

Certificate

about the quality of airtightness

Component: One-gang junction box ECON[®] Iso +, Art.-No. 1159-55

Customer: Kaiser GmbH & Co. KG, Ramsloh 4, 58579 Schalksmühle

Test Object:

Housing consisting of plastic-coated chipboards with therein installed on a plastered fiber insulation board 15 one-gang junction boxes ECON[®] Iso + (Art.-No. 1159-55) with 8 conduit and 8 cable entries.

Results:

Using the BlowerDoor Micro-Leakage-Meter measurement system and the DG-700 the following values for the airflow and the permeability of building components at a pressure difference of 10 Pa were achieved:

Airflow at 50 Pascal based on 15 one-gang junction boxes ECON[®] Iso + with 16 cable and conduit entries:

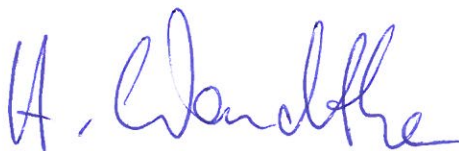
$$V_{50} = 2,3511 \text{ m}^3/\text{h}$$

Airflow at 10 Pascal relative to the joint length (permeability of building component):

$$\text{leakage rate} = 0,0929 \text{ m}^3/(\text{h} \cdot \text{m})$$

According to DIN 4108-2:2013-02 chapter 7 para. 3, the requirement for component connection joints is $\leq 0.1 \text{ m}^3/\text{mh}$ (daPa^{2/3}).

The tightness of component connection joints of the One-gang junction box ECON[®] Iso + (Art.-No. 1159-55) satisfies the requirements.



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