

SYCHTA LABORATORIUM Sp. J. Laboratorium Badań Palności Materiałów ul. Ofiar Stutthofu 90 72-010 Police



AB 1501

TEST REPORT

Order no:	order: 2 from 02.10.2018	Signature:	<mark>SL/Z-302/EN</mark> 13823/613a/2018	Police, 03.12.2018
<i>Tests</i> 1. 2.	methods: EN 13823+A1:2010. F excluding floorings exp EN ISO 11925-2:2010. impingement of flame -	Reaction to fire osed to the therm Reaction to fire t - Part 2: Single-fla	tests of building products – Building al attack by a single burning item. ests – Ignitability of products subjected ame source test.	g products d do direct
	Content of request:	Research accord	ling to EN 13501-1+A1:2010.	
	Sponsor:	Atrium Centrum ul. Gosławicka 2 Media Ikonos Sj ul. Gosławicka 2	Ploterowe Sp. z o.o. 2D, 45-446 Opole 5. z o. o. 2D, 45-446 Opole	
	Material:	Decorative self- and FPT 80 AIF	adhesive foil <mark>Profiflex De</mark> co FPT P80- R+	F
	Composition:	Self-adhesive m adhesive (weigh	aterials for decoration consist of PVC t 25 g/m ²) and liner paper.	foil, acrylic
Л	Manufacturer/supplier:	Atrium Centrum ul. Gosławicka 2 Media Ikonos Sj ul. Gosławicka 2	a Ploterowe Sp. z o.o. 2D, 45-446 Opole 5. z o. o. 2D, 45-446 Opole	
	Assessment:	The tested products to EN 13501-1+	act fulfils the requirements of B-s1,d0 A1:2010.	class according
The	e reprint and the copying	g: only with the ag	greement of Media Ikonos Sp. z o. o.	

Without the written consent of the Sychta Laboratory the report can be copied only in one piece.

Report applies only to the sample tested and is not necessarily indicative of the qualities of apparently identical or similar products.

Contain of test report: eight pages with signature and numbers.

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1. Reaction to fire tests of building products according to EN 13823

1.1. Heat release rate

Name of measured quantity	Unit		Specimen	A	Standard	
		1	2	3	Average	deviation
Duration of the test	S	1560	1560	1560	1560	0
Maximum heat release rate	kW	8,7	7,6	8,0	8,1	0,6
Total heat release THR	MJ	0,6	1,1	1,0	0,9	0,3
Total heat release in the first $600 \text{ s} - \text{THR}_{600s}$	MJ	<mark>0,</mark> 6	1,1	1,0	0,9	0,3
Fire growth rate index FIGRA _{0,2MJ}	$W \cdot s^{-1}$	71	97	101	90	16
Fire growth rate index FIGRA _{0,4MJ}	$W \cdot s^{-1}$	0	4 <mark>9</mark>	48	32	28

Remarks: Specimen no. 1 - Profiflex Deco FPT 80 AIR+, specimens no. 2 and 3 - Profiflex Deco FPT P80+.



Figure 1.1. Average heat release rate HRR_{av}(t), kW

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Figure 1.3. Fire growth rate index FIGRA(t), $W \cdot s^{-1}$





1.2. Smoke production rate

Name of measured quantity	Unit	Specimen 1 2 3			Average	Standard deviation
Maximum light attenuation	%	7,7	7,1	8,5	7,8	0,7
Max. smoke production rate SPR	$m^2 \cdot s^{-1}$	0	0	0	0,2	0,0
Total smoke production - TSP	m ²	40	<u>39</u>	50	43	6
Total smoke production in the first 600 s - TSP _{600s}	m ²	26	25	28	26	2
Smoke growth rate index SMOGRA	$m^2 \cdot s^{-2}$	0	0	0	0	0

Remarks: none.













Figure 1.6. Smoke growth rate index SMOGRA(t), $m^2 \cdot s^{-2}$



1.3. Lateral flame spread on the long specimen wing and laming particles or droplets

Name of macquired quantity	Unit	Specimen			
Name of measured quantity	Oint	1	2	3	
Lateral flame spread on the long specimen wing LFS < edge	YES/NO	NO	NO	NO	
Flaming particles or droplets	YES/NO time, s	NO	NO	NO	

1.4. Appearance of the specimen

Specimen 1











Specimen 3





2. Ignitability of products subjected do direct impingement of flame according to PN-EN ISO 11925-2

Surface ignition

Exposure time of pilot burner flame - 30 s

100	Unit	Specimen no./Test direction						F ' 1
Name of measured quantity		lenght direction			cross direction			Final
		1	2	3	4	5	6	Tesuit
Ignition of specimen	YES/NO	NO	NO	NO	-	-	-	NO
Ignition of paper	YES/NO	NO	NO	NO	-	-	-	NO
Flame spread > 150 mm	YES/NO	NO	NO	NO	-	1	-	NO
Time of arrival of the flame front 150 mm	S	-	-	-	-		-	-

Remarks: none.

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	0	2				
1	2	3				





3. Final findings

Test method	Parameter/Unit	Measured value	Critical value	Classification
PN-EN 13823	FIGRA, W/s	9 <mark>0</mark>	≤ 120	
	THR _{600s} , MJ	0,9	≤7,5	В
	LFS < edge	NO	No	
	SMOGRA, $m^2 \cdot s^{-2}$	0	≤ 30	e1
	TSP600s, m ²	26	≤ 50	51
	Flaming particles or droplets, time s	NO	NO	d0
PN-EN ISO 11925-2 Exposure time 30 s	Flame spread > 150 mm in 60 s, mm	NO	NO	_
	Ignition of paper	NO	NO	no d2

The tested product meets the requirements of **B-s1,d0** class according to EN 13501-1+A1:2010

4. Remaining required information with norm

Date of receipt of samples: 28.11.2018

System of the sampling: sponsor took and delivered samples.

- **Description of the samples:** Self-adhesive foils glued to steel sheet 0,8 mm thick marked as Profiflex Deco FPT P80 + and Profiflex Deco FPT 80 AIR +. 4 samples dimensions of 1500x1000 mm and 4 samples dimensions of 1500x500 mm (two sets for each type of foil) and 12 samples dimensions of 250x90 mm (6 of each type) were delivered by the sponsor.
- *Conditioning of specimens:* constant mass at a temperature of 23 ± 2 °C, and relative humidity of 50 ± 5 %.
- **Description of the substrate and fixing to the substrate:** Samples were glued to the standard metal substrate of classes A1 according PN-EN 13238: 2011 section 5.3 (steel sheet density $7850 \pm 50 \text{ kg/m}^3$ and thickness of $0.8 \pm 0.2 \text{ mm}$).
- **Declaring:** The test results rate to the behaviour of the test specimens under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the products in use.

Operator

dr hab. Zvgmunt Svchta

mgr inż. Andrzej Sychta

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Date and place of test : 30.11.2018, Police