



Centrum stavebního inženýrství a.s.

Fire Technical Laboratory

AUTHORIZED
BODY No. 212

NOTIFIED
BODY No. 1390

CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE WITH ČSN EN 13501-1+A1:2010

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Product name: *SPM handrails/corner protection
products - product family 3*

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1. DETAILS OF CLASSIFIED PRODUCT

Nature and end use application:

The classification of *SPM handrails/corner protection products - product family 3* is valid for the following end use application:

Handrail for interiors, corner protection products.

Description:

SPM handrails/corner protection products - product family 3 includes products listed in Table 1. Performer 2, Starline with PVC sheath and Cornea were selected as the critical representative products containing the highest amount of organic matter per square meter (after application). Composition of tested products is described in the test reports in support of the classification listed in clause 2.

Table 1: Products included in the product family 3:

Product name	Composition
Performer 2	PVC/Al
Starline with PVC sheath	PVC/Al + PVC stripe
Anodised Starline	Al + PVC stripe
Decowood Starline	Al + PVC stripe
Escort with PVC sheath	PVC/Al
Decowood Escort	PVC/Al
Bedkit	PVC/Al
Cornea	PVC/Al
Corneaflex	PVC/Al
Capcorn	PVC/Al

2. TEST REPORTS AND TEST RESULTS IN SUPPORT OF THIS CLASSIFICATION

Test reports

Name of laboratory	Name of sponsor	Test report ref. no.	Test method
CSI a.s., Fire technical laboratory	SPM International SAS	15452 – 1/3 15452 – 2/3 15453 – 1/3 15453 – 2/3	ČSN EN ISO 11925-2
		15452 – 3/3 15453 – 3/3 15809	ČSN EN 13823

Test results:

Test method	Parameter	Number of test	Results	
			Continuous parameter mean (m)	Compliance parameters
ČSN EN ISO 11925-2 ⁽¹⁾	$F_s \leq 150$ mm ignition of the filter paper	6	yes	yes (B to D)
		6	no	no (d0)
ČSN EN ISO 11925-2 ⁽²⁾	$F_s \leq 150$ mm ignition of the filter paper	6	yes	yes (B to D)
		6	no	no (d0)
ČSN EN ISO 11925-2 ⁽³⁾	$F_s \leq 150$ mm ignition of the filter paper	6	yes	yes (B to D)
		6	no	no (d0)
ČSN EN ISO 11925-2 ⁽⁴⁾	$F_s \leq 150$ mm ignition of the filter paper	6	yes	yes (B to D)
		6	no	no (d0)
ČSN EN 13823 ⁽⁵⁾	$FIGRA_{0,2 MJ}$ (W/s)	3	55,3	≤ 120 (B)
	LFS < edge	3	yes	yes (B, C)
	$THR_{600 s}$ (MJ)	3	2,7	$\leq 7,5$ (B)
	$SMOGRA$ (m^2/s^2)	3	11,9	≤ 30 (s1)
	$TSP_{600 s}$ (m^2)	3	82,0	≤ 200 (s2)
ČSN EN 13823 ⁽⁶⁾	flaming droplets / particles	3	no	no (d0)
	$FIGRA_{0,2 MJ}$ (W/s)	3	8,9	≤ 120 (B)
	LFS < edge	3	yes	yes (B, C)
	$THR_{600 s}$ (MJ)	3	1,2	$\leq 7,5$ (B)
	$SMOGRA$ (m^2/s^2)	3	0	≤ 30 (s1)
ČSN EN 13823 ⁽⁷⁾	$TSP_{600 s}$ (m^2)	3	31,3	≤ 50 (s1)
	flaming droplets / particles	3	no	no (d0)
	$FIGRA_{0,2 MJ}$ (W/s)	1	88,5	≤ 120 (B)
	LFS < edge	1	yes	yes (B, C)
	$THR_{600 s}$ (MJ)	1	2,6	$\leq 7,5$ (B)
ČSN EN 13823 ⁽⁷⁾	$SMOGRA$ (m^2/s^2)	1	11,8	≤ 30 (s1)
	$TSP_{600 s}$ (m^2)	1	59,8	≤ 200 (s2)
	flaming droplets / particles	1	no	no

(1): Performer 2, surface flame attack, exposition = 30 s
(2): Performer 2, edge flame attack, exposition = 30 s
(3): Starline with PVC sheath, surface flame attack, exposition = 30 s
(4): Starline with PVC sheath, edge flame attack, exposition = 30 s
(5): Performer 2
(6): Starline with PVC sheath
(7): Cornea

3. CLASSIFICATION AND DIRECT FIELD OF APPLICATION**Reference and direct field of application**

This classification has been carried out in accordance with the clause 11.6, 11.9.3. and 11.10.1 of ČSN EN 13501-1+A1:2010.

Classification

The product *SPM handrails/corner protection products - product family 3*, in relation to its reaction to fire behaviour is classified:

B

The additional classification in relation to smoke production is:

s2

The additional classification in relation to flaming droplets/particles is:

d0

The format of the reaction to fire classification for *SPM handrails/corner protection products - product family 3* is:

Fire behaviour		Smoke production			Flaming droplets	
B	-	s	2	,	d	0

Reaction to fire classification: B-s2, d0

Field of application

This classification is also valid for the following product parameters:

- minimum thickness of PVC: 3,5 mm
- maximum width of handrail: 140 mm

This classification is valid for the products listed in clause 1, Table 1

This classification is valid for the following end use conditions:

- handrail fixed on the substrates of reaction to fire class A1 or A2-s1, d0
- corner protection products fixed on the substrates of reaction to fire class A1 or A2-s1, d0

4. LIMITATIONS


Restrictions

This classification report is valid, provided that the technical specifications of the product will not be changed.

Warning

This document does not represent type approval or certification of the product.

Prepared:



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