



Dipl.-Ing. Wilfried Walther
Sachverständiger für Bauphysik

Certificate

about the quality of airtightness

Component: Kaiser One-gang box O-range ECON[®] Data

Art.-No. 9280-22

Kaiser One-gang box O-range ECON[®] Data halogen-free

Art.-No. 9280-78

Customer: KAISER GmbH & Co. KG, Ramsloh 4, D-58579 Schalksmühle

Test Object:

Housing consisting of plastic-coated chipboards with therein installed ten One-gang boxes O-range ECON[®] Data (Art.-No. 9280-22) and ten One-gang boxes O-range ECON[®] Data, halogen-free (Art.-No. 9280-78) with 12 conduit and 40 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 twenty one-gang boxes O-range ECON[®] Data with 52 cable and conduit entries:

$$V_{50} = 0,1913 \text{ m}^3/\text{h}$$

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

$$\text{leakage rate} = 0,0100 \text{ m}^3/(\text{h} \cdot \text{m})$$

According to DIN 4108-2:2013-02 chapter 7 para. 3, the requirement for component connection joints is $\leq 0,1 \text{ m}^3/\text{mh} (\text{daPa}^{2/3})$.

The tightness of component connection joints of the One-gang boxes O-range ECON[®] Data, Art.-No. 9280-22 and 9280-78 satisfies the requirements.

20.02.2020

Dipl.-Ing. Heiko Wandtke

Büro für Bauphysik und Energieberatung
Wilfried Walther
Zum Energie- und Umweltzentrum 1
31832 Springe-Eldagsen