



Dipl.-Ing. Wilfried Walther
Sachverständiger für Bauphysik

Certificate

about the quality of airtightness

Component: UP¹ ECON[®] Fix electronics box (Art.-No. 1068-26)
UP¹ ECON[®] Fix two-gang junction box (Art.-No. 1656-26)

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

Test Object:

Housing consisting of plastic-coated chipboards with therein installed four electronics boxes and five two-gang junction boxes with 24 conduit and 10 cable entries.

Results:

Airflow at 50 Pascal based on nine UP¹ electronics and two-gang junction boxes with 34 cable and conduit entries:

$$V_{50} = 0,4877 \text{ m}^3/\text{h}$$

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

$$\text{leakage rate} = 0,0293 \text{ m}^3/(\text{h}\cdot\text{m})$$

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 UP¹ ECON[®] Fix electronics box (Art.-No. 1068-26) and the UP¹ ECON[®] Fix two-gang junction box (Art.-No. 1656-26) satisfies the requirements.


16.07.2024 Dipl.-Ing. Heiko Wandtke

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