special systems
  - Façades
  - Floors
  - Lightweight steel construction

### Versions

Our fasteners are available in different designs and detailed information can be found on the corresponding product pages.

### Tests and certificates

In compliance with EN 14566, the product is subject to initial type testing and continuous factory production control and bears the CE marking.



## Overview table of the fasteners and anchors

Table 48: Fastener and anchor overview

Product	Partition systems				Ceiling systems			Special systems	Floor systems
	Metal stud partitions	Wood frame partitions	Furring and linings	Installation Shaft Walls	Board ceilings	Acoustical ceilings	Roof		
<b>Drywall Screws</b>									
Drywall Screw TN fine-pitch thread	●	○	●	●	●	–	●	–	–
Drywall Screw TN coarse-pitch thread	–	●	–	–	●	–	●	–	–
Drywall Screw TB with cutting point	●	–	●	●	●	–	–	●	–
Diamant Screw XTN	●	●	●	●	●	–	●	–	–
Diamant Screw XTB with cutting point	●	–	●	●	●	–	–	●	–
Counter-sunk screw SN	–	–	–	–	●	●	–	–	–
Thermoboard screw TB with cutting point	–	–	–	–	●	●	–	–	–
Multi-Purpose Screw FN	●	●	●	●	●	●	●	–	–
<b>Special screws</b>									
Wet Room Screw XTN	●	–	–	–	●	–	–	–	–
Wet Room Screw XTB with cutting point	●	–	–	–	●	–	–	–	–
Wet Room Screw LN	●	–	●	–	●	–	–	–	–
<b>Cleaneo Caps</b>									
Cleaneo Caps R	–	–	–	–	–	●	–	–	–
Cleaneo Caps Q	–	–	–	–	–	●	–	○	–
<b>Special screws</b>									
Cleaneo GO! Special screw	–	–	–	–	–	●	–	–	–
Ceiling screw white	–	–	–	–	–	●	–	–	–
<b>Gypsum fibre screws</b>									
Gypsum fibre floor screw SN	–	–	–	–	–	–	–	–	●
Gypsum fibre screw SN	–	–	–	–	–	–	●	–	●
Gypsum board screw	●	●	●	●	●	–	●	–	–
<b>Fixing screws</b>									
Metal Screw LN	●	–	●	●	●	●	●	–	–
Metal Screw LB with cutting point	●	–	●	●	●	●	–	–	–
KAW Screw	–	–	–	–	–	–	–	●	–
<b>AQUAPANEL® Screws</b>									
AQUAPANEL® Maxi Screw SN	●	–	●	●	●	●	–	–	–
AQUAPANEL® Maxi Screw SB with cutting point	●	–	●	●	●	●	–	–	–
AQUAPANEL® Façade Screw SN 40	●	–	●	●	●	●	–	–	–
AQUAPANEL® Façade Screw SB 40	●	–	●	●	●	●	–	–	–
<b>Dowels and nails</b>									
Hartmut Cavity Dowel	●	●	●	●	●	–	–	–	–
Nailable Plug	●	●	●	●	○	○	–	–	–
Ceiling Steel Dowel	●	–	●	●	●	●	–	–	–
Ceiling Steel Dowel corrosion protection A4	–	–	–	–	●	○	–	●	–

● Application

○ Possible application

– Not used

Table 49: Element and gypsum board connections

Product image	Product	Field of application	Element / board thickness
	Gypsum fibre screw floor SN 4.2 x 17	Connection of Brio units and Vidiwall	1x Brio 18 (notch joint connection)
	Gypsum fibre screw floor SN 4.2 x 22	Connection of Brio units and Vidiwall	1x Brio 23 (notch joint connection)
	Gypsum fibre screw SN 3.9 x 30	Connection of Brio units and Vidiwall	2x Brio 18 (surface connection)
	Gypsum fibre screw SN 3.9 x 45	Connection of Brio units and Vidiwall	2x Brio 23 (surface connection)
	Gypsum board screw 5.5 x 38	Fastening of gypsum board to gypsum board	≤ 37.5 mm

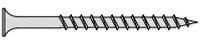
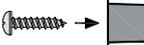
Table 50: Metal screws and bolts

Product image	Product	Field of application	Metal gauge
	Metal Screw LN 3.5 x 11	Screw fastening of profiles, suspender/connector with profiles	≤ 0.7 mm
	Metal Screws LB with cutting point 3.5 x 9.5	Screw fastening of profiles, suspender/connector with profiles	> 0.7 – 2.25 mm
	Wet Room Screw LN 3.9 x 11	Screw fastening of profiles, suspender/connector with profiles for wet area grids/frames	≤ 0.7 mm
	KAW Screw 4.8 x 22	Screw fastening of KAW brackets with KAW Façade Profile 150 for exterior wall systems	> 1.0 – 2.25 mm

Table 51: Dowels and anchoring

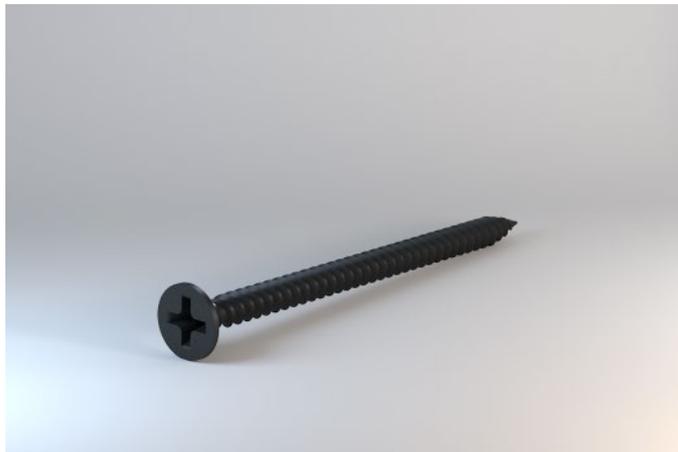
Product image	Product	Field of application	Substrate
	Multi-Purpose Screw FN 4.3 x 35	Fixing of loads, suspenders, perimeter profiles and brackets	Wooden beams, studs and beams, profiles and cladding/ lining of Knauf suspended ceilings and wall systems
	Multi-Purpose Screw FN 4.3 x 65		
	Hartmut Cavity Dowel	Fixing of loads, perimeter profiles and brackets	Profiles and cladding of Knauf suspended ceilings and wall systems
	Nailable Plug	Fastening of brackets, suspenders (in case of furring / lining acc. to W623) as well as perimeter profiles or frame and sill plate timbers	Stable masonry without cavities or light concrete, reinforced concrete sides
	Ceiling Steel Dowel	Fixing of brackets, suspenders and perimeter profiles	Reinforced concrete sides
	Ceiling Steel Dowel corrosion protection A4	Fixing of brackets, suspenders and perimeter profiles for wet area grids/frames	Reinforced concrete sides

Table 52: Overview of areas of application

Product image	Product	Diameter	Length	Metal stud frame (Penetration $\geq 10$ mm)	
				Metal gauge $s \leq 0.7$ mm Cladding thickness	Metal gauge $0.7 \text{ mm} < s \leq 2.25$ mm Cladding thickness
	Drywall Screw TN fine-pitch thread	3.5 mm	25 mm	$\leq 15$ mm	–
		3.5 mm	35 mm	$\leq 25$ mm	–
		3.5 mm	45 mm	$\leq 32.5$ mm	–
		3.5 mm	55 mm	$\leq 37.5$ mm	–
	Drywall Screw TN coarse-pitch thread	3.9 mm	35 mm	$\leq 15$ mm	–
		3.9 mm	45 mm	$\leq 37.5$ mm	–
		4.3 mm	55 mm	$\leq 45$ mm	–
		4.5 mm	70 mm	$\leq 50$ mm	–
		5.5 mm	90 mm	$\leq 50$ mm	–
	Drywall Screw TB with cutting point	3.5 mm	25 mm	–	$\leq 15$ mm
		3.5 mm	35 mm	–	$\leq 25$ mm
		3.5 mm	45 mm	–	$\leq 25$ mm
		3.5 mm	55 mm	–	$\leq 45$ mm
	Diamant Screw XTN	3.9 mm	23 mm	$\leq 12.5$ mm	–
		3.9 mm	33 mm	$\leq 18$ mm	–
		3.9 mm	38 mm	$\leq 25$ mm	–
		3.9 mm	55 mm	$\leq 45$ mm	–
	Diamant Screw XTB with cutting point	3.9 mm	38 mm	$12.5 + 0.4$ mm	$\leq 25$ mm
		3.9 mm	55 mm	$2 \times 12.5 + 0.4$ mm	$\leq 45$ mm
	Wet Room Screw XTN	3.9 mm	23 mm	$\leq 12.5$ mm	–
		3.9 mm	38 mm	$\leq 25$ mm	–
	Wet Room Screw XTB with cutting point	3.9 mm	38 mm	–	$\leq 25$ mm
	AQUAPANEL® Maxi Screw SN	4.0 mm	25 mm	$\leq 12.5$ mm	–
		4.0 mm	39 mm	$\leq 25$ mm	–
		4.0 mm	55 mm	$\leq 37.5$ mm	–
	AQUAPANEL® Maxi Screw SB with cutting point	4.0 mm	39 mm	–	
	AQUAPANEL® Façade Screw SN 40	4.0 mm	40 mm	–	–
	AQUAPANEL® Façade Screw SB 40	4.0 mm	40 mm	–	$\leq 25$ mm <sup>1)</sup>
	Ceiling screw white	3.5 mm	25 mm	$\leq 12.5$ mm	–
	Counter-sunk screw SN	3.5 mm	30 mm	$\leq 15$ mm	–
	Thermoboard screw TB with cutting point	3.5 mm	23 mm	–	$\leq 10$ mm
	Cleaneo GO! Special screw	4.5 mm	28 mm	$\leq 12.5$ mm	–
	Cleaneo-Caps R + LN 2.9	2.9 mm	16 mm	$\leq 12.5$ mm	–
	Cleaneo-Caps R + LN 3.5	3.5 mm	11 mm	$\leq 12.5$ mm	–
	Cleaneo-Caps Q + LN 3.5	3.5 mm	11 mm	$\leq 12.5$ mm	–

Wooden frame Penetration depth $\geq 5 d_n$  Cladding thickness	Profiles	Cladding Suitable e.g. for the following cladding
$\leq 6.5$ mm	UW, MW, CD, UD, CW profile, Hat-Shaped Channel, Resilient Channels	Techniform Board GKB, Wallboard, Fire-Resistant Board Knauf Piano, Fire-Resistant Board, X-Ray Shielding Board, Solid Board, Fireboard, Horizonboard
$\leq 15$ mm		
$\leq 25$ mm		
$\leq 37.5$ mm		
$\leq 15$ mm	UW, MW, CD, UD, CW profile, Hat-Shaped Channel, Resilient Channels	Techniform Board GKB, Wallboard, Fire-Resistant Board Knauf Piano, Fire-Resistant Board, X-Ray Shielding Board, Solid Board, Fireboard, Horizonboard
$\leq 25$ mm		
$\leq 37.5$ mm		
$\leq 50$ mm		
$\leq 50$ mm		
–	UA profile heavy load profile	Techniform Board GKB, Wallboard, Fire-Resistant Board Knauf Piano, Fire-Resistant Board, X-Ray Shielding Board, Solid Board, Fireboard, Horizonboard
–		
–		
–		
–	UW, MW, CD, UD, CW profile, Hat-Shaped Channel, Resilient Channels	Diamant, Safeboard, Silentboard
$\leq 15$ mm		
$\leq 20$ mm		
$\leq 37.5$ mm		
–	UA profile heavy load profile	Diamant, Diamant Steel GKFI, Safeboard, Silentboard
–		
–	UW, CD, UD, CW Profile, Hat-Shaped Channel	Drystar Board, Diamant in exterior not exposed to weather
–		
–	UA profile	
–	UW, CD, UD, CW Profile C3/C5M	AQUAPANEL® Cement Board Indoor/Outdoor/SkyLite
$\leq 12.5$ mm		
$\leq 25$ mm		
–	UA Profile C3-C5M	AQUAPANEL® Cement Board Indoor/Outdoor
$\leq 25$ mm	Aluminium furring channel	AQUAPANEL® Cement Board Outdoor
–	Wooden frame	AQUAPANEL® Cement Board Outdoor
$\leq 12.5$ mm		Cleaneo Complete
$\leq 15$ mm		Thermoboard Plus, Cleaneo Akustik FF / SK / linear
–		Thermoboard or Thermoboard Plus, Cleaneo Acoustic Thermoboard Cleaneo Acoustic Thermoboard Plus
$\leq 12.5$ mm		Cleaneo GO!
–	UW, CD, UD, CW Profile, Hat-Shaped Channel	Cleaneo Classic boards 8R
–		Cleaneo Classic boards 10R / 12R
–		Cleaneo Classic boards 12/25 Q

### Drywall Screw TN fine-pitch thread



Drywall screws with sharp point and self-tapping fine-pitch threads made of unalloyed steel with phosphated corrosion protection. The narrow fine-pitch thread guarantees optimum grip in profiles made of sheet metal.

The Drywall Screw TN fine-pitch thread is used with the fastening of gypsum boards to a grid made of sheet metal as well as for the fastening of suspenders to timber substrates. It is fundamentally suited for use in timber construction. A sufficient screw length must be selected to suit the cladding thickness.

#### Technical data

Table 53: Drywall Screws TN with fine-pitch thread technical data

Description	Unit	Value	Standard
Thread type		Double fine-pitch thread	DIN 18182-2
Head		Flat trumpet head	
Protective layer		Phosphated	
Slot shape		Cross slot screw PH2	
Type	–	TMN	EN 14566
Flexural strength F	–	fulfilled	EN 14566
Reaction to fire	–	A1	EN 13501
Corrosion protection	h	48	EN 14566
Resistance to withdrawal (metal profile)	N	≥ 450	–
Nominal diameter	mm	3.5	–
Penetration	mm	≥ 10	–
Length			
TN 3.5 x 25	mm	25	–
TN 3.5 x 35	mm	35	–
TN 3.5 x 45	mm	45	–
TN 3.5 x 55	mm	55	–
Suitable for metal gauge	mm	≤ 0.7	–

#### Properties and added value

- Easy and fast to screw in
- Phosphate-treated for corrosion protection with short-term exposure to moisture, e.g. during the building and transport phases
- Self-tapping
- Flat trumpet head

#### Cladding options

Table 54: Suitable e.g. for the following cladding

Description	Techniform Board GKB	GKB	GKF	Fireboard	Horizonboard GKF	Solid Board	Solid Board + GKF	Knauf Plano fire-resistant board
<b>TN 3.5 x 25 mm</b>								
6.5 mm	•							
9.5 mm		•						
12.5 mm		•		•	•			•
15 mm			•	•				
<b>TN 3.5 x 35 mm</b>								
2x 12.5 mm		•		•				•
18 mm			•					
20 mm				•		•		
25 mm				•		•		
<b>TN 3.5 x 45 mm</b>								
2x 15 mm			•					
18 + 15 mm			•					
20 + 12.5 mm			•				•	
30 mm				•				
<b>TN 3.5 x 55 mm</b>								
3x 12.5 mm		•						•
2x 20 mm						•		
25 + 18 mm							•	

### Drywall Screw TN coarse-pitch thread



Drywall screws with sharp point and coarse-pitch thread made of unalloyed steel with phosphated corrosion protection for wood. The coarse-pitch thread guarantees optimum grip in timber.

The Drywall Screw TN coarse-pitch thread is used for the fastening of gypsum boards to a grid made of timber. Furthermore, the Drywall Screw can also be used for the fastening of suspenders in wooden substrates or for the connection of carrying and furring timber battens. It is fundamentally suited for use in timber construction. A sufficient screw length must be selected to suit the cladding thickness.

#### Technical data

Table 55: Drywall Screws TN with coarse-pitch thread technical data

Description	Unit	Value	Standard
Thread type		Single coarse-pitch thread	EN 14566
Head		Flat trumpet head	
Protective layer		Phosphated	
Slot shape		Cross slot screw PH2	
Type	–	THN	EN 14566
Flexural strength F	–	fulfilled	EN 14566
Reaction to fire	–	A1	EN 13501
Corrosion protection	h	48	
Resistance to withdrawal (timber batten)	N	≥ 450	
<b>Length</b>			
TN 3.9 x 35	mm	35	–
TN 3.9 x 45	mm	45	–
TN 4.3 x 55	mm	55	–
TN 4.5 x 70	mm	70	–
TN 5.5 x 90	mm	90	–
Minimum penetration depth s	mm	$s \geq 5 d_N$	DIN 18181

#### Properties and added value

- Easy and fast to screw in
- Phosphate-treated for corrosion protection with short-term exposure to moisture, e.g. during the building and transport phases
- Self-tapping
- Flat trumpet head

#### Cladding options

Table 56: Suitable e.g. for the following cladding

Description	Techniform Board GKB	GKB	GKF	Fireboard	Horizonboard GKF	Solid Board	Solid Board + GKF	Knauf Piano fire-resistant board
<b>TN 3.9 x 35 mm</b>								
6.5 mm	•							
9.5 mm		•						
12.5 mm		•		•	•			•
15 mm			•	•				
<b>TN 3.9 x 45 mm</b>								
2x 12.5 mm		•		•				•
18 mm			•					
20 mm				•		•		
25 mm				•		•		
<b>TN 4.3 x 55 mm</b>								
2x 15 mm			•					
18 + 15 mm			•					
20 + 12.5 mm							•	
30 mm				•				
<b>TN 4.5 x 70 mm</b>								
3x 12.5 mm		•						•
2x 18 mm			•					
2x 25 mm							•	
<b>TN 5.5 x 90 mm</b>								
Triple board strip under wooden joists								
Special constructions								

### Drywall Screw TB with cutting point



Drywall screws with cutting point and self-tapping metal screw threads made of unalloyed steel with phosphated corrosion protection. The combination of cutting point and suitable thread guarantees optimum penetration and firm grip in larger profile thicknesses.

The Drywall Screw TB with cutting point is used for the application in the fastening of gypsum boards to a grid made of sheet metal with enhanced profile thicknesses (> 0.70 to 2.25 mm) such as, e.g. UA profiles. A sufficient screw length must be selected to suit the cladding thickness.

#### Technical data

Table 57: Drywall Screws TN with cutting point technical data

Description	Unit	Value	Standard
Thread type	Double thread		EN 14566
Head	Flat trumpet head		
Protective layer	Phosphated		
Slot shape	Cross slot screw PH2		
Type	–	TSD	EN 14566
Flexural strength F	–	fulfilled	EN 14566
Reaction to fire	–	A1	EN 13501
Corrosion protection	h	48	EN 14566
Resistance to withdrawal	N	≥ 450	EN 14566
Nominal diameter	mm	3.5	–
Penetration	mm	≥ 10	–
Length			
TB 3.5 x 25	mm	25	–
TB 3.5 x 35	mm	35	–
TB 3.5 x 45	mm	45	–
TB 3.5 x 55	mm	55	–
Suitable for metal gauge	mm	> 0.70 – 2.25	–

#### Properties and added value

- Cutting point for increased profile thickness
- Phosphate-treated for corrosion protection with short-term exposure to moisture, e.g. during the building and transport phases
- Flat trumpet head

#### Cladding options

Table 58: Suitable e.g. for the following cladding

Description	Techniform Board GKB	GKB	GKF	Fireboard	Horizonboard GKF	Solid Board	Solid Board + GKF	Knauf Plano fire-resistant board
TB 3.5 x 25 mm								
6.5 mm	•							
9.5 mm		•						
12.5 mm		•		•	•			•
15 mm			•	•				
TB 3.5 x 35 mm								
2x 12.5 mm		•		•				•
18 mm			•					
20 mm				•		•		
25 mm				•		•		
TB 3.5 x 45 mm								
2x 15 mm			•					
18 + 15 mm			•					
20 + 12.5 mm							•	
30 mm				•				
TB 3.5 x 55 mm								
3x 12.5 mm		•						•
2x 20 mm						•		
25 + 18 mm							•	

### Diamant Screw XTN



Drywall Screw with sharp point and self-tapping special thread made of unalloyed steel for hard gypsum boards with phosphated corrosion protection. The special thread geometry ensures easy insertion and tightening of the screw in hard gypsum boards.

The Diamant Screw XTN is used with the fastening of hard gypsum boards such as Diamant, Silentboard or Safeboard on grids made of sheet metal or wood (with the exception of XTN 3.9 x 23 mm).

A sufficient screw length must be selected to suit the cladding thickness.

#### Technical data

Table 59: Diamant Screw XTN technical data

Description	Unit	Value	Standard
Thread type	Special thread		EN 14566
Head	Pan head		
Protective layer	Phosphated		
Slot shape	Cross slot screw PH2		
Type	–	PUN	EN 14566
Flexural strength F	–	fulfilled	EN 14566
Reaction to fire	–	A1	EN 13501
Corrosion protection	h	48	EN 14566
Resistance to withdrawal (steel/timber)	N	≥ 450	EN 14566
Nominal diameter	mm	3.9	–
Penetration	mm	≥ 10	–
Length			
XTN 3.9 x 23	mm	23	–
XTN 3.9 x 33	mm	33	–
XTN 3.9 x 38	mm	38	–
XTN 3.9 x 55	mm	55	–
Suitable for metal gauge	mm	≤ 0.7	–

#### Properties and added value

- Special geometry for fast and easy application of screws in hard gypsum boards
- Phosphate-treated for corrosion protection with short-term exposure to moisture, e.g. during the building and transport phases
- Self-tapping
- Pan head

#### Cladding options

Table 60: Suitable e.g. for the following cladding

Description	Diamant	Safeboard	Silentboard
XTN 3.9 x 23 mm			
12.5 mm	•	•	•
XTN 3.9 x 33 mm			
15 mm	•		
18 mm	•		
XTN 3.9 x 38 mm			
2x 12.5 mm	•	•	•
XTN 3.9 x 55 mm			
3x 12.5 mm	•	•	•
15 + 18 mm	•		

### Diamant Screw XTB with cutting point



Drywall Screw with cutting point and self-tapping special thread made of unalloyed steel with a special geometry for screwing on hard gypsum boards, with phosphated corrosion protection. The special thread geometry ensures easy insertion and tightening of the screw-in hard gypsum boards.

Diamant Screw XTB with cutting point is used for fastening hard gypsum boards such as Diamant, Silentboard or Safeboard on grids made of sheet metal or enhanced material thickness.

A sufficient screw length must be selected to suit the cladding thickness.

#### Properties and added value

Table 61: Diamant Screw XTB with cutting point technical data

Description	Unit	Value	Standard
Thread type	Special thread		EN 14566
Head	Pan head		
Protective layer	Phosphated		
Slot shape	Cross slot screw PH2		
Type	–	PUD	EN 14566
Flexural strength F	–	fulfilled	EN 14566
Reaction to fire	–	A1	EN 13501
Corrosion protection	h	48	EN 14566
Resistance to withdrawal (timber)	N	≥ 450	EN 14566
Nominal diameter	mm	3.9	–
Penetration	mm	≥ 10	–
Length			
XTN 3.9 x 38	mm	38	–
XTN 3.9 x 55	mm	55	–
Suitable for metal gauge	mm	> 0.7 – 2.25	–

- Special geometry for fast and easy application of screws in hard gypsum boards
- Phosphate-treated for corrosion protection with short-term exposure to moisture, e.g. during the building and transport phases
- Pan head
- Cutting point for increased profile thickness

#### Technical data

#### Cladding options

Table 62: Suitable e.g. for the following cladding

Description	Diamant	Diamant Steel GKF1 <sup>1)</sup>	Safeboard	Silentboard
<b>XTB 3.9 x 38 mm</b>				
12.5 mm	•		•	•
12.5 + 0.4 mm		•		
15 mm	•			
18 mm	•			
2x 12.5 mm	•		•	•
1x 12.5 mm Diamant + 1x 12.5 + 0.4 mm	•	•		
2x 12.5 + 0.4 mm		•		
<b>XTB 3.9 x 55 mm</b>				
3x 12.5 mm	•		•	•
15 + 18 mm	•			
1x 25 Solid Board + 12.5 Diamant on UA Profile	•			
3x 12.5 mm Diamant + 2x 0.5 mm sheet metal on UA profile	•			

1) Use Diamant Screw XTB with cutting point for Diamant Steel and also for CW profiles

### Counter-sunk screws SN



Dywall Screw with self-tapping metal screw thread and sharp point made of unalloyed steel for screw fastening of Knauf Cleaneo Acoustic boards on grids made of sheet metal, with phosphated corrosion protection.

#### Technical data

Table 63: Counter-Sunk Screw SN technical data

Technical data	Unit	Value	Standard
Thread type		Double thread	DIN 18182-2
Head		Flat trumpet head	
Protective layer		Phosphated	
Slot shape		Cross slot screw PH2	
Type	–	TMN	EN 14566
Flexural strength F	–	fulfilled	EN 14566
Reaction to fire	–	A1	EN 13501
Corrosion protection	h	48	EN 14566
Resistance to withdrawal	N	≥ 450	EN 14566
Nominal diameter	mm	3.5	–
Penetration	mm	≥ 10	–
Length	mm	30	–
Suitable for metal gauge	mm	≤ 0.7	–

#### Properties and added value

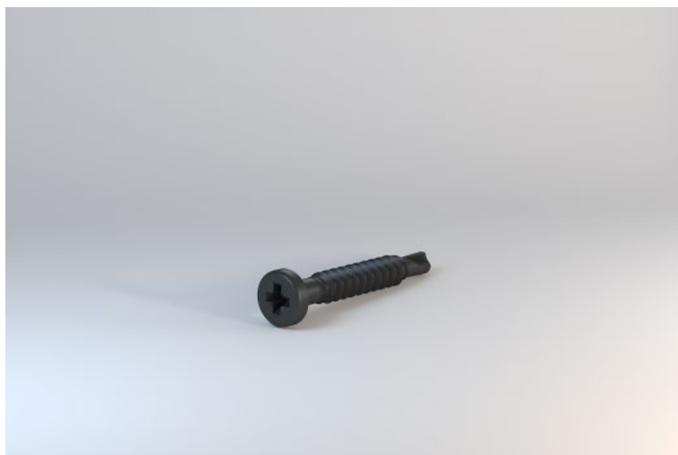
- Easy and fast to screw in
- Phosphate-treated for corrosion protection with short-term exposure to moisture, e.g. during the building and transport phases
- Self-tapping
- Flat trumpet head

#### Cladding options

Table 64: Suitable e.g. for the following cladding

Description	Thermoboard Plus (non-perforated)	Thermoboard Plus	Cleaneo Acoustic FF / SK / linear	Cleaneo Acoustic SK (for ball impact safety)
SN 3.5 x 30 mm				
10 mm	•	•		
12.5 mm			•	
15 mm				•

### Thermoformed screw TB with cutting point



Corrosion-protected Drywall Screw with special drill point and self-tapping thread made of unalloyed steel for screw fastening all Thermoboard variants. Its special drilling thread and matching flat head ensure an optimum perforation design and a perfect surface appearance. Protected against corrosion by phosphating.

The Thermoboard Screw TB is used for screw fastening Thermoboard and Thermoboard Plus as well as the perforated variants Cleaneo Acoustic Thermoboard and Cleaneo Acoustic Thermoboard Plus onto grids/frames made of sheet metal.

#### Technical data

Table 65: Thermoboard Screw TB with cutting point technical data

Technical data	Unit	Value	Standard
Thread type		Double fine-pitch thread	DIN 18182-2
Head		Pan head	
Protective layer		Phosphated	
Slot shape		Cross slot screw PH2	
Type	–	PMD	EN 14566
Flexural strength F	–	fulfilled	EN 14566
Reaction to fire	–	A1	EN 13501
Corrosion protection	h	48	EN 14566
Resistance to withdrawal	N	≥ 450	EN 14566
Nominal diameter	mm	3.5	–
Penetration	mm	≥ 10	–
Length	mm	25	–
Suitable for metal gauge	mm	≥ 0.7	–

#### Properties and added value

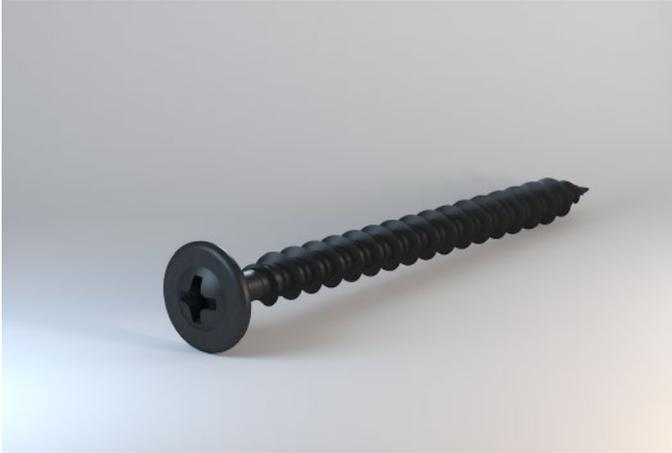
- Easy and fast to screw into Thermoboards
- Phosphate-treated for corrosion protection with short-term exposure to moisture, e.g. during the building and transport phases
- With cutting point
- Pan head

#### Cladding options

Table 66: Suitable e.g. for the following cladding

Description	Thermoboard	Thermoboard Plus	Cleaneo Acoustic Thermoboard	Cleaneo Acoustic Thermoboard Plus
TB 3.5 x 23 mm				
10 mm	•	•	•	•

### Multi-Purpose Screw FN



Drywall screws with medium-pitch thread and sharp point made of unalloyed steel with phosphated corrosion protection. The special thread guarantees optimum grip both in the metal as well as in timber.

The Multi-Purpose Screw FN is used for the fastening of suspenders on timber and sheet steel, the installation of the multi-level ceiling system and the anchoring of the perimeter runners of free-spanning ceilings in metal stud partitions.

A sufficient screw length must be selected to suit the cladding thickness.

#### Suitable for the following applications:

Multi-Purpose Screw FN 4.3 x 35 mm

- Fastening of ceiling suspenders (no dampening rubbers)
- Fastening Multi-level ceiling system

Multi-Purpose Screw FN 4.3 x 65 mm

- Fastening of dampening rubbers
- Fastening Multi-level ceiling system
- Fastening perimeter runners on the walls

#### Properties and added value

- Easy and fast to screw in
- Phosphate-treated for corrosion protection with short-term exposure to moisture, e.g. during the building and transport phases
- Double-pitch special thread
- Pan round head

#### Technical data

Table 67: Multi-Purpose Screw FN technical data

Technical data	Unit	Value	Standard
Thread type		Double thread	DIN 18182-2
Head		Pan round head	
Protective layer		Phosphated	
Slot shape		Cross slot screw PH2	
Type	–	WUN	EN 14566
Flexural strength F	–	fulfilled	EN 14566
Reaction to fire	–	A1	EN 13501
Corrosion protection	h	48	EN 14566
Resistance to withdrawal (timber)	N	≥ 450	EN 14566
Nominal diameter	mm	4.3	–
Length			
FN 4.3 x 35	mm	35	–
FN 4.3 x 65	mm	65	–

### Wet Room Screw XTN



Corrosion protected Drywall Screw with sharp point and self-tapping special thread made of unalloyed steel for the screw fastening of Drystar Board to a metal grid with the classification C3-C5M. The special thread geometry ensures easy insertion and tightening of the screw in Drystar Boards.

The Drystar Screw XTN is used for the application in the fastening of Drystar Board onto grids/frames made of sheet metal in damp and wet rooms.

A sufficient screw length must be selected to suit the cladding thickness.

#### Properties and added value

- Special geometry for fast and easy application of screws in Drystar boards

- Corrosion protection thanks to a special coating
- Self-tapping
- Pan head

#### Technical data

#### Cladding options

Table 69: Suitable e.g. for the following cladding

Description	Drystar Board
XTN 3.9 x 23 mm	
12.5 mm	•
XTN 3.9 x 38 mm	
2x 12.5 mm	•

Table 68: Wet room screws XTN technical data

Description	Unit	XTN	Standard
Thread type	Special thread		EN 14566
Head	Pan head		
Protective layer	Special coating		
Slot shape	Cross slot screw PH2		
Type	–	PUN	EN 14566
Flexural strength F	–	fulfilled	EN 14566
Reaction to fire	–	A1	EN 13501
Corrosion protection	h	96	EN 14566
Resistance to withdrawal (timber)	N	≥ 450	EN 14566
Nominal diameter	mm	3.9	–
Penetration	mm	≥ 10	–
Length			
XTN 3.9 x 23	mm	23	–
XTN 3.9 x 33	mm	33	–
Suitable for metal gauge	mm	≤ 0.7	–

**Wet Room Screw XTB with cutting point**


Corrosion-protected Drywall Screw with cutting point and self-tapping special thread made of unalloyed steel for screw fastening the Drystar Board in damp and wet rooms. The special thread geometry ensures easy insertion and tightening of the screw in Drystar Boards.

The Drystar Schraube XTB screw with cutting point is used in the fastening of Drystar Board to grids made of coated sheet metal with enhanced material thickness.

A sufficient screw length must be selected to suit the cladding thickness.

**Properties and added value**

Table 70: Wet Room Screws XTB with cutting point technical data

Description	Unit	Value	Standard
Thread type	Special thread		EN 14566
Head	Pan head		
Protective layer	Special coating		
Slot shape	Cross slot screw PH2		
Type	–	PUD	EN 14566
Flexural strength F	–	fulfilled	EN 14566
Reaction to fire	–	A1	EN 13501
Corrosion protection	h	96	EN 14566
Resistance to withdrawal (timber)	N	≥ 450	EN 14566
Nominal diameter	mm	3.9	–
Penetration	mm	≥ 10	–
Length			
XTB 3.9 x 38	mm	38	–
Suitable for metal gauge	mm	> 0.7 – 2.25	–

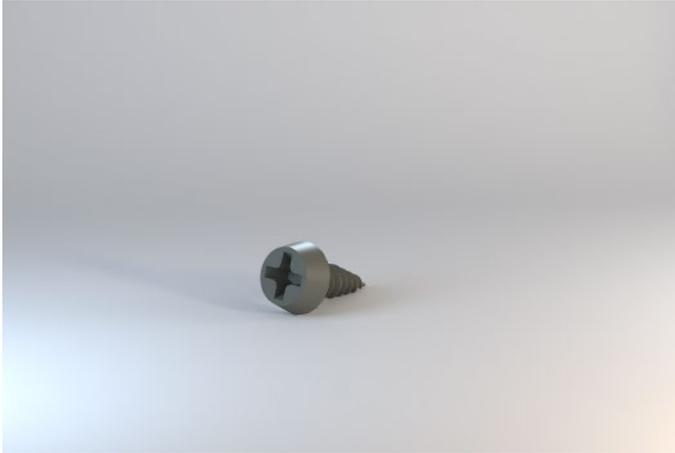
- Special geometry for fast and easy application of screws in Drystar boards
- Corrosion protection thanks to a special coating
- Pan head
- Cutting point for increased profile thickness

**Technical data**
**Cladding options**

Table 71: Suitable e.g. for the following cladding

Description	Drystar Board
XTB 3.9 x 38 mm	
12.5 mm	•
2x 12.5 mm	•

## Wet Room Screw LN



Metal screw with self-tapping fine-pitch threads and sharp point for application in wet and damp rooms, corrosion protected with a special coating.

The Wet Room Screw LN can be used for the connection of elements of a corrosion protected grid C3-C5M made of sheet metal.

## Properties and added value

- For screw fastening of C3-C5M profiles
- Easy and fast to screw into metal
- Self-tapping
- Pan head
- Colour shade grey

## Technical data

Table 72: Wet Room Screws LN technical data

Technical data	Unit	Value	Standard
Thread type		Sheet metal screw thread	DIN 18182-2
Head		Pan head	
Protective layer		Special coating	
Slot shape		Cross slot screw PH2	
Type	–	USN	EN 14566
Flexural strength F	–	fulfilled	EN 14566
Reaction to fire	–	A1	EN 13501
Corrosion protection	h	96	EN 14566
Resistance to withdrawal	N	≥ 450	EN 14566
Nominal diameter	mm	3.9	–
Length			
LN 3.9 x 11	mm	11	–
Suitable for metal gauge	mm	≤ 0.7	–

## Cleaneo-Caps R



### Cleaneo-Caps R, fastening for Knauf Cleaneo Acoustic linear boards with circular perforation

The Cleaneo-Caps R are coated, corrosion-protected metal mounting sleeves. They are the optimum fasteners for Knauf Cleaneo Acoustic linear boards with circular perforation. You can screw them directly into the perforations of the acoustic boards so that the time-consuming filling of the screw heads becomes unnecessary.

The Caps are optimally matched to the corresponding perforation pattern and available for 12.5 mm thick Cleaneo Acoustic linear or Cleaneo Complete boards with black fleece (black screw) or white fleece (white screw) on the rear.

### Properties and added value

- Optically matched to the perforation design
- Concealed installation
- Filling the screws is no longer required
- Same screw clearances as with normal screw fastening

### Construction

Cleaneo Caps should be applied exclusively with the enclosed screws and bits. Avoid overtightening the screw thread (otherwise the screw pull-out resistance is reduced). Press the boards firmly onto the grid during screw fastening. Commence screw fastening in the corner, where the board is already bordering a board on the long and front side. Fasten the long side first and then the front side.

#### Note

Apply Cleaneo-Caps 8R to front edges with double CD 60/27. Here it can be easily screwed into the second perforation row. Knauf Cleaneo-Caps are not rated for dynamic loads, e.g. alternating loads due to wind.

## Application examples



### Technical data

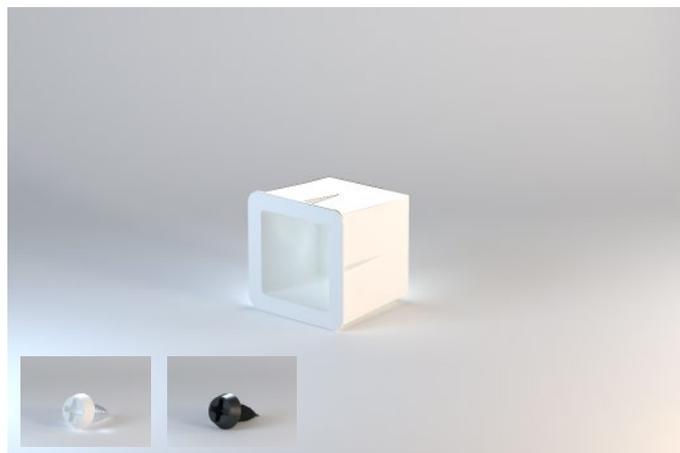
Table 73: Technical data Cleaneo-Caps R

Technical data	Unit	Value	Standard
Loadbearing capacity			
8R	N	320	EN 13964
10R	N	320	
12R	N	320	
Fastening sleeve external diameter			
8R	mm	8	–
10R	mm	10	–
12R	mm	12	–
Screw type Metal Screws			
Cleaneo Caps 8R	–	LN 2.9 x 16	DIN 18182-2
Cleaneo Caps 10R, 12R	–	LN 3.5 x 11	DIN 18182-2
Screw colour	Black or white		–



Installation Instructions [Cleaneo linear K761L-A01.de](https://www.knauf-ceiling.com/~/media/Products/Accessories/Cleaneo/Cleaneo_linear_K761L-A01.de)

## Cleaneo-Caps Q

**Cleaneo-Caps Q, fastening for Knauf Cleaneo Acoustic linear boards with square perforation**

Cleaneo-Caps Q are square fastening sleeves made of white plastic. They are the optimum fasteners for Knauf Cleaneo Acoustic linear boards with square perforation. You can screw them directly into the perforations of the acoustic boards so that the time-consuming filling of the screw becomes unnecessary.

The Caps are optimally matched to the corresponding perforation pattern of the 12/25 Q punching and available for 12.5 mm thick Cleaneo Acoustic linear boards with black fleece (black screw) or white fleece (white screw) on the rear.

**Properties and added value**

- Optically matched to the perforation design
- Concealed installation
- Filling the screws is no longer required
- Same screw clearances as with normal screw fastening

**Construction**

Cleaneo Caps should be applied exclusively with the enclosed screws and bits. Avoid overtightening the screw thread (otherwise the screw pull-out resistance is reduced). Press the boards firmly onto the grid during screw fastening. Commence fastening in the corner, where the board is already bordering a board on the long and front side. Fasten the long side first and then the front side.

**Note**

Apply Cleaneo-Caps 8R to front edges with double CD 60/27. Cleaneo-Caps are not rated for dynamic loads, e.g. alternating loads due to wind.

**Technical data**

Table 74: Technical data Cleaneo-Caps Q

Technical data	Unit	Value	Standard
Loadbearing capacity 12Q	N	320	EN 13964
Fastening sleeve external diameter	mm	12	–
Screw type	–	LN 3.5 x 11	DIN 18182-2
Screw colour	Black or white		–



Installation Instructions [Cleaneo linear K761L-A01.de](#)

### Cleaneo GO!



Cleaneo GO! special screws are a quick and uncomplicated solution for fastening of Cleaneo GO! acoustic boards to the grid.

Thus, the white screws are perfectly integrated into the visual appearance of the Cleaneo GO! board perforations and eliminate the need to fill the screw heads with filler. The screws are almost undetectable on the ceiling.

#### Properties and added value

- Coated white
- Special screw for fastening the Cleaneo GO! Acoustic board
- Optimized head
- Self-tapping
- Galvanized

#### Technical data

Table 75: Cleaneo GO! Technical data

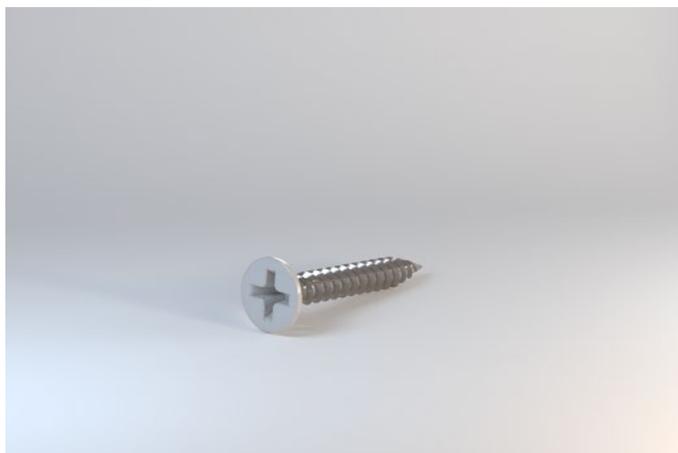
Technical data	Unit	Value	Standard
Thread type	Single thread		DIN 18182-2
Head	Special cylinder head		
Protective layer	Galvanized, head coated white		
Slot shape	TX 20		
Type	–	CHD	EN 14566
Flexural strength F	–	fulfilled	EN 14566
Reaction to fire	–	A1	EN 13501
Corrosion protection	h	24	EN 14566
Nominal diameter	mm	4.5	–
Penetration	mm	10	–
Length	mm	28	–

### Cladding options

Table 76: Suitable e.g. for the following cladding

Description		Acoustic system Cleaneo GO!
Cleaneo GO! Special screw		
4.5 x 28 mm		●

### Ceiling screw white



The ceiling screw white is a special screw with a white head for visible screw fastening with Knauf Cleaneo Complete.

Knauf Cleaneo Complete ceiling systems already have a ready-to-use surface, so that the screw is practically invisible due to its white coating.

#### Properties and added value

- Screw head coated white
- Special screw for screw fastening Knauf Cleaneo Complete

#### Technical data

Table 77: Ceiling screw white technical data

Technical data	Unit	Value	Standard
Thread type	Single thread		DIN 18182-2
Head	Recessed head		
Protective layer	Galvanized, coated white		
Slot shape	PH2		
Type	TSN		EN 14566
Reaction to fire	–	A1	EN 13501
Resistance to withdrawal	N	450	EN 14566
Nominal diameter	mm	3.5	–
Penetration	mm	≥ 10	–
Length	mm	25	–

### Cladding options

Table 78: Suitable e.g. for the following cladding

Description	Knauf Cleaneo Complete
Contrapanel ceiling screw	
3.5 x 25 mm	●

Gypsum fibre floor screw SN



Special gypsum fibre screw with hemispherical burnishing head and thread-free section underneath the head for Brio units, phosphated.

The Gypsum fibre floor screw SN is used for screw fastening of Brio units in the rebated edges as well as screw fastening of Vidiwall 1Mann boards on grids/frames made of sheet metal.

A sufficient screw length must be selected to suit the cladding or screed thickness.

Technical data

Table 79: Gypsum fibre floor screw SN technical data

Technical data	Unit	Value	Standard
Thread type		Single coarse-pitch thread	DIN 18182-2
Head		Countersunk screw with cutting ribs	
Protective layer		Phosphated	
Slot shape		Cross slot screw PH2	
Type	–	USD	EN 14566
Flexural strength F	–	fulfilled	EN 14566
Reaction to fire	–	A1	EN 13501
Corrosion protection	h	48	EN 14566
Nominal diameter	mm	4.2	–
Length			
SN 4.2 x 17	mm	17	–
SN 4.2 x 22	mm	22	–

Properties and added value

- Screw geometry matched to gypsum fibre
- Easy and fast to screw in
- Self-tapping

Cladding options

Table 80: Suitable e.g. for the following applications

Description	Brio (in the rebated area)
SN 4.2 x 17 mm	
18 mm	•
SN 4.2 x 22 mm	
23 mm	•

### Gypsum fibre screw SN



Special gypsum fibre screw with countersunk ribs for Brio units and Vidiwall 1Mann, protected against corrosion by phosphating.

The gypsum fibre screw SN is used for screw fastening of Brio units in the rebated edges and on the surface as well as screw fastening of Vidiwall 1Mann boards on grids/frames made of sheet metal or wood.

A sufficient screw length must be selected to suit the cladding thickness.

### Technical data

Table 81: Gypsum fibre screw SN technical data

Technical data	Unit	Value	Standard
Thread type		Double-pitch special thread	DIN 18182-2
Head		Countersunk ribs	
Protective layer		Phosphated	
Slot shape		Cross slot screw PH2	
Type	–	TSD	EN 14566
Flexural strength F	–	fulfilled	EN 14566
Reaction to fire	–	A1	EN 13501
Corrosion protection	h	48	EN 14566
Resistance to withdrawal	N	≥ 450	EN 14566
Nominal diameter	mm	3.9	–
Penetration	mm	≥ 10	–
Length			
SN 3.9 x 30	mm	30	–
SN 3.9 x 45	mm	45	–

### Properties and added value

- Screw geometry matched to gypsum fibre boards
- Easy and fast to screw in
- Self-tapping
- Countersunk ribs

### Cladding options

Table 82: Suitable e.g. for the following cladding

Description	Brio 18 double layer	Brio 23 double layer	Vidiwall 1Mann
Gypsum fibre screw SN			
SN 3.9 x 30 mm	•		•
SN 3.9 x 45 mm		•	•

Gypsum board screw



Gypsum screws with self-tapping coarse-pitch threads and sharp point made of unalloyed steel with phosphated corrosion protection. The special geometry guarantees optimum grip when fastening gypsum boards to one another.

**Technical data**

Table 83: Gypsum board screw technical data

Technical data	Unit	Value	Standard
Thread type		Coarse-pitch thread	EN 14566
Head		Flat trumpet head	
Protective layer		Phosphated	
Slot shape		Cross slot screw PH2	
Type	–	THN	EN 14566
Flexural strength F	–	fulfilled	EN 14566
Reaction to fire	–	A1	EN 13501
Corrosion protection	h	48	EN 14566
Nominal diameter	mm	5.5	–
Length	mm	38	–

**Properties and added value**

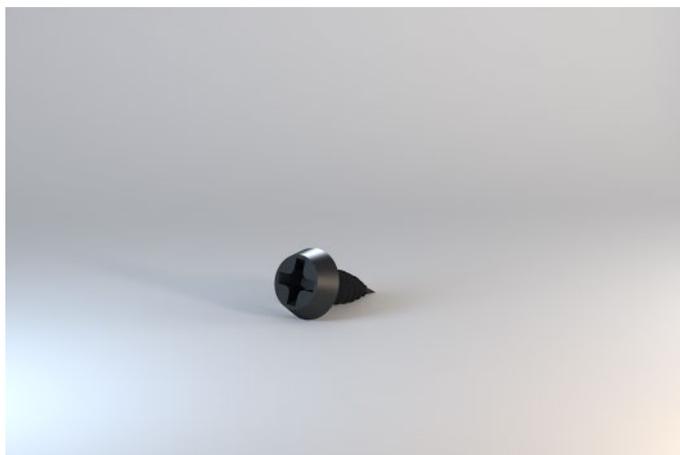
- Easy and fast to screw in
- Phosphate-treated for corrosion protection with short-term exposure to moisture, e.g. during the building and transport phases
- Coarse-pitch thread for optimum grip in the gypsum core
- Flat trumpet head

**Cladding options**

Table 84: Suitable e.g. for the following cladding

Description	Fireboard	DIY Board GKB on existing gypsum board	GKB / GKBI on existing gypsum board
5.5 x 38 mm			
9.5 mm		•	
12.5 mm			•
15 mm	•		
20 mm	•		

## Metal Screw LN



Metal Screws LN with sharp point made of unalloyed steel with phosphated corrosion protection.

The Metal Screw LN is used for screw fastening metal profiles to the frame of drywall systems made of sheet metal.

**Properties and added value**

- Easy and fast to screw in
- Phosphate-treated for corrosion protection with short-term exposure to moisture, e.g. during the building and transport phases
- Self-tapping

**Technical data**

Table 85: Metal Screws LN technical data

Description	Unit	Value	Standard
Thread type		Sheet metal screw thread	DIN 18182-2
Head		Pan head	
Protective layer		Phosphated	
Slot shape		Cross slot screw PH2	
Type	–	USN	EN 14566
Flexural strength F	–	fulfilled	EN 14566
Reaction to fire	–	A1	EN 13501
Corrosion protection	h	48	EN 14566
Resistance to withdrawal (metal profile)	N	≥ 450	EN 14566
Nominal diameter	mm	3.5	–
Length	mm	11	–
Suitable for metal gauge	mm	≤ 0.7	–

### Metal Screw LB with cutting point



Metal Screw LB (cutting point) with self-tapping fine-pitch threads made of unalloyed steel with phosphated corrosion protection.

The Metal Screw LN is used for screw fastening metal profiles to the frame of drywall systems made of sheet metal (even with enhanced profile thicknesses, e.g. for screw fastening UA profiles).

#### Properties and added value

- Easy and fast to screw in
- Phosphate-treated for corrosion protection with short-term exposure to moisture, e.g. during the building and transport phases
- Self-tapping
- Cutting point for increased profile thickness

#### Technical data

Table 86: Metal Screw LB with cutting point technical data

Description	Unit	Value	Standard
Thread type	Sheet metal screw thread		DIN 18182-2
Head	Pan head		
Protective layer	Phosphated		
Slot shape	Cross slot screw PH2		
Type	–	USD	EN 14566
Flexural strength F	–	fulfilled	EN 14566
Reaction to fire	–	A1	EN 13501
Corrosion protection	h	48	EN 14566
Resistance to withdrawal (metal profile)	N	≥ 450	EN 14566
Nominal diameter	mm	3.5	–
Length	mm	9.5	–
Suitable for metal gauge	mm	> 0.7 – 2.25	–

AQUAPANEL® Maxi Screw SN



AQUAPANEL® Maxi Screw SN with sharp point has been specially developed for the fastening of AQUAPANEL® Cement Board onto timber and metal frames. It can be used for both interior and exterior wall and ceiling applications. For screw fastening AQUAPANEL Cement Board to a grid with the classification C3-C5M.

Technical data

Table 87: AQUAPANEL® Maxi Screw SN technical data

Technical data	Unit	Value	Standard
Thread type		Double thread (HiLo thread)	EN 14566
Head		Recessed head	
Protective layer		Chromate coating < 1 %	
Slot shape		Cross slot screw PH2	
Type	–	UUN	EN 14566
Reaction to fire	–	A1	EN 13501
Corrosion protection	–	C4 / C5M	EN 14566
Resistance to withdrawal	N	450	EN 14566
Head diameter	mm	8.5 – 10.0	–
Nominal diameter	mm	4.0 – 4.3	–
Length			
SN 25 mm	mm	23.5 – 25	–
SN 39 mm	mm	38.0 – 40.0	–
SN 55 mm	mm	53.0 – 55.0	–
Suitable for material thickness			
SN 25 mm	mm	Metal 0.6 – 0.7	–
SN 39 mm	mm	Metal 0.6 – 0.7 Wood frame	–
SN 55 mm	mm	Metal 0.6 – 0.7 Wood frame	–

Properties and added value

- Easy and fast to screw in
- Corrosion protection thanks to a special coating
- Recessed head

Cladding options

Table 88: Suitable e.g. for the following cladding

Description	AQUAPANEL® Cement Board Indoor	AQUAPANEL® Cement Board Outdoor	AQUAPANEL® Cement Board SkyLife
4.2 x 25 mm			
12.5 mm, single-layer, metal grid	•	•	•
4.2 x 39 mm			
12.5 mm, single-layer, metal grid or wooden frame	•	•	•
12.5 mm, double-layer, metal grid	•	•	•
4.2 x 55 mm			
2.5 mm, double-layer, wooden frame	•	•	•
12.5 mm, triple-layer, metal grid	•	•	•

**AQUAPANEL® Maxi Screw SB with cutting point**


AQUAPANEL® Maxi Screw SB has been specially developed for the fastening of AQUAPANEL® Cement Board onto a metal frame. It can be used for both interior and exterior wall applications. For screw fastening AQUAPANEL Cement Board to a grid with the classification C3-C5M.

**Technical data**

Table 89: Technical data

AQUAPANEL® Maxi Screw SB with cutting point

Technical data	Unit	Value	Standard
Thread type		Fine-pitch thread	EN 14566
Head		Recessed head	
Protective layer		Chromate coating < 1 %	
Slot shape		Cross slot screw PH2	
Reaction to fire	–	A1	EN 13501
Corrosion protection	–	C4 / C5M	EN 14566
Resistance to withdrawal	N	450	EN 14566
Head diameter	mm	8.5 – 10.0	–
Nominal diameter	mm	3.7 – 4.0	–
Length	mm	38.0 – 40.0	–
Suitable for material thickness	mm	Metal 0.8 – 2.0	–

**Properties and added value**

- Easy and fast to screw in
- Corrosion protection thanks to a special coating
- Recessed head

**Cladding options**

Table 90: Suitable e.g. for the following cladding

Description	AQUAPANEL® Cement Board Indoor	AQUAPANEL® Cement Board Outdoor
4.2 x 39 mm		
12.5 mm	•	•
2x 12.5 mm	•	•

## AQUAPANEL® Façade Screw SN 40



AQUAPANEL® Façade Screw SN 40 with sharp point has been specially developed for the fastening of AQUAPANEL® Cement Board Outdoor onto timber frames. It can be used for both interior and exterior wall and ceiling applications.

## Technical data

Table 91: Technical data AQUAPANEL® Façade Screw SN 40

Technical data	Unit	Value	Standard
Thread type	HiLo thread		EN 14592
Head	Recessed head		
Protective layer	Stainless steel		
Slot shape	TX 20		
Reaction to fire	–	A1	EN 13501
Corrosion protection	–	KWK II	–
Resistance to withdrawal			
Along the grain	N/mm <sup>2</sup>	16.29	EN 14566
Transverse to grain	N/mm <sup>2</sup>	12.08	EN 14566
For wood pk	kg/m <sup>3</sup>	350	EN 14566
Head diameter	mm	8.7 – 9.0	–
Nominal diameter	mm	3.93 – 4.33	–
Length	mm	38.7 – 40.0	–
Suitable for material thickness	–	Wood frame back-ventilated	–

## Properties and added value

- Easy and fast to screw in
- Stainless steel V2A
- Recessed head

## Cladding options

Table 92: Suitable e.g. for the following cladding

Description	AQUAPANEL® Cement Board Outdoor
4.0 x 40 mm	
12.5 mm on wooden frames	•

**AQUAPANEL® Façade Screw SB 40**


AQUAPANEL® Façade Screw SB 40 with cutting point has been specially developed for the fastening of AQUAPANEL® Cement Board on 2 mm aluminium frames.

**Technical data**

Table 93: Technical data AQUAPANEL® Façade Screw SB 40

Technical data	Unit	Value	Standard
Thread type	HiLo thread		EN 14592
Head	Recessed head		
Protective layer	Stainless steel		
Slot shape	TX 20		
Reaction to fire	–	A1	EN 13501
Corrosion protection	–	KWK II	–
Resistance to withdrawal			
Along the grain	N/mm <sup>2</sup>	16.29	EN 14566
Transverse to grain	N/mm <sup>2</sup>	12.08	EN 14566
For wood pk	kg/m <sup>3</sup>	350	EN 14566
Head diameter	mm	8.7 – 9.3	–
Nominal diameter	mm	3.8 – 4.2	–
Length	mm	38.7 – 40.0	–
Suitable for material thickness	mm	2.0	–

**Properties and added value**

- Easy and fast to screw in
- Stainless steel V2A
- Recessed head

**Cladding options**

Table 94: Suitable e.g. for the following cladding

Description	AQUAPANEL® Cement Board Indoor	AQUAPANEL® Cement Board Outdoor
4.0 x 40 mm		
12.5 mm	•	•

## KAW Screw SB



## Properties and added value

- No predrilling required
- Screw fastening without splinters and chips within the construction
- Corrosion protection C3
- Hexagonal head

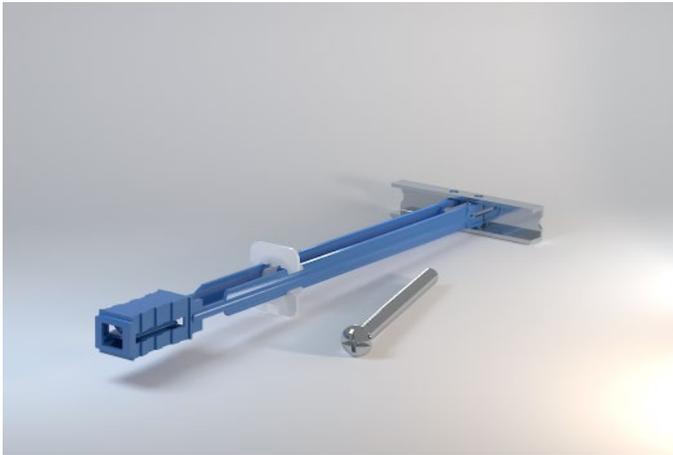
The Knauf exterior wall system enables the design and implementation of façades in old and new buildings. An ideal prerequisite for the use of non-load-bearing lightweight structures as exterior walls is a primary structure in a frame construction method in concrete, timber or steel.

For the grid of the Knauf Exterior Wall System, there are perfectly matched system components with the KAW steel angle, the KAW screw SB and the KAW façade profile, which guarantee optimum construction of the system.

## Technical data

Table 95: KAW Screw SB technical data

Technical data	Unit	Value	Standard
Protective layer	Stainless steel screw		
Head	Hexagonal head		
Corrosion protection	C3		
Flexural strength F	–	fulfilled	EN 14566
Reaction to fire	–	A1	EN 13501
Nominal diameter	mm	4.8	–
Length	mm	22	–

**Hartmut Cavity Dowel**


Hartmut is a clever cavity dowel and consists of metal and plastic with the accompanying screw (M5 x 60). It is an ideal fastener for and on drywall systems. Thanks to its functional principle using attachment clips with a click function, it flexibly adapts to all cladding thicknesses and can thus be used in every drywall partition.

Cavity Dowels Hartmut are used for fastening of loads.

- On metal and wood frame partitions up to 75 kg per dowel
- On suspended ceilings up to 6 kg per dowel and up to 6 kg per board span width and meter.

**Properties and added value**

- Easy and fast installation
- High application reliability
- High loadbearing capacity
- Permanent stability
- Suitable for all cladding thicknesses
- Variable application due to the attachment clips with click function

**Technical data**

Table 96: Hartmut Cavity Dowel technical data

Technical data	Unit	Value	Standard
Drill hole diameter	mm	13	
Screw type		M5 x 60	
Minimum spacing from edge	mm	75	DIN 18182
Minimum spacing from edge	mm	250	Knauf recommendation



System data sheet [Knauf Metal Stud Partitions W11.de](http://Knauf Metal Stud Partitions W11.de)  
 Technical Information [Fastening of loads to Knauf Wall and Ceiling Systems VT03.de](http://Fastening of loads to Knauf Wall and Ceiling Systems VT03.de)

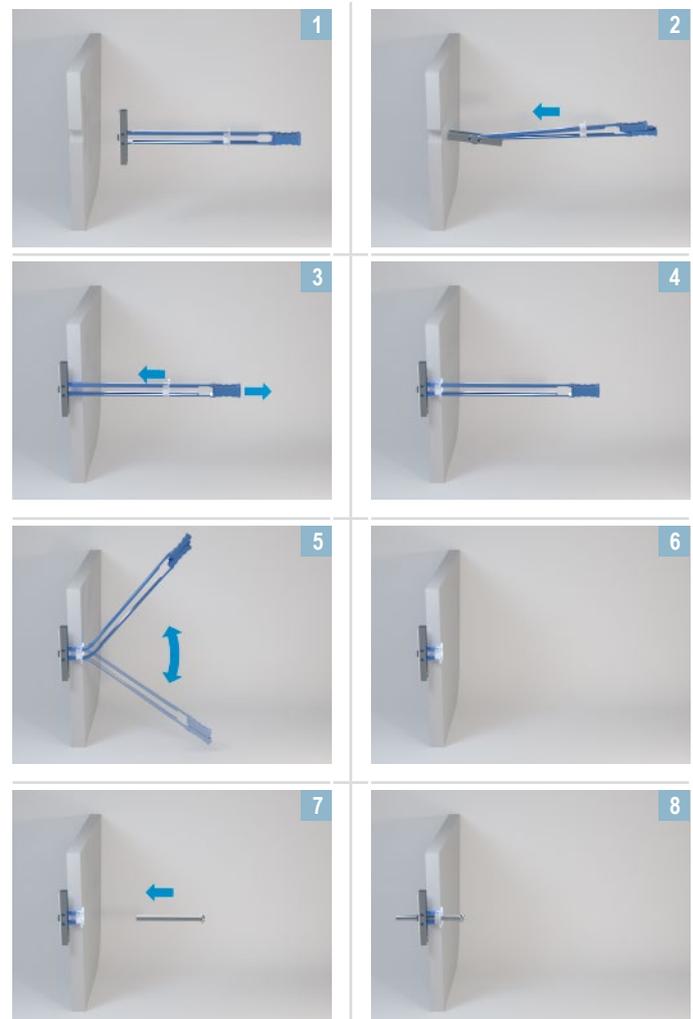
**Note**

Installation requires about 5 cm free space behind the wall / ceiling for insertion of the cavity dowel.

**Fixing loads**

Table 97: Fixing loads Hartnut Cavity Dowel

Cladding	Max. dowel load capacity in kg				
	GKB	GKF	Diamant / Silentboard	Diamant Steel GKFI	Traverses
12.5 mm	20	30	40	-	-
15 mm	-	35	50	-	-
18 mm	-	40	60	-	-
25 mm	-	60	-	-	-
2x 12.5 mm	45	60	75	-	-
2x 15 mm	-	70	75	-	-
12.5 + 0.4 mm	-	-	-	80	-
2x 12.5 + 0.4 mm	-	-	-	100	-
Steel Anchoring Traverse	-	-	-	-	75
Metal traverse with gypsum fibre insert	-	-	-	-	90

**Construction**
**Installation steps**


### Nailable Plug



The Knauf Nailable Plug is a premium synthetic nailable dowel with galvanized quality screw for anchoring the perimeters of drywall systems. The permissible load in case of shear stress is 0.5 kN.

For fastening of U and C profiles as well as wood frame partitions, frames and sill plate timbers to the floor, wall and ceiling.

- K 6/35: U and C profiles on unplastered concrete / masonry
- K 6/50: U and C profiles on plastered concrete / masonry
- L 8/80: Timber battens up to 60 mm thick on unplastered concrete / masonry

#### Properties and added value

- Nailable plugs in quality Nylon
- Simply and fast push in installation
- Screw nail with cross slot head for loosening and readjustment
- Twist and torsion protection

#### Construction

##### Installation steps

Be careful to ensure that the reinforcement is not damaged.

1. Pre-drill the hole.
2. Clean the drill dust out of the drill hole.
3. Insert the dowel.
4. Insert the nailable plug and strike it with a hammer.
5. Adjust when necessary with a screwdriver.

#### Technical data

Table 98: Nailable Plug technical data

Technical data	Unit	Value
Permissible load $F_{per.}$ Shear stress	kN	0.5
Screw head diameter	mm	6
Length		
K 6/35	mm	35
K 6/50	mm	50
K 8/80	mm	80
Drill hole diameter		
K 6/35	mm	6
K 6/50	mm	6
K 8/80	mm	8
Drill hole depth		
K 6/35	mm	42
K 6/50	mm	57
K 8/80	mm	90
Minimum spacing from edge		
K 6/35 and K 6/50	mm	24
K 8/80	mm	40

Ceiling Steel Dowel



The Ceiling Steel Dowel is a dowel made of electro-galvanized steel, consisting of a tapered bolt and expansion clip. The Ceiling Steel Dowel is for use in concrete for redundant non-load bearing systems. The required concrete quality is somewhere between standard concrete (reinforced or non-reinforced) of strength class C12/15 and C50/60 acc. to DIN EN 206-1 or DIN 1045-2. It can also be used in static or quasi-static loading in cracked or non-cracked concrete.

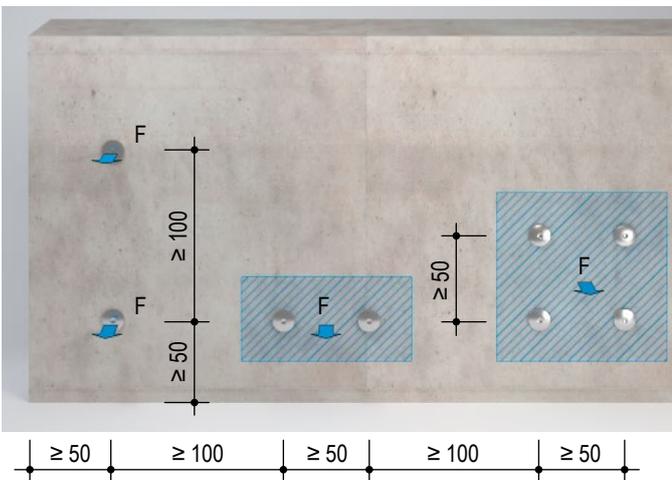
The Ceiling Steel Dowel is for use in anchoring non-load bearing drywall systems in concrete, e.g. lightweight subceilings and ceiling linings, metal stud partitions or ventilation and cable ducts. It is mainly used with the frame of suspended ceilings for attaching the suspenders in the basic ceiling.

Properties and added value

- Low drill hole depth
- Ideal shape for the best grip in concrete / reinforced concrete
- Spreader ring for secure fastening
- Easy to hammer down

Tests and certificates

Approval acc. to ETA-07/0049. Also permissible for fire resistant constructions.



Construction

Installation steps

Be careful to ensure that the reinforcement is not damaged.

1. Pre-drill with 6 mm drill hole diameter and 35 mm drill hole depth
2. Clean the drill dust out of the drill hole.
3. Insert the dowel through the component to be fixed and strike the dowel with a hammer or a setting tool.

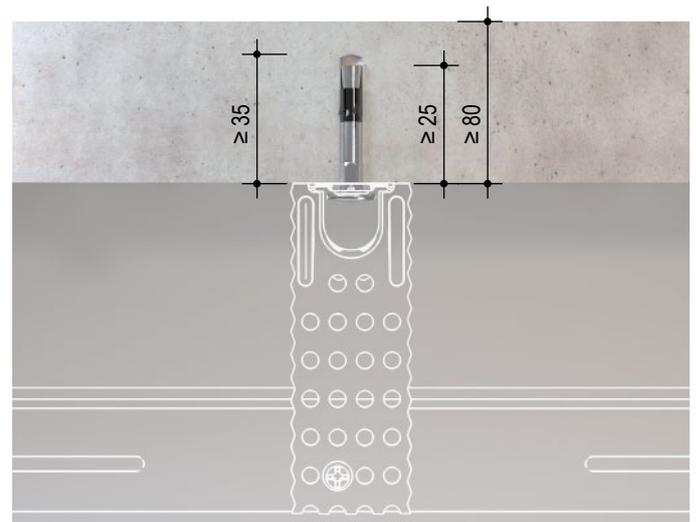
The dowel expands after insertion when a load is applied.

<b>Note</b>	In case of an aborted hole, the new drill hole must have a separation of minimum twice the depth of the aborted hole. The minimum clearances to the edges of concrete elements as well as the minimum axial spacings as specified in the drawing must be observed.
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Technical data

Table 99: Ceiling Steel Dowel technical data

Technical data	Unit	Value
Permissible load $F_{per}$ (for centric stress / shear stress / oblique stress)	kN	0.5
Usage up to fire resistance class (also for a fire in the plenum)	–	F90
Minimum constructional component thickness	mm	80
Minimum anchoring length (Thickness of the element to be anchored max. 5 mm)	mm	25
Minimum spacing from edge	mm	50
Drill hole diameter	mm	6
Drill hole depth	mm	≥ 35



### Ceiling steel dowel corrosion protection A4



The ceiling steel dowel corrosion protection A4 is a steel dowel with high level of corrosion protection for fastening of drywall systems in concrete, consisting of a tapered bolt and expansion clip. The Ceiling Steel Dowel corrosion protection A4 is for use in concrete for redundant non-load bearing systems. The Ceiling Steel Dowel corrosion protection type A4 is not suitable for areas with higher levels of chlorine, such as swimming pools. In this case, a dowel with the code HCR must be used. The required concrete quality is somewhere between standard concrete (reinforced or non-reinforced) of strength class C12/15 and C50/60 acc. to DIN EN 206-1 or DIN 1045-2. It can also be used under static or quasi-static loading in cracked or non-cracked concrete.

The Ceiling Steel Dowel corrosion protection A4 is for use in anchoring non-load bearing enhanced corrosion protection drywall systems in concrete, e.g. lightweight suspended ceilings and ceiling linings, metal stud partitions or ventilation and cable ducts. It is mainly used with the frame of suspended ceilings in damp and wet rooms for attaching the suspenders in the basic ceiling.

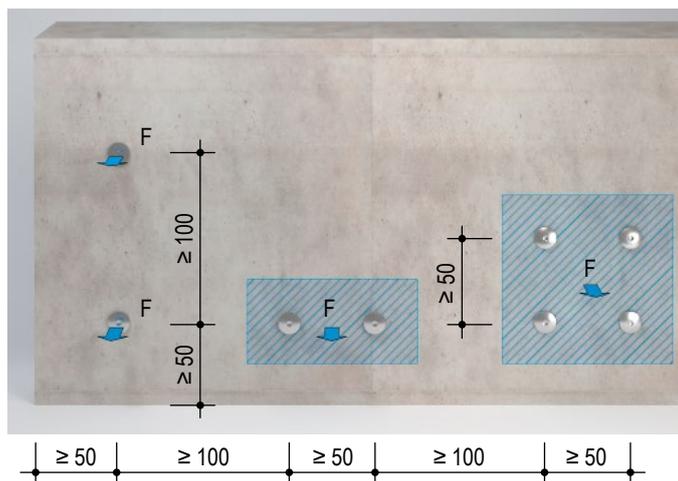
It is the recommended fastener for Drystar systems and also permissible for fire resistant constructions.

#### Properties and added value

- Spreader ring for secure fastening
- Ideal shape for the best grip in concrete / reinforced concrete
- Easy to hammer down

#### Tests and certificates

Approval acc. to ETA-07/0049. Also permissible for fire resistant constructions.



### Construction

#### Installation steps

Be careful to ensure that the reinforcement is not damaged.

1. Pre-drill with 6 mm drill hole diameter and 45 mm drill hole depth
2. Clean the drill dust out of the drill hole.
3. Insert the dowel through the component to be fixed and strike the dowel with a hammer or a setting tool.

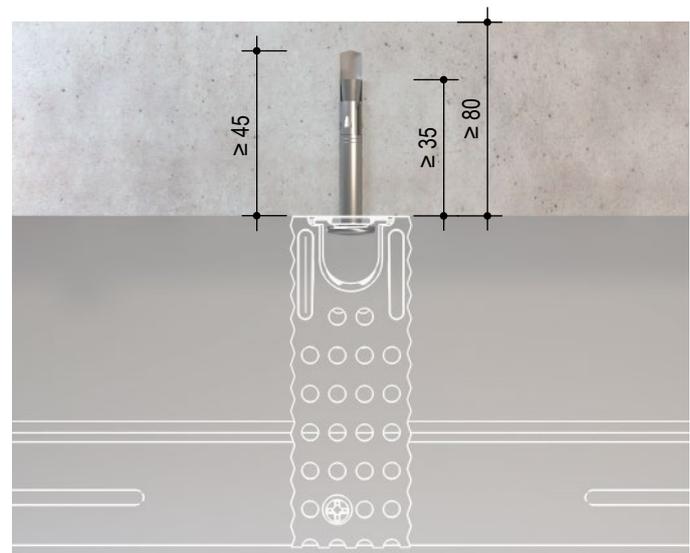
The dowel expands after insertion when a load is applied.

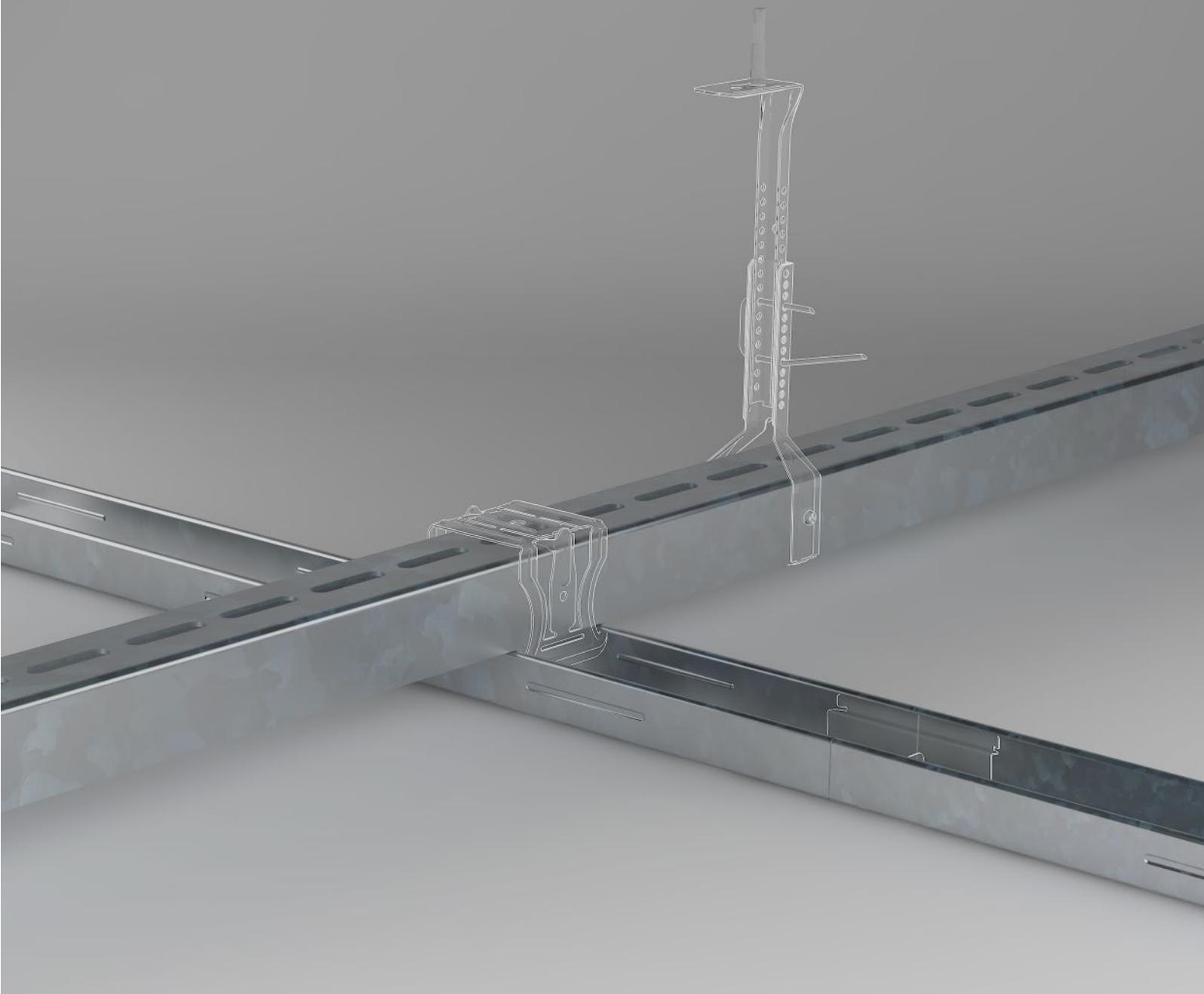
<b>Note</b>	In case of an aborted hole, the new drill hole must have a separation of minimum twice the depth of the aborted hole. The minimum clearances to the edges of concrete elements as well as the minimum axial spacings as specified in the drawing must be observed.
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#### Technical data

Table 100: Ceiling Steel Dowel corrosion protection A4 technical data

Technical data	Unit	Value
Permissible load $F_{per}$ (for centric stress / shear stress / oblique stress)	kN	0.5
Usage up to fire resistance class (also for a fire in the plenum)	–	90
Minimum constructional component thickness	mm	80
Minimum anchoring length (Thickness of the element to be anchored max. 5 mm)	mm	35
Minimum spacing from edge	mm	60
Drill hole diameter	mm	6
Drill hole depth	mm	≥ 45





## Profiles

CW studs

UW profiles

MW profiles

CD Channels

UD profiles

UA profiles

Curved profiles

Resilient Channels, Hat-Shaped Channels, Sinus

Special profiles

Edge trims and corner trims

Door lintel profile

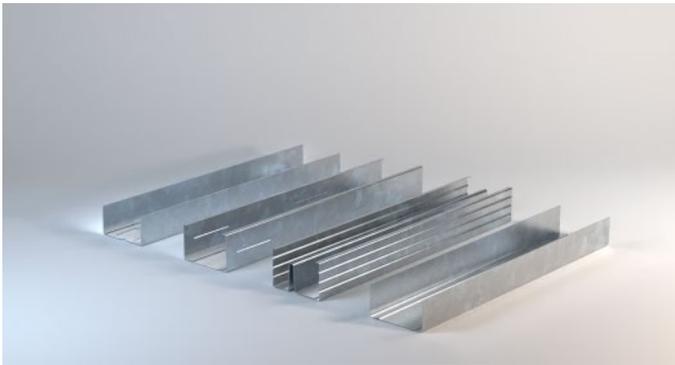
Façade profile

### Profiles for walls and ceilings

Profiles are required for partitions, fastening of walls and ceilings or suspended ceilings in drywalling. Metal stud framework consists of profiles of differing cross-sections, e.g. C Profiles, U Profiles, M Profiles or special profiles as well.

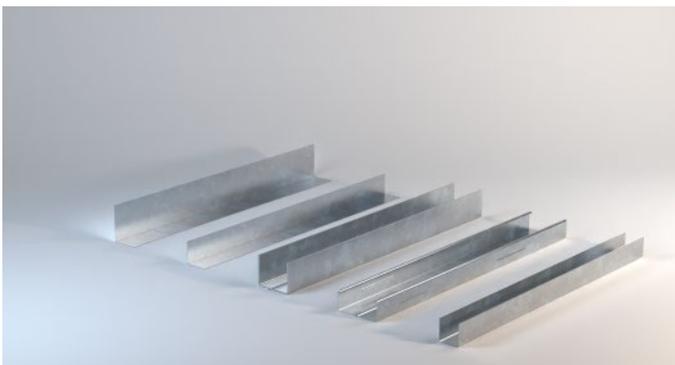
Profiles consisting of cold formed sheet metal are galvanized, and depending on the requirement have punched apertures for the routing of electrical cabling. The gauge for sheet metal profiles is in the range of 0.6 to 2.0 mm. In the load-bearing drywall systems, sheet metal thicknesses up to 3 mm are used. In case of non-load bearing drywall systems, the metal gauge of the profiles is 0.6 mm.

#### Wall profiles



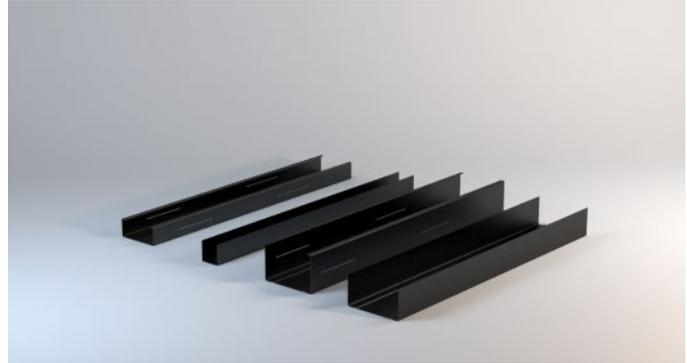
Profiles for walls are divided into stud and perimeter profiles. Wall profiles are available in differing lap widths. The lap width has an influence on the sound insulation properties of the walls as well as the loadbearing capacity and the permissible partition heights. The perimeter profiles are responsible for the connection between the flanking components and the wall, and together with the anchoring, ensure the load transfer from the drywall partition into the wall, ceiling and floor. Perimeter runners are available in a range of flange widths.

#### Ceiling profiles



Ceiling profiles used as furring and carrying channels of ceiling linings or suspended ceilings, differ from wall profiles as they are subjected to other loads. Ceiling profiles must guarantee a secure connection with the suspenders

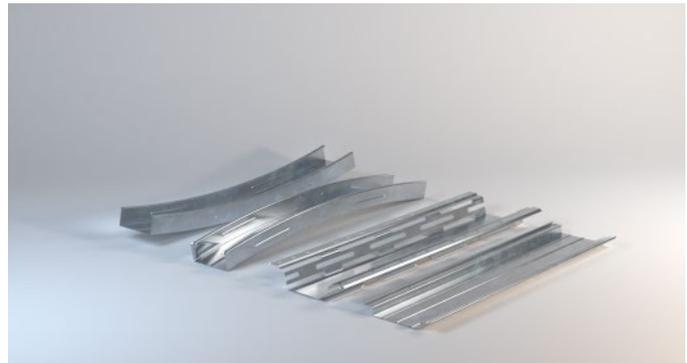
### Profiles for damp and wet rooms



Corrosion protective treatment is essential in damp and wet rooms. The load-bearing metal grids for walls and ceilings in private and commercial rooms are subjected to moisture and often to corrosive impurities in the air, e.g. due to salts and chlorides.

Profiles and the corresponding parts for fastening and installation with its black corrosion proofing coating offers the highest level of protection and a long service life.

#### Special profiles



Special profiles are available for special applications, e.g. lightweight steel construction systems or special constructions. Profiles with U-shaped cross-section and a metal gauge of 2 mm is used in areas where higher loadbearing capacities are necessary, for example to reinforce door and wall openings. Angle profiles are used for connections, e.g. ceiling connections to walls

#### H punches and web cut-outs for cable penetrations



The H punches are provided in CW studs in the factory. They can be used to safely and easily route electrical or installation cables. Cut-outs in profiles are permissible on-site. Observe the system data sheet of the respective Knauf system for this purpose.

### Overview table for profiles

Table 101: Profile overview

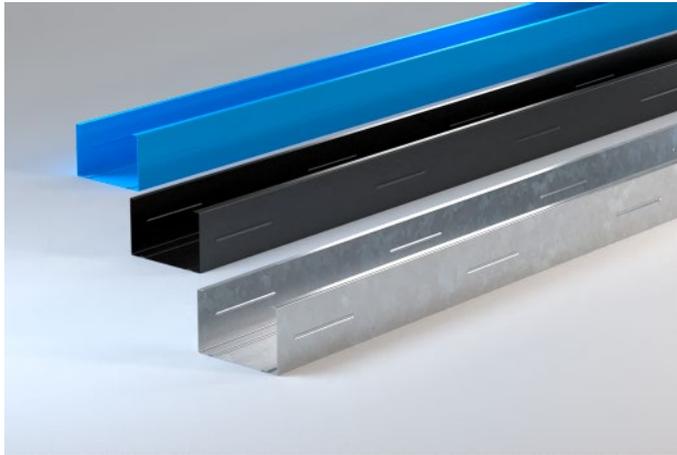
Product	Partition systems				Ceiling systems		Special systems
	Metal stud partitions	Wood frame partitions	Furring and linings	Installation Shaft Walls	Board ceilings	Acoustical ceilings	
CW Studs	●	–	●	●	○	○	●
UW Runners	●	–	●	●	○	○	●
MW profiles	●	–	●	–	–	–	●
CD Channels	–	–	○	–	●	●	–
UD profiles	–	–	–	–	●	●	–
UA profiles	●	–	●	○	●	○	●
<b>Curved profiles</b>							
CD Channel curved	–	–	–	–	●	●	–
UA Profile curved	–	–	–	–	●	●	–
<b>Special profiles</b>							
Resilient Channels	–	○	–	–	●	○	–
Hat-Shaped Channel	○	–	–	–	●	○	–
Sinus – Flexible U connection profile	●	–	○	–	–	–	–
Heavy load profile C50, C75 and C100	●	–	–	–	–	–	–
Flex Profile	●	●	●	●	–	–	–
L-angle	●	–	–	–	–	–	–
Angle Profile	–	–	–	●	●	–	–
U profile	●	–	–	–	–	–	–
<b>Edge trims and corner trims</b>							
Edge Trim	●	●	●	●	–	–	–
Alu Corner Trim	●	●	●	●	–	–	–
Corner Trims	●	●	●	●	–	–	–
Corner Trim Dallas 90°	●	●	●	●	–	–	–
Corner Trim Vegas 90°	●	●	●	●	–	–	–
Corner Trim Göppinger 90°	●	●	●	●	–	–	–
<b>Door lintel profile</b>							
Door lintel profile CW/UA 50	●	–	●	–	–	–	●
Door lintel profile CW/UA 75	●	–	●	–	–	–	●
Door lintel profile CW/UA 100	●	–	●	–	–	–	●

● Application

○ Possible application

– Not used

### CW studs, galvanized / C3 / C5M



#### CW stud, the profile for wall and free-spanning ceilings in drywalling

The CW stud is a cold-formed sheet metal profile with a C-shaped cross-section acc. to EN 14195 for use in drywall constructions. H shaped punched slots are provided for routing of cables or installations. CW studs are also available with coating of corrosion protection C3 or enhanced corrosion protection C5M.

#### Field of application

The CW stud is used as a stud profile for partitions as well as a furring channel for free-spanning ceilings. Use is possible both as a single profile or in case of enhanced structural demands as a double profile as well (two CW profiles screwed together on their respective webs). Coated CW studs C3 or C5M are to be used in case of increased demands on the corrosion protection in damp and wet rooms.

#### Properties and added value

- Easy to install
- Dimensionally stable
- Corrosion resistant, alternatives with a high (C3) or enhanced (C5M) protective treatment

#### Tests and certificates

In compliance with EN 14195, the product is subject to initial type testing and continuous factory production control and bears the CE marking. The product is compliant with all demands of the DIN 18182-1.

#### Construction

##### Stud profile

1. Cut the profiles to the required length with a metal shears.
2. Insert the CW studs into the UW runners.
3. Align the CW studs at the desired axial spacing.
4. Depending on the system, a mechanical constructional connection (e.g. using a crimp connection or screws) with the UW runners may be necessary.

CW studs protrude at least 30 mm into the UW runner without a deflection head.

##### Furring channel

1. Cut the profiles to the required length with a metal shears.
2. Insert the CW studs into the perimeter runners.
3. Align the CW studs at the desired axial spacing.
4. Depending on the system, a mechanical-constructural connection with the perimeter runner (e.g. using a crimp connection or screws) may be necessary.

#### Technical data

Table 102: CW stud technical data

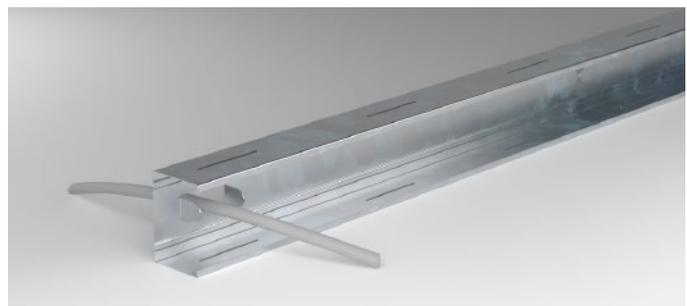
Technical data	Value	Standard
Reaction to fire	A1	EN 13501
Corrosion protection coating	Z100	EN 10346
	C3, black	EN ISO 12944
	C5M, blue	EN ISO 12944

#### H punches and web cut-outs for cable penetrations

The H punches are provided in CW studs in the factory. They can be used to safely and easily route electrical or installation cables.

The opening dimensions of a H punch has a width/height (w/h) = 20 mm/50 mm at spacings of 500 mm.

Cut-outs in profiles are permissible on-site. Observe the system data sheet of the respective Knauf system for this purpose.

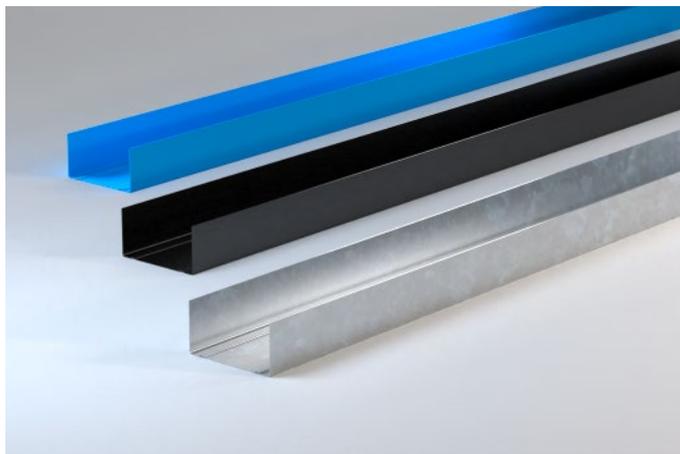


Dimensions of the CW studs

CW stud	Length mm	Flange width mm	Web height mm	Metal gauge mm	Geometrical moment of inertia		Yield strength N/mm <sup>2</sup>	Scope of delivery	
					I <sub>y</sub> mm <sup>4</sup>	I <sub>z</sub> mm <sup>4</sup>		Pieces / small bundle	Pieces / large bundle
CW stud 50/50/06	2600 – 4500	50	50	0.6	43100	30700	240	8	128
CW stud 70/50/06	2750 – 3500	70	50	0.6	88400	30961	240	8	96
CW stud 75/50/06	2600 – 5000	75	50	0.6	106800	35400	240	8	96
CW stud 100/50/06	2600 – 6000	100	50	0.6	204900	38900	240	8	64
CW stud 125/50/06	4250	125	50	0.6	342100	41700	240	4	48
CW stud 150/50/06	4000 / 5500	150	50	0.6	523000	44000	240	4	48
CW stud 50/50/06 C3	2600 – 4000	50	50	0.6	43100	30700	240	8	128
CW stud 75/50/06 C3	2600 – 4000	75	50	0.6	106800	35400	240	8	96
CW stud 100/50/06 C3	2600 – 4000	100	50	0.6	204900	38900	240	8	64
CW stud 125/50/06 C3	Customized length	125	50	0.6	342100	41700	240	8	64
CW stud 150/50/06 C3	Customized length	150	50	0.6	523000	44000	240	4	48
CW stud 50/50/06 C5M	2600 – 4000	50	50	0.6	43100	30700	240	8	128
CW stud 75/50/06 C5M	2600 – 4000	75	50	0.6	106800	35400	240	8	96
CW stud 100/50/06 C5M	3000 – 4000	100	50	0.6	204900	38900	240	8	64

Customized lengths on request

### UW Runner, galvanized / C3 / C5M



#### UW Runner, the perimeter profile for wall and free-spanning ceilings in drywalling

The UW runner is a cold-formed sheet metal profile with a U-shaped cross-section acc. to EN 14195 for use in drywall constructions.

UW runners are also available with coating of corrosion protection C3 or enhanced corrosion protection C5M.

#### Field of application

The UW runner is used as a perimeter runner for walls and free-spanning ceilings. Coated UW runners C3 or C5M are to be used in case of increased demands on the corrosion protection in damp and wet rooms.

#### Properties and added value

- Easy to install
- Dimensionally stable
- Corrosion resistant, alternatives with a high (C3) or enhanced (C5M) protective treatment

#### Tests and certificates

In compliance with EN 14195, the product is subject to initial type testing and continuous factory production control and bears the CE marking. The product is compliant with all demands of the DIN 18182-1.

#### Construction

##### Stud profile

1. Cut the profiles to the required length with a metal shears.
2. Anchor the profile to the floor and the ceiling using suitable anchors.
3. Insert the CW studs.
4. Depending on the system, a mechanical-constructural connection with the stud profiles (e.g. using a crimp connection or screws) may be necessary.

##### Perimeter runners for free-spanning ceilings

1. Cut the profiles to the required length with a metal shears.
2. Attach the profile to the wall using suitable fasteners.
3. Insert the CW studs.
4. Depending on the system, a mechanical-constructural connection with the perimeter runner (e.g. using a crimp connection or screws) is necessary.

#### Technical data

Table 103: UW runner technical data

Technical data	Value	Standard
Reaction to fire	A1	EN 13501
Corrosion protection coating	Z100	EN 10346
	C3, black	EN ISO 12944
	C5M, blue	EN ISO 12944

Dimensions of the UW profile (runner)

UW runner	Length mm	Flange width mm	Web height mm	Metal gauge mm	Geometrical mo- ment of inertia		Yield strength N/mm <sup>2</sup>	Scope of delivery	
					I <sub>y</sub> mm <sup>4</sup>	I <sub>z</sub> mm <sup>4</sup>		Pieces / small bundle	Pieces / large bundle
UW runner 50/40/06	4000	50	40	0.6	35100	13500	240	8	160
UW runner 70/40/06	4000	70	40	0.6	73100	14900	240	8	120
UW runner 75/40/06	4000	75	40	0.6	86500	15300	240	8	120
UW runner 100/40/06	4000	100	40	0.6	166800	16700	240	8	80
UW runner 125/40/06	4000	125	40	0.6	285200	18100	240	4	60
UW runner 150/40/06	4000	150	40	0.6	438800	18900	240	4	60
UW runner 50/70/07	4000	50	70	0.7	65850	69900	240	8	–
UW runner 75/70/07	4000	75	70	0.7	157600	80200	240	8	–
UW runner 100/70/07	4000	100	70	0.7	295900	88300	240	8	–
UW runner 50/40/06 C3	4000	50	40	0.6	35100	13500	240	8	160
UW runner 75/40/06 C3	4000	75	40	0.6	86500	15300	240	8	120
UW runner 100/40/06 C3	4000	100	40	0.6	166800	16700	240	8	80
UW runner 125/40/06 C3	4000	125	40	0.6	285200	18100	240	4	60
UW runner 150/40/06 C3	4000	150	40	0.6	438800	18900	240	4	60
UW runner 50/40/06 C5M	4000	50	40	0.6	35100	13500	240	8	160
UW runner 75/40/06 C5M	4000	75	40	0.6	86500	15300	240	8	120
UW runner 100/40/06 CM5	4000	100	40	0.6	166800	16700	240	8	80

Customized lengths on request

### MW profiles, galvanized



#### MW profile, the sound insulation profile for walls in drywalling

The MW profile is a cold-formed sheet metal profile with a M-shaped cross-section acc. to EN 14195 for use in drywall constructions. A special web (lap) design contributes significantly to the improvement of the sound insulation properties of the wall or ceiling.

#### Field of application

The MW profile is used as a stud profile for partitions as well as a ceiling profile for sound insulation decoupling in case of wood joist ceilings.

#### Properties and added value

- Easy to install
- Dimensionally stable
- Corrosion resistant
- Sound isolating

#### Dimensions of the MW Profile

MW Profile	Length mm	Flange width mm	Web height mm	Metal gauge mm	Geometrical moment of inertia		Yield strength N/mm <sup>2</sup>	Scope of delivery	
					I <sub>y</sub> mm <sup>4</sup>	I <sub>z</sub> mm <sup>4</sup>		Pieces / small bundle	Pieces / large bundle
MW Profile 75/50/06	3000 / 4000	75	50	0.6	108800	38700	240	8	96
MW Profile 100/50/06	3000 / 4000	100	50	0.6	208200	42900	240	8	64

Customized lengths on request

#### Tests and certificates

In compliance with EN 14195, the product is subject to initial type testing and continuous factory production control and bears the CE marking. The product is compliant with all demands of the DIN 18182-1.

#### Construction

##### Stud profile

1. Cut the profiles to the required length with a metal shears.
2. Insert the MW profile into the perimeter runner.
3. Depending on the system, a mechanical-constructural connection with the perimeter runner (e.g. using a crimp connection or screws) may be necessary.

##### Ceiling profile

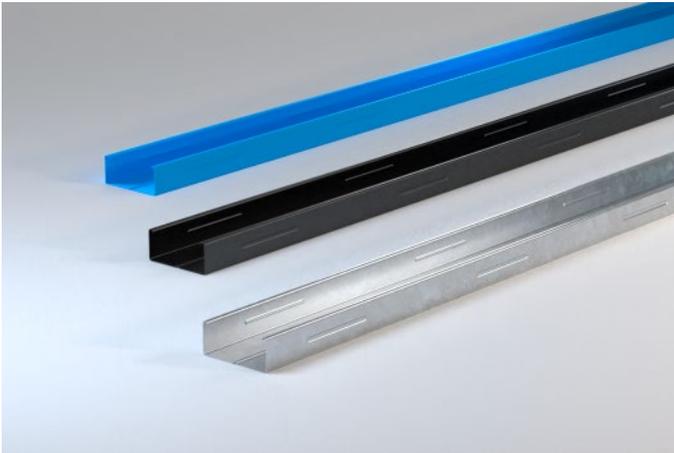
1. Cut the profiles to the required length with a metal shears.
2. Fasten the profiles on the long section of the flange to the wooden joists with a Multi-Purpose Screw FN 4.3 x 35 mm.
3. Screw on the respective gypsum board from below using suitable screws.

#### Technical data

Table 104: MW profile technical data

Technical data	Value	Standard
Reaction to fire	A1	EN 13501
Corrosion protection coating	Z100	EN 10346

CD Channels, galvanized or C3 or C5M



**CD Channel, the profile for ceilings and wall linings in drywalling**

The CD Channel is a cold-formed sheet metal profile with a C-shaped cross-section acc. to EN 14195 for use in drywall constructions. CD Channels are also available with coating of corrosion protection C3 or enhanced corrosion protection C5M.

**Field of application**

The CD Channel is used as a carrying and furring channel for suspended ceilings or as stud profiles for wall lining or furring. Protective coated CD Channels C3 or C5M are to be used in case of increased demands on the corrosion protection in damp and wet rooms.

**Properties and added value**

- Easy to install
- Dimensionally stable
- Corrosion resistant, alternatives with a high (C3) or enhanced (C5M) protective treatment

**Dimensions of the CD Channels**

CD Channel	Length mm	Flange width mm	Web height mm	Metal gauge mm	Geometrical moment of inertia		Yield strength N/mm <sup>2</sup>	Scope of delivery	
					I <sub>y</sub> mm <sup>4</sup>	I <sub>z</sub> mm <sup>4</sup>		Pieces / small bundle	Pieces / large bundle
CD Channel 60/27/06	1190 – 4000	60	27	0.6	42400	7134	240	12	180
CD Channel 60/27/06 C3	4000	60	27	0.6	42400	7134	240	12	180
CD Channel 60/27/06 C5M	4000	60	27	0.6	42400	7134	240	12	180

Customized lengths on request

**Tests and certificates**

In compliance with EN 14195, the product is subject to initial type testing and continuous factory production control and bears the CE marking. The product is compliant with all demands of the DIN 18182-1.

**Construction**

**As a carrying channel**

1. Cut the profiles to the required length with a metal shears.
2. Fasten the profiles to the ceiling using suitable suspenders for the respective system.

**As a furring channel**

1. Cut the profiles to the required length with a metal shears.
2. Fasten the profiles using suitable profile connectors (e.g. Knauf Intersection Connectors) on the carrying channel and fit them into the perimeter runners.

**As a wall profile (furring)**

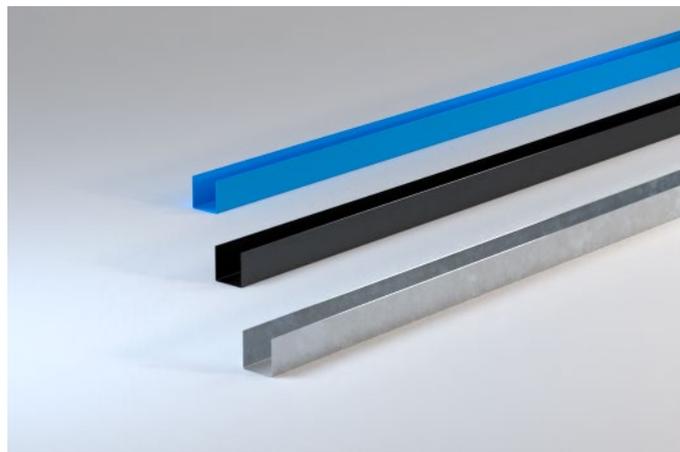
1. Insert the profiles into the UD runners on the floor and ceiling.
2. Attach the profile with Universal Brackets at the prescribed spacing to the wall using suitable fasteners.

**Technical data**

Table 105: CD Channel technical data

Technical data	Value	Standard
Reaction to fire	A1	EN 13501
Corrosion protection coating	Z100	EN 10346
	C3, black	EN ISO 12944
	C5M, blue	EN ISO 12944

UD runners, galvanized or C3 or C5M



**UD runner, the perimeter profile for ceilings and wall linings in drywalling**

The UD runner is a cold-formed sheet metal profile with a U-shaped cross-section acc. to EN 14195 for use in drywall constructions. The UD runner is also available with coating of corrosion protection C3 or enhanced corrosion protection C5M.

**Field of application**

The UD runner is used as a perimeter runner with suspended ceilings and with wall lining / furring. Protective coated UD runners C3 or C5M are to be used in case of increased demands on the corrosion protection in damp and wet rooms.

**Properties and added value**

- Easy to install
- Dimensionally stable
- Corrosion resistant, alternatives with a high (C3) or enhanced (C5M) protective treatment

**Dimensions of the UD profiles**

UD Runner	Length mm	Flange width mm	Web height mm	Metal gauge mm	Geometrical moment of inertia		Yield strength N/mm <sup>2</sup>	Scope of delivery	
					I <sub>y</sub> mm <sup>4</sup>	I <sub>z</sub> mm <sup>4</sup>		Pieces / small bundle	Pieces / large bundle
UD profile 28/27/06	3000	28	27	0.6	7041	3728	240	16	448
UD profile 28/27/48/06	3000	28	27/48	0.6	6710	15400	240	16	320
UD profile 28/27/06 C3	3000	28	27	0.6	7041	3728	240	16	448
UD profile 28/27/06 C5M	3000	28	27	0.6	7041	3728	240	16	448

Customized lengths on request

**Tests and certificates**

In compliance with EN 14195, the product is subject to initial type testing and continuous factory production control and bears the CE marking. The product is compliant with all demands of the DIN 18182-1.

**Construction**

**With suspended ceilings**

1. Cut the profiles to the required length with a metal shears.
2. Attach the profile to the wall using suitable fasteners.
3. Insert the furring channel.

**Acoustical wall linings / furring**

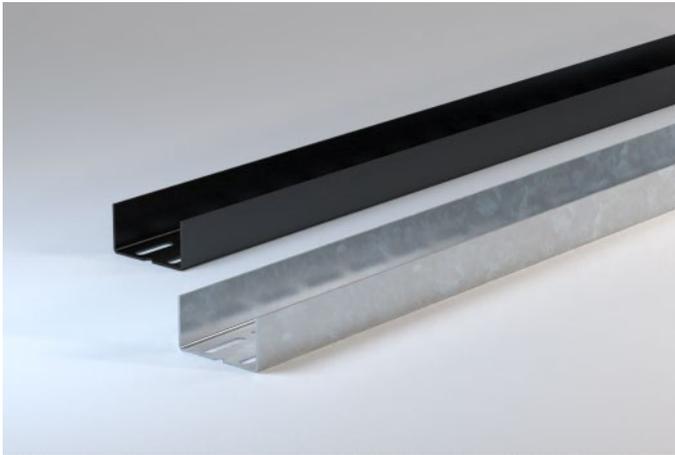
1. Cut the profiles to the required length with a metal shears.
2. Anchor the profile to the floor and the ceiling using suitable anchors.
3. Insert the CD Channels.
4. Depending on the system, a mechanical-constructural connection with the perimeter runner (e.g. using a crimp connection or screws) may be necessary.

**Technical data**

Table 106: UD runners technical data

Technical data	Value	Standard
Galvanized profile		
Reaction to fire	A1	EN 13501
Corrosion protection coating	Z100	EN 10346
Profile protective coating		
Reaction to fire C3	A1	EN 13501
Corrosion protection coating	C3, black	EN ISO 12944
Reaction to fire C5M	A2-s1,d0	EN 13501
Corrosion protection coating	C5M, blue	EN ISO 12944

UA profiles, galvanized or C3-C5M



**UA profile, the versatile profile for walls, ceilings and room-in-room systems in drywalling**

The UA profile is a cold-formed sheet metal profile with a U-shaped cross-section acc. to EN 14195 for use in drywall constructions. It is also available coated with enhanced corrosion protection C3-C5M.

**Field of application**

The 2 mm thick UA profile is used as a stud profile for partitions, as a carrying channel for suspended ceilings or as a circumferential perimeter runner in case of room-in-room systems. It can also be used as a furring channel for free-spanning ceilings as well as for installing heavy doors. Protective coated UA profiles C3-C5M are to be used in case of increased demands on the corrosion protection in damp and wet rooms.

**Properties and added value**

- Easy to install
- Dimensionally stable
- Corrosion resistant, alternatives with a high (C3-C5M) protective treatment

**Tests and certificates**

In compliance with EN 14195, the product is subject to initial type testing and continuous factory production control and bears the CE marking. The product is compliant with all demands of the DIN 18182-1.

**Construction**

1. Cut the profiles to the required length with a sheet metal nibbler or an electrically operated tool that does not create swarf.
2. Insert the UA profile into the perimeter runner.
3. Align the UA profile at the desired axial spacing.
4. UA profiles always applied at the top and bottom with brackets (e.g. UA Connection Angle) and carriage bolts.
5. Attachment to the basic floor / ceiling is undertaken using suitable anchors.

**Technical data**

Table 107: UA profiles technical data

Technical data	Value	Standard
Galvanized profile		
Reaction to fire	A1	EN 13501
Corrosion protection coating	Z275	EN 10346
Coated profile C3-C5M (black coating)		
Reaction to fire	A2-s1,d0	EN 13501
Corrosion protection coating	C3-C5M	EN ISO 12944

**Dimensions of the UA profiles**

UA profile	Length mm	Flange width mm	Web height mm	Metal gauge mm	Geometrical moment of inertia		Yield strength N/mm <sup>2</sup>	Scope of delivery	
					I <sub>y</sub> mm <sup>4</sup>	I <sub>z</sub> mm <sup>4</sup>		Pieces / small bundle	Pieces / large bundle
UA profile 50/40/2	2600 – 5000	50	40	2	97685	42000	250	6	90
UA profile 70/40/2	2750 – 3500	70	40	2	217800	46500	250	4	100
UA profile 75/40/2	2600 – 5000	75	40	2	251074	48200	250	4	100
UA profile 100/40/2	2600 – 5000	100	40	2	494985	52600	250	4	60
UA profile 125/40/2	3000 – 6000	125	40	2	844934	55900	250	2	60
UA profile 150/40/2	3000 – 6000	125	40	2	1316435	58500	250	2	40
UA profile 50/40/2 without oblong hole	Custom length	50	40	2	97685	42000	250	6	90
UA profile 75/40/2 without oblong hole	Custom length	75	40	2	251074	48200	250	4	100
UA profile 100/40/2 without oblong hole	Custom length	100	40	2	494985	52600	250	4	60
UA profile 125/40/2 without oblong hole	Custom length	125	40	2	844934	55900	250	2	60
UA profile 150/40/2 without oblong hole	Custom length	125	40	2	1316435	58500	250	2	40
UA profile 50/40/2 C3-C5M	2600 – 6000	50	40	2	97685	42000	250	6	90
UA profile 75/40/2 C3-C5M	2600 – 6000	75	40	2	251074	46500	250	4	100
UA profile 100/40/2 C3-C5M	2600 – 6000	100	40	2	494985	48200	250	4	60

Customized lengths on request

CD Channels curved, galvanized



**CD Channels, the profile for Designed Ceilings**

The curved CD Channel is a cold-formed sheet metal profile with a C-shaped cross-section acc. to EN 14195 for use in curved or arched design ceiling constructions.

**Field of application**

The curved CD Channel (channel) is used as a carrying or furring channel for Designed Ceilings, domes or curved ceiling elements. Depending on the desired curvature, either concave or convex CD Channels are used.

**Dimensions of the curved CD Channels**

CD Channel	Bending radius	Length	Flange width	Web height	Metal gauge	Scope of delivery	
	mm					mm	Pieces / small bundle
CD Channel 60/27/06 convex curvature	1000 – 2000	2600 / 3100 / 4000	60	27	0.6	Depending on order / project	
	0001 – 3000	2600 / 3100 / 4000					
	> 3000	2600 / 3100 / 4000					
CD Channel 60/27/06 concave curvature	500 – 999	2600 / 3100 / 4000	60	27	0.6	Depending on order / project	
	1000 – 2000	2600 / 3100 / 4000					
	2001 – 3000	2600 / 3100 / 4000					
	> 3000	2600 / 3100 / 4000					

Customized lengths on request

**Properties and added value**

- Easy to install
- Dimensionally stable
- Corrosion resistant

**Tests and certificates**

In compliance with EN 14195, the product is subject to initial type testing and continuous factory production control and bears the CE marking. The product is compliant with all demands of the DIN 18182-1.

**Construction**

1. Cut the profiles to the required length with a metal shears.
2. Fasten the profiles to the ceiling using suitable suspenders for the respective system.

**Technical data**

Table 108: CD Channel technical data

Technical data	Value	Standard
Reaction to fire	A1	EN 13501
Material	Sheet metal	EN 10346
Corrosion protection coating	Z100	EN 10346

### UA profile curved, galvanized



#### UA profile, the reinforced profile for Designed Ceilings

The curved UA profile is a cold-formed sheet metal profile with a U-shaped cross-section acc. to EN 14195 for use in curved or arched design ceiling constructions.

#### Field of application

The curved UA profile is used as a reinforced carrying or furring channel for Designed Ceilings, domes or curved ceiling elements. Depending on the desired curvature, either concave or convex UA profiles are used.

#### Dimensions of the curved UA profiles

UA profile	Bending radius mm	Length mm	Flange width mm	Web height mm	Metal gauge mm	Scope of delivery	
						Pieces / small bundle	Pieces / large bundle
UA profile 50/40/02 convex curvature	1000 – 2000	2600 – 5000	50	40	2	Depending on order / project	
	2001 – 3000						
	> 3000						
UA profile 75/40/02 convex curvature	1000 – 2000	2600 – 5000	75	40	2	Depending on order / project	
	2001 – 3000						
	> 3000						
UA profile 100/40/02 convex curvature	1000 – 2000	2600 – 5000	100	40	2	Depending on order / project	
	2001 – 3000						
	> 3000						
UA profile 50/40/02 concave curvature	500 – 999	2600 – 5000	50	40	2	Depending on order / project	
	1000 – 2000						
	2001 – 3000						
	> 3000						
UA profile 75/40/02 concave curvature	500 – 999	2600 – 5000	75	40	2	Depending on order / project	
	1000 – 2000						
	2001 – 3000						
	> 3000						
UA profile 100/40/02 concave curvature	500 – 999	2600 – 5000	100	40	2	Depending on order / project	
	1000 – 2000						
	2001 – 3000						
	> 3000						

Customized lengths on request

#### Properties and added value

- Easy to install
- Dimensionally stable
- Corrosion resistant

#### Tests and certificates

In compliance with EN 14195, the product is subject to initial type testing and continuous factory production control and bears the CE marking. The product is compliant with all demands of the DIN 18182-1.

#### Construction

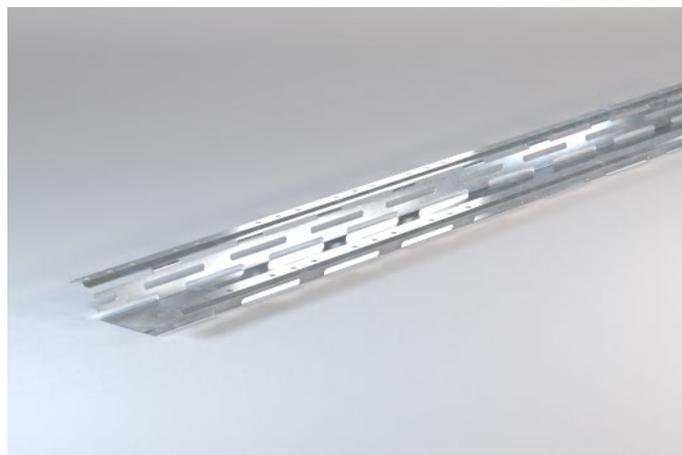
1. Cut the profiles to the required length with a metal shears.
2. Fasten the profiles to the ceiling using suitable suspenders for the respective system.

#### Technical data

Table 109: UA profiles technical data

Technical data	Value	Standard
Reaction to fire	A1	EN 13501
Material	Sheet metal	EN 10346
Corrosion protection coating	Z275	EN 10346

Resilient Channel 60/27/06, galvanized



**The sound insulation profile for ceilings**

The Resilient Channel is a galvanized sheet metal profile, which exhibits the required spring effect ideal for sound insulation resulting from the punched holes in the flange area and that is especially space-saving due to the low installation height.

**Field of application**

The Resilient Channels are used primarily with wood joist ceilings to improve the sound insulation particularly when only a low installation height is available.

**Dimensions of the Resilient Channel 60/27/06**

Profile	Length	Total width	Lap width	Profile height	Scope of delivery	
	mm	mm	mm	mm	Pieces / small bundle	Pieces / large bundle
Resilient Channel 60/27/06	4000	124	60	24	10	360

**Properties and added value**

- Space-saving
- Easy and fast installation
- Actively contributes to the sound insulation

**Tests and certificates**

In compliance with EN 14195, the product is subject to initial type testing and continuous factory production control and bears the CE marking. The product is compliant with all demands of the DIN 18182-1.

**Construction**

1. Cut the Resilient Channel to fit with a metal shears.
2. Attach the Resilient Channels to the ceiling using suitable fasteners.

**Technical data**

Table 110: Resilient Channel 60/27/06 technical data

Technical data	Value	Standard
Reaction to fire	A1	EN 13501
Material	Sheet metal	EN 10346
Corrosion protection coating	Z100	EN 10346

System data sheet [Knauf Wood Joist Ceiling Systems D15.de](https://www.knauf.com/wood-joist-ceiling-systems-d15-de)

**Note** The Resilient Channel is suspended on the screw heads. For optimum effectiveness install the Resilient Channel with about 1 mm spacing. For this purpose, unscrew the screws by about half a turn after they have been screwed in flush, to ensure that the Resilient Channel is suspended by the screw heads.

**Hat-Shaped Channel 98/15/06, galvanized**

**The special ceiling profile for particularly low installation heights**

The Hat-Shaped Channel is a sheet metal profile that facilitates particularly low installation heights due to its slim construction design.

**Field of application**

The Hat-Shaped Channel is used as a mounting profile under wood joists and solid ceilings in case of minimum installation height requirements.

**Dimensions of the Hat-Shaped Channel 98/15/06**

Profile	Length	Total width	Lap width	Metal gauge	Scope of delivery	
	mm	mm	mm	mm	Pieces / small bundle	Pieces / large bundle
Hat-Shaped Channel 98/15/06	4000	98	15	0.6	10	360

**Properties and added value**

- Low structure height
- Easy and fast installation

**Tests and certificates**

In compliance with EN 14195, the product is subject to initial type testing and continuous factory production control and bears the CE marking. The product is compliant with all demands of the DIN 18182-1.

**Construction**

1. Cut the Hat-Shaped Channel to fit with a metal shears.
2. Attach the Hat-Shaped Channel to the ceiling using suitable fasteners.

**Technical data**

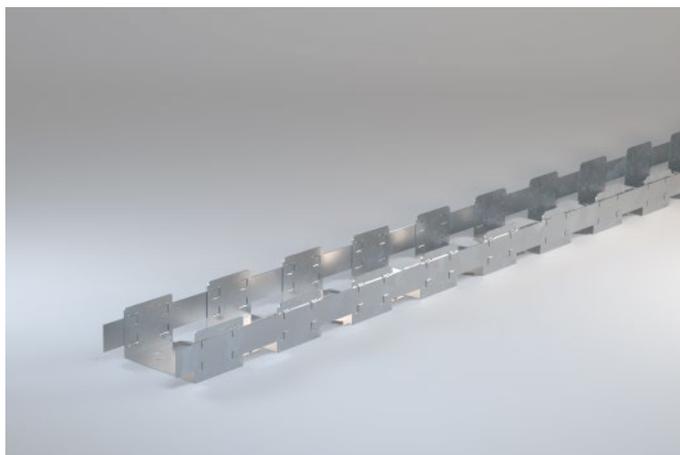
Table 111: Hat-Shaped Channel 98/15/06 technical data

Technical data	Value	Standard
Reaction to fire	A1	EN 13501
Material	Sheet metal	EN 10346
Corrosion protection coating	Z100	EN 10346



System data sheet [Knauf Wood Joist Ceiling Systems D15.de](#)  
System data sheet [Knauf Board Ceilings D11.de](#)

### Sinus, galvanized



#### The flexible perimeter runner for curved partitions

The Sinus profile is a flexible profile made of sheet metal with a U shaped cross-section for application as a perimeter runner with curved partitions.

#### Field of application

The Sinus profile is used as a flexible U perimeter runner on the floor and ceiling for creating circular partitions. The smallest radius possible is 125 mm to 250 mm, depending on the profile width.

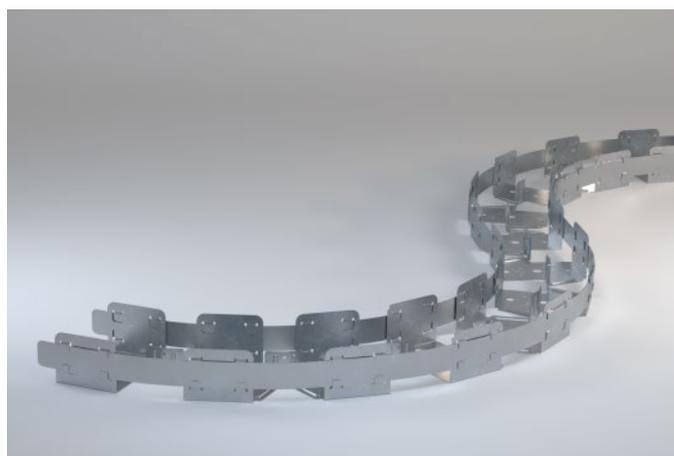
#### Properties and added value

- Highly flexible
- Can be fixed in place
- Easy and fast installation

#### Construction

1. Draw the desired radius on the floor.
2. Bend up the tabs on the Sinus profile. This will allow the Sinus profile to be moved and the required curvature radius can be set.
3. Fix the Sinus profile in place by crimping both sides of the circumferential strip.
4. Attach the Sinus profile to the floor using suitable anchors.
5. Repeat the same steps for the ceiling.
6. Insert the vertical stud profiles into the Sinus profiles and crimp fasten them to one another.

#### Application examples



#### Technical data

Table 112: Sinus technical data

Technical data	Value	Standard
Reaction to fire	A1	EN 13501
Material	Sheet metal	EN 10346
Corrosion protection coating	Z100	EN 10346



System data sheet [Knauf Metal Stud Partitions W11.de](http://KnaufMetalStudPartitionsW11.de)  
 Pamphlet [Knauf Sinus for fantastic curves Tro42.de](http://KnaufSinusforfantasticcurvesTro42.de) (German)  
 Technical brochure [Knauf Interior Design Tro145.de](http://KnaufInteriorDesignTro145.de)

#### Dimensions of the Sinus

Profile	Length	Web height	Flange width	Metal gauge	Smallest possible radius	Scope of delivery	
	mm	mm	mm	mm		Pieces / small bundle	Pieces / large bundle
Sinus 50 flexible U connection profile	1900	50	40	0.6	125	2	280
Sinus 75 flexible U connection profile	1900	75	40	0.6	175	2	196
Sinus 100 flexible U connection profile	1900	100	40	0.6	250	2	154

### Heavy load profile, galvanized



#### The profile for fast and safe door installation

Heavy loads such as door leaves in metal stud partitions can be easily installed using the heavy load profile. The certified heavy load profile is supplied with adapted base and top bracket as well as the necessary fasteners and anchors, making installation simple and cost-effective. The door substructure can be easily installed thanks to the opening of the heavy load profile on one side. The dimensions are matched to the profile size so that the cladding of the partition can be directly screw fastened onto the profile. The insulation material can be installed efficiently up to the front edge.

#### Field of application

The heavy load profiles are used, for example in:

- Hospitals
- Schools and similar educational buildings
- Offices
- Administration buildings
- Kindergartens

#### Dimensions of the heavy load profile

Profile	Length mm	Web height mm	Flange width mm	Metal gauge mm	Scope of delivery Pieces / pallet
Heavy load profile C50	2600 – 4000	50	50	2	280
Heavy load profile C75	2600 – 4000	75	50	2	196
Heavy load profile C100	2600 – 4000	100	50	2	154

#### Properties and added value

- High load capacity up to 220 kg door leaf weight
- For single element and double element door frame systems
- For single-leaf and dual-leaf door systems
- Stock item that can be easily cut-to-fit the required room height
- Deflection head up to  $\pm 30$ mm, possible with standard material
- Fastening material for standard fastening contained in the scope of delivery
- Installation during construction of the partition
- Simple fastening of the cladding (2 mm material)
- Dimensions of the profiles matched to the standard substructure

#### Application

1. Position the base and anchor it with bolt anchors.
2. Position the heavy load profile on the base.
3. Vertically align the heavy load profile, mark the bolt anchor positions and drill.
4. Insert the bolts into the plugged-on head bracket and tighten them.  
Do the same for the strap and lock side.

#### Technical data

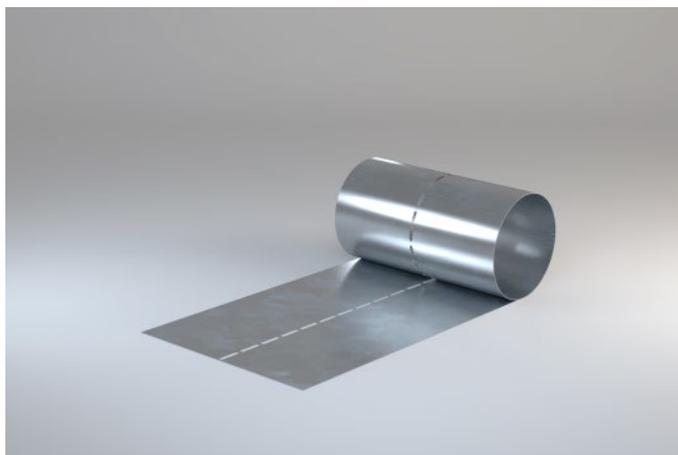
Table 113: Heavy load profile technical data

Technical data	Value	Standard
Reaction to fire	A1	EN 13501
Material	Sheet metal	EN 10346
Corrosion protection coating	Z100	EN 10346



Installation Instructions [Knauf Heavy Load Profile K691-A01.de](https://www.knauf.com/de/Products/Accessories/HeavyLoadProfile/K691-A01.de) (German)

### Flex Profile, galvanized



#### The profile on a roll for flexible implementation of corners

The Flex Profile is a highly flexible profile made of sheet metal that is supplied on a roll and bent on site, and thus is perfectly adapted to the construction task on hand.

#### Field of application

The Flex Profile is used as a backing for angled partitions, e.g. in an attic at the transition from the pitched roof to the collar beam.

#### Dimensions of the Flex Profile

Profile	Length mm	Width mm	Metal gauge mm	Scope of delivery	
				m / roll	Pieces / pallet
Flex Profile 100/06	50000	100	0.6	50	15
Flex Profile 200/06	25000	200	0.6	25	10

#### Properties and added value

- Highly flexible
- Easy and fast installation

#### Application

1. Cut the Flex Profile to the desired length with a metal shears.
2. Bend the Flex Profile in the center to match the angle of the backing partition.
3. Attach the Flex Profile to the wall using suitable fasteners.

#### Technical data

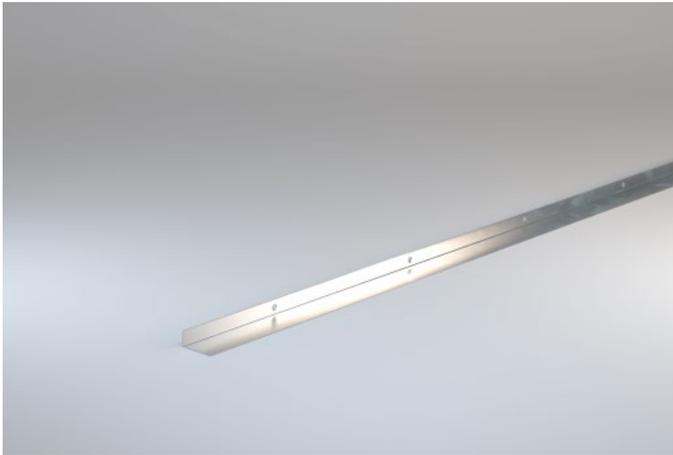
Table 114: Flex Profile technical data

Technical data	Value	Standard
Reaction to fire	A1	EN 13501
Material	Sheet metal	EN 10346
Corrosion protection coating	Z100	EN 10346



System data sheet [Knauf Furring and Linings W61.de](https://www.knauf.com/de/Products/Accessories/Furring-and-Linings/W61.de)  
 System data sheet [Knauf Metal Stud Partitions W11.de](https://www.knauf.com/de/Products/Accessories/Metal-Stud-Partitions/W11.de)

**L angle, galvanized**



**The mounting profile for wall breaks**

The L angle is an angle profile made of cold formed sheet metal with L shaped cross-sections, whose short limb is the exact width of a 12.5 mm gypsum board. Thus, the L-angle can be optimally installed around the edge of a gypsum board without a protrusion.

**Field of application**

The L angle is used as a slim connection profile for wall breaks, both in vertical as well as horizontal areas. They are always installed in pairs.

**Dimensions of the L angle**

Profile	Length	Limb length 1	Limb length 2	Metal gauge	Scope of delivery	
	mm	mm	mm		Pieces / small bundle	Pieces / large bundle
L angle 30/13/08	3000	30	13	0.8	20	600

**Properties and added value**

- Facilitates particularly slim constructions
- High stability
- Easy and fast installation

**Tests and certificates**

In compliance with EN 14195, the product is subject to initial type testing and continuous factory production control and bears the CE marking. The product is compliant with all demands of the DIN 18182-1.

**Application**

1. Cut the L angle to the required length with a metal shears.
2. Attach the L angle to the substrate using suitable fasteners.

**Technical data**

Table 115: L angle technical data

Technical data	Value	Standard
Reaction to fire	A1	EN 13501
Material	Sheet metal	EN 10346
Corrosion protection coating	Z100	EN 10346



System data sheet [Knauf Metal Stud Partitions W11.de](https://www.knauf.com/de/Products/Accessories/Profiles/W11)

Angle Profile, galvanized



**The mounting profile for installation shafts and ventilation systems**

The Angle Profile is a profile made of sheet metal with an L shaped cross-section for application with steel beam and ventilation duct cladding.

**Field of application**

**Angle Profile 30 x 30 mm**

For application of steel beam encasement on the basic ceiling.

**Angle Profile 50 x 35 mm**

For implementing corners in ventilation duct cladding.

**Dimensions of the Angle Profile**

Profile	Length	Limb length 1	Limb length 2	Metal gauge	Scope of delivery	
	mm				mm	mm
Angle Profile 30/30/07	4000	30	30	0.7	10	1000
Angle Profile 50/35/07	4000	50	35	0.7	10	1000

**Properties and added value**

- High stability
- Easy and fast installation

**Tests and certificates**

In compliance with EN 14195, the product is subject to initial type testing and continuous factory production control and bears the CE marking. The product is compliant with all demands of the DIN 18182-1.

**Technical data**

Table 116: Angle profile technical data

Technical data	Value	Standard
Reaction to fire	A1	EN 13501
Material	Sheet metal	EN 10346
Corrosion protection coating	Z100	EN 10346



System data sheet

[Knauf Fireboard Steel Beam and Steel Column Encasements K25S.de](https://www.knauf-fireboard.com/en/Products/Steel-Beam-and-Steel-Column-Encasements/K25S.de)

**U profile 18/30/08, galvanized**



**The profile for a junction with wall breaks on walls**

The U profile is a narrow profile made of cold formed sheet metal with U shaped cross-sections for use in wall breaks.

**Field of application**

The U profile is used as a slim connection profile for wall breaks, both in vertical as well as horizontal areas.

**Dimensions of the U profile**

Profile	Length	Web height	Flange width	Metal gauge	Scope of delivery	
	mm	mm	mm	mm	Pieces / small bundle	Pieces / large bundle
U Profile 18/30/08	3000	30	18	0.8	4	120

**Properties and added value**

- Facilitates particularly slim constructions
- High stability
- Easy and fast installation

**Tests and certificates**

In compliance with EN 14195, the product is subject to initial type testing and continuous factory production control and is marked with a CE mark. The product is compliant with all demands of the DIN 18182-1.

**Application**

1. Cut the U profiles to the required length with a metal shears.
2. Attach the U profile to the substrate using suitable anchors.

**Technical data**

Table 117: U profile technical data

Technical data	Value	Standard
Reaction to fire	A1	EN 13501
Material	Sheet metal	EN 10346
Corrosion protection coating	Z100	EN 10346



System data sheet [Knauf Metal Stud Partitions W11.de](http://KnaufMetalStudPartitions.W11.de)

Edge Trim, galvanized



**The profile for the protection of board edges**

The Edge Trim is a galvanized sheet metal profile with L shaped cross-section for the protection of edges on walls and ceilings.

**Field of application**

The Edge Trim is used as edge protection for gypsum boards with free ends. Furthermore, it is used with deflection heads and movement joints in partitions and ceilings.

**Dimensions of the Edge Trim**

Profile	Length	Limb lengths		Metal gauge	Scope of delivery	
	mm	mm	mm		Pieces / small bundle	Pieces / large bundle
Edge Trim 23/13	2750	23	13	0.5	10	500

**Properties and added value**

- Easy and quick to install
- Very robust
- Dimensionally stable

**Tests and certificates**

In compliance with EN 14353, the product is subject to initial type testing and continuous factory production control and bears the CE marking.

**Application**

1. Apply sufficient jointing compound on both sides of the edge.
2. Press the Edge Trim onto the edge.
3. Apply jointing compound over the Edge Trim.

**Technical data**

Table 118: Edge Trim technical data

Technical data	Value	Standard
Reaction to fire	A1	EN 13501
Corrosion protection coating	Z100	–

**Alu Corner Trim 25/15, galvanized**



**The corner trim made of aluminium**

The Alu Corner Trim is an aluminium rail with an L shaped cross-section for protection of drywall partition corners.

**Field of application**

The Alu Corner Trim is used for protection of drywall corners.

**Dimensions of the Alu Corner Trim 25/15**

Profile	Length	Limb lengths		Metal gauge	Scope of delivery	
	mm	mm	mm		Pieces / small bundle	Pieces / large bundle
Alu Corner Trim 25/15	2500	25	15	0.5	10	500

**Properties and added value**

- Easy and fast installation
- Very robust
- Dimensionally stable
- Light

**Tests and certificates**

In compliance with EN 14353, the product is subject to initial type testing and continuous factory production control and bears the CE marking.

**Application**

1. Apply sufficient jointing compound on both sides of the corner.
2. Press the Alu Corner Trim onto the corner.
3. Apply jointing compound over the Alu Corner Trim.

**Technical data**

Table 119: Alu Corner Trim 25/15 technical data

Technical data	Value	Standard
Reaction to fire	A1	EN 13501
Corrosion protection coating	Aluminium	EN 485

Corner Trim 31/31, galvanized



**The trim for the protection of partition corners**

The Corner Trim is a galvanized sheet metal rail with an L shaped cross-section for protection of drywall partition corners.

**Field of application**

The Corner Trims are used as corner protection for drywall corners.

**Dimensions of the Corner Trim 31/31**

Profile	Length	Limb lengths		Metal gauge	Scope of delivery	
	mm	mm	mm		Pieces / small bundle	Pieces / large bundle
Corner Trim 31/31	3000	31	31	0.4	20	2500

**Properties and added value**

- Easy and quick to install
- Very robust
- Dimensionally stable

**Tests and certificates**

In compliance with EN 14353, the product is subject to initial type testing and continuous factory production control and bears the CE marking.

**Application**

1. Apply sufficient jointing compound on both sides of the edge.
2. Press the Corner Trim onto the edge.
3. Apply jointing compound over the Corner Trim.

**Technical data**

Table 120: Corner Trim 31/31 technical data

Technical data	Value	Standard
Reaction to fire	A1	EN 13501
Corrosion protection coating	Z100	EN 10346

**Corner Trim Dallas 90°, galvanized**

**The paper covered corner trim for outside corners**

The Corner Trim Dallas 90° consists of a metal bracket made of sheet metal with the outside corner covered with a special paper. In combination with the material hopper, they can quickly and easily be coated directly with compound and fitted to the corners.

The special paper on the surface provides a white edge before painting. The integrated metal angle makes the corner especially resistant to impacts.

**Field of application**

The Corner Trim Dallas 90° is used for protection of outside corners in drywalling.

**Properties and added value**

- Easy and fast installation
- Suitable for painting, wallpaper, etc.
- Very robust
- Dimensionally stable

**Application**

1. Cut the corner trim to fit with a metal shears.
2. Pass it through the material hopper filled with paste-like jointing compound (e.g. Super Finish).
3. Place the corner trim covered with compound with the paper side facing upwards onto the corner and press it firmly and uniformly into place, e.g. with an outside corner roller 90°.
4. Remove excess compound and smoothen with a spatula or finishing trowel.

**Technical data**

Table 121: Corner Trim Dallas 90° technical data

Technical data	Value	Standard
Reaction to fire	E	EN 13501
Material	Sheet metal	–
Covering	Special paper	–



Pamphlet

[Perfect Corners with Corner Jointing Compound Set and Corner Trims K498.de](#)

Video (German)

[Efficient outside and inside corner application with Knauf](#)

**Dimensions of the Corner Trim Dallas 90°**

Profile	Length mm	Limb lengths		Scope of delivery	
		mm	mm	Pieces / small bundle	Pieces / large bundle
Corner Trim Dallas 90°	2600 / 2800 / 3000	35	35	50	3000

### Corner Trim Las Vegas 90°, galvanized



#### The paper covered corner trim for inside corners

The Corner Trim Las Vegas 90° consists of an inside corner with a metal bracket made of sheet metal covered with a special paper. In combination with the material hopper, they can quickly and easily be coated directly with compound and fitted to the corners.

The special paper on the surface provides a white corner before painting. The integrated metal angle makes the corner especially resistant to impacts.

#### Field of application

The Corner Trim Las Vegas 90° is used for protection of inside corners in drywalling.

#### Properties and added value

- Easy and fast installation
- Suitable for painting, wallpaper, etc.
- Very robust
- Dimensionally stable

#### Tests and certificates

In compliance with EN 14353, the product is subject to initial type testing and continuous factory production control and bears the CE marking.

#### Application

1. Cut the corner trim to fit with a metal shears.
2. Pass it through the material hopper filled with paste-like jointing compound (e.g. Super Finish).
3. Place the corner trim covered with compound with the paper side facing upwards onto the corner and press it firmly and uniformly into place.
4. Remove excess compound and smoothen with a spatula or finishing trowel.

#### Technical data

Table 122: Corner Trim Las Vegas 90° technical data

Technical data	Value	Standard
Reaction to fire	E	EN 13501
Material	Sheet metal	–
Covering	Special paper	–



Pamphlet

[Perfect Corners with Corner Jointing Compound Set and Corner Trims K498.de](#)

Video [Efficient outside and inside corner application with Knauf](#)

#### Dimensions of the Corner Trim Las Vegas 90°

Profile	Length mm	Limb lengths		Scope of delivery	
		mm	mm	Pieces / small bundle	Pieces / large bundle
Corner Trim Dallas 90°	2600 / 2800 / 3000	26	26	50	3000

**Corner Trim Göppinger 90°, galvanized**



**The paper covered end profile for expansion joints and board edges**

The Corner Trim Göppinger 90° consists of a metal bracket made of sheet metal with the outside corner covered with a special paper. The special paper on the surface provides a white edge before painting. The integrated metal angle makes the corner especially resistant to impacts.

**Field of application**

The Corner Trim Göppinger 90° is used to protect expansion joints or open board edges (e.g. edge frieze).

**Dimensions of the Corner Trim Göppinger 90°**

Profile	Length mm	Limb lengths		Scope of delivery	
		mm	mm	Pieces / small bundle	Pieces / large bundle
Corner Trim Göppinger 90°	3000	12.5	54	50	3000

**Properties and added value**

- Easy and fast installation
- Suitable for painting, wallpaper, etc.
- Robust design for a long service life
- Dimensionally stable

**Tests and certificates**

In compliance with EN 14353, the product is subject to initial type testing and continuous factory production control and bears the CE marking.

**Application**

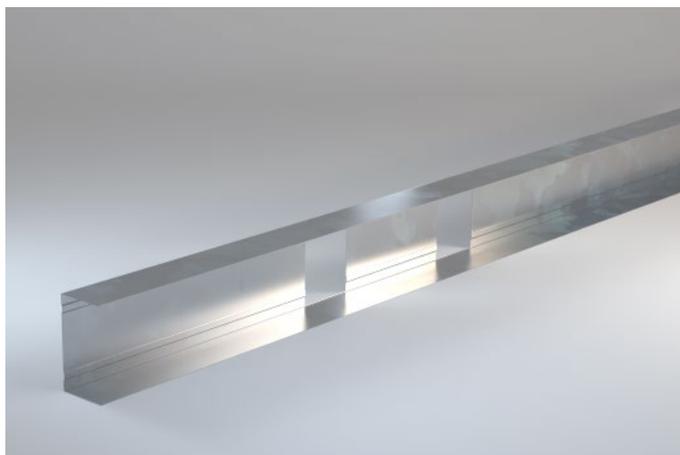
1. Cut the corner trim to fit with a metal shears.
2. Pass it through the material hopper filled with paste-like jointing compound (e.g. Super Finish).
3. Place the corner trim covered with compound with the paper side facing upwards onto the corner and press it firmly and uniformly into place.
4. Remove excess compound and smoothen with a spatula or finishing trowel.

**Technical data**

Table 123: Corner Trim Göppinger 90° technical data

Technical data	Value	Standard
Reaction to fire	A1	EN 13501
Material	Sheet metal	–
Covering	Special paper	–

### Door lintel profile CW/UA, galvanized



#### The profile for precise design of a door lintel

The door lintel profile is a cold formed sheet metal profile with U shaped cross-section with openings in the lap area than can be applied to the conventional door openings.

#### Field of application

The door lintel profile is used for creation of a door opening in partition walls.

With the openings in the lap the door lintel profile is suitable for the following opening dimensions:

- 610 to 650 mm
- 735 to 775 mm
- 860 to 900 mm
- 985 to 1025 mm

#### Dimensions of the door lintel profile CW/UA

Profile	Length mm	Design	Scope of delivery Pieces / package
Door lintel profile CW/UA 50	1600	U-50er	10
Door lintel profile CW/UA 75	1600	U-75er	10
Door lintel profile CW/UA 100	1600	U-100er	10

#### Properties and added value

- Easy and fast installation

#### Tests and certificates

In compliance with EN 14195, the product is subject to initial type testing and continuous factory production control and bears the CE marking.

#### Application

1. Place it under the door frame bracket on the first door jamb.
2. Slide the door jamb through the 50 mm wide hole in the door lintel profile corresponding to the planned door opening. The door lintel profile is oriented with the flanges facing upwards so that the CW studs can be inserted if required.
3. Plug on the door frame bracket for ceiling connection and set the first door jamb into the UW profiles on the floor and ceilings.
4. Mount the second door jamb in the same way as the first door jamb.
5. Align the door jambs and fix the door lintel profile to the desired height with the enclosed one-sided self-adhesive fixing strips.
6. Fix the door frame brackets with two Nailable Plugs each.

#### Technical data

Table 124: Door lintel profile CW/UA technical data

Technical data	Value	Standard
Reaction to fire	A1	EN 13501
Material	Sheet metal	EN 10346
Corrosion protection coating	Z100	EN 10346



System data sheet [Knauf Metal Stud Partitions W11.de](https://www.knauf.com/de/Products/Partitions/Partitions-Accessories/Door-Partitions/Door-Partitions-Accessories/Door-Partitions-Accessories-Technical-Data)

### KAW Façade Profile, C3-C5M



#### The profile for the exterior wall

The KAW Façade Profile 150 is a cold-formed sheet metal profile with a C-shaped cross-section and C3 corrosion protection coating intended for use in the Knauf Exterior Wall System. This enables the design and implementation of façades in old and new buildings. Compared to conventional construction methods, the building envelope can be constructed much faster and with less weight.

#### Field of application

The KAW Façade Profile 150 is used for the installation of the frame of the Knauf Exterior Wall System. Furthermore, there are perfectly matched system components with the KAW Steel Angle and the KAW Screw enabling an optimum system design.

#### Dimensions of the KAW Façade Profile

Profile	Length	Flange width	Web height	Metal gauge	Scope of delivery	
	mm	mm	mm	mm	Pieces / small bundle	Pieces / large bundle
KAW Façade Profile 150	3600	40	150	1	4	48

*Customized lengths on request*

#### Properties and added value

- Low weight
- Perfectly coordinated system
- Corrosion protection C3-C5M
- Structural preliminary design of the façade with system components from Knauf Direkt

#### Tests and certificates

In compliance with EN 14195, the product is subject to initial type testing and continuous factory production control and bears the CE marking. The product is compliant with all demands of the DIN 18182-1.

#### Technical data

Table 125: KAW Façade Profile technical data

Technical data	Value	Standard
Reaction to fire	A1	EN 13501
Corrosion protection coating	C3	EN ISO 12944

### Notes on the document

Knauf technical brochures are the information documents on special topics as well as on the specialist competence from Knauf. The contained information and specifications, constructions, details and stated products are based, unless otherwise stated, on the Certificates of Usability (e.g. National Technical Test Certificate (abP) valid at the date they are published as well as on the applicable standards. Additionally, design and structural requirements and those relating to building physics (fire resistance and sound insulation) are considered.

### References to other documents

#### System data sheets

- [Knauf Metal Stud Partitions W11.de](#)
- [Knauf Furring W61.de](#)
- [Knauf Board Ceiling D11.de](#)
- [Knauf Wood Joist Ceiling Systems D15.de](#)
- [Knauf AQUAPANEL Metal Stud Partitions W38.de](#)
- [Knauf AQUAPANEL Furring W68.de](#)
- [Knauf AQUAPANEL Board Ceiling D28.de](#)

#### Technical brochures

- [Knauf Interior Design Tro145.de](#)

#### Pamphlets

- [Knauf Sinus for fantastic curves Tro42.de](#)

#### Technical Information

- [Fastening of Loads to Knauf Wall and Ceiling Systems VT03.de](#)

#### Instructions

- [Knauf Heavy Load Profile K691-A01.de](#)
- [Cleaneo linear K761L-A01.de](#)

#### Product data sheets

- Observe the product data sheets of the Knauf system components

#### Legend symbols

- 1 Legend number that will be explained when used

### Intended use of Knauf Systems

Please observe the following:

#### Caution

Knauf systems may only be used in the applications as described in the Knauf documents. In case third-party products or components are used, they must be recommended or approved by Knauf. Flawless application of products / systems assumes proper transport, storage, assembly, installation and maintenance.

### General instructions

#### Terms

The terms used in our documents for construction heights may not always be consistent due to the diverse range of subject areas concerned, or are only clearly defined in a few cases. Furthermore, there are hardly any definitions in the standard regarding the individual levels of a ceiling construction.

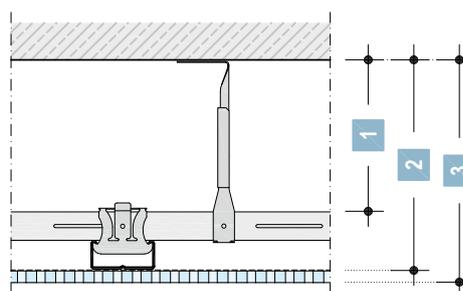
For example, the suspension height in fire resistance is not the same as the construction depth in acoustics. In acoustics, the board thicknesses are considered, where as in fire resistance only the area up to the rear of the gypsum board (plenum) is considered.

For detailed determination of the individual levels only the terms upper grid level and total construction height are introduced.

With the upper grid level on a suspender component (e.g. Nonius suspender), the distance between the basic ceiling lower edge up to the upper edge of the suspended CD Channel is implied. The same applies for Universal Brackets or the Ankerfix.

This has the advantage that a fixed area from the basic ceiling is defined regardless of the type of suspender, and the dimensions can be clearly derived from this.

For the reasons mentioned, the different terms are shown in the drawing below. The terms in brackets are currently designations in the current product data sheets, which will be harmonized in future acc. to the drawing.



- 1 Upper grid level (height of suspension / installation height)
- 2 Suspension height (height of the plenum)
- 3 Total height (construction height / total height / construction depth)





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