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AB 054

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Sponsor	ALPHA Construction AG Bahnhofstrasse 21, 6301 Zug, Switzerland	
Agreement	43/3L007G18	

TEST METHOD:

EN 13823:2010 Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item

TEST SAMPLE (Data based on a statement Customer))	Manufacturer	ALPHA Construction AG	
	Tested sample	Insulatig paint PSC - 250T-HP	
	Data on the sampling plan	N/A	
	Method of sampling	N/A	
	Date and place of sampling	N/A	
	Sampling by	N/A	
Date of delivered samples	22.01.2017 (Registration number 53/18/N)		
Construction of the test sample	Samples in accordance with the 13823:2010 p. 5.1		
Description of substrate and fixing to the substrate	The product tested on the backing of plasterboard according to with EN 13238:2011		
Details of conditioning	Storage of the samples in accordance with PN-EN 13238:2011, p. 4.2.		
Date of testing	07.02.2018		
Deviations from EN 13823:2010	No		

Test conditions

Characteristics	Test sample 1	Test sample 2	Test sample 3
Volume flow of the exhaust [m ³ /s]	0,50-0,65	0,50-0,65	0,50-0,65
Ambient temperature [°C]	16,42	19,89	17,81
Ambient pressure [kPa]	98,71	98,70	98,71
Ambient relative humidity [%]	41,33	38,19	38,16

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Page 2nd**RESULTS**

No.	Characteristics	Test sample 1	Test sample 2	Test sample 3	Mean value	Requirements for class B-s1, d0 by EN 13501-1	Compliance with parameters
1.	FIGRA _{0,2 MJ} [W/s]	40,20	41,39	54,22	45,27	≤ 120 W/s	compliant
2.	FIGRA _{0,4 MJ} [W/s]	0,00	0,00	37,98	12,66	No requirements	non-compliant
3.	THR _{600s} [MJ] total amount of heat during 600 s	1,08	0,64	1,53	1,08	≤ 7,5 MJ	compliant
4.	SMOGRA [m ² /s ²]	0,00	0,00	0,00	0,00	≤ 180 m ² /s ²	compliant
5.	TSP _{600s} [m ²] total amount of smoke emitted during 600 s	21,47	24,75	22,47	22,90	≤ 200 m ²	compliant

OBSERVATIONS

No.	Characteristics	Test sample 1	Test sample 2	Test sample 3	Requirements for class B-s1, d0 by EN 13501-1	Compliance with parameters
6.	LFS – propagation of flame(+/-)	-	-	-	< Edge of sample	compliant
7.	Falling flaming droplets and particles burning no longer than 10 s after falling (+/-)	-	-	-	Do not occur	compliance
8.	Falling flaming droplets and particles burning no longer than 10 s after falling (+/-)	-	-	-	Do not occur	compliance
9.	Short-term flame on surface (+/-)	-	-	-	No requirements	non-compliant
10.	Falling part of the test piece (+/-)	-	-	-	No requirements	non-compliant
11.	The smoke is not coming to the hood (+/-)	-	-	-	No requirements	non-compliant
12.	Damage to the rear panels (+/-)	-	-	-	No requirements	non-compliant
13.	Deformation / destruction of the test piece (+/-)	-	-	-	No requirements	non-compliant
14.	Premature termination of the test (+/-)	-	-	-	No requirements	non-compliant

Comments and observations made during research:

Annexes

1. Photographs showing the attachment of the sample
2. Graphs of parameters for classifying samples 1
3. Graphs of parameters for classifying samples 2
4. Graphs of parameters for classifying samples 3

The test results are average value. The results apply to test sample, only. Without written agreement of laboratory the test report can be copy entirely only.

Kraków, 16.02.2018

Verification



Signature of entitled person

 Szca Kierownika Zakładu
 Gipsu i Chemii Budowlanej


 mgr inż. Michał Wiczorek

wydanie 5 (2013-12-20)