



# Centrum stavebního inženýrství a.s.

Fire Technical Laboratory

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BODY No. 212

NOTIFIED  
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## CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE WITH EN 13501-1:2007

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**Product name** : PVC PROFILE

**Classification  
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## 1. DETAILS OF CLASSIFIED PRODUCT

### Nature and end use application:

The product *PVC PROFILE* is defined as a „type of classified product“. Its classification is valid for the following end use application:

Unplasticized polyvinylchloride (PVC-U) profiles for the fabrication of windows and doors according to EN 13608

### Description:

The product *PVC PROFILE* is fully described in the test reports in support of the classification listed in clause 2.

## 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
ERA YÖNETİM DANIŞMANLIĞI HİZMETLERİ A.Ş.	EGE PROFİL Ticaret ve San. A.Ş.	FTST08050 FTST08051	TS EN ISO 11925-2
ERA YÖNETİM DANIŞMANLIĞI HİZMETLERİ A.Ş.	EGE PROFİL Ticaret ve San. A.Ş.	FTST08047	TS EN 13823

### Measured values

Test method	Parameter	Number of test	Results	
			Continuous parameter mean (m)	Compliance parameters
TS EN ISO 11925-2 surface flame attack exposition = 30 s	$F_s \leq 150$ mm(1) ignition of filter paper(1)	6	(-)	yes
	$F_s \leq 150$ mm(2) ignition of filter paper(2)	6	(-)	no
	$F_s \leq 150$ mm(1) ignition of filter paper(1)	6	(-)	yes
	$F_s \leq 150$ mm(2) ignition of filter paper(2)	6	(-)	no
TS EN 13823	FIGRA <sub>0,4 MJ</sub> (W/s)	3	220,1	(-)
	LFS > edge	3	(-)	no
	THR <sub>600 s</sub> (MJ)	3	14,3	(-)
	SMOGR <sub>A</sub> (m <sup>2</sup> /s <sup>2</sup> )	3	94,6	(-)
	TSP <sub>600 s</sub> (m <sup>2</sup> )	3	1007,9	(-)
	flaming droplets / particles (s)	3	>60	yes

(-): not applicable

(1): surface flame attack

(2): edge flame attack

**Test results**

Test method	Parameter	Parameter	Criterion compliance
TS EN ISO 11925-2	$F_s \leq 150$ mm Ignition of filter paper	yes	yes (B to D)
		no	no (B to D)

**Test results**

Test method	Parameter	Mean value	Criterion compliance
TS EN 13823	FIGRA <sub>0,4MJ</sub> [W/s]	220,1	$\leq 250$ (C)
	THR <sub>600s</sub> [MJ]	14,3	$\leq 15$ (C)
	LFS < edge	yes	yes (C)
	SMOGRA [m <sup>2</sup> /s <sup>2</sup> ]	94,6	$\leq 180$ (s2)
	TSP <sub>600s</sub> [m <sup>2</sup> ]	1007,9	$> 200$ (s3)
	Burning time of flaming droplets/particles [s]	$>60$	$>10$ (d2)

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

This classification has been carried out in accordance with the clauses 11.5, 11.9.4 and 11.10.1 of EN 13501-1:2007.

**Classification**

The product *PVC PROFILE*, in relation to its reaction to fire behaviour is classified:

**C**

The additional classification in relation to smoke production is:

**s3**

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

**d2**



The format of the reaction to fire classification for *PVC PROFILE* is:

Fire behaviour		Smoke production			Flaming droplets	
C	-	s	3	,	d	2

**Reaction to fire classification: C-s3, d2**

#### Field of application

This classification is valid for the following product parameters:

- mass per 1 m  $\leq$  1750 g/m
- total mass per unit area  $\leq$  15,6 kg/m<sup>2</sup>

This classification is valid for the following end use conditions:

- product fixed directly on the substrates of reaction to fire class A1 or A2

## 4. LIMITATIONS

#### Restrictions

This classification report is valid until 5<sup>th</sup> December 2013, 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.

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