

KAISER installation catalogue

Boxes, housings and systems

2024 / 2025



The basis for professional installation

 **KAISER**



Shaping the future.

Constantly **rethinking** the present is the best way to actively shape the future. To scrutinise the tried and tested to see if there is still room for improvement. This applies to our products just as much as it does to our actions.

We believe that sustainable thinking and actions are also reflected in well thought-out and durable installation products and tools. These not only save you time when implementing your projects, but also directly reduce the use of energy and raw materials. Potential for improvement is continuously identified and utilised.

With our **new generation of UP¹ flush-mounting boxes**, we are providing more convenience and improved working ergonomics in our traditional business field of “electrical installation”. We have taken the professional and efficient installation of flush-mounting boxes to a new level.

Our product developments for **clean room, damp room** and **timber construction** applications also offer you certified solutions for applications that go beyond the ordinary. Our new products also offer a wide range of applications for **fire protection** requirements under building regulations. Feel free to take a look at our new generation of **HWD 68+ fire-protection boxes**. In the same way, our **new tool programme** with cutters for professionals stands for robustness, easy handling and precise work results.

For **120 years**, KAISER has stood for **“The basis for a good installation”**. Our products have set many decisive trends with innovative, safe and, in particular, solutions suitable for the trade. And we will not stop scrutinising the present in order to shape the future – we promise!

*Best regards,
Burkard und Ulrich Kaiser*

Flush-mounting / masonry

Complete system for all flush-mounting/masonry applications.
Air-tight, fire protection, sound insulation, internal and external insulation.



FLUSH-MOUNTING

Cavity wall

For all cavity wall types. Standard, air-tight and halogen-free.
Solutions for fire protection, sound insulation and radiation-protection walls.



CAVITY WALL

Concrete construction (on-site mixed concrete / precast concrete)

Boxes, housings, cable and conduit systems for on-site concrete and automated / manual factory production and for modular room modules like bathrooms or garages.
Universal installation housings and international products for walls and ceilings.



CONCRETE

Installation housings

For luminaires, loudspeakers, displays and much more. For walls and ceilings in on-site mixed concrete or precast concrete. As well as for fire protection requirements, insulated hollow ceilings and thermal insulation systems.



HOUSINGS

Fire protection

Box, housing and sealing systems for fire-protection walls and ceilings.



FIRE PROTECTION

Pluggable installation / surface mounting

Modular distribution boxes for cable support systems.
Waterproof cable junction casing for outdoor applications.



PLUGGABLE

Connectivity

Solutions for professional fibre-optic and broadband expansion.
Fibre-optic laying and installation in street distribution (network level 3) and building and unit distribution (network level 4).



CONNECTIVITY

Cable glands

The professional Syntec® programme. Fittings in all sizes in plastic and brass.



CABLE GLANDS

Tools

High-quality system tools for professional electrical installation.



TOOLS

Service

Wanted. Found. From communication to the item number.

SERVICE



Assume responsibility.

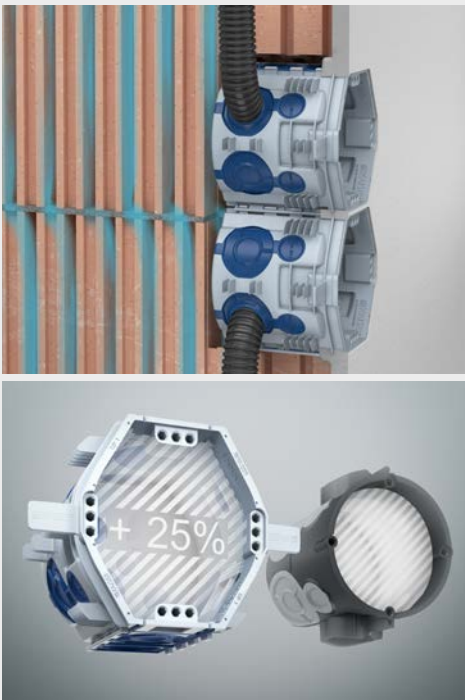
KAISER has been on the market as a family-run company with integrity, fairness and reliability for 120 years. We are recognised as a pioneer and innovation leader that has always defined new standards for the entire industry. Our understanding of corporate and social responsibility is part of our DNA. It has been serving us as a guide for three generations, determining our strategic decisions and our actions.

We believe that sustainability is an important pillar of entrepreneurship. In addition to the very tangible factors such as energy, raw materials and resources, we understand sustainable action to be, in

particular, our mission to be aware of our social responsibility. We demonstrate our attitude towards our partners in the market and are happy to document this by signing the ZVEI Code of Conduct. With the four locations of the KAISER GROUP in Germany, Belgium, the Netherlands and Switzerland, we are well networked in Europe and can therefore identify real trends, focus our energy on relevant topics and quickly feed adjustments back into the markets.

We would like to thank you for your trust in us and invite you to shape the future together with us.

Join us on this exciting journey.



Our best flush-mounting box. **UP1**.

- 25 % more installation volume
- Plaster-free quick-fixing with clamping ribs
- Stable and side-neutral combination



For the Features



1555-26



1055-26



1068-26



1656-26



Professional clean room installation. **Clean room one-gang junction box.**

- For professional installation in clean room walls and functioning containments
- Certified according to VDI 2083 sheet 19 (tightness class 7, extended class 11)
- Air-tight design with sealing membranes and peripheral sealing lip



9264-32



With universal screw-on surface. **Installation housing O-range ECON® Universal 120.**

- For mounting accessories and installation accessories
- For individual round and cornered installation openings
- Toolless cable or conduit entries

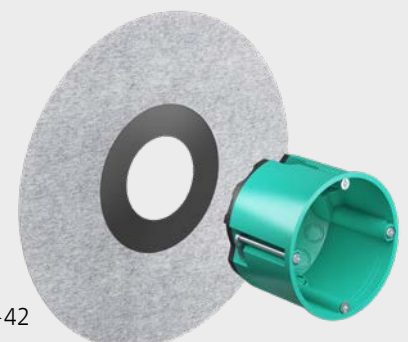


9273-50



Optimum sealing of the electrical installations: **Waterproof one-gang junction box.**

- For installation in sealed interior rooms, such as commercial kitchens, bathroom modules or damp rooms in hospitals
- Tested and certified water tightness
- Six air-tight and watertight cable entries



9264-42

pg. 118



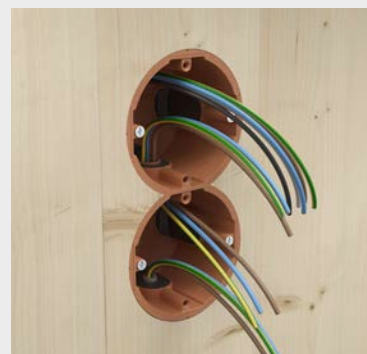
9274-22

To the product film



Efficient installation in timber construction. **One-gang junction box for solid wood.**

- Clamping rib fastening for installation
- Four screw domes
- Eight air-tight, toolless cable entries



pg. 120

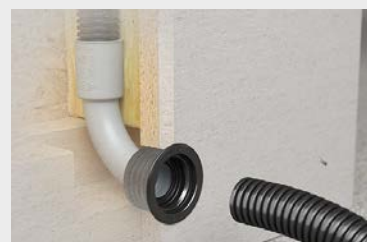


9261-25

9261-20

For prefabricated house and module construction. **90° wall and ceiling transitions.**

- For air-tight connecting of electrical installation conduits at transition points
- Air-tight component closure for front and rear installation in the boarding of wall elements or modules
- Flexible cable entry from both directions thanks to 90° elbow without abutting edges



pg. 286



9464-05

To the product film



Safe installation in timber construction. **Solid wood fire protection box PROTECT®.**

- Maintains the F30-B– F120-B fire resistance
- Toolless installation thanks to rib fixing
- Innovative cable entry enables tolerance compensation of the cable route



pg. 284



9464-03

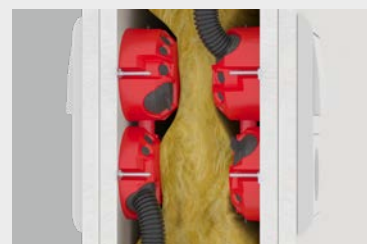
9463-03

To the product film



Safe installation in drywall construction. **One-gang and one-gang junction fire protection boxes HWD68+.**

- For F30–F90 or EI30–EI90, as well as F30-B – F90-B fire-protection walls
- Sound insulation function of the wall
- Toolless cable and conduit entry



pg. 190
pg. 228



9914.10

For universal installation entries. **Central transition casing**

- For leaving out several cables
- Conduit entries for Ø 20, 25, 32, 40, 50 and 63 mm
- Positioning of the conduit entries above the first reinforcement layer or the top of the filigree ceiling



Subscriber connection (FO-SC) E3S Connect®, surface mounting / flush-mounting, connection at HTP / FO-BD

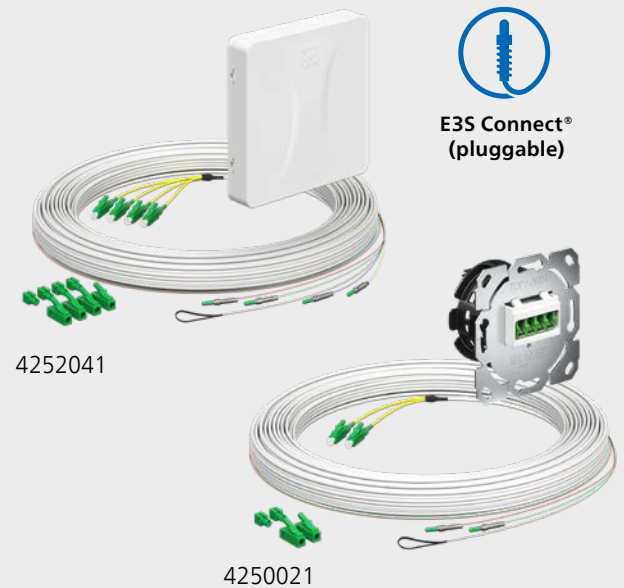
pg. 320



- With pre-assembled E3S fibre-optic cable in different lengths
- Cable retractable, insertable and blowable
- Pre-assembled cable with 2 or 4 fibres in a handy unwinding box



To the product film


E3S Connect®
(pluggable)

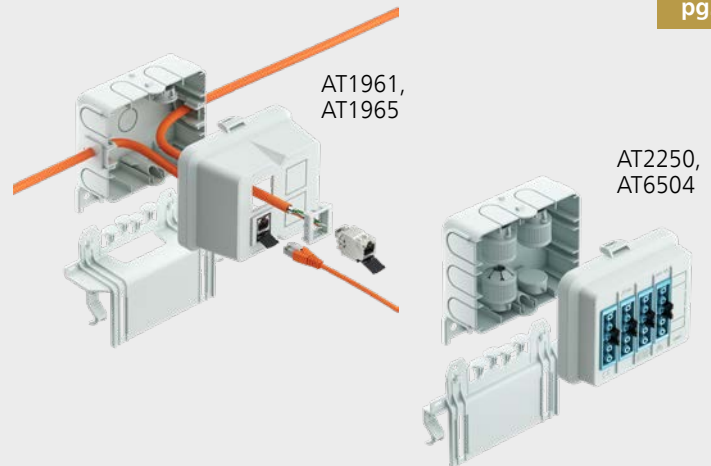
Distribution box for data networks. AK2 Data & AK2 DALI.

AK2 Data:

- Front part equipped with break-out openings for adapters to accommodate Keystone modules.

AK2 Dali:

- Prefabricated with 5-pin snap-in connectors for DALI applications
- Connectors are self-locking, can be released with tools
- Prefabricated with halogen-free connection wires 2.5 mm².



pg. 314

Drilling with a triangle. Trilo – The new cutter generation.

- Improved operating life time thanks trilo geometry
- Fast working due to easy / reliable ejection of the drill core
- Dimensionally accurate work for cavity wall installation



1081-10

To the product film



pg. 385



Energy efficiency & ETICS.

An essential component of the energy transition is energy efficiency. With professional insulation that complies with current standards and regulations,

Flush-mounting Page 14, 54, 58

Cavity wall Page 97, 122

Luminaire and loudspeaker housings Page 266



Fire protection.

Structural fire protection measures serve the purpose of preventing the spread of flames and smoke in the event of a fire, so that escape and rescue routes remain usable.

Fire protection Page 274



Sound insulation.

Sound insulation walls make a significant contribution to well-being in buildings, as they allow for quiet, confidentiality and security.

Flush-mounting Page 39

Cavity wall Page 130



Radiation protection.

Structural radiation protection measures are used in hospitals, doctors' surgeries and any facility where X-ray and gamma irradiation equipment is used

Cavity wall Page 138



Construction / Timber construction.

For efficient, safe electrical installation – regardless of whether these involve new construction or conversion, extension, renovation or refurbishment.

Flush-mounting Page 69 / **Cavity wall** Page 118

Fire protection Page 286

Luminaire and loudspeaker housings Page 266



Pluggable installation.

Simple, fast and secure. Pre-assembled components and systems are in demand as a solution for planning and installation, especially for efficient, on-time construction.

Pluggable Page 306

Connectivity.

Fibre-optic technology is today's state-of-the-art cabling technology for telephony, Internet and television not only in the wide-area network and street distribution but also in the building distribution right down to the residential unit.

Connectivity Page 318, 340



Cable glands.

AGRO cable glands made of plastic, brass or stainless steel stand for highest quality and practicality. The innovative complete range offers everything for professional cable entries in any trade or for industrial purposes.

Cable glands Page 358



Concrete construction – on-site mixed concrete.

The modular KAISER system is universally applicable for all concreting methods and formwork types.

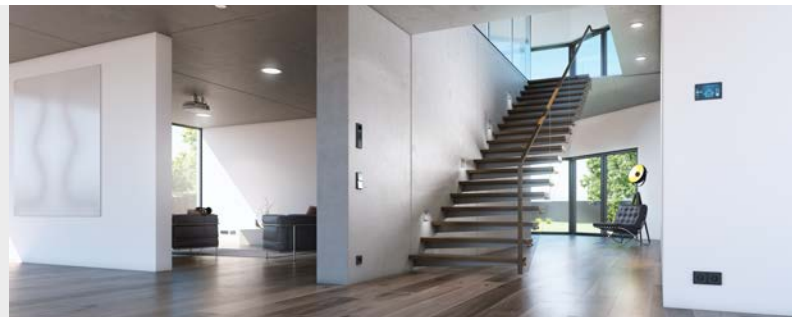
Concrete construction Page 156



Concrete construction – precast concrete.

The KAISER product range for precast concrete comprises the B² system with one-gang junction boxes, special slab ceiling boxes and housings as well as the Flat 45 system for serially prefabricated room modules.

Concrete construction Page 208



Luminaire and loudspeaker housings.

KAISER offers a wide range of installation housings for luminaires and loudspeakers for installation in concrete walls / ceilings, cavity walls / ceilings and ETICS.

Luminaire and loudspeaker housings Page 242

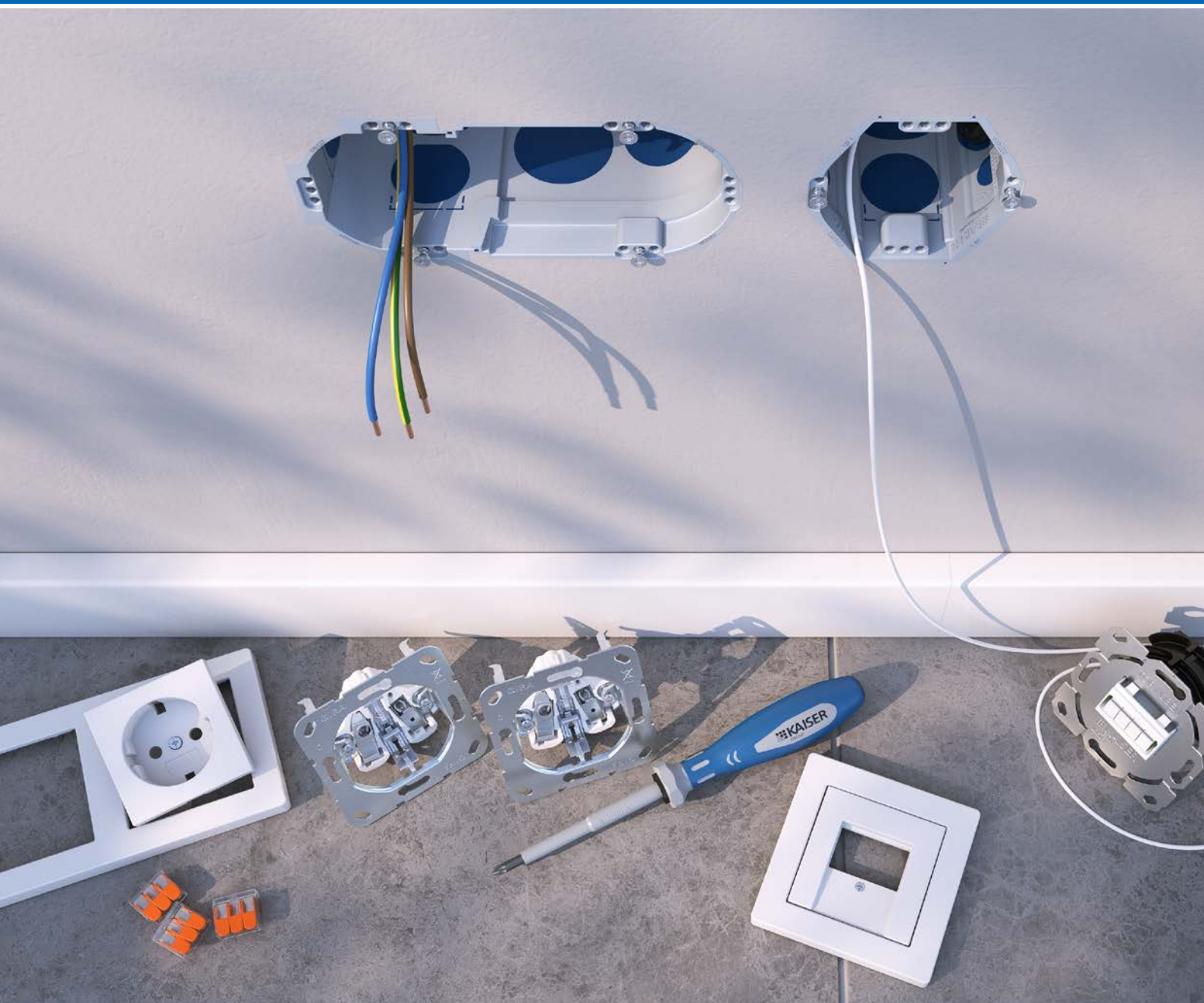


Shipbuilding.

KAISER offers solutions for use in passenger ships, such as cruise liners, passenger and car ferries or yachts, but also for cargo ships, such as LNG tankers and container ships, as well as for a wide variety of special ships up to naval frigates or even aircraft carriers.

Cavity wall Page 91
Fire protection Page 290





Well informed. KAISER Service.

When you decide to use KAISER products, you always receive comprehensive service as well. This allows both you and your customers to take advantage of all the benefits we offer.

Videos on products and applications Helpful tips & tricks for your everyday work. Here we clearly show all product and processing advantages, installation instructions, certificates and declarations of performance as well as conformity that make the product perfect.

Intelligent product filters in the online catalogue help you with your product

selection. Our BIM data, tender texts and CAD data are important building blocks for your digital planning.

- Online product catalogue
- Download of digital media
- Seminars, trade fairs and events
- Technical sales and service consultation

- Article master data and price information
- Tender texts
- BIM data
- CAD data



Videos

Our films/videos -
product features at a glance



For any products where you find this icon, we provide informative films about the installation and function of many products and system solutions on our website as well as on our YouTube-channel.



Article data

Article master data in the formats: ETIM, Eldanorm, Datanorm and Excel as well as prices for our products can be found in the service area on our website. Using the ELBRIDGE interface, you conveniently transfer your product selection to the electrical wholesaler. .



Training courses

Qualified training courses on KAISER product and system solutions at our premises or at your location upon request. Please contact us.



Online / Service

Planning documents and product information

KAISER provides BIM and CAD data as well as tender texts and EPLAN data on leading platforms to optimally support our customers and partners in the planning and implementation of projects.

The most important websites at a glance:

www.kaiser-elektro.de
www.youtube.com/kaiserelektro
kaiser.partcommunity.com
www.ausschreiben.de
www.eplandataportal.de/agro
www.kaiser-elektro.org/elbridge



The QR codes ensure quick and convenient access with your smartphone.

Flush-mounting installation



Flush-mounting base installation

- Complete system for all flush-mounting / masonry applications
- UP-PLUS technology with combination spigot M20/M25 and up to 15% more installation space
- Plaster-free assembly with KLEMMFIX®
- Easy retrieval of boxes and casings through the use of signal covers
- International products for accessory installation according to national standards
- Halogen-free



Air-tight flush-mounting installation

- Air-tight installation as per GEG
- ECON® technology: air-tight device, one-gang junction boxes for toolless cable and conduit entries
- Air-tight sleeves for the air-tight feed-through of cables and conduits



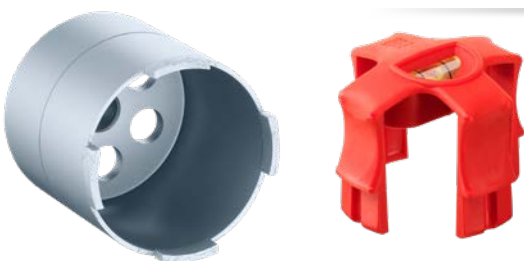
Flush-mounting special solutions

- Fire protection products
- Sound insulation products
- Universal installation housing with mineral fibreboard for all common unit sizes (e.g. displays, LED luminaires, etc.)
- Installation solutions for environmentally-friendly construction



Insulated walls and ceilings







- Installation solutions for insulated walls and ceilings (ETICS)
- Secure fastening
- Prevention of heat bridges









Tools

- Professional system tools for fast, safe installation
- Extensive system accessories

see chapter **TOOLS**
from page 376

	Basic installation	Air-tight	Sound insulation	Insulated inner wall	Shielded Environmentally-friendly construction	Fire protection
						
For installation accessories						
One-gang boxes	pg. 25	pg. 19 / pg. 28	-	-	-	-
One-gang junction boxes	pg. 25	pg. 19 / pg. 28	pg. 39	pg. 54	pg. 42	pg. 278
One-gang boxes for nail fastening	pg. 34	-	-	-	-	-
Two-gang junction boxes	pg. 33	pg. 21 / pg. 30	-	-	-	-
Electronics boxes	pg. 26	pg. 21 / pg. 30	-	-	-	-
Perilex® one-gang boxes	pg. 35	-	-	-	-	-
CEE one-gang boxes	pg. 35	-	-	-	-	-
Universal installation housings	pg. 53	-	-	-	-	-
For cable outlets						
Wall light connection	pg. 38	-	-	-	-	-
Luminaire connection	pg. 38	-	-	-	-	-
For cable and conduit feed-throughs						
Sealing sleeves	-	pg. 122	-	-	-	-
Sealings	-	-	-	-	-	pg. 294
For cable connections						
Junction boxes	pg. 36	-	-	-	-	-
Junction casings	pg. 50	-	-	-	pg. 42	-
Potential equalisation casing	pg. 51	-	-	-	-	-
Accessories						
Plaster-free assembly: KLEMMFIX®	pg. 45	pg. 45	-	-	-	-
Subsequent sealing (air-tight)	pg. 31/116	-	-	-	-	-
Sealing of electrical installation conduits (air-tight and smokeproof)	-	pg. 32	-	-	-	pg. 32
Plaster compensation	pg. 47	pg. 47	-	-	-	-
Plaster protection	pg. 46/183	pg. 46/183	-	-	-	-
End cover	pg. 47/115/205	pg. 47/115/205	-	-	pg. 42	-

Installation on or in insulated exterior walls/ceilings | Product overview

	Universal equipment carrier	System equipment carrier / telescopic equipment carrier	ThermoX® Iso + installation housing	Telescope switch box	Mini equipment carrier	One-gang junction boxes ECON® Styro55 / ECON® Iso +
						
	pg. 59	pg. 65 / pg. 71	pg. 68	pg. 71	pg. 74	pg. 77 / pg. 79
Installation variant						
prepared installation	•	•	•	•	-	- / •
retrofitting	-	-	-	-	•	•
Application						
Accessories	•	•	-	-	•	-
Built-in luminaires / accessories	-	-	•	-	-	-
Corner accessories	-	-	-	-	•	-
Installation accessories 1-fold combination*	•	-	-	•	-	•
Installation accessories up to 3-fold combinations	•	-	-	-	-	•
Installation accessories up to 5-fold combinations	-	-	-	-	-	•

* Universal screw-on surface



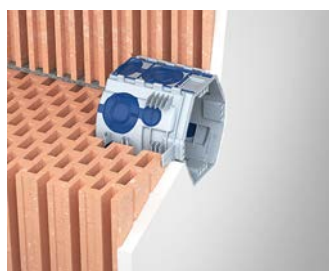
UP¹ flush-mounting boxes

UP¹, the new flush-mounting range for electrical installation, takes flush-mounting installation to a new level and makes it easier than ever before. 25% more installation volume compared to conventional flush-mounting one-gang junction boxes enables convenient accommodation of cables, connection terminals and installation accessories. The quick-fixing by means of ribs in all stones ensures up to 50% time savings during installation without plaster. The side-neutral and stable combination quickly allows multiple combinations to be created at a 71 mm centre distance. Thanks to open through-wiring and breakaway bridge, the device connection can be made without spatial separation. Accessories that are already wired, especially sockets, can therefore be installed particularly quickly and easily. The entries close to the base and through-wiring close to the base maximise the usable wiring space and facilitate the installation of the installation accessory due to the low-lying wiring material. Thanks to expanding claw fields and 4 x 3-fold screw domes, fixing the accessory is easier and more flexible than ever before. The new plaster compensation frame enables continuous plaster compensation from 10 to 35 mm with only one accessory.

- 25% more volume compared to conventional flush-mounted one-gang junction boxes
- Quick mounting in all wall constructions (ribs on the box, no mounting of accessories, use of PU foam is possible)
- Stable and side-neutral combination
- Open / diverse through-wiring
- Fully insulated through-wiring close to the base for deep boxes
- Entries close to the bottom of the box
- Triple conduit feed M25 from one direction to one-gang and one-gang junction boxes
- ECON® multi-cable conduit entries
- 4 triple screw domes / expanding claw fields
- Entries in the bottom of the box
- Stepless plaster compensation (accessories)



Application examples



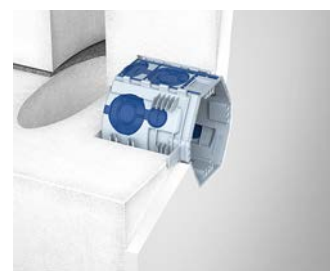
Vertically perforated bricks with and without filling, solid bricks.



Lightweight concrete.



Cellular concrete.



Lime sand brick.

UP¹ one-gang boxes, UP¹ one-gang junction boxes

for flush-mounting installation

Processing instructions



All UP¹ one-gang boxes offer generous installation space for convenient accommodation of cables, connection terminals and installation accessories.



Overlapping box diameters allow for a stable combination and open through-wiring.



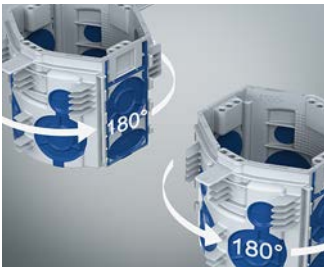
After plastering, connecting accessories can be implemented in many different ways,...



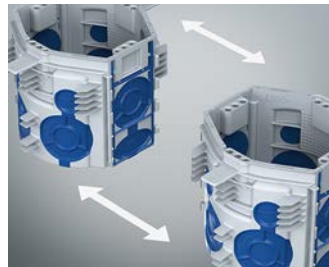
...this makes it possible, for example, to insert the connecting cables of pre-wired accessories, such as sockets, quickly and easily without having to connect them in the boxes first.

Secure connection with the new side-neutral combination

The safe combination with the KAISER side-neutral combination: place the boxes together – no matter which way round – and press them together. Now you have a stable combination with 71 mm standardised combination distance.



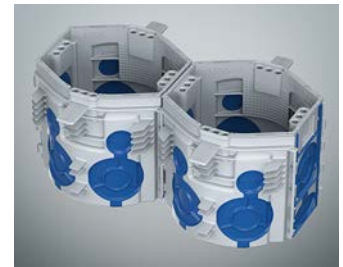
No matter which way the boxes meet...



...put them together...



...and the boxes lock together stably.

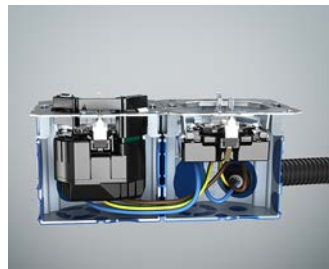


Stable and side-neutral combination in 71 mm standardised combination distance.

Processing instructions – Entries



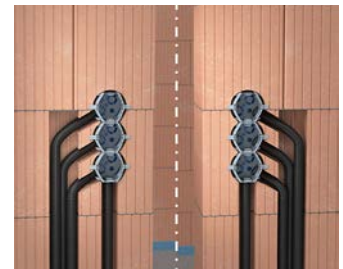
Due to entries being close to the base, the cable can be stowed directly on the base and take up little space.



Maximum usable space, thanks to fully insulated through-wiring close to the base.



Maximum flexibility thanks to three feeds up to M25 from one direction...



...e.g. next to door openings.



The UP¹ boxes also have entries in the base...



...2 entries each up to Ø 11 mm and 2 entries each up to Ø 25 mm with stiffening against pressure from expanding PU foam.



All cable and ECON® Multi-Membranes are labelled...



...this makes it easier to select the optimal entry.

UP¹ one-gang boxes, UP¹ one-gang junction boxes

for flush-mounting installation

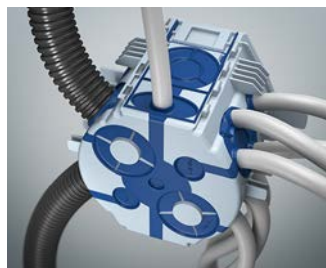
Processing instructions for the ECON[®] Multi-Membrane



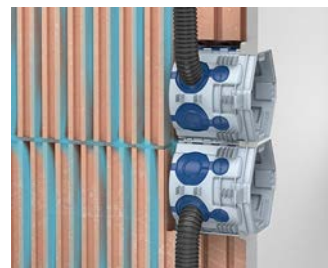
The toolless cable and conduit entries reduce installation time and make processing easier.



The elastic ECON[®] Multi-Membrane fits air-tight around the conduit or cable.



Each cable and conduit diameter up to Ø 25 mm can be installed quickly and air-tight.

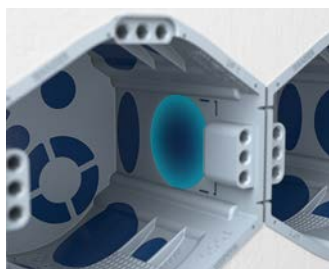


Vertical draughts occur in hollow chamber blocks. The UP¹ boxes with ECON[®] technology prevent air exchange.

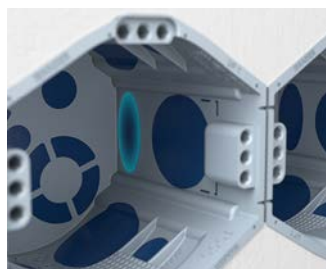
Processing instructions – Combination after plastering



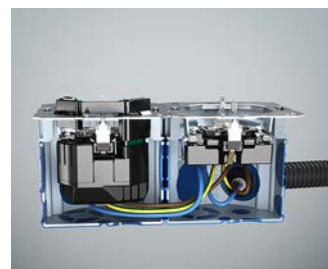
After plastering, connecting accessories can be implemented in four different ways:



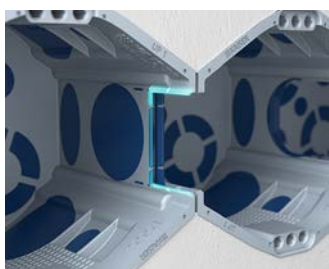
Classic connection in the middle area of the one-gang junction box...



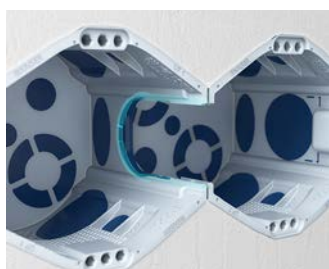
...or by the fully insulated connection close to the base in the one-gang junction boxes,...



...without routing the cable in bends from one box to the other.



Moreover, in the case of permanently installed boxes, it is possible to break out the separator wall between the combined boxes in the upper area simply with a pair of combination pliers by means of a tilting movement...



...furthermore, the underlying ECON[®] Multi-Membrane can be additionally removed for even more wiring space.

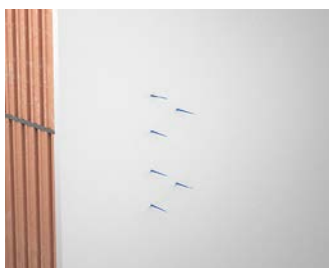


This makes it possible to insert the connecting cables of pre-wired accessories, such as sockets, quickly and easily without having to connect them in the sockets first.

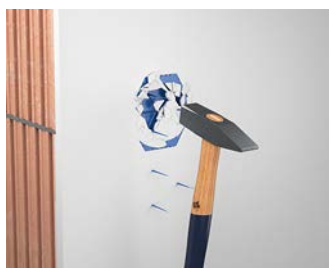


All UP¹ one-gang boxes offer generous installation space for convenient accommodation of cables, connection terminals and installation accessories.

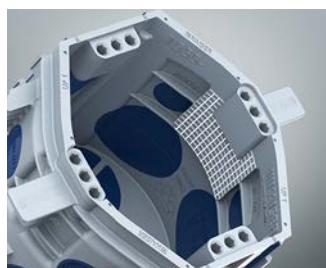
Electrical installation



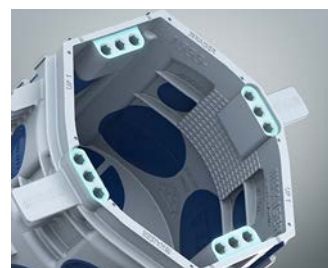
The signal bristles indicate the position of the boxes after plastering.



Open the boxes with one blow of the hammer.



Accessory fixing by means of: expanding claws or...



...4 x 3 screw domes for maximum flexibility.

Technical installation instructions

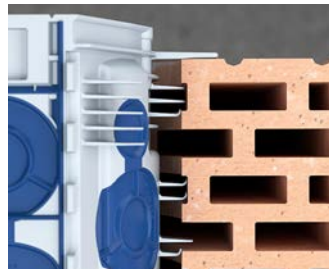
The quick-fixing of the UP¹ ECON® Fix boxes saves up to 50% installation time compared to the conventional installation of flush-mounting boxes with plaster. The box is securely fixed in the wall and held in position before plastering.

- For fitting boxes without plaster
- For all common bricks such as lime sand brick, cellular concrete, lightweight concrete, vertically perforated bricks with and without filling
- Secure, clean and time-saving
- Alignment and secure mounting even before plastering
- Can also be used at sub-zero temperatures
- By plastering the wall and allowing plaster to penetrate into the annular gap around the box, the box is finally and permanently fixed
- For thin plaster, remove the depth stop and additionally fix the boxes with flush-mounting gun foam
- Not applicable when using clay plaster

Installation advantages – Installation without plaster



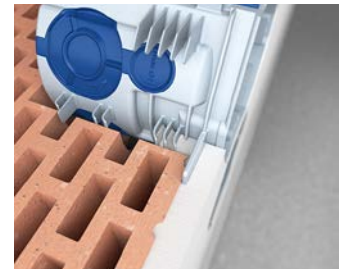
The UP¹ ECON® Fix family with rib fixing for mounting without plaster.



Fixing with ribs on several levels for secure fixing in all stones.

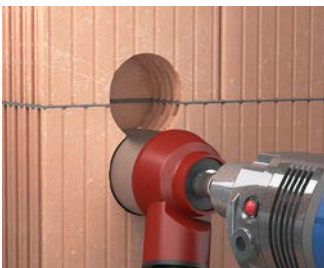


Depth stop to ensure the minimum plaster thickness.



The plaster penetrates between the box and the stone, ensuring that the box is securely and permanently fixed.

Installation – Installation without plaster



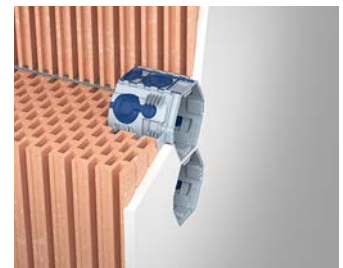
Make the installation opening Ø 82 mm with the diamond grinding head (Art. No. 1088-02).



Insert the UP¹ one-gang box or one-gang junction box with ribs.



Put on the signal cover (Art. No. 1181-65) and plaster the wall.



The penetration of the plaster between the box and the stone fixes the box securely and permanently.

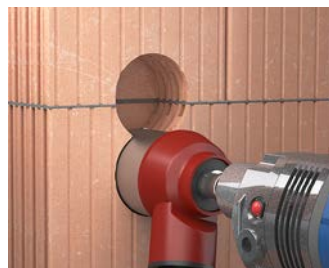
UP¹ one-gang boxes, UP¹ one-gang junction boxes

for flush-mounting installation

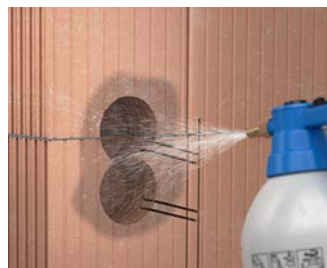
Installation instructions – Installation with flush-mounting gun foam



Alternatively, the UP¹ ECON® Fix boxes can be fixed with flush-mounting gun foam (Art. No. 1155-95).



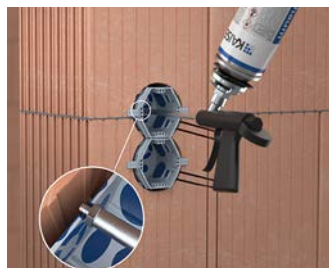
Make the installation opening Ø 82 mm with the diamond grinding head (Art. No. 1088-02).



Spray the wall with water...



...and insert the UP¹ one-gang box or one-gang junction box with ribs.



Pierce the TPE membrane in the centre of the bottom of the box...



...and foam-in the box.



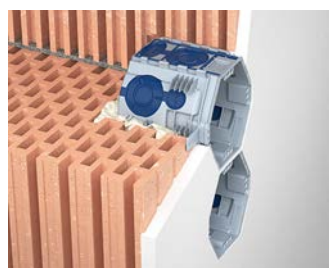
If necessary, remove excess foam after curing so that plaster can still penetrate between the box and the stone.



Then fit signal cover (Art. No. 1181-65) ...



...and the wall is plastered.



The penetration of the plaster between the box and the stone fixes the box securely and permanently.

UP¹ ECON[®] Fix one-gang box

- More volume than conventional one-gang boxes
- With quick fixing for installation without plaster
- With 4 x 3 screw domes
- Side-neutral combination
- Many through-wiring possibilities
- Standardised combination distance 71 mm


NEW



INNOVATION



3D animation

Depth	46 mm
Drill hole Ø	82 mm
With depth stop	Yes
With quick-fixing (also suitable for PU foam)	Yes
Screw spacing	60 mm
Number of screw domes	4 x 3
Tool-free line and pipe entries in the combination range up to M25	2
Toolless line and pipe entries up to M25 on the box circumference	4
Toolless cable entries up to Ø 11 mm in the bottom of the box	2
Toolless pipe entries up to M25 in the box bottom	2
Halogen-free	Yes
Air-tight	Yes
	Yes
Art.-No.	1055-26
Inner packaging/shipping	25 / 250

UP¹ ECON[®] Fix one-gang junction box

- More volume than conventional one-gang junction boxes
- With quick fixing for installation without plaster
- With 4 x 3 screw domes and 2 expanding claw fields
- Side-neutral combination
- Many through-wiring possibilities
- Standardised combination distance 71 mm


NEW



INNOVATION



3D animation

Depth	66 mm
Drill hole Ø	82 mm
With depth stop	Yes
With quick-fixing (also suitable for PU foam)	Yes
Screw spacing	60 mm
Number of screw domes	4 x 3
Splayed claw fields	2
Tool-free cable entries close to the floor up to Ø 11 mm in the combination area	2
Tool-free line and pipe entries in the combination range up to M25	2
Toolless cable entries up to Ø 11 mm on the box circumference	4
Toolless line and pipe entries up to M25 on the box circumference	4
Toolless cable entries up to Ø 11 mm in the bottom of the box	2
Toolless pipe entries up to M25 in the box bottom	2
Halogen-free	Yes
Air-tight	Yes
	Yes
Art.-No.	1555-26
Inner packaging/shipping	20 / 200



NEW

UP¹ ECON[®] electronics box and UP¹ ECON[®] two-gang junction box

The UP¹ ECON[®] electronic box and UP¹ ECON[®] double one-gang junction box extend the new UP¹ family. The UP¹ ECON[®] electronics box provides a generously-sized accessory installation space and additional space for fitting small switch actuators, etc. The matching separator wall allows the standardised installation of bus and operating voltage in one box. The UP¹ ECON[®] two-gang junction box makes it easier than ever to install special accessories. The large installation opening and the very large installation compartment make it possible to install block and pre-wired accessories, and they create space for the assembly of cables for multi-media connections.

- With quick fixing for installation without plaster
- Elastic sealing membrane for guaranteed air-tightness
- Variable and tool-free insertion of cables and DIN EN conduits up to M32
- Additional space for decentral installation of KNX / smart home UP actuators, flush-mounted cut-off relays for Venetian blinds, and many more
- Separator wall for standardised fitting of two voltage types in one box
- Maintenance of cable bending radii for network connection boxes – optimal data transfer
- Easy installation of pre-wired accessories and multi-media connection boxes



Examples of applications for the ECON[®] UP¹ electronics box



By inserting the separator wall, two different voltage types can be fitted in a standardised way in the electronics box. In addition, they provide a generously-sized installation space...



...for the decentral installation of, for example, small window actuators for controlling Venetian blinds and heating in the outer wall.



Thanks to the electronics box, it is easy to install radio-controlled actuators, etc., without putting excessive strain on cables or accessories.



Network connection boxes can be used while maintaining the cable bending radii and with the best possible data transfer speeds.

Processing instructions



The permanently elastic sealing membrane used in ECON[®] technology guarantees the airtight connection of cables up to Ø 11 mm, and conduits up to Ø 32 mm.



Two ECON[®] multi-membrane entries up to M32 enable the insertion of prefabricated cables with connectors such as HDMI.



The sealing membrane fits tightly around the cable or conduit and permanently prevents leakage in outer walls and in inner walls next to outer walls.



The peripheral sealing lip between the box body and the front part ensures an air-tight connection i.e. retention of the building's air-tight seal.

UP¹ ECON[®] Fix electronics box


- With quick fixing for installation without plaster
- With 4 x 3 screw domes
- Side-neutral combination
- Many through-wiring possibilities
- Standardised combination distance 71 mm

NEW

INNOVATION



3D animation

Length x Width x Depth	149 x 80 x 68 mm
Drill hole Ø	2 x 82 mm
With depth stop	Yes
With quick-fixing (also suitable for PU foam)	Yes
Screw spacing	60 mm
Number of screw domes	4 x 3
Device screws	2
Tool-free cable entries close to the floor up to Ø 11 mm in the combination area	3
Tool-free line and pipe entries in the combination range up to M25	3
Toolless cable and conduit entry into box shells up to M25	3
Toolless cable and conduit entry into box shells up to M32	2
Toolless cable entries up to Ø 11 mm in the bottom of the box	4
Toolless pipe entries up to M25 in the box bottom	2
Halogen-free	Yes
Air-tight	Yes
	Yes
Art.-No.	1068-26
Inner packaging/shipping	10 / 100

UP¹ ECON[®] Fix two-gang junction box


- With quick fixing for installation without plaster
- With 6 x 3 screw domes
- Side-neutral combination
- Many through-wiring possibilities
- Standardised combination distance 71 mm

NEW

INNOVATION



3D animation

Length x Width x Depth	149 x 80 x 68 mm
Drill hole Ø	2 x 82 mm
With depth stop	Yes
With quick-fixing (also suitable for PU foam)	Yes
Screw spacing	60 mm
Number of screw domes	6 x 3
Device screws	4
Tool-free cable entries close to the floor up to Ø 11 mm in the combination area	3
Tool-free line and pipe entries in the combination range up to M25	3
Toolless cable and conduit entry into box shells up to M25	3
Toolless cable and conduit entry into box shells up to M32	2
Toolless cable entries up to Ø 11 mm in the bottom of the box	4
Toolless pipe entries up to M25 in the box bottom	2
Halogen-free	Yes
Air-tight	Yes
	Yes
Art.-No.	1656-26
Inner packaging/shipping	10 / 100



Stepless plaster compensation frame UP¹

With the newly developed plaster compensation frame, even accessories in boxes that are installed too low can be installed flush with the wall and in compliance with standards. Also ideal for renovations. The plaster compensation frame is stepless adjustable and can therefore, e.g. bridge retrofitted wall plaster or tiled walls professionally.

- To compensate for boxes that are positioned too low
- Continuously adjustable from 10 - 35 mm
- Installation accessories can be installed directly with the compensation frame or retrofitted
- Including screws 40 mm, Pozidriv drive



Processing instructions



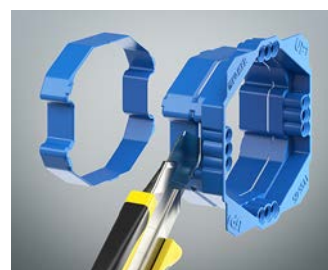
Insert the plaster compensation frame into the box.



Either mount the accessory and the plaster compensation frame together on the box with a screw...



...or first mount the plaster compensation frame and fix the installation accessory later.



The plaster compensation frame can be shortened in segments if required.

Stepless plaster compensation frame UP¹

- To compensate for deep-seated boxes
- To maintain IP protection class
- With 2 fixing screws 40 mm



Height	10 - 35 mm
Screw spacing	60 mm
Steplessly adjustable	Yes
for UP ¹ appliance outlets and UP ¹ appliance junction boxes	Yes
Halogen-free	Yes
Art.-No.	1155-65
Inner packaging/shipping	10 / 100

Signal cover UP¹

The signal cover for the new UP¹ flush mounting boxes protects the inside of the box and the screw domes during plastering, while the tried-and-tested signal bristles make it easier to find them after plastering. The soft signal bristles gently wrap around and prevent splashing when cleaning.

- Protects interior of box, screwing dome and screw heads when plastering
- Signal bristles facilitate finding after plastering
- Soft signal bristles gently wrap around and prevent splashing when plastering
- Reusable



NEW



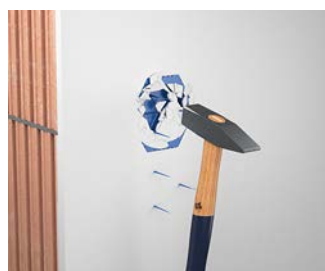
Processing instructions



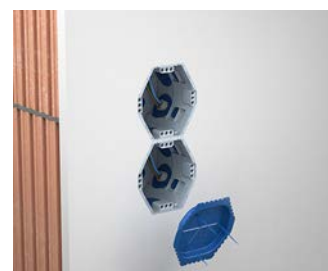
Fit signal cover (Art. No. 1181-65).



When plastering, the soft signal bristles wrap around without splashing and at a later time, indicate the position of the box.



After opening with one blow of the hammer...



...the boxes are cleanly opened, the signal lid can be used several times.

Signal cover UP¹

- Reusable
- Protects interior of box, screwing dome and screw heads when plastering

NEW



INNOVATION

For installation opening	60 mm	2 x 60 mm
for UP ¹ appliance outlets, UP ¹ appliance junction boxes and UP ¹ electronic box	Yes	-
for UP ¹ two-gang junction box (Art. No. 1656-26)	-	Yes
Art.-No.	1181-65	1181-16
Inner packaging/shipping	50 / 1000	- / 50

Flush-mounting gun foam

INNOVATION

- For additional fixing of the UP¹ ECON® Fix boxes
- For processing with commercially available PU foam guns with M65 threaded connection
- Can be used with Art. No. 1055-26, 1555-26, 1068-26 and 1656-26
- 1-component PU foam
- Building material class E according to EN 13501 (DIN 4102 B2 quality)
- Fine-pored foam structure
- Ambient processing temperature -10°C to +30°C, optimum +20°C, 60% relative humidity (box temperature min. +5°C)
- Humidity curing / Adhesive-free within approx. 10 min
- Can be cut after approx. 30 min. / Fully loadable after approx. 12 h
- Temperature resistant cured from -40 °C to +80 °C
- Can be stored up to 12 months / Please note the safety data sheet

NEW



Contents	750 ml
Art.-No.	1155-95
Inner packaging/shipping	- / 12

Subject to modifications



Flush-mounting installation boxes

With the innovative KAISER UP-PLUS technology, the flush-mounting range impresses with a PLUS in terms of fitting convenience and flexibility. This range with the practical combination connection piece for quick, safe combinations ensures a torsion-proof pluggable connection for combinations with the snap-in connector, as well as a guaranteed standardised combination distance of 71 mm. The variable combination connection pieces are suitable for M20/M25 conduits and cables, and are standard for KAISER flush-mounting boxes. There are further entries for M20/M25 conduits and cables around the circumference of the box, as well as an entry for M20 conduits or cables at the bottom of the box. Four screw domes and two expanding claw fields offer secure, flexible mounting options for all types of devices, and thus round off the flush-mounting range.

- Variable combination connection piece for conduits up to M25 and cables
- Snap-in connector for torsion-proof and guaranteed standardised combination distance of 71 mm
- Flexible for screw and expanding claw fixing
- Optimum installation space
- UP-PLUS – with distance support, tunnel connector and KLEMMFIX® for quick, secure installation



Entries for cables and DIN EN conduits



Secure combination with the combination connection piece

An audibly secure combination with the KAISER combination connection piece. Place the boxes next to each other. Place the centering piece in the groove and press together until you hear a „click“. Now you have a torsion-proof combination with a standardised combination distance of 71 mm.




One-gang box

- dimensions in accordance with German DIN 49073
- For M20/M25 conduits and cables



Product-Data


Depth	46 mm	46 mm
Screw spacing	60 mm	60 mm
Number of screw domes	4	4
Splayed claw fields	2	2
Conduit entries M20	3	3
Conduit entries M25	2	2
Combination conduit entries M20/25	2	2
Halogen-free	Yes	Yes
Device screws	-	2
	Yes	Yes
Art.-No.	1055-04	1056-04
Inner packaging/shipping	25 / 500	25 / 500

Flush mounting one-gang junction box

- dimensions in accordance with German DIN 49073
- For M20/M25 conduits and cables




Product-Data

Depth	66 mm	66 mm
Screw spacing	60 mm	60 mm
Conduit entries M20	9	9
Number of screw domes	4	4
Splayed claw fields	2	2
Conduit entries M25	2	2
Combination conduit entries M20/25	2	2
Halogen-free	Yes	Yes
Device screws	-	2
	Yes	Yes
Art.-No.	1555-04	1556-04
Inner packaging/shipping	25 / 250	25 / 250

One-gang junction box with side cavities for connections

- with side cavities for connections
- from above 4 x multi-lead wiring
- dimensions in accordance with German DIN 49073
- For M20/M25 conduits and cables



Length x Width x Depth	110 x 71 x 49 mm
Screw spacing	60 mm
Number of screw domes	4
Conduit entries M20	6
Conduit entries M25	4
Combination conduit entries M20/25	2
Device screws	2
Halogen-free	Yes
	Yes
Art.-No.	1069-02
Inner packaging/shipping	10 / 100

Electronics box



The electronics box has space for electronic components. The accompanying separator wall also enables you to have different kinds of voltages in one box.

- For accessories and electronic components such as EIB actuators, communication and network technology, radio-controlled elements, alarm modules, etc.
- Can be combined with KAISER one-gang boxes via snap-in connector
- Optimal for use as an entry box for combinations
- The separator wall (supplied) turns it into a twin-chamber box



Application



The range of possibilities is as diverse as their solutions.



Here for example is a relay for central control of several roller blind drives or a flush mounting EIB interface with a conventional button.



For communication equipment, the box volume is ideal for accommodating cable reserves.




Concealed installation of electronic components such as radio-controlled modules, EIB actuators, emergency lighting or cable lengths in data network technology.

Electronics box

- Twin-chamber box (with separator wall)
- dimensions in accordance with German DIN 49073
- For M20/M25 conduits and cables



Length x Depth	149 x 67 mm
Screw spacing	60 mm
Number of screw domes	4
Conduit entries M20	11
Conduit entries M25	2
Combination conduit entries M20/25	4
Device screws	2
Halogen-free	Yes
	Yes
Art.-No.	1068-02
Inner packaging/shipping	10 / 100

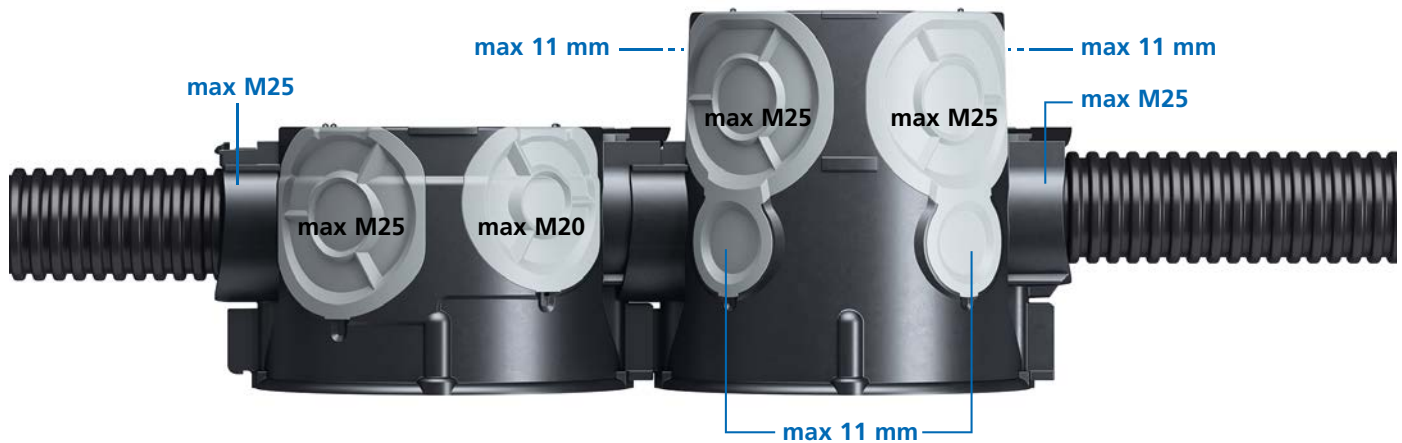
Air-tight flush-mounting boxes

Flush-mounting boxes with ECON® technology permit guaranteed air-tight installation. They offer a variety of options for air-tight conduit and cable entries and can be either plastered or processed using Klemmfix®. The new ECON® Multi-Membrane allows the insertion of several cables without gusset formation or the insertion of conduits up to M25.

- Air-tight design with ECON® sealing membranes
- Avoids leaks in exterior facades made from hollow chamber blocks
- Variable and tool-free cable and conduit entries
- Torsion-proof, guaranteed standardised combination distance of 71 mm



Entries for conduits and DIN EN conduits



Processing instructions



The tool-free cable and conduit entries reduce installation time and make processing easier.



The elastic sealing membrane fits air-tight around the conduit or cable.



Each cable and conduit diameter up to Ø 25 mm can be installed quickly and air-tight.



Vertical draughts occur in hollow chamber blocks. The UP boxes with ECON® technology prevent air exchange.

Air-tight one-gang boxes, One-gang junction boxes for flush-mounting installation

One-gang box ECON® 10


- Air-tight design with ECON® sealing membranes
- dimensions in accordance with German DIN 49073
- For M20/M25 conduits and cables



3D animation



Product-Data

Depth	46 mm	46 mm
Screw spacing	60 mm	60 mm
Number of screw domes	4	4
Conduit entries M20	2	2
Conduit entries M25	2	2
Tool-free cable and conduit entries in the connector area up to M25	2	2
Air-tight	Yes	Yes
Halogen-free	Yes	Yes
Device screws	-	2
	Yes	Yes
Art.-No.	1055-21	1056-21
Inner packaging/shipping	25 / 500	25 / 500

One-gang junction box ECON® 15


- Air-tight design with ECON® sealing membranes
- dimensions in accordance with German DIN 49073
- For M20/M25 conduits and cables



3D animation



Product-Data

Depth	66 mm	66 mm
Screw spacing	60 mm	60 mm
Number of screw domes	4	4
Splayed claw fields	2	2
Tool-free cable and conduit entries in the connector area up to M25	2	2
Tool-free cable and conduit entries up to 11 mm below the connector	2	2
Tool-free cable and conduit entries up to M25 around the box	4	4
Tool-free cable and conduit entries up to 11 mm around the box	4	4
Air-tight	Yes	Yes
Halogen-free	Yes	Yes
Device screws	-	2
	Yes	Yes
Art.-No.	1555-21	1556-21
Inner packaging/shipping	25 / 250	25 / 250

Electronics box ECON® and two-gang junction box ECON®

The electronics box and two-gang junction box using ECON® technology and a multi-membrane are ideal for installation in masonry walls in which the interior plaster forms the air-tight closure on the room side. The electronics box ECON® provides a generously-sized accessory installation space and additional space for fitting small switch actuators, etc. The matching separator wall allows the standardised installation of bus and operating voltage in one box. The two-gang junction box ECON® with a multi-membrane makes it easier than ever to install special accessories. The large installation opening and the very large installation compartment make it possible to install block and pre-wired accessories, and they create space for the assembly of cables for multi-media connections.

- Elastic sealing membrane for guaranteed air-tightness
- Variable and toolless insertion of single cables, duplex cables and DIN EN conduits
- Additional space for decentral installation of KNX / LON UP actuators, flush-mounted cut-off relays for Venetian blinds, and many more
- Separator wall for standardised fitting of two voltage types in one box
- Maintenance of cable bending radii for network connection boxes – optimal data transfer
- Easy installation of pre-wired accessories and multi-media connection boxes



Examples of applications for the ECON® electronics box



By inserting the separator wall, two different voltage types can be fitted in a standardised way in the electronics box. In addition, they provide a generously-sized installation space...



...for the decentral installation of, for example, small window actuators for controlling Venetian blinds and heating in the outer wall.



Thanks to the electronics box, it is easy to install radio-controlled actuators, etc., without putting excessive strain on cables or accessories.



Network connection boxes can be used while maintaining the cable bending radii and with the best possible data transfer speeds.

Air-tight one-gang boxes, one-gang junction boxes for flush-mounting installation

Examples of applications for the two-gang junction box ECON®



Thanks to its large installation opening without a central bridge, the two-gang junction box allows...



...the use of pre-wired accessories, block inserts, and many more.



It also provides an easy-to-use basis for the installation of multi-media connection boxes. The very large installation compartment has plenty of space for cable assembly.



Cable reserves and connection plugs can easily be inserted into the box and are then concealed behind the installation accessories.

Installation and connection option with distance support



Two-row combination with the two-gang junction box ECON® (Art. No. 1656-21) with two distance supports (Art. No. 1159-34)...



...for an optimised installation pattern (4-fold next to each other).



Two-row combination with the two-gang junction box ECON® (Art. No. 1656-21) and air-tight one-gang junction boxes (Art. No. 1556-21) with two distance supports (Art. No. 1159-34)...



...for an optimised installation pattern (6-fold next to each other).

Electronics box ECON®


- Separator wall for electrical circuit separation
- Air-tight design with sealing membranes



Two-gang junction box ECON®

- Air-tight design with sealing membranes



Length x Width x Depth	149 x 80 x 68 mm	149 x 80 x 68 mm
Screw spacing	60 mm	60 mm
Number of screw domes	4	6
Device screws	2	4
Cable entries up to Ø 11 mm	4	4
Duplex cable entries 2 x up to 11 mm	4	4
Conduit entries M25	4	4
Tool-free cable and conduit entries in the connector area up to M25	4	4
Halogen-free	Yes	Yes
	Yes	Yes
Art.-No.	1068-21	1656-21
Inner packaging/shipping	10 / 100	10 / 100

Sealing inserts

The sealing insert ensures air-tight closing of previously-installed one-gang boxes and one-gang junction boxes. It can be used in both flush-mounting and cavity wall installation. Its low installation depth makes use in one-gang junction boxes possible without restricting the wiring.

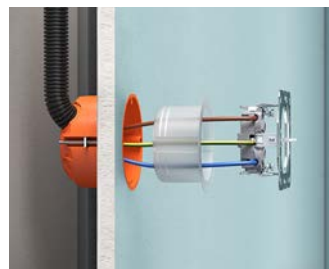
- Ensures later air-tight closing of one-gang boxes and one-gang junction boxes
- Toolless connection wire penetration is possible
- Guarantees later and permanent air-tightness



Application



Later air-tight closing of flush-mounting boxes.



Later air-tight closing of cavity wall boxes.



Pre-punched entry markings permit toolless connection wire penetration up to 2.5 mm².



Press sealing insert and installation accessories into the box and tighten with device screws.

Sealing inserts

Sealing insert for retrofit sealing of existing installation boxes in air-tight building shells. The insert encloses the cables and creates a guaranteed air-tight installation space.



Sealing inserts

- for retrofit sealing of all existing one-gang boxes and one-gang junction boxes
- permanently flexible plastic



Depth	36,5 mm
Diameter	60 mm
Air-tight	Yes
Halogen-free	Yes
Art.-No.	1040-01
Inner packaging/shipping	10 / 100



Sealing plugs 16-40

Sealing plugs with ECON® technology for sealing all standard electrical installation conduits in installation boxes or at cable outlets. The long sealing plug with three sealing lips and in different widths adapts itself to the installation conduit in use and guarantees air-tight and smoke-tight closing, even when the conduits are cut at an angle. From conduit size M25 and up, the membrane surfaces are separated by bridges, which ensure secure cable routing and prevent damage and gaps between cables.

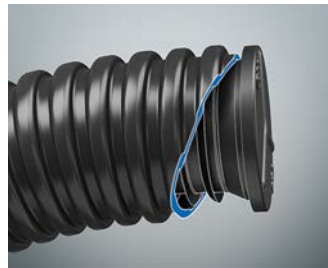
- For empty conduit installations in an air-tight design or in fire protection areas
- Sealing plug with three sealing lips and different widths adapts itself perfectly to the installation conduit and guarantees an air-tight end
- Elastic sealing membrane for guaranteed air-tightness
- Toolless cable entry
- Reinforcing ribs in the membrane ensure air-tightness for the cables
- For all installation conduits M16 - M40, Pg 9 – Pg 36, 3/4" and 5/8"



Processing instructions



The long sealing plug with three sealing lips and different widths adapts itself perfectly to the installation conduit...



...and guarantees an air-tight end even when conduits are cut at an angle.

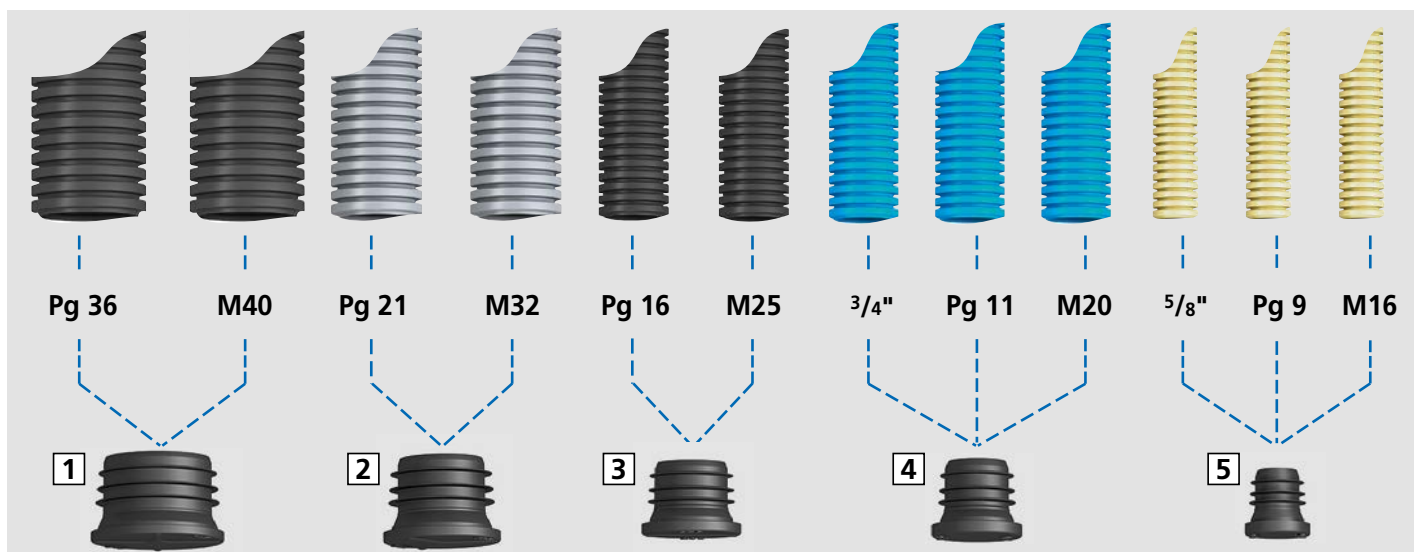


When air-tight installation is necessary, the sealing plugs prevent leakage at the conduit ends.



For installations in the field of fire protection, the sealing plug closes the conduit ends and ensures smoke-tight room separation.

Assignment of conduit sizes and sealing plugs



1 Sealing plug M40 Art. No. 1040-40 | 2 Sealing plug M32 Art. No. 1040-32 | 3 Sealing plug M25 Art. No. 1040-25 | 4 Sealing plug M20 Art. No. 1040-20 | 5 Sealing plug M16 Art. No. 1040-16

Sealing plugs 16-20

- for sealing electrical installation conduits
- ECON® technology for easy cable entry
- permanently flexible plastic



3D animation

Sealing plug	M16	M20
DIN EN conduit Ø	16 mm	20 mm
Halogen-free	Yes	Yes
Art.-No.	1040-16	1040-20
Inner packaging/shipping	25 / 100	25 / 100

Sealing plugs 25-40

- for sealing electrical installation conduits
- ECON® technology for easy cable entry
- permanently flexible plastic




3D animation

Sealing plug	M25	M32	M40
DIN EN conduit Ø	25 mm	32 mm	40 mm
Halogen-free	Yes	Yes	Yes
Art.-No.	1040-25	1040-32	1040-40
Inner packaging/shipping	25 / 100	25 / 50	- / 25

Two-gang junction box

- can also be used as a one-gang junction box (incl. 2 device inserts)
- for use as a junction box cover Art. no. 9062-90 is additionally needed
- use separator wall to separate electrical circuits Art. No. 1656-22 (not illustrated)
- dimensions in accordance with German DIN 49073



Length x Width x Depth	140 x 60 x 42 mm	140 x 60 x 42 mm
Conduit entries M20	12	12
Combination distance	71 mm	71 mm
Halogen-free	Yes	Yes
Device screws	-	4
	Yes	Yes
Art.-No.	1655-02	1656-02
Inner packaging/shipping	10 / 100	10 / 100


One-gang boxes, One-gang junction boxes

for flush-mounting installation

One-gang box

- with nail straps as fitting aid
- nail Ø max. 3 mm
- plaster depth min. 6 mm
- dimensions in accordance with German DIN 49073
- for M20 conduits




Depth	42 mm	42 mm
Screw spacing	60 mm	60 mm
Conduit entries M20	7	7
Halogen-free	Yes	Yes
Device screws	-	2
	Yes	Yes
Art.-No.	1055-62	1056-62
Inner packaging/shipping	- / 100	- / 100

Cavity wall one-gang junction box

- with nail straps as fitting aid
- nail Ø max. 3 mm
- plaster depth min. 6 mm
- dimensions in accordance with German DIN 49073
- for M20 conduits




Depth	63 mm	63 mm
Screw spacing	60 mm	60 mm
Conduit entries M20	13	13
Halogen-free	Yes	Yes
Device screws	-	2
	Yes	Yes
Art.-No.	1555-62	1556-62
Inner packaging/shipping	- / 100	- / 100

One-gang box without support

- for use in facing masonry
- for combinations: use supports Art. No. 1159-01
- dimensions in accordance with German DIN 49073
- for M20 conduits




Depth	42 mm	42 mm
Screw spacing	60 mm	60 mm
Conduit entries M20	7	7
Halogen-free	Yes	Yes
Device screws	-	2
	Yes	Yes
Art.-No.	1050-00	1051-00
Inner packaging/shipping	25 / 500	25 / 500

One-gang junction box without support

- for use in facing masonry
- for combinations: use supports Art. No. 1159-01
- dimensions in accordance with German DIN 49073
- for M20 conduits



Depth	63 mm	63 mm
Screw spacing	60 mm	60 mm
Conduit entries M20	13	13
Halogen-free	Yes	Yes
Device screws	-	2
	Yes	Yes
Art.-No.	1550-00	1551-00
Inner packaging/shipping	25 / 250	25 / 250

One-gang box PERILEX®

- for PERILEX® 16 A inserts
- only for screw fixing
- dimensions in accordance with German DIN 49073
- for M20 conduits




Depth	48 mm
Screw spacing	67 mm
Device screws	2
Conduit entries M20	8
Halogen-free	Yes
Art.-No.	1076-04
Inner packaging/shipping	10 / 100

One-gang box CEE

- for CEE 16 A connectors
- only for screw fixing
- with sealing ring, protection class IP3X
- dimensions in accordance with German DIN 49073
- For M20/M25 conduits and cables



Depth	50 mm
Screw spacing	67 mm
Raised head accessory screws 4 mm	Yes
Conduit entries M20	2
Conduit entries M25	2
Halogen-free	Yes
	Yes
Art.-No.	1075-04
Inner packaging/shipping	- / 100

Junction boxes

for flush-mounting installation

Junction box

- with nail straps as fitting aid
- nail Ø max. 3 mm
- plaster depth min. 6 mm
- without cover and cover screws
- dimensions in accordance with German DIN 49073
- for M20 conduits




Depth	36 mm
Screw spacing	67 mm
Conduit entries M20	8
For 6 terminals 1.5 mm ² or 5 terminals 2.5 mm ²	Yes
Halogen-free	Yes
	Yes
Art.-No.	1172-62
Inner packaging/shipping	- / 100

Junction box

- KLEMMFIX® mounting possible
- according to German DIN VDE 0606, junction box covers may only be removable using tools
- dimensions in accordance with German DIN 49073
- for M20 conduits




Depth	36 mm	36 mm
Screw spacing	67 mm	67 mm
Conduit entries M20	8	8
For 6 terminals 1.5 mm ² or 5 terminals 2.5 mm ²	Yes	Yes
For mounting with Klemmfix® (Art. No. 1159-12)	Yes	Yes
Halogen-free	Yes	Yes
With cover and 2 cover screws	-	Yes
	-	Yes
Art.-No.	1172-02	1172-92
Inner packaging/shipping	25 / 500	25 / 250

Junction box

- with plaster disc, cover and cover screw
- KLEMMFIX® mounting possible
- For M20 conduits and cables up to 5 x 2.5 mm²




Depth	36 mm
Screw spacing	67 mm
Conduit entries M20	8
For 6 terminals 1.5 mm ² or 5 terminals 2.5 mm ²	Yes
without terminal block	Yes
Halogen-free	Yes
	Yes
Art.-No.	1172-09
Inner packaging/shipping	25 / 100

Junction box

- for 8 terminals 1.5 mm², for 6 terminals 2.5 mm² or for 5 terminals 4 mm²
- without cover and cover screws
- For M16/M20 conduits




Depth	56 mm
Screw spacing	67 mm
M16-20 combination conduit entry	14
Halogen-free	Yes
	Yes
Art.-No.	1572-02
Inner packaging/shipping	10 / 250

In-plaster junction box

- for flat multi-lead wiring (NYIF) 1.5 and 2.5 mm²
- terminal block permanently attached
- with plaster disc, cover and cover screw
- Junction box fire-resistant up to 960°C, cover to 850°C in accordance with DIN EN 60670




Depth	16 mm
Screw spacing	80 mm
Terminal block, no. of poles	5
Halogen-free	Yes
	Yes
Art.-No.	1081-05
Inner packaging/shipping	25 / 250

Light connection boxes, Ceiling exits for flush-mounting installation

Wall light connection box

- With integrated cover
- not to be used as a junction box!



Length x Width x Depth	60 x 32 x 30 mm
Break-out openings Ø 20 mm	4
Halogen-free	Yes
	Yes
Art.-No.	1048-00
Inner packaging/shipping	25 / 250

Cover

- for wall light connection boxes
Art. No. 1048-00 and Art. No. 9148-00
- With Ø 3.2 x 15 mm cover screws




Length x Width	75 x 40 mm
Halogen-free	Yes
Art.-No.	1148-90
Inner packaging/shipping	25 / 250

Luminaire connection box

- for casting into concrete ceilings
- 2 parts with snap-in connection
- sealed against concrete
- delivery unit: 1 ceiling light connection box pre-cut for DIN EN conduits 20 mm Ø, 2 reducers/stoppers for use with cable, 1 sealing plug-in cover, 1 light hook (fully-insulated) max. load 100 N (10 kg) in accordance with German VDE
- Marking for cables and DIN EN conduits up to 25 mm



Depth	55 mm
Ceiling exit (CE) Ø	35 mm
Light hook length	55 mm
Conduit entries M20	1
Halogen-free	Yes
	Yes
Art.-No.	1248-55
Inner packaging/shipping	1 / 100

Ceiling exit bush

- for multi-lead wiring (NYIF) 1.5 mm² and 2.5 mm²
- to prevent cable being ripped out



Cable entry	5,5 x 23 mm	5,5 x 23 mm
Halogen-free	Yes	Yes
With light hook and expanding dowel Ø 10 mm	-	Yes
with brass wedge nut, max. load 100 N (10kg) to German VDE norm	-	Yes
Art.-No.	1144-00	1144-05
Inner packaging/shipping	100 / 500	50 / 250

Flush-mounting sound insulation one-gang junction box

Sound insulation box for use in solid construction sound insulation walls with stringent sound insulation requirements. The solid box body with additional sound insulation coating absorbs and reflects the sound, so that interference in adjacent rooms is excluded and the sound insulation remains intact as if no installation box were present.

- Maintains the wall's sound insulation protection
- Installation up to 5-unit combinations
- Opposing installation is also possible
- Variable combination connection piece for conduits up to M25
- Flexible for screw and claw fixing of the accessories
- Can be used with sound protection cover as a junction box



Examples of use



Example of installation using a switch-socket combination.



Use of an opposing sound insulation box.



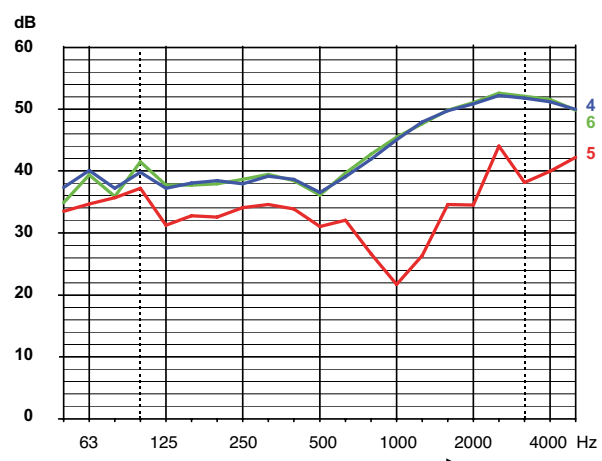
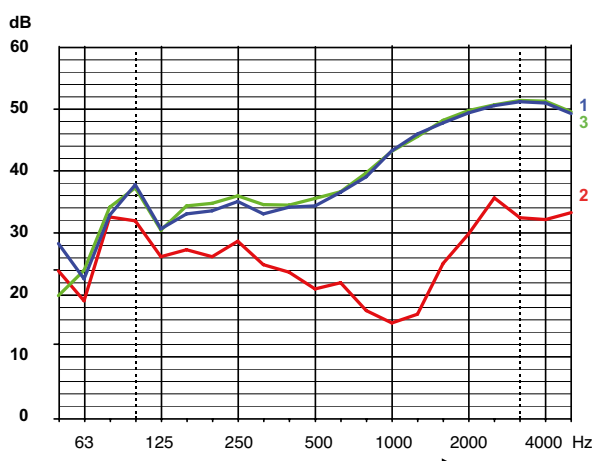
Use of an opposing sound insulation box.



With sound insulation cover it can also be used as junction box.

Comparison of sound insulation

Solid wall 11.5 cm and 17.5 cm with 10 mm plaster on both sides.



1 Wall, without installations, 52 dB | 2 with one-gang junction box 1555-04, 32 dB | 3 with one-gang junction box 1569-01, 52 dB | 4 Wall, without installations, 56 dB | 5 with one-gang junction box 1555-04, 41 dB | 6 with one-gang junction box type 1569-01, 56 dB

One-gang boxes, One-gang junction boxes

for flush-mounting installation

Installation



Cut a Ø 82 mm installation opening using a grinding head (e.g. Art. No. 1088-15).



Make exact cable and conduit entries with the universal opening cutter (Art. No. 1085-80).



For combinations, the one-gang junction boxes are snapped together.



The sound insulation box is simply fixed with plaster.



Combinations at a standard spacing of 71 mm.



Soundproof and fully insulated through wiring is ensured by the support connectors.

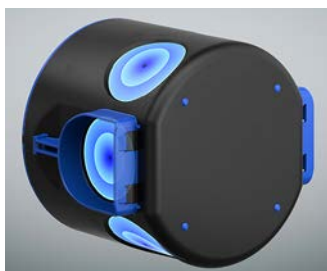


Example of installation using a switch-socket combination.



With the sound insulation cover (Art. No. 1184-69), the box can also be used as junction box.

Processing instructions



The flush-mounting sound insulation box offers 6 possible entries for conduits up to M25 and cables up to Ø 11.5 mm.



The support connector makes it easier to feed conduits up to M25 in the connection area.



In opposing installation, the sound insulation is guaranteed up to a five-way combination.

Allocation table for universal opening cutters



Flush-Mounting installation for sound insulation boxes		Ø setting
NYM cable	3 x 1.5 mm ²	7.5
	4 x 1.5 mm ²	8.5
	5 x 1.5 mm ² ; 3 x 2.5 mm ²	9.5
	7 x 1.5 mm ² ; 5 x 2.5 mm ²	10.5
Low-voltage cables	Integrated high voltage and MSR-Bus cable (N)Y(YSt)Y)M-J	10.5
	3 x 1.5 mm ²	
	EDV cable, S/STP 4 x 2 AWG23/1	7.5
	EDV cable, 100 MB S/STP 4 x 2 x AWG23/1	6.0
	Coaxial cable, double screening	6.0
	Coaxial cable, single screening	5.0
	Bus cable YCYM 2 x 2 x 0.8	5.0
	EDV cable screened, plus outer screening	5.0
	Cable for telephone and signal transmission with screening	4.0
Support connector	9060-98	Connector
Conduits according to DIN EN 60423 flexible (curled)	DIN EN 16 - Ø 16 mm	14.0
	DIN EN 20 - Ø 20 mm	17.0
	DIN EN 25 - Ø 25 mm	21.0

You can create cable entries with the prescribed strain relief easily and to the exact required size with the universal opening cutter (Art No. 1085-80).

Flush-mounting sound insulation one-gang junction box

INNOVATION



3D animation



Product-Data

- with 4 screw domes and 2 expanding claw fields
- One-gang junction box for solid construction sound insulation walls
- For conduits up to M25 and cables up to Ø 11.5 mm
- Combination distance: 71 mm




Depth	60 mm
Screw spacing	60 mm
Number of screw domes	4
Splayed claw fields	2
Tube entries up to M25	6
Cable entries of up to Ø 11.5 mm	6
for sound insulation walls up to	56 dB
Halogen-free	Yes
Art.-No.	1569-01
Inner packaging/shipping	10 / 100

Sound insulation cover

- for sound insulation box
- Sound insulation function in conjunction with sound insulation box



Diameter	92 mm
Halogen-free	Yes
	Yes
Art.-No.	1184-69
Inner packaging/shipping	10 / 100

Screened one-gang junction box



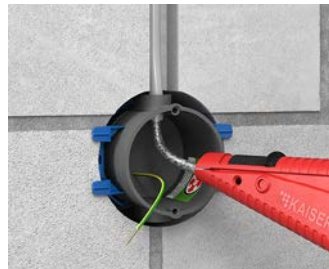
Screened one-gang junction box for flush-mounting installation. The conductive coating suppresses interference with a high alternating field component, whether radiated or received.

- For environmentally-safe electrical installation
- With screening and potential conductivity
- The functional earth of the box must only be connected to the potential equalisation and not to the equipment grounding conductor (PE conductor)

Installation



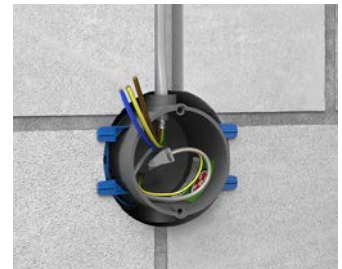
Cut an accurate wall opening (Ø 82 mm) with the diamond grinding head.



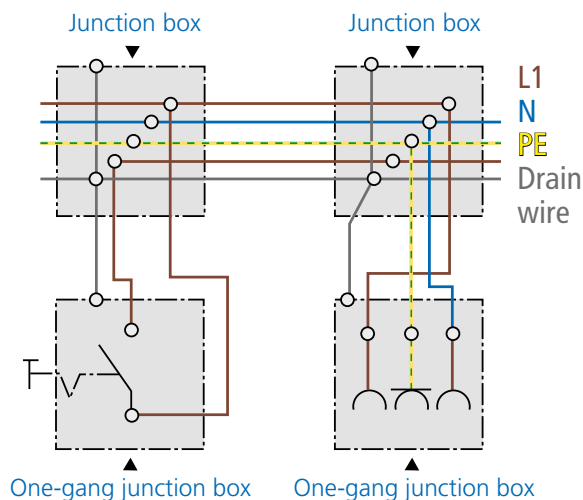
Remove cable sheath and screen with AMZ 2 (Art. No. 1190-02). Fit bare tracer wire with transparent insulating hose.



Connect functional earth of the box to tracer wires of screened cable.



One-gang junction box is ready for installation of a socket for biological design.



Technical processing instructions/standards

- dimensions in accordance with German DIN 49073
- for rooms used for medical purposes, environmentally-friendly construction, etc.
- the conductive coating suppresses interference with a high alternating field component, whether radiated or received
- The functional earth of the box must only be connected to the potential equalisation and not to the equipment grounding conductor (PE conductor)
- Not suitable for use in X-ray or radiation rooms!

Screened one-gang junction box

- with screening and functional earth of the box
- dimensions in accordance with German DIN 49073
- protection class IP 2X



Depth	63 mm
Screw spacing	60 mm
Cable entries 3 x 2.5 mm ² or 5 x 1.5 mm ²	6
Cable entries 3 x 1.5 mm ²	4
Halogen-free	Yes
Art.-No.	1555-88
Inner packaging/shipping	10 / 100

Screened cover

- for making screened one-gang junction boxes
- for one-gang junction boxes Art. No. 9064-88 and Art. No. 1555-88



Diameter	80 mm
Screw spacing	60 mm
Art.-No.	1164-88
Inner packaging/shipping	10 / 100

Screened junction casing

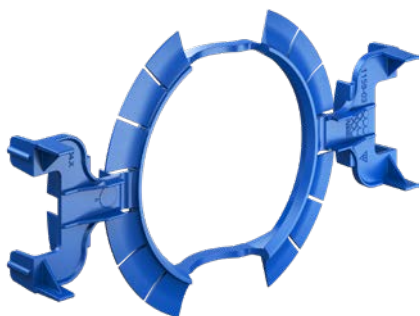
- for cavity wall and flush-mounting installation
- with screened cover
- With Ø 3.2 x 15 mm cover screws
- Protection class IP 3X



Length x Width x Depth	107 x 107 x 53 mm
Cut hole Ø	4 x 35 mm
Break-out openings Ø 20 mm	8
Cable entries for NYM and low-voltage cabling	Yes
For terminals up to	4 mm ²
Art.-No.	9195-88
Inner packaging/shipping	1 / 10

Note

Other installation boxes/housings with screening available on request. Please use our radiation protection box in X-ray areas or areas with ionising radiation.



Plaster-free installation with KLEMMFIX®

The KLEMMFIX® system saves up to 50% installation time compared to the conventional installation of flush-mounting boxes with plaster. KLEMMFIX® fixes the box securely in the wall before plastering and holds it in position. No plaster, quick cement or similar is required. You no longer need to clean your tools after use. The possible health hazard caused by the use of chemicals is avoided. Storage conditions such as frost, heat, shelf life, etc. do not have to be taken into account either.

- For fitting boxes without plaster
- For all common bricks such as lime sand brick, cellular concrete, lightweight concrete, vertically perforated bricks with and without filling
- Secure, clean and time-saving
- Alignment and secure mounting even before plastering
- Can also be used at sub-zero temperatures
- By plastering the wall and allowing the plaster to penetrate into the lamella ring around the box, the box is finally and permanently fixed.
- Not applicable when using clay or thin plaster



Examples of use



Vertically perforated bricks with and without filling, solid bricks.



Light concrete.



Cellular concrete.



Lime sand brick.

Processing instructions



Fastening with lamellar ring and clamping ribs on several levels for secure fixation in all common bricks.



Depth stop to ensure minimum plaster thickness.



Designed for precisely fitting use with the KAISER flush-mounted boxes.



The plaster penetrates up to the lamellar ring and thus ensures that the box is securely and permanently fixed.

Installation



Make the installation opening Ø 82 mm with the diamond grinding crown (Art. No. 1088-02).



Push in box with KLEMMFIX® latched on.



Fit signal cover (Art. No. 1181-60).



The fine marker bristles of the signal cover indicate the exact position of the one-gang box after plastering.

Proof of stability:

Tests carried out show that all boxes remain unchanged. Long-term use in practice confirms this result. Deviations in plastering material and application of the plaster have no effect.

KLEMMFIX® for one-gang and one-gang junction boxes

- for the pre-fixing of flush-mounting boxes without plaster
- in openings made with a diamond grinding crown Ø 82 mm
- can be used with the UP-PLUS one-gang boxes 1055/1056-04 and one-gang junction boxes 1555/1556-04 as well as with the air-tight flush-mounting ECON® 10 1055/1056-21 one-gang boxes and ECON® 15 1555/1556-21 one-gang junction boxes



INNOVATION



3D animation



Product-Data

Cut hole Ø	82 mm
With depth stop	Yes
Art.-No.	1159-03
Inner packaging/shipping	25 / 250

KLEMMFIX® for junction boxes

- for the pre-fixing of flush-mounting boxes without plaster
- in openings made with a diamond grinding crown Ø 82 mm



For junction boxes Ø 70 mm (1172-02, -08, -09, -92)	Yes
Art.-No.	1159-12
Inner packaging/shipping	25 / 250

Wall groove clip

- For laying cables or conduits without plaster
- Quick fixation in wall grooves from 20 to 55 mm
- Reduction of assembly time
- No damage to the cables
- Optional: use of steel nails Ø 3 mm

NEW



Length x Width	60 x 40 mm
Art.-No.	1159-95
Inner packaging/shipping	100 / 1000

Signal cover

- Reusable
- protects interior of box, screwing dome and screw heads when plastering



For installation opening	35 mm	60 mm	70 mm	-
Length x Width	-	-	-	131 x 60 mm
For one-gang boxes and one-gang junction boxes 60 mm Ø	-	Yes	-	-
For junction boxes, PERILEX® boxes and CEE one-gang boxes Ø 70 mm	-	-	Yes	-
For two-gang junction box Art. No. 1656-02/1655-02	-	-	-	Yes
Art.-No.	1181-35	1181-60	1181-70	1181-56
Inner packaging/shipping	- / 50	50 / 1000	25 / 250	- / 50

Signal cover

- Reusable
- protects interior of box, screwing dome and screw heads when plastering



Length x Width	80 x 80 mm	100 x 100 mm	60 x 32 mm
For wall light connection boxes Art. No. 1048-00	-	-	Yes
Art.-No.	1181-94	1181-95	1181-48
Inner packaging/shipping	- / 50	- / 50	- / 100

Distance supports

- For combination distance 91 mm, e.g. for antenna sockets, telephone boxes or EDP connection boxes with sockets which are not touch-safe.



Art.-No.	1159-34
Inner packaging/shipping	25 / 100

Tunnel connector

- For fully-insulated floor through-wiring of one-gang junction boxes Art. Nos. 1555/56-04, 1555/56-21, 1068-02, 1068-21 and 1656-21




Art.-No.	1159-36
Inner packaging/shipping	10 / -

Plaster compensation rings

- to compensate for deep-seated boxes
- To maintain IP protection class
- with 2 screwed-in device screws
- with 2 ring attachment screws




Height	12 mm	24 mm	12 mm	24 mm
Screw spacing	60 mm	60 mm	67 mm	67 mm
For all one-gang boxes and one-gang junction boxes Ø	60 mm	60 mm	-	-
For junction boxes Ø	-	-	70 mm	70 mm
	Yes	Yes	Yes	Yes
Art.-No.	1155-61	1155-62	1155-71	1155-72
Inner packaging/shipping	25 / 250	25 / 250	10 / 100	10 / 100

Universal VDE cover

- for all one-gang, one-gang junction and junction boxes
- with central exit for light hook
- flat cover edge
- surface roughened



Diameter	92 mm	92 mm
Screw spacing	60 / 67 mm	60 / 67 mm
Fireproof	850 °C	850 °C
Halogen-free	-	Yes
	Yes	Yes
Art.-No.	1184-90	1184-77
Inner packaging/shipping	25 / 250	25 / 250

Universal waterproof cover

- central entry with stoppers
- for countersunk screws Ø 4 mm



Diameter	90 mm	90 mm
Screw spacing	67 mm	60 mm
Fireproof	850 °C	850 °C
Halogen-free	Yes	Yes
Art.-No.	1174-99	1174-98
Inner packaging/shipping	10 / -	10 / -

Spring cover

- With permanent elastic spring



Diameter	72 mm	85 mm	95 mm
for boxes Ø	60 mm	70 mm	80 mm
Art.-No.	1159-25	1174-25	1184-25
Inner packaging/shipping	50 / 500	50 / 500	25 / 250

Screw box

- suitable for fixing accessories and covers
- self-tapping Ø 3.2 mm
- corrosion-resistant in accordance with German DIN VDE standard
- RoHS-compliant



Length	15, 25, 40 mm
Filled with device screws +/-, 100 of each	Yes
Art.-No.	2472-91
Inner packaging/shipping	- / 8

Device screws +/-

- self-tapping Ø 3.2 mm
- Countersunk head with PZ1/S combination drive
- surface double-treated
- corrosion-resistant in accordance with German DIN VDE standard



Length	15 mm	20 mm	25 mm	40 mm
Art.-No.	2472-15	2472-20	2472-25	2472-40
Inner packaging/shipping	100 / 10000	100 / 10000	100 / 10000	100 / 10000

Sealing screws

- in pure brass
- self-tapping Ø 3.2 mm
- with cross-hole in the screw head through which sealing wire can be pulled



Length	15 mm	40 mm
Art.-No.	2444-15	2444-40
Inner packaging/shipping	100 / 1000	100 / 1000

Junction casings

Flush-mounting junction casings in all sizes and for almost any kind of jobs. This programme features practical housing sizes as well as robust housing design perfect for building sites.

- As central junction casings for star-shaped cable laying
- Easy to rewire when changing the way rooms are used
- With separator walls to separate electrical circuits
- For installation of DIN terminal strips, TS 35 standard rails for terminal blocks, LSA+ terminal strips and much more
- End cover with screw fastening for VDE-compliant installation



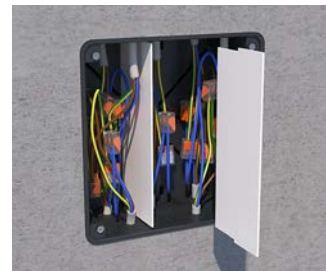
Processing instructions



Space for installation of TS 35 standard rails for the installation of terminal blocks, terminal installation devices etc.



Space for installation of LSA+ terminals for distribution of telecommunication equipment.



Several electrical circuits can be safely separated in one casing using separator walls that can be inserted.




After breaking out a side wall, the casings (Art. No. 1092-90) can be clipped together and expanded to twice the size.

Junction casing 80

- for max. 2 circuits using separator wall
- suitable for installation of DIN terminal strips, TS 35 standard rails for terminal strips, terminal blocks up to 16 mm², etc.
- including cover



Length x Width x Depth	87 x 87 x 60 mm	87 x 87 x 60 mm
Conduit entries M20	8	8
Cable entries from top	16	16
For terminals up to	4 mm ²	4 mm ²
Halogen-free	-	Yes
	Yes	-
Art.-No.	1094-91	1094-01
Inner packaging/shipping	- / 100	- / 100


Junction casings

for flush-mounting installation

Junction casings 100 / 150

- for max. 2 circuits using separator wall
- suitable for installation of DIN terminal strips, TS 35 standard rails for terminal strips, terminal blocks up to 16 mm², etc.
- including cover




Length x Width x Depth	107 x 107 x 57 mm	107 x 107 x 57 mm	159 x 159 x 75 mm	159 x 159 x 75 mm
M16 conduit entries	4	4	-	-
Conduit entries M20	12	12	16	16
Conduit entries M25	4	4	8	8
Cable entries	12	12	12	12
For terminals up to	6 mm ²	6 mm ²	16 mm ²	16 mm ²
Halogen-free	-	Yes	-	Yes
M32 conduit entries	-	-	4	4
	Yes	-	Yes	-
Art.-No.	1095-91	1095-01	1096-91	1096-01
Inner packaging/shipping	- / 100	- / 100	- / 30	- / 30

Junction casing

- suitable for installation of DIN terminal strips, TS 35 standard rails for terminal strips, terminal blocks up to 16 mm², etc.
- including cover



Length x Width x Depth	240 x 142 x 87 mm	238 x 208 x 68 mm
Conduit entries M20	24	20
Conduit entries M25	12	8
M32 conduit entries	6	4
Cable entries	12	-
For terminals up to	16 mm ²	16 mm ²
Halogen-free	Yes	Yes
Suitable for standard equipment with 70 mm installation height	Yes	-
Casings can be combined once with each other, dimensions are then	240 x 284 x 87 mm	-
For max. 4 electrical circuits using separator walls	Yes	-
Maximum of 3 electrical circuits with separator walls	-	Yes
	Yes	Yes
Art.-No.	1092-90	1097-92
Inner packaging/shipping	- / 10	- / 10

Potential equalisation casing 10² and 16²

- for bathrooms or similar
- including equipotential bonding busbar, corrosion protected
- including cover



Length x Width x Depth	107 x 107 x 57 mm	238 x 208 x 68 mm
Circular conductor 6–16 ² , also uncut	1	-
Cables 1.5–10 ² (for bathrooms or similar)	6	-
Cables up to 16 ² , single and stranded wire	-	7
Circular conductors Ø 8–10 mm	-	1
Flat strip up to 30 mm wide	-	1
	-	Yes
Art.-No.	1095-73	1097-75
Inner packaging/shipping	- / 10	- / 1

Note

Other earthing products can be found at our website.

Replacement cover

- flat cover edge
- surface roughened



For casing size - flush-mounting boxes	Fire-proof	For casing size - concrete construction boxes	For casing size - cavity wall boxes	Art.-No.	Inner packaging/shipping
87 x 87 mm	650 °C	-	-	1094-13	10 / 450
107 x 107 mm	650 °C	-	-	1095-13	10 / 500
159 x 159 mm	650 °C	-	-	1096-13	10 / 200
107 x 107 mm	850 °C	128 x 128 mm	105 x 105 mm	1095-93	10 / 500
159 x 159 mm	850 °C	180 x 180 mm	165 x 165 mm	1096-93	10 / 200
240 x 142 mm	850 °C	-	238 x 142 mm	1092-93	5 / -
238 x 208 mm	850 °C	250 x 220 mm	235 x 205 mm	1097-93	5 / 100
240 x 284 mm	850 °C	-	-	1092-95	5 / -

Separator walls

- for junction casings
- can be retrofitted to separate electrical circuits



for casing size	Fireproof	Halogen-free	Art.-No.	Inner packaging/shipping
87 x 87 mm	650 °C	Yes	1094-20	10 / -
107 x 107 mm	650 °C	Yes	1095-20	10 / -
159 x 159 mm	650 °C	Yes	1096-20	10 / -
238 x 208 mm	650 °C	Yes	1097-22	10 / -
240 x 142 mm	650 °C	Yes	1092-20	10 / -



Universal installation housings

Universal installation housings for a wide range of device installations always ensure optimum installation space for all kinds of devices. The intelligent housing design of all six housings ensures stability and secure hold in the wall.

- For displays, LED lights and much more
- For installing almost all shapes and sizes
- Mineral fibreboard allows individual installation opening



Examples of use



Installation



Make an appropriate wall opening, feed the cables and conduits into the housing and fasten it (using plaster) in the wall.



You can create the installation opening before or after inserting the housing. The equipment is attached by simply clamping it in or screwing it into the mineral fibreboard.



Use only screws that go into but not through the mineral fibreboard when attaching the device! (e.g. SPAX countersunk head screw 3.5 x 15 mm)!

Note

Observe the maximum stroke length of the saw blade when sawing the installation opening.

Universal installation housing with mineral fibreboard

- two-part, consisting of a housing and a mineral fibreboard cover
- all-round groove indicates the maximum opening size



Length x Width x Depth	87 x 87 x 75 mm	107 x 107 x 72 mm	159 x 159 x 90 mm
Conduit entries M20	10	14	20
Cable entries	16	12	-
Universal opening size up to max.	57 x 57 mm	77 x 77 mm	129 x 129 mm
For devices with an installation depth of max.	60 mm	60 mm	75 mm
M16 conduit entries	-	4	-
Conduit entries M25	-	4	10
M32 conduit entries	-	-	4
Art.-No.	1094-22	1095-22	1096-22
Inner packaging/shipping	- / 10	- / 10	- / 10

Universal installation housing with mineral fibreboard

- two-part, consisting of a housing and a mineral fibreboard cover
- all-round groove indicates the maximum opening size



Length x Width x Depth	240 x 142 x 102 mm	240 x 280 x 102 mm	238 x 208 x 83 mm
Conduit entries M20	24	36	20
Conduit entries M25	12	16	8
M32 conduit entries	6	10	4
Cable entries	16	12	-
Universal opening size up to max.	199 x 102 mm	189 x 240 mm	198 x 168 mm
For devices with an installation depth of max.	90 mm	90 mm	70 mm
Art.-No.	1092-27	1092-28	1097-28
Inner packaging/shipping	- / 10	- / 10	- / 10

My housing. Made just for me!

You manufacture modern operating elements for building technology, or sensitive control panels for industrial equipment? For concrete, masonry or cavity walls?

We have the housing solution that you need!

- A high-quality, flexible, plastic housing.
- Developed on the basis of our many years of experience in plastics technology.
- Whatever dimensions your product has, we will create the best possible shape!
- Look for yourself – it couldn't be easier!



Configure the housing you need
the configurator on our website makes it possible: www.myhousing.eu



Interior Insulation box

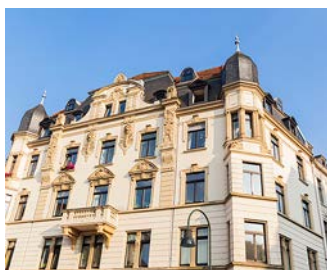


One-gang junction box for electrical installations in internal insulation systems. For permanently secure and heat-bridge-free installation of switches, sockets and other devices in internally insulated exterior walls. For optimal room climate with proven protection from moisture damage. For use in many internal insulation systems.

- For installation in insulated interior walls
- Guarantees installation without heat bridges
- Moisture regulating and insulating
- Prevention of moisture induced structural damage
- Suitable for use in many insulation systems
- For insulation thicknesses 30 to 100 mm
- Installation on masonry without plaster



Examples of use



Historically significant facades in exposed masonry or stucco facades.



Facade of a listed half-timbered house.

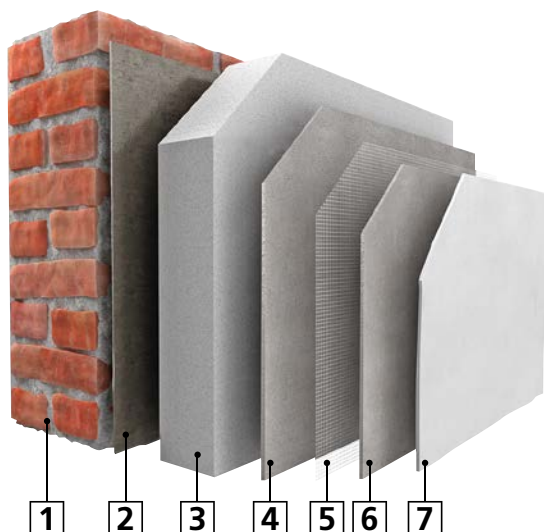


Suitable for e.g. diffusion-open insulation systems made of mineral insulation materials.



Can be used in existing masonry with different insulation thicknesses.

Specially developed for expert installation in diffusion-open internal insulation systems.



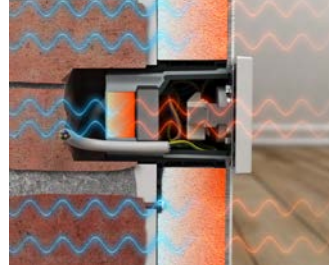
1 Masonry wall | 2 Adhesive | 3 Insulating board | 4 Reinforcement plaster | 5 Reinforcement fabric | 6 Reinforcement plaster | 7 Finish coat of plaster, decorative plaster

Technical information



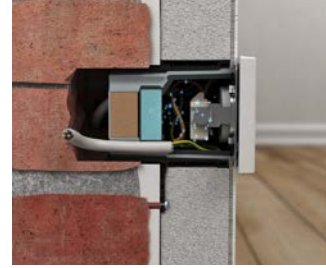
Airtightness:

- Maintains the level of airtightness
- No air through-flow possible
- Air flow behind the insulation system is prevented
- No convection
- No entry of mould spores



Heat insulation:

- No heat bridge
- Room heat enters the box not the cold wall
- Insulation component replaces function of the insulation system



Moisture regulation:

- Room-side moisture (caused by bad ventilation, many people in the room) is stored
- Moisture is dispersed in a targeted way
- No corrosion on the accessory terminals



Heat conductivity:

- Highly heat-conductive plastic for the inner box
- Room heat is transferred to the box
- The raised surface temperature prevents the formation of condensate

Proof of functionality

A comprehensive components test carried out by the TU Dresden – Institut für Bauklimatik – confirms demonstrably the functionality of the KAISER internal insulation box. The study of internal insulation systems with $\lambda > 0.03/\text{mK}$ in insulation thicknesses from 30 to 100 mm confirms that by using the new internal insulation box, hygrothermic damage can be excluded. The certificate can be downloaded as a pdf file from our website.



Processing instructions



Installation on masonry without using plaster or mortar.



Dimension details on the adapter allow easy adaptation to the insulation thickness.



The box allows 4 cables up to Ø 11.5 mm to be entered.



Cut exact and air-tight cable entry using a drill.

Creation of combinations



Combination of boxes by simply snapping the adapters into place.



Combination distance 71 mm by removing the premarked edge.



Fully insulated through-wiring via support connector (Art. No. 9060-88).



Example of installation of a double socket

Assignment table for making entry openings



HSS drill		Ø setting
NYM cable	3 x 1.5 mm ²	8.0
	5 x 1.5 mm ²	9.5
	3 x 2.5 mm ²	9.5



Universal opening cutter		Ø setting
Support connector	9060-88	14
Conduits	M16	17

Installation



Determine insulation thickness, adjust fastening lugs of the Adapter.



For insulation thicknesses < 100mm, cut wall opening (Ø 82mm).



Define location on the wall and mark it.



Insert cable on rear side of adapter, fix adapter to the wall.



Insert cables into box, screw box to Adapter.



Strip cable, insert signal cover.



Apply the internal insulation around the box.



Remove signal cover and install required accessory.

Interior Insulation box

- One-gang junction box for insulated interior walls
- including attachment adapter
- rear cable entries
- circumferential airtight sealing lip
- Can be combined with each other



3D animation



Product-Data

Depth	90 mm
Adapter dimensions (LxWxD)	75 x 81 x 100 mm
for insulation thicknesses	30 - 100 mm
Device screws	2
Screw spacing	60 mm
Cable entries of up to Ø 11.5 mm	4
Support connectors for each package	3
Halogen-free	Yes
Art.-No.	1159-90
Inner packaging/shipping	5 / 50

Fixing adapter internal insulation box

- For secure fixing of the internal insulation box
- For installation on masonry
- For standard combinations 71 mm



Adapter dimensions (LxWxD)	75 x 81 x 100 mm
for insulation thicknesses	30 - 100 mm
Halogen-free	Yes
Art.-No.	1159-91
Inner packaging/shipping	5 / 50

Support connector

- For fully insulated through-wiring in combinations
- For Art. Nos. 1159-90, 1555-51, 9069-03, 9069-04 and 9074-03



Art.-No.	9060-88
Inner packaging/shipping	25 / 100



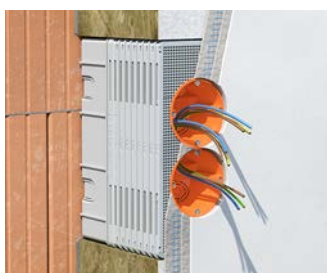
Universal equipment carrier

Universal equipment carrier for securely attaching electrical installations in or to heat-insulating external facades. Stable attachment of external lights, sockets, motion detectors, external temperature sensors, radio receivers, anemometers, cameras, letter boxes and much more.

- Secure attachment of various equipment to or in insulated external facades.
- Prevents heat bridges
- Quick installation with snap-in connections
- For insulation thicknesses of 60 to 360 mm

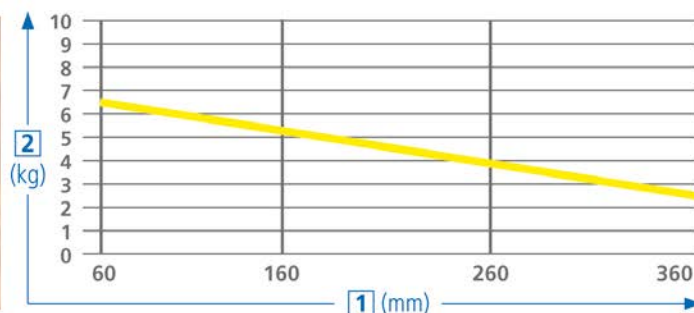
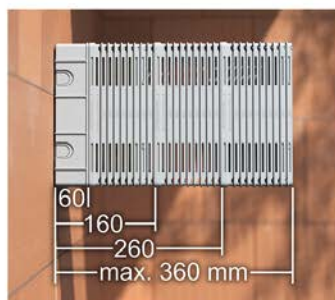
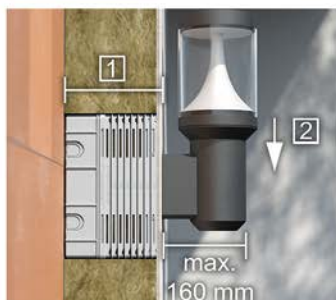


Examples of use



Processing instructions

Weight-bearing load dependent on the insulation thickness. The universal equipment carrier is only suitable for vertical installation (upright)!



1 External insulation - insulation thickness | 2 Permissible load

Heat bridge calculation

Temp. in °C

not insulated

insulated

+ 20 °C - 10 °C

When the equipment carrier is correctly installed, hardly any heat losses are measured.

Calculation and source:
PASSIV HAUS INSTITUT
Dr. W. Feist

[mm]	insulated [m ²]	not insulated [m ²]
160	0.027	0.300
360	0.039	0.520

Installation



Align the housing base vertically on the wall and screw tight using suitable fixing material.



If necessary, adjust the extension element to suit the insulation thickness.



Fit the rock wool provided (supplied)



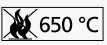

Fit the mounting plate (closing clip underneath) and close.

Universal equipment carrier

- for use with externally-insulated walls
- for secure fixing of lights, intercoms, motion detectors etc.
- can be extended in steps of 100 mm each (max. 360 mm) using extension elements Art. No. 1159-27
- can be reduced in 10 mm steps
- With pre-cut rock wool parts through which the equipment carrier can be fed



Product-Data

Length x Width x Height	220 x 100 x 60-160 mm
Combination conduit entries M20/25	6
Halogen-free	Yes
 650 °C / 	Yes / Yes
Art.-No.	1159-24
Inner packaging/shipping	- / 5

Extension element

- to extend the Universal equipment carrier by 100 mm simply by latching on
- can be reduced in 10 mm steps by cutting
- with rock wool pre-cut parts to fill the extension panel



Length x Width x Depth	220 x 100 x 100 mm
Halogen-free	Yes
Art.-No.	1159-27
Inner packaging/shipping	- / 5



Universal equipment carrier with combination insert

Universal equipment carrier with combination insert for the installation of entryphones and installation accessories on the insulated external facade. The perfect basis for intercoms, sockets, switches and much more, and also for two-unit and three-unit combinations.

- Guarantees installation without heat bridges
- For entryphones and variable accessory installation combinations of 1 to 3 units
- For future expansion without damaging the external facade
- For insulation thicknesses up to 360 mm



Examples of use



The product is suitable for single, double or triple combinations...



...and also permits future expansion without damage to the facade.



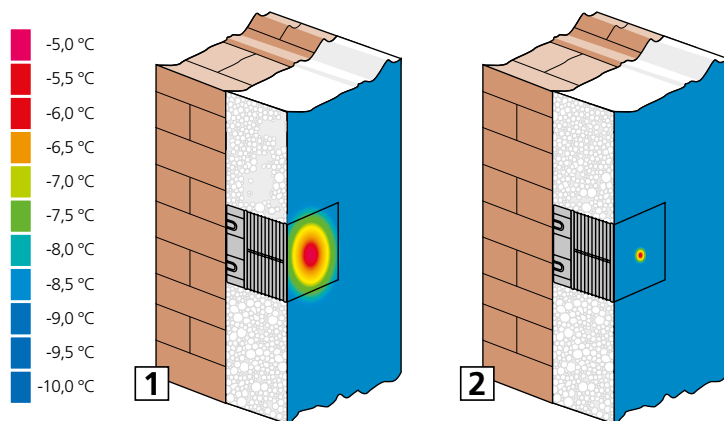
The equipment carrier with combination insert can be...



...mounted horizontally or vertically.

Heat bridge calculation

If installed correctly, heat losses are hardly measurable. Calculation and source: inside: +20°C, outside: -10°C | PASSIV HAUS INSTITUT Dr. W. Feist



1 not insulated | 2 insulated

Installation



Define location on the wall and mark it.



Screw the housing base to the wall.



If necessary, adjust the extension element to suit the insulation thickness.



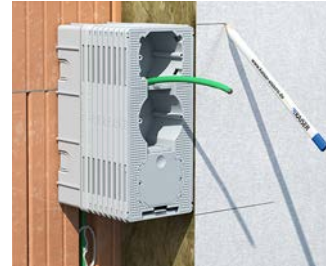
Attach the extension element and snap it into place.



Fit the rock wool insulation (supplied).



Position the combination insert (mounting clip at bottom) and snap into place.



The installation can now be fitted and installed.



After applying the plaster, attach the desired accessory.

Universal equipment carrier with combination insert

- for use with externally-insulated walls
- For secure mounting of intercoms, switches, sockets and many more
- Can be extended in steps of 100 mm using extension element
- With pre-cut rock wool parts through which the equipment carrier can be fed



3D animation



Product-Data

Length x Width x Depth	220 x 100 x 160 mm
DIN EN conduit Ø	max. 25 mm
Cable entries	max. Ø 15 mm
Insulation thickness	60 - 160 mm
Halogen-free	Yes
Art.-No.	1159-26
Inner packaging/shipping	- / 5

Extension element

- to extend the Universal equipment carrier by 100 mm simply by latching on
- can be reduced in 10 mm steps
- with rock wool pre-cut parts to fill the extension panel



Length x Width x Depth	220 x 100 x 100 mm
Halogen-free	Yes
Art.-No.	1159-27
Inner packaging/shipping	- / 5



System equipment carrier

The system equipment carrier is designed to fit perfectly into the external insulation and, in this way, reliably prevents heat bridges. Fast, easy fixing using the screw dowels included in the scope of delivery permanently anchors the equipment carrier securely to many surfaces. Ideal for stable fixing of external lamps, sockets, door intercom devices, and many more. In doing so, high weight-bearing loads are not a problem.

- Extra-fast, easy installation
- Two product types allow a wide range of applications
- Heat bridges are efficiently prevented
- Adaptable to insulation thickness in 10 mm steps – no cutting necessary
- Modular design for insulation thicknesses from 160 to 310 mm



Application examples



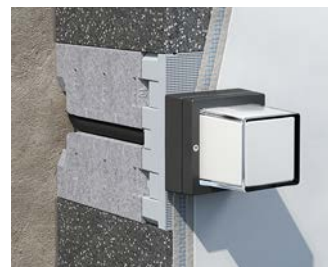
The system equipment carrier with combination is suitable for 1-way...



...2-way and 3-way combinations. Unused one-gang boxes can be used for future extensions without damaging the facade.

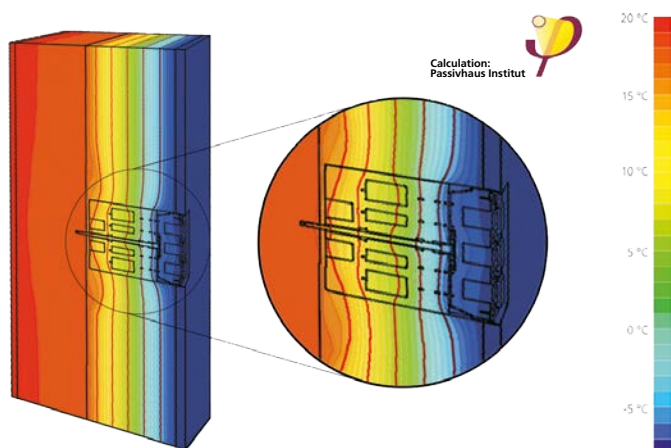


The system equipment carrier as a equipment carrier can be used as a cable exit...



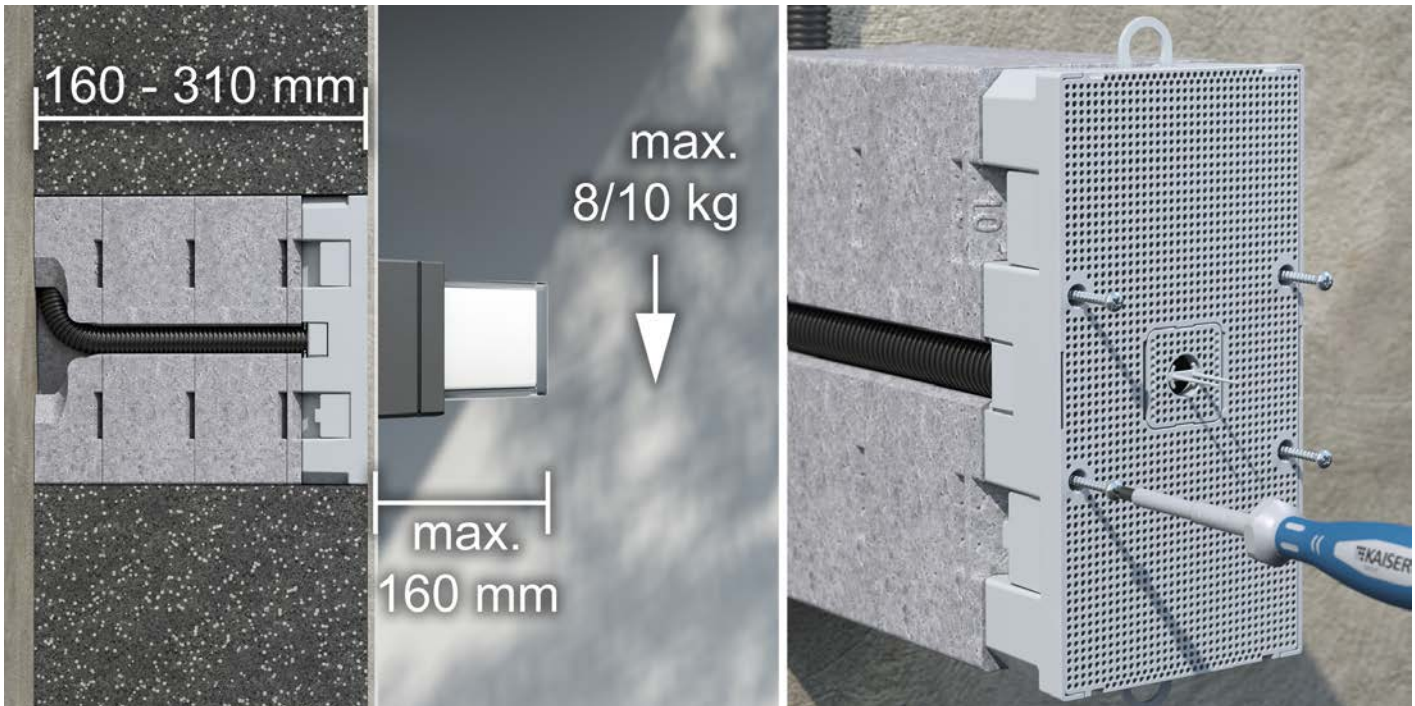
...for mounting luminaires and other accessories.

Heat bridge calculation



A heat bridge calculation carried out by the Passivhaus Institut in Darmstadt shows that the system equipment carrier has a point-specific heat bridge loss coefficient of $x_{WB} < 0,01 \text{ W/K}$ and meets the requirements of a heat bridge-free facade.

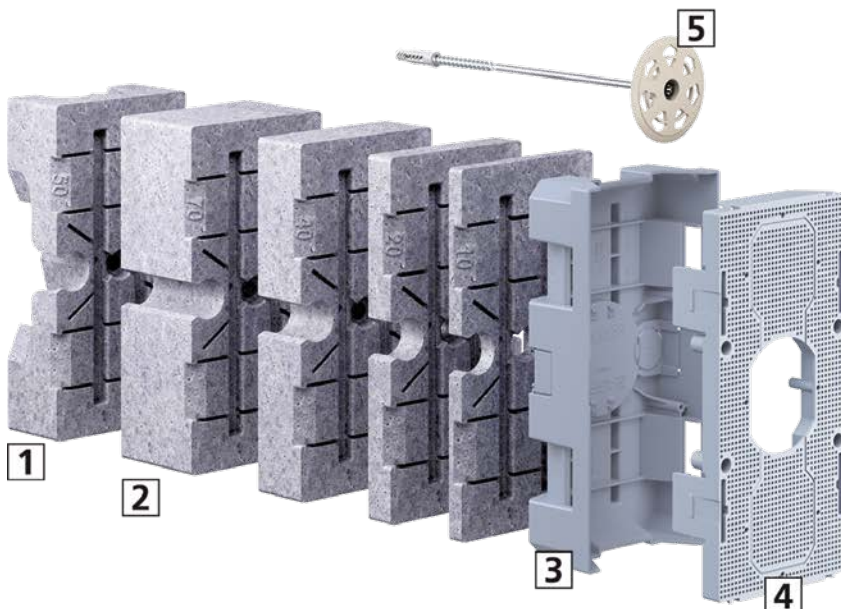
Weight-bearing loads



1 Weight-bearing loads – independently of the insulation thickness: For an overhang of 160 mm and insulation thicknesses of 160 - 310 mm; 8 kg without additional screwing of the front plate; 10 kg with additional screwing of the front plate. The system equipment carrier must be fitted vertically. The hole for the dowel must be drilled to make an exact fit. **2** Increasing the weight-bearing loads: To fix heavier loads, we recommend additional securing of the mounting plate by means of four Ø 3.5 x 25 screws

Versatile in use

The choice of two front parts and the modular design make the system equipment carrier a product that is extremely versatile in use. Cutting to size is not necessary because of adaptation to the insulation in 10 mm steps. Fixing by means of a single screw dowel reduces fitting time to a minimum, and at the same time, it ensures secure anchoring to the base, e.g. masonry, concrete or wood materials.



1 Basic element | **2** Intermediate elements | **3** Housing base | **4** Front plate | **5** Screw-in wall-plug

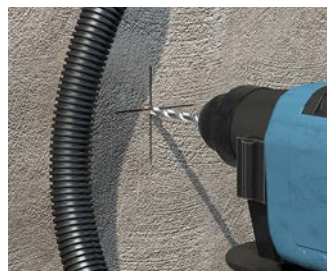
Installation



Masonry with conduit exit.



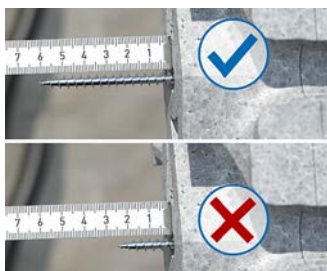
Adapt equipment carrier to insulation thickness by selecting suitable components.



Cut Ø 8 mm drill hole at least 50 mm deep.



Remove the side lugs from the screw dowel. Note the different lengths!



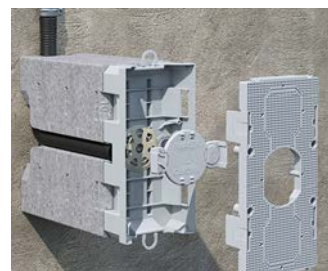
The dowel screw must protrude from the basic element by at least 40 mm.



Hold the equipment carrier against the wall, align it, and fix it using the dowel.



Press the conduit into the sideways guide and cut it to length.



Latch on the required front part. Fit the Styrofoam cap and the dowel cover.

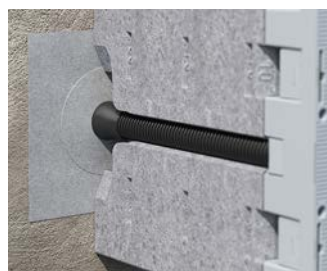
Tips and tricks



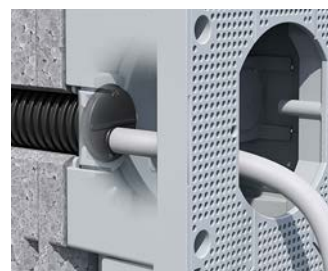
For an additional conduit, remove the bridges next to the Neopor® parts...



... and the perforated entry broken out in the case of the dowel cover

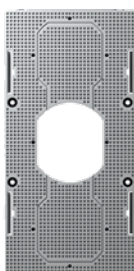


For air-tight installation, fit a suitable air-tight sleeve to the conduit exit side...

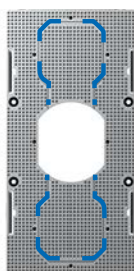


...and fit a sealing plug to the conduit.

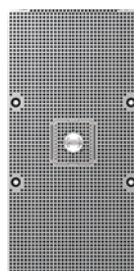
Combinations with front panels



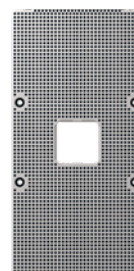
Multi-device front panel (Art. No. 9966.31 and 9966.32); opening Ø 1 x 68 mm.



2-way and 3-way combinations can be made by breaking out the covers.



Delivery status (Art. No. 9966.21 and 9966.22), universal mounting plate.



Universal mounting plate with broken-out exit for luminaires.

System equipment carrier 160 – 240 mm



- Adaptation to insulation thickness possible in 10 mm steps
- Including 2 screw dowels
- Material: Polyethylene
- Insulation material: Neopor
- Processing temperature: - 5 °C / + 60 °C



3D animation



Product-Data

Length x Width x Height	220 x 110 x 160-240 mm	220 x 110 x 160-240 mm
Combination conduit entries M20/25	2	2
Combination	1x1 / 2x1 / 3x1	Luminaire outlet / mounting plate
Screw-in wall-plug	1 x 200 mm, 1 x 240 mm	1 x 200 mm, 1 x 240 mm
Halogen-free	Yes	Yes
CE /  850 °C	Yes	Yes / Yes
	-	Yes
Art.-No.	9966.31	9966.21
Inner packaging/shipping	- / 5	- / 5

System equipment carrier 240 – 310 mm



- Adaptation to insulation thickness possible in 10 mm steps
- Including 2 screw dowels
- Material: Polyethylene
- Insulation material: Neopor
- Processing temperature: - 5 °C / + 60 °C



3D animation



Product-Data

Length x Width x Height	220 x 110 x 240-310 mm	220 x 110 x 240-310 mm
Combination conduit entries M20/25	2	2
Combination	1x1 / 2x1 / 3x1	Luminaire outlet / mounting plate
Screw-in wall-plug	1 x 280 mm, 1 x 320 mm	1 x 280 mm, 1 x 320 mm
Halogen-free	Yes	Yes
CE /  850 °C	Yes	Yes / Yes
	-	Yes
Art.-No.	9966.32	9966.22
Inner packaging/shipping	- / 5	- / 5



Awarded with the
BAKA-Award 2019

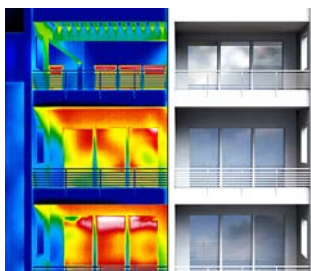
Installation housing ThermoX® Iso +

Installation housing for the secure and heat-bridge-free installation of rigid and swivelling built-in LED luminaires or other installation accessories in insulated ceilings. The housing protects the surrounding insulation material against the high operating temperatures of the LED luminaire and protects the LED luminaire itself against dirt. The integrated insulation element reliably prevents heat bridges.

- For the installation of luminaires and installation accessories in insulated ceilings
- Suitable for all standard insulation materials
- Thermically-protected installation space
- The integrated insulation element prevents heat bridges
- For insulation thicknesses from 100 mm to 160 mm (170 mm to 350 mm with extension element)
- Adjustment to the insulation thickness in 10 mm steps.
- Installation diameter up to \varnothing 86 mm



Examples of use



Buildings are constructed heat-bridge-free using the ETICS composite thermal insulation systems, e.g. ...



...insulated external ceilings of built-over terraces with lighting.

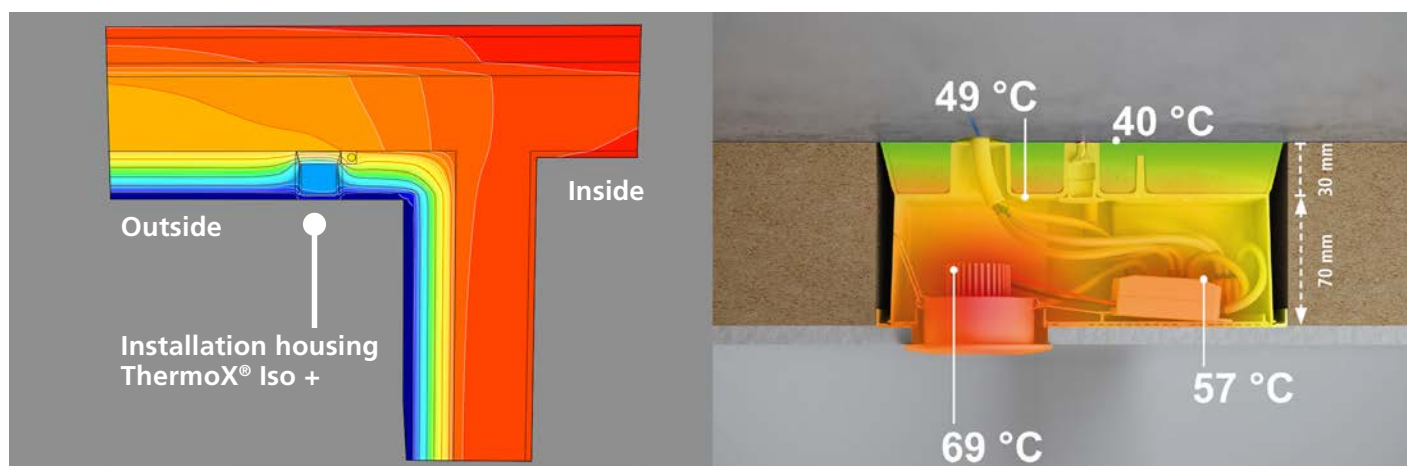


...insulated, recessed entrance areas with lighting.



...insulated facades with outdoor lighting over the entrance and garage door.

Heat-bridge calculation / temperature profile

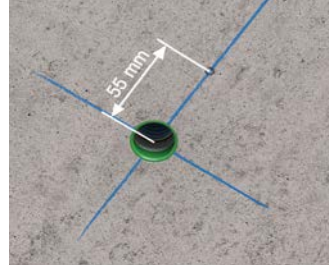


A heat bridge calculation by the Passivhaus Institut, Darmstadt, shows that heat bridges can be reliably prevented by the installation housing for the external insulation. The installation housing is also suitable for use in passive houses.

Installation



Adapt installation housing to the measured insulation thickness.



Mark fixing point 55 mm from the luminaire centre point.



Alternative: Position the installation housing with the alignment markings for the luminaire and mark the drill hole.



Break out the conduit entry or cut an exact cable entry for air-tight installation, e.g. by using the KAISER universal opening cutter (Art. No. 1085-80).



Screw installation housing to the ceiling and fit the screw covering.



Insert the conduit or cable into the installation housing; fit sealing plug to the conduit.



Ceiling exit ø 68 mm for knocking in, ceiling outlet up to ø 86 mm for cutting out.



Applying insulation and plaster. Fitting the LED installation spotlight with plenty of space for the ballast device.

Processing instructions



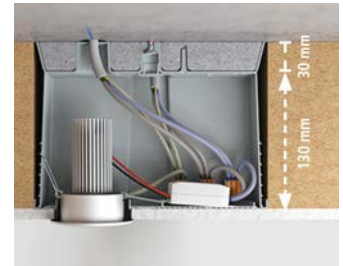
Universal front part for installation diameter of ø 68 mm for knocking in or universal up to ø 86 mm for cutting out (turn by 180°).



Installation depth 70 mm (insulation thickness 100 mm).



Installation depth 100 mm (insulation thickness 130 mm).



Installation depth 130 mm (insulation thickness 160 mm).

Installation housing ThermoX® Iso +

- with external insulation of ceilings
- for insulation thicknesses of 100 mm and above
- Adjustment to the insulation thickness in 10 mm steps.
- for LED luminaires up to 8 Watt
- max. luminaire installation depth 70 mm to 130 mm (insulation thickness less 30 mm)
- Front panel with ceiling exit (CE) Ø 68 mm or universal up to Ø 86 mm
- Space for ballast devices 120 mm x 30 mm x 28 mm (installation diameter 68 mm, installation depth 70 mm)



3D animation



Product-Data

Length x Width x Height	220 x 110 x 160 mm
Insulation thickness	100 - 160 mm
Ceiling exit (CE) Ø	68 - 86 mm
max. lamp output	8 Watt
max. installation depth for the LED luminaires	70 - 130 mm
Cable or conduit entries up to max. ø 25 mm	5
Halogen-free	Yes
Art.-No.	1159-70
Inner packaging/shipping	- / 6

Extension element

- for installation housing for external insulation
- for insulation thicknesses 170 - 350 mm
- Adjustment to the insulation thickness in 10 mm steps.

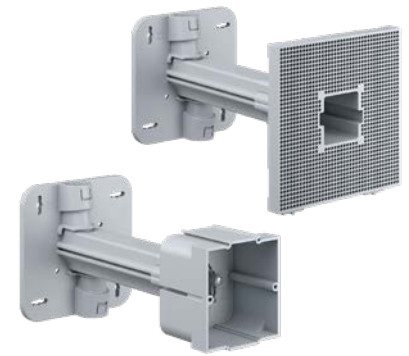


Length x Width x Height	220 x 110 x 190 mm
Insulation thickness in combination with Art. No. 1159-70	170 - 350 mm
Halogen-free	Yes
Art.-No.	1159-71
Inner packaging/shipping	- / 6

Telescope equipment carrier and switch box

For the safe installation of luminaires, motion detectors and many other accessories in and on insulated facades. Optimised for the latest insulation thicknesses, the telescopic products permit a wide range of applications in external faces with insulation thicknesses from 80 to 200 mm. The two conduit entries on the basic carrier guarantee secure conduit connection. The cable routing which is integrated in the carrier arm ensures a fast, easy cable pull-in.

- Stable fit to walls and ceilings
- For insulation thicknesses from 80 to 200 mm
- Equipment carriers for accessories up to max. 5 kg
- One-gang boxes can be combined with a standardised 71 mm combination distance
- Conduit entries on the carrier with internal cable routing
- Integrated indicated dimension allows easy cutting off to insulation thickness
- Front fixing and depth stop prevent incorrect installation
- Front fixing of the mounting plate/one-gang box

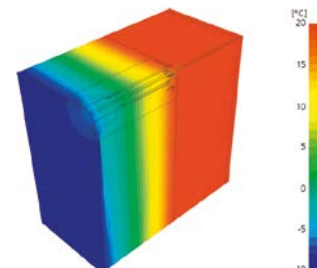


Examples of use

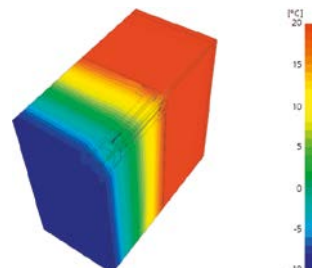


Heat bridge calculation / weight-bearing load

A heat bridge analysis produced by the Passivhaus Institut Dr. Feist, Darmstadt, showed that heat conductivity is only changed to a negligible extent and consequently it is demonstrated that no heat bridges result. When the space between the basic carrier and mounting plate / one-gang box is filled with insulating material, the loss coefficient „x WB“ for the telescope equipment carrier is 0.0085 W/K, and 0.0077 W/K for the telescope switch box.



Telescope equipment carrier



Telescope switch box



When fitting an equipment carrier to a wall, ensure that the cable entries are positioned vertically.



Installing the basic carrier



Prepare the cable routes. Try to avoid direct cable routing through masonry and insulation.



The internal cable routing can easily be broken off to permit cable routing from the rear.



Saw the carrier to the required length. The integrated indicated dimension ensures exact reading of the dimension.

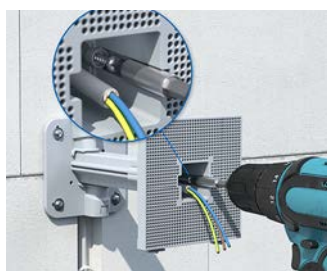


Slotted holes allow precise alignment even when the drill holes are not exact.

Installing the equipment carrier



Push the one-gang box onto the supporting arm as far as the stop.



The front fixing and the depth stop always ensure exact fitting and prevent incorrect installation.



Side fixings allow the secure positioning of several equipment carriers next to each other...



...and stable installation for accessories when the attachment points are far apart.

Installing the one-gang box



Push the one-gang box onto the supporting arm as far as the stop.



The front fixing and the depth stop always ensure exact fitting and prevent incorrect installation.



For multiple combinations, cut out the side separator walls and connect the one-gang boxes.



For multiple combinations, cut out the side separator walls and connect the one-gang boxes.

Product advantages



Dimensions shown on the carrier ensure that the carrier length can easily be sawn off to match the insulation thickness – no need for measuring!



Slotted holes allow precise alignment even when the drill holes are not exact.



The two conduit entries on the carrier guarantee secure conduit support. The integrated cable routing ensures fast, easy cable insertion.



Luminaires and many other accessories are easily fitted in the mounting plate through the plaster using screws up to 4 mm Ø.

Telescope equipment carrier

- for secure installation of luminaires and much more
- for use with external insulation of walls and ceilings
- installation area for dowel-free installation of accessories



3D animation



Product-Data

Length x Width	120 x 120 mm
Insulation thickness	80 - 200 mm
max. attachment surface for devices	120 x 120 mm
Conduit entry M20 on the carrier	2
Weight when attached to ceiling	5 kg
Weight when attached to wall	5 kg
Halogen-free	Yes
Art.-No.	1159-60
Inner packaging/shipping	- / 10

Telescope switch box

- for secure fixing of sockets and much more
- for use with external insulation of walls and ceilings
- with 2 screw domes
- Standardised combination distance 71 mm



Combination one-gang box

- for combinations with telescope switch box (Art. No. 1159-61)



Depth x Length x Width	50 x 68 x 70 mm	50 x 68 x 70 mm
Insulation thickness	80 - 200 mm	-
Screw spacing	60 mm	-
Conduit entry M20 on the carrier	2	-
Cable entries up to Ø 16 mm	2	2
Halogen-free	Yes	Yes
Art.-No.	1159-61	1159-62
Inner packaging/shipping	- / 10	- / 10



Mini equipment carrier

Mini equipment carrier for later attachment of a variety of accessories to insulated and already plastered composite thermal insulation systems (ETICS). Luminaires, motion detectors, external sensors etc. can be permanently attached easily, quickly, securely and without creating heat bridges.

- For retrofitting in insulated facades
- Exact flush aligning of attachment devices
- Guarantees installation without heat bridges
- 4 swivels for secure anchoring
- No moisture penetration



Examples of use



The small mini device carriers are concealed by luminaires and smaller accessories.



Secure attachment of motion detectors.

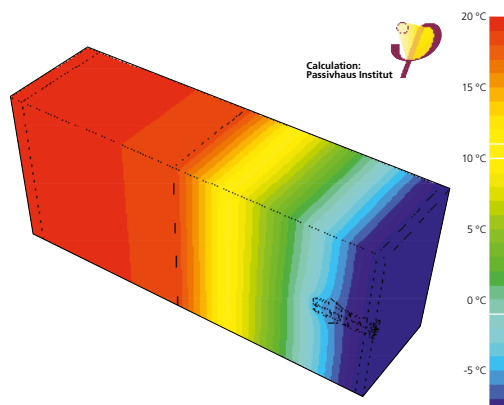


Invisible even when close to edges.



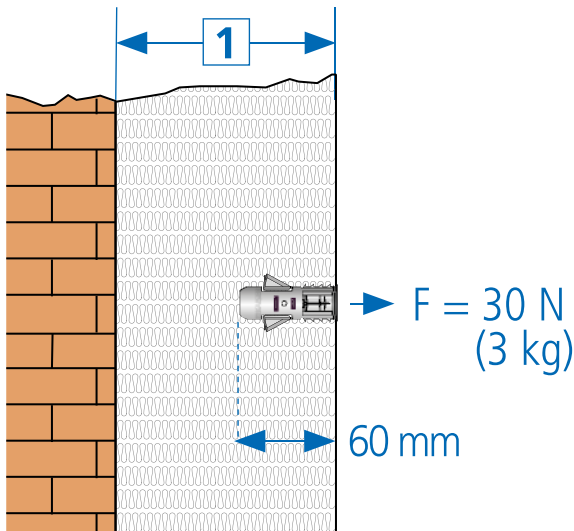
Secure, easy fitting of the corner mounting.

Heat bridge calculation



A heat bridge analysis produced by the Passivhaus Institut Dr. Feist, Darmstadt, showed that heat conductivity is only changed to a negligible extent and consequently it is demonstrated that there are no heat bridges in the electrical installation. The loss coefficient „x WB“ is 0.000054 W/K.

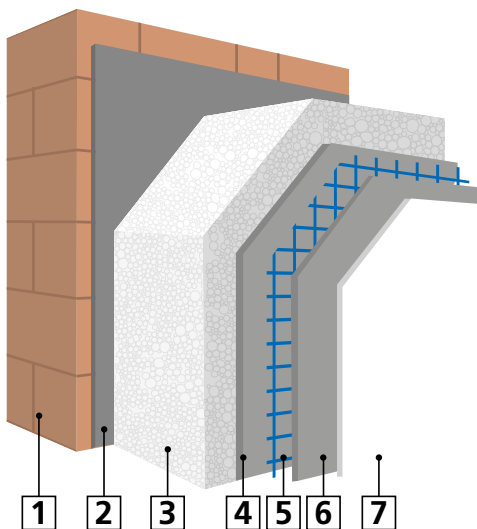
Maximum pull-out force for the mini equipment carrier.



1 External insulation - insulation thickness

Structure of an organic ETICS

The mini equipment carrier was developed especially for later installation in organic composite thermal insulation systems (ETICS).

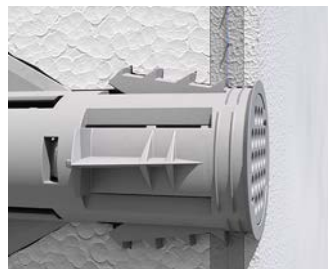


1 Masonry wall | 2 Adhesive | 3 Insulating board | 4 Reinforcement plaster | 5 Reinforcement fabric | 6 Reinforcement plaster | 7 Finish coat of plaster, decorative plaster

Technical information



The swivels anchor the KAISER mini equipment carrier in the insulation.



Clamping ribs, sealing lip and holding ring provide additional stability.



The adjustable screw-on surface accommodates a tolerance of up to 10 mm.



The screw-on surface is concealed even when the attachment points are close to the edge.

Installation

The two-piece mini equipment carrier can be anchored securely in the insulated external facade in a few simple steps.



Create installation openings of Ø 20 mm with SPECIAL cutter with depth stop (Art. No. 1088-06).



Release the cutter head and remove the drilled core.



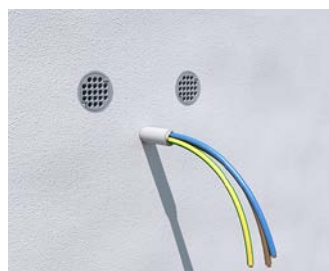
Press the anchor sleeve of the mini equipment carrier into the installation opening so that it is flush with the wall.



Press in the attachment core until it locks into the anchor sleeve.



Pressing in the attachment core anchors the swivels in the insulation material and provides a secure fit for the mini equipment carrier.



The mini equipment carriers now provide stable and wall-flush screw-on surfaces...



...and provide a tolerance compensation of up to 10 mm. This permits later exact alignment of all installation accessories.



The luminaire is securely and permanently flush-mounted to the wall.

Mini equipment carrier

- Retrofitting in existing composite thermal insulation systems (ETICS)
- consisting of anchor sleeve and attachment core
- for insulation thicknesses of 80 mm and upwards
- Screw-on surface with 10 mm tolerance compensation
- 4 swivel cutters
- 2 ribs
- Sealing lip on all sides
- Weight loading up to 30 N (3 kg)
- equipment attached with self-tapping screws with Ø of 3.2 - 4 mm



3D animation



Product-Data

Length	60 mm
Installation opening	Ø 20 mm
Halogen-free	Yes
Art.-No.	1159-50
Inner packaging/shipping	10 / 100

One-gang junction box ECON® Styro55

One-gang junction box ECON® Styro55 for later attachment of a wide range of installation accessories to insulated and pre-plastered composite thermal insulation systems (ETICS). Switches, sockets, intercoms etc. can be permanently attached easily, quickly, securely and without heat bridges.

- For retrofitting in insulated facades
- Cutter system prevents damage to cables
- Guarantees installation without heat bridges
- 4 swivels for secure anchoring
- No moisture penetration



Examples of use



Secure attachment to a ETICS without adhesive.

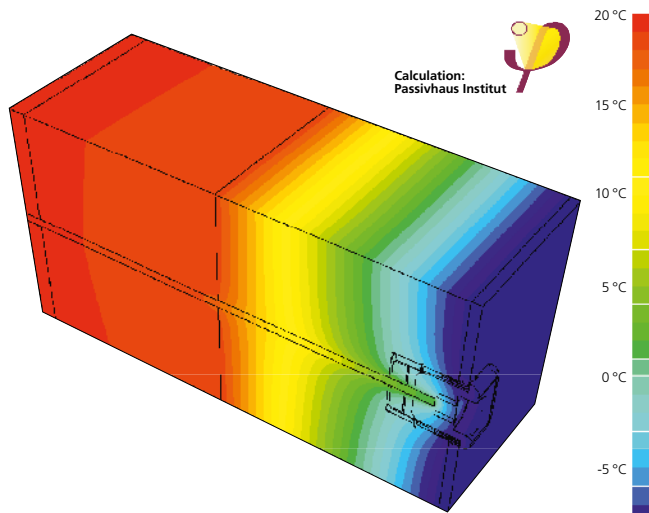


Accessory installation without disrupting the insulation or creating heat bridges.



Secure and flush-mounting installation including multiple combinations.

Heat bridge calculation



A heat bridge analysis produced by the Passivhaus Institut Dr. Feist, Darmstadt, showed that heat conductivity is only changed to a negligible extent and consequently it is demonstrated that no heat bridges result. The loss coefficient „x WB“ is 0.005044 W/K.

Technical information



Tool-free and wind-tight cable entry prevents air draughts along the cable.



The swivels anchor the box securely in the insulation material. The ribs at the front also give the box additional support.



The lip at the back forms a sealing barrier to the insulation material and prevents air draughts along the box.



The all-round sealing lip seals the ETICS, so no moisture can penetrate.

Installation with an existing cable



Ensure that the cable was fed through the insulation material panel. Shorten the existing cable to approximately 10 cm.



Fasten the KAISER centering aid Ø 68 mm (Art. No. 1090-68) to the composite thermal insulation system using steel nails.



Using SPECIAL cutter (Art. No. 1088-07), cut the installation opening precisely as far as the depth stop.



Remove the drilled core from the opening.



The opening is now only as deep as necessary. The insulation remains intact and the cable is undamaged.



The ECON® technology elastic sealing membrane ensures a wind-tight seal around the cable as it is pushed through.



Simply insert the ECON® Styro55 one-gang junction box in the installation opening.



Press the box in the holding ring until the rim is flush with the wall.



Use KAISER tool (Art. No. 1090-22) to position the four swivels in the catch mechanism.



Flush-mounting and secure fit of the one-gang box.



Using the KAISER stripping pliers, (Art. No. 1190-02), remove the insulation from the cable.



The swivel sheaths on the box seat themselves securely in the insulation material.

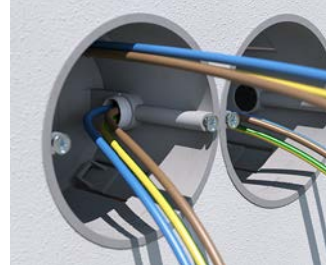
Installation of combinations



Using the combined cutting aids (Art. No. 1090-68), cut installation openings at the standard spacing of 71 mm.



Before inserting the support connector, remove the strap without using a tool.



Fully-insulated through-wiring is accomplished using the KAISER support connector (Art. No. 9060-88).



Secure and permanent attachment of multi-gang combinations, intercoms and much more.

One-gang junction box ECON® Styro 55

- Retrofitting in existing composite thermal insulation systems (ETICS)
- for insulation thicknesses of 80 mm and upwards
- 4 swivel cutters
- Clamping ribs
- Sealing lip on all sides
- including setting tool (Art. No.1090-22) per packaging unit



3D animation



Product-Data

Depth	60 mm
Cut hole Ø	68 mm
Cable entries up to Ø 15 mm	2
Device screws	2
Screw spacing	60 mm
Support connectors for each package	5
	Yes
Art.-No.	1555-51
Inner packaging/shipping	10 / 100



One-gang junction box - ECON® Iso +

The ECON® Iso + one-gang junction box is the solution for electrical installation work in wood fibre insulation boards. Four swivels, specially designed for use in solid heat insulation and plaster base boards, ensure secure anchoring – also for retrofitting! The ECON® technology elastic sealing membrane guarantees air tightness and allows the toolless insertion of conduits or cables. This means that switches, sockets, intercoms and many more can be installed permanently and securely and heat bridge-free.

3 times awarded in 2019:

B+B Bauen im Bestand
Produkt des Jahres 2019
Sieger in der Kategorie Energetische Sanierung



- Air-tight and heat bridge-free electrical installation in accordance with DIN 18015-5
- Suitable for pressure-resistant insulation panels of 60 mm thickness and greater
- 4 swivels for secure mechanical anchoring
- Making of combinations is possible

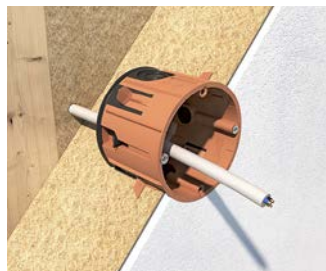
Examples of use



Ecological wall insulation in old and new buildings in both wood and solid constructions.



Suitable for mounting in pressure-resistant wood fibre insulation boards with a medium gross density of 110 - 180 kg/m³.

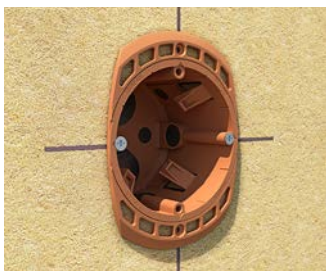


Retrofitting is possible. For retrofitting on the plastered wall, fit the box without a mounting frame.

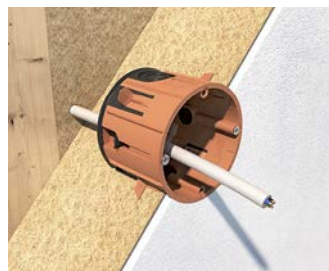


User-friendly mounting of the installation of accessories - also in combination - possible.

Processing instructions



Mounting in an unplastered insulation panel – use a mounting frame.



Mounting in a plastered insulation panel is possible, even with an existing cable.

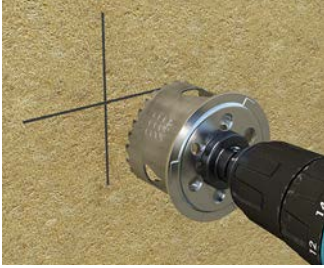


The membrane which seals the swivel guarantees air-tightness.

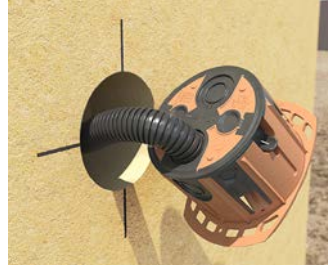


Plenty of entry options using ECON® technology for conduits and cables.

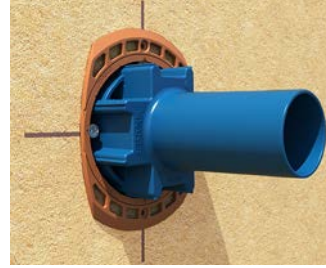
Mounting on unplastered insulation panel



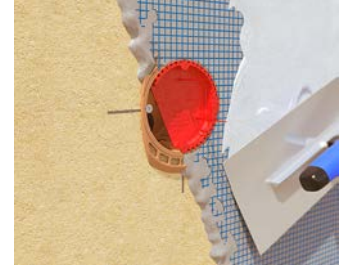
Cut the Ø 68 mm installation opening using a suitable cutter (e. g. Art. No. 1082-30; countersink hole cutter and ejector spring must be removed).



Fit mounting frame, then feed the cable or conduit through the airtight membrane and into the box.



Using gentle pressure, insert the setting tool (Art. No. 1090-22) into the box as far as the stop. The swivels must expand completely.



Before plastering, fit the signal cover (Art. No. 1181-60). Protects the interior of the box, the screw domes and the screw heads.

Mounting on plastered insulation panel in a combination



Using SPECIAL cutter (Art. No. 1088-07) and two centering aids (Art. No. 1090-68), cut two installation openings at least 55 mm deep and with a diameter of 68 mm.



The ECON® technology sealing membrane wraps itself air-tight round the cable during insertion.



Through-wiring takes place after removal of the opening tabs and fitting of the support connector.



Installation of various installation accessories is possible – including in combinations.

One-gang junction box - ECON® Iso +

- Sealing lip on all sides
- 4 swivel cutters
- 4 screw domes
- with 2 device screws +/-
- including centering aid
- including setting tool (Art. No. 1090-22) per packaging unit




INNOVATION



3D animation



Product-Data

Depth	55 mm
for insulation thicknesses	> 60 mm
Cut hole Ø	68 mm
Device screws	2
Screw spacing	60 mm
Cable entries of up to Ø 11.5 mm	4
Conduit entries M20	4
Support connectors for each package	5
Halogen-free	Yes
	Yes
Art.-No.	1159-55
Inner packaging/shipping	10 / 100

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



Q-range® one-gang boxes

- For masonry installation
- With screw domes
- Conduit entries on all sides
- Suitable for 60 / 71 mm combinations
- Protection class IP 2X



Length x Width x Depth	60 x 60 x 50 mm	60 x 60 x 65 mm	60 x 60 x 50 mm	60 x 60 x 65 mm
Fixing screw spacing	60 mm	60 mm	60 mm	60 mm
Device screws	2	2	-	-
Screw domes for device attachment	V: 2 x 3, H: 2 x 1	V: 2 x 3, H: 2 x 1	V: 2 x 3, H: 2 x 1	V: 2 x 3, H: 2 x 1
Horizontal conduit entry	2 x M20, 2 x M16/20 mm	2 x M20, 2 x M16/20 mm	2 x M20, 2 x M16/20 mm	2 x M20, 2 x M16/20 mm
Vertical conduit entry	2 x M16, 4 x M16/20 mm	2 x M16, 4 x M16/20, 4 x M20 mm	2 x M16, 4 x M16/20 mm	2 x M16, 4 x M16/20, 4 x M20 mm
Base conduit entry	2 x M20, 2 x M16, 2 x Ø 10,5 mm	2 x M20, 2 x M16, 2 x Ø 10,5 mm	2 x M20, 2 x M16, 2 x Ø 10,5 mm	2 x M20, 2 x M16, 2 x Ø 10,5 mm
Through-wiring fields	1	2	1	2
Halogen-free	Yes	Yes	Yes	Yes
 CE mark	Yes	Yes	Yes	Yes
Art.-No.	7500	7650	7501	7651
Inner packaging/shipping	10 / 100	10 / 100	10 / 100	10 / 100

Q-range ECON® one-gang box

- Air-tight design with sealing membranes
- Centre distance 60 mm horizontally as well as 71 mm horizontally and vertically
- 2 x 3 fixed entries, 2 x 2 fixed entries, 4 base entries



Length x Width x Depth	60 x 60 x 50 mm
for screw fixing	Yes
Horizontal conduit entry	2 x 20 + 2 x 16 mm
Base conduit entry	2 x 20 + 2 x 16 mm
Vertical conduit entry	2 x 20 + 1 x 16 mm
Halogen-free	Yes
Art.-No.	752
Inner packaging/shipping	10 / 100

Q-up®

- Plaster compensation frame with 2 screws 40 mm, Pozidriv drive
- For boxes which are placed too deeply



Art.-No.	994
Inner packaging/shipping	10 / 100

Q-signal®

- Protects the box interior, the screw domes and screw heads during plastering
- Reusable



Art.-No.	975
Inner packaging/shipping	10 / 100

One-gang box - Swiss standard

- compatible with Feller SNAPFIX®
- Suitable for screw or claw fixing of accessories
- For device screws Ø 3 mm
- Max. tightening torque 0.5 Nm
- With injection-moulded signal cover
- For assembling combinations, centre distance 60 mm
- Low-lying plaster grips



Depth	59 mm
Diameter	71 mm
Break-out openings Ø 20 mm	11
Combination conduit entries M20/25	1
650 °C /	Yes / Yes
/	Yes /
Art.-No.	9921
Inner packaging/shipping	- / 50

One-gang box - Swiss standard



- suitable for screw attachment of equipment
- to create combinations in both axis directions, centre distance 60 mm
- with separator wall



Length x Width x Depth	72 x 72 x 57 mm
Break-out openings Ø 20 mm	13
Combination conduit entries M20/25	5
CE	Yes
Art.-No.	99.1234
Inner packaging/shipping	- / 50

Signal cover

- for one-gang box Art. No. 99.1234



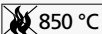

Length x Width	67 x 67 mm
Art.-No.	99.1234.06
Inner packaging/shipping	- / 25

In-wall back boxes, quadratic glow wire tested 850°C



- Flat bearing surface thanks to 4 support points
- Voltage transfer is prevented by countersunk screw mounts
- Essential in timber construction
- Extension frame for sub-ceiling insulation available



Length x Width x Depth	115 x 115 x 76 mm	115 x 115 x 101 mm
Break-out openings Ø 20 mm	16	16
Combination conduit entries M20/25	4	8
 850 °C / 	Yes / Yes	Yes / Yes
CE	Yes	Yes
Art.-No.	9909.01.850	9908.01.850
Inner packaging/shipping	- / 50	- / 30

Heightening frame for quadratic in-wall back boxes, glow wire tested at 850°C



- For increasing the front-to-back depth of the box or for sub-ceiling insulation
- Multiple extensions possible
- With two fixing screws



Length x Width x Depth	115 x 115 x 13 mm	115 x 115 x 45 mm
850 °C /	Yes / Yes	Yes / Yes
CE	Yes	Yes
Art.-No.	9908.68	9908.68.45
Inner packaging/shipping	- / 10	- / 10

One-gang box (Italian and American standard)

- with 2 screw domes (without screws)



Length x Width x Depth	100 x 60 x 52 mm	121 x 60 x 52 mm
Screw spacing	83 mm	108 mm
M16 conduit entries	1	1
Conduit entries M20	12	12
Conduit entries M25	3	6
Art.-No.	662	663
Inner packaging/shipping	5 / 100	5 / 100

One-gang box acc. to EN 60670 and ÖVE

- variable screw fitting 57-63 mm
- 4 expanding claw fields



Depth	51 mm
Cable entries 1 x 5 x 1.5 mm ² or 3 x 2.5 mm ²	Yes
Conduit entries M16-M20	10
Telephone cable J-Y(ST)Y	1
	Yes
Art.-No.	1076-20
Inner packaging/shipping	- / 100