

Certificate

about the quality of airtightness

Component: One-gang box HELIA, Art.-No. 5021

Customer: N.V. PLASTIC COLOR, Puursesteenweg 363, B-2880 Bornem

Test Object:

Housing consisting of plastic-coated chipboards with therein installed
20 one-gang boxes HELIA (Art.-No. 5021) 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 boxes HELIA
with 32 cable and conduit entries:

$$V_{50} = 0,2112 \text{ m}^3/\text{h}$$

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

$$\text{leakage rate} = 0,0084 \text{ m}^3/(\text{h} \cdot \text{m})$$

According to DIN 4108-2:2013-02 chapter 7 para. 3, the requirement for component connection joints is $\leq 0.1 \text{ m}^3/\text{mh} (\text{daPa}^2/P)$.

**The tightness of component connection joints of the one-gang box HELIA (Art.-No. 5021)
satisfies the requirements.**

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