

Declaration of Performance

Nr. 2019/08-RWA-E-48

1. Unique identification code of product-type: **Ceiling hatch of type RWA 12**
 Opening angle: 48°
 Cylinder stroke: 400 mm
 Drive system: Electric (24V)
2. Intended Use: Fire protection
 Natural Smoke and Heat Exhaust Ventilators
 for installation in internal suspend sealing
 Installation position 0° to horizontals
3. Manufacturer: cool it Isoliersysteme GmbH
 Ochsenweg 18, 49324 Melle, Germany
4. Authorised representative: not named
5. System of AVCP: 1
6. Harmonised standard: EN 12101-2: 2003
 Notified body: MPA NRW – NB-Nr. 0432
7. Declared Performance:

| Essential characteristics | Description of characteristics | Sections with requirements | Performance | Harmonised technical specification |
|--|---|----------------------------|---------------------|------------------------------------|
| Nominal trigger devices/ Sensitivity | Trigger device thermal-electric | 4.1 | passed | EN 12101-2:2003 |
| | Electrical opening mechanism | 4.2 | passed | EN 12101-2:2003 |
| Response delay | | 7.1.2 | passed | EN 12101-2:2003 |
| Operational reliability | without external load | 7.1 | Re 100 (type A) | EN 12101-2:2003 |
| | ventilation position | 7.1.3 | npd | EN 12101-2:2003 |
| | opening under wind load | 7.4 | WL 0 | EN 12101-2:2003 |
| Efficiency of smoke and heat ventilation Aerodynam free area | | 6 | Aa (see table) | EN 12101-2:2003 |
| Resistance to heat and mechanical stability | | 7.5 | B ₃₀₀ 30 | EN 12101-2:2003 |
| Opening under environmental conditions | Snow load | 7.2 | SL 0 | EN 12101-2:2003 |
| | Snow load with low ambient temperature | 7.3 | T (-15) with SL 0 | EN 12101-2:2003 |
| Reaction to fire of building material | | 7.5.2.1 | E | EN 13501-1:2010 |

Efficiency of smoke and heat ventilation, Aerodynamic free area in [m²]

| Aa-values [m ²] | | Opening angle 48° | | | | | |
|--------------------------------|------|-----------------------------|------|------|------|------|------|
| | | Width clear opening in [cm] | | | | | |
| | | 80 | ≥90 | ≥100 | ≥110 | ≥120 | 128 |
| Height clear opening in [mm] | 80 | 0,36 | 0,42 | 0,47 | 0,52 | 0,58 | 0,62 |
| | ≥90 | 0,41 | 0,46 | 0,52 | 0,58 | 0,64 | 0,69 |
| | ≥100 | 0,45 | 0,50 | 0,57 | 0,64 | 0,70 | 0,76 |
| | ≥110 | 0,49 | 0,55 | 0,57 | 0,68 | 0,75 | 0,82 |
| | ≥120 | 0,53 | 0,59 | 0,67 | 0,74 | 0,81 | 0,88 |
| | ≥130 | 0,57 | 0,64 | 0,72 | 0,79 | 0,86 | 0,92 |
| | ≥140 | 0,60 | 0,68 | 0,76 | 0,83 | 0,91 | 0,97 |
| | ≥150 | 0,65 | 0,73 | 0,81 | 0,87 | 0,95 | 1,02 |
| | ≥160 | 0,68 | 0,76 | 0,85 | 0,93 | 1,02 | 1,06 |
| | ≥170 | 0,72 | 0,81 | 0,88 | 0,97 | 1,04 | 1,11 |
| | ≥180 | 0,76 | 0,84 | 0,94 | 1,03 | 1,10 | 1,18 |
| | ≥190 | 0,79 | 0,89 | 0,99 | 1,07 | 1,16 | 1,24 |
| | ≥200 | 0,83 | 0,94 | 1,02 | 1,12 | 1,22 | 1,31 |
| | ≥210 | 0,87 | 0,96 | 1,07 | 1,18 | 1,29 | 1,37 |
| | ≥220 | 0,90 | 1,01 | 1,12 | 1,23 | 1,35 | 1,41 |
| | ≥230 | 0,94 | 1,06 | 1,17 | 1,27 | 1,38 | 1,47 |
| ≥240 | 0,96 | 1,08 | 1,20 | 1,32 | 1,44 | 1,54 | |
| ≥250 | 1,00 | 1,13 | 1,25 | 1,38 | 1,50 | 1,60 | |

The performance of the product identified above is in conformity with the set of declared performances. This declaration of performance is issued, in accordance with Regulation (EU) Nr. 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Dipl.-Wirtsch.-Ing. F. Maiwald
(Technical Management)

Melle, March 7th 2019

