



Certificate of constancy of performance

0402 - CPR - SC0051-14

In compliance with *Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011* (the Construction Products Regulation or CPR), this certificate applies to the construction product

Natural smoke and heat exhaust ventilator

as specified in appendix to this certificate,
for use in smoke and heat control systems

Product name: Solus Single Leaf

produced by or for

Lareine Engineering Ltd
Unit 1, Armadale Ind Est
Armadale, West Lothian EH48 2ND
United Kingdom

and produced in the manufacturing plant

same as above

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in annex ZA of the standard

EN 12101-2:2003

under system 1 for the performances set out in this certificate are applied and that

the construction product fulfils all the prescribed requirements for these performances.

This certificate was first issued on 2015-03-12 and will remain valid as long as the test methods and/or factory production control requirements included in the harmonised standard, used to assess the performance of the declared essential characteristics, do not change, and the construction product, and the manufacturing conditions in the plant are not modified significantly, unless suspended or withdrawn by the product certification body.

2015-03-12

SP Technical Research Institute of Sweden
Certification, Notified Body No. 0402

Lennart Aronsson
Product Certification Manager

Martin Tillander
Certification officer



Certificate of constancy of performance

0402 - CPR - SC0051-14 appendix

Natural smoke and heat exhaust ventilator, *Solus Single Leaf*

For use in smoke and heat control systems, in construction works.

Intended for smoke and heat exhaust ventilation under fire conditions.

A single flap with hinges, the flap is made of profiles and sheets in aluminium, and is insulated with 140 mm thick insulation. The upstand is made of profiles and sheets in aluminium, and is insulated with 50 mm thick insulation.

The ventilator is not equipped with wind deflectors.

The ventilator is for roof mounting.

Specifications:

| | |
|--------------------------------------|--------------------------------------|
| Length (throat) | 1 050 - 1 800 mm |
| Width (throat) | 1 050 - 1 500 mm |
| Upstand height (above roof) | 300 mm |
| Number of hinges | 2 |
| Opening angle (fire opening) | 142° |
| Installation angle | 0° |
| Opening mechanism | Rotatory electric actuator |
| Opening mechanism, supplier and type | Jofo Pneumatic GmbH, GMTJ - NW 1 500 |

Performance/Classification:

| | |
|-------------------------|---|
| Aerodynamic free area | $C_v = 0,40$ (According to EN 12101-2:2003, Annex B, B.1) |
| Reliability | Re 100 |
| Snow load | SL 500 |
| Low ambient temperature | T(-05) |
| Wind load | WL 1 500 |
| Resistance to heat | B 300 |
| Reaction to fire | F |