



Declaration of performance OPTIMA

Declaration of performance NO. 1396-CPR-2013/OPT

Product: OPTIMA
Type: 60-4 through 250-10

Natural smoke and heat exhaust ventilators (NSHEV) intended to be installed in smoke and heat control systems in buildings

Manufacturer: Brakel Aluminium b.v.
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System: **System 1**

Notified factory production control certification body No. 1396 FIRES, Slovakia performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and evaluation of factory production control and issued the certificate of conformity of the factory production control.

FIRES has distributed the following reports:

Definition	Reportnr
Certificate Optima	1396-CPD-0064
Classification report	FIRES-JR-104-12-NURE
Heat exposure B300	FIRES-FR-136-12-AUNE
	FIRES-FR-137-12-AUNE
	FIRES-FR-138-12-AUNE
	FIRES-FR-139-12-AUNE
	FIRES-FR-140-12-AUNE
Aerodynamic (B)	FIRES-AT-012-12-AUNE
	FIRES-AT-013-12-AUNE
	FIRES-AT-014-12-AUNE
Reliability (C)	FIRES-MP-028-12-AUNE
	FIRES-MP-029-12-AUNE
	FIRES-MP-030-12-AUNE
	FIRES-MP-031-12-AUNE
Snowload (D)	FIRES-MP-028-12-AUNE
	FIRES-MP-029-12-AUNE
	FIRES-MP-030-12-AUNE
	FIRES-MP-031-12-AUNE
SL + T (D+E)	FIRES-MP-028-12-AUNE
	FIRES-MP-029-12-AUNE
	FIRES-MP-030-12-AUNE
	FIRES-MP-031-12-AUNE
Windload (F)	FIRES-MP-028-12-AUNE
	FIRES-MP-029-12-AUNE
	FIRES-MP-030-12-AUNE
	FIRES-MP-031-12-AUNE
Windload (F)	Test report nr: 169/2012/V
Reaction to fire	FIRES-CR-118-13-AUPE
EN 13501-1	FIRES-CR-045-13-AUPE
	FIRES-RF-020-13-AUNE
	FIRES-RF-023-13-AUNE
	FIRES-RF-059-13-AUNE
	FIRES-RF-060-13-AUNE
	FIRES-RF-061-13-AUNE
	FIRES-RF-062-13-AUNE

Definition	Reportnr
Factory control (FPC)	C1396/12/0008/4203/SC



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Declared performance:

Essential characteristics	Performance	Harmonised technical specification
Nominal activation conditions/ sensitivity, as: -Initiation device -Opening mechanism -Inputs and outputs	Pass Pass Pass	EN 12101-2: 2003
Response delay (response time), as: -Reliability -Opening under (snow, wind) load -Low ambient temperature -Fire performance	≤ 60 s	
Operational reliability, as: -Reliability	Re 1000 DP*	
Effectiveness of smoke/hot gas extraction, as: -Aerodynamic free area	See reports FIRES-AT-012-12-AUNE FIRES-AT-013-12-AUNE FIRES-AT-014-12-AUNE	
Performance parameters under fire conditions, as: -Resistance to heat -Mechanical stability -Reaction to fire	B30030 Pass B-s2,d0	
Ability to open under environmental conditions, as: -Opening under load -Low ambient temperature -Stability under wind load -Resistance to wind-induced vibration (where included)	SL 750 P2B/ PB/ M24 SL 250 PB FS T(-15) WL 1500 Pass	
Durability	Pass	

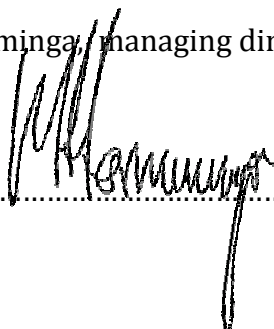
DP* = Natural ventilation and Fire ventilation (10.000x + 1000x)

De performance of the Optima 60-4 through 250-10 is in conformity with the declared performance here above.

This declaration of performance is issued under the sole responsibility of Brakel Aluminium and contains 2 pages:

Signed for and on behalf of Brakel Aluminium by:

M. Homminga, managing director Brakel Aluminium b.v.



Uden, 27-6-2013

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