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Certificate

about the quality of airtightness

Component: One-gang box UP¹ ECON® (Art.-No. 1055-25)
One-gang box UP¹ ECON® with device screws (Art.-No. 1056-25)
One-gang junction box UP¹ ECON® (Art.-No. 1555-25)
One-gang junction box UP¹ ECON® with device screws (Art.-No. 1556-25)

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

Test Object:

Housing consisting of plastic-coated chipboards with therein installed five one-gang boxes, five one-gang boxes with device screws, five one-gang junction boxes and five one-gang junction boxes with device screws with 28 conduit and 24 cable entries.

Results:

Airflow at 50 Pascal based on ten one-gang boxes and ten one-gang junction boxes with 52 cable and conduit entries:

$$V_{50} = 1,1581 \text{ m}^3/\text{h}$$

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

$$\text{leakage rate} = 0,0548 \text{ m}^3/(\text{h} \cdot \text{m})$$

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 box UP¹ ECON® (Art.-No. 1055-25), the One-gang box UP¹ ECON® with device screws (Art.-No. 1056-25), the One-gang junction box UP¹ ECON® (Art.-No. 1555-25) and the One-gang junction box UP¹ ECON® with device screws (Art.-No. 1556-25) satisfies the requirements.

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