

Certificate

about the quality of airtightness

Component: One-gang junction box ECON[®], Art.-No. 9264-22
One-gang junction box ECON[®], halogen-free, Art.-No. 9264-78

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

Test Object:

Housing consisting of plastic-coated chipboards with therein installed
10 one-gang junction boxes ECON (Art.-No. 9264-22) and 10 one-gang junction boxes
ECON[®], halogen-free (Art. No. 9264-78) with 8 conduit and 24 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 20 one-gang junction boxes ECON[®]
with 32 cable and conduit entries:

$$V_{50} = 0,2904 \text{ m}^3/\text{h}$$

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

$$\text{leakage rate} = 0,0136 \text{ m}^3/(\text{h}\cdot\text{m})$$

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[™]
and the one-gang junction box ECON[®], halogen-free (Art.-No. 9264-22, 9264-78)
satisfies the requirements.**



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Dipl.-Ing. Heiko Wandtke

Ingenieurgesellschaft
Bau + Energie + Umwelt GmbH
Zum Energie- und Umweltzentrum 1
31832 Springe-Eldagsen

Telefon 05044 / 975-30
Telefax 05044 / 975-44