

Keku® Fitting and room system

Design and construct in furniture manufacturing and interior fitting



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Great connection - easy to release!

Keku® Wall and front panel structures

The Keku® aluminium substructure for high-quality interior fittings in the private and public sectors. The system provides innovative and technical solutions.

- Individual panels or cladding are fixed in such a way that they are reversible
- Hooked in or slid on with Keku®
- Mounted with concealed hinges
- Integrable fixtures, doors, built-in cabinets, switch cabinets and sub-distribution systems
- Easy planning and systematic installation

For cladding with screw-proof panel materials of all kinds, starting from a thickness of 10 mm. Re-using the sub-construction when design changes are made is useful.

The aluminium substructure of Keku® is attached to the wall and the floor with adjustable accessories or secured between the floor and the ceiling.

Areas of application

- High quality interior fittings
- Renovations and redesigns of any kind
- Media walls, media and conference rooms
- Parking area solutions for sliding walls
- Acoustic measures
- Special constructions

Keku® Partition wall structures

Individual, space-creating structures can be realised with the Keku® R aluminium substructure.

The system provides solutions for a wide variety of requirements for interior fittings and exhibition stand construction. Skilled manual processing results in the following advantages:

- Flexible wall thicknesses with outstanding statics
- Outstanding dimensional accuracy for excellent joint precision and quality
- Reversible wall panels hooked in or slid on with Keku® fittings
- Easy planning, high degree of pre-fabrication, rational installation

All screw-proof panel materials starting at a thickness of 10 mm can be used as panels.

Keku® Ceiling structures

The Keku® R room system makes it possible to create structures for false ceilings and suspended ceilings with different ceiling suspension brackets. Be it simply screwed in via the slotted holes or as cross-sectioning with floor/ceiling profiles. A solution is available for every requirement.

Load tables for arranging the ceiling suspension brackets and Keku® fittings are available for planning.



Wall cladding

The sub-construction consists of 6-metre-long aluminium profiles with a profile cross-section of 36 x 36 mm. The profiles are perforated at 32 mm intervals to accommodate the Keku® fittings. Fixing to the wall takes place using a slotted hole in the centre bar of the [supporting profile \(782.10.006\)](#). Adjustment of +/- 10 mm is possible in all directions with the [3D wall/ceiling installation \(782.00.900\)](#).

A [profile \(782.11.006\)](#) with [profile connectors \(782.15.060\)](#) and [elevating inserts \(782.16.000\)](#) is available as a floor/ceiling connection. Open panel joints up to 30 mm have joint profiles made from aluminium or wood behind them. The individual wall panels are hooked in using Keku® EH fittings or slid on at the front using Keku® ASR.

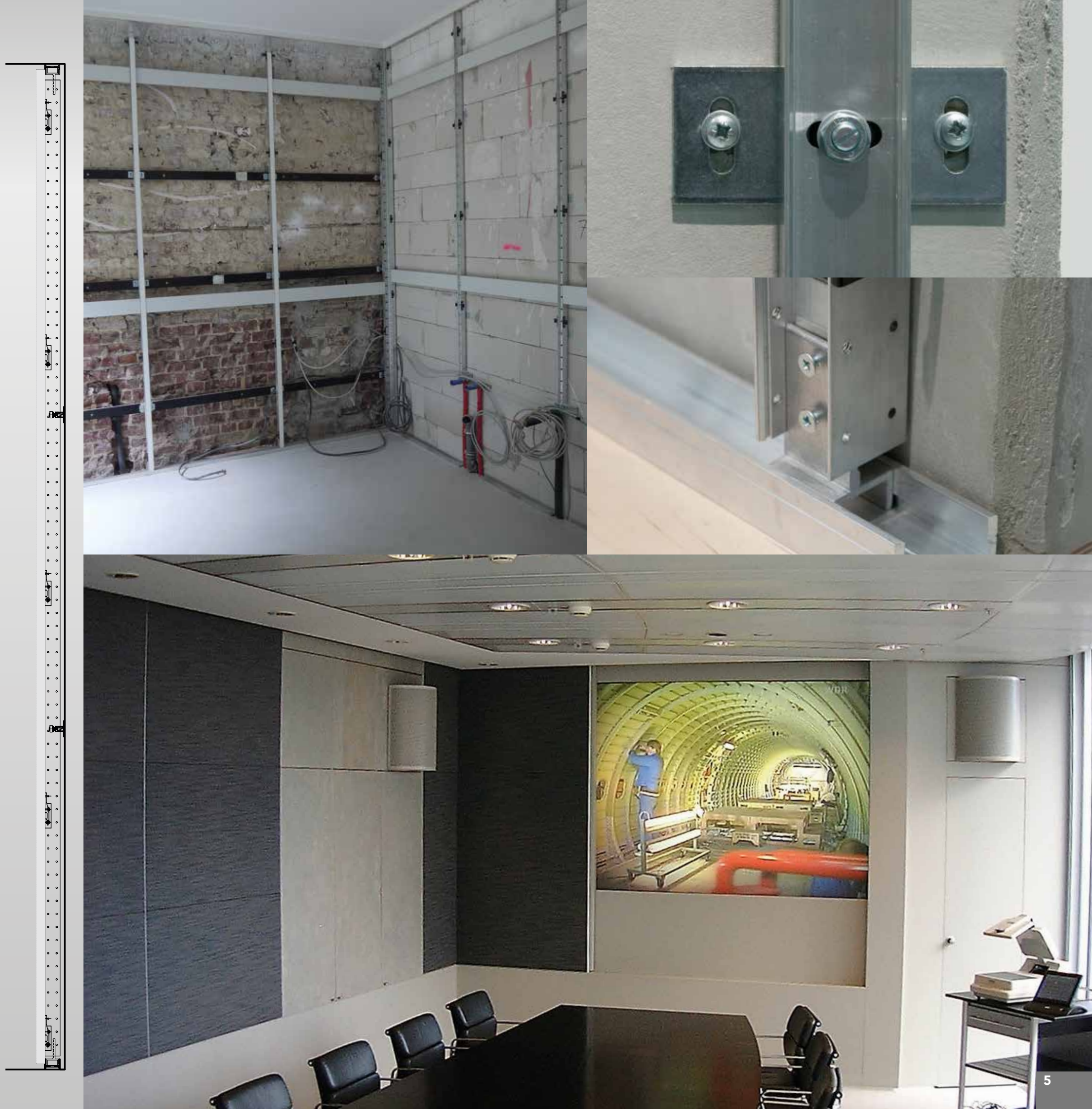
The solution for individual room design in demanding interior fitting.

Areas of application:

- Problem walls
- Wall cladding with individual joint and panel sections
- Media walls, media and conference rooms
- Parking area solutions for sliding walls
- Acoustic measures
- With integrated doors, built-in cabinets or inspection openings

Advantages:

- Easy pre-planning
- Variety of applications with different panel materials and other materials
- Systematic assembly with pre-fabricated parts
- Quick and easy to disassemble at any time
- Reusable, recyclable



Partition wall

As far as partition walls are concerned, a distinction is made between lightweight and double-leaf partition walls.

The lightweight partition wall has a wall thickness of 74 mm and a panel thickness of 19 mm. The [supporting profile \(782.10.006\)](#) is covered on both sides with panels that have been hooked in or slid on. The floor connection is made using [floor/ceiling profiles \(782.11.006\)](#) and [profile connectors \(782.15.060\)](#). For floor-to-ceiling walls the supporting profile can be secured between the floor and the ceiling. Another floor/ceiling profile is used to do this.

For the double-leaf partition wall, 2 supporting profiles are connected to form a supporting element with [insert connectors \(782.15.110\)](#) or timber struts.

This construction method makes it possible to manufacture load-bearing partition walls with a wall thickness of more than 150 mm.

The basis is formed by the floor profiles and adjusting profiles

Areas of application:

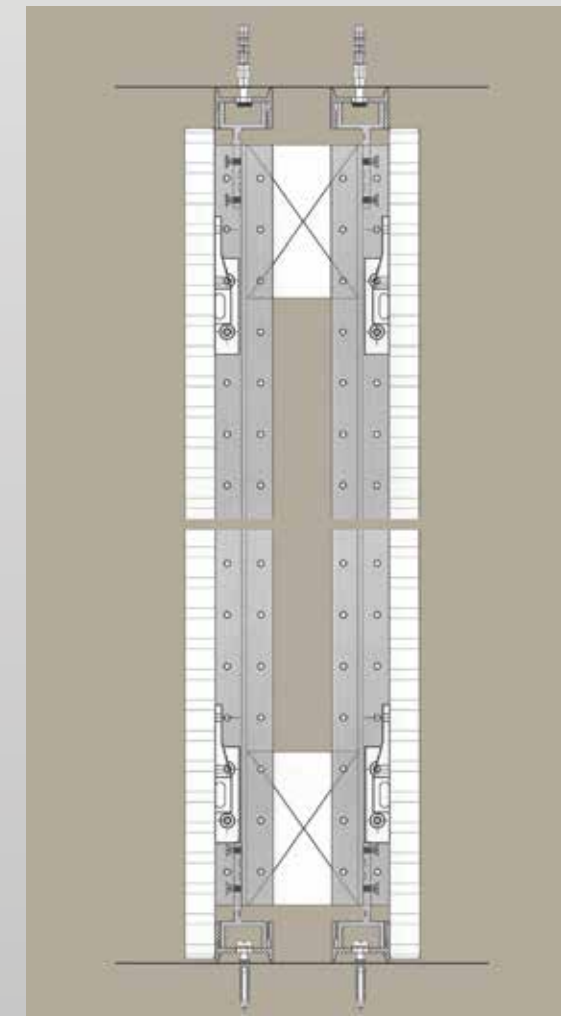
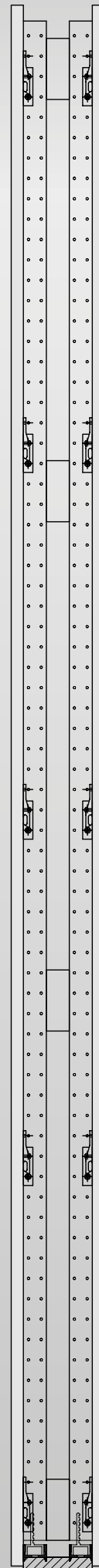
- Mobile rooms
- Travelling exhibitions - Information events - Events
- Shop-in-Shop solutions
- Rooms within an open plan office environment
- Acoustically effective partition walls
- Separate meeting and conference rooms in closed buildings
- VIP lounge areas
- Screened interior rooms
- All types of function rooms, e.g. at trade fairs

Advantages:

- Variable wall thicknesses
- High degree of pre-fabrication
- Exact joint arrangement
- Reversible
- System accessories for rational processing

① Floor connection

② Spacer brackets as installation aid



Ceiling cladding

Different suspension brackets are available for suspended ceilings and false ceilings which make it possible to react to a wide variety of requirements and structural situations.

- Direct bolting thanks to slotted holes
- With M8 threaded rods (020.80.908) and suitable compact dowels
- With 3D Wall/ceiling fastener (782.00.900)
- With 3D Wall spacers (782.00.910) and M8 threaded rods

Insert suspension fittings (782.15.100) can be used for rational installation. These can be moved to any position in the [supporting profile](#) (782.10.006). The use of the [floor/ceiling profile](#) (782.11.006) as cross-sectioning is particularly convenient.

If bigger span widths without fixing facilities need to be bridged, 2 supporting profiles can be connected to create supporting elements with good static values.

The use of the Keku® system for ceiling structures requires conscientious, skilled handling. If threaded rods are being used, you must work with lock nuts.

You can request load tables and data sheets to help with your planning.



Furniture construction

The Keku® room systems and Keku® fitting systems are also an ideal basis for reversible problem solutions in furniture construction. Be it in individual design in the private sphere or in practical implementation in the business world - the Keku® systems leave nothing to be desired.

Higher degree of pre-fabrication - rational installation

Suitable fittings for any requirement:

- For hooking in rear panels, inspection covers and fitting strips
- Detachable connections for corner panels
- For sliding on rear walls and front connection panels
- Fixing of side panels with installation space
- For doubling door panels
- For fixing fascia panels or radiator covers

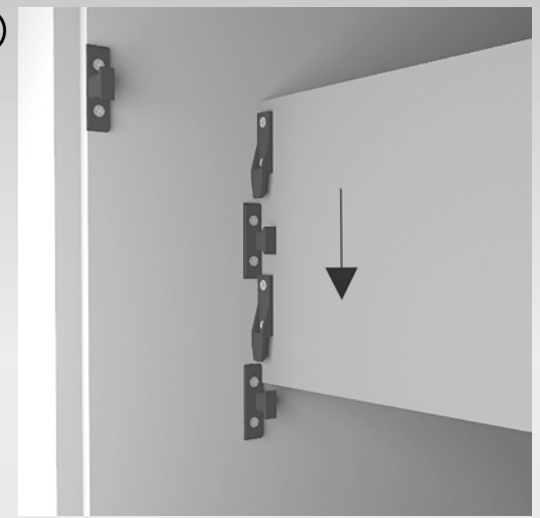
The slide-on fittings can be secured in series drilled holes (37 mm from front edge).
Connection panels to door and drawer fronts can be levelled using [spacer plates](#).
The fittings are also available in white on request.

Butted or mitred detachable corner connections are made with EHS Keku® fittings.

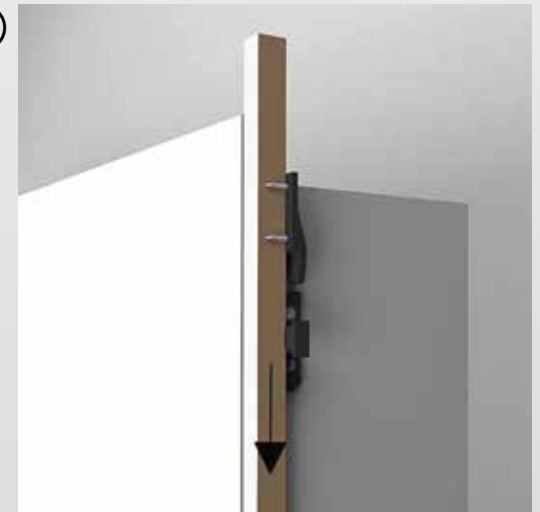
- ① Installation aid for adjusting the cabinets
- ② Long front panels hooked in
- ③ Slid-on cross panels
- ④ Slid-on end panel with installation space



①



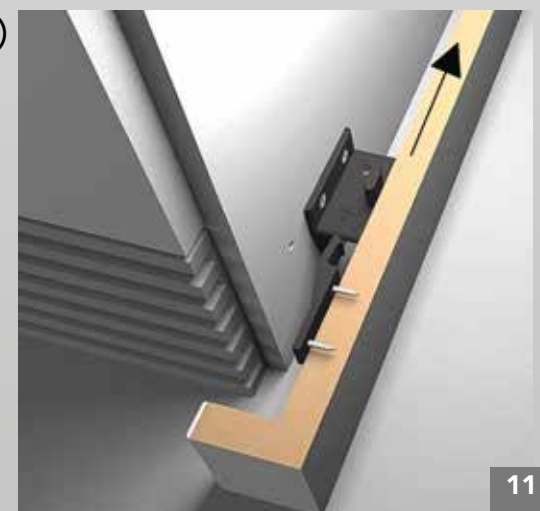
②



③



④



Panel component Type EH

For screw fixing to panels with Hospa chipboard screws or Varianta screws

Mat.: Polycarbonate (PC)
Colour: black
Packing: 200 pieces



Panel component Type EH with lip

Hospa: 262.49.356
Varianta: 262.49.357

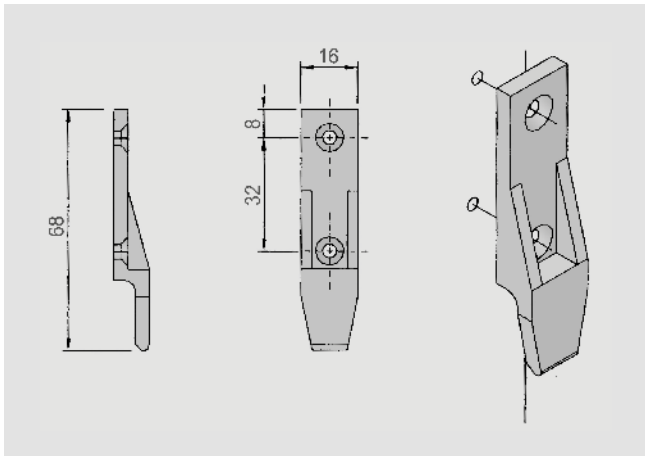
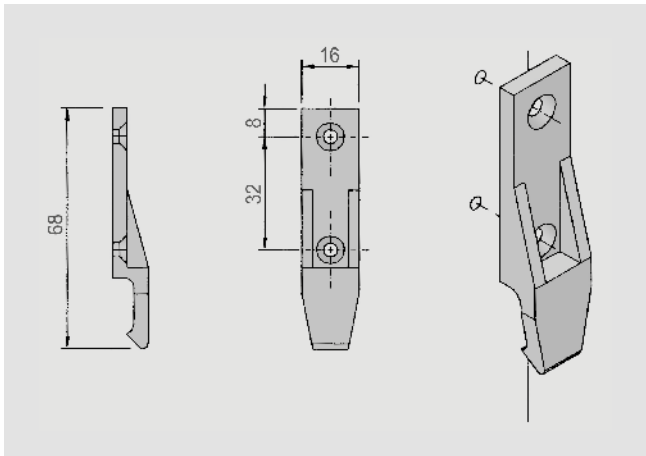


Panel comp. Type EH without lip

Hospa: 262.49.350
Varianta: 262.49.351



Dimensions



Corresponding elements for panel component Type EH:



Frame component Type EH
▶▶ Page 14



Frame component Type EHS
▶▶ Page 14



Frame component Type EH, for groove mounting
▶▶ Page 16



Area component Type EH
▶▶ Page 18



Area component Type EHS
▶▶ Page 18



Angled component Type AD 15
▶▶ Page 17



Angled component Type AD 30
▶▶ Page 17

Frame component Type EH, EHS

For screw fixing to sub-constructions with Hospa chipboard screws or Varianta screws

Mat.: Polycarbonate (PC)
Colour: black
Packing: 200 pieces



Frame component Type EH

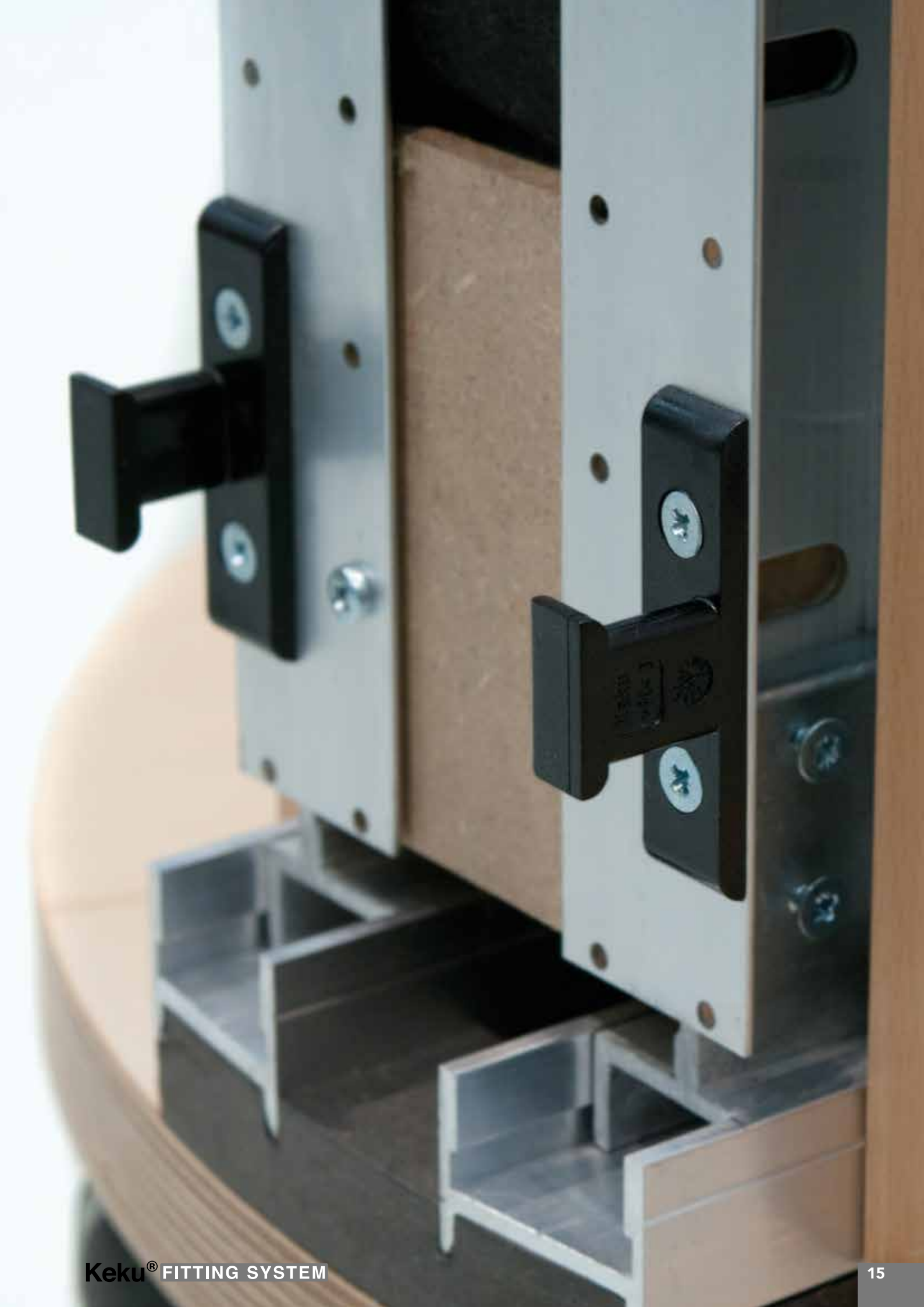
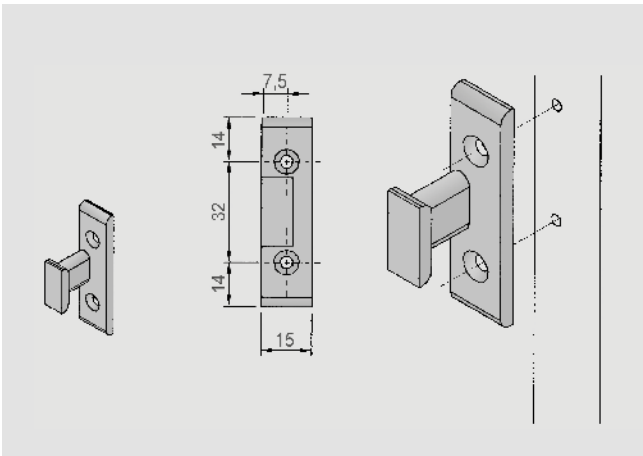
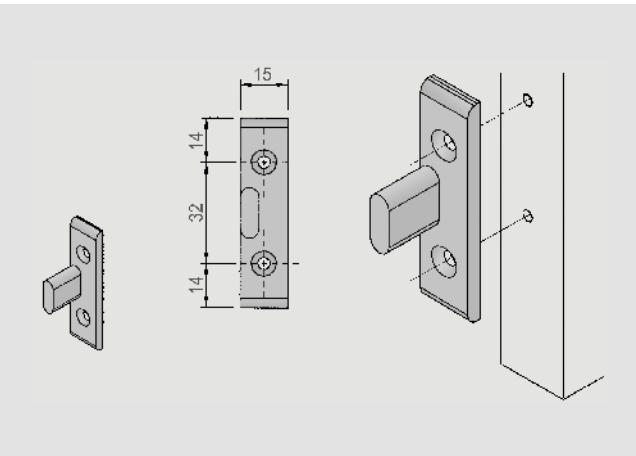
Hospa: 262.49.365
Varianta: 262.49.366



Frame component Type EHS

Hospa: 262.49.367
Varianta: 262.49.368

Dimensions



Frame component for groove mounting

For groove mounting and screw fixing to sub-constructions with Hospa chipboard screws

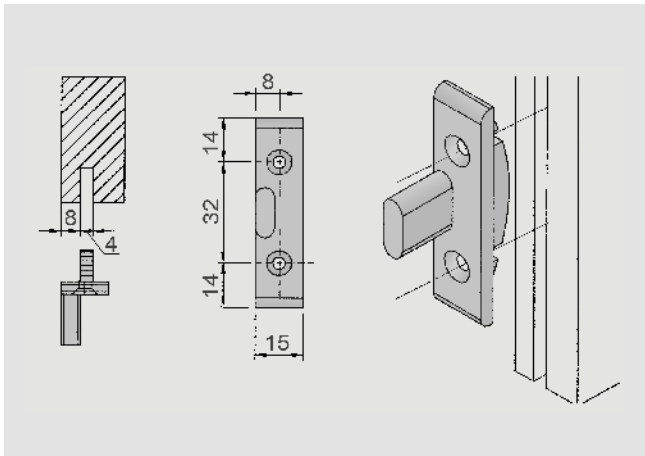
Mat.: Polycarbonate (PC)
Colour: black
Packing: 200 pieces



Frame comp. for groove mounting

Hospa: 262.49.360

Dimensions



Angled component Type AD

For screw fixing to sub-constructions with Hospa chipboard screws or Varianta screws

Mat.: Polycarbonate (PC)
Colour: black
Packing: 200 pieces



Angled component Type AD 15

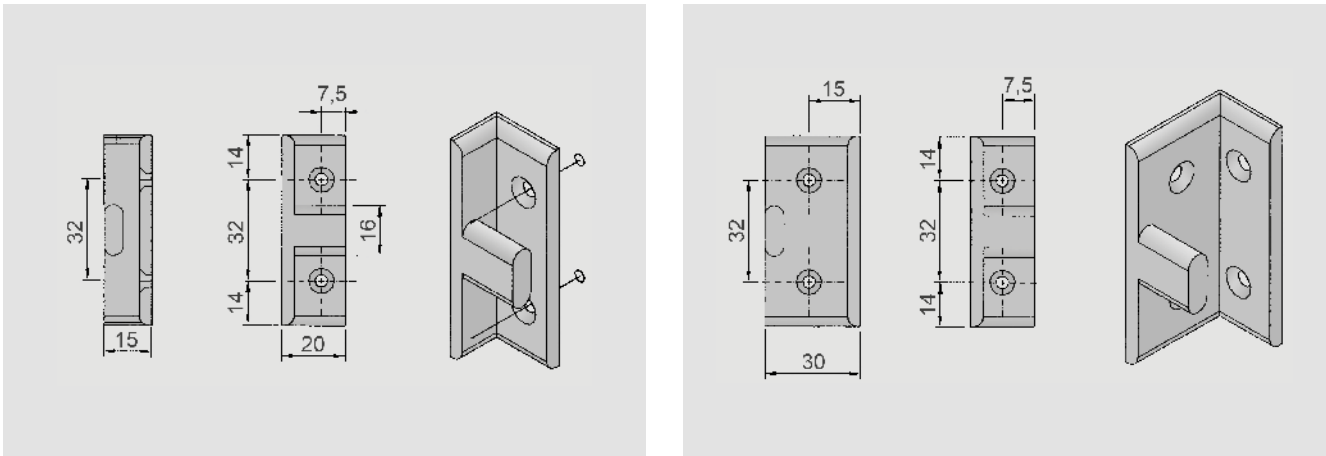
Hospa: 262.51.380
Varianta: 262.51.381



Angled component Type AD 30

Hospa: 262.51.390
Varianta: 262.51.391

Dimensions



Area component Type EH, EHS

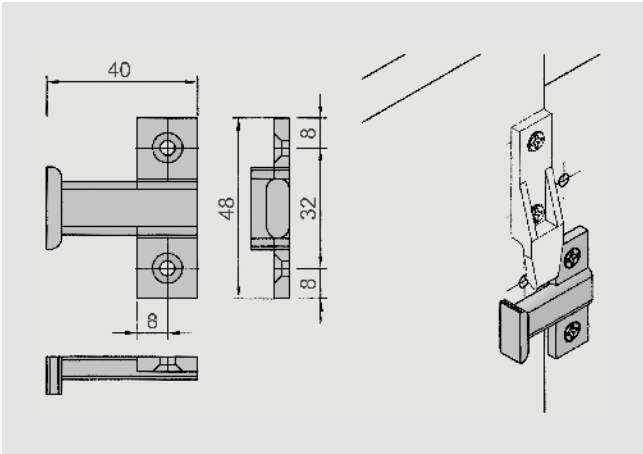
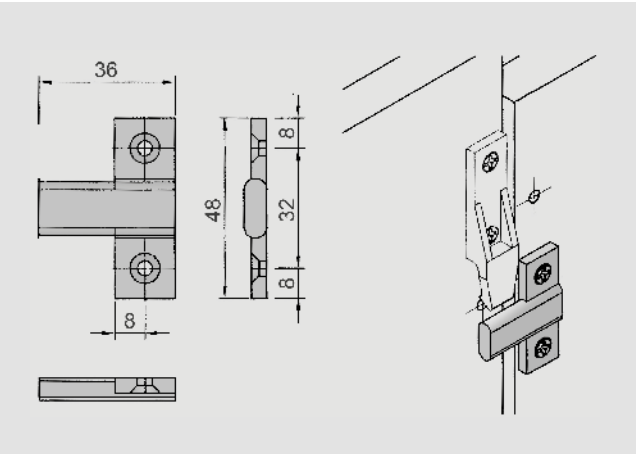
For hooking on balustrade panels in window areas and fascia panels in passageways.

Fixing with Hospa chipboard screws or Varianta screws.

Mat.: Polycarbonate (PC)
Colour: black
Packing: 200 pieces



Dimensions



Panel component Type AS

For screw fixing to panels with Hospa chipboard screws or Varianta screws

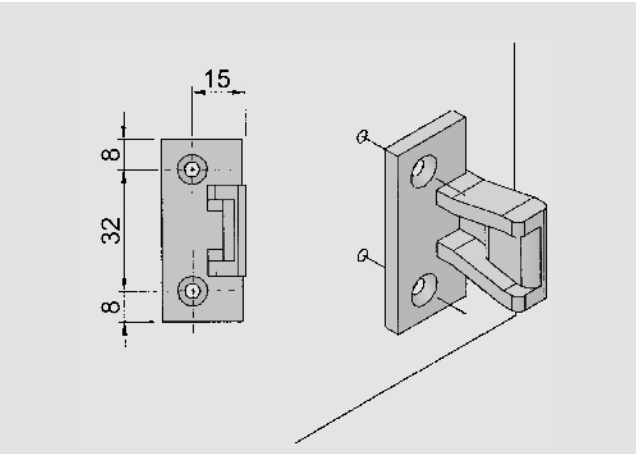
Mat.: Polycarbonate (PC)
Colour: black
Packing: 200 pieces



Panel component Type AS

Hospa: 262.50.359
Varianta: 262.50.358

Dimensions



Frame component Type AS, ASR

For screw fixing to sub-constructions, with Hospa chipboard screws or Varianta screws

Mat.: Polycarbonate (PC)
Colour: black
Packing: 200 pieces



Frame component Type AS

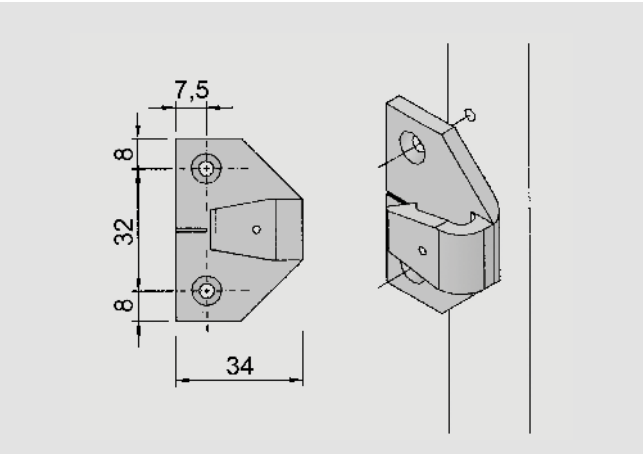
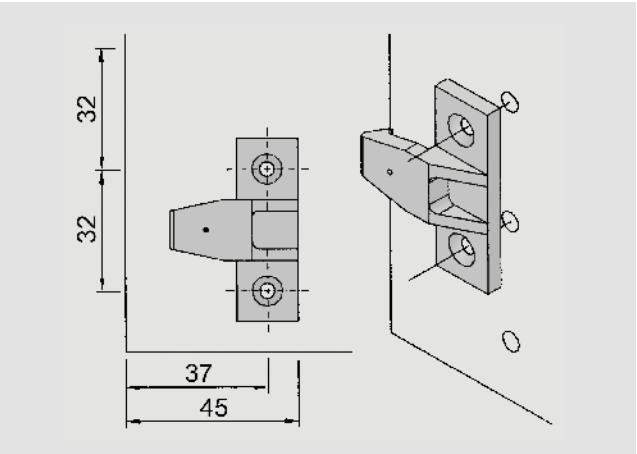
Hospa: 262.50.368
Varianta: 262.50.377



Frame component Type ASR

Hospa: 262.50.390
Varianta: 262.50.391

Dimensions



Spacer plate Type EH

Stackable, self-fixing,
installation with Hospa chip-
board screws or Varianta screws

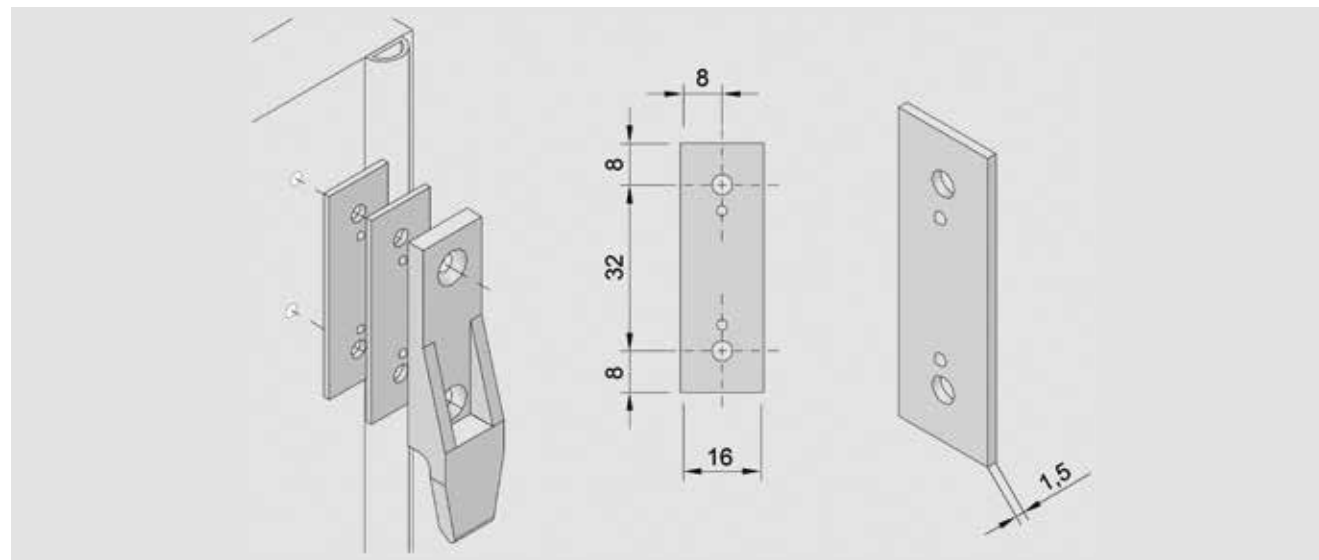
Mat.: Polycarbonate (PC)
Colour: black
Packing: 200 pieces



Spacer plate Type EH

Hospa: 262.49.352
Varianta: 262.49.353

Dimensions



Spacer plate Type AS

Stackable, self-fixing,
installation with Hospa chip-
board screws or Varianta screws

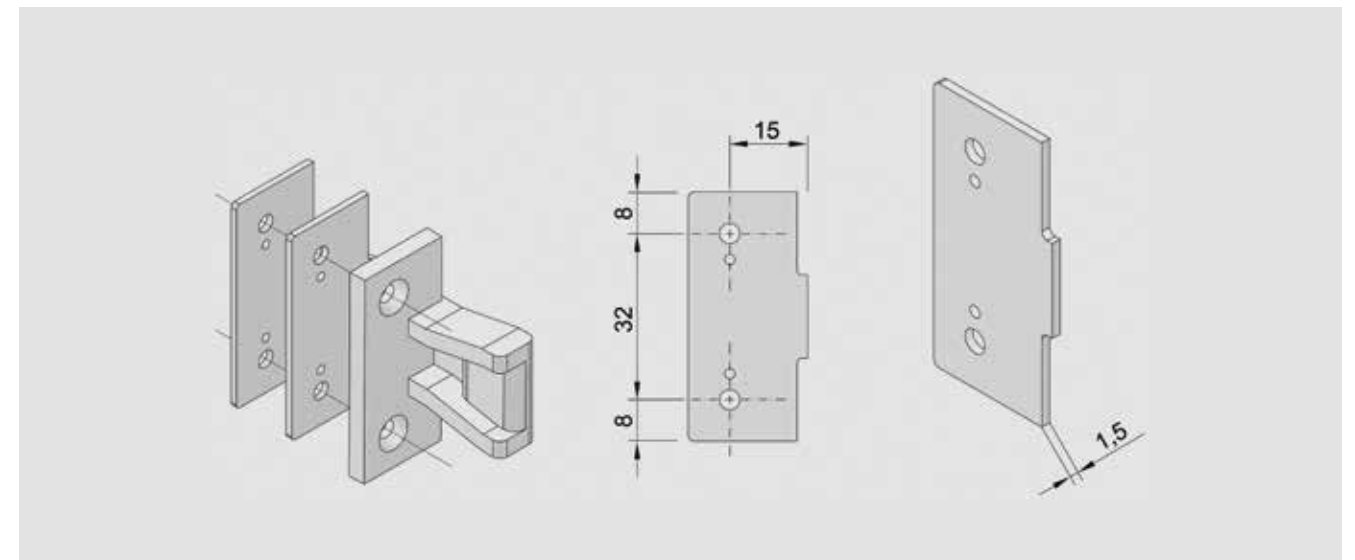
Mat.: Polycarbonate (PC)
Colour: black
Packing: 200 pieces



Spacer plate Type AS

Hospa: 262.50.362
Varianta: 262.50.363

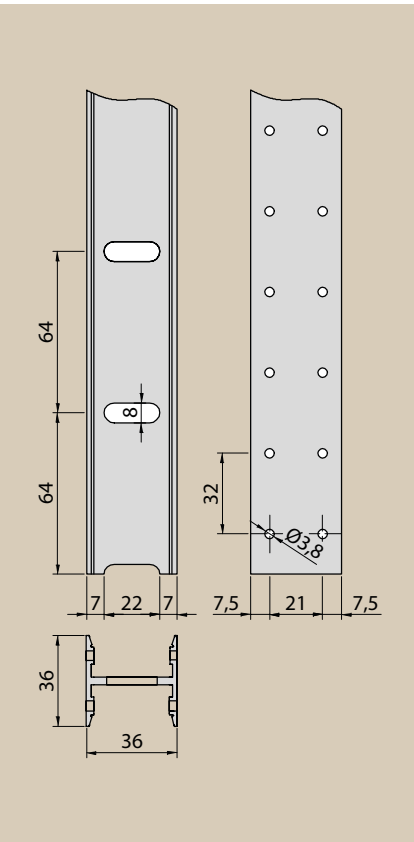
Dimensions



Keku® Room system

Supporting profile

Mat.:	Aluminium	
Colour:	bright	
Length:	6000 mm	
Double-row series drilled holes 3.8 mm, at 32 mm intervals		
Horizontal slot 22/8 mm, at 64 mm intervals		
Series drilled holes for:		
Keku® EH frame component		Page 14
Keku® EHS frame component		Page 14
Keku® AD15 angled component		Page 17
Keku® ASR frame component		Page 21
Cross connector	782.15.030	Page 34
Corner bracket	782.15.080	Page 38
Joint profile securing clip	782.15.090	Page 39
Horizontal slot for:		
3D Wall spacer	782.00.910	Page 32
8 mm threaded bolt	020.80.908	
Various mounting screws		
For clipping on:		
Joint profile	782.13.003	Page 28
Perforated joint profile	782.14.003	Page 29
Panel strips 4 mm		
Inserts in profile grooves:		
Cross connector	782.15.030	Page 34
Mitre connector	782.15.050	Page 35
Profile connector	782.15.060	Page 36
Insert connector 50/50	782.15.070	Page 37
Insert suspension fitting	782.15.100	Page 40
Insert connector	782.15.110	Page 41
Slot nut	782.16.010	Page 44



Floor/ceiling profile

Mat.: Aluminium
Colour: bright
Length: 6000 mm

Notched grooves as drilling mark

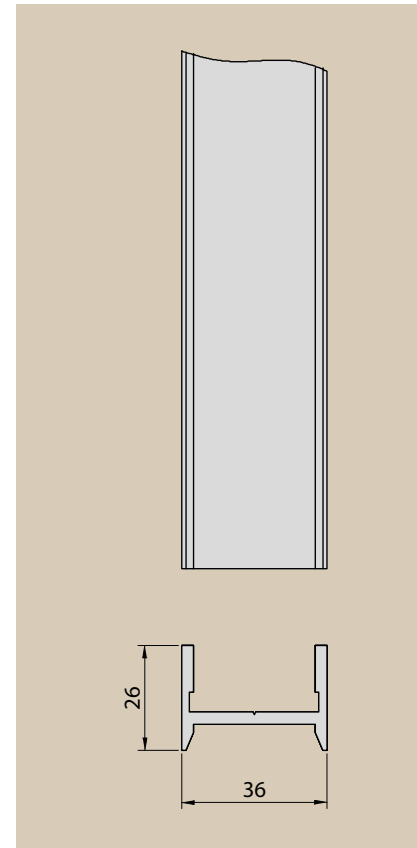
Guide profile for:
Profile connector
Adjusting profile

Profile grooves for:
Insert connector 50/50
Mitre connector
Cross connector
Longitudinal connector
Slot nut



Floor/ceiling profile

Ord. No.: 782.11.006



Adjusting profile

Accommodation of floor profile

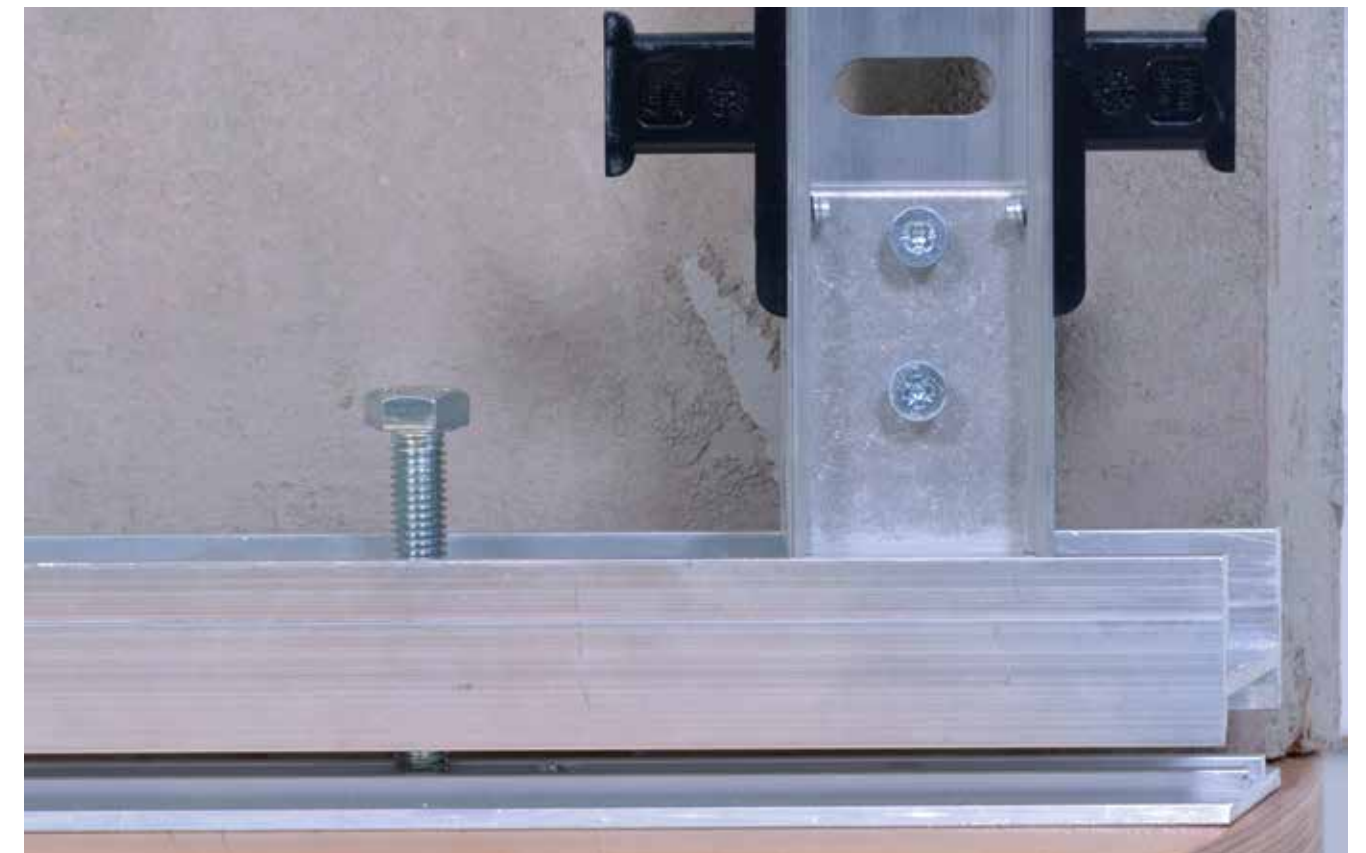
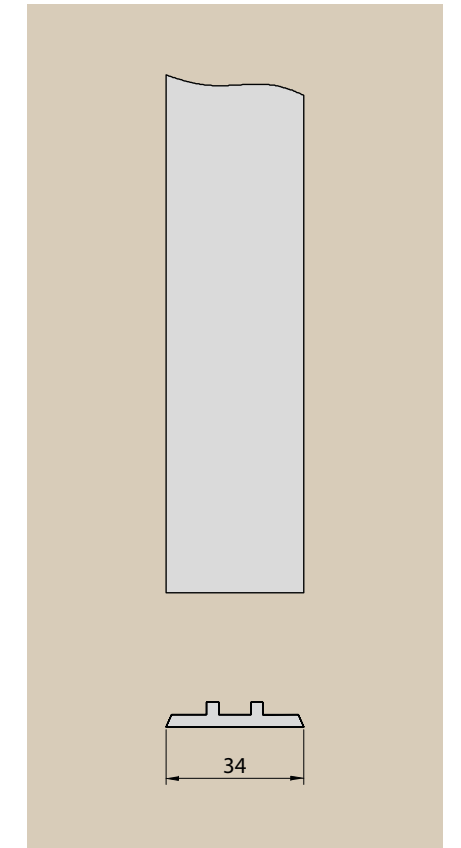
Mat.: Aluminium
Colour: bright
Length: 3000 mm

Side guidance of the elevating insert



Adjusting profile

Ord. No.: 782.12.003



Keku® Room system

Joint profile

Clip in after basic installation

Mat.: Aluminium

Surface: bright, can be anodised

Length: 3000 mm

Joint base: 2 - 30 mm




Joint profile

Ord. No.: 782.13.003

Keku® Room system

Joint profile

Joint profile with slots

Mat.: Aluminium


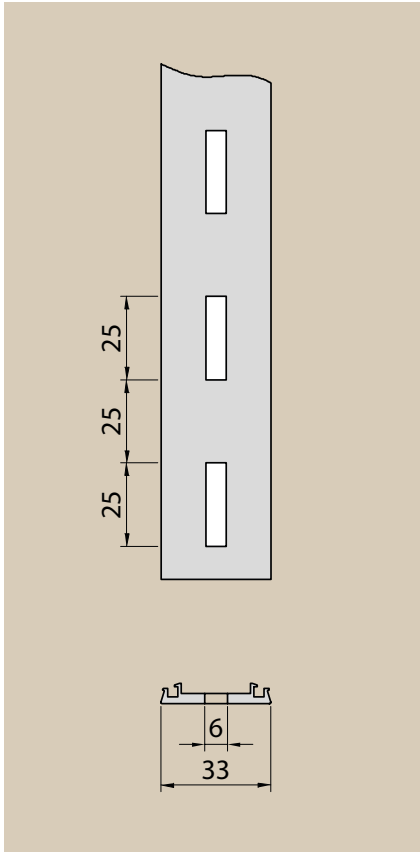
Surface: bright, can be anodised

Length: 3000 mm

Slots 6 x 25 mm at 50 mm intervals (shopfitting standard)

Clip in after basic installation and before hooking in the panel

Clip into profile groove: Joint profile securing clip

Joint profile with slots

Ord. No.: 782.14.003



Keku® Room system

Joint profile

Joint profile, horizontal

 Mat.: Aluminium
 Surface: bright, can be anodised
 Length: 3000 mm

 For horizontal joints up to 30 mm
 For fixing with EH / AS panel components

Joint profile, horizontal
 Ord. No.: 782.14.010



Keku® Room system

3D Wall/ceiling fastener

For adjusting the supporting profile in all directions

 Mat.: Steel, galvanized
 Packing: 10 pieces

3D Wall/ceiling fastener
 Ord. No.: 782.00.900

Wall clearance 40-50 mm



Keku® Room system

3D Wall spacer

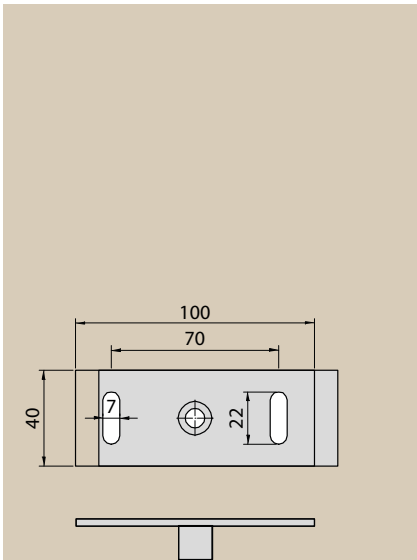
3D Wall spacer, adjustable

Mat.: Steel, galvanized
Packing: 10 pieces

For 8 mm threaded bolt



3D Wall spacer
Ord. No.: 782.00.910



For 8 mm threaded bolt.
Wall clearance can be selected freely.



Keku® Room system

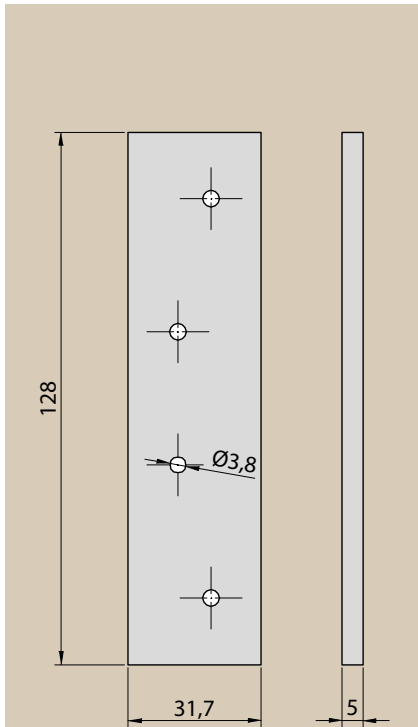
Longitudinal connector

Mat.: Aluminium
Surface: vibratory ground
Packing: 10 pieces

For connecting supporting
profiles with system screws



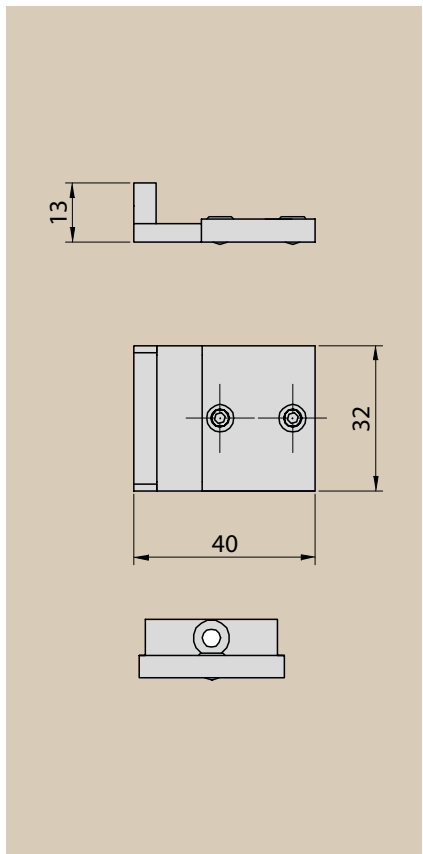
Longitudinal connector
Ord. No.: 782.15.010



Cross connector

Mat.: Aluminium
Surface: vibratory ground
Packing: 100 pieces

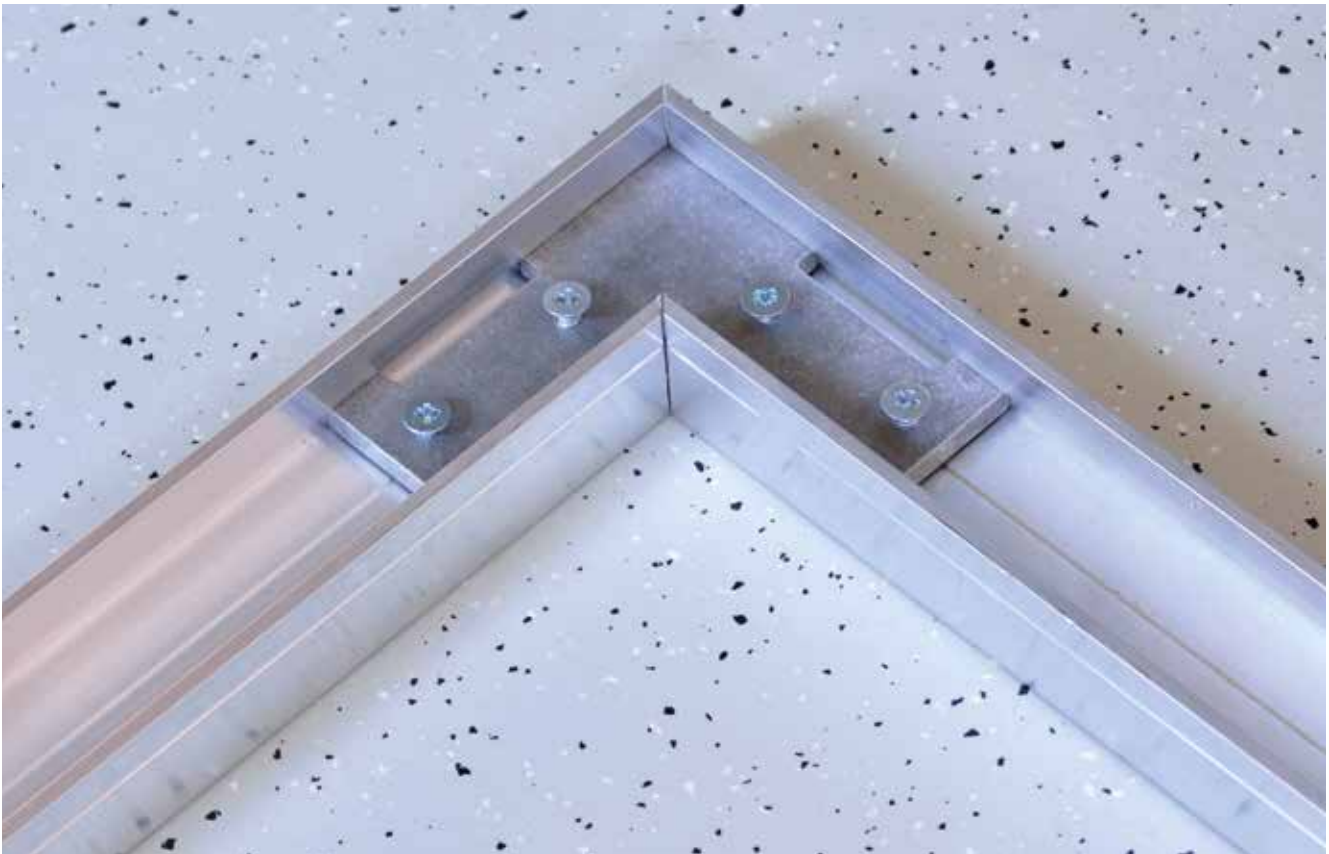
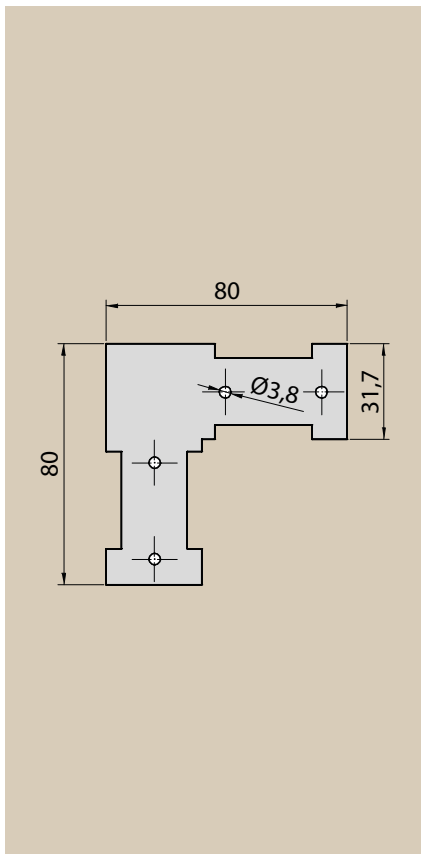
For connecting supporting profiles with transverse profiles at a 90° angle



Mitre connector

Mat.: Aluminium
Surface: vibratory ground
Packing: 10 pieces

For connecting supporting and floor profiles at a 90° angle



Profile connector

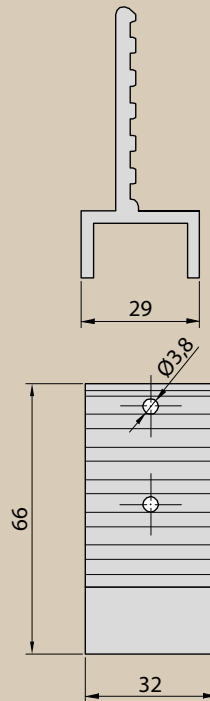
Mat.: Aluminium
Surface: vibratory ground
Packing: 100 pieces

For connecting supporting profiles with floor/ceiling profiles and for height compensation



Profile connector

Ord. No.: 782.15.060



Insert connector 50/50

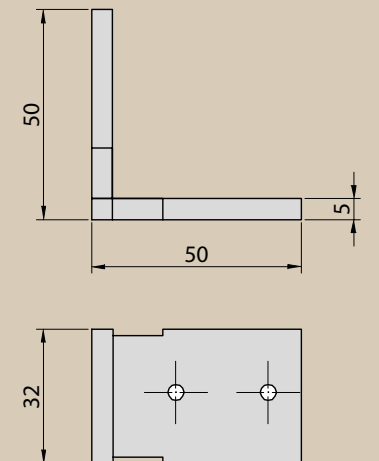
Mat.: Aluminium
Surface: vibratory ground
Packing: 10/100 pieces

For connecting supporting profile corners (90°) by insertion into supporting profile groove for system screws



Insert connector 50/50

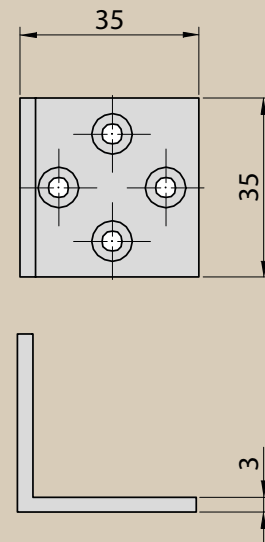
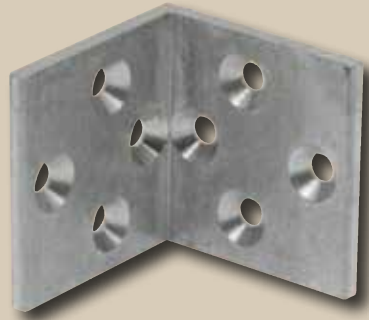
Ord. No.: 782.15.070



Corner bracket

Mat.: Aluminium
Surface: vibratory ground
Packing: 100 pieces

For connecting supporting profiles (90°) with system screws



Corner bracket

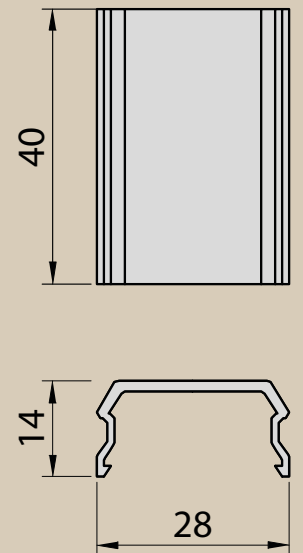
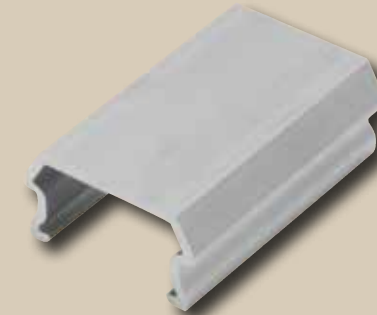
Ord. No.: 782.15.080



Joint profile securing clip

Mat.: Aluminium
Surface: vibratory ground
Packing: 100 pieces

For joint profile with holes for use with brackets



Joint profile securing clip

Ord. No.: 782.15.090



Insert suspension fitting

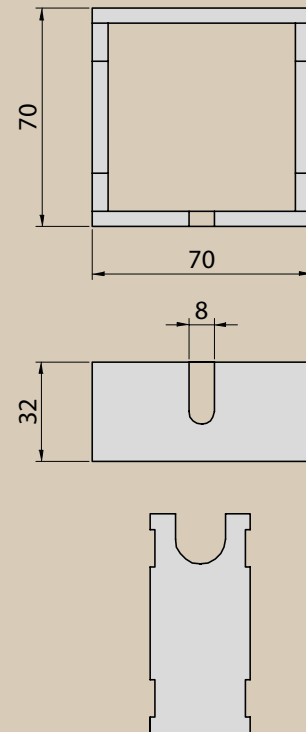
Mat.: Aluminium
Surface: vibratory ground
Packing: 10 pieces

For suspending supporting or ceiling profiles with suspended ceiling constructions



Insert suspension fitting

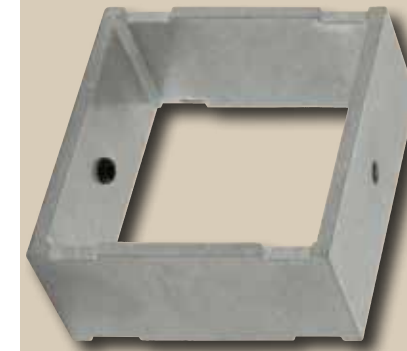
Ord. No.: 782.15.100



Insert connector

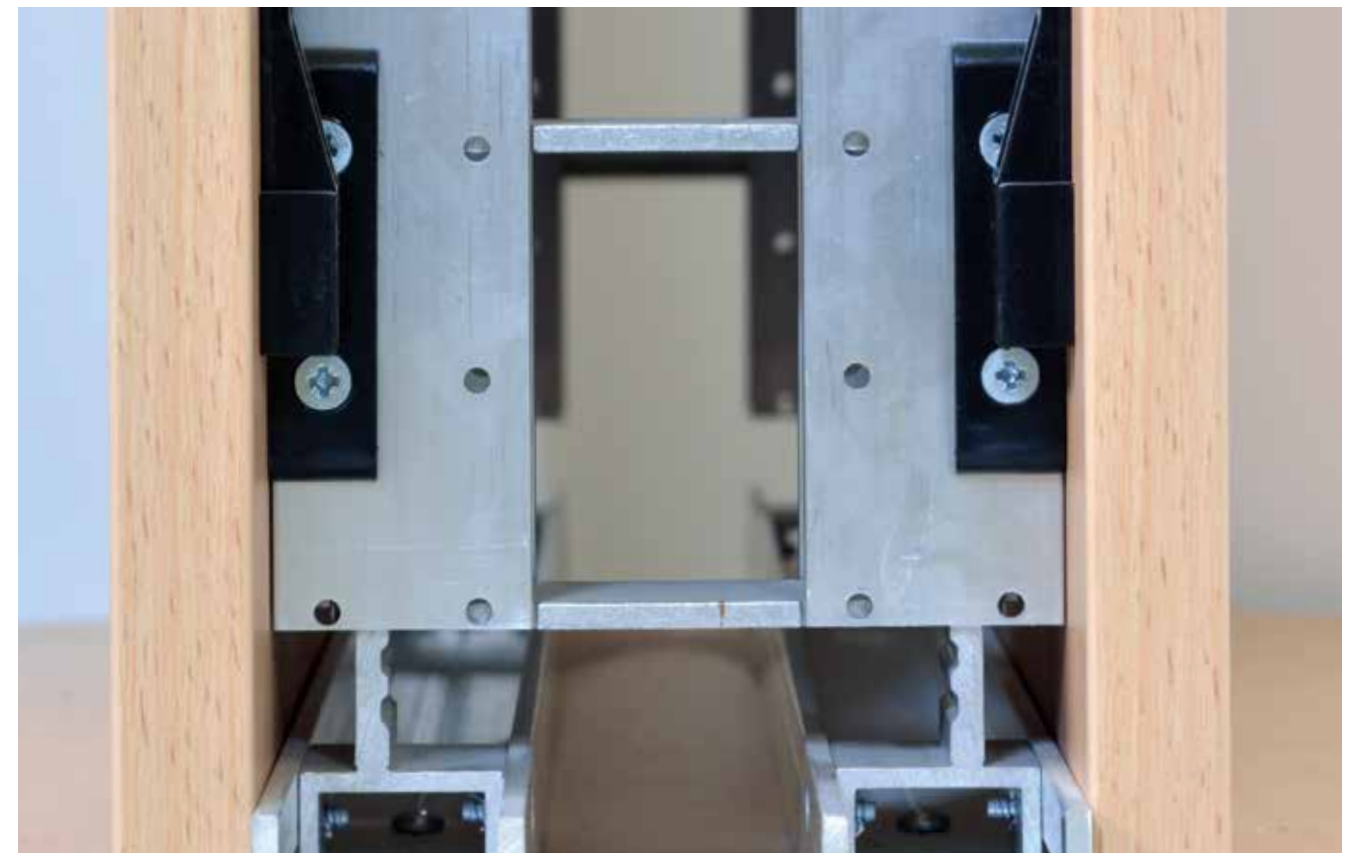
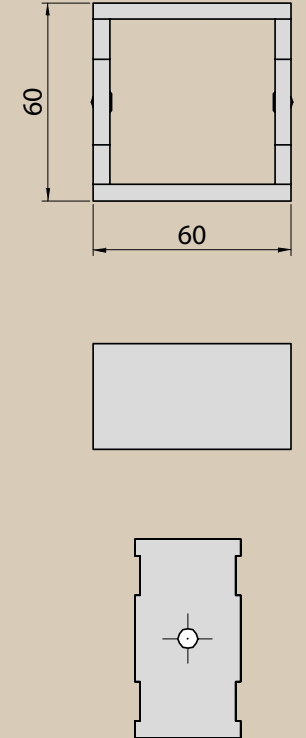
Mat.: Aluminium
Surface: vibratory ground
Packing: 10 pieces

For connecting supporting profiles to double stands 110 mm



Insert connector

Ord. No.: 782.15.110



Panel connector

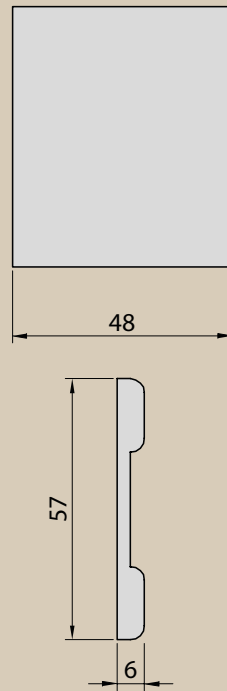
Mat.: Aluminium
Surface: vibratory ground
Packing: 10 pieces

For connecting panels



Panel connector

Ord. No.: 782.15.120



Elevating insert

Mat.: Aluminium
Surface: vibratory ground
Packing: 10 / 100 pieces

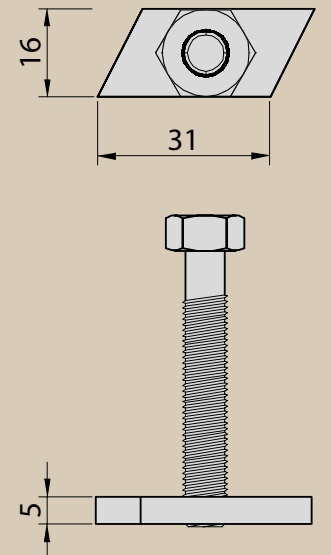
With steel screw M8 x 50 mm, chromated

For tensioning and height compensation of the supporting profiles



Elevating insert

Ord. No.: 782.16.000

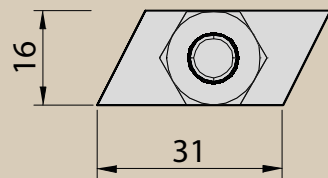
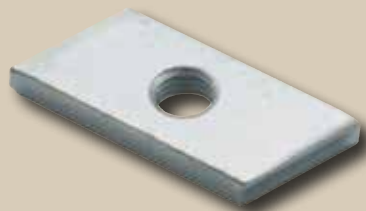


Keku® Room system

Slot nut

Mat.: Aluminium
Surface: vibratory ground
Packing: 100 pieces

For insertion into the groove of the supporting profiles in connection with threaded bolts and M8 screws



Slot nut

Ord. No.: 782.16.010



Keku® Room system

System screw

Mat.: Steel, galvanized
Packing: 100 pieces

DG 4x10 mm
With self-tapping thread, for all screw connections on the supporting profile



System screw

Ord. No.: 782.17.900



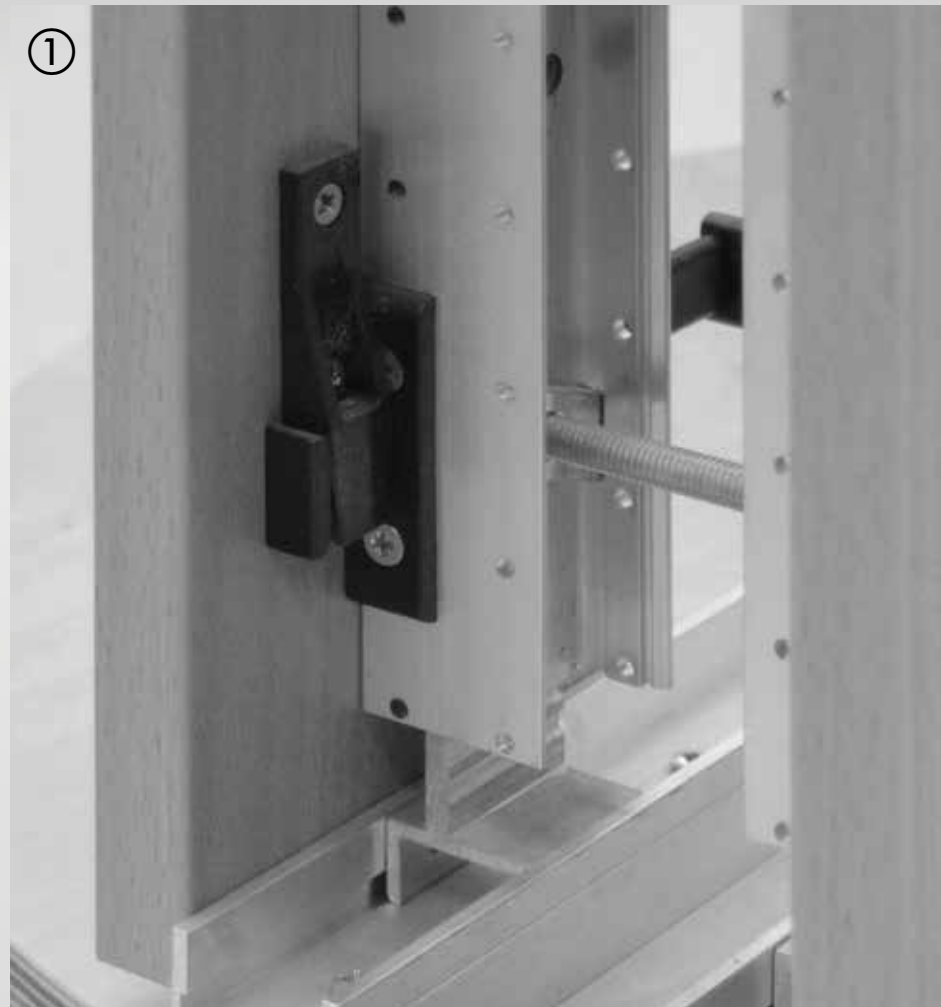
Fixing to supporting profile

The [supporting profile \(782.10.006\)](#), with a profile cross section of 36 x 36 mm, is equipped with a slotted hole in the centre bar (distance 64 mm) and is also accurately perforated at 32 mm intervals for accommodating the Keku® fittings. Furthermore, grooves in the profile provide a facility for holding accessories such as [elevating insert \(782.16.000\)](#) or [insert connectors \(782.15.110\)](#) with a positive fitting or for clipping in joint profiles, for example.

Accurate 32 mm interval

Areas of application:

- ① Hooked in panel, min. height lift 25 mm
- ② Slid-on panelling
- ③ Cross braces as installation aid
- ④ Inspection opening with Clipo-Top by Blum



Wall mounting

The [supporting profile \(782.10.006\)](#) can be fixed to the wall or ceiling in various ways. The type of fixing that is chosen depends on the nature of the wall or ceiling and the requirements that the cladding has to fulfil.

The type of fixing also depends on the different adjusting facilities that the individual fixing types provide. The fixing materials that are used are selected depending on requirements and suitability. Threaded rods must be used with lock nuts and U washers.

- ① Direct bolting
- ② With M8 threaded rods (020.80.908) and individual adjustment elements
- ③ With [3D Wall/ceiling fastener \(782.00.900\)](#), wall structure 40 - 50 mm
- ④ With [3D Wall spacer \(782.00.910\)](#) and appropriately long M8 threaded rods, wall structure from 60 mm

The 3D wall mounting/spacers provide simple adjustment in all directions and an adjusting range of ± 10 mm.



Floor connection

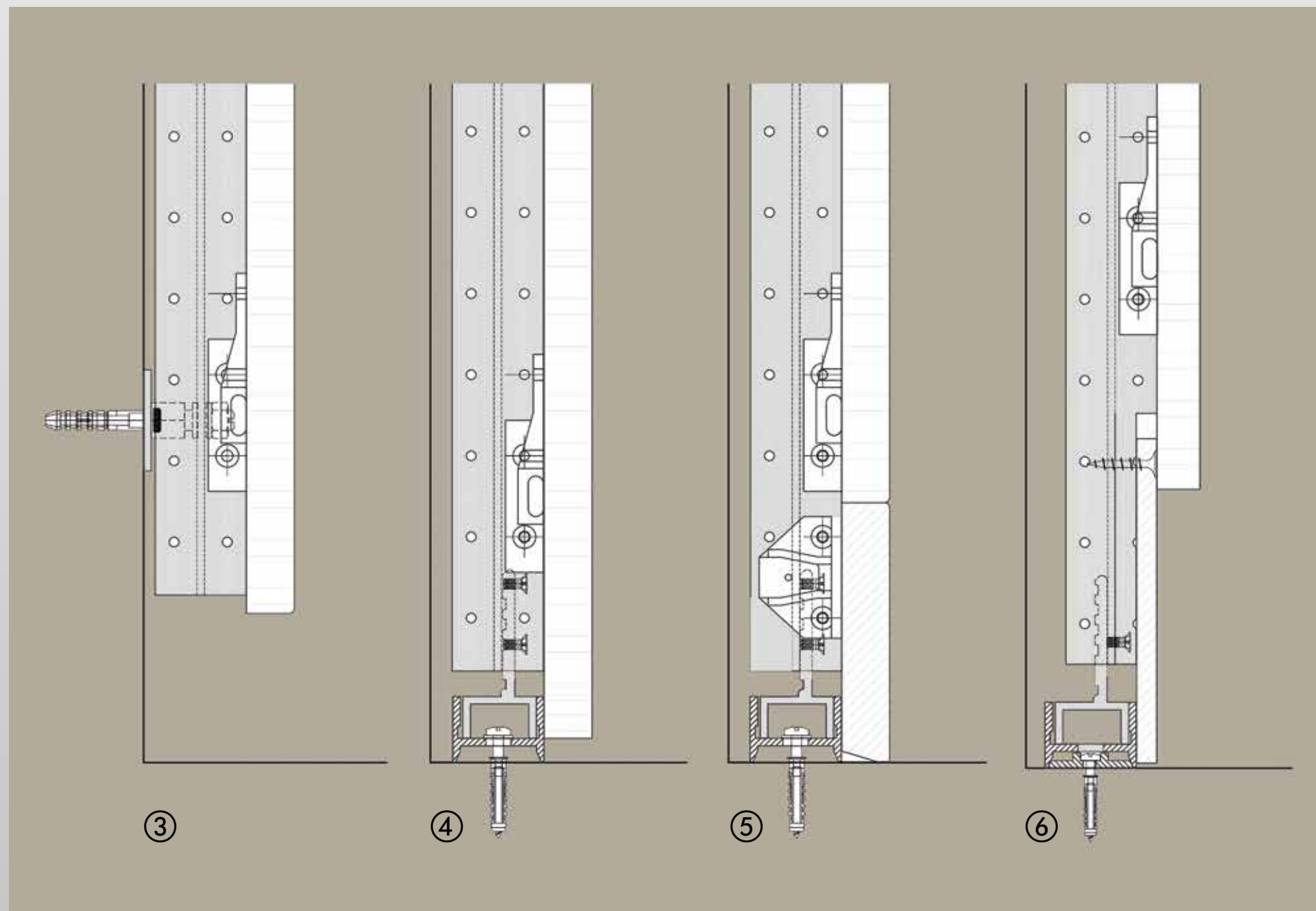
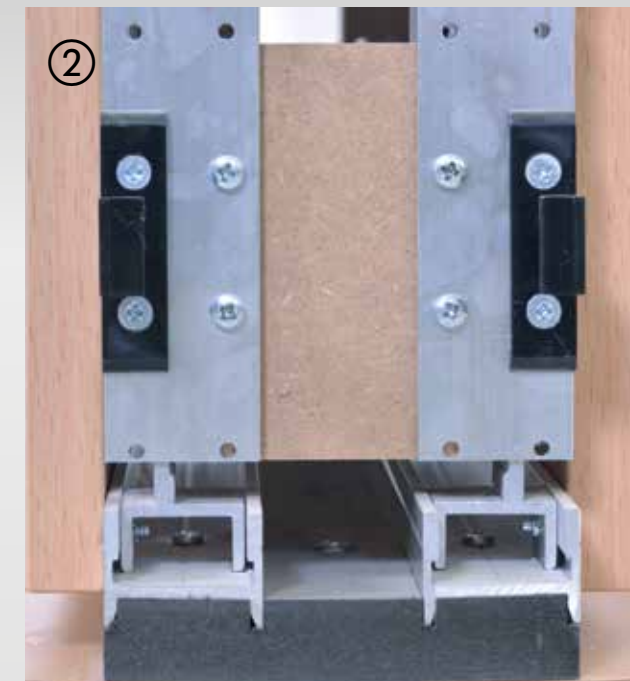
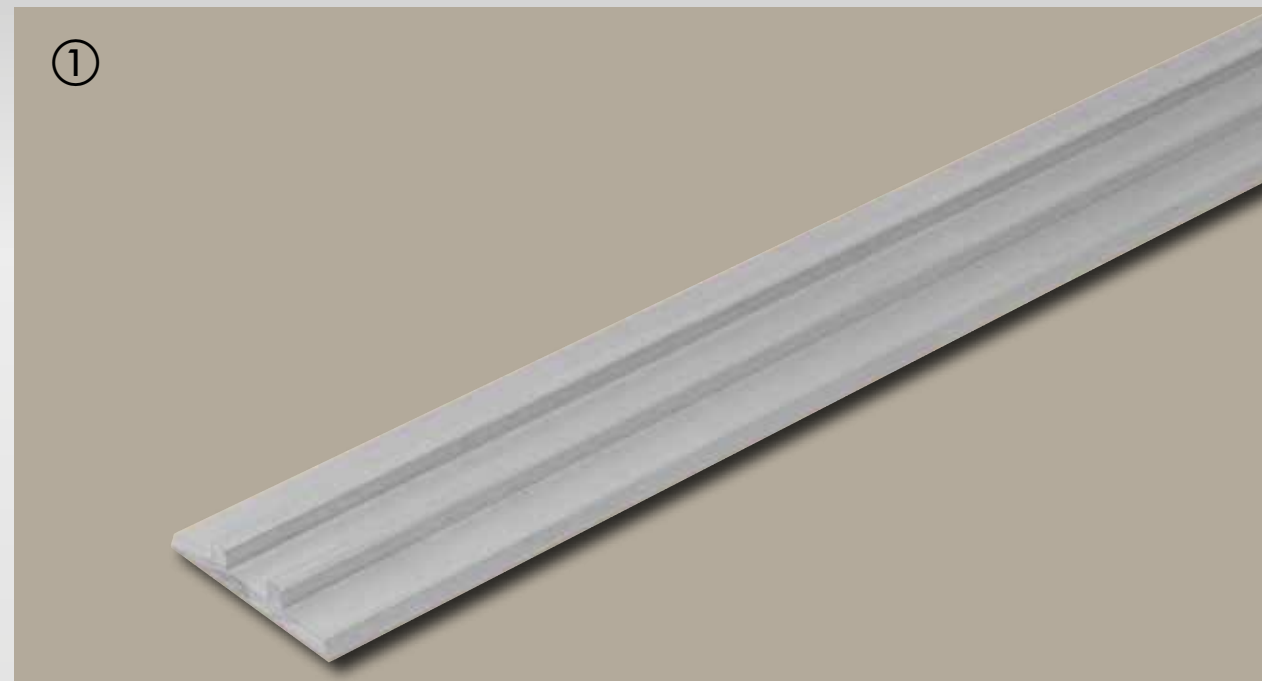
The floor connection can be made using various structures.

- ① Adjusting profile (782.12.003)
- ② Floor connection of a double-leaf partition wall
- ③ Without floor connection
- ④ With floor/ceiling profile (782.11.006) and profile connector (782.15.060)
- ⑤ With slid-on plinth panel
- ⑥ Special solution

The connection between the supporting profile (782.10.006) and the floor/ceiling profile (782.11.006) is made via the profile connectors (782.15.060).

The profile connectors are fitted to the bottom end of the supporting profiles and secured using the system screws (782.17.900). This makes height adjustment possible.

With double-leaf partition walls it is advisable to join the two floor/ceiling profiles together on a bottom board.

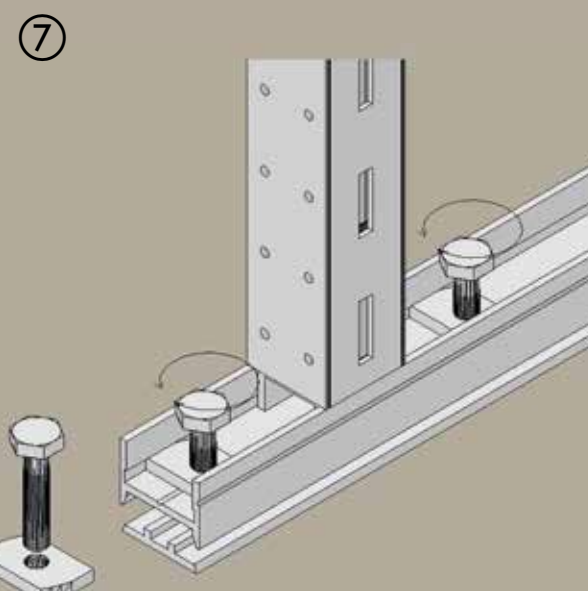
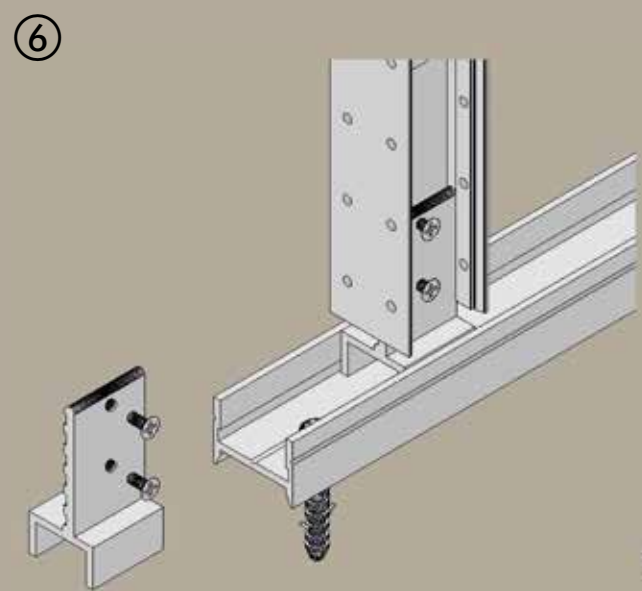
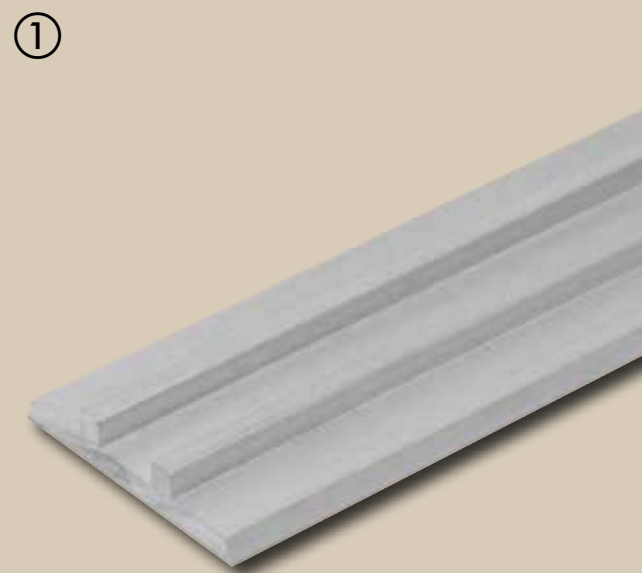


Height adjustment

The height of the [supporting profiles \(782.10.006\)](#) is adjusted via the [profile connector \(782.15.060\)](#) (②). This is pushed into the bottom end of the supporting profiles during prefabrication of the profiles and secured with the [system screw \(782.17.900\)](#). Height adjustment within the range of -10 to +20 mm is then possible.

The profile connector is led through the [floor/ceiling profile \(782.11.006\)](#) (③, ⑥) during installation. When EHS fittings are being used, side fixing of the supporting profiles is not required.

With [perforated joint profiles \(782.14.003\)](#) for accommodating brackets, the height is adjusted via the [elevating insert \(782.16.000\)](#) (⑧) and the [adjusting profile \(782.12.003\)](#) (①). To do this, a hole Ø10 mm is drilled in the floor/ceiling profile next to the supporting profile. The elevating insert is clamped in the floor profile in this position with the slot nut. Height compensation can now be carried out using the adjusting screw. The perforated joint profile remains supported (④, ⑤, ⑦).



Corner connections

The range of accessories of the Keku® room system includes four connecting elements with which 90° corner connections can be realised.

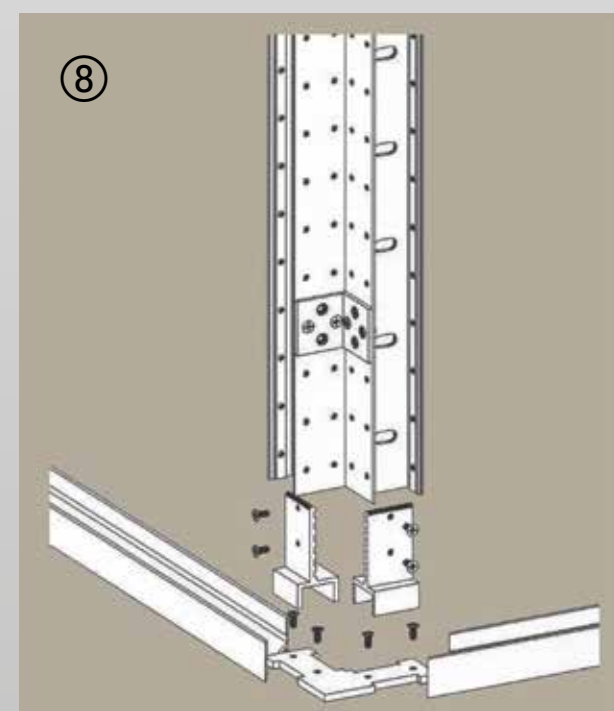
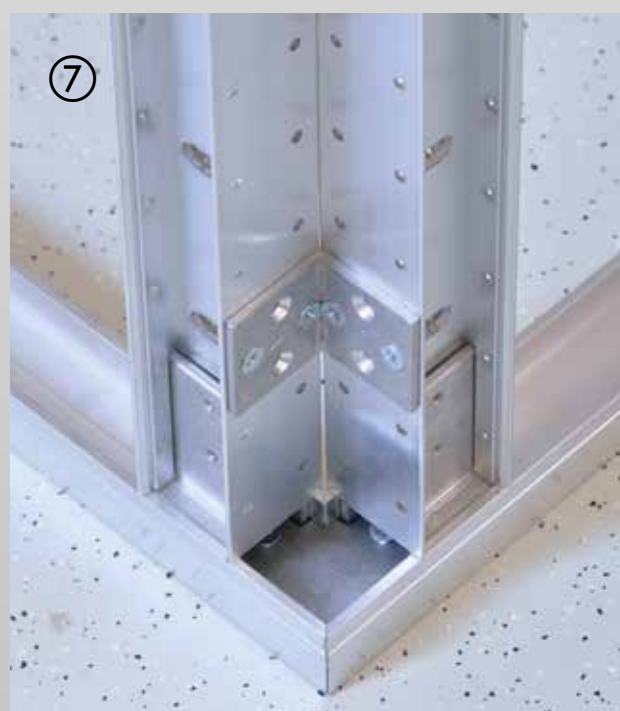
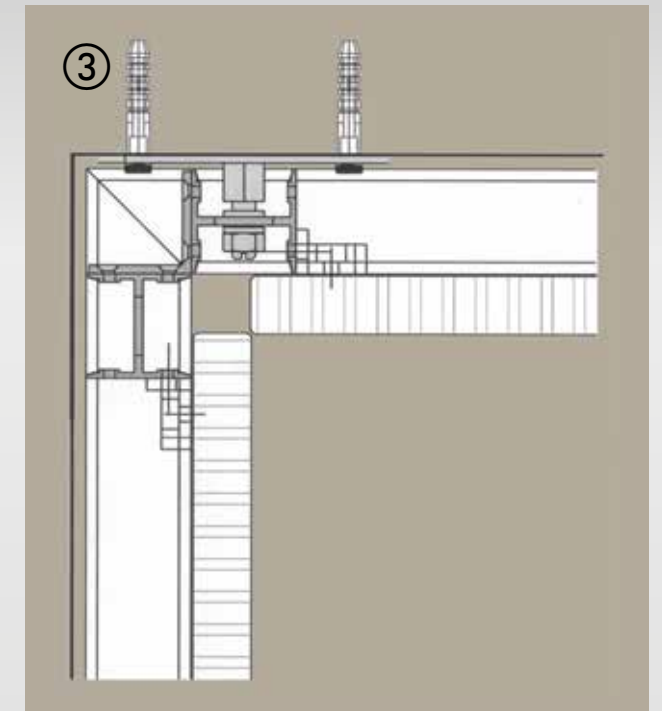
- Corner bracket (④) (782.15.080)
- Insert connector 50/50 (⑤) (782.15.070)
- Cross connector (⑨) (782.15.030)
- Mitre connector (②) (782.15.050)

The corner bracket is fitted to the [supporting profiles](#) (782.10.006) from the outside using [system screws](#) (782.17.900), and the 32 mm perforation of the profile corresponds with the holes in the corner bracket. In this way, two vertical supporting profiles can be joined together for a 90° room corner (③, ⑦, ⑧) or acts as a connecting element between the supporting profile and the cross strutting (①).

The 50/50 insert connector also provides 90° outlets from the supporting profile, but at the side of the slotted holes. The 50/50 insert connector is inserted into the grooves in the supporting profile and secured with system screws (⑥). The mounting position can be freely selected.

In order to make 90° outlets for frame structures, the cross connector is secured in the laterally running profile and screwed into the upright profile with system screws (⑨).

The mitre connector, which has punched holes for the [profile connectors](#) (782.15.060), can be used for floor, ceiling and supporting profiles and is inserted into the prefabricated grooves of the profiles in such a way that they will accommodate the supporting profiles for a 90° room corner (⑦, ⑧).



Connections

Insert connectors (782.15.110) (①) are inserted into the grooves of the supporting profiles (782.10.006) and fixed in place with threaded bolts. The connected profiles therefore form a 110 mm wide supporting element for partition wall constructions (③).

Many possibilities which can occasionally be realised in your own manufacturing facilities are particularly plausible when partition walls are being connected. For example, connecting strips of panel material (④) or shortened threaded rods can be used (②), in order to provide a secure connection between elements.



Joints

In order to place something behind the panel joints, the [supporting profiles \(782.10.006\)](#) are equipped with aluminium [joint profiles \(782.13.003\)](#). The profiles can be anodised and re-lacquered. Joint profiles with suitable decoration can be manufactured from 4 mm panel material in-house and clipped in. Joint widths up to 30 mm are possible (①).

A [horizontal joint profile \(782.14.010\)](#) is available for horizontal joints up to 30 mm wide (③). This is fixed to the panel using Keku® AS fittings.

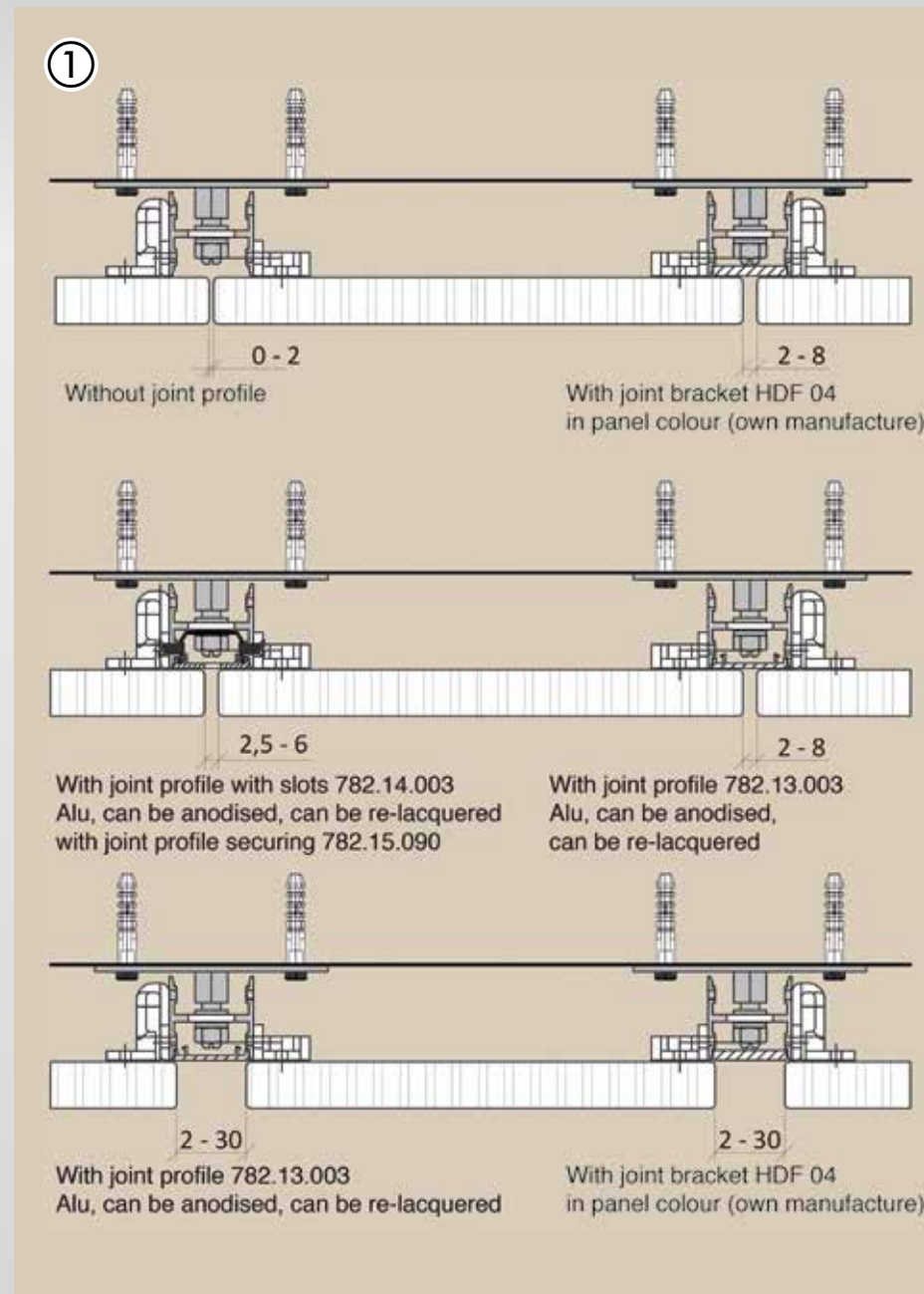
[Joint profiles with slots \(782.14.003\)](#) are deployed for using brackets. These must be additionally equipped with [joint profile securing clips \(782.15.090\)](#) and secured in the supporting profile (see also page 26/27). The securing clips must be located in vicinity of the brackets.

Joint width for single brackets 2.5 mm.

Joint width for double brackets 5.0 mm.

The following profiles are available for finishing the joints:

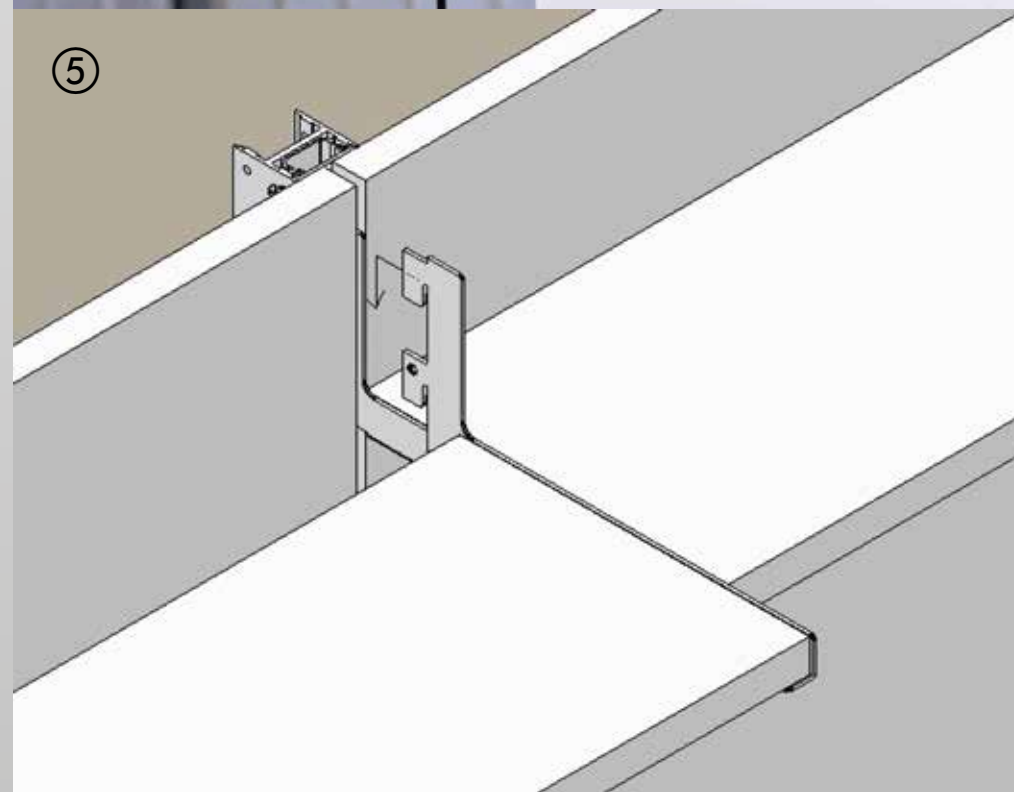
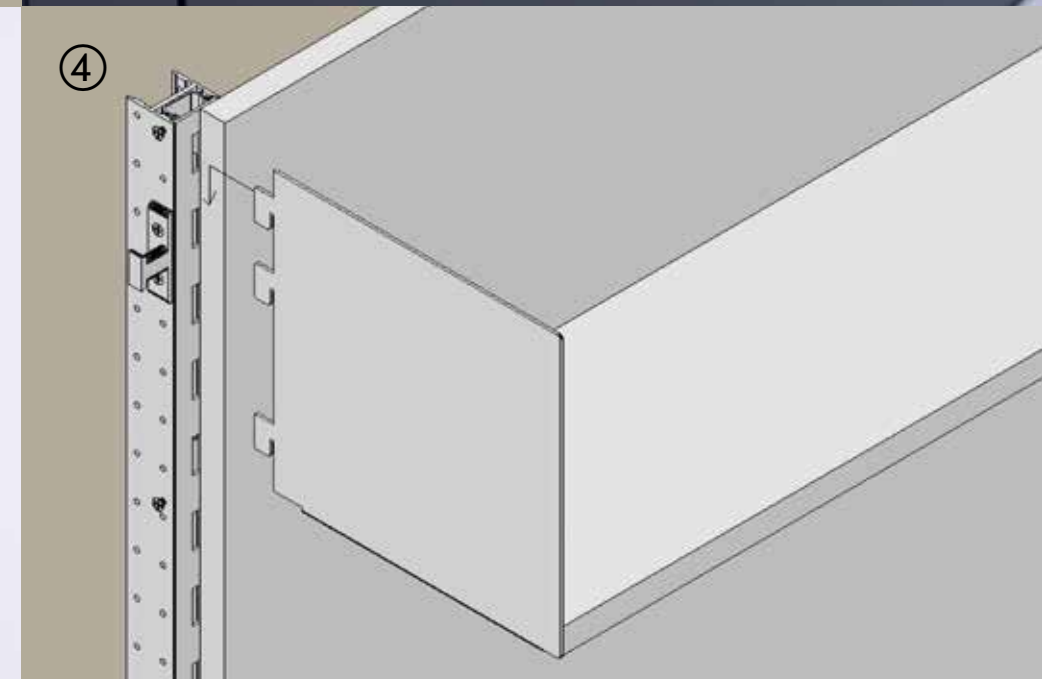
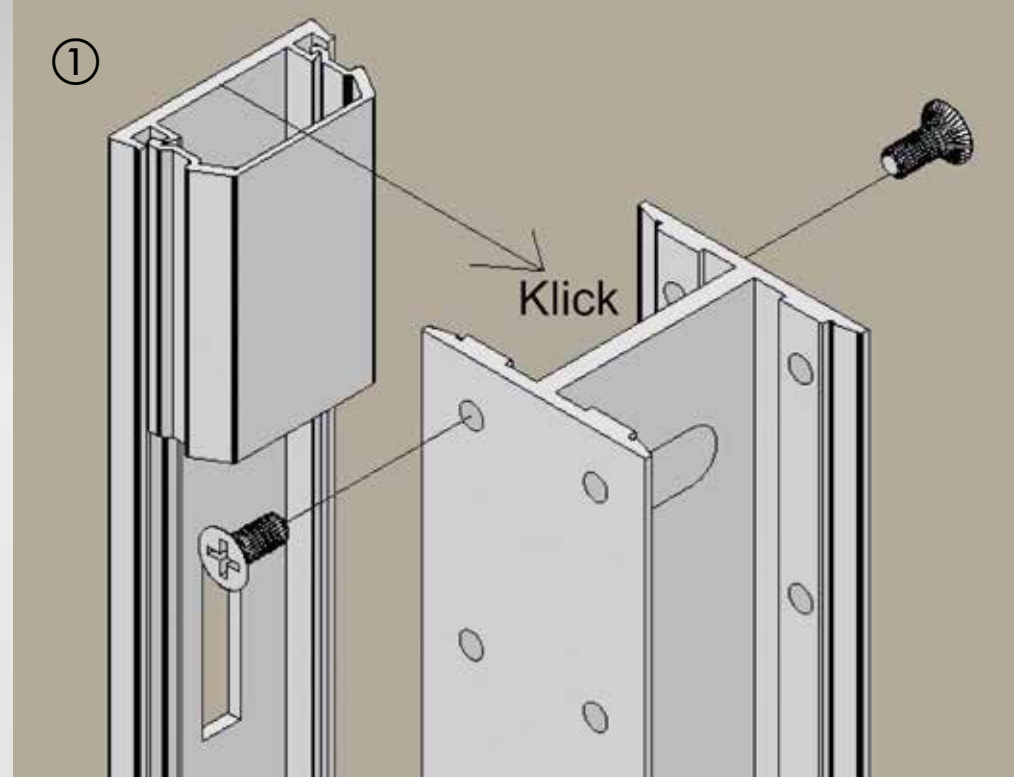
- Joint profile, aluminium, bright (can be anodised) (④), for clipping into the supporting profile.
- Joint profile, perforated, aluminium, bright (can be anodised) (⑤), for clipping into the supporting profile with an additional joint profile securing clip. For hooking into brackets with 50 mm hole intervals (shopfitting standard).
- Joint profile, horizontal, aluminium, bright (can be anodised) (③), for putting behind horizontal panel joints.
- Joint profile made from sheet material (manufactured in-house, 31.2 mm wide, 4 mm thick), suitable for the panels (②, ⑥), zum for clipping into the supporting profile.



Brackets for 50 mm hole intervals

Joint profiles with holes (782.14.003) make it possible to use bracket shelving, book brackets and cabinet fixing brackets.

- ① The joint profile securing clips (782.15.090) must be adjusted in the relevant locations in the joint profiles and secured using system screws (782.17.900) during fitting to the supporting profile.
The brackets are suitable for shopfitting systems at height intervals of 50 mm.
- ② Hook-in brackets
- ③ Book brackets
- ④ Hook in book bracket
- ⑤ Two brackets at the same height required a joint width of 5 mm
- ⑥ Cabinet fixing brackets



Suspensions

The following fittings are available for suspended ceilings or false ceilings

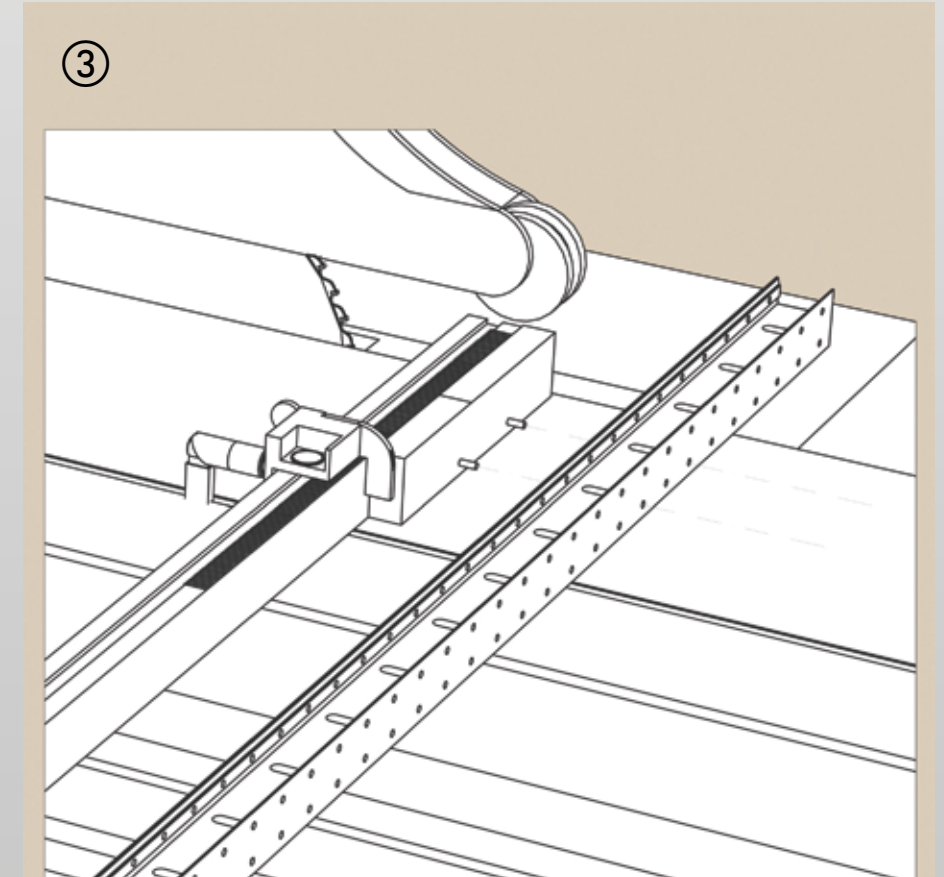
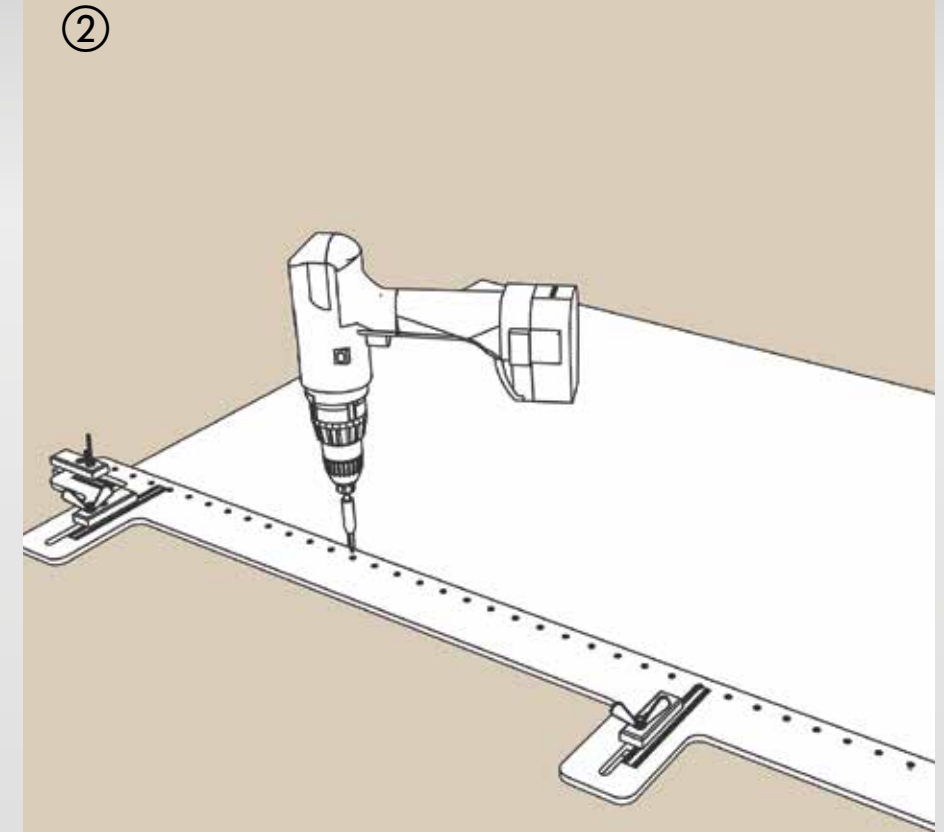
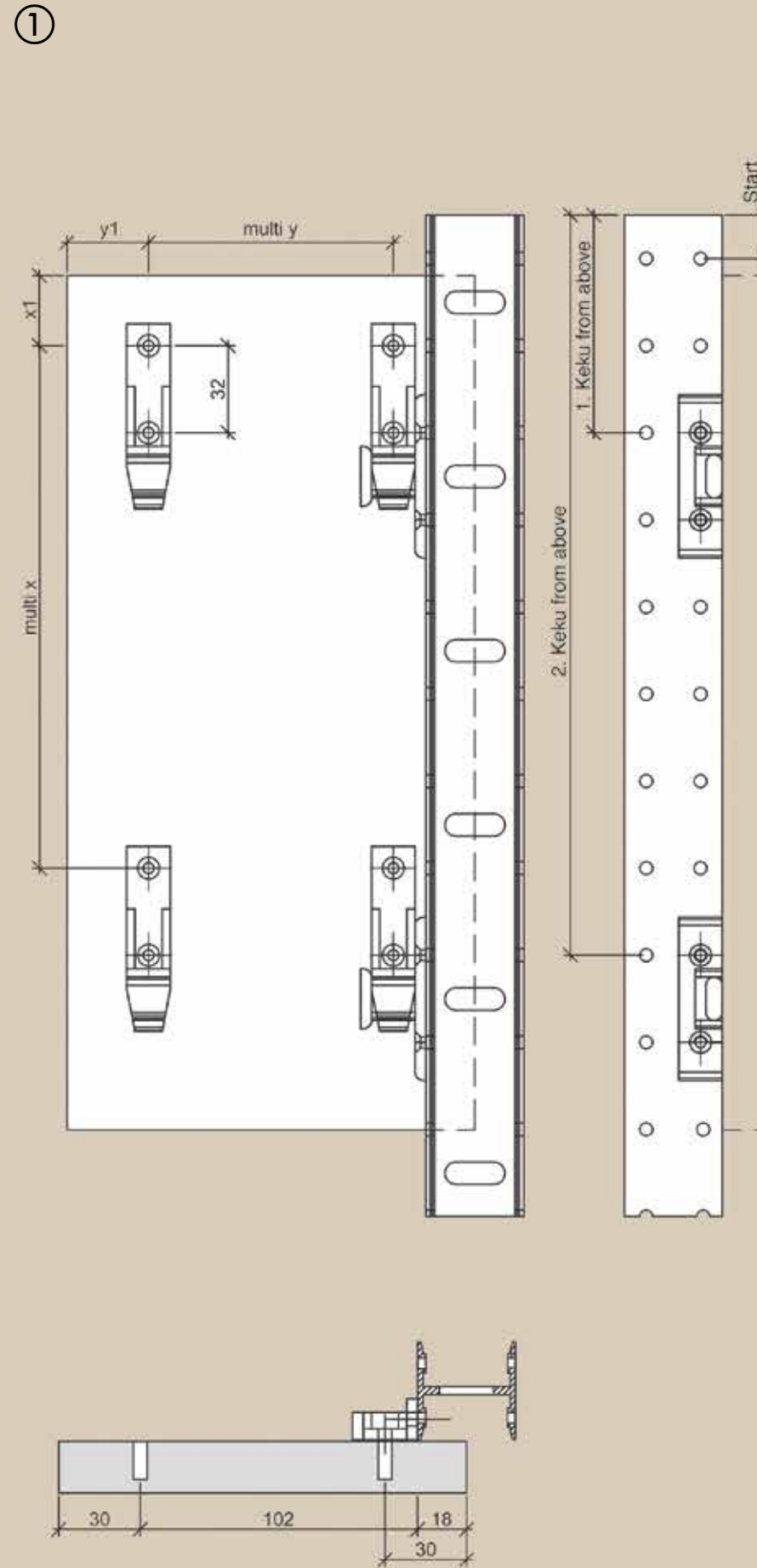
- [3D Wall/ceiling fastener \(782.00.900\)](#)
Construction height 40 - 50 mm
- [3D Wall spacer \(782.00.910\)](#)
With threaded rods of any length
- [Insert suspension fittings \(782.15.100\)](#),
construction height from 150 mm

- ① Threaded rods M8 (020.80.908) screwed into the concrete ceiling with suitable and approved dowels and secured in the slotted holes of the [supporting profiles \(782.10.006\)](#) with nuts and U washers.
- ② 3D Wall spacers with M8 threaded rod of any length and lock nuts, screwed to the ceiling and secured to the supporting profile.
- ③ Inspection panel with anti-fall protection.
- ④ With wall spacer and [insert suspension fitting \(782.15.100\)](#).
The insert suspension fitting can be pushed into the supporting profile in any position.
- ⑤ With 2 insert suspension fittings, M8 threaded bar of any length and [floor/ceiling profile \(782.11.006\)](#) as "cross sectioning".
- ⑥ In order to bridge areas that cannot be screwed into or building management systems, supporting elements can be used. Supporting elements consists of 2 supporting profiles which are screwed to binding structures with [insert connectors \(782.15.110\)](#), threaded rods or aluminium struts.



Processing

- ① The holes for the Keku® panel components can be determined using a drilling template or directly through the applied supporting profile.
Drilling on a machining centre is rational.
A calculation table is helpful if there are many different panel dimensions.
- ② Suggestion for a drilling template
Material solid core panel, 8 mm, or aluminium sheet metal 5 mm.
3 mm holes, countersunk on both sides. At intervals of 32 mm
Sliding fittings for start measurement (X) and edge distance (Y).
3 mm centring drill for Hospa screws M4x17.
- ③ The series-drilled holes in the supporting profiles must have the same start measurement so that the Keku® fittings are in exactly the same position.
This is ensured by an auxiliary stop with guide bolt secured at the lateral stop of the format circular saw or secured in the guide of the saw carriage.
Set the start measurement, slide on the supporting profile and cut to length.



Keku®

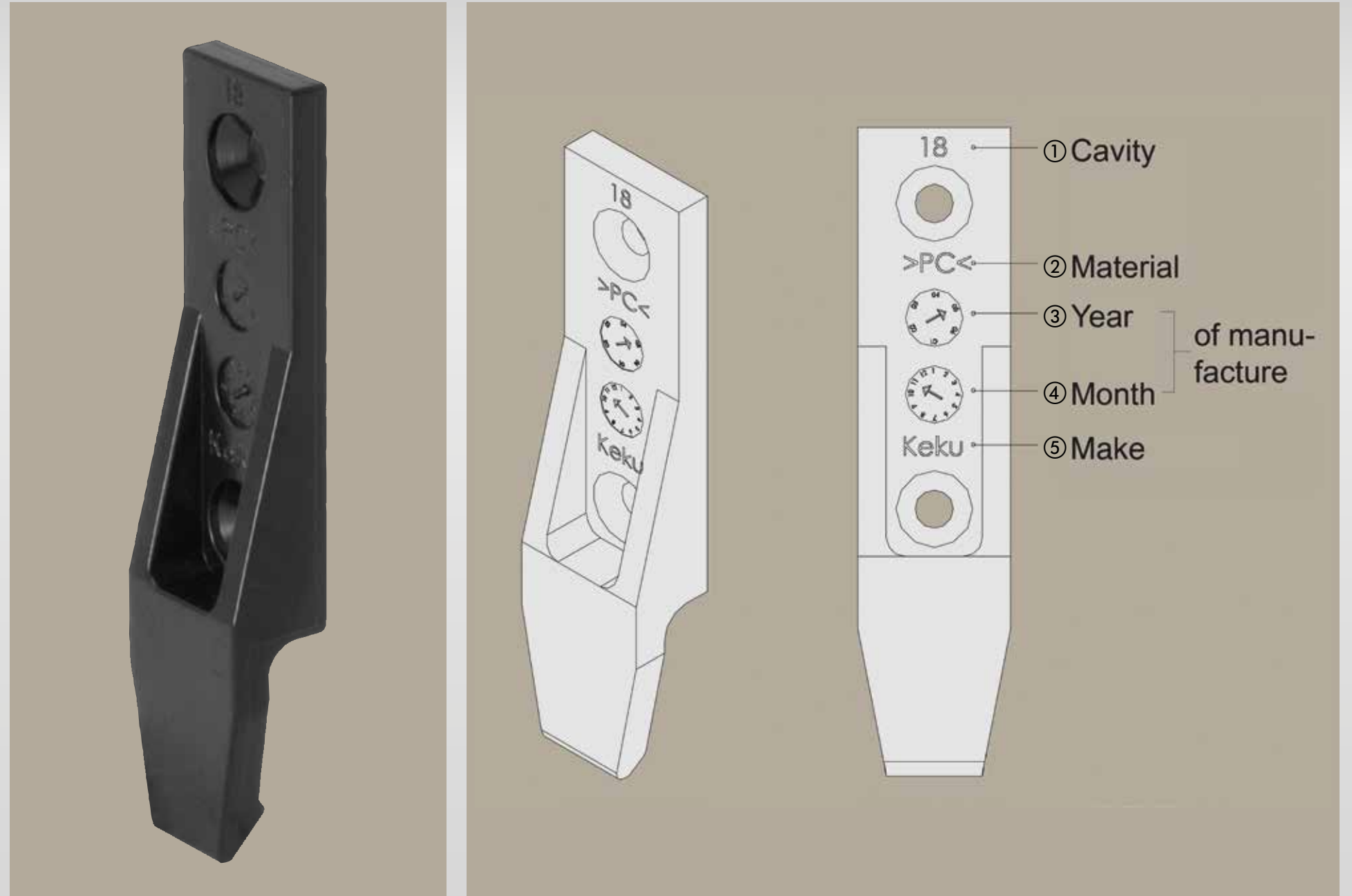
Quality assurance

The authenticity of our fittings, which are protected by trade mark, can be verified by the following markings:

Cavity, material, year of manufacture, month of manufacture and make

The basic material for the Keku® suspension, slide-on and double partition fittings is a polycarbonate (PC).

- A certified quality assurance system monitors all manufacturing processes.
- A structural FEM calculation confirms that the assemblies have been made using the material that we have specified.
- The Keku® fittings and the Keku® R room system fulfil all requirements of the latest version of the REACH and RoHs legislation.
- The legal SCCP limit - short chain chlorinated paraffins - is complied with.



Ceiling load table

The Keku® **Hospa** fittings

262.49.365, 262.49.360, 262.49. 367, 262.49. 356, 262.49. 350, 262.49. 358, 262.49. 369, 262.50.368,
262.50.390, 262.50. 359, 262.51.380, 262.51.390

may only be processed with the following screws:

System screw DG 4x10mm (782.17.900) or chipboard screws countersunk head D = 4 mm

The Keku® **Variant**a fittings

262.49.366, 262.49.368, 262.49.357, 262.49.351, 262.49.359, 262.49.370, 262.50.377, 262.50.391,
262.50.358, 262.51.381, 262.51.391

may only be processed with the following screws:

Varianța special screw, countersunk head $D = 5 \text{ mm}$

Table 1

Fixing of ceiling panels with

Keku suspension fittings

Spacing of EHS frame components on aluminium support profile No. 782.10.006

Aufgehell!
Dipl.-Ing. Klaus Gint
Hutberger-Waldweg 3
58513 Lüdenscheid

The permissible load per fitting is 8kg. With the distances specified below, each fitting bears approx. the same load.
The reference point of each fixing is the centre of the EH or EHS frame component. Intermediate values can be interpolated.

Panel length (mm)	2 x 2 fixings Perm.panel weight = 32 kg			2 x 3 fixings Perm.panel weight = 48 kg				2 x 4 fixings Perm.panel weight = 64 kg					2 x 5 fixings Perm.panel weight = 80 kg					
640	64	512	64															
768	64	640	64															
896	64	768	64															
1024	96	832	96	128	384	384	128											
1152	160	832	160	160	416	416	160											
1344				192	480	480	160											
1536				224	544	544	224	160	384	448	384	160						
1728				256	608	608	256	192	416	512	416	192						
1920				288	672	672	288	256	448	512	448	256	192	384	384	384	384	192
2176				320	768	768	320	256	512	640	512	256	192	416	480	480	416	192
2368								288	544	704	544	288	224	480	480	480	480	224
2624								320	608	768	608	320	224	544	544	544	544	224
2816								352	672	768	672	352	256	576	576	576	576	256
3072													288	608	640	640	608	288
3200													288	672	640	640	672	288

Ceiling area from above

Data sheet: Suspended ceiling

Standard values as per factory specification

Ceiling panel

Material: MB board 19 mm
Weight: 13.3kg (700kg/cbm)
Dimensions: 1000 x 1000 x 19 mm

Installation

Fitting type: Keku EH panel component Varianta (suspension fitting with lip 262.49.357)
Load values: 8kg per fitting with ceiling panelling
Screw fitting: Varianta screw 6.2 x 13.5 mm / Spax 4 x 20 mm
Pull-out resistance: Varianta / Spax >30 kg (MB board 19 mm)

Sub-construction Keku R

Material: Aluminium T 66
Dimensions: H-profile 6 metres 36 x 36 mm
Ceiling installation: Threaded bolt M8 with approved, suitable compact dowels (not included in scope of delivery)

Screw fixing to support profile with M8 nuts and U-washers. The permissible load of the screw fixing to the support profile is 50kg. (Threaded bolts and nuts not included in scope of delivery)

Fitting type: Keku EH frame component Hospa (suspension fitting with lateral guide 262.49.367)
Tensile load, vertical: 8kg per fitting with ceiling panelling
Screw fitting: DG screw 4 x 10 mm (782.17.90) System screws are mandatory for screw fixing the Keku fittings to the support profile.
Pull-out resistance: DG screw >40 kg

The width of the ceiling panel depends on:
 Panel characteristics (pag)
 Screw fixing strength of panel material
 (pay attention to the panel manufacturer's information)
 Use centre profile if necessary

Do not treat Keku fittings with chemical solutions and aggressive greases
 Do not adjust by hammering
 Use at least 4 Keku fittings per panel
 Select dowels and fixing materials in accordance with the respective requirements
 Pay attention to the panel manufacturer's information
 Pay attention to tensile load table
 Carry out screw fixing tests if necessary

Kusanke
 BESCHLAGTECHNIK

Fon: 02351.95080
 Fax: 02351.950820
 Info@keku.de
 www.keku.de

Data sheet

Suspended ceiling
 12.04.2016

Roomsystem Keku R

Gezeichnet:

M.:


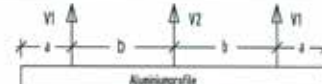
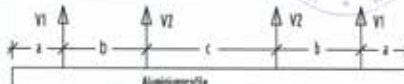
Keku
 SIMPLY PERFECT

Table 2

Suspension Keku aluminium support profile No. 782.10.006

Aufgestellt:
Dipl.-Ing. Klaus Günt
Hulsberger Waldweg 3
58513 Lüdenscheid

Explanation of table information: The reference point of each suspension fitting is the centre of the hole in the bar of the aluminium profile.
Panel weight = permissible sum total of panel weights on length of aluminium profile. Sag = sag of aluminium profile
The subsurface for fixing the suspension fittings must be checked for sufficient load bearing capacity by the company carrying out the work.

Aluminium profile length (mm)	 2 Suspension fittings						 3 Suspension fittings						 4 Suspension fittings						
	Spacing (mm)		Suspension fitting (kg)		Panel weight (kg)	Sag (mm)	Spacing (mm)		Suspension fitting (kg)		Panel weight (kg)	Sag (mm)	Spacing (mm)		Suspension fitting (kg)		Panel weight (kg)	Sag (mm)	
	a	b	V1	V2			a	b	V1	V2			a	b	c	V1	V2		
1152	96	960	24	24	48	2.9													
1472	160	1152	24	24	48	6.4	96	640	12	26	50	0.3							
1792	224	1344	24	24	48	8.7	128	768	18	34	70	0.8							
2112	256	1600	24	24	48	14.2	224	832	26	44	96	0.8							
2432							256	960	26	44	96	1.2							
2752							288	1088	26	44	96	1.5							
3072							288	1248	25	46	96	2.7	160	896	960	23	42	130	1.0
3392							288	1408	24	48	96	4.2	160	960	1152	21	44	130	1.2
3712													224	1088	1088	24	41	130	2.3
4032													224	1152	1280	23	42	130	2.4
4352													288	1216	1344	24	41	130	2.5
4672													288	1344	1408	24	41	130	3.8
4992													352	1408	1472	31	49	160	4.3
5312													352	1536	1536	24	41	130	5.3
5652													352	1728	1792	23	42	130	8.5

Technical data

EH and EHS suspension fitting,
AS and ASR slide-on fitting,
AD 15 and AD 30 double partition fitting

The fire class of the components depends on the materials of the processed panelling and cladding materials. The Keku® R aluminium room system is regarded as not flammable. Fire class A

According to a uniform statement from the material testing institutes, fittings must generally only be assessed with regard to fire resistance in accordance with DIN 4102 in the installed condition and in connection with a component.

This means that the Keku® fittings are also not tested as individual components in the non-installed condition and are not regarded as materials such as the sub-construction or the panelling and finishing material, which is evaluated in accordance with fire protection class A1, A2 (not flammable) or B1 (hardly inflammable), B2 (normally inflammable) or B3 (easily flammable).

Please note the processing instructions and technical values. We will gladly provide load tables and data sheets for you.

The processing of the Keku® system requires conscientious, skilful handling. Trial assemblies are recommended for special loads and unusual designs. Persons unfamiliar with the trade and maintenance personnel must be provided with instruction about the handling of the inspection panels.

EH panel component
EH frame component
EHS frame component

Keku® fittings are made of polycarbonate (PC). The production of the fittings is subjected to continuous quality control. Individual fitting components resist tension and compression forces of 300 N in all directions.

The maximum load capacity of a pair of fittings in the following applications is:

For vertical suspension in (e.g. wall panels): 20 kg

For horizontal application, lying (e.g. pedestal panels): 30 kg

For horizontal applications, hanging (e.g. ceiling panels): 8 kg

At least 4 pairs of fittings are required when hanging a rectangular panel. The spacing depends on the panel thickness as well as the arrangement of attachment points and should not exceed 600 mm. For uniform distribution of the load, the fittings must be positioned precisely.

Regarding the number of different applications, we recommend that the worker performs a trial assembly. Load carrying plastic fittings should not be treated with chemical solutions or aggressive greases.

The data sheets, load tables and technical values can be downloaded from www.keku.de.

AS panel component
AS frame component
ASR frame component

Keku® fittings are made of polycarbonate (PC). The production of the fittings is subjected to continuous quality control. Individual fitting components resist tension and compression forces of 300 N in all directions.

The maximum load capacity of a pair of fittings in the following applications is 20 kg. These values are not valid for the coupling effect of AS and ASR push-in fittings.

These push-in fittings are not for hanging loads e.g. ceiling tiles.

At least 4 pairs of fittings are required when hanging a rectangular panel. The spacing depends on the panel thickness as well as the arrangement of attachment points and should not exceed 600 mm.

For uniform distribution of the load, the fittings must be positioned precisely. Regarding the number of different applications, we recommend that the worker performs a trial assembly.

Load carrying plastic fittings should not be treated with chemical solutions or aggressive greases. The processing parameters contained in the Häfele catalogue must be observed.

EH panel component
AD 15 angle component
AD 30 angle component

Keku® fittings are made of polycarbonate (PC). The production of the fittings is subjected to continuous quality control. Individual fitting components resist tension and compression forces of 300 N in all directions. The maximum load capacity of a pair of fittings in the following applications is 20 kg.

At least 4 pairs of fittings are required when doubling up and connecting panels. When coupling elements the distance between fittings should be approx. 600 mm. For uniform distribution of the load, the fittings must be positioned precisely.

Regarding the number of different applications, we recommend that the worker performs a trial assembly.

Load carrying plastic fittings should not be treated with chemical solutions or aggressive greases. The processing parameters contained in the Häfele catalogue must be observed.

Keku® Fitting and room system

References

Object	Applications with Keku® R room system	Design
Firma LEITZ, Oberkochen	Messestand auf LIGNA in Hannover: Präsentationsräume, Stellwände	CD . 3D Communications Design Baumhauer Dorfstraße 10 8430 Weisslingen/ Schweiz
Firma LEITZ, Oberkochen	Messestand auf der METAV in Düsseldorf: Besprechungsräume, Medien- Wandscheibe	CD . 3D Communications Design KUSANKE Einrichtungen
Firma AUDI, Ingolstadt	Messestand auf dem Autosalon in Genf 1995: Treppenhäuser, Standwände, Wandelemente	Architekten Schmidhuber & Partner Nederlinger Straße 21 80628 München KUSANKE Einrichtungen
Firma AUDI, Ingolstadt	Messestand auf der IAA in Frankfurt/Main 1995 Standwände, Wandelemente, Treppenhaus	Architekten Schmidhuber & Partner Nederlinger Straße 21 80628 München KUSANKE Einrichtungen
Polizeipräsidium Duisburg	Leitstelle der Direktion Nord: Unterkonstruktionen für verschieb- bare Wandtafeln, Abhängung für Schiebetafeln	Bau- und Liegenschaftsamt NRW Duisburg
Bezirksregierung Arnsberg	Leitstellen der Polizei: Abhängungen für verschiebbare Wandtafeln	Bau- und Liegenschaftsamt NRW Arnsberg
Neubau Verwaltungszentrum in Magdeburg, GbR Magdeburg Süd	Wandverkleidungen, Heizkörperver- kleidungen, Medienbereiche Parkräume für Schiebelelemente	Innenausbau Gruppe Wissmann GmbH Marellenkämpfe 6 456514 Schermbeck
Stadtparkasse Wuppertal	Neubau Verwaltungshochhaus Islandufer: Unterkonstruktionen für Wandverkleidungen, Trennwände, Abschottungen, Deckenspiegel,	Frau Professor Ellen Birkelbach Erkrather Straße 42329 Wuppertal Innenarchitekten Filter + Filter Moltkeplatz 1 47877 Willich

Object	Applications with Keku® R room system	Design
Stadtparkasse Wuppertal	Garderobenanlagen: Unterkonstruktionen für Wandverkleidungen, Abschottungen	Architekten RKW Rode, Kellermann, Wawrowsky + Partner Tersteegenstraße 30 40477 Düsseldorf
HÄFELE America	Ausstellungsraum in San Francisco - Messetürme -	Häfele America KUSANKE Einrichtungen
Firma De CLERCK BVBA, Belgien	Kredietbank DEURNE, Belgien: Wandverkleidungen	Häfele Verkaufsbüro Belgien Herr D. Hong
Firma AUDI, Ingolstadt	Messestand auf der IAA 1997 in Frankfurt/Main Standwände, Wandverkleidungen Funktionswände	Architekten Schmidhuber & Partner München Ausführungsplanung: KUSANKE Einrichtungen
Firma AUDI, Ingolstadt	Messestand Autosalon GENF 1995, 1996, 1998, 1999 Standwände, Wandverkleidungen Funktionswände	Architekten Schmidhuber & Partner München Ausführungsplanung: KUSANKE Einrichtungen
RWE – Hochhaus VR	Essen, Opernplatz Umbau – Innenausbau von 4 Sitzungsräumen Schallhemmende Wandverkleidungen Türen, Medienräume – und Anlagen	HOCHTIEF Hauptniederlassung Rhein-Ruhr Werkplanung KUSANKE Einrichtungen
Freie Ev. Kirchengemeinde	Mühlheim Bühnenanlage Stoffbespannte Schiebewände	Architekten Filter und Filter, Willich
Fachhochschule Gelsenkirchen	Wandverkleidungen	Werkstätten Dickerhoff, Bochum
Firma ATHMER	Raumteilende Trennwände mit verstellbaren Ablagen	Werkstätten Dickerhoff, Bochum
Vodafone – Mannesmann AG	Behrensbau Düsseldorf - Vorstandsetage - Schrankeinbauten mit reversiblen Blenden für die Haustechnik Medienwände	Architekten RKW Rode, Kellermann, Wawrowsky + Partner Tersteegenstraße 30 40477 Düsseldorf
HÄFELE Nagold	INTERZUM 2001 Köln DIALOCK-Haus Standwände Deckenraster	CD . 3D Communications Design Baumhauer CH-8430 Weisslingen Ausführungsplanung: KUSANKE Einrichtungen
HÄFELE Italia	Showroom in Lentate Trennwände, Funktionswände	CD . 3D Communications Design Baumhauer CH-8340 Weisslingen Ausführungsplanung KUSANKE Einrichtungen



Object	Applications with Keku® R room system	Design
Kongress-Zentrum Bochum	Wandverkleidungen mit Dämm- einlagen Funktionswände	Schweger + Partner Architekten Hamburg Ausführung: Tischlerei Gehlen GmbH Kamen
DURABLE Werke Kamen und Iserlohn	Wandverkleidungen	Dipl.Ing. Ulrich Kusanke KUSANKE Einrichtungen
Haus der Ärzteschaft Düsseldorf	Wand- und Deckenverkleidung Saal Wand- und Deckenverkleidung Bürobox Verkleidungen mit Aluminium-Paneelen und Bambus-Elementen	Architekten RKW Düsseldorf ABB Projektmanagement Ausführungsplanung: KUSANKE Einrichtungen
Haus der Ärzteschaft Düsseldorf	Stelen	Architekten RKW Düsseldorf Ausführungsplanung: KUSANKE Einrichtungen
HÄFELE Taiwan	Showroom Trennwände und Türanlagen	Ausführungsplanung: KUSANKE Einrichtungen
VODAFONE Düsseldorf	Showroom 1. OG Demowand Wandverkleidungen Schiebewand-Konstruktionen	Architekten Pappa und Filter Ausführungsplanung: KUSANKE Einrichtungen
WDR – Studio Siegen Sieg-Carré	Akustik-Wandverkleidung und Trennwände Regiebereiche und Studios	Kahlen Bauplanungsgesellschaft mbH und R. Oestereich-Rappaport 40454 Düsseldorf
NRW Bank Düsseldorf	Unterkonstruktion für transluzente Akustikwand	Kaefer Isoliertechnik Bereich Microsorber 28195 Bremen Ausführungsplanung: KUSANKE Einrichtungen
HÄFELE Nagold	INTERZUM 2007 Köln Wandkonstruktionen Funktionswände, Raumteiler	CD . 3D Communications Design CH-8340 Weisslingen Werkplanung KUSANKE Einrichtungen
Deutsche Bank	Wandkonstruktionen für Unterkonstruktion für Vidiwall	Zweikant 50769 Köln Ausführungsplanung: KUSANKE Einrichtungen
BMW Museum München	Funktionswände Wandkonstruktionen	Atelier Brückner GmbH 70376 Stuttgart Gielissen GmbH 30165 Hannover
HÄFELE Nagold	Messe HOLZHANDWERK NÜRNBERG 2008 Wandkonstruktionen Funktionswände, Raumteiler	CD . 3D Communications Design CH-8340 Weisslingen Werkplanung KUSANKE Einrichtungen

Object	Applications with Keku® R room system	Design
HÄFELE America Co.	Messestand GLOBAL Shop Funktionswände, Raumteiler	CD . 3D Communications Design CH-8340 Weisslingen Werkplanung KUSANKE Einrichtungen
HÄFELE America Co.	Messestand KBIS 2008	CD . 3D Communications Design CH-8340 Weisslingen Werkplanung KUSANKE Einrichtungen
HÄFELE Verkaufsbüro Köln	Functionality-Center Aufbau der Bereiche Hotel, Shop und Office	Werkplanung KUSANKE Einrichtungen
HÄFELE Nagold	Messe SEKURITY 2008 in Essen Funktionswände, Raumteiler	CD . 3D Communications Design CH-8340 Weisslingen Werkplanung KUSANKE Einrichtungen
Neubau Feuerwache 4 Nürnberg	Unterkonstruktion für Wandverkleidungen	Ausführungsplanung Tischlerei Kram, Burgebrach
HÄFELE Nagold	Messe BAU 2009 in München Funktionswände, Raumteiler Tür- und Torwände	CD . 3D Communications Design CH-8340 Weisslingen Werkplanung KUSANKE Einrichtungen
HÄFELE Verkaufsbüro Köln	Erweiterung Functionality-Center Aufbau der Bereiche Hotel, Shop und Office	Werkplanung KUSANKE Einrichtungen
Neubau Lager- und Bürogebäude KUSANKE Beschlagtechnik	Außenfassade, Innenverkleidung und Zwischendecken	Planung und Ausführung KUSANKE Einrichtungen



Keku® Fitting and room system

SIMPLY PERFECT



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