

Lightning protection for ETIC* systems

Test junction box for external thermal insulation composite systems



Easy integration of test junction boxes in full thermal insulation systems for new and restored buildings.

To save energy, buildings are frequently insulated by means of external thermal insulation composite systems made of mineral fibres or polystyrene cellular plastics. The technical processing guidelines of insulating material manufacturers describe in detail how to connect windows, doors, ventilation pipes and switch boxes. These requirements are also important for lightning protection components.

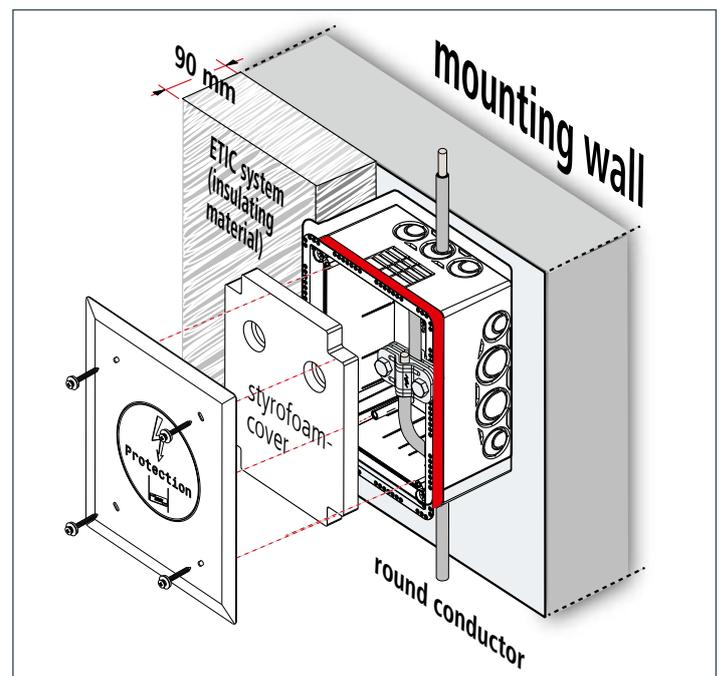
DEHN now offers a telescopic test junction box which can be integrated in full thermal insulation systems. Thus, the air-termination or down conductors can be galvanically isolated from the earth-termination system for electrical measurements.



Integration of the test junction box in the full thermal insulation system

The DEHN test junction box for external thermal insulation composite systems is

- **Flexible:** The test junction box is ideally suited for all common external thermal insulation composite systems. It is telescopic and can thus be continuously adjusted to material thicknesses between 90 and 140 mm. A spacer must be used for material thicknesses between 140 and 320 mm.
- **Heat-insulating:** The spacer has a styrofoam core. This avoids heat bridges.
- **Robust and protected from wind-driven rain:** The entire test junction box including the cover is protected from wind-driven rain. This is achieved by using a UV and weather-resistant foam sealing material. The stainless steel cover is profiled to ensure that sufficient pressure is exerted on the plaster at the edge of the cover. To prevent the ingress of moisture into the sealing, a sealing tape** is used to integrate the test joint box in the external thermal insulation composite system.
- **Easy to mount:** After the test junction box has been mounted by a lightning protection expert, a specialist company properly integrates it in the external thermal insulation composite system. The compressed sealing tape** is attached to the adhesive surface in the upper area of the test junction box. This considerably simplifies the integration of the test junction box.



Adhesive surface (red) for the sealing tape

* external thermal insulation composite

** also referred to as swelling tape or water stop

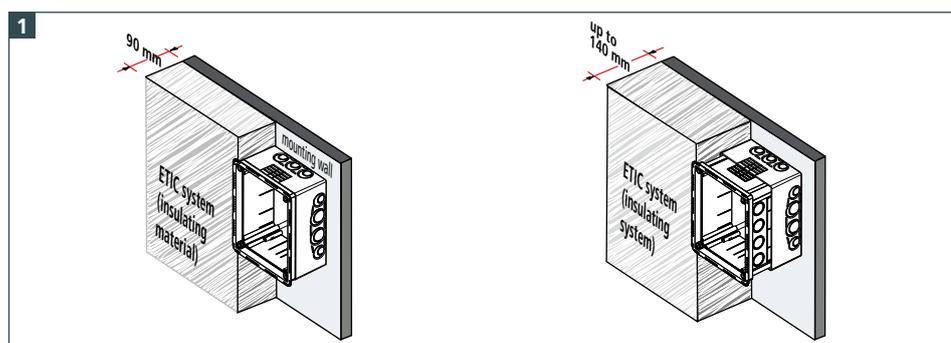
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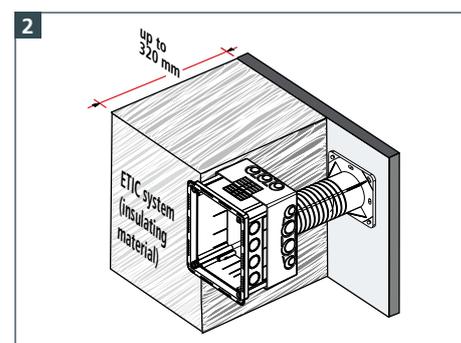


The test junction box can be mounted as follows:

- 1 Directly on the wall
- 2 By means of an additional spacer



Mounting the telescopic test junction box on the wall



Mounting the telescopic test junction box by means of a spacer

Set consisting of a test junction box and a spacer

- Ready-to-mount complete unit
- Protected from wind-driven rain
- UV-stabilised and weather-resistant



Technical Data	Part No. 476 055
Material of the box	PC / ABS
Dimensions of the box	185 x 145 mm
Material of the cover	Stainless steel
Dimensions of the cover	235 x 195 mm
Material of the spacer	PP
Dimensions of the spacer	120 x 120 x 200 mm
Mounting height	90 – 320 mm

Test junction box

- For material thicknesses between 90 and 140 mm
- Protected from wind-driven rain
- UV-stabilised and weather-resistant



Technical Data	Part No. 476 050
Material of the box	PC / ABS
Dimensions of the box	185 x 145 mm
Material of the cover	NIRO
Dimensions of the cover	235 x 195 mm
Mounting height	90 – 140 mm
Colour	RAL 7035

Spacer

- For material thicknesses between 140 and 320 mm
- Can be combined with the test junction box
- Can be shortened at 10 mm intervals
- With styrofoam core – No heat bridge
- UV-stabilised and weather-resistant



Technical Data	Part No. 476 053
Material of the spacer	PP
Dimensions of the spacer	120 x 120 x 200 mm
Colour	RAL 7035
Weight	148 g

* external thermal insulation composite

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