



NEW

System magnets

- The new standard in automated precast concrete
- More efficient production processes
- For a completely prefabricated electrical installation



NEW

B² one-gang junction boxes

- For magnetic and adhesive attachments
- Versions in depths of 48.5 mm, 68.5 mm and 83.5 mm
- Connection options for conduits with 20 mm, 25 mm, 32 mm and 40 mm diameter
- 1-piece item design for quick insertion



NEW

Ceiling box

- For magnetic and adhesive attachments
- Versions in depths of 105 mm and 115 mm
- Connection options for conduits from 20 mm to 40 mm diameter
- For optimum transport conditions of the slab ceilings



NEW

Transitions

- For magnetic and adhesive attachments
- For conduit sizes of 20 mm, 25 mm and 32 mm diameters
- For secure conduit connections at transitions between different components
- For uninterrupted empty conduit connections and outlets in walls and ceilings



NEW

Accessories

- System accessories complement the precast concrete programme
- Conduit connectors for safe conduit connection
- Universal support and extension elements for overhead installations

| | | |
|---------------------------------------|--|--|
| | automated or manual production with System magnet  pg. 215  | automated production as well as automated removal and storage with System magnet PLUS  pg. 215  |
| For installation accessories | | |
| One-gang junction boxes | | pg. 220 |
| For cable exits | | |
| Luminaire installation and connection | | pg. 225 |
| Wall and ceiling transitions | | |
| End and transition bushes | | pg. 228 |
| Wall and ceiling transition 30° | | pg. 228 |

| | | |
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| Conduit connector | | pg. 221 |
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| Support element | | pg. 223 |
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FLUSH-MOUNTING

CAVITY WALL

CONCRETE

HOUSINGS

FIRE PROTECTION

PLUGGABLE

CONNECTIVITY

CABLE GLANDS

TOOLS

SERVICE

The KAISER product range for precast concrete

Industrially prefabricated slab concrete elements are produced dimensional accuracy largely using an automated precast concrete manufacturing process. The high level of pre-planning, industrial prefabrication in a protected environment and automation during production with regard to the fixing and assembly of installation parts ensure short assembly times and minimised costs. The components for the electrical installation must also be fixed and integrated into the wall or ceiling with the same level of precision as is applied to their manufacture.



1 Wall and ceiling transition 90°, Oval funnel | **2** Slab ceiling large box 115 for magnet attachment | **3** HaloX® 250 with tunnel for precast concrete for magnet attachment | **4** B² one-gang junction boxes for magnet attachment | **5** B² one-gang junction box without plaster skin, depth 68.5 mm | **6** B² one-gang junction box with plaster skin, Universal extension element 175 to 300 mm | **7** Wall and ceiling transition 30° for magnet attachment | **8** HaloX® 180 for precast concrete for magnet attachment | **9** HaloX® 180 / 250 for precast concrete for magnet attachment | **10** HaloX® 180 with tunnel for precast concrete for magnet attachment | **11** Universal installation housing with mineral fibreboard | **12** B² one-gang junction box without plaster skin, depth 48.5 mm

Application examples



The system magnet is used to hold B² one-gang junction boxes,



HaloX® luminaire and loud-speaker housings,



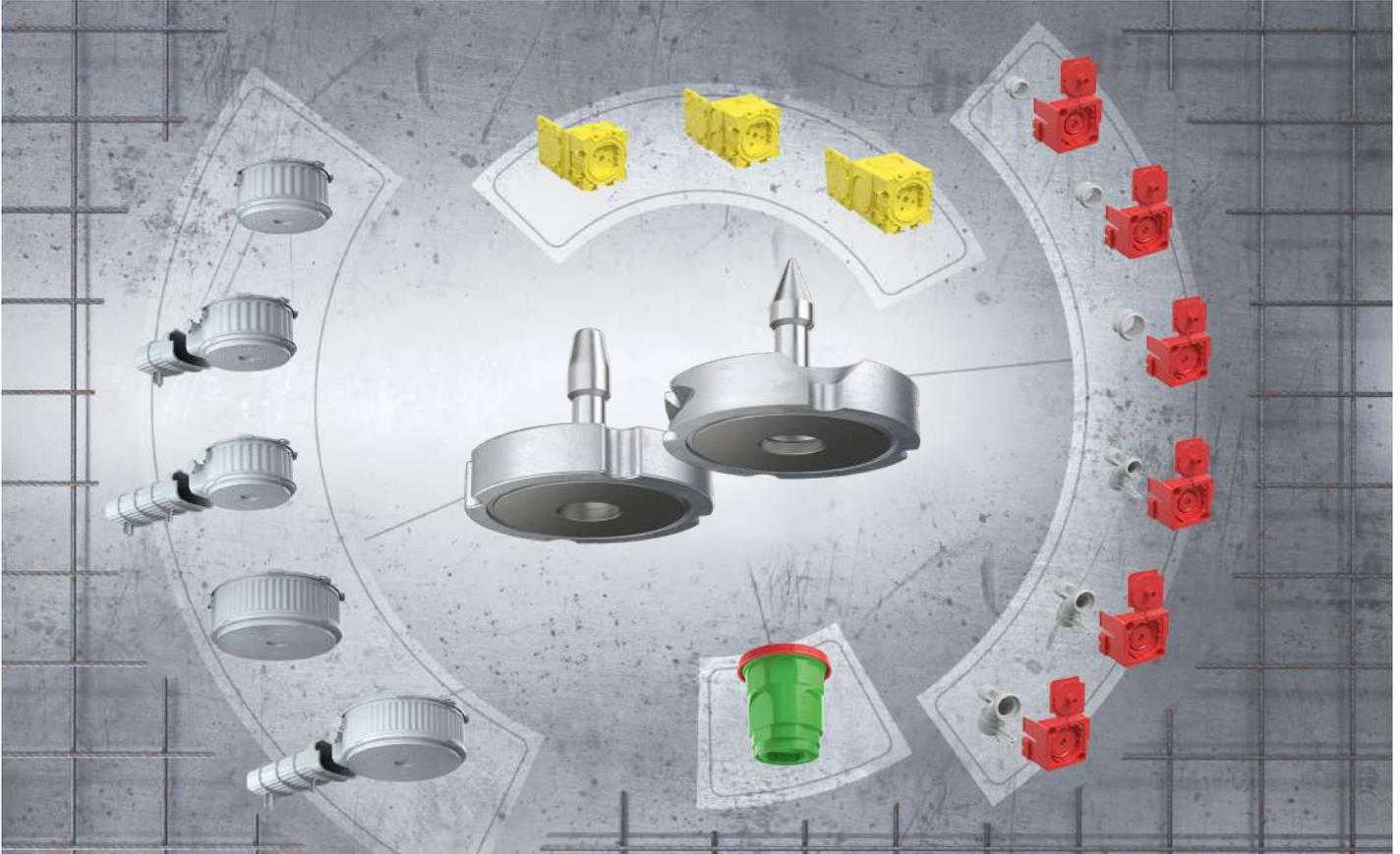
wall and ceiling transitions,



and for accommodating large slab ceiling boxes.

One system magnet for every eventuality.

The system magnet is suitable for all installation parts required in wall and ceiling production to prepare the electrical installation in-factory. The system magnet can be used for correct positioning in both manual and automated production. In automated production, the magnet can be placed on the formwork table automatically and in the correct position using the multifunction gripper. The PLUS system magnet can also be removed and magazined automatically.



Perfect connections for automated production.

The system magnet provides the basis for good installation of all electrical installation solutions in precast concrete.





NEW

System magnet and system magnet PLUS

The system magnet has created a new standard in automated precast concrete for efficient manufacturing processes. This means that the electrical installation can be efficiently implemented using digital planning (BIM) and can flow seamlessly into the precast concrete production process. The complete electrical installation can now be automatically integrated into the in-factory production process with the new system magnet (item no. 1299-69) or system magnet PLUS (item no. 1299-70). Regardless of whether you're using B² one-gang junction boxes, wall and ceiling transitions, large slab ceiling boxes or luminaire and loudspeaker housings, the new system magnets can be used to position everything safely and with millimetre precision. After removing the concrete formwork elements, the system magnets PLUS (item no. 1299-70) can be removed automatically.

- The complete installation can be carried out with only one type of magnet – for automated setting (system magnet, item no. 1299-69) and/or setting and removal (system magnet Plus, item no. 1299-70)
- Four sideway notches ensure torsion-proof installation of the one-gang boxes
- Adhesive force of 500 N
- Reusable



System magnet

- for accurate positioning during automated or manual production
- with an anti-twist device for one-gang boxes
- adhesive force 500 N (50 kg)
- Suitable for the following items:
- HaloX® installation housing / item no. 1282-74/-75/-76 and 1283-74/-76
- B² one-gang junction boxes / item no. 1262-06, 1263-06, 1264-06
- 115 large slab ceiling box / item no. 1227-16
- End and transition bushes / item no. 1261-82/-83/-84
- Wall and ceiling transitions 30° / item no. 1261-92/-93/-94

NEW

INNOVATION



Produkt-Film



| | |
|--------------------------|----------------|
| Art.-No. | 1299-69 |
| Inner packaging/shipping | - / 10 |

System magnet PLUS

NEW

INNOVATION



Produkt-Film

- for correct positioning during automated production as well as automated removal and storage
- with an anti-twist device for one-gang boxes
- adhesive force 500 N (50 kg)
- Suitable for the following items:
 - HaloX® installation housing / item no. 1282-74/-75/-76 and 1283-74/-76
 - B² one-gang junction boxes / item no. 1262-06, 1263-06, 1264-06
 - 115 large slab ceiling box / item no. 1227-16
 - End and transition bushes / item no. 1261-82/-83/-84
 - Wall and ceiling transitions 30° / item no. 1261-92/-93/-94



| | |
|--------------------------|----------------|
| Art.-No. | 1299-70 |
| Inner packaging/shipping | - / 10 |

Magnet

- for clamp attachment in the box
- for anti-shock fixing of one-gang junction boxes in horizontal formwork
- Adhesive force of 900 N
- Magnet remains on the formwork table after formwork removal
- Centering device for correct positioning during automated production



| | |
|--------------------------|----------------|
| Art.-No. | 1261-81 |
| Inner packaging/shipping | - / 5 |

FLUSH-MOUNTING

CAVITY WALL

CONCRETE

HOUSINGS

FIRE PROTECTION

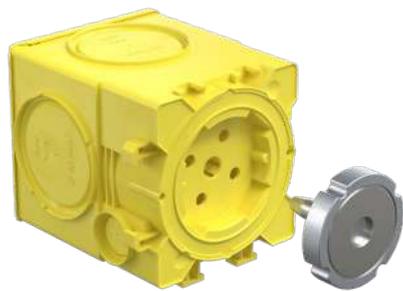
PLUGGABLE

CONNECTIVITY

CABLE GLANDS

TOOLS

SERVICE



NEW

B² one-gang junction boxes

The new B² one-gang junction boxes for precast concrete offer plenty of space for terminals and cables thanks to their large volume and ease of assembly. The version with a slot for the system magnet (Art. No. 1299-69) or system magnet PLUS (Art. No. 1299-70) is ideally suited for quick attachment to system magnets that have already been set automatically. Multiple combinations with a standardised combination distance of 71 mm can be created quickly and easily using the connection options on the side of the B² one-gang junction boxes. The separately available conduit connectors for toolless conduit connection prevent concrete from flowing in and at the same time dampen conduit vibrations during the compaction process.

- For in-factory installation
- Slot for system magnet (Art. No. 1299-69) or system magnet PLUS (Art. No. 1299-70)
- 4 screw domes and 2 expanding claw fields for accessory fitting
- Standardised combination distance 71 mm
- 1-piece

INNOVATION



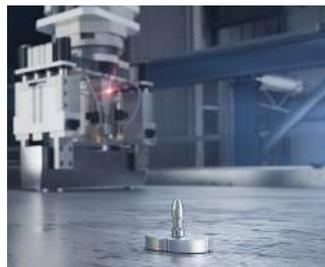
Fixing variant



B² one-gang junction boxes with slot for KAISER system magnet (e. g. Art. No. 1299-69).



Perfect connections...

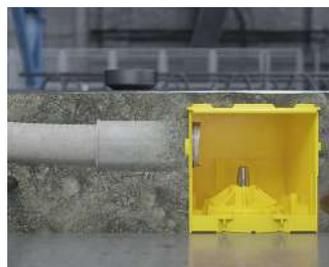


...for automated production.

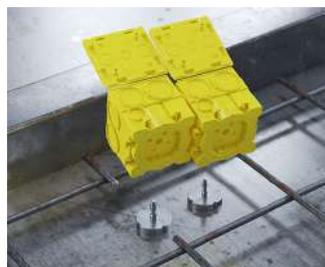
Product advantages



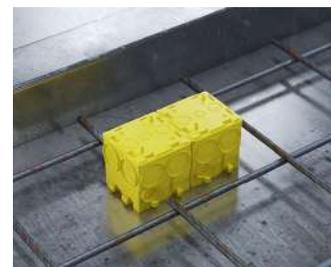
The conduit connectors buffer the vibrations that occur between the conduit and the box during the compression process...



...and at the same time securely seal the connection in any position.



Combination of two B² one-gang junction boxes...



...fixed to the steel formwork using a system magnet.

Conduit connectors with 20/25 mm diameter



With built-in conduit lock designed especially for corrugated conduits with a diameter of 20/25 mm.



Clip the conduit connector to the one-gang junction box.



Press the conduit connector downwards and completely punch out the feed-through.



Insert the conduit into the conduit connector.

Conduit connectors with 32/40 mm diameter



With built-in conduit lock designed especially for corrugated conduits with a diameter of 32/40 mm.



Insert the tip of the conduit connector in the marked position.



Turn the conduit connector with pressure against the one-gang junction box until the feed-through is cut out.



Clip the conduit connector into place and insert the conduit into the conduit connector.

Conduit connector 60° / diameter 25 mm



Snap the two halves of the conduit connector 60° together.



Pierce the tip of the conduit connector 60° at the desired conduit entry and turn until the feed-through is cut out.



Insert the conduit in engaged conduit connector 60°.



3-unit combination with inserted conduits in the wall area.

One-gang junction boxes and system components

for horizontal precast concrete

B² one-gang junction boxes

NEW

INNOVATION



Produkt-Film

- for factory installation
- Slot for system magnet (Art. No. 1299-69) or system magnet PLUS (Art. No. 1299-70)
- 1-piece
- 4 screw domes and 2 expanding claw fields for accessory fitting
- Standardised combination distance 71 mm



| Depth | 48,5 mm | 68,5 mm | 83,5 mm |
|---|----------------|----------------|----------------|
| Installation opening Ø | 60 mm | 60 mm | 60 mm |
| Markings for wires and cables up to Ø 16 mm | 4 | 4 | 2 |
| Break-out openings for DIN EN Ø 20/25 mm conduits | 4 | 8 | - |
| Break-out openings for DIN EN Ø 32/40 mm conduits | - | - | 4 |
|  /  | Yes / Yes | Yes / Yes | Yes / Yes |
| Art.-No. | 1262-06 | 1263-06 | 1264-06 |
| Inner packaging/shipping | - / 100 | - / 100 | - / 100 |

B² one-gang junction box without plaster skin

- for factory installation
- Fixing to the formwork by means of KAISER B² magnet (Art. No. 1261-81)
- 4 screw domes and 2 expanding claw fields for accessory fitting
- Standardised combination distance 71 mm
- 1-piece



| Depth | 48,5 mm | 68,5 mm | 83,5 mm |
|---|----------------|----------------|----------------|
| Installation opening Ø | 60 mm | 60 mm | 60 mm |
| Markings for wires and cables up to Ø 16 mm | 4 | 4 | 2 |
| Break-out openings for DIN EN Ø 20/25 mm conduits | 4 | 8 | - |
| Break-out openings for DIN EN Ø 32/40 mm conduits | - | - | 4 |
|  /  | Yes / Yes | Yes / Yes | Yes / Yes |
| Art.-No. | 1262-61 | 1263-61 | 1264-61 |
| Inner packaging/shipping | - / 100 | - / 100 | - / 100 |

B² one-gang junction box with plaster skin

- for factory installation
- Fastening to the formwork by means of KAISER adhesive foil (Art. No. 1219-00) or hot glue
- 4 screw domes and 2 expanding claw fields for accessory fitting
- Standardised combination distance 71 mm
- 1-piece



| Depth | 48,5 mm | 68,5 mm | 83,5 mm |
|---|----------------|----------------|----------------|
| Installation opening Ø | 60 mm | 60 mm | 60 mm |
| Markings for wires and cables up to Ø 16 mm | 4 | 4 | 2 |
| Break-out openings for DIN EN Ø 20/25 mm conduits | 4 | 8 | - |
| Break-out openings for DIN EN Ø 32/40 mm conduits | - | - | 4 |
| / | Yes / Yes | Yes / Yes | Yes / Yes |
| Art.-No. | 1262-60 | 1263-60 | 1264-60 |
| Inner packaging/shipping | - / 100 | - / 100 | - / 100 |

Conduit connector

- for punching out markings without tools
- accepts rigid and flexible DIN EN conduits



| DIN EN conduit Ø | 20 mm | 25 mm | 32 mm | 40 mm |
|--------------------------|----------------|----------------|----------------|----------------|
| Art.-No. | 1261-20 | 1261-25 | 1261-32 | 1261-40 |
| Inner packaging/shipping | - / 100 | - / 100 | - / 100 | - / 100 |

Conduit connector 60°

- space-saving entry of conduits in confined spaces, e.g. door and window areas
- for punching out markings without tools
- for fitting flexible DIN EN conduits 25 mm



| | |
|--------------------------|----------------|
| Art.-No. | 1266-25 |
| Inner packaging/shipping | - / 100 |

FLUSH-MOUNTING

CAVITY WALL

CONCRETE

HOUSINGS

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CONNECTIVITY

CABLE GLANDS

TOOLS

SERVICE

Distance piece 142

- for connecting to all one-gang junction boxes at 142 mm centre distance
- for separate covering, e.g. low-voltage in combinations with sockets with protection against accidental contact.
- also for overhead boxes
- with push-stud connector for extension elements



| | |
|--------------------------|----------------|
| Art.-No. | 1261-18 |
| Inner packaging/shipping | - / 50 |

Plaster compensation ring

- for latching on the one-gang junction box
- screw distance to equipment attachment 60 mm
- with moulded-in plaster skin to prevent ingress of cleaning material

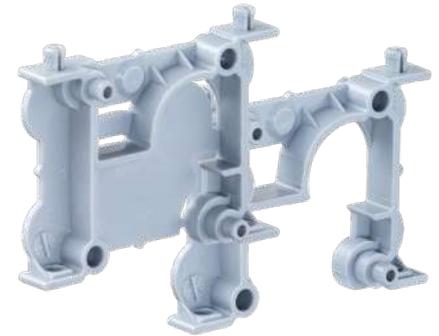


| | |
|--------------------------|----------------|
| Height | 14,5 mm |
| Diameter | 60 mm |
| Art.-No. | 1261-60 |
| Inner packaging/shipping | 25 / 250 |

Extension element 10-100 mm

Extension element for bridging wall thicknesses and supporting one-gang boxes during installation on the opposing formwork. Bridging of up to 100 mm (plus box dimensions) can be underpinned securely in increments of 10 or 50 mm.

- For installation of overhead one-gang junction boxes
- Fitting height: vertical 50 mm, horizontal 10 mm
- can be attached to one-gang junction boxes or abutment using push-stud conduit connector
- Clip the connector into place, insert the conduit into the connector.



Extension element 10 to 50 mm

- for fitting of overhead one-gang junction boxes at greater heights
- can be attached to one-gang junction boxes or abutment using push-stud conduit connector



| | |
|---|----------------|
| Installation heights, horizontal | 10 mm |
| Installation heights, vertical | 50 mm |
| Art.-No. | 1261-10 |
| Inner packaging/shipping | - / 50 |

Abutment

- for fitting of overhead one-gang junction boxes at greater heights
- for fixing to formworks



| | |
|--------------------------|----------------|
| Art.-No. | 1261-11 |
| Inner packaging/shipping | - / 50 |

FLUSH-MOUNTING

CAVITY WALL

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SERVICE



Universal extension element from 105 mm

Universal extension element for bridging wall thicknesses of more than 105 mm and supporting one-gang boxes during installation on the opposing formwork. Thanks to the various sizes, heights of 105 mm up to 300 mm (plus box dimensions) can be bridged in increments of 5 mm.

- For installation of overhead one-gang junction boxes
- Height adjustable in increments of 5 mm
- Can be attached to one-gang junction boxes using push-button connection

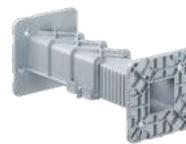


Note

For lengths of less than 105 mm, the two parts are simply shortened and put back together again.

Universal extension element

- for fitting of overhead one-gang junction boxes at greater heights
- height adjustable in increments of 5 mm



| Length (+ box installation height) | 105 - 170 mm | 175 - 300 mm | 105 - 170 mm | 175 - 300 mm |
|--|----------------|----------------|----------------|----------------|
| attached using hot glue on formwork table | Yes | Yes | - | - |
| can be attached to one-gang junction boxes or abutment using push-stud conduit connector | - | - | Yes | Yes |
| Art.-No. | 1261-06 | 1261-07 | 1261-08 | 1261-09 |
| Inner packaging/shipping | - / 50 | - / 50 | - / 50 | - / 50 |

Large slab ceiling box

The large slab ceiling box is suitable for in-factory installation in prefabricated ceilings. The version with a slot for the system magnet (Art. No. 1299-69) or system magnet PLUS (Art. No. 1299-70) is ideally suited for quick attachment to system magnets that have already been set automatically. The large slab ceiling boxes are already a part of the ceiling when they reach the construction site and enable the quick insertion of empty conduits. The resealable quick-release cover can be opened with a quarter turn and so enables the quick and exact creation of conduit entries using punch pliers (Art. No. 1286-33/-34).

- For in-factory installation
- Slot for system magnet (Art. No. 1299-69) or system magnet PLUS (Art. No. 1299-70)
- Large adhesive area with rough surface structure for a secure fit on the formwork table
- 115-mm installation height guarantees optimal transport conditions for prefabricated ceilings
- Quick-release cover for fast cutting of conduit entries using punch pliers
- Integrated M5 domed cap nut ensures secure fitting of a light hook.
- With closing cover for on-site fitting of conduits



NEW

Processing instructions



Quick-release cover for fast cutting of conduit entries using punch pliers.



Quick-release cover for fast cutting of conduit entries using punch pliers.



8 markings for entries up to Ø 25 mm for easy creation of cable or pipe entries.



M5 metal nut for secure mounting of light hooks up to 100 N (10 kg) according to DIN EN 60670.

Large slab ceiling box 115

NEW

- For in-factory installation
- Slot for system magnet (Art. No. 1299-69) or system magnet PLUS (Art. No. 1299-70)
- Installation height 115 mm, with M5 metal nut for light hook (min. hook length: 115 mm + plaster thickness)
- With closing cover for on-site fitting of conduits
- maximum light hook load according to DIN EN 60670 100 N (10 kg)



INNOVATION



Produkt-Film

| | |
|---|----------------|
| Depth | 115 mm |
| Exit opening Ø | 60 mm |
| Markings for wires and cables up to Ø 25 mm | 8 |
| Markings for wires and cables up to Ø 32 mm | 4 |
| Number of parts | 2 |
| | Yes |
| Art.-No. | 1227-16 |
| Inner packaging/shipping | - / 100 |

One-gang junction boxes and system components

for horizontal precast concrete

Slab ceiling large box 115

- for factory installation
- Fastening to the formwork by means of KAISER adhesive foil (Art. No. 1219-00) or hot glue
- Installation height 115 mm, with M5 metal nut for light hook (min. hook length: 115 mm + plaster thickness)
- With closing cover for on-site fitting of conduits
- maximum light hook load according to DIN EN 60670 100 N (10 kg)



Slab ceiling large box 105

- for factory installation
- Fastening to the formwork by means of KAISER adhesive foil (Art. No. 1219-00) or hot glue
- Installation height 105 mm, with metal nut M5 for light hook (min. hook length: 105 mm + plaster thickness)
- for space frame heights up to 11 cm (incl. distance pieces)
- With closing cover for on-site fitting of conduits
- maximum light hook load according to DIN EN 60670 100 N (10 kg)



| Depth | 115 mm | 105 mm |
|---|----------------|----------------|
| Exit opening Ø | 60 mm | 60 mm |
| Markings for cables and DIN EN conduits up to Ø 25 mm | 8 | 8 |
| Markings for cables and DIN EN conduits up to Ø 32 mm | 4 | - |
| Number of parts | 2 | 2 |
| especially suitable for hot glue attachment | Yes | Yes |
|  | Yes | Yes |
| Art.-No. | 1227-55 | 1227-54 |
| Inner packaging/shipping | - / 100 | - / 100 |

Light hook

- for screwing into lamp boxes (EN 60670)
- maximum light hook load according to DIN EN 60670 100 N (10 kg)
- with M5 thread, fully insulated

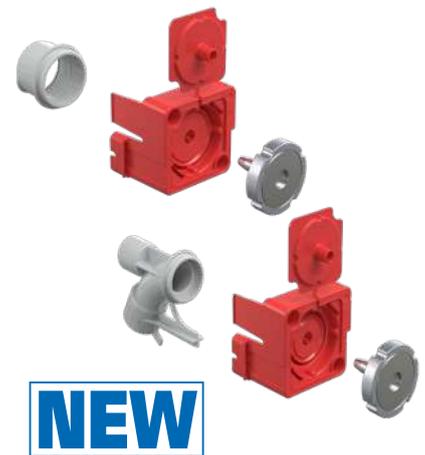


| Length of shank | 105 mm | 115 mm | 125 mm |
|--------------------------|----------------|----------------|----------------|
| Diameter hook | 26 mm | 26 mm | 26 mm |
| Overall length | 132 mm | 143 mm | 151 mm |
| Thread length | 10 mm | 10 mm | 10 mm |
| Art.-No. | 1226-97 | 1226-98 | 1226-99 |
| Inner packaging/shipping | - / 100 | - / 100 | - / 100 |

Wall and ceiling transitions

For the first time, the new end and transition bushes as well as wall and ceiling transitions 30° allow the automated positioning and fastening of conduit connections in precast concrete elements. The integrated slot for the system magnet (Art. No. 1299-69) or system magnet PLUS (Art. No. 1299-70) enables a secure and formwork-flush fit on the horizontal steel formwork of the circulation systems used in concrete plants. The new articles also provide alternative options for fixing to formwork. They can be fixed using hot glue, steel nails and even for overhead installation in solid wall elements using Prefix® Universal supports (Art. No. 1261-00).

- Slot for system magnet (Art. No. 1299-69) and system magnet PLUS (Art. No. 1299-70) for use in automated production lines
- For conduit sizes of 20 mm, 25 mm and 32 mm diameters
- All end and transition bushes and wall and ceiling bends 30° can be combined with each other
- Resealable sealing cover to protect the empty conduit system from concrete when installed on top, during transport and when erected on site
- Signal bristle and bold colouring for easy retrieval in the concrete surface
- Optimal transition radius for easy cable insertion
- 1-piece design, immediately ready for use



Application examples



Wall and ceiling transitions with opening for KAISER system magnets (item no. 1299-69) and system magnet PLUS (item no. 1299-70).



Wall and ceiling transitions for attachment with hot glue.



For mounting on the wooden formwork - two stable nail domes with nail pre-fixing enable a secure hold on the formwork with steel nails.



Prefix® upside mounting adapter (item no. 1261-00) - Easy and quick processing for installations above.

Processing instructions



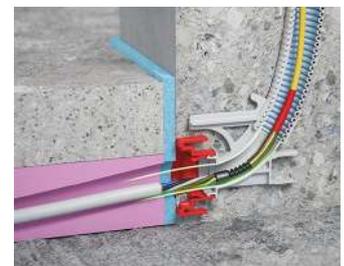
Resealable closure lids - Protection from concrete during transport and when erecting the wall element on site.



Signal brush – easy finding of the transitions in the wall surface.



The new ceiling transitions can be optimally combined and thus processed quickly and precisely.



The new 30° ceiling transitions have an optimal radius and for a flexible insertion of cables.

One-gang junction boxes and system components

for horizontal precast concrete

End and transition bushes

NEW

INNOVATION



Produkt-Film

- For connecting conduits at transition points
- Slot for system magnet (Art. No. 1299-69) or system magnet PLUS (Art. No. 1299-70)
- Large adhesive surface
- For overhead installation in solid walls
- With closing cover to prevent ingress of foreign bodies
- Combinable end and transition bushes and wall and ceiling transition 30°
- Two slots for Prefix® system accessories
- Suitable for all types of formwork
- Two nail domes



| Length x Width x Depth | 53 x 64 x 48 mm | 53 x 64 x 48 mm | 53 x 64 x 49 mm |
|--------------------------|-----------------|-----------------|-----------------|
| DIN EN conduit Ø | 20 mm | 25 mm | 32 mm |
| Number of parts | 2 | 2 | 2 |
| Art.-No. | 1261-82 | 1261-83 | 1261-84 |
| Inner packaging/shipping | - / 100 | - / 100 | - / 100 |

Wall and ceiling transition 30°

NEW

INNOVATION



Produkt-Film

- For connecting conduits at transition points
- Slot for system magnet (Art. No. 1299-69) or system magnet PLUS (Art. No. 1299-70)
- Large adhesive surface
- For overhead installation in solid walls
- With closing cover to prevent ingress of foreign bodies
- Combinable end and transition bushes and wall and ceiling transition 30°
- Two slots for Prefix® system accessories
- Suitable for all types of formwork
- Two nail domes



| Length x Width x Depth | 80 x 64 x 86,5 mm | 81 x 64 x 86,5 mm | 86 x 64 x 91 mm |
|--------------------------|-------------------|-------------------|-----------------|
| DIN EN conduit Ø | 20 mm | 25 mm | 32 mm |
| Number of parts | 2 | 2 | 2 |
| Art.-No. | 1261-92 | 1261-93 | 1261-94 |
| Inner packaging/shipping | - / 100 | - / 100 | - / 100 |

Prefix® universal support

The Prefix® universal support enables simple, fast fitting of overhead electrical installations in solid wall elements without a support element for the steel formwork table. The support can be easily adjusted to the required concrete ceiling by means of a snap-in connection and attached to the new end and transition bushes and wall and ceiling transitions 30° by means of a snap-in connection. The previously customary and costly in-house constructions using timber blanks can thus be dispensed with, disruptions to the further production process are a thing of the past and production of a good wall surface quality is guaranteed without restriction.

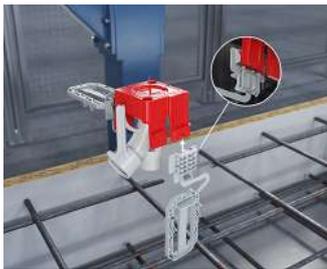
- For overhead electrical installations in prefabricated solid walls without support elements
- With integrated dimension indication, easily adjustable to the common concrete ceilings 20 mm, 25 mm, 30 mm or 35 mm
- Generous tolerance compensation for fixing to the reinforcement
- Prefixing using Prefix® installation technology leaves both hands free for fixing with tie wires



NEW



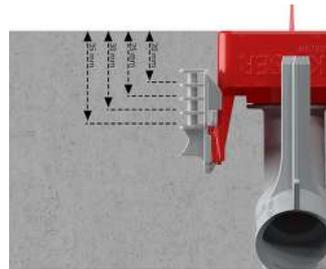
Fitting instructions



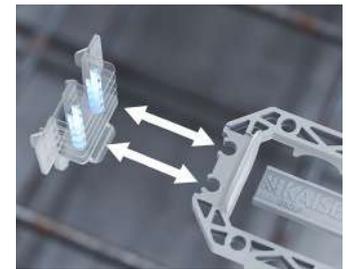
The new wall and ceiling transitions for factory production each have two opposing stable slots for the Prefix® universal support.



The required concrete ceiling can be quickly read off and precisely set using the dimensional scale. The dimensional scale is adjusted, so that the wall-ceiling transitions are minimally below the subsequent wall surface,



and therefore do not impede the next steps in the manufacturing process. The signal bristle keeps the position of the exits visible in the concrete surface.



Prefix® universal supports have a stable snap-in connection and can be released and repositioned if the concrete ceiling is set incorrectly.



With the Prefix® universal support, all end and transition bushes, as well as the wall and ceiling transition 30° for factory production, can be



installed on top for conduit sizes with 20 mm, 25 mm and 32 mm diameters without any support elements.



The wall and ceiling transitions are pre-fixed in the reinforcement using Prefix® installation technology and fixed with tie wires, then the conduit connection is made.



During the concreting process, the concrete can also flow underneath and no fixing marks remain in the concrete surface to the rear.

Prefix® universal support

NEW

- For overhead installations in prefabricated solid walls
- Facilitates fixing to the reinforcement
- Adjustable to concrete ceilings 20, 25, 30 or 35
- Pre-fixing by means of Prefix® installation technology
- Can be used for the following items:
 - End and transition bushes / item no. 1261-82/-83/-84
 - Wall and ceiling transitions 30° / item no. 1261-92/-93/-94



| | |
|--------------------------------|------------------------|
| Length x Width x Height | 87 x 45 x 36 mm |
| Number of parts | 1 |
| for concrete covers | 20, 25, 30, 35 mm |
| Art.-No. | 1261-00 |
| Inner packaging/shipping | - / 350 |

Wall and ceiling transition

Wall and ceiling transition for uninterrupted conduit connections and wall and ceiling exits. The exact distance to the formwork edgings can be set and fixed in 5 mm increments with the integrated measurement strip.

- For secure conduit connections on prefabricated concrete elements
- For fitting to formwork edging
- For rigid and flexible DIN EN conduits Ø 25 mm
- For locating exact height thanks to integrated measurement strip



Installation



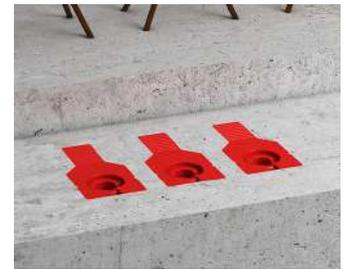
The exact position is achieved with the help of the measurement strip and by gluing it to the formwork edging.



The moulded closing cover protects the opening against dirt and concrete. Simply open it prior to installation.



Insert the conduit into the clean installation opening.



Wall exit of a prefabricated wall as transition to the filigree ceiling.

Wall and ceiling transition

- for fitting to formwork edging
- with moulded-in measurement strip to achieve the exact installation height in 5 mm steps
- with closing cover to prevent ingress of material



| | |
|--------------------------|----------------|
| DIN EN conduit Ø | 25 mm |
| Art.-No. | 1261-12 |
| Inner packaging/shipping | - / 100 |

One-gang junction boxes and system components

for horizontal prefabrication



90° wall and ceiling transition

90° wall and ceiling transition for uninterrupted conduit connections and wall and ceiling exits. The 90° bend makes it much easier to pull the cables through at a later stage.

- For secure conduit connections on prefabricated concrete elements
- For fitting to formwork edging
- For rigid and flexible DIN EN conduits
- Upper conduit entry above the filigree ceiling, for laying conduits on the building site



Processing instructions



The 90° bend ensures clean transitions and easy cable routing. Just glue the wall and ceiling transition to the formwork edging.



The clip nose is used for securing corrugated conduits with Ø 20 or Ø 25 mm.



Two integrated closing covers protect against dirt and concrete penetration.



Wall-ceiling transition 90° using the oval funnel.

Wall and ceiling transition 90°

- for easier drawing of cable through 90° bends
- for fitting to formwork edging
- accepts rigid and flexible DIN EN conduits
- with closing cover to protect against foreign bodies



| DIN EN conduit Ø | 20 mm | 25 mm |
|--------------------------|---------|---------|
| Art.-No. | 1261-16 | 1261-14 |
| Inner packaging/shipping | - / 100 | - / 100 |

Oval funnel

The oval funnel simplifies the exact joining of prefabricated concrete elements with integrated installation conduits. It guarantees safe conduit entry and provides a tolerance compensation of 1 cm or 2 cm during installation.

- Tolerance compensation when joining the concrete elements
- For industrially prefabricated ceiling and wall elements as well as on-site mixed concrete
- For secure connection of installation conduits on transitions of prefabricated concrete elements
- Precise joining of electrical installation conduits
- Tolerance compensation: 2 cm in longitudinal direction and 1 cm in transverse direction.



Tolerance compensation when joining the concrete elements



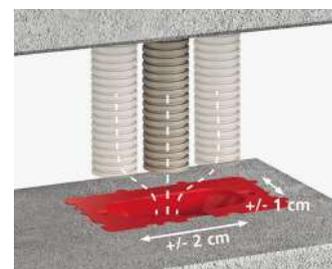
Compensation in longitudinal direction ± 20 mm.



Compensation in transverse direction ± 10 mm.



Wall-ceiling transition 90° using the oval funnel.



Good compensation of construction tolerances.

Oval funnel

- for the simple connection of DIN EN conduits with tolerance compensation for wall-wall and wall-ceiling transitions
- for installation on the transition edge
- accepts rigid and flexible DIN EN conduits
- with closing cover to prevent ingress of material



| | | |
|--------------------------|----------------|----------------|
| DIN EN conduit Ø | 20 mm | 25 mm |
| Art.-No. | 1261-42 | 1261-43 |
| Inner packaging/shipping | - / 100 | - / 100 |

Universal installation housing

Universal installation housing for the installation of almost all device types and shapes in concrete walls and ceilings. The housing system consists of nine different installation housings and an extensive range of accessories.

- For displays, LED lights and much more
- For installing almost all shapes and sizes
- For installation in walls or ceilings
- For in-situ or prefabricated concrete
- For horizontal or vertical formwork and for masonry



Application example



The concreted-in housing with flush-mounted finish of the mineral fibreboard. The groove in the mineral fibreboard indicates the maximum installation area.



The support element in the installation housing prevents it being pressed inward during concreting.



When attaching the device to the installation housing, use only screws that go into but not right through the mineral fibreboard cover (e.g. SPAX countersunk head screw 3.5 x 15 mm)!



The front cover can be easily cut to create virtually any opening shape.

Note

The indicated wall thicknesses refer to walls without a fire protection function. The following applies to fire protection walls: Remaining wall thickness must be min. 60 mm. When using halogen lamps, pay attention to maximum power (see product details).

Universal installation housing with mineral fibreboard cover

- two-part, consisting of a rear housing and a front part with a mineral fibreboard insert
- all-round groove indicates the maximum opening size
- for loudspeakers, displays and LED lights



| Length x Width x Depth | 90 x 90 x 70 mm | 150 x 90 x 70 mm | 128 x 128 x 86 mm |
|----------------------------------|-----------------|------------------|-------------------|
| Installation opening | 40 x 40 mm | 100 x 40 mm | 75 x 50 mm |
| Device installation depth | 60 mm | 60 mm | 65 mm |
| Ceiling thickness | ≥ 140 mm | ≥ 140 mm | ≥ 140 mm |
| Wall thickness | ≥ 110 mm | ≥ 110 mm | ≥ 120 mm |
| suitable for horizontal formwork | Yes | Yes | Yes |
| suitable for vertical formwork | Yes | Yes | Yes |
| Art.-No. | 1223-22 | 1224-22 | 1295-22 |
| Inner packaging/shipping | - / 10 | - / 10 | - / 10 |

Universal installation housings

for concrete ceilings and walls

Universal installation housing with mineral fibreboard cover

- two-part, consisting of a rear housing and a front part with a mineral fibreboard insert
- all-round groove indicates the maximum opening size
- incl. internal support element to strengthen the housing



| Length x Width x Depth | 180 x 180 x 90 mm | 250 x 220 x 90 mm |
|----------------------------------|-------------------|-------------------|
| Installation opening | 120 x 100 mm | 200 x 145 mm |
| Device installation depth | 65 mm | 65 mm |
| Ceiling thickness | ≥ 140 mm | ≥ 140 mm |
| Wall thickness | ≥ 120 mm | ≥ 120 mm |
| suitable for horizontal formwork | Yes | Yes |
| suitable for vertical formwork | Yes | Yes |
| Art.-No. | 1296-22 | 1297-22 |
| Inner packaging/shipping | - / 10 | - / 5 |

Universal installation housing with mineral fibreboard cover

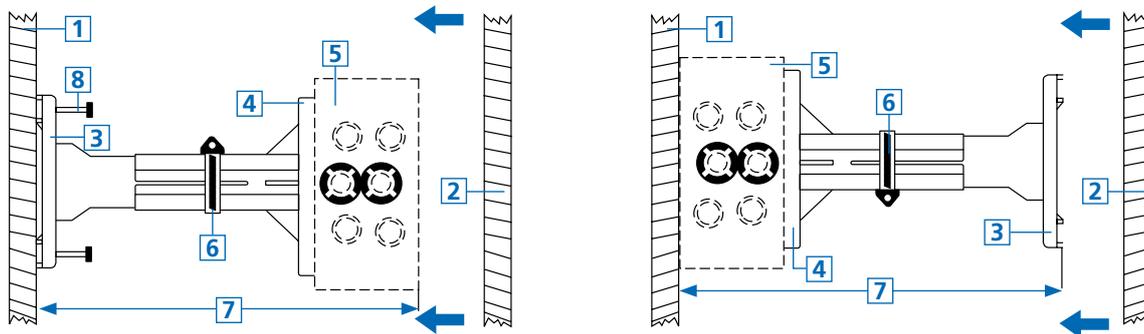
- suitable for installation in horizontal or vertical formwork and in masonry
- two-part, consisting of a housing and a mineral fibreboard cover
- Optional accessory: Set of Prefix® wing brackets



| Length x Width x Depth | 258 x 188 x 135 mm | 258 x 188 x 200 mm | 408 x 308 x 135 mm | 408 x 308 x 235 mm |
|--|------------------------------|------------------------------|------------------------------|--|
| Installation opening | 194 x 124 mm | 194 x 124 mm | 344 x 234 mm | 344 x 234 mm |
| Device installation depth | 105 mm | 180 mm | 115 mm | 215 mm |
| Ceiling thickness | ≥ 180 mm | ≥ 240 mm | ≥ 180 mm | ≥ 280 mm |
| Wall thickness | ≥ 180 mm | ≥ 240 mm | ≥ 180 mm | ≥ 280 mm |
| Tube entries up to M25 | 12 | 20 | 16 | 24 |
| Tube entries up to M32 | 8 | 8 | 8 | 20 |
| Tube entries up to M40 | 4 | 8 | 2 | 20 |
| Extensive pull-out apertures | 8 | 8 | 10 | 10 |
| Number of nails | 8 | 8 | 8 | 8 |
| max. output halogen luminaires | 1x35 W QR-CBC, 1x50 W Alu | 1x50 W QR-CBC, 1x75 W Alu | 1x50 W QR-CBC, 1x75 W Alu | 1x75 W QR-CBC, 2x50 W QR-CBC, 2x75 W Alu |
| Tube entries up to M20 | - | 4 | - | - |
| Tube entries up to M50 | - | 4 | 8 | 12 |
| Tube entries up to M63 | - | - | - | 4 |
|  650 °C | Yes | Yes | Yes | Yes |
| Art.-No. | 1298-37 | 1298-38 | 1297-34 | 1297-35 |
| Inner packaging/shipping | - / 10 | - / 10 | - / 4 | - / 4 |

Support technology for boxes and installation housings

Supporting by means of telescopic support: Junction boxes and installation housings can be installed on either side of a wall after the formwork has been placed on one side - either by fixing them directly to the rear (already placed) formwork or by supporting them off the rear formwork via a telescopic support. If the junction box is attached directly to the already-placed formwork or if heavy loading is to be expected due to a large concrete pouring height, additional securing by means of a telescopic support is recommended.



1 Working formwork | 2 Opposing formwork | 3 Base plate | 4 Supporting plate | 5 Junction casing | 6 Hose clamp | 7 Wall thickness +2 cm | 8 Nail

Adjusting the telescopic support to different wall thicknesses



Wall thickness up to 20 cm:
Shorten the 8-sided tube at the base plate and the support plate to the appropriate length.
Wall thickness 20 to 25 cm:
Adjust the telescopic support to the appropriate length.

Note

When the formwork is closed, the junction box and the telescopic support are compressed between the formwork panels. The extra 2 cm of length allowed ensures sufficient pressure for a secure fit. Always tighten the hose clamp fully!

Telescopic support

- for supporting all boxes (99xx.xx without support element connection detail) on erected wooden formwork
- Fixing of the base plate by means of the four enclosed nails
- Fixing of the supported box by screwing onto the support plate
- Without extension piece, adjustable for wall thickness from 135 to 205 mm + depth of supported box. With enclosed extension piece, adjustable from 195 to 265 mm + depth of supported box.



| | |
|--|-------------------------------|
| Length x Width x Height | 110 x 110 x 150-300 mm |
| Number of nails | 4 |
|  650 °C | Yes |
| Art.-No. | 9957 |
| Inner packaging/shipping | - / 10 |

International products



For international projects, we offer a large range of products which meet the relevant national standards and regulations.

- Dimensions and approvals based on national standards
- Suitable installation tools
- Many combination options



Installation



Fix the front part to the formwork (nail or screw fitting).



Make conduit entry (punch pliers or universal opening cutter).



Insertion of the conduits through exact openings.



Easy installation via snap-in connection.



Tie lugs provide additional security if extreme loads are expected.

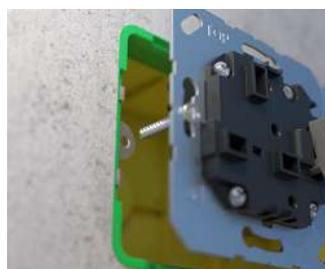
Examples of use



Open the concrete construction boxes and fit the accessory.



Easy to click the slide nuts into place...



...and position the accessories exactly.

One-gang box for 1 gang British accessories



- equipment can be aligned at any time by using to M 3.5 slide nuts
- Certified to BS 4662



One-gang box for 2 gang British accessories



- equipment can be aligned at any time by using to M 3.5 slide nuts
- Certified to BS 4662



| Length x Width x Depth | 89 x 89 x 60 mm | 149 x 89 x 60 mm |
|---|-----------------|------------------|
| Screw spacing | 60,3 mm | 120,6 mm |
| Installation opening | 68 x 68 mm | 68 x 128 mm |
| Markings for cables and DIN EN conduits up to Ø 32 mm | 4 | 6 |
| Number of parts | 2 | 2 |
| Art.-No. | 1223-41 | 1224-41 |
| Inner packaging/shipping | - / 100 | - / 100 |

Slide nuts for British accessories inserts



- 2 items required per one-gang box
- for clipping into equipment one-gang boxes 1223-41/1224-41
- protected against corrosion



| | |
|--------------------------|----------------|
| Art.-No. | 1224-99 |
| Inner packaging/shipping | 100 / - |

B¹ Installation box Italian standard 3 modules



- for 3 modules in monoblock construction
- Suitable for all types of formwork
- 2-part with moulded-on rear part
- Two slots for connection of B¹ Prefix[®] system wing brackets
- rear part of box with holder for support element
- Suitable for American installation accessories



B¹ Installation box Italian standard 4 modules



- for 4 modules in monoblock construction
- suitable for all types of formwork
- 2-part with moulded-on rear part
- Two slots for connection of B¹ Prefix[®] system wing brackets
- rear part of box with holder for support element



| Length x Width x Depth | 160 x 75 x 91 mm | 160 x 75 x 91 mm |
|---|------------------|------------------|
| Screw spacing | 83 mm | 108 mm |
| Break-out openings for DIN EN Ø 20/25 mm conduits | 7 | 7 |
| Break-out openings for DIN EN Ø 32/40 mm conduits | 2 | 2 |
| Markings for cables up to Ø 16 mm | 7 | 7 |
| Number of parts | 2 | 2 |
| Art.-No. | 1269-03 | 1269-04 |
| Inner packaging/shipping | 5 / 50 | 5 / 50 |

International products

for accessory installation in accordance with national standards

One-gang box (Italian and American standard)



- for 3 modules in monoblock construction (single row)
- installation opening 60 x 90 mm

One-gang box (Italian and American standard)



- Screw spacing device 2 x 83.5 mm, for installing Italian and American inserts
- for 2x3 modules in monoblock construction (double row)
- installation opening 72 x 105 mm

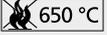
| | | |
|--|-------------------------|--------------------------|
| Length x Width x Depth | 100 x 68 x 55 mm | 128 x 128 x 80 mm |
| Screw spacing | 83 mm | - |
| Markings for cables and DIN EN conduits up to Ø 25 mm | 8 | - |
| Number of parts | 2 | 2 |
| Entry fields | 8 | 8 |
| possible DIN EN conduit sizes per entry field: 4 x 16 mm Ø, 3 x 20 mm Ø, 1 x 25 mm Ø, 1 x 32 mm Ø, 1 x 40 mm Ø | - | Yes |
|  | - | Yes |
| Art.-No. | 1200-00 | 1295-02 |
| Inner packaging/shipping | - / 100 | 1 / 10 |

One-gang box combinations (Swiss standard)



- incl. stabilising cover



| | |
|--|------------------------|
| Length x Width x Depth | 78 x 78 x 58 mm |
| Break-out openings Ø 20 mm | 9 |
| Combination conduit entries M20/25 | 2 |
| Number of nails | Yes |
|  650 °C /  | Yes / Yes |
|  /  | Yes / Yes |
| Art.-No. | 9918 |
| Inner packaging/shipping | - / 50 |

Flush-mounted box 2x1 to 4x1



- Nail channels used for Prefix® connection
- Increased robustness
- External nailing points
- With partitions and stabilization covers
- For device connection screws Ø 3 mm
- Max. tightening torque 0.5 Nm



| Length x Width x Depth | 137 x 77 x 70 mm | 197 x 77 x 70 mm | 257 x 77 x 70 mm |
|------------------------------------|------------------|------------------|-------------------|
| Conduit entries M20 | 6 | 6 | 6 |
| Conduit entries M25 | 6 | 6 | 6 |
| Combination | 2x1 | 3x1 | 4x1 |
| Combination conduit entries M20/25 | 2 | 2 | 2 |
| Drilling Center max. Ø 40 mm | -- | 2 | 4 |
| 650 °C / | Yes / Yes | Yes / Yes | Yes / Yes |
| | Yes | Yes | Yes |
| Art.-No. | 9902.22 | 9902.23 | 9902.24.40 |
| Inner packaging/shipping | - / 50 | - / 28 | - / 20 |

Flush-mounted box 2x2 to 4x2 and 3x3



- Nail channels used for Prefix® connection
- Increased robustness
- External nailing points
- With partitions and stabilization covers
- For device connection screws Ø 3 mm
- Max. tightening torque 0.5 Nm



| Length x Width x Depth | 137 x 137 x 70 mm | 197 x 137 x 70 mm | 257 x 137 x 70 mm | 197 x 197 x 70 mm |
|------------------------------------|-------------------|-------------------|-------------------|-------------------|
| Conduit entries M20 | 8 | 8 | 8 | 8 |
| Conduit entries M25 | 8 | 8 | 8 | 8 |
| Combination | 2x2 | 3x2 | 4x2 | 3x3 |
| Combination conduit entries M20/25 | 4 | 4 | 4 | 4 |
| Drilling Center max. Ø 40 mm | -- | 2 | 4 | 4 |
| 650 °C / | Yes / Yes | Yes / Yes | Yes / Yes | Yes / Yes |
| | Yes | Yes | Yes | Yes |
| Art.-No. | 9902.24 | 9902.26 | 9902.28 | 9902.29 |
| Inner packaging/shipping | - / 12 | - / 8 | - / 8 | - / 8 |

Set of Prefix® wing brackets



- Facilitates attachment to the reinforcement
- Fast, easy installation on rebar without support element before front formwork placed against it
- Holding in place using the Prefix® installation technology leaves both hands free for securing with tying wire



| | | |
|--------------------------------|---------------------------|---------------------------|
| Length x Width x Height | 150.1 x 59 x 16 mm | 150.1 x 59 x 16 mm |
| Number of wings | 4 | 12 |
| 650 °C | Yes | Yes |
| Art.-No. | 9940.25 | 9940.50 |
| Inner packaging/shipping | - / 5 | - / 10 |

Prefix® concrete construction socket



- Fast, easy installation on rebar without support element before front formwork placed against it
- Holding in place using the Prefix® installation technology leaves both hands free for securing with tying wire
- Can be combined to create standardised stable multiple combinations
- For device connection screws Ø 3 mm
- Max. tightening torque 0.5 Nm



| | |
|--------------------------|--------------|
| Depth | 97 mm |
| Exit opening Ø | 30 mm |
| Combination | 1x1 |
| 650 °C / | Yes / Yes |
| CE | Yes |
| Art.-No. | 9940 |
| Inner packaging/shipping | - / 10 |

Prefix® 2.0 concrete construction socket



- For device connection screws Ø 3 mm
- Max. tightening torque 0.5 Nm



| | | | |
|------------------------------------|--------------|----------------|----------------|
| Depth | 90 mm | 90 mm | 90 mm |
| Combination | 1x1 | 2x1 NUP | 3x1 NUP |
| Break-out openings Ø 20 mm | 8 | 16 | 24 |
| Break-out openings Ø 25 mm | 8 | 16 | 24 |
| Combination conduit entries M20/25 | 4 | 4 | 4 |
| Drill holes M32 | 4 | 4 | 4 |
| Opening wall outlet | 30 | 30 mm | 30 |
| 650 °C / | Yes / Yes | Yes / Yes | Yes / Yes |
| CE | Yes | Yes | Yes |
| Art.-No. | 9941 | 9941.25 | 9941.35 |
| Inner packaging/shipping | - / 15 | - / 5 | - / 5 |

HaloX® system overview for precast concrete

for luminaires and loudspeakers

System overview of HaloX® for precast concrete

1 Installation compartment for luminaires / loudspeakers and operating devices



max. 140 mm
(with tolerance compensation)
max. 180 mm
(without tolerance compensation)



max. 210 mm
(with tolerance compensation)
max. 250 mm
(without tolerance compensation)

Adhesive attachment
one-piece housing with universal mineral fibre-board

Magnet attachment
one-piece housing with universal plastic plate for the magnet recess

Adhesive attachment
one-piece housing with universal mineral fibre-board

Magnet attachment
one-piece housing with universal plastic plate for the magnet recess

System magnet
1299-69 | p. 262



System magnet PLUS
1299-70 | p. 262



System magnet
1299-69 | p. 262



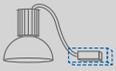
System magnet PLUS
1299-70 | p. 262



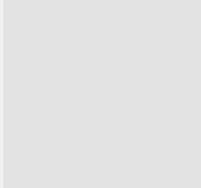
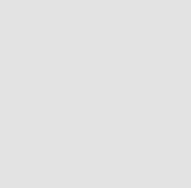
without additional space for operating devices



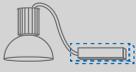
Additional space for operating devices



up to max. 150 x 90 x 50 mm*



Additional space for larger operating devices



up to max. 280 x 90 x 50 mm*



2 Installation depth



Installation height
> 110 mm



Extension rings
25/50 mm
1282-25/50 | p. 263



Extension rings
25/50 mm
1283-25/50 | p. 263

3 Accessories



Wall installation in vertical formwork



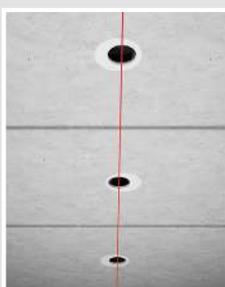
Wall installation set for fitting in vertical formwork
1299-60...64 | p. 262

Easy to locate after plastering



Signal cover
1281-31...33 | p. 262

* max. dimension of operating devices must be checked depending on the installation opening



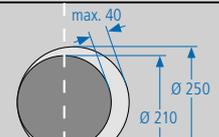
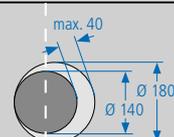
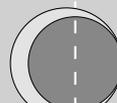
Tolerance compensation

Depending on the installation diameter, at a later date you can correct inaccuracies which occurred during the laying of the slab ceilings. Use the KAISER VARIOCUT hole cutter to make accurate installation openings in the front parts.

HaloX® 180



HaloX® 250



HaloX® concrete installation housing (precast concrete)

System HaloX® is designed as a single piece for fitting in precast concrete. The housings can easily be aligned on the formwork table by means of markings on the housing. The housing with pre-fitted mineral fibreboard allows easy glueing and the housings can be turned by 360° on the formwork table even after glueing. Housings with pre-fitted front parts to hold the system magnet (Art. No. 1299-69/1299-70) are available for magnet attachment. Laying tolerances which may occur during the fitting of panel elements are compensated for via the housing sizes in connection with a variable cut-out area. Because of the compact dimensions of the housings, the reinforcement can easily be placed around the housing. For luminaires or loudspeakers with installation depths equal to or greater than 110 mm, the installation compartment of the HaloX® housings can be increased on the on-site concrete building site by means of extension rings. The fitting of the conduits on-site takes place without the need for tools for M20/M25 conduits without any internal shortening of the conduits.

- For precast concrete slab ceilings and wall elements.
- 3 housing sizes with and without tunnel
- Single-part housings with integrated mineral fibreboard for easy adhesive fixing
- One-part housings with plastic panel for magnet attachment
- Toolless entry technology for M20/M25 conduits
- Compensation for laying tolerances on the concrete building site
- Optimal heat management thanks to maximum surface contact with the concrete



FLUSH-MOUNTING

CAVITY WALL

CONCRETE

HOUSINGS

FIRE PROTECTION

Installation



Mounting of the single-piece housing with mineral fibre-board...



...fitting of the one-part housing by means of system magnet (Art. No. 1299-69/1299-70).



Prefabricated element with integrated HaloX® housings is laid on concrete building site.



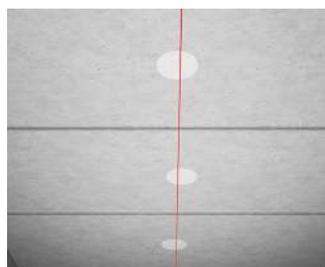
Subsequent adjustment of the housing height on the building site.



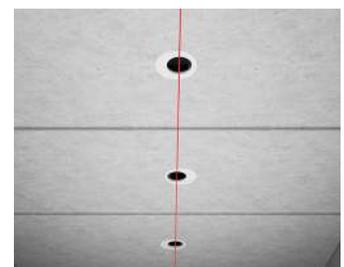
Toolless combination entry of M20/M25 conduits with conduit stop - no later shortening of the conduits.



After fitting of the conduits, concreting on the planned ceiling thickness takes place with the on-site mixed concrete process.



Panel element laying tolerances can be compensated for using the universal front parts (see system overview).



Cut the installation opening e.g. with the MULTI 4000 (Art. No. e.g. with 1083-10).

PLUGGABLE

CONNECTIVITY

CABLE GLANDS

TOOLS

SERVICE

HaloX® 180 / 250 for precast concrete for adhesive attachment

- One-part housing with integrated mineral fibreboard
- Toolless combination entry for M20/M25 conduits
- Conduit entry limitation to prevent the need to shorten the conduit inside
- Suitable with signal cover



3D animation

| System | HaloX® 180 | HaloX® 250 |
|---|----------------|----------------|
| Ceiling exit (CE) Ø | 0-180 mm | 0-250 mm |
| Max. installation depth luminaire / loudspeaker | 110 mm | 110 mm |
| LED wattage max. | 35 Watt | 45 Watt |
| Lamp wattage max. | 75 Watt | 100 Watt |
| Housing diameter Ø | 210 mm | 280 mm |
| Depth incl. front part | 120 mm | 120 mm |
| Combination entry for M20/M25 conduits | 2 | 2 |
| Art.-No. | 1282-71 | 1283-71 |
| Inner packaging/shipping | - / 10 | - / 10 |

HaloX® 180 / 250 with transformer tunnel (for precast concrete)

- One-part housing with integrated mineral fibreboard
- Toolless combination entry for M20/M25 conduits
- Conduit entry limitation to prevent the need to shorten the conduit inside



3D animation

| System | HaloX® 180 | HaloX® 180 | HaloX® 250 |
|---|----------------|----------------|----------------|
| Ceiling exit (CE) Ø | 0-180 mm | 0-180 mm | 0-250 mm |
| Max. installation depth luminaire / loudspeaker | 110 mm | 110 mm | 110 mm |
| LED wattage max. | 35 Watt | 35 Watt | 45 Watt |
| Lamp wattage max. | 75 Watt | 75 Watt | 100 Watt |
| Housing diameter Ø | 210 mm | 210 mm | 280 mm |
| Depth incl. front part | 120 mm | 120 mm | 120 mm |
| Tunnel length | 190 mm | 325 mm | 325 mm |
| Tunnel width | 140 mm | 140 mm | 140 mm |
| Tunnel height | 85 mm | 85 mm | 85 mm |
| Combination entry for M20/M25 conduits | 4 | 4 | 4 |
| Art.-No. | 1282-72 | 1282-73 | 1283-73 |
| Inner packaging/shipping | - / 10 | - / 10 | - / 10 |

HaloX® 180 / 250 for precast concrete for magnet attachment

- One-part housing for holding the system magnet (Art. No. 1299-69) and system magnet PLUS (Art. No. 1299-70)
- Toolless combination entry for M20/M25 conduits
- Conduit entry limitation to prevent the need to shorten the conduit inside
- Suitable with signal cover



3D animation

| System | HaloX® 180 | HaloX® 250 |
|---|----------------|----------------|
| Ceiling exit (CE) Ø | 0-180 mm | 0-250 mm |
| Max. installation depth luminaire / loudspeaker | 110 mm | 110 mm |
| LED wattage max. | 35 Watt | 45 Watt |
| Lamp wattage max. | 75 Watt | 100 Watt |
| Housing diameter Ø | 210 mm | 280 mm |
| Depth incl. front part | 120 mm | 120 mm |
| Combination entry for M20/M25 conduits | 2 | 2 |
| Art.-No. | 1282-74 | 1283-74 |
| Inner packaging/shipping | - / 10 | - / 10 |

HaloX® 180 / 250 with tunnel for precast concrete for magnet attachment

- One-part housing for holding the system magnet (Art. No. 1299-69) and system magnet PLUS (Art. No. 1299-70)
- Toolless combination entry for M20/M25 conduits
- Conduit entry limitation to prevent the need to shorten the conduit inside
- Suitable with signal cover



3D animation

| System | HaloX® 180 | HaloX® 180 | HaloX® 250 |
|---|----------------|----------------|----------------|
| Ceiling exit (CE) Ø | 0-180 mm | 0-180 mm | 0-250 mm |
| Max. installation depth luminaire / loudspeaker | 110 mm | 110 mm | 110 mm |
| LED wattage max. | 35 Watt | 35 Watt | 45 Watt |
| Lamp wattage max. | 75 Watt | 75 Watt | 100 Watt |
| Housing diameter Ø | 210 mm | 210 mm | 280 mm |
| Depth incl. front part | 120 mm | 120 mm | 120 mm |
| Tunnel length | 190 mm | 325 mm | 325 mm |
| Tunnel width | 140 mm | 140 mm | 140 mm |
| Tunnel height | 85 mm | 85 mm | 85 mm |
| Combination entry for M20/M25 conduits | 4 | 4 | 4 |
| Art.-No. | 1282-75 | 1282-76 | 1283-76 |
| Inner packaging/shipping | - / 10 | - / 10 | - / 10 |

Signal cover

NEW

INNOVATION

- Protects the interior of the housing
- Three stable signal bristles and strong colouring for easy retrieval from the plastered rough ceiling.
- Serrated edge structure for a clean installation opening



| For installation opening | 68 mm | 75 mm | 80 mm |
|--------------------------|----------------|----------------|----------------|
| Art.-No. | 1281-31 | 1281-32 | 1281-33 |
| Inner packaging/shipping | 10 / 100 | 10 / 100 | 10 / 100 |

System magnet

NEW

INNOVATION



Produkt-Film

- for accurate positioning during automated or manual production
- with an anti-twist device for one-gang boxes
- adhesive force 500 N (50 kg)
- Suitable for the following items:
- HaloX® installation housing / item no. 1282-74/-75/-76 and 1283-74/-76
- B² one-gang junction boxes / item no. 1262-06, 1263-06, 1264-06
- 115 large slab ceiling box / item no. 1227-16
- End and transition bushes / item no. 1261-82/-83/-84
- Wall and ceiling transitions 30° / item no. 1261-92/-93/-94



| | |
|--------------------------|----------------|
| Art.-No. | 1299-69 |
| Inner packaging/shipping | - / 10 |

System magnet PLUS

NEW

INNOVATION



Produkt-Film

- for correct positioning during automated production as well as automated removal and storage
- with an anti-twist device for one-gang boxes
- adhesive force 500 N (50 kg)
- Suitable for the following items:
- HaloX® installation housing / item no. 1282-74/-75/-76 and 1283-74/-76
- B² one-gang junction boxes / item no. 1262-06, 1263-06, 1264-06
- 115 large slab ceiling box / item no. 1227-16
- End and transition bushes / item no. 1261-82/-83/-84
- Wall and ceiling transitions 30° / item no. 1261-92/-93/-94



| | |
|--------------------------|----------------|
| Art.-No. | 1299-70 |
| Inner packaging/shipping | - / 10 |

Extension rings HaloX®

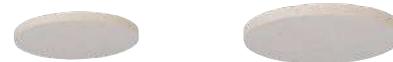
· To increase installation depth



| Height | 25 mm | 50 mm | 25 mm | 50 mm |
|---|----------------|----------------|----------------|----------------|
| System | HaloX® 180 | HaloX® 180 | HaloX® 250 | HaloX® 250 |
| Max. installation depth luminaire / loudspeaker | + 25 mm | + 50 mm | + 25 mm | + 50 mm |
| For Art. No. | 1282-xx | 1282-xx | 1283-xx | 1283-xx |
| Art.-No. | 1282-25 | 1282-50 | 1283-25 | 1283-50 |
| Inner packaging/shipping | - / 10 | - / 10 | - / 10 | - / 10 |

Replacement mineral fibreboard for HaloX® 180, HaloX® 250

- Replacement mineral fibreboard 1282-27 for housings with Art. No. 1282-71/72/73
- Replacement mineral fibreboard 1283-27 for housing with Art. No. 1283-71/73



| System | HaloX® 180 | HaloX® 250 |
|--------------------------|----------------|----------------|
| Art.-No. | 1282-27 | 1283-27 |
| Inner packaging/shipping | - / 10 | - / 10 |

HaloX® system – Technical information

Fire protection – minimum concrete covering according to fire resistance class

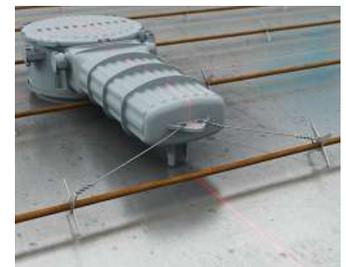
| | HaloX® 100/180/250 |
|---------------------------|--------------------|
| EI 30 ceiling plastered | |
| EI 30 ceiling unplastered | |
| EI 60 ceiling plastered | |
| EI 60 ceiling unplastered | |
| EI 90 ceiling plastered | |
| EI 90 ceiling unplastered | |

Note

Housings with Art. Nos. 1282-76 and 1283-76 must be secured in the tunnel area against floating!



Peripheral bridges on the tunnel provide additional protection against possible floating. Rebars can be laid on these and tightened together with the reinforcement.



Alternatively, tie lugs fitted at the end of the tunnel provide additional protection against the possible floating of the tunnel in precast concrete.

Housing volume (dm³)

| | HaloX® 100 | HaloX® 180 | HaloX® 250 |
|---|------------|------------|------------|
| Housing | 1,2 | 3,3 | 6,1 |
| with tunnel 190 | 2,4 | 4,5 | - |
| with tunnel 325 | - | 5,3 | 8,1 |
| Volume increase with the use of extension rings / intermediate frames in dm³ | | | |
| Extension ring/intermediate frame 10 | 0,11 | - | - |
| Extension ring/intermediate frame 25 | 0,28 | 0,8 | 1,5 |
| Extension ring/intermediate frame 50 | 0,56 | 1,6 | 3,0 |