

# Installation solutions in ETICS.

Electrical installation for all standard insulation material types.



# The energy-efficient house.

Heat bridge-free electrical installation and fixing solutions



# Solutions in ETICS.



### Installation on the masonry:

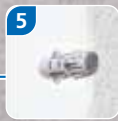
- 1 Telescope equipment carrier (pg. 4)
- 2 Universal equipment carrier (pg. 4)
- 3 Telescope switch box (pg. 5)
- 4 ThermoX® Iso + installation housing (pg. 6)

### Retrofitting in a finished composite thermal insulation system:

- 5 Mini equipment carrier (pg. 7)
- 6 ECON® Styro55 (pg. 8)
- 7 ECON® ISO + (pg. 9)

### Installation of the internal insulation:

- 8 Internal insulation box (pg. 10)





# Secure fit without heat bridges. Equipment carriers.



Product  
video

The **telescope equipment carrier** and the **universal equipment carrier** make it possible to install various accessories, such as external luminaires and motion detectors on the insulated facade. Both types of equipment carrier are securely fixed mechanically to the masonry, enabling them to durably support the weight of the connected accessories.

The **universal equipment carrier** can be easily adapted, using extension elements, to suit insulation thicknesses of up to 360 mm. The **telescope equipment carrier** is adjustable to any insulation thickness from 80 mm to 200 mm. The large-area, universal screw-on surfaces can be plastered over and offer great flexibility in connecting devices.

The choice of two front plates and the modular design for insulation thicknesses from 160 to 310 mm make the **system equipment carrier** an extremely versatile product. Because its individual elements can be combined as needed, it can be adapted in increments of 10mm to suit the insulation thickness, eliminating the need for time-consuming cutting to size.

Using the supplied screw anchors, the equipment carrier can be easily, quickly and permanently fixed to many surfaces types in a secure way. Accessories can then be screwed as required to the large-area universal screw-on surface.



Telescope equipment carrier



Universal equipment carrier



System equipment carrier



## Simple installation, strong application. **One-gang boxes.**



Product  
video

The **telescope equipment carrier** and the **universal equipment carrier for combination inserts** enable you to install various installation accessories, such as door communication, switches and sockets, in the insulated facade. Both types of equipment carrier are securely fixed mechanically to the masonry, enabling them to durably support the weight of the connected devices.

The **universal equipment carrier for combination inserts** can be easily adapted, using extension elements, to suit insulation thicknesses of up to 360 mm. The **telescope switch box** is adjustable to any insulation thickness from 80 mm to 200 mm.

Both products are also suitable for device combinations up to 3-way. The **universal equipment carrier for combination inserts** has a front plate with covers that can be removed for the relevant combination and then expanded at a later date. Optional **combination one-gang boxes** are also available for **telescope switch boxes** for expansion purposes.

The **system equipment carrier with multi accessory insert** is suitable for insulation thicknesses from 160 mm to 310 mm. The modular design and the combination of the individual elements in 10 mm intervals allow for flexible adaptation to the insulation system.



Telescope switch box



Universal equipment carrier for combination inserts



System equipment carrier with multi device insert.



# For installation in insulated ceilings. ThermoX<sup>®</sup> Iso + installation housing.

The **ThermoX<sup>®</sup> Iso + installation housing** is the optimal solution for installing LED luminaires and installation accessories in external ceilings using the composite thermal insulation system. It provides secure space for LED luminaires up to 8 Watt as well as the ballast device. The installation housing is suitable for use in all standard insulation materials, such as wood fibre insulation, foam glass, mineral foam and expanded polystyrene (EPS).

- For installing 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 intervals
- Installation diameter up to  $\varnothing$  86 mm



Product  
video



ThermoX Iso +





## For fixing as part of retrofitting. The mini equipment carrier.



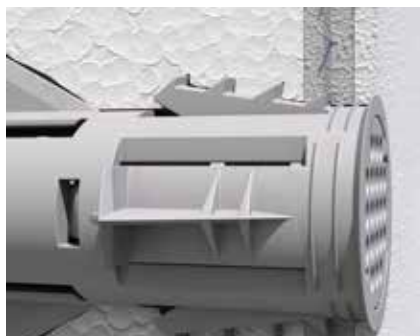
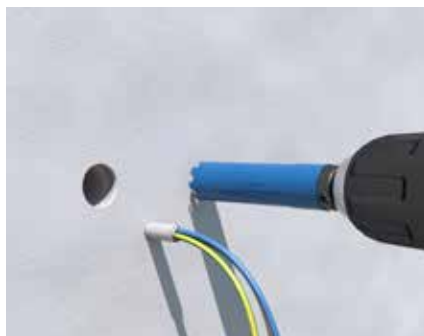
Product  
video

The **mini equipment carrier** is ideal for secure, wall-flush fixing of accessories, such as luminaires, cameras, motion detectors, letter boxes and many other systems, which need to be fitted to installed composite thermal insulation systems.

- For retrofitting in insulated facades
- 4 swivels for secure anchoring
- Exact, flush alignment of accessories
- Guaranteed heat bridge-free installation
- No moisture penetration

The **mini equipment carrier** consists of two parts and can be firmly anchored quickly and easily into the composite thermal insulation system. It is suitable for medium density wood fibre insulation boards, mineral foam boards, foam glass and expanded polystyrene insulation materials.

The special screw-on surface ensures precise alignment – a major advantage compared to conventional fixing elements, especially in the case of multiple fixings, such as insulation dowels.



Mini equipment carrier



# Secure anchoring without a heat bridge. **ECON® Styro55.**



Product video

The **ECON® Styro55** one-gang junction box makes it possible to retrofit accessories, such as sockets and switches, in composite thermal insulation systems. The process is fast, secure and free from heat bridges. The box is inserted and fixed into position in just a few steps.

- Air-tight and heat bridge-free electrical installation (verifications according to corresponding standards are available)
- Suitable for pressure-resistant insulation panels of 60 mm thickness and higher
- 4 swivels for secure anchoring
- Combinations are also possible

Using the **KAISER hardened metal cutter 180** (diameter: 68 mm) and the centering aid, the composite thermal insulation system is opened exactly and only as deep as is required. There is no damage to existing electric cables.

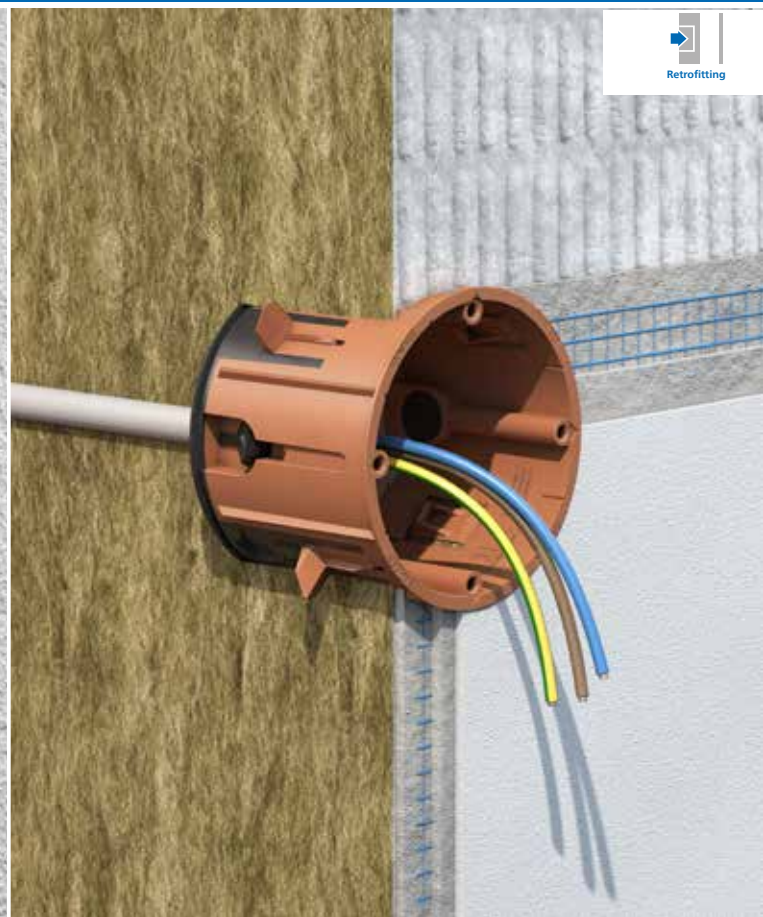
With its toolless, air-tight entry, **ECON®** technology, prevents cold draughts from getting into the masonry when electric cables are fed in directly.

The box is fixed into position by the **KAISER setting tool** after being pressed into the composite thermal insulation system. The swivels cut themselves firmly into the insulation material, which ensures a permanently secure fit for the box.



ECON® Styro55





## For wood fibre and rock wool. **ECON® Iso +**



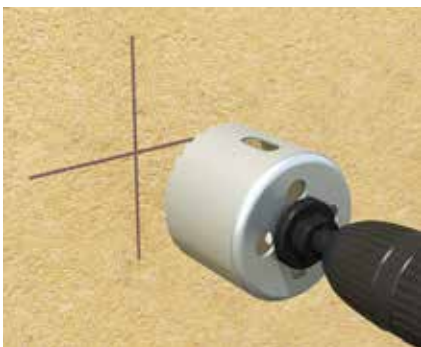
Product  
video

The **ECON® Iso + one-gang junction box** is the solution for electrical installation work in wood fibre as well as insulation boards. Four swivels, specially designed for use in solid heat insulation and plaster base boards, ensure secure anchoring – even for retrofitting!

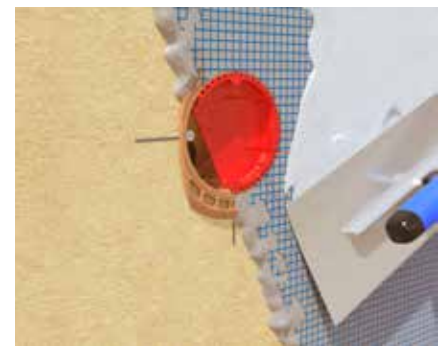
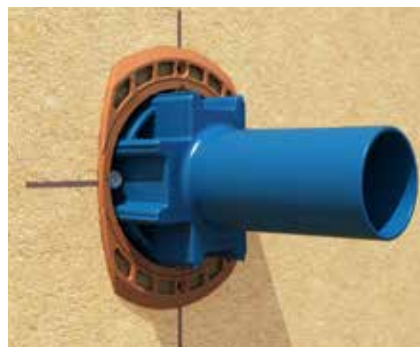
The **ECON® technology** elastic sealing membrane guarantees air tightness and enables toolless insertion of conduits or electric cables. This means that switches, sockets, intercoms and much more can be installed permanently and securely as well as heat bridge-free.

**Ecological wall insulation in old and new buildings** in both wooden and solid constructions. **ECON® Iso +** is suitable for installation in pressure-resistant wood fibre insulation boards with a medium gross density of 110 - 180 kg/m<sup>3</sup> and rock wool ETICS insulation boards of 85 - 120 kg/m<sup>3</sup>.

- Air-tight and heat bridge-free electrical installation (verifications according to corresponding standards are available)
- Suitable for pressure-resistant insulation boards in thicknesses from 60 mm
- 4 swivels for secure mechanical anchoring
- Combinations are also possible



ECON® Iso +





# Installation in internal insulation systems. **Internal insulation box.**



Product video

**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 an optimal indoor climate with proven protection from moisture damage.

**The internal insulation box** is suitable for use in permeable insulation systems consisting of mineral or organic insulation material with different insulation thicknesses.

- Ensures heat bridge-free installation
- Moisture regulating and insulating
- Prevention of moisture induced structural damage
- Can be used in many insulation systems
- For insulation thicknesses from 30 to 100 mm
- Installation on masonry without plaster

**The internal insulation box** provides the fitter with an easy-to-use solution for professional fitting of electrical installation systems in internal insulation systems. The easy installation and flexible application options make all the difference. After installation, they are proven to play their part in the insulation system's function.



- 1 Fixing lug | 2 Snap-in connection for combinations | 3 Insulation thickness scale | 4 High-performance insulating components | 5 Sealing lips | 6 Moisture-controlling components | 7 Heat-conductive internal components

# Heat bridge-free electrical installation. At a glance.

## For installation on the masonry



**Telescope equipment carrier**  
1159-60



**Universal equipment carrier with extension element**  
1159-24 | 1159-27



**System equipment carrier 160 - 240 mm**  
9966.21



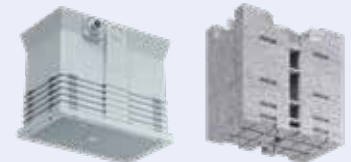
**Telescope switch box | Combination one-gang box**  
1159-61 | 1159-62



**System equipment carrier 160 - 240 mm**  
9966.31



**Universal equipment carrier for combination inserts**  
1159-26



**ThermoX® Iso + installation housing | Extension element**  
1159-70 | 1159-71

## For retrofitting in a composite thermal insulation system



**Mini equipment carrier**  
1159-50



**ECON® Styro55 one-gang junction box**  
1555-51



**ECON® Iso + one-gang junction box**  
1159-55



**Internal insulation box**  
1159-90

## For internal insulation

## Tools



**Styro55 setting tool**  
1090-22



**Hardened metal cutter SPECIAL COMPOSITE THERMAL INSULATION SYSTEM**  
1088-06/07



**Centering aid**  
1090-68



**Signal cover**  
1181-60

# Systems and solutions for professional electrical installation work.

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



## Energy efficiency

Innovative KAISER products help you to ensure compliance with the requirements of EU Directives and national regulations, such as the German Energy Act for Buildings (GEG, formerly EnEV).



## Radiation protection

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



## Fire protection

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



## Construction

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



## Sound insulation

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



## Concrete construction

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

### Technical information and advice

All current further information on products, system solutions and communication media can be found on our website at [www.kaiser-elektro.de](http://www.kaiser-elektro.de)

For additional questions or information, our team of technical consultants will be happy to assist you and look forward to talking to you: **+49 (0)23 55 80961** · [technik@kaiser-elektro.de](mailto:technik@kaiser-elektro.de)

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