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Certificate

about the quality of airtightness

Component: Kaiser Multi-gang boxes O-range ECON[®]
Art.-No. 9252-22, 9253-22, 9254-22, 9252-78, 9253-78, 9254-78

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

Test Object:

Housing consisting of plastic-coated chipboards with therein installed four Multi-gang boxes O-range ECON[®] (Art.-No. 9252/3/4-22) and five O-range ECON[®], halogenfree (Art.-No. 9252/3/4-78) with 16 conduit and seven cable entries and two connection fittings.

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 nine Multi-gang boxes O-range ECON[®] with 25 cable and conduit entries:

$$V_{50} = 0,2478 \text{ m}^3/\text{h}$$

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

$$\text{leakage rate} = 0,0122 \text{ m}^3/(\text{h} \cdot \text{m})$$

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 Multi-gang boxes O-range ECON[®], Art.-No. 9252-22, 9253-22, 9254-22, 9252-78, 9253-78, 9254-78 satisfies the requirements.

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