



# CERTIFIKAT

## Certificate of constancy of performance

**0402 - CPR - SC0333-11**

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: DK 240**

produced by or for

**Optilite A/S**  
**Bjerrevej 138**  
**DK-8700 HORSENS**  
**Denmark**

and produced in the manufacturing plant

**same as above**

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

**EN 12101-2:2003**

under system 1 are applied and that

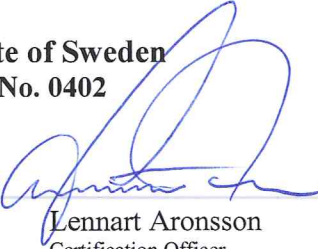
**the product fulfils all the prescribed requirements set out above.**

This certificate was first issued on 2011-04-20 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 characteristics, do not change, and the product, and the manufacturing conditions in the plant are not modified significantly.

Borås 2013-12-17

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

  
Lennart Månsson  
Certification Manager

  
Lennart Aronsson  
Certification Officer

**SP Technical Research Institute of Sweden**

Postal address Phone / Fax Reg. number E-mail / Internet  
Box 857 +46 10 516 50 00 556464-6874 info@sp.se  
SE-501 15 Borås +46 33 13 55 02 www.sp.se  
SWEDEN

This is issue 2. 3P05579  
Swedish Notified Bodies are appointed by SWEDAC, the Swedish Board for Accreditation and Conformity Assessment, under the terms of Swedish legislation.  
This certificate may not be reproduced other than in full, except with the prior written approval by SP.



### Natural smoke and heat exhaust ventilator, *DK 240*

For use in smoke and heat control systems, in construction works.  
Dual purpose ventilator, intended for comfort ventilation as well as smoke and heat exhaust ventilation under fire conditions.

Dome shaped flap made of multiwall polycarbonate, thickness 10-20 mm.

Frame of wood, thickness  $\geq 60$  mm, with or without insulation.

The ventilator can be equipped with or without wind deflectors, having a height of 375-425 mm.

The ventilator is for installation as a part of a continuous roof light.

The ventilator is for roof mounting, and is tested with and without side wind.

#### Specifications:

Opening of the ventilator	
Length	2 400 mm
Width	1 600 - 2 400 mm
Frame height (above roof)	300 mm
Opening mechanism	Electrical
Opening mechanism, supplier and type	Actulux A/S, SA Power double

#### Performance/classification:

Aerodynamic free area	See table 1
Reliability	Re 50
Snow load	SL 800
Low ambient temperature	T(-15)
Wind load	WL 1 500
Resistance to heat	B 300

#### Reaction to fire classification:

Wooden frame	D-s2,d0
Polycarbonate	B-s1,d0

Table 1,  $C_v$  values

Length x Width (mm)	Height of windshield (mm)	Without windshield ( $C_v$ )	With windshield ( $C_v$ )
2 400 x 1 600	375	0,13	0,65
2 400 x 2 000	400	0,12	0,66
2 400 x 2 400	425	0,11	0,66