



## Declaration of performance Mono Therma / Duo Therma

### Declaration of performance NO. 0432-CPR-2013/MT/DT

**Product: Mono Therma / Duo Therma**  
**Type: 1010 through 2525**

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

Manufacturer: Brakel Aluminium b.v.  
Linie 48  
5405 AN Uden  
Tel: +31 413-338360  
Fax: +31 413-338361  
Email: [info@brakel.com](mailto:info@brakel.com)

System: **System 1**

Notified factory production control certification body No. 0432 MPA, Germany 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.

MPA has distributed the following reports:

Definition	Reportnr	Definition	Reportnr	Definition	Reportnr
Certificate Duo Therma	0432-CPD-210005850	Reliability (C)	1368-CPD-P-162/2006-C	Factory control (FPC)	Nr. 210004357-2012
Classification report	210003449-WB-KB		1368-CPD-P-104/2011-C		
	210005430-WB-KB		1368-CPD-P-166/2006-C		
	210005940-WB-KB		1368-CPD-P-182/2006-C		
Heat exposure B300	210003449-WB		1368-CPD-P-185/2006-C		
	210005940-WB	Snowload (D)	1368-CPD-P-163/2006-D		
	210005430-WB-KB		1368-CPD-P-163/2006-D exten		
Aerodynamic (B)	1368-CPD-P-303/2010-B		1368-CPD-P-167/2006-D		
	1368-CPD-P-127/2006-B		1368-CPD-P-167/2006-D exten		
	1368-CPD-P-128/2006-B		1368-CPD-P-183/2006-D		
	1368-CPD-P-129/2006-B		1368-CPD-P-183/2006-D exten		
	1368-CPD-P-130/2006-B		1368-CPD-P-186/2006-D		
	1368-CPD-P-132/2006-B	SL + T (D+E)	2011-Efectis-R0587(rev1)		
	1368-CPD-P-131/2006-B		2011-Efectis-R0587(rev1)		
	1368-CPD-P-133/2006-B		2011-Efectis-R0587(rev1)		
	1368-CPD-P-134/2006-B	Temperature (E)	1368-CPD-P-164/2006-E		
	1368-CPD-P-135/2006-B	Windload (F)	1368-CPD-P-165/2006-F		
	1368-CPD-P-106/2011-B		1368-CPD-P-168/2006-F		
			1368-CPD-P-184/2006-F		
			1368-CPD-P-187/2006-F		



## Declaration of Mono Therma / Duo Therma

### Declared performance:

Essential characteristics	Performance	Harmonised technical specification
<b>Nominal activation conditions/ sensitivity, as:</b> -Initiation device -Opening mechanism -Inputs and outputs	Pass Pass Pass	<b>EN 12101-2: 2003</b>
<b>Response delay (response time), as:</b> -Reliability -Opening under (snow, wind) load -Low ambient temperature -Fire performance	$\leq 60$ s	
<b>Operational reliability, as:</b> -Reliability	Re 300 DP* (P2B) Re 1000 DP* (M24, P2B FS)	
<b>Effectiveness of smoke/hot gas extraction, as:</b> -Aerodynamic free area	See reports 1368-CPD-P-303-2010-B 1368-CPD-P-127-2006-B 1368-CPD-P-128-2006-B 1368-CPD-P-129-2006-B 1368-CPD-P-130-2006-B 1368-CPD-P-131-2006-B 1368-CPD-P-132-2006-B 1368-CPD-P-133-2006-B 1368-CPD-P-134-2006-B 1368-CPD-P-135-2006-B 1368-CPD-P-106-2011-B	
<b>Performance parameters under fire conditions, as:</b> -Resistance to heat -Mechanical stability -Reaction to fire	B30030 Pass E	
<b>Ability to open under environmental conditions, as:</b> -Opening under load  -Low ambient temperature -Stability under wind load  -Resistance to wind-induced vibration (where included)	SL 1000 P2B SL 500 P2B FS SL 1100 M24 T(-15) WL 1584 P2B / M24 WL 1500 P2B FS Pass	
<b>Durability</b>	Pass	

DP\* = Natural ventilation and Fire ventilation (10.000x + 1000x or 300x)

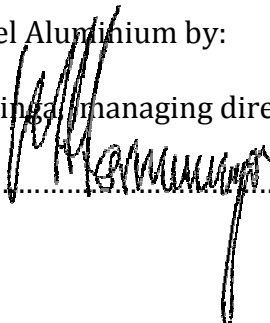
De performance of the Mono Therma / Duo Therma 1010 through 2525 is in conformity with the declared performance here above.

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, 25-4-2013

.....  


Page 2 of 2