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Certificate

about the quality of airtightness

Component: HELIA O-range® Acoustic one-gang box, halogen-free (Art. no. 5321)
HELIA O-range® Acoustic one-gang junction box, halogen-free (Art. no. 5329)

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

Test Object:

Housing consisting of plastic-coated chipboards with therein installed halogen-free ten HELIA one-gang boxes (Art. no. 5321) and ten one-gang junction boxes (Art. no. 5329) with 12 conduit and 12 cable entries.

Results:

Airflow at 50 Pascal based on twenty HELIA one-gang boxes and one-gang junction boxes with 24 cable and conduit entries:

$$V_{50} = 0,2744 \text{ m}^3/\text{h}$$

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

$$\text{leakage rate} = 0,0106 \text{ m}^3/(\text{h}\cdot\text{m})$$

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

The tightness of component connection joints of the halogen-free HELIA O-range® Acoustic one-gang box (Art. no. 5321) and one-gang junction box (Art. no. 5329) satisfies the requirements.

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