# **Electrical installation in concrete.**
Boxes, housings and systems.

LDG Electric Solutions

KAISER

# **Service.** The easy way.

KAISER's innovative brand products stand out thanks to the product-oriented service that comes with them. This allows both you and your customers to take advantage of all the benefits they offer.

In simple and intuitive videos, we explain all the benefits of our products and processes. A clever product filter in the online catalogue at www.kaiser-elektro.de helps you to make the right product selection. Tender and specifications, CAD data and BIM data make professional planning easy for you.

- Online product catalogue with many functions for everyday tasks
- Download and request brochures, catalogues, assembly instructions and much more
- Information on seminars, trade fairs and events
- Technical application advice
- Marketing and service numbers
- Sources of supply
- Article master data and prices
- Tender specifications in multiple formats
- BIM data for your planning programme
- CAD data for proper construction

https://to.kaiser-elektro.de/planung

# Building Information Modelling. **The future of building construction.**

BIM

Building Information Modelling (**BIM**) opens up a new planning and building culture and is fast becoming the standard in building design. Based on three-dimensional computer models, the planning, execution and operation of a building can be virtually depicted and optimized over its entire life cycle.

In a cooperative planning process with all parties involved, **all geometric and technical data** are successively recorded, supplemented and cross-checked. These data describe e.g. the material, lifetime, environmental or other characteristics such as acoustic or fire protection properties. This allows for the identification and elimination of planning errors, risks, disrupted construction processes, collisions of work sections and unnecessarily high operating costs in the early planning stages already. In doing so, unexpected cost increases during construction and operation are avoided.

# For planning, implementation and operation. **Support throughout the entire building life cycle with KAISER BIM data.**

KAISER provides planners, architects, engineers and specialist firms with extensive support in the planning, implementation and operation of their BIM construction projects:

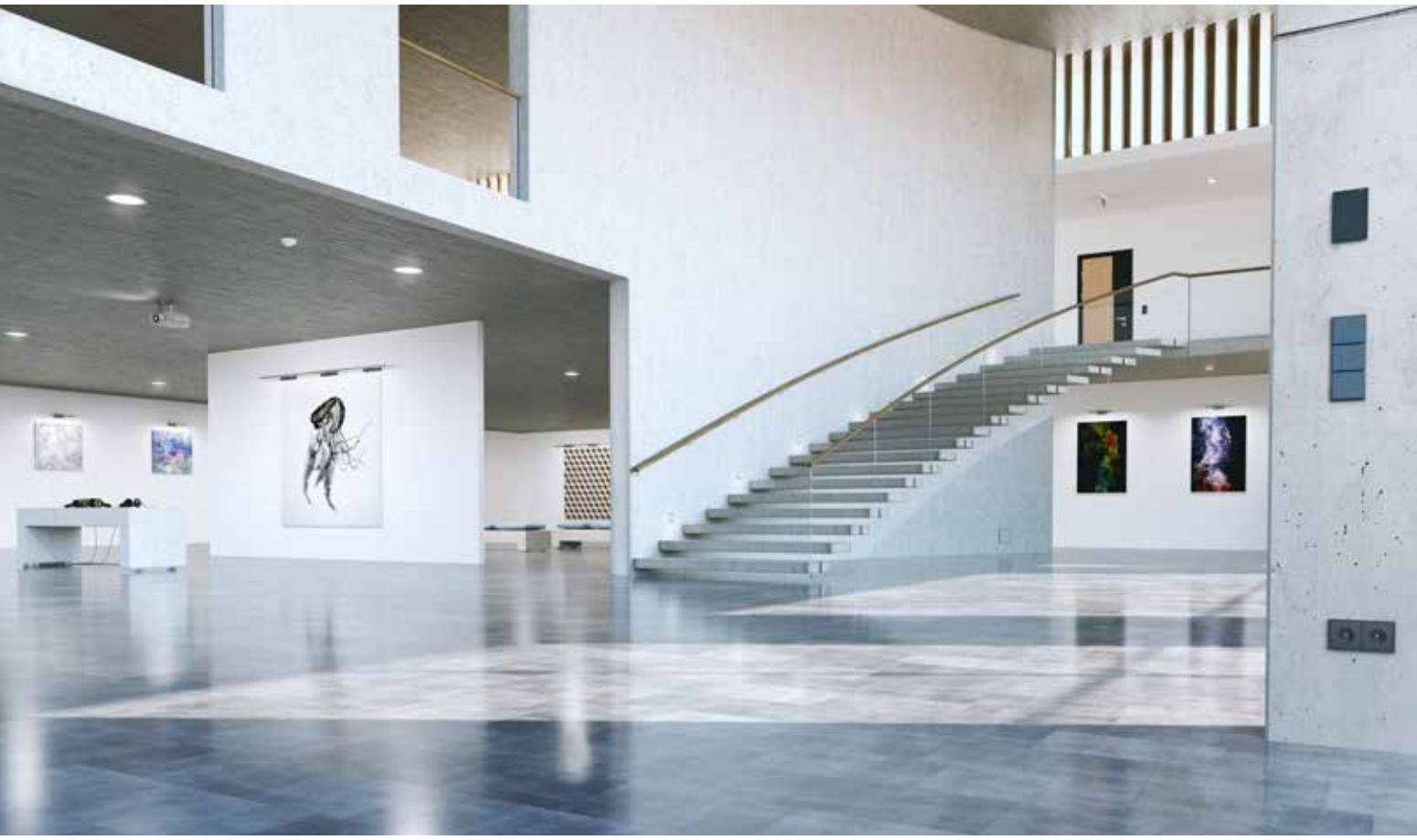
The user can directly access the information section on tendering and planning on the KAISER homepage via the link https://to.kaiser-elektro.de/planung.

At https://kaiser.partcommunity.com, 3D Multi-BIM CAD data are available. Autodesk Revit users can also use the BIMcatalogs.net content plugin. In addition to downloading product data, you can configure products to suit your specific requirements. After configuring the product, the corresponding CAD model can be generated together with a PDF data sheet and incorporated into the planning and documentation.

All changes in BIM are directly reflected in the orders of magnitude, quantities and costs of the construction project. This allows all project parties to be informed rapidly and also ensures precise cost, schedule, and quality control.

Tenders in all common formats for KAISER products can be found at http://www.ausschreiben.de/katalog/Kaiser

KAISER - THE BASIS OF GOOD INSTALLATION.



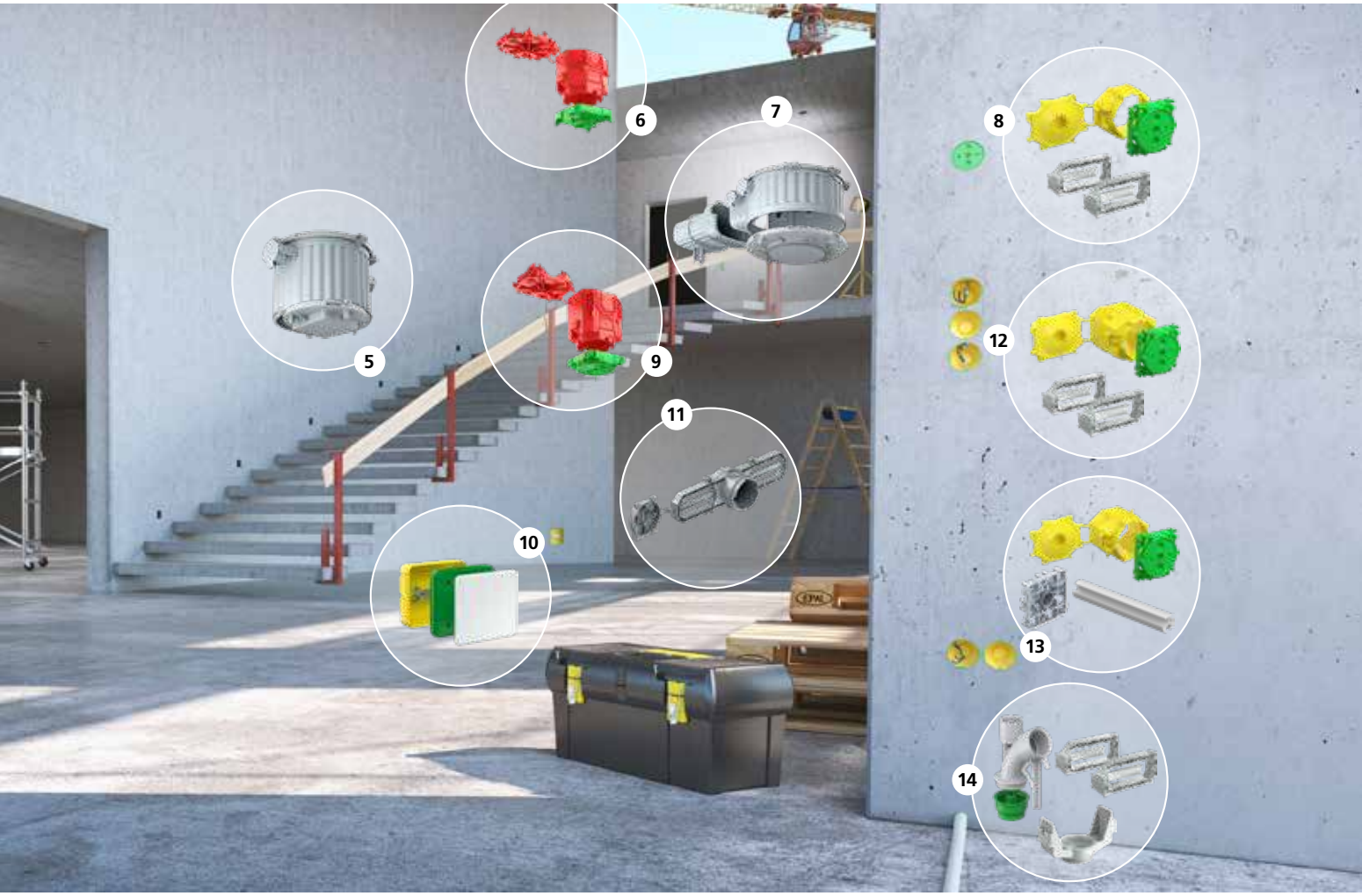
# On-site mixed concrete.

**On-site mixed concrete** is typically used for the production of large parts and surfaces. Here, the fresh concrete, delivered or mixed on site, is filled into the formwork prepared with reinforcement and installation components and then compacted. After curing, the formwork is removed and the walls or slabs are finished.
Wooden formwork is usually used for on-site mixed concrete. These formworks may also be coated with plastics or synthetic resins. The boxes are attached to the formwork by simply nailing them on, thus ensuring a secure hold. Fastening to steel formwork is usually done with expansion anchors, magnets, adhesive foils or hot glue.

**The modular KAISER system** is universally applicable for all concreting methods and formwork types. The perfectly coordinated individual modules guarantee exact planning and smooth processing with future-proof installation. Robust Prefix® supporting and connecting elements as well as extensive accessories and tools complete the programme in a practice-oriented way. The different colours of the individual components facilitate correct assembly.

**The installation of the boxes, housings and systems is carried out with empty conduits for the supply lines.** Boxes and conduits form a closed system. All connections of the multi-part products to each other as well as to conduits and cables are precisely matched. The connection openings are made with standard tools, without tools or with KAISER system tools, so that the stability and absolute leakproofness of the entire system is ensured and no concrete can penetrate into boxes, housings, casings or conduits.

**1** HaloX® 100 Multi-conduit entry
**2** B¹ Universal ceiling exit
**3** HaloX® 250 with tunnel 325 for on-site mixed concrete, HaloX®250 Universal front part
**4** Formwork protection
**5** HaloX® 100 for on-site mixed concrete, HaloX® 100 front part, square
**6** B¹ Ceiling junction box
**7** HaloX® 180 with tunnel 190 for on-site mixed concrete, HaloX® 180 facing concrete front part
**8** B¹ One-gang box, B¹ Prefix® system wing set
**9** B¹ Large conduit ceiling junction box
**10** Potential equalisation casing 16²
**11** Prefix® Concrete building box 35
**12** B¹ Large conduit one-gang junction box, B¹ Prefix® system wing set
**13** B¹ One-gang junction box, abutment, support element Ø 20 mm
**14** Wall and ceiling transitions 30°, B¹ Prefix® system wing set, B¹ Prefix® wall outlet adapter Ø 25 mm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# B¹ The new standard in on-site mixed concrete.

## The first choice for **assembly**...

ASSEMBLY

Innovative conduit opening

All B¹ wall applications have 2 stable slots for Prefix® system wings

Stably combined on front part and box body

Simple insertion and inter-laying of commercially available conduits

Product video assembly work

NEW

# ... and the **installation**.

INSTALLATION

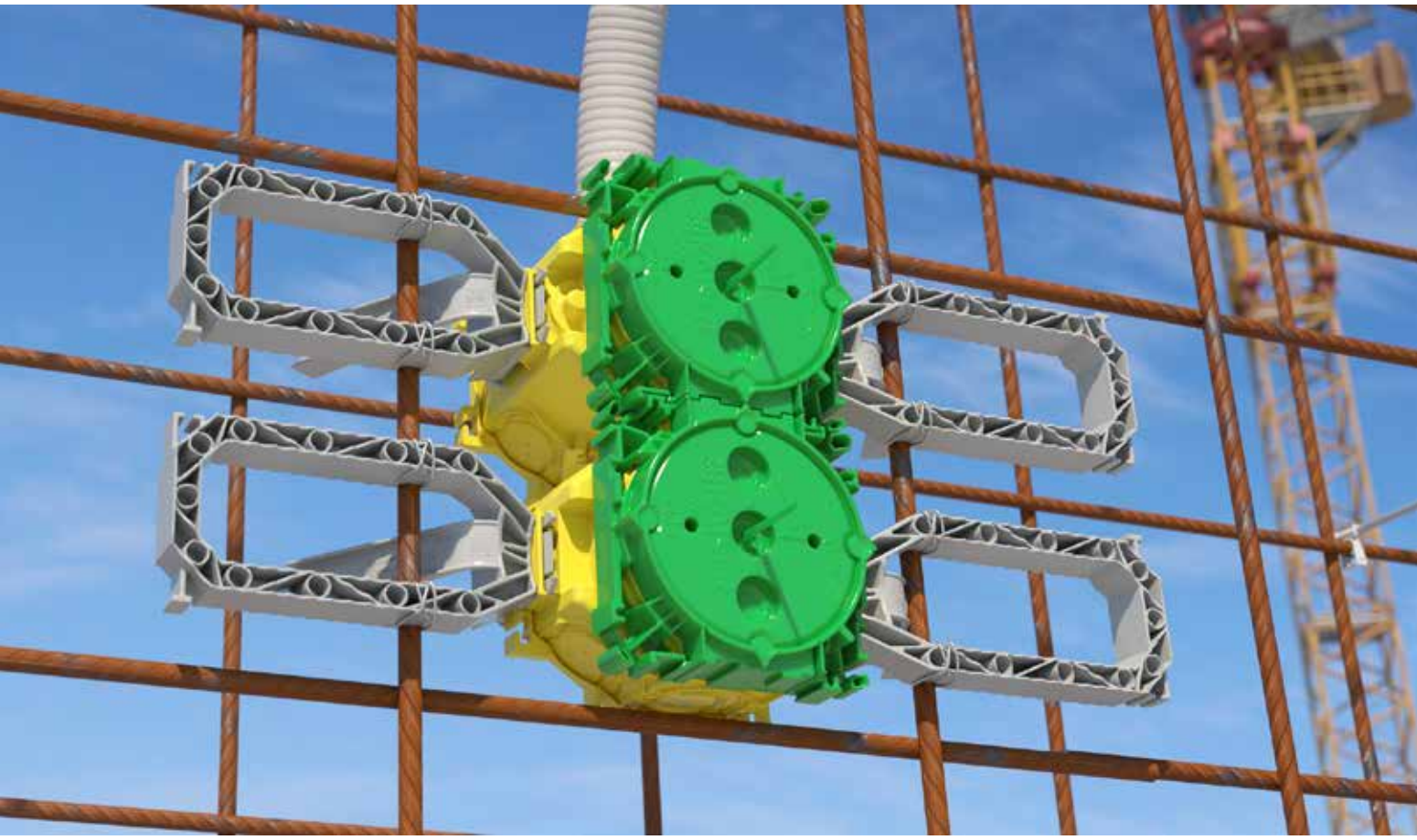
Installation of pre-wired sockets

Bridges are easy to break out

Large mounting and installation space

Signal bristles for easy location of the boxes after removing the formwork

Product video Installation



# On-site mixed concrete: B¹
# Wall installation.

NEW

**The new B¹ concrete construction programme** is optimally tailored to the construction site and installation practice. The insertion and installation work is based on the latest technology in handling and function. The electrical installation in the wall performed after stripping the formwork is also equipped with many innovative features and functions for a modern installation. Thus, a comprehensive range of boxes is available, e.g. one-gang boxes, one-gang junction boxes and electronic boxes. This allows you to quickly and precisely prepare the installation for all types of flush-mounted inserts such as switches, sockets or LED luminaires as well as the associated wiring. With the new stable connector system, you can connect the front part and the box body securely, making it easy to create any combination.

**The new prefix® system wings** can be attached to all box bodies. Each B¹ box is equipped with two slots for Prefix® system wings to allow easy installation without support.

**The improved support system** gives the components a secure hold in the upright formwork. One-gang boxes that are mounted to the working formwork with dowels or nails do not require any further securing except in anticipation of extreme loads. Boxes or housings that are fastened with magnets or hot glue must be supported on the second side of the formwork. If no boxes or housings are provided on the working formwork (e.g. on an outside wall), but rather on the opposing formwork side, abutments can be mounted on the working formwork and the required spacing can be created with support elements or conduits.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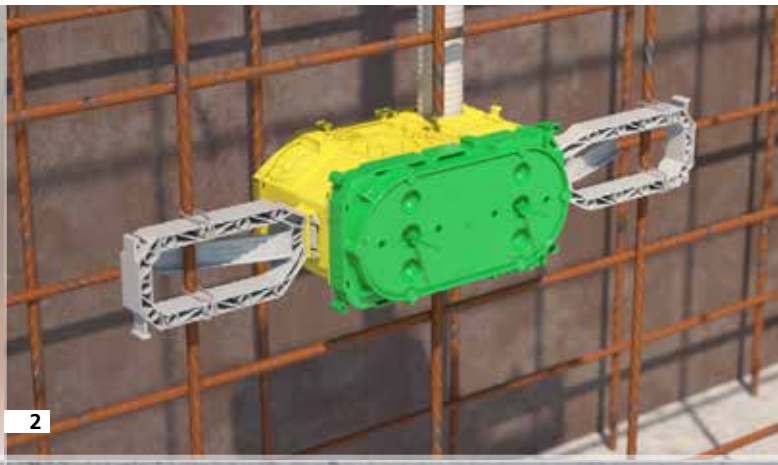
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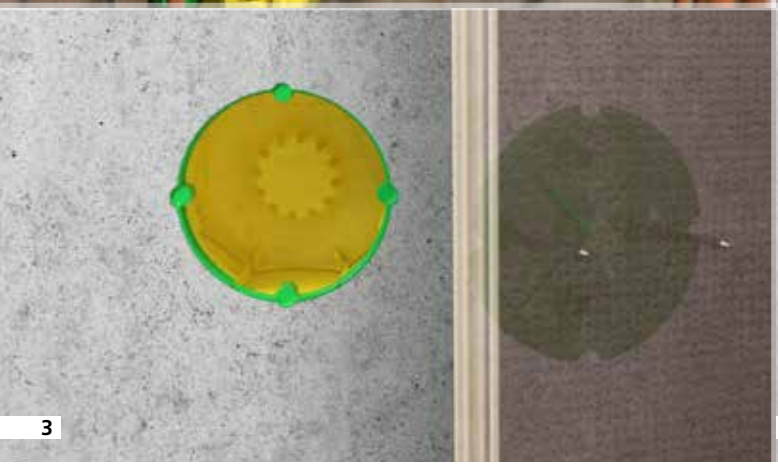
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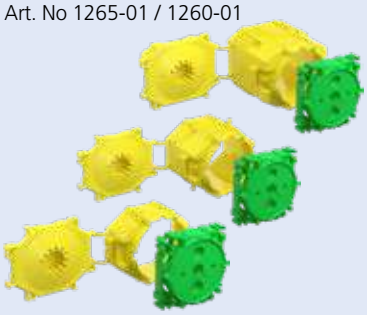
**1** Conduits can be inserted into the innovative conduit opening in a controlled manner. The box bottom can be closed securely by hand.

**2** All box bodies are equipped with slots for Prefix® system wings to allow easy installation to the opposing formwork.

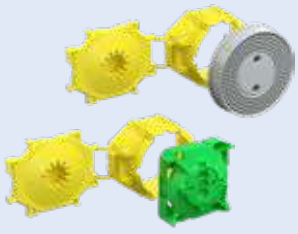
**3** The plaster skin tears when the formwork is removed or can be opened with a hammer blow.

**4** With a large installation space and various possibilities for cable feed-through in combinations, the boxes offer maximum convenience during accessory installation.

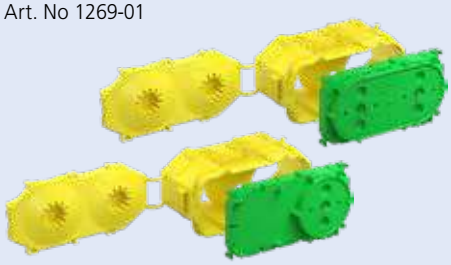
**B¹ One-gang box**
Art. No 1255-01
**B¹ One-gang junction boxes**
Art. No 1265-01 / 1260-01



**B¹ Wall light connection box**
Art. No 1248-01
**B¹ Universal wall exit**
Art. No 1248-03



**B¹ Electronics box**
Art. No 1268-01
**B¹ Two-gang junction box**
Art. No 1269-01



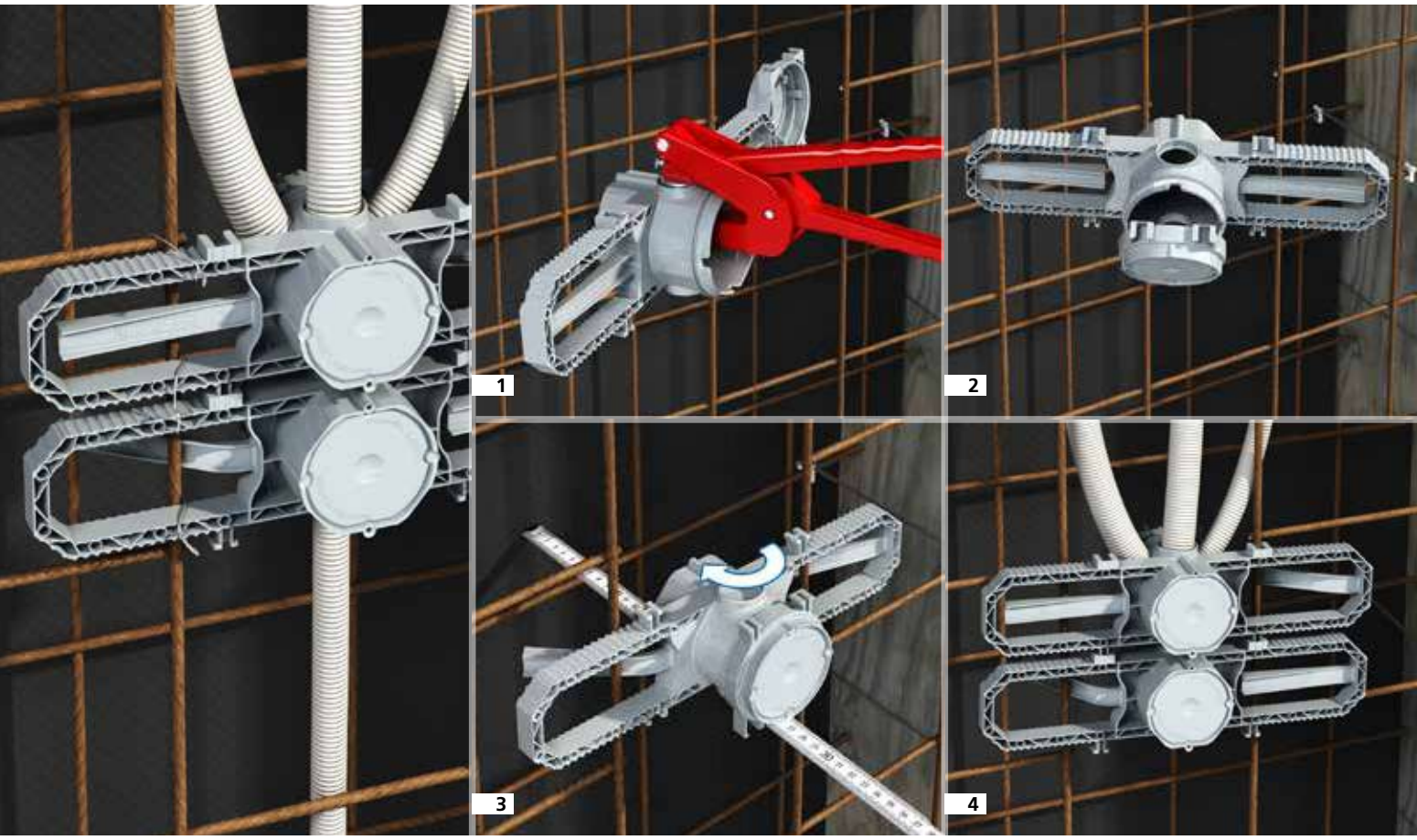
**Distance piece 91**
Art. No 1259-04

**B¹ Prefix® system wing set**
Art. No 1211-00


# **Prefix®.** One-gang junction box for fixing to the reinforcement.

**One-gang junction box and wall light connection box with Prefix® installation technology** for simple and fast installation to the opposing formwork without support. The one-piece boxes with two integrated front parts exert high pressure to the opposing formwork thanks to the spring-loaded mounting clamps and thus ensure the exact fit of the boxes and a clean wall image.

- Simple and fast installation for opposing formwork without support element and abutment
- Prefixing using Prefix® installation technology leaves both hands free for attaching with wires
- Suitable for 20-60 mm concrete covers
- For facing concrete installations to the opposing formwork
- Can be combined to create standardized multiple combinations




**Prefix® concrete building boxes** can be used on both sides for concrete covers from 20 mm to 60 mm.

**1** It is easy to make conduit entries using KAISER punch pliers, ensuring a perfect fit.

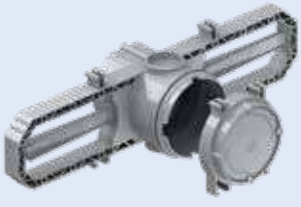
**2** Markings on the front part and the box ensure easy assembly of the box.

**3** The front side of the one-gang junction box must protrude between 5 mm and 20 mm beyond the wall thickness. This creates optimal pressure on the opposing formwork.

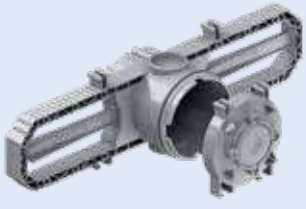
**4** Insert conduits and pre-fit the box to the reinforcement quickly and easily using Prefix® installation technology.

Product video

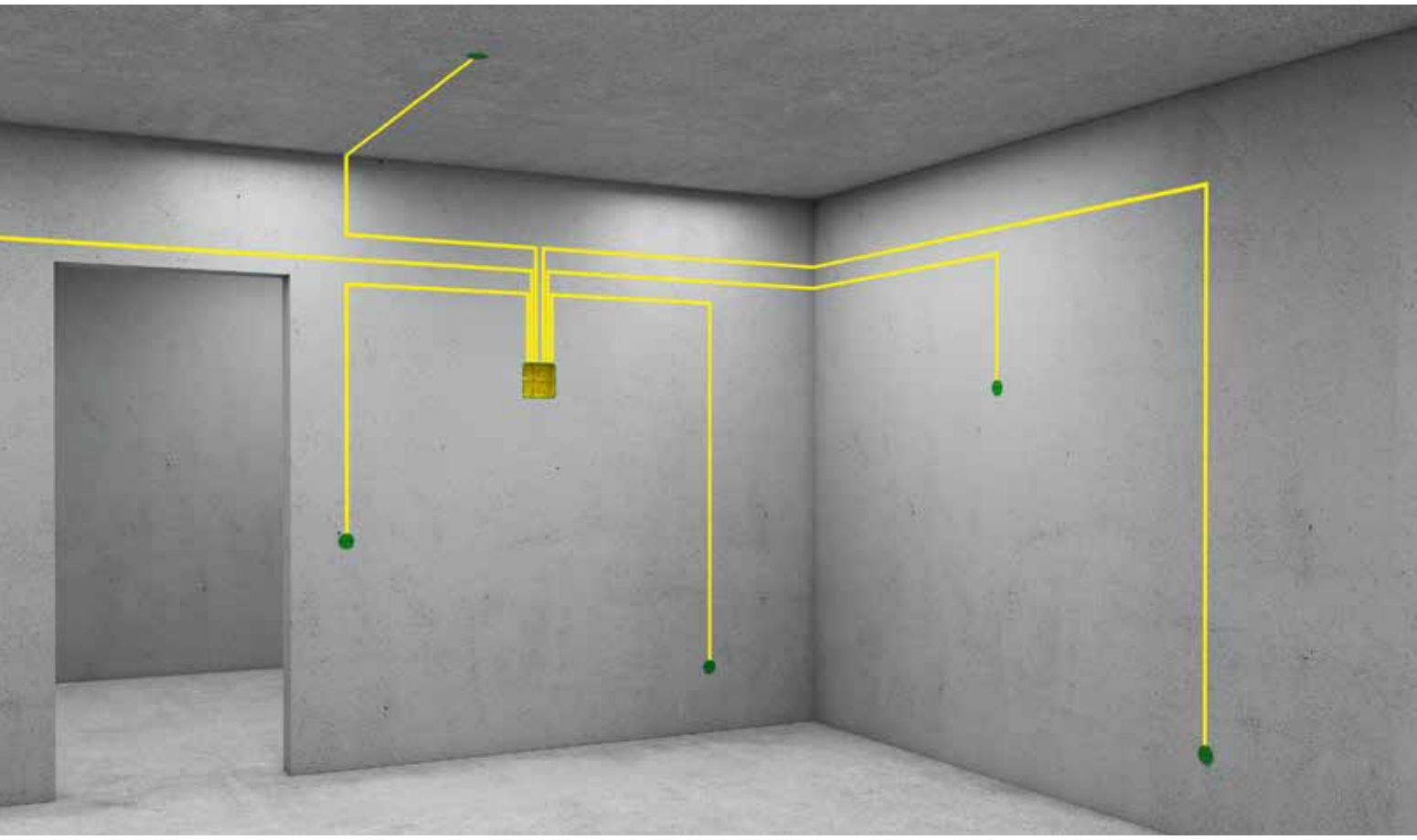
**Prefix® concrete building box 60**
**One-gang junction box**
Art. No 1211-61



**Prefix® concrete building box 35**
**Wall light connection box**
Art. No 1211-36



For exact entries for cables and conduits
**Punch pliers** Art. No 1286-33/34



# **Junction casings in all sizes and for all purposes.** Practical housing sizes. Robust construction.

**Using junction casings for the electrical installation** offers a lot of flexibility and freedom for future modifications to the electrical system. The complete wiring for this type of installation is done according to DIN 18015-3 in a central junction casing from which all supply lines are laid radially to switch and light sources. Pulling the cables through the empty conduit system is also easier to manage when using junction casings.

**In case of changes of use** of spaces, lighting groups, for example, can be reassigned to a circuit quickly and easily by changing the wiring in the junction casing. To accommodate different electrical circuits, the junction casings can be wired separately in a standardized manner by using separator walls. Depending on the junction casing size, cable cross-sections of up to 16 mm² can be inserted and wired.

**Once the wiring work is complete**, all junction boxes can be closed by means of an end cap with a screw fastening in accordance with VDE regulations.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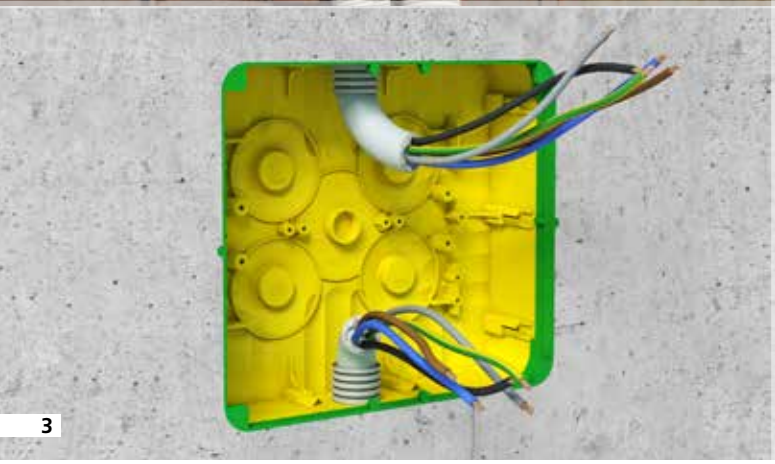
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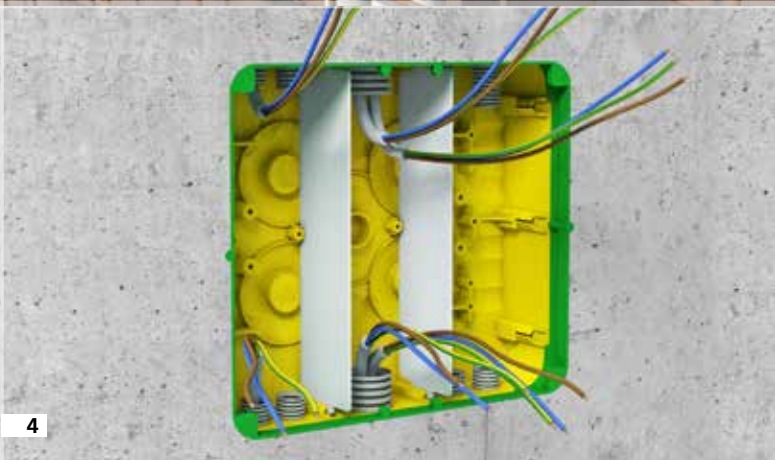
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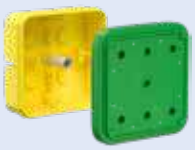
**1** Junction casings have a generous surface area to accommodate installation conduits up to Ø 40 mm
**2** For installation on the opposing formwork side, the rear part of the junction casing has slots for support with one or more support elements with abutments
**3** KAISER junction casings offer plenty of space for professional electrical installation according to DIN 18015-3
**4** Separator walls ensure that electrical circuits are safely separated

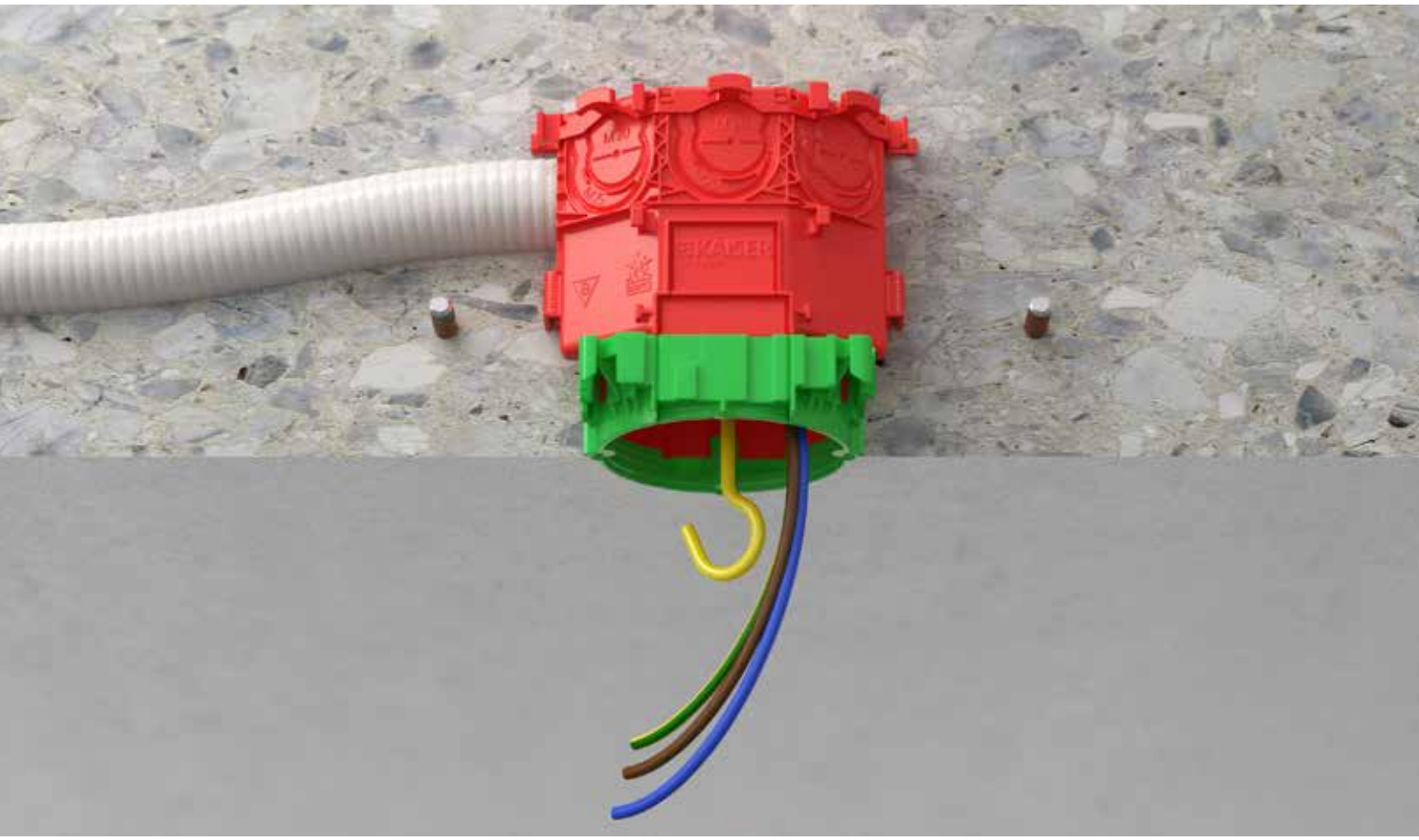
**Junction casing**
**128 x 128 x 80 mm**
Art. No 1295-02

**Junction casing**
**180 x 180 x 84 mm**
Art. No 1296-02



**Junction casing**
**250 x 220 x 82 mm**
Art. No 1297-02

For more junction casings, see page 19.



# On-site mixed concrete: B¹

NEW

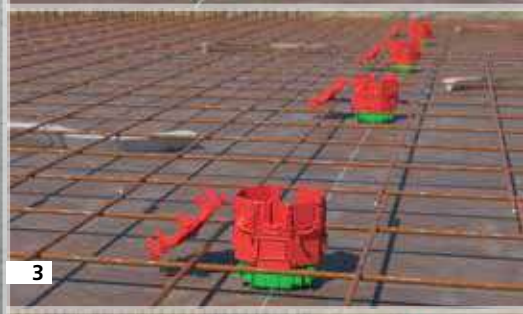
## Ceiling installation.

**The new ceiling boxes and proven ceiling elements** guarantee stable and accurate installation openings with high installation comfort. The KAISER range offers installation boxes with flexible conduit entry options up to M40 for all ceiling applications. Screw-in, fully insulated light hooks provide a secure fit. Exits with openings of Ø 35 or Ø 60 mm always offer sufficient space for convenient installation and, if required, a universal mounting surface for quick and easy installation.

**The new B¹ ceiling boxes with innovative conduit entries** enable conduits to be easily inserted into several ceiling boxes arranged in a row without having to cut them during the laying work. Due to the conduit entries located higher up, additional cut-outs of the reinforcement bars are unnecessary, ensuring fast insertion of the empty conduits on the ceiling.

The small ceiling boxes, for example, are suitable as domed boxes for partition walls.

**Universal mounting surface:**
The screws used to attach the accessory can be simply screwed into the universal mounting surface.



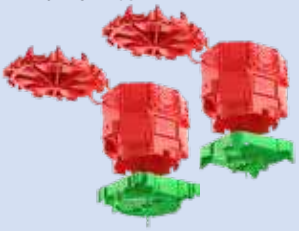
B¹ **Large conduit ceiling junction box** with conduit entry options up to M40. Ideal for pre-assembled cables.

**1** The shallow front part allows easy fixing to the ceiling formwork before the reinforcement bars are added.

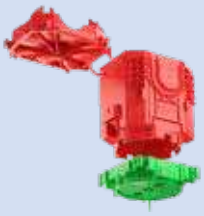
**2** The conduit entries are above the lower reinforcement layer, so that no cutting of the reinforcement bars is necessary.

**3** The advantage of the new conduit entry is that empty conduits can be inserted in several ceiling junction boxes without cutting the conduit beforehand.

**B¹ Ceiling junction box**
Art. No 1265-11
Art. No 1265-12



**B¹ Large conduit ceiling junction box**
Art. No 1260-11



**B¹ Universal ceiling exit**
Art. No 1249-13
Art. No 1265-13

**B¹ Domed box 45°**
Art. No 1249-11
Art. No 1249-12

**Slab ceiling large box 115**
Art. No 1227-50

**Slab ceiling box for retrofitting**
Art. No 1247-01

**Universal ceiling and wall exit**
Art. No 9959

**Ceiling exit**
Art. No 9955

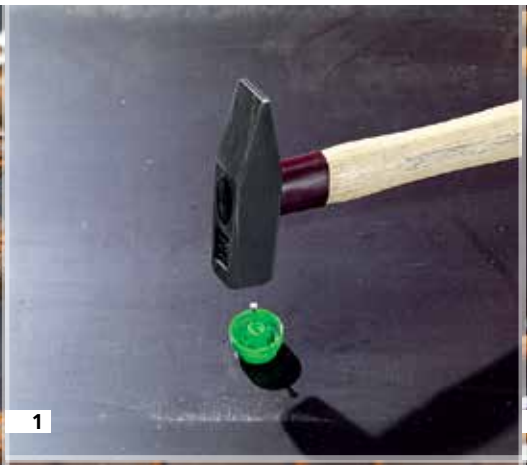
**Light hook**
Art. No 1225-.../1226-...

# **Wall and ceiling transitions.**
# For empty conduit installation in on-site mixed concrete.

**End and transition bushes as well as wall and ceiling transitions** ensure a continuously functioning empty conduit system at transition points. The particularly small design of the end and transition bushes allows you to omit empty conduits even between closely spaced reinforcing bars without the need for time-consuming processing. The optimum radius of the wall and ceiling transitions and the precise conduit slots prevent protruding edges at transitions, thus guaranteeing the flexible pulling in of cables from both directions.

- Small design for easy installation between closely spaced reinforcement bars
- Easy cable entry due to optimal transition radius
- Installation on the opposing formwork with support element and abutment
- 2-part design with secure catch mechanism
- Easy removal of the plaster skin
- Small visible surface, clean wall or ceiling appearance

The optimal radius of the transitions ensures flexibility when pulling cables in.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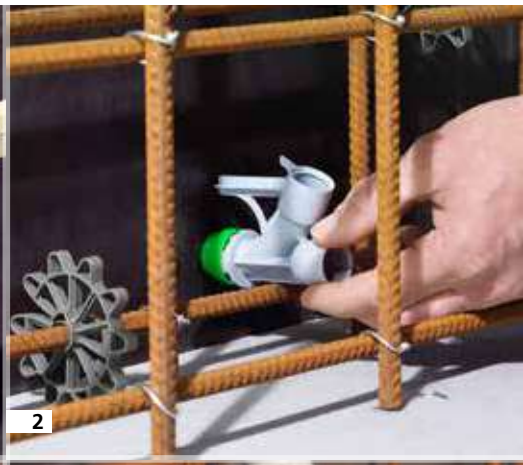
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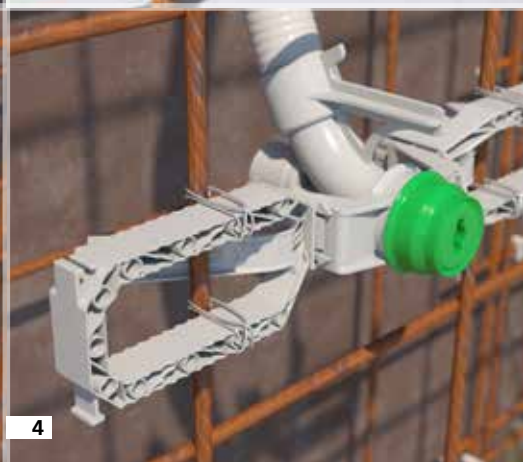
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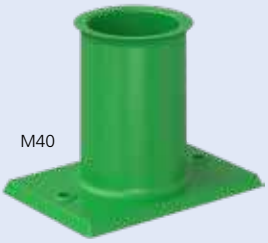
The particularly small design of the **end and transition bushes** allows you to omit empty conduits even between closely spaced reinforcing bars without the need for time-consuming processing.

**1** The flat front part allows easy fixing with only one nail.
**2** The new snap-in connection offers a secure connection between the front and rear parts.
**3** Installation on the opposing formwork with an adapter and a Prefix® system wing set. **NEW**
**4** Quick and easy wall exit attachment to the reinforcement with Prefix® installation technology. **NEW**

Product video

**End and transition bush**
Art. No 1204-24/34/29


**End and transition bushes**
Art.-No. 1203-28

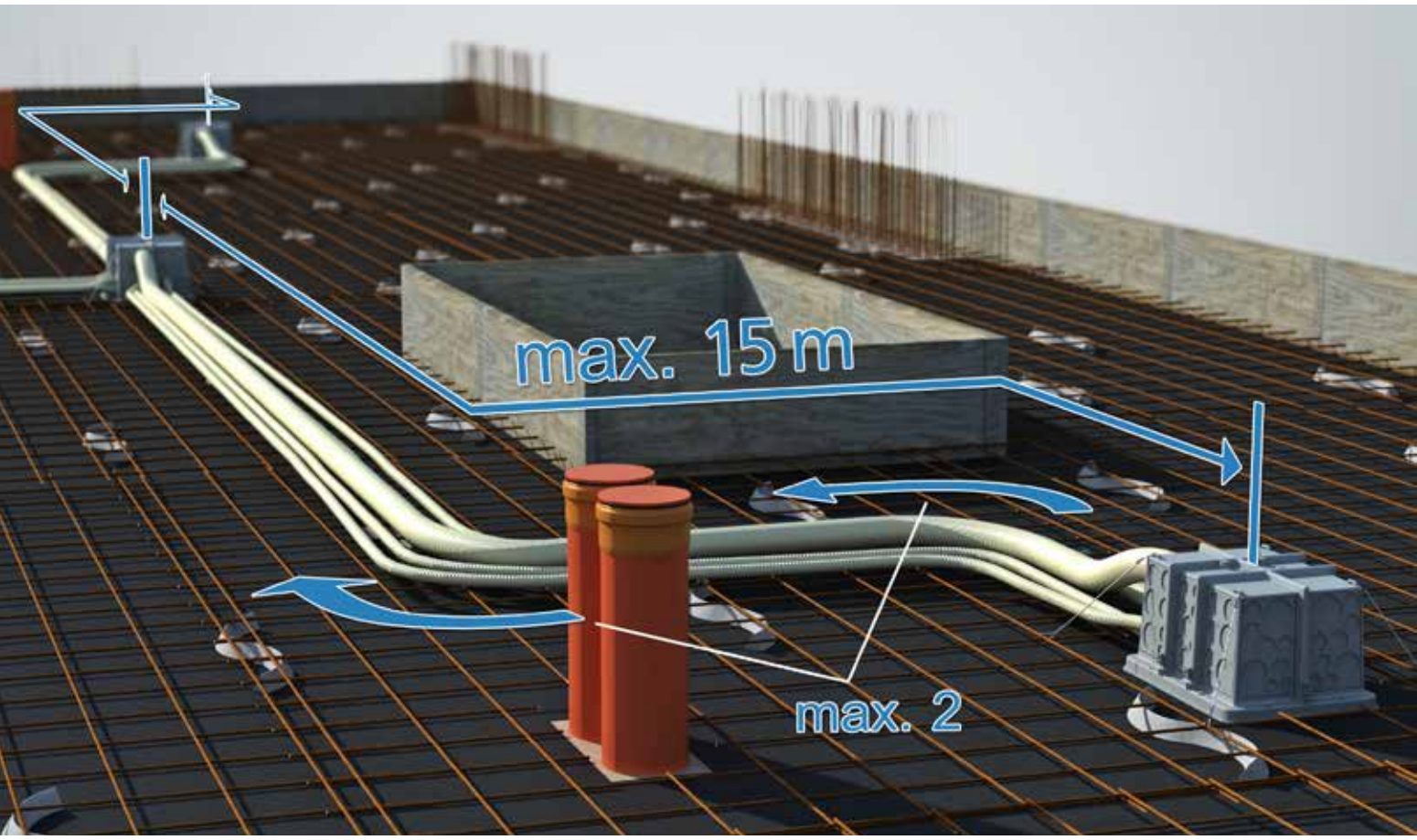



**Wall and ceiling transition 30°**
Art. No 1202-04/34/29


**B¹ Prefix® wall exit adapter**
Art. No 1211-20/25/32


**B¹ Prefix® system wing set**
Art. No 1211-00

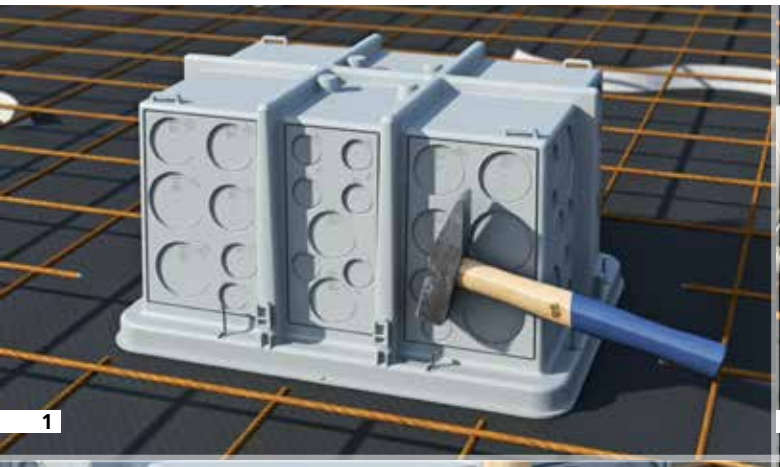

**Ceiling strip / Formwork protection**
Art. No 4551 / 1283-.. / 4558 / 4552




# **Wire-pull and junction casings.**
# For continuous empty conduit installation.

**KAISER wire-pull casings** ensure professional cable routing through conduit networks. According to DIN 18015-1, conduit lengths of more than 15 m as well as more than two bends require wire-pull casings which allow for the re-tightening or retrofitting of cables at any time.
Wire-pull casings provide multiple conduit entry options and maximum free space to ensure a continuous cable network, including subsequent changes to the electrical installation.

- Quick and secure installation due to pre-assembled nails
- Simple mounting in the wall using Prefix® installation technology
- High dimensional stability, no internal support required
- Versatile conduit entry options
- In case of sub-ceiling insulation, it can be extended via intermediate frames
- Clean stripping where facing concrete is required
- Maximum space for pulling cables through and for cable retrofitting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**1** Fastening to the ceiling formwork occurs by means of 8 pre-installed nails. The nail domes have a predetermined breaking point, so that the nails are also removed together with the formwork removal.

**2** Tie lugs attached to the back wall provide additional security during fixing if extreme loads are expected.

**3** The conduit entries can be opened easily with a step drill or hammer and screwdriver. If multiple different conduits are inserted, the side walls can be removed with a hammer.

**4** Also suitable for wall mounting - to be fastened to the reinforcement via Prefix® installation technology.

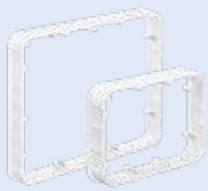
**Wire-pull casing**
Art. No 9916

**Wire-pull casing**
Art No. 9916.21

**Wire-pull casing**
Art. No 9917

**Wire-pull casing**
Art. No 9917.21

**Enlarging frame**
Art. No 9917.68 / 9916.68



**Plaster cover**
Art. No 9917.06 / 9916.06

**Screw-in cover**
Art. No 9917.02 / 9916.02

**Waterproof cover**
Art. No 9917.03 / 9916.03

**Prefix® wing set**
Art. No 9940..

# Precast concrete.

Prefabricated elements (precast concrete) are well suited for the series production of individual elements. They are manufactured completely or partially in concrete factories. This type of construction is characterised by high efficiency due to short installation times, weather-independent production and the consistent quality of the ceiling and wall elements. The high degree of automation in horizontal production on steel formwork tables ensures high-precision and fast production runs.
Mounting and fixing an installation system on the steel formwork must be carried out precisely, securely and rapidly. For this operation, where every minute counts, magnets, hot glues or adhesive films are used. For precast concrete, too, KAISER provides a practical system with various fixing and supporting options in order to guarantee trouble-free production.

A crucial factor for maximum efficiency in precast concrete is the production lead times. The set-up times for the reinforcement and electrical installation play an important role here - especially in computer-controlled plants with circulation systems. A decisive factor for further processing on the on-site mixed concrete construction site is the quality of the pre-installation and therefore the cost-reduced further processing (installation) in walls and ceilings.

**The KAISER programme for precast concrete** consists mainly of the $B^2$ system with one-gang junction boxes as well as special slab ceiling boxes and housings. This programme is supplemented for precast concrete with intelligent products for conduit installation such as wall to ceiling transitions and oval funnels for faster wall installation. The HaloX® system for luminaries, loudspeakers and installation accessories makes installation in precast concrete perfect and offers high planning reliability and flexibility in equipping the HaloX® housing with the variable installation diameters and installation heights. In addition to these products, which have been specially developed for precast concrete, all KAISER on-site mixed concrete products can also be used in precast concrete.

**1** Wall to ceiling transition 90°, oval funnel
**2** Large box for slab ceilings 105
**3** HaloX® 250 with tunnel for precast concrete for magnetic fastening
**4** One-gang junction box without plaster skin with 83.5 mm depth
**5** One-gang junction box without plaster skin with 68.5 mm depth
**6** One-gang junction box without plaster skin with special adhesive, universal extension element 175 to 300 mm
**7** Wall to ceiling transition 90°
**8** HaloX® 180 for precast concrete for magnetic fastening
**9** HaloX® 180 / 250 for precast concrete for magnetic fastening
**10** HaloX® 180 with tunnel for precast concrete production for magnetic fastening
**11** Universal installation housing with mineral fibreboard
**12** One-gang junction box without plaster skin with 48.5 mm depth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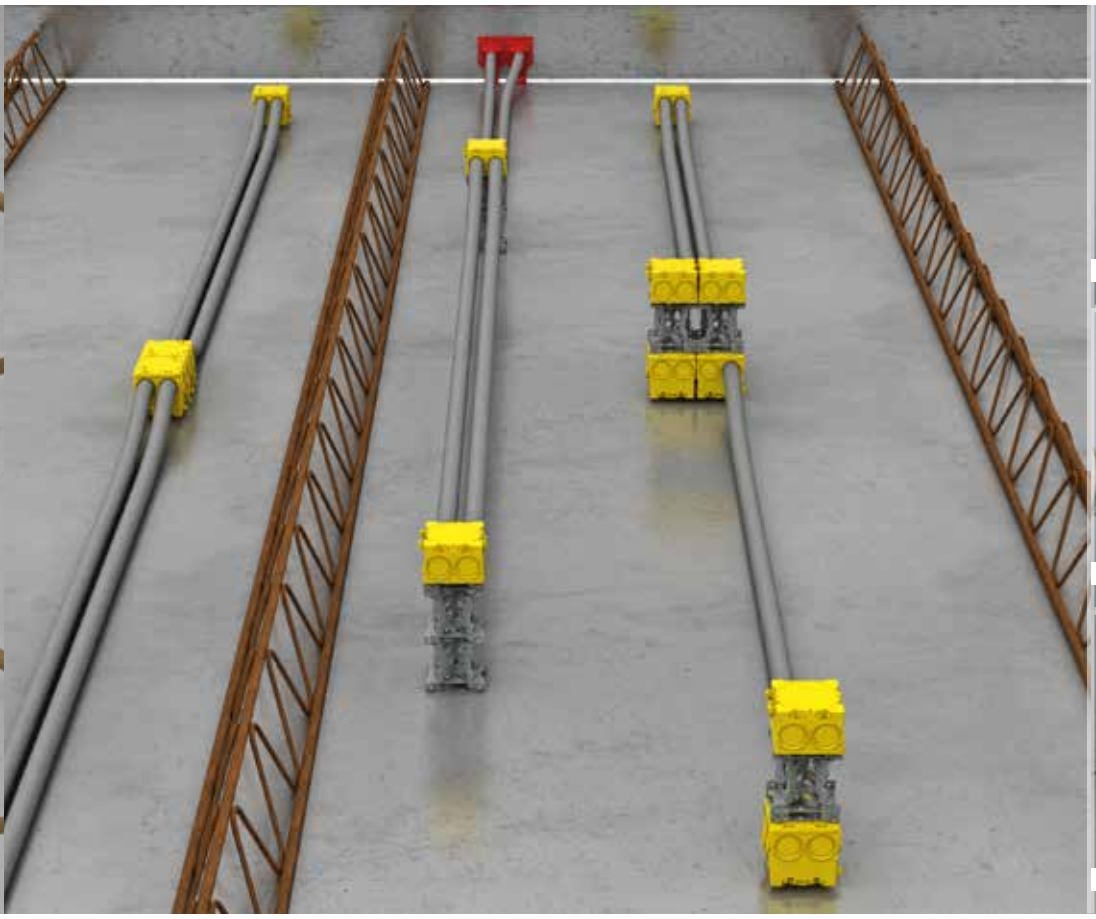
# **Precast concrete: B²**
# wall installation.

**The B² concrete construction system** was specially developed for the requirements of production in horizontal steel formwork. B² is designed to be simple and practice-oriented so that it saves both time and money.
With B² almost every imaginable combination can be realized with the help of the individual components. This allows you to accommodate any wall thickness - in 5 or 10 mm increments - and insert the one-gang junction boxes with a perfect fit. Even single boxes that are to be installed on top of the formwork table can be positioned in a stable and torsion-proof manner with the aid of the extension elements and the abutment. Using distance piece 142 (Art. No 1261-18), combinations for the separate covering of different voltage types or to avoid wall weakening can be realised by a recessed installation (e.g. for sound, stability or fire protection reasons).

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B² system for installation in horizontal precast concrete. All installation requirements can be met with just a few components. The one-gang junction boxes are adhesive and the accessories provide a practice-oriented product range.

**1** Conduit connectors can be attached by simply locking them in.
**2** Conduits are inserted into the locked-in conduit connecter.
**3** Extension elements are used to bridge the wall thickness and support one-gang boxes when installed on the opposing formwork.

Product video

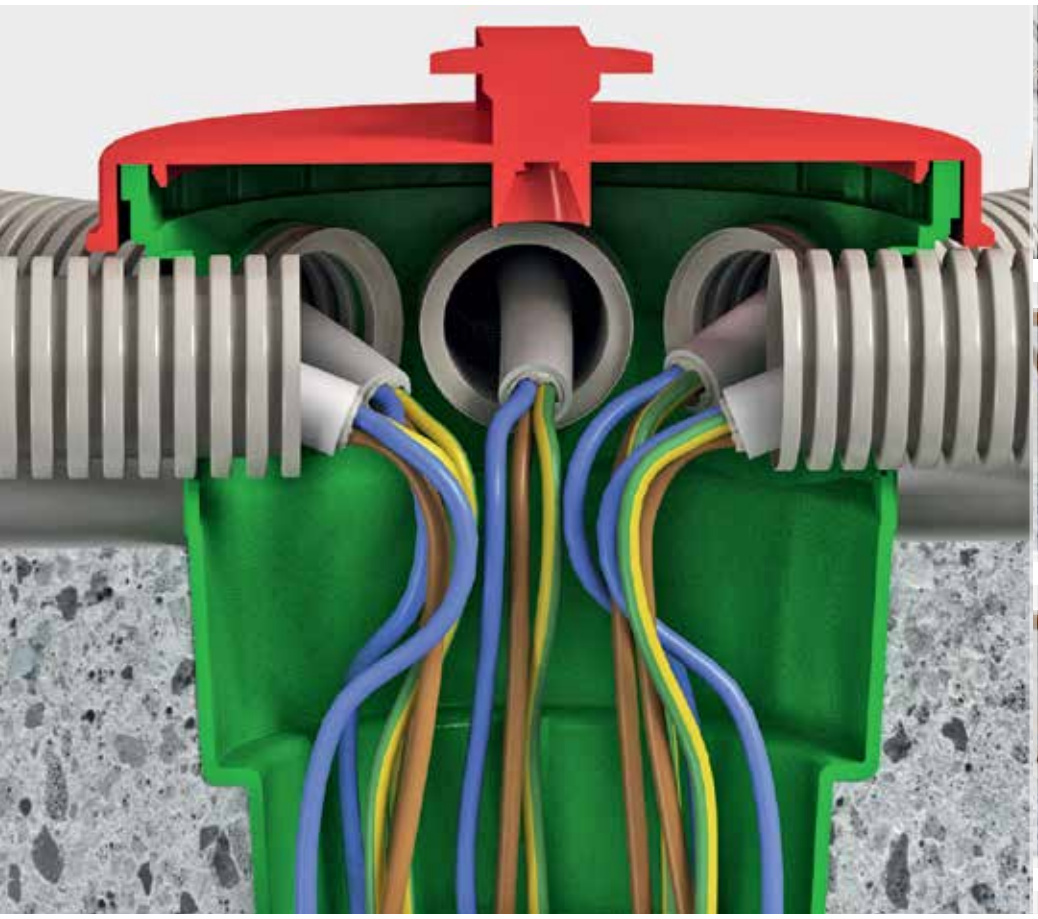
**One-gang and one-gang junction boxes**
Art. No 1262-.. / 1263-.. / 1264-..

**Pipe connector**
Art. No 1261-20/25/32/40

**Conduit connector 60**
Art. No 1266-25

**Extension element 10 to 50 mm**
Art. No 1261-10

**Magnet**
Art. No 1261-81

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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.

**1** The conduits are installed at the construction site.
**2** Slab ceiling boxes are easily opened with KAISER punch pliers.
**3** The conduit is inserted tightly and accurately and the box is sealed with the cover.

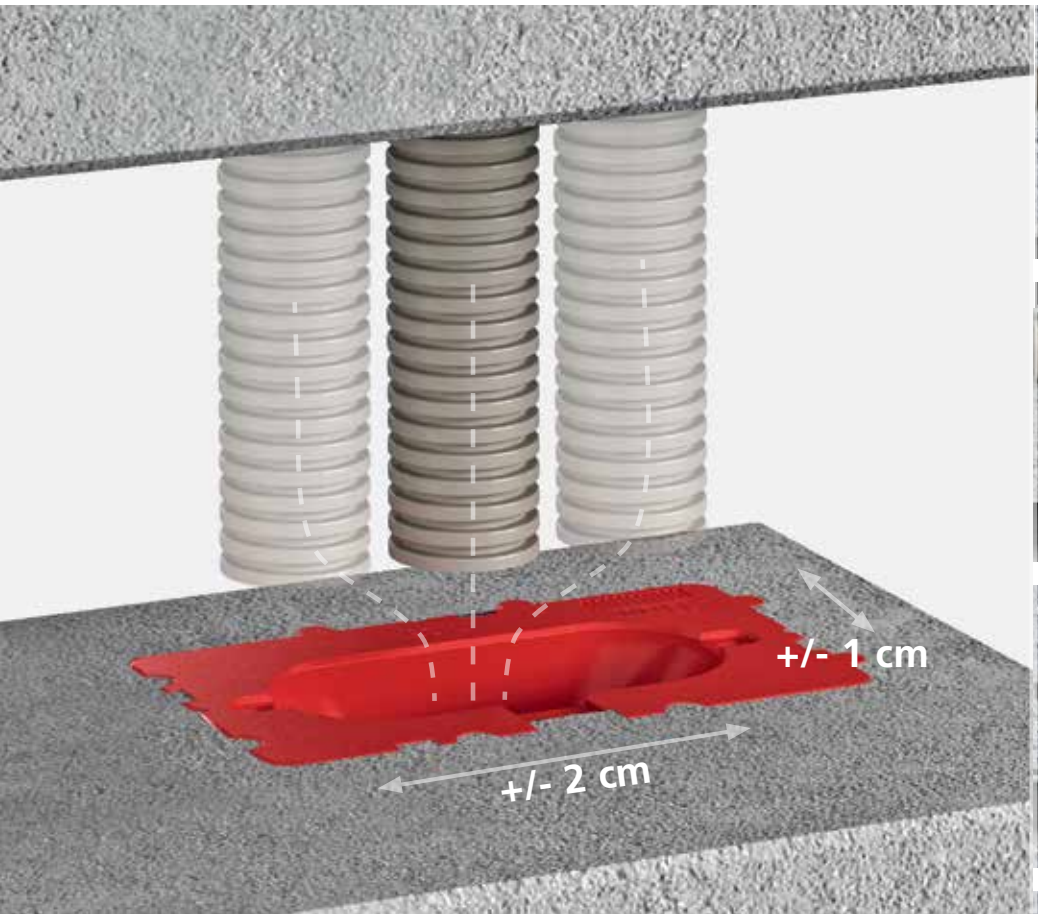
# Slab ceiling boxes.

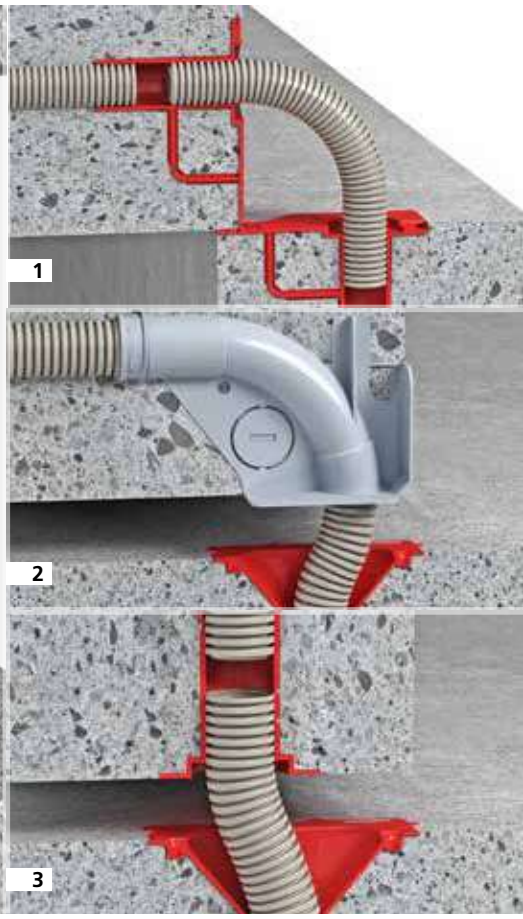
**Slab ceiling large boxes** were specially designed for industrial manufacturing. With two different installation heights of 105 and 115 mm, they are precisely tailored to the requirements of factory installation and the different heights of the lattice girders and/or designed for maximum installation space. The boxes are secured and molded on the formwork table with hot adhesive or double-sided adhesive foils in the concrete plant. The conduits are installed after the slab ceiling elements are laid by crane at the construction site. To do so, the box screw-in covers are removed so that KAISER punch pliers can be used to make exact openings in the upper part of the box for the conduit and then the conduit is connected to the box. This can be done even if an installation box was not inserted during industrial production or when additional installation boxes are desired later on. The slab ceiling box for subsequent installation can be retrofitted into a cut drilling hole of Ø 65 mm in the prefabricated ceiling.

**Large slab ceiling box 115**
Art. No 1227-55

**Large slab ceiling box 105**
Art. No 1227-54

**Slab ceiling box for retrofitting**
Art. No 1247-01




**With the help of the oval funnel,** a tolerance compensation of 2 or 1 cm is possible. The secure conduit entry is thus maintained.

**1** Wall to ceiling transitions serve as wall exits or as connecting elements between prefabricated concrete elements.
**2** The 90° wall to ceiling transition is ideal for slab ceilings.
**3** Tolerance compensation of 2 or 1 cm possible.

# **Transitions** for precast concrete.

KAISER offers several variants for **wall and ceiling transitions**. The 90° bend makes it easier to pull in the cables and is suitable for exits above the raw concrete ceiling or for suspended ceilings. Due to its overall height, the wall to ceiling transition 90° is ideal for slab ceilings. The straight variant has an integrated measuring tab. The required distance to the formwork can be fixed in increments of 5 mm. The wall to ceiling transition 90° is available for Ø 20 and Ø 25 mm conduits, the straight version for Ø 25 mm conduits with protective covers and with or without adhesive.

**The oval funnel simplifies the assembly** of individual prefabricated parts. It offers a tolerance compensation of 2 or 1 cm and ensures secure conduit entry for M20 and M25 conduits. On steel formwork, the oval funnel can be fixed with hot glue and, on wooden formwork, it can be fixed to the auxiliary formwork or perimeter formwork with nails or wood screws. During installation, the oval opening is closed with a hinged lid to prevent concrete from flowing in during pouring.

**Wall to ceiling transition**
Art. No 1261-12/73

**Wall to ceiling transition 90°**
Art. No 1261-16 / 1261-14

**Oval funnel**
Art. No 1261-42 / 1261-43

For exact entries for cables and conduits
**Punch pliers** Art. No 1286-33/34

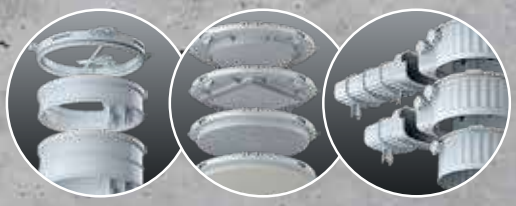
# HaloX® system.

## For precast concrete and on-site mixed concrete.

**Pressure-stable tunnel** to accommodate operating devices. Minimal effect on the statics – no cuts to the reinforcement required in the tunnel area.

**Multi-conduit entry**
Conduit entries up to M40 – ideal for pre-assembled cables.

**Continuous housing system** – modular, flexible for all installation diameters, heights and installation openings of luminaires and loudspeakers up to a 250 mm diameter.




**Combination entry for conduits M20/ M25** – toolless opening technology with secure conduit retention. Resealable for installation changes.

**Wave-shaped surface profile** ensures maximum housing surface for optimum heat dissipation via the concrete.

**Shape-retaining and resilient.**
Compact housing with stabilizing wave profile provides the necessary stability during the concreting process – even under extreme loads.

**For ceiling and wall installation.**

# There are many types of luminaires and loudspeakers.
# **HaloX® suits them all.**

**The new generation of concrete installation housing** offers secure installation space for loudspeakers and luminaires with LED, halogen or compact fluorescent lamps and their operating devices in ceilings and in walls. HaloX® creates the space required for modern lighting and sound solutions. Due to its modular and flexible structure, the system offers a solution for virtually all installation diameters and installation depths.

**Choosing the appropriate housings and accessories** is extremely simple. The HaloX® housing system is available in three basic types HaloX® 100, HaloX® 180 and HaloX® 250, - together with a tunnel for the secure fastening of operating devices (e.g. LED drivers).

**1** HaloX® system 100 with multi-conduit entry
**2** HaloX® system 180 with tunnel 190
**3** HaloX® system 250 with tunnel 325
**4** HaloX® creates a secure installation compartment for luminaires and loudspeakers in concrete ceilings and walls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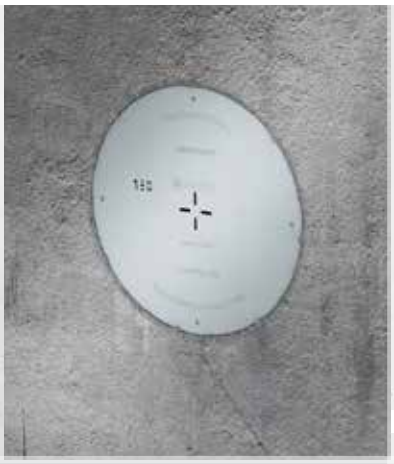

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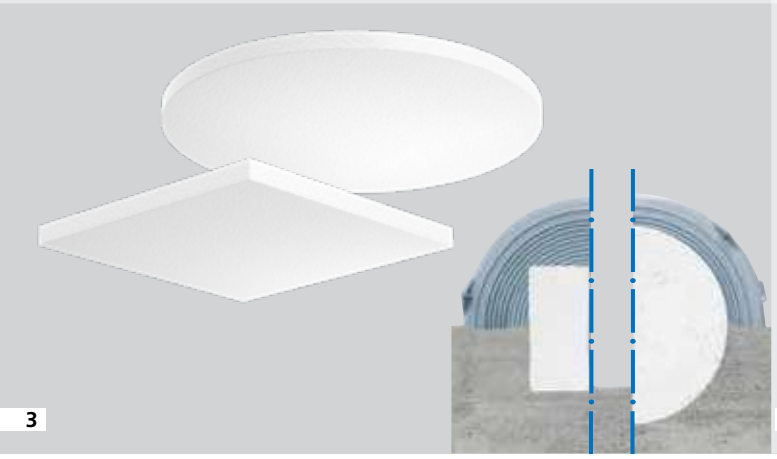
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# Forms and functions.

Front parts with defined installation diameters are available for all housing sizes – even for facing concrete. An additional elastomer sheathing prevents the dry concrete from cracking. Styrofoam moulded parts are available for individual installation diameters in almost any shape and thickness, and universal front parts are suitable for variable or as yet undefined ceiling exits.

**1** Round front parts with and without an elastomer seal.
**2** Square front parts with and without an elastomer seal.
**3** Styrofoam mouldings for individual cut-outs in any shape and size (with and without an elastomer seal).
**4** Universal front parts for variable or not yet defined ceiling cut-outs.

**HaloX® 100/180/250 front parts**
1281-01..07
1282-01..06
1283-01..06

**HaloX® 100 front parts, square**
1281-08/09

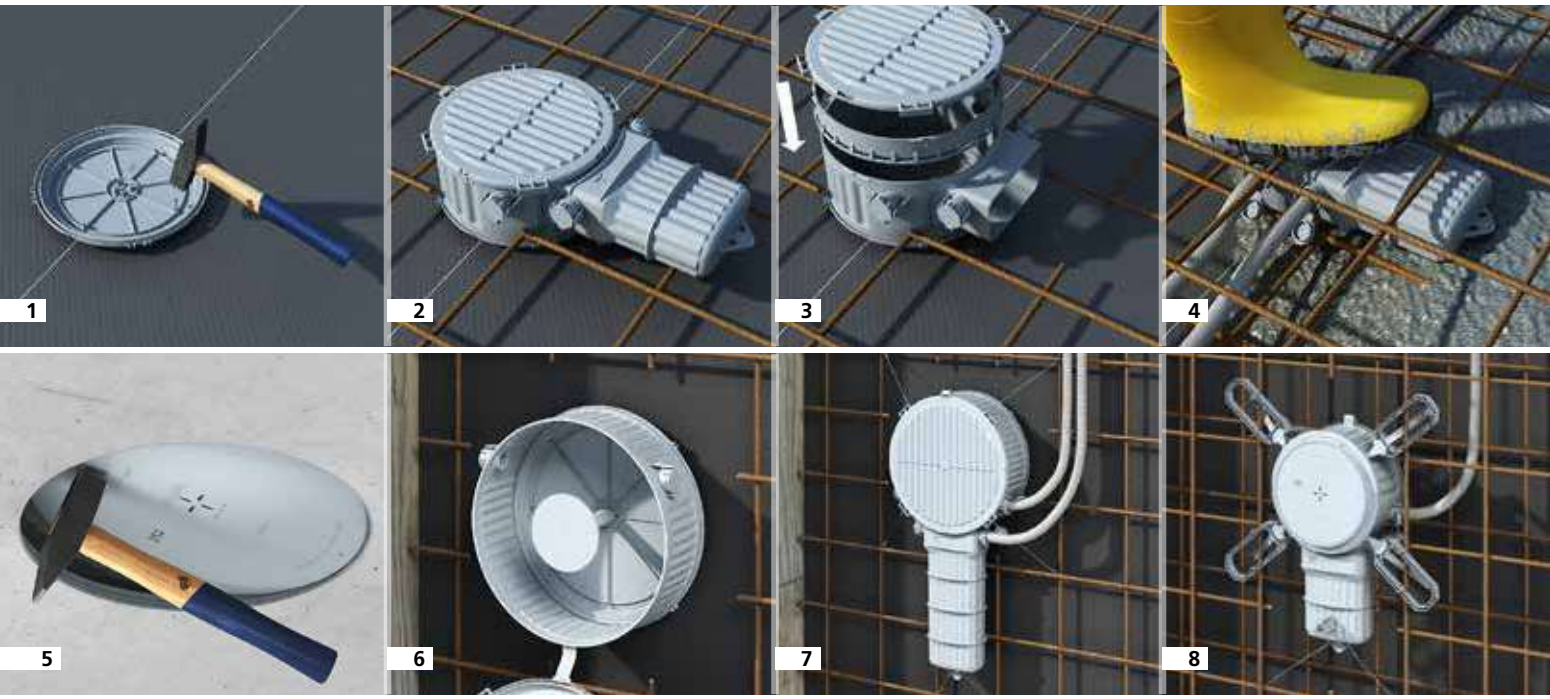
**HaloX® 100/180/250 front parts for facing concrete**
1281-61..67
1282-61..66
1283-61..66

**HaloX® 100 front parts, square for facing concrete**
1281-68/69

**HaloX® 100/180/250 universal front parts with plastic panels**
1281-10
1282-10
1283-10

**HaloX® 100/180/250 universal front parts with mineral fibreboard**
1281-11
1282-11
1283-11

**HaloX® Styrofoam moulded parts**
1292-90




# Installation in on-site mixed concrete.

The shape-retaining HaloX® system has a modular design for installation in on-site mixed concrete. Three housing diameters with multiple round, square and universal front parts allow the integration of luminaires and loudspeakers up to an installation diameter of 250 mm – also in facing concrete. With a tunnel, the system provides sufficient space to house operating devices such as LED drivers. Optional extension rings to increase the installation depth.
All front parts are moisture-repellent and can be positioned exactly and nailed-on even before the first reinforcement is laid. Housings and front parts are firmly and stably latched together and can still be aligned as required afterwards.
After casting, front parts with a defined installation diameter can be opened with a targeted hammer blow. The front parts for universal opening dimensions can be plastered locally or plastered over. The desired installation opening is then created with conventional milling tools such as the Multi 4000.

**1** The flat front part allows easy nail fastening.
**2** Minimal effect on the statics – no additional cuts to the reinforcement in the area of the tunnel as it has a clearance of 40 mm to the formwork.
**3** Intermediate frames can be used to increase the installation depth of the housing.
**4** Sturdy and shape-retaining fitting.
**5** After removing the formwork, the front part is opened with a single hammer blow. (e.g. 1282-65).
**6** For wall installation (HaloX® system 180 and 250) Use installation kit for internal support to ensure a secure installation compartment.
**7** Toolless combination entry for M20/M25 conduits.
**8** As further accessories, Prefix® installation kits are available for the wall installation of all three housing sizes.

Product video

# System overview: HaloX® 100, HaloX® 180 and HaloX® 250 for on-site mixed concrete

The HaloX® system for on-site mixed concrete consists of different components, which are put together individually depending on the use. Follow the steps below to choose the required components:

## 1 Installation compartment for luminaires/ loudspeakers and operating devices

| | max. 100 mm | max. 180 mm | max. 250 mm |
|---|---|---|---|
| **Without additional space for operating devices** |  **HaloX® 100** 1281-00 |  **HaloX® 180** 1282-00 |  **HaloX® 250** 1283-00 |
| **Additional space for operating devices** up to 150 x 90 x 50 mm |  **HaloX® 100 with tunnel 190** 1281-30 |  **HaloX® 180 with tunnel 190** 1282-30 | |
| **Additional space for larger operating devices** up to 280 x 90 x 50 mm | |  **HaloX® 180 with tunnel 190** 1282-40 |  **HaloX® 250 with tunnel 325** 1283-40 |
| **Installation variety** Conduit entries up to M40 |  **HaloX® 100 Multi-conduit entry** 1281-15 | | |

## 2 Luminaire/loudspeaker installation diameters

| | max. 100 mm | max. 180 mm | max. 250 mm |
|---|---|---|---|
| Round round front parts | Ø 68 - 100 mm | Ø 100 - 180 mm | Ø 180 - 250 mm |
| Square square front parts | 68x68 - 75x75 mm | – | – |
| **Facing concrete** round: Round front parts with elastomer seal for facing concrete | Ø 68 - 100 mm | Ø 100 - 180 mm | Ø 180 - 250 mm |
| **Facing concrete** square: Square front parts with elastomer seal for facing concrete | 68x68 - 75x75 mm | – | – |
| Universal: Universal front part plastic (a) or mineral fibreboard (b) | Ø max. 100 mm | Ø max. 180 mm | Ø max. 250 mm |
| Specific: Individual Styrofoam moulded parts (optional for **facing concrete**) | • | • | • |

## 3 Installation depth

| | | | |
|---|---|---|---|
| Installation height > 110 mm |  **Extension rings 10 / 25 / 50 mm** 1281-21/25/50 |  **Extension rings 25 / 50 mm 1282-25/50** |  **Extension rings 25 / 50 mm** 1283-25/50 |

## 4 Accessories for wall installation

| | | | |
|---|---|---|---|
| Wall installation in vertical formwork |  **Prefix® installation kit for fixing to the reinforcement** 1299-65 |  **Wall installation kit for installation in vertical formwork** 1299-60...64 | |
| | |  **Prefix® installation kit for fixing to the reinforcement** 1299-66 | |

# Fitting in precast concrete.

The HaloX® system is designed as a single element for fitting in precast concrete. Markings on the housing facilitate alignment on the formwork table. The housing with pre-fitted mineral fibre-board allows easy glueing and the housings can be turned by 360 on the formwork table even after glueing. For magnet attachment, housings with pre-fitted front parts for holding the magnet (Art. No 1299-67) are available. 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 greater than 110 mm, the installation compartment of the HaloX® housings can be increased on the on-site mixed concrete building site by means of extension rings. The fitting of conduits on the on-site mixed concrete construction site is toolless for M20/M25 conduits without any internal shortening of the conduits.

**HaloX® 180**
Art. No 1282-71

**HaloX® 250**
Art. No 1283-71

**HaloX® 180**
**for magnet attachment**
Art. No 1282-74

**HaloX® 250**
**for magnet attachment**
Art. No 1283-74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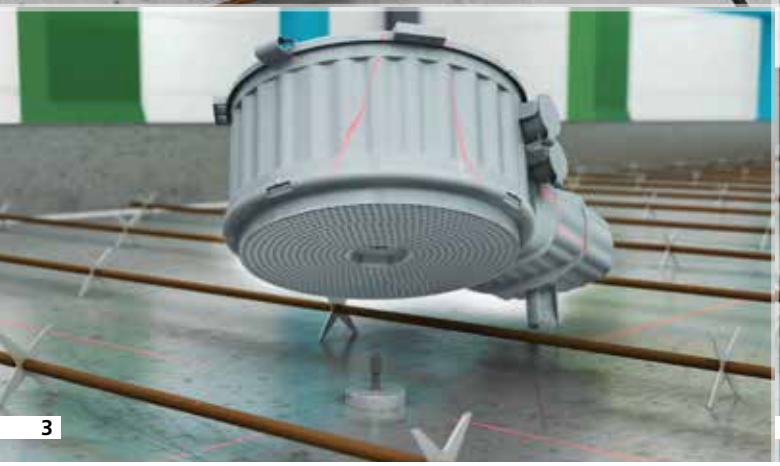
2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**1** Mounting of the single-piece housing with mineral fibreboard.
**2** Alignment marks for exact positioning on the formwork table.
**3** Fitting of the one-piece housing by means of a magnet (Art No. 1299-67).
**4** Precise and level fixing of the housing.

Product video

**HaloX® 180**
**with tunnel 190**
Art. No 1282-72

**HaloX® 180**
**with tunnel 325**
Art. No 1282-73

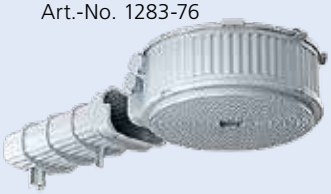
**HaloX® 250**
**with tunnel 325**
Art. No 1283-73

**Replacement mineral fibreboard**
**for HaloX® 180, HaloX® 250**
Art. No 1282-27
Art. No 1283-27

**HaloX® 180**
**with tunnel 190**
**for magnet attachment**
Art. No 1282-75

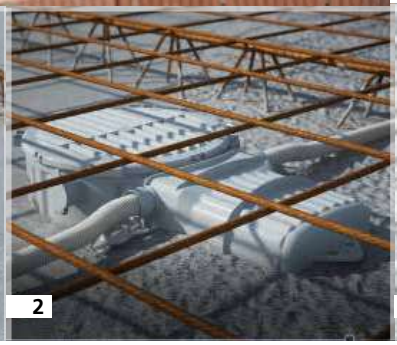
**HaloX® 180**
**with tunnel 325**
**for magnet attachment**
Art. No 1282-76

**HaloX® 250**
**with tunnel 325**
**for magnet attachment**
Art.-No. 1283-76

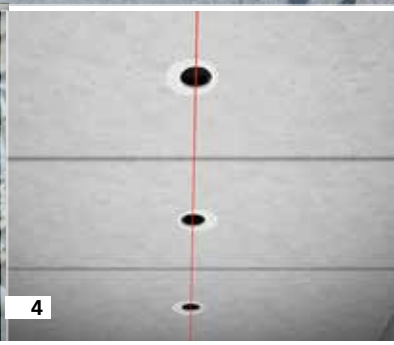


**HaloX®**
**magnet**
Art. No 1299-67

**HaloX® extension**
**rings**
Art. No 1282-25/50
Art. No 1283-25/50






# **Further installation in** prefabricated elements **at the construction site.**

Further installation of HaloX® housings is quite simple. The housing sizes in combination with the universal front parts allow the compensation of tolerances, which may arise when laying the panel elements. After laying the panel elements, the conduits can be fitted. The toolless opening of the M20/M25 combination entries enables fast and secure conduit insertion. At the same time, the depth stop obviates the need for subsequent internal shortening of the conduits.

For luminaires or speakers with greater installation depths (> 100 mm), the installation space of the HaloX® housing can be subsequently raised with extension rings at the on-site mixed concrete construction site.

**1** Toolless conduit entry for M20/M25 conduits with depth stop.

**2** Finished conduit installation of the HaloX® housing.

**3** Increase of the installation depth by means of extension rings.

**4** Making the ceiling cut-outs (e.g. with Art. No 1083-10) in compliance with the laying tolerance.

Product video

# System overview: HaloX® 180 and HaloX® 250 for precast concrete

The HaloX® system for precast concrete consists of various elements, which are configured individually as required. Follow the steps below to choose the required components:

## 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<br>one-piece housing with universal mineral fibreboard | Magnet attachment<br>one-piece housing with universal plastic panel for holding the magnet<br>**HaloX® holding solenoid**<br>1299-67 | Adhesive attachment<br>one-piece housing with universal mineral fibreboard | Magnet attachment<br>one-piece housing with universal plastic panel for holding the magnet<br>**HaloX® holding solenoid**<br>1299-67 |
|---|---|---|---|---|
| **Without additional space for operating devices** |  <br>**HaloX® 180**<br>1282-71 |  <br>**HaloX® 180**<br>1282-74 |  <br>**HaloX® 250**<br>1283-71 |  <br>**HaloX® 250**<br>1283-74 |
| **Additional space for operating devices**<br>up to 150 x 90 x 50 mm |  <br>**HaloX® 180 with tunnel 190**<br>1282-72 |  <br>**HaloX® 180 with tunnel 190**<br>1282-75 | | |
| **Additional space for larger operating devices**<br>up to 280 x 90 x 50 mm |  <br>**HaloX® 180 with tunnel 325**<br>1282-73 |  <br>**HaloX® 180 with tunnel 325**<br>1282-76 |  <br>**HaloX® 250 with tunnel 325**<br>1283-73 |  <br>**HaloX® 250 with tunnel 325**<br>1283-76 |

## 2 Installation depth

Installation height
> 110 mm

**Extension rings 25 / 50 mm 1282-25/50**

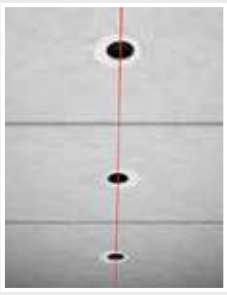
**Extension rings 25/ 50 mm**
1283-25/50

## 3 Accessories for wall installation

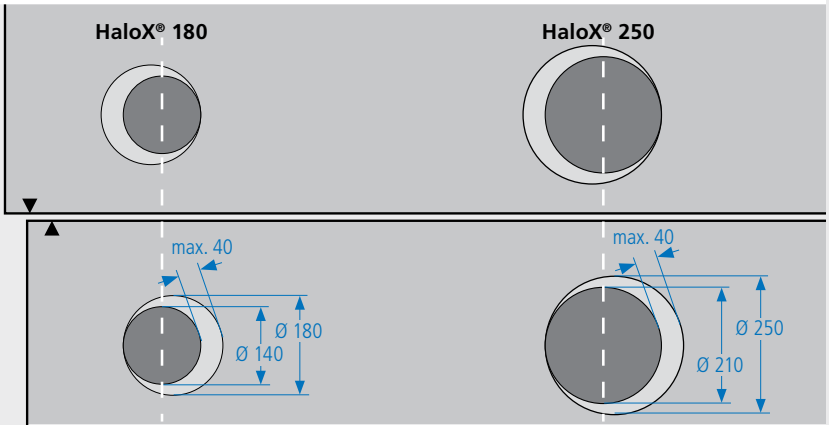
Wall installation in vertical formwork

**Wall installation kit for installation in vertical formworks**
1299-60...64

## Tolerance compensation



Depending on the installation diameter, inaccuracies arising during installation of the slab ceilings can subsequently be corrected. Variable installation diameters can be cut out precisely in the front parts with the KAISER VARIOCUT universal hole cutter.



# **Universal installation housings for concrete ceilings and walls.**
## Variable for various installation accessories.

**Universal installation housings** allow easy and secure installation of many applications for which no concrete installation solutions are commercially available. For example, devices such as touch panels for smart home applications can be optimally installed via the installation opening that can be made in the mineral fibreboard.
Universal installation housings also provide the perfect solution for other applications used for control, lighting or sound systems of rooms and buildings.

**The installation** of the universal installation housings is similar to that of the junction boxes, so that both the planning and the installation can be carried out just as easily.
The housing system is equally suited for installations in on-site mixed concrete and in precast concrete elements, as well as for use in walls and ceilings, so that the system has no restrictions here either.
The universal mineral fibreboard can be easily and precisely opened for the relevant applications using a jigsaw. A circumferential groove in the mineral fibreboard determines the maximum possible cutout.


1


2

3


4

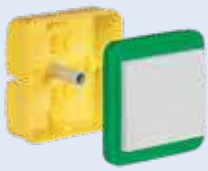
**1** The housing in the concrete is flush-mounted with the mineral fibreboard.
**2** The support prevents it from being pressed inward while the concrete is being cast.
**3** The front panels are easy to process, ensuring the ability to create flexible cut-outs.
**4** The groove in the mineral fibreboard marks the maximum fitting area.

**Universal installation housing with mineral fibreboard**
Art. No 1223-22

**Universal installation housing with mineral fibreboard**
Art. No 1224-22

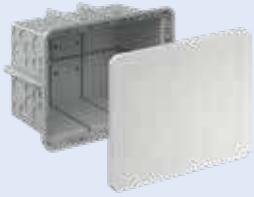
**Universal installation housing with mineral fibreboard**
Art. No 1295-22

**Universal installation housing with mineral fibreboard**
Art. No 1296-22

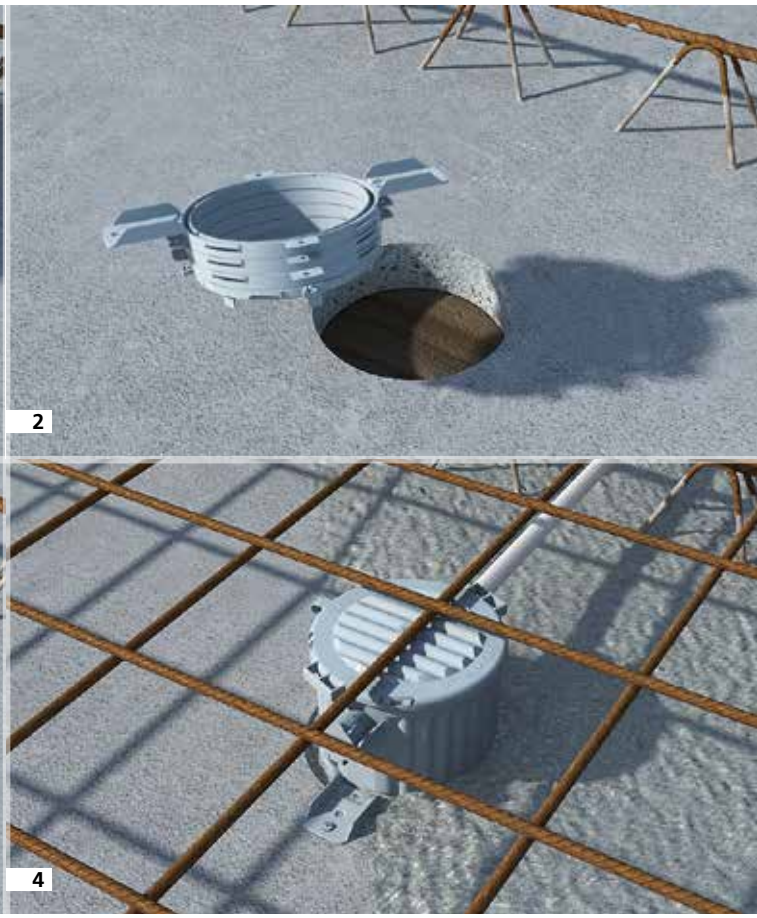


**Universal installation housing with mineral fibreboard**
Art. No 1297-22

**Universal installation housing with mineral fibreboard**
Art. No 1297-.../1298-...




For precise entries
**Step drill** Art. No 1284-32








**1** A drilling hole (Ø 150 - 160 mm) is cut into the slab ceiling.
**2** Front parts and extension rings are combined according to the ceiling thickness and installation depth.
**3** Place the housing in the drilling hole and fasten.
**4** The housing attached to the reinforcement now sits firmly and precsely in place.

# **HaloX® installation kit.**
# For retrofitting in slab ceilings.

**The HaloX® installation kit** can be retrofitted in existing slab ceilings (from thickness 50 mm) with or without a transformer tunnel. Be sure to take into account the ceiling thickness and the structural alteration of the ceiling (e.g. fire protection and statics).

- For retrofitting in filigree ceilings
- Minimal effect on statics
- Enables convenient short-term planning changes
- Large selection of opening dimensions up to Ø 100 mm
- Extension rings for bridging the slab ceiling element and for increasing the luminaire installation depth






**1** Cut drilling hole (Ø 150 - 160 mm) in the solid ceiling.
**2** The universal opening cutter is used to create precisely fitting conduit entries for the corresponding conduit sizes.
**3** Front parts and extension rings are combined according to the ceiling thickness and installation depth.
**4** The complete housing with the installed conduit is inserted into the drilling hole.
**5** Then the free space is filled with concrete and compacted.

# HaloX® for solid concrete ceilings.
## For retrofitting.

**HaloX® concrete installation housing for solid concrete ceilings** can be inserted into existing and retrofitted drilling holes.

- For retrofitting in solid ceilings
- Minimal effect on statics
- Quick installation with snap-in connections
- Robust construction, ideal for use on building sites
- Large selection of opening dimensions up to Ø 100 mm

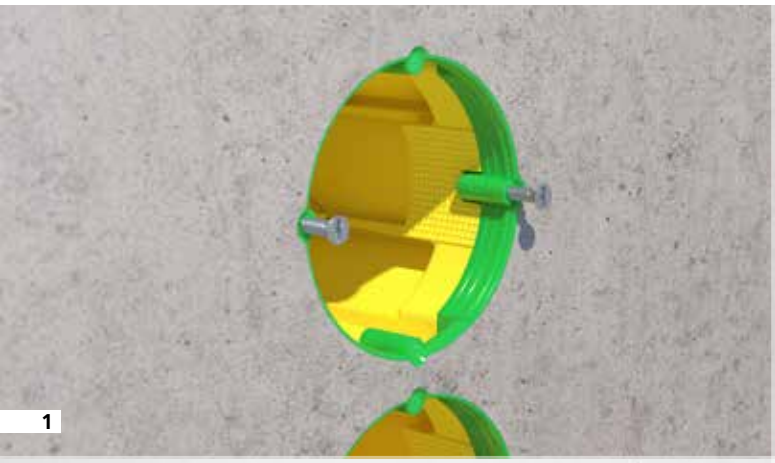
**HaloX® housing for drilling holes in solid ceilings**
Art. No 1290-30

For exact entries for cables and conduits
**Universal opening cutter** Art. No 1085-80

# **Products for facing concrete.**
## Highest requirements for appearance.

Facing concrete is a very popular architectural feature that is used for walls, stairs and specially-shaped elements. This is basically normal concrete. However, as the components are not processed any further after stripping the formwork, the visual appearance differs significantly from normal concrete. Facing concrete is a part of architectural and interior design, which requires very precise advance planning to achieve the desired appearance.

The electrical installation also has some extra requirements when installed in facing concrete. KAISER offers various solutions for installation in facing concrete. Innovative product properties ensure that the installed products are safely moulded in the concrete and that the equipment can be installed without any problems.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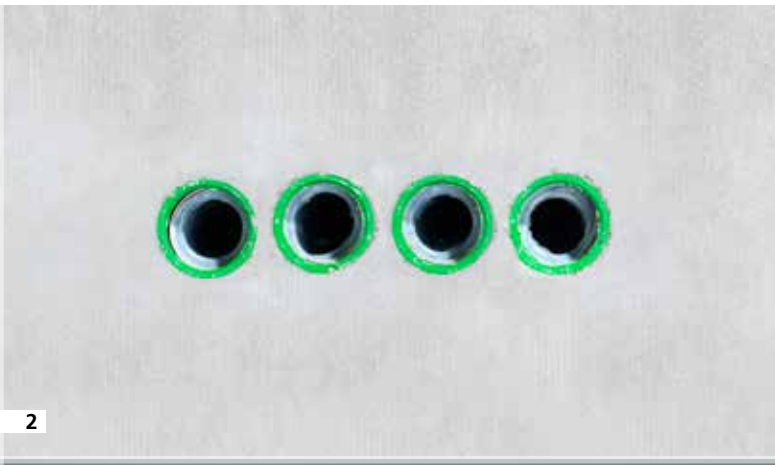
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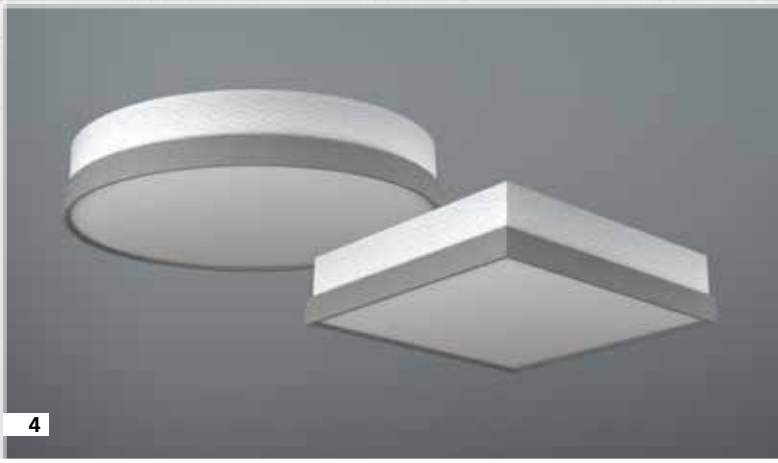
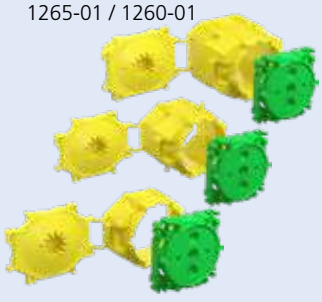
3


4

**1** The products of the B¹ programme are suitable for use in facing concrete.
**2** Wall and ceiling transitions can be used as cable exits with a minimal visible surface.
**3** The HaloX® system includes a variety of front parts with eleastomer seals for use in facing concrete.
**4** Styrofoam mouldings with an elastomer seal for individual cuts-outs are available in any shape and size.

**B¹ One-gang boxes / one-gang junction boxes**
Art. No 1255-01 /
1265-01 / 1260-01



**Prefix® concrete construction box 60 / 35**
Art. No 1211-61/36

**B¹ Domed box 45°**
Art. No 1249-11
Art. No 1249-12

**B¹ Ceiling junction box**
Art. No 1265-11
Art. No 1265-12
Art. No 1260-11

**End and transition bush**
Art. No 1204-24/34/29


**Wall and ceiling transition 30°**
Art. No 1202-04/34/29

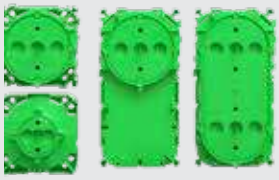

**HaloX® 100/180/250 front parts for facing concrete**
1281-61..67
1282-61..66
1283-61..66
1281-68/69

**HaloX® Styrofoam moulded parts for facing concrete**
1292-90

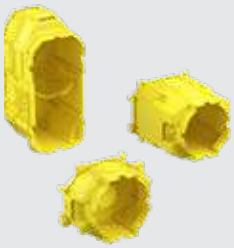
# Electrical installation in concrete. **At a glance.**

## The KAISER colour system.

The different colours of the individual components facilitate correct assembly.



**Green**
Front parts for fixing to the formwork.



**Yellow**
Box and casing rear parts for wall installation.

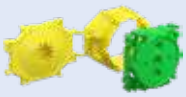
**Red**
Box rear parts for ceiling installation.

**Grey**
Intermediate parts and attachment accessories.

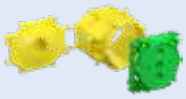
## Installation in on-site mixed concrete.

**www.kaiser-elektro.org/gb113**

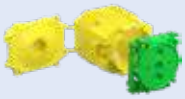
**Installation in walls**



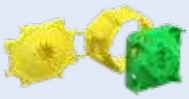
**B¹ One-gang box**
1255-01 | S.8



**B¹ One-gang junction box**
1265-01 | S.8



**B¹ Large conduit one-gang junction box**
1260-01 | S.8



**B¹ Wall light connection box**
1248-01 | S.8

**B¹ Universal wall exit**
1248-03 | S.8

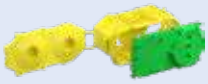
**One-gang box**
1255-43

**Junction box**
1276-70

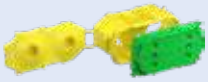
**Junction box**
1276-71

**PERILEX® one-gang box**
1276-40

**CEE one-gang box**
1275-40



**B¹ Electronics box**
1268-01 | S.8



**B¹ Two-gang junction box**
1269-01 | S.8

**Accessories**

**B¹ Prefix® system wing set**
1211-00 | S.8

**Abutment for adhesive foil**
1205-02

**Abutments**
1210-02

**Support element Ø 20 mm**
1212-...

**Adhesive foil**
1219-00

**Distance piece 91**
1259-04 | S.8

**Concrete building boxes for fixing to the reinforcement**

**Prefix® 60**
1211-61 | S.1010

**Prefix® 35**
1211-36 | .10 1211-36 | S.10.10

## Junction casings

**Junction casing**
**115 x 115 x 76 mm**
9909.01

**Junction casing**
**115 x 115 x 101 mm**
9908.01

**Junction casing**
**115 x 115 x 150 mm**
9908.21

**Junction casing**
**115 x 115 x 105 mm**
9907

**Junction casing**
**128 x 128 x 80 mm**
1295-02 | S.12

**Junction casing**
**180 x 180 x 82mm**
1296-02 | S.12

**Junction casing**
**250 x 220 x 82mm**
1297-02 | S.12

**Potential equalization casing**
**250 x 220 x 82mm**
1297-75

**Potential equalization casing**
**128 x 128 x 80mm**
1295-73

## Installation in ceilings

**B¹ Ceiling junction box**
1265-11 | S.14

**B¹ Ceiling junction box**
1265-12 | S.14

**B¹ Large conduit ceiling junction box**
1260-11 | S.14

**B¹ Universal ceiling exit 45°**
1249-13 | S.14

**B¹ Universal ceiling exit**
1265-13 | S.14

**Ceiling exit**
9955 | S.14


**B¹ Domed box 45°**
1249-11 | S.14


**B¹ Domed box 45°**
1249-12 | S.14

**Large slab ceiling box 115**
1227-50 | S.14

**Slab ceiling box for retrofitting**
1247-01 | S.14

**Universal ceiling and wall exit**
9959 | S.14


**Ceiling junction box**
1245-63


**Ceiling junction box**
1245-62

**Light hook**
1225-../1226-.. | S.14

**Signal cover**
1181-35

## Wall to ceiling transitions


**End and transition bush**
1204-24 | S.1616


**End and transition bush**
1204-34 | S.1616


**End and transition bush**
1204-29 | S.1616


**End and transition bush**
1203-28 | S.1616


**Wall and ceiling transition**
1202- 04 | S.1616


**Wall and ceiling transition**
1202-34 | S.1616


**Wall and ceiling transition**
1202-29 | S.1616

**Ceiling strip**
4552 | S.1616

**Ceiling strip (ceiling exit)**
1283-33 | S.1616

**Ceiling strip (ceiling exit)**
1283-34 | S.1616

**Formwork protection**
4558 | S.1616

**Speedy formwork protection**
4551 | S.1616


**B¹ Prefix® wall exit adapter**
1211-20 | S.1616


**B¹ Prefix® wall exit adapter**
1211-25 | S.1616


**B¹ Prefix® wall exit adapter**
1211-32 | S.1616

**B¹ Prefix® system wing set**
1211-00 | S.1616

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# Wire-pull casings.

## Wire-pull casings

**Wire-pull and junction casings 175 x 120 x 64 mm**
9912.01

**Wire-pull and junction casings 170 x 115 x 95 mm**
9911.01

**Wire-pull casing[4] 250 x 180 x 120 mm**
9916 | S.18

**Wire-pull casing[4] 250 x 180 x 185 mm**
9916.21 | S.18

**Wire-pull casing[4] 400 x 300 x 120 mm**
9917 | S.18

**Wire-pull casing[4] 400 x 300 x 220 mm**
9917.21 | S.18

**Heightening frame**
9917.68 /
9916.68 | S.18

**Plaster cover**
9917.06 /
9916.06 | S.18

**Screw-in cover**
9917.02 /
9916.02 | S.18

**Waterproof cover**
9917.03 /
9916.03 | S.18

**Prefix® wing set**
9940.. | S.18

**Telescope support**
9957

**Wire-pull casing 250 x 105 x 94 mm**
9914.01

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# Precast concrete.

## Installation in walls

**One-gang junction box (48.5 mm)**
1262-60 | S.22

**One-gang junction box (68.5 mm)**
1263-60 | S.22

**One-gang junction box (83.5 mm)**
1264-60 | S.22

**One-gang junction box (48.5 mm)**
1262-70 | S. 22

**One-gang junction box (68.5 mm)**
1263-70 | S.22

**One-gang junction box (48.5 mm)**
1262-61

**One-gang junction box (68.5 mm)**
1263-61 | S.22

**One-gang junction box (83.5 mm)**
1264-61 | S.22

**One-gang junction box (48.5 mm)**
1262-71 | S.22

**One-gang junction box (68.5 mm)**
1263-71 | S.22

**Conduit connector 60°**
1266-25 | S.22

**Conduit connector**
1261-20/25/32/40 | S.22

## Accessories

**Distance piece 142**
1261-18

**Holding solenoid**
1261-81 | S. 22

**Plaster compensation ring**
1261-60

**extension element 10 to 50 mm**
1261-10 | S. 32

**Abutments**
1261-11/72

**Universal extension element**
1261-06/07/08/09

## Installation in ceilings

**Large slab ceiling box 115**
1227-55 | S.24

**Large slab ceiling box 105**
1227-54 | S.24

**Slab ceiling box for retrofitting**
1247- 01 | S.24

## Installation in ceilings


**Wall to ceiling transition**
1261-12 | S.2525


**Wall to ceiling transition**
1261-73 | S.2525


**Wall to ceiling transition**
1261-16 | S.2525


**Wall to ceiling transition**
1261-14 | S.25.25


**Oval funnel**
1261-42 | S.2525


**Oval funnel**
1261-43 | S.2525

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# Installation housing for on-site mixed concrete.

## Installation size up to Ø 100 mm

**HaloX® 100**
**for on-site mixed concrete**
1281-00 | S.30

**HaloX® 100**
**with tunnel 190 for on-site mixed concrete**
1281-30 | S.30

**HaloX® 100**
**Multi-conduit entry**
1281-15 | S.30

**HaloX® 100 front parts**
1281-01..07 | S.28

**HaloX® 100 front parts for square DA**
1281-08/09 | S.28

**HaloX® 100 front parts for facing concrete**
1281-61..67 | S.28

**HaloX® 100 front parts for square DA, for facing concrete**
1281-68/69 | S.28

**HaloX® 100 universal front part, plastic**
1281-10 | S.28

**HaloX® 100 universal front part with mineral fibreboard**
1281-11 | S.28

**HaloX® Styrofoam moulded parts**
1292-90 | S.28/41

**HaloX® 100 extension rings**
1281-21/25/50 | S.30

**Prefix® installation kit**
1299-65 | S.30

## Installation size up to Ø 180 mm

**HaloX® 180**
**for on-site mixed concrete**
1282-00 | S.30

**HaloX® 180**
**with tunnel 190 for on-site mixed concrete**
1282-30 | S.30

**HaloX® 180**
**with tunnel 325 for on-site mixed concrete**
1282-40 | S.30

**HaloX® 180 front parts**
1282-01..06 | S.28

**HaloX® 180 front parts for facing concrete**
1282-61..66 | S.28

**HaloX® 180 universal front part, plastic**
1282-10 | S.28

**HaloX® 180 Universal front part with mineral fibreboard**
1282-11 | S.28

**HaloX® Styrofoam moulded parts**
1292-90 | S.28/41

**HaloX® 180 extension rings**
1282-25/50 | S.30

**Wall installation kit**
1299-60...64 | S.30

**Prefix® installation kit**
1299-66 | S.30

## Installation size up to Ø 250 mm

**HaloX® 250**
**for on-site mixed concrete**
1283-00 | S.30

**HaloX® 250**
**with tunnel 325 for on-site mixed concrete**
1283-40 | S.30

**HaloX® 250 front parts**
1283-01..06 | S.28

**HaloX® 250 front parts for facing concrete**
1283-61..66 | S.28

**HaloX® 250 universal front part, plastic**
1283-10 | S.28

**HaloX® 250 universal front part with mineral fibreboard**
1283-11 | S.28

**HaloX® Styrofoam moulded parts**
1292-90 | S.28/41

**HaloX® 250 extension rings**
1283-25/50 | S.30

**Wall installation kit**
1299-60...64 | S.30

**Prefix® installation kit**
1299-66 | S.30

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# Installation housing for precast concrete.

**Installation size up to Ø 180 mm | adhesive attachment**

**HaloX®180**
**1282-71 |** S.32

**HaloX® 180**
**with tunnel 190**
1282-72 | S.32

**HaloX® 180**
**with tunnel 325**
1282-73 | S.32

**HaloX® 180 extension rings**
1282-25/50 | S.32

**HaloX® 180 replacement mineral fibreboard**
1282-27 | S.32

**Installation size up to Ø 180 mm | magnet attachment**

**HaloX® 180**
**1282-74 |** S.32

**HaloX® 180**
**with tunnel 190**
1282-75 |S.32

**HaloX® 180**
**with tunnel 325**
1282-76 | S.32

**HaloX® 180**
**extension rings**
1282-25/50 | S.32

**Holding solenoid 40 mm**
1299-67 | S.32

**Installation size up to Ø 250 mm | adhesive attachment**

**HaloX® 250**
**1283-71 |** S.32

**HaloX® 250**
**with tunnel 325**
1283-73 | S.32

**HaloX® 250 extension rings**
1283-25/50 | S.32

**HaloX® 250 replacement mineral fibreboard**
1283-27 | S.32

**Installation size up to Ø 250 mm | magnet attachment**

**HaloX® 250**
**1283-74 |** S.32

**HaloX® 250**
**with tunnel 325**
1283-76 | S.32

**HaloX® 250**
**extension rings**
1283-25/50 | S.32

**Holding solenoid 40 mm**
1299-67 | S.32

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# Universal installation housing.

**Universal installation housing**
**90 x 90 x 70 mm**
1223-22 | S.36

**Universal installation housing**
**150 x 90 x 70 mm**
1224-22 | S.36

**Universal installation housing**
**128 x 128 x 86 mm**
1295-22 | S.36

**Universal installation housing**
**180 x 180 x 90 mm**
1296-22 | S.36

**Universal installation housing**
**250 x 220 x 90 mm**
1297-22 | S.36

**Universal installation housing**
**258 x 188 x 135 mm**
1298-37 | S.36

**Universal installation housing**
**258 x 188 x 200 mm**
1298-38 | S.36

**Universal installation housing**
**408 x 308 x 135 mm**
1297-34 | S.36

**Universal installation housing**
**408 x 308 x 235 mm**
1297-35 | S.36

**Telescope support**
9957

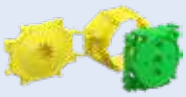
# Installation housings for retrofitting.

**Installation size up to Ø 100 mm**

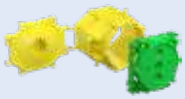
**HaloX® 100 installation kit**
1281-20 | S.38

**HaloX® housing for drilling holes in solid ceilings**
1290-30 | S.39

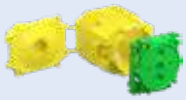
# Facing concrete.



**B¹ One-gang box**
1255-01 | S.40



**B¹ One-gang junction box**
1265-01 | S.40



**B¹ Large conduit one-gang junction box**
1260-01 | S.40

**Prefix® 60**
1211-61 | S.10.40

**Prefix® 35**
1211-36 | S.10.40


**B¹ Domed box 45°**
1249-11 | S.40


**B¹ Domed box 45°**
1249-12 | S.40

**B¹ Ceiling junction box**
1265-11 | S.40

**B¹ Ceiling junction box**
1265-12 | S.40

**B¹ Large conduit ceiling junction box**
1260-11 | S.40


**End and transition bush**
1204-24 | S.16.40


**End and transition bush**
1204-34 | S.16.40


**End and transition bush**
1204-29 | S.16.40


**Wall and ceiling transition**
1202- 04 | S.1640


**Wall and ceiling transition**
1202-34 | S.16.40


**Wall and ceiling transition**
1202-29 | S.1640

**HaloX® 100/180/250 front parts for facing concrete**
1281-61..67 / 1282-61..66 / 1283-61..66 | S.16.40

**HaloX® 100 front parts, square for facing concrete**
1281-68/69 | S.16.40

**HaloX® Styrofoam moulded parts for facing concrete**
1292-90 | S.16.40

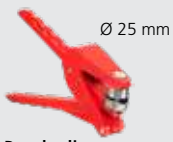
# Installation in concrete.

www.kaiser-elektro.org/gb103

**Tools**

**Universal Opening cutter Art. No 1085-80**


**Punch pliers**
Art. No 1286-33




**Punch pliers**
Art. No 1286-34

**AMZ 2 stripping pliers**
Art. No 1190-02

**Reamer**
Art. No 1284-34/35/36

**Step drill**
Art. No 1284-32

**Hole punch and expanding dowel fitting tool**
Art. No 1284-62/63

**Nail inserter**
Art. No 1284-69/68

# **Systems and solutions** for professional electrical installation work.

KAISER has been developing and producing systems and products as the basis for professional installation work since 1904. Planners and fitters all over the world use our practice-oriented solutions for their daily work in all installation areas.

## Energy efficiency.

Innovative KAISER products help you to ensure compliance with the requirements of EU Directives and national regulations such as the Energy Savings Regulations (EnEV).

## Radiation protection.

The use of the new radiation protection boxes allows the radiation protection of the wall to be maintained without additional shielding measures.

## Fire protection.

KAISER fire-protection systems provide reliable solutions for electrical installations in fire-protection walls and ceilings.

## Building.

KAISER has matching product system solutions for safe, durable and practical use in rehabilitation, renovation and modernisation projects.

## Sound insulation.

KAISER's innovative sound insulation boxes ensure compliance with the construction requirements for sound insulation walls, also for built-in installations.

## Concrete construction

Complete systems for on-site mixed concrete and precast concrete. Fully optimised to professional electrical installation work.

**Technical information and advice**

All further information on products, system solutions and communication media can be found on our website: **www.kaiser-elektro.de**

For any additional questions or information, please do not hesitate to contact our technical support team who will be happy to assist you: **+49 (0) 23 55 / 809-61** · **technik@kaiser-elektro.de**

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**www.kaiser-elektro.de** · info@kaiser-elektro.de

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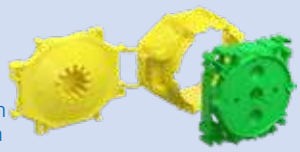
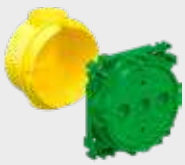
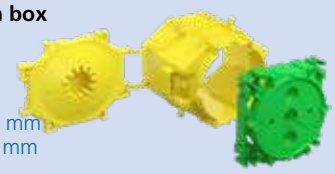
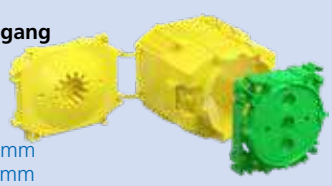
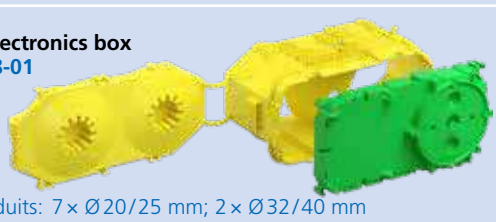
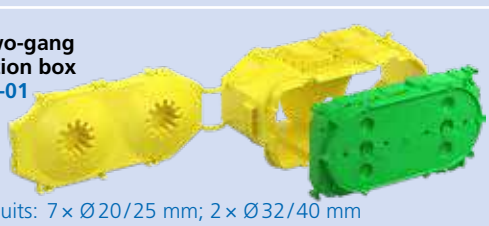
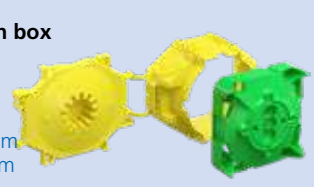
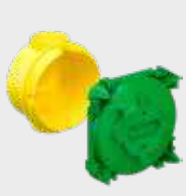
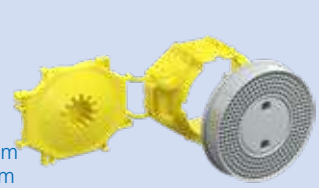
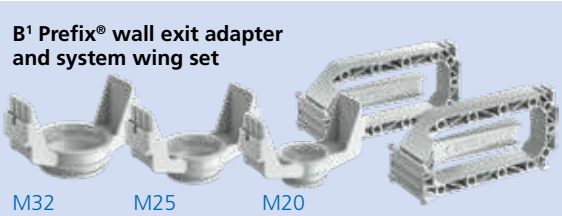
KAISER

NEX0420FROde15_6901-85 | Subject to error and technical modifications.

# On-site mixed concrete wall installation | Article will phase-out on 31.03.2021

| The new system B¹ NEW | | Previous product range |
|---|---|---|
| **B¹ one-gang box**<br>**1255-01**<br>Conduits: 6 × Ø 20/25 mm<br>Cables: 6 × max. 16 mm<br>  | **Devices** |  <br>**One-gang box**<br>1255-40 |
| **B¹ one-gang junction box**<br>**1265-01**<br>Conduits: 7 × Ø 20/25 mm<br>Cables: 7 × max. 16 mm<br>  | **Device + Junction** |  <br>**One-gang junction box**<br>1265-40 |
| **B¹ large conduit one-gang junction box**<br>**1260-01**<br>Conduits: 3 × Ø 32/40 mm<br>Cables: 3 × max. 16 mm<br>  | **Device + Junction Large conduit** |  <br>**One-gang junction box**<br>1260-40 |
| **B¹ electronics box**<br>**1268-01**<br>Conduits: 7 × Ø 20/25 mm; 2 × Ø 32/40 mm<br>Cables: 7 × max. 16 mm<br>  | **Device + Electronic modul** |  <br>**Electronics box**<br>1268-40 |
| **B¹ two-gang junction box**<br>**1269-01**<br>Conduits: 7 × Ø 20/25 mm; 2 × Ø 32/40 mm<br>Cables: 7 × max. 16 mm<br>  | **2-gang device + Junction** |  <br>**Two-gang junction box**<br>1269-40 |
| **B¹ wall light connection box**<br>**1248-01**<br>Conduits: 6 × Ø 20/25 mm<br>Cables: 6 × max. 16 mm<br>  | **Wall light** |  <br>**Wall light connection box**<br>1248-40 |
| **B¹ universal wall exit**<br>**1248-03**<br>Conduits: 6 × Ø 20/25 mm<br>Cables: 6 × max. 16 mm<br>  | **Wall light** NEW<br>(Screw-on surface) | |
| **B¹ Prefix® wall exit adapter and system wing set**<br>  <br>M32 **1211-32** M25 **1211-25** M20 **1211-20** **1211-00** | **Fixing accessories** NEW<br>(attachment to the reinforcement) | |

Product film mounting

Short trailer installation

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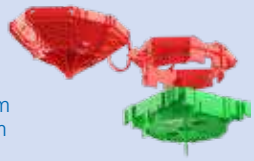
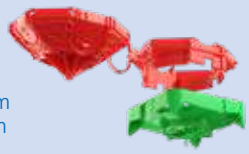
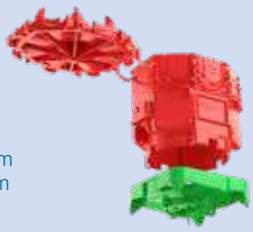
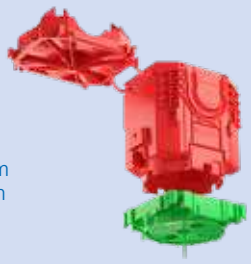
KAISER

# On-site mixed concrete ceiling installation | Article will phase-out on 31.03.2021

| The new system B¹ NEW | | Previous product range | |
|---|---|---|---|
| **B¹ domed box 45°**<br>**1249-11**<br>Conduits: 4× Ø 20/25 mm<br>Cables: 4× max. 16 mm |  | **Luminaire Ø 60 mm** | **Ceiling box 45°**<br>1249-50<br>  <br>**Domed box 45°**<br>1249-44<br>  |
| **B¹ domed box 45°**<br>**1249-12**<br>Conduits: 4× Ø 20/25 mm<br>Cables: 4× max. 16 mm |  | **Luminaire Ø 35 mm** | **Ceiling box 45°**<br>1248-50<br>  <br>**Domed box 45°**<br>1248-44<br>  |
| **B¹ ceiling junction box**<br>**1265-11**<br>Conduits: 7× Ø 20/25 mm<br>Cables: 7× max. 16 mm |  | **Device/Luminaire + Junction Ø 60 mm** |  <br>**Ceiling junction box**<br>1265-50 |
| **B¹ ceiling junction box**<br>**1265-12**<br>Conduits: 7× Ø 20/25 mm<br>Cables: 7× max. 16 mm |  | **Luminaire + Junction Ø 35 mm** |  <br>**Ceiling junction box**<br>1264-50 |
| **B¹ large conduit ceiling junction box**<br>**1260-11**<br>Conduits: 3× Ø 32/40 mm<br>Cables: 3× max. 16 mm |  | **Device/Luminaire + Junction** (Large conduit) **Ø 60 mm** |  <br>**Ceiling large conduit box**<br>1260-50 |
| **B¹ universal ceiling exit**<br>**1265-13**<br>Conduits: 7× Ø 20/25 mm<br>Cables: 7× max. 16 mm |  | **Surface-mounted device + Junction** NEW (Screw-on surface) | |
| **B¹ universal ceiling exit 45°**<br>**1249-13**<br>Conduits: 4× Ø 20/25 mm<br>Cables: 4× max. 16 mm |  | **Surface-mounted device** NEW (Screw-on surface) | |

B¹ system overview

Product film installation



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