



ERA YÖNETİM DANIŞMANLIĞI HİZMETLERİ A.Ş.

ERA Fire Test Laboratory



Accredited Body  
No: AB-0330-T

Notified Body  
No: 2184

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

**Sponsor** : İZOPOLİ YAPI ELEMANLARI TAAHHÜT SAN. ve TİC.  
A.Ş. Çırağan Cad. No:97 Ortaköy,  
İSTANBUL / TURKEY

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**Product name** : İZOPOLİ ROOF PANELS

**Classification  
report No.** : ERA - 10 - 016

**Issue Number** : 1/2

**Date of issue** : 22.03.2010

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## 1. INTRODUCTION

This classification report defines the classification assigned to “*IZOPOLI ROOF PANELS*” in accordance with the procedures given in EN 13501-1:2007

## 2. DETAILS OF CLASSIFIED PRODUCT

### 2.1. Nature and end use application:

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

Sandwich panel products according to the EN 14509 standard:

Self supporting double skin metal faced insulating panels – Factory made products - Specifications

### 2.2. Description:

The product *IZOPOLI ROOF PANELS* is fully described in the test reports in support of the classification listed in clause 3. The tested product has been selected as a representing product of the following product group:

- XL PANEL
- EKO PANEL
- PRESTIGE PANEL

## 3. TEST REPORTS AND TEST RESULTS IN SUPPORT OF CLASSIFICATION

### 3.1. Test reports

Name of laboratory	Name of sponsor	Test report ref. no.	Test method
ERA YÖNETİM DANIŞMANLIĞI HİZMETLERİ A.Ş.	İZOPOLİ YAPI ELEMENLARI TAAHHÜT SAN. ve TİC. A.Ş.	FTST09189	TS EN 13823
		FTST10040	
		FTST09193	TS EN ISO 11925-2
		FTST09197	
		FTST10042	
		FTST10044	

3.2. Test results

Test method	Parameter	Number of test	Results	
			Continuous parameter mean (m)	Compliance parameters
TS EN ISO 11925-2 Flame exposition: 30 s	$F_s \leq 150$ mm(1) ignition of filter paper (1)	6	(-)	No
		6	(-)	No
	$F_s \leq 150$ mm(2) ignition of filter paper (2)	6	(-)	No
		6	(-)	No
TS EN 13823	FIGRA <sub>0,2 MJ</sub> (W/s) <sup>(a)</sup>	3	92,5	(-)
	LFS > edge <sup>(a)</sup>	3	(-)	No
	THR <sub>600 s</sub> (MJ) <sup>(a)</sup>	3	2,6	(-)
	SMOGRA (m <sup>2</sup> /s <sup>2</sup> ) <sup>(a)</sup>	3	7,1	(-)
	TSP <sub>600 s</sub> (m <sup>2</sup> ) <sup>(a)</sup>	3	50,0	(-)
	Flaming droplet(s)/particle (s) <sup>(a)</sup>	3	(-)	No
	FIGRA <sub>0,2 MJ</sub> (W/s) <sup>(b)</sup>	3	40,6	(-)
	LFS > edge <sup>(b)</sup>	3	(-)	No
	THR <sub>600 s</sub> (MJ) <sup>(b)</sup>	3	2,8	(-)
	SMOGRA (m <sup>2</sup> /s <sup>2</sup> ) <sup>(b)</sup>	3	5,9	(-)
	TSP <sub>600 s</sub> (m <sup>2</sup> ) <sup>(b)</sup>	3	42,9	(-)
	Flaming droplet(s)/particle (s) <sup>(b)</sup>	3	(-)	No
(-): Not applicable (1): Surface flame attack (2): Edge flame attack		(a): for XL 40 sample (b): for XL 100 sample		

Test method	Parameter	Parameter	Compliance parameters
TS EN ISO 11925-2	$F_s \leq 150$ mm ignition of filter paper	No No	No (B - D) No (d0)
TS EN 13823	FIGRA <sub>0,2MJ</sub> [W/s] <sup>(a)</sup>	92,5	≤ 120 (B)
	THR <sub>600s</sub> [MJ] <sup>(a)</sup>	2,6	≤ 4,0 (B)
	LFS < edge <sup>(a)</sup>	yes	Yes (B)
	SMOGRA [m <sup>2</sup> /s <sup>2</sup> ] <sup>(a)</sup>	7,1	≤ 30 (s1)
	TSP <sub>600s</sub> [m <sup>2</sup> ] <sup>(a)</sup>	50,0	≤ 50 (s1)
	Burning time of flaming droplets/particles [s] <sup>(a)</sup>	None	No (d0)
	FIGRA <sub>0,2MJ</sub> [W/s] <sup>(b)</sup>	40,6	≤ 120 (B)
	THR <sub>600s</sub> [MJ] <sup>(b)</sup>	2,8	≤ 4,0 (B)
	LFS < edge <sup>(b)</sup>	yes	yes (B)
	SMOGRA [m <sup>2</sup> /s <sup>2</sup> ] <sup>(b)</sup>	5,9	≤ 30 (s1)
	TSP <sub>600s</sub> [m <sup>2</sup> ] <sup>(b)</sup>	42,9	≤ 50 (s1)
Burning time of flaming droplets/particles [s] <sup>(b)</sup>	None	No (d0)	
(-): Not applicable (1): Surface flame attack (2): Edge flame attack		(a): for XL 40 sample (b): for XL 100 sample	

#### 4. CLASSIFICATION AND FIELD OF APPLICATION

##### 4.1. Reference of classification

This classification has been carried out in accordance with the clauses 11.6, 11.9.2 and 11.10.1. of EN 13501-1:2007

##### 4.2. Classification

The product, *IZOPOLI ROOF PANELS*, in relation to its reaction to fire behaviour is classified:

**B**

The additional classification in relation to smoke production is:

**s1**

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

**d0**

The format of the reaction to fire classification for *IZOPOLI ROOF PANELS* is:

Fire behaviour		Smoke production			Flaming droplets	
B	-	s	1	,	d	0

**Reaction to fire classification: B-s1, d0**

##### 4.3. Field of application

This classification is valid for the following product parameters:

For core material (IPN Foam):

Density: 40 ±6 kg/m<sup>3</sup>

For panel:

Nominal thickness > 40 mm

Surface paint coating:

Thickness ≤ 25 µm

For galvanized steel coating:

Thickness: 0,5 to 1,0 mm

The classification is valid for the following end use applications:

- Product directly fixed without backing boards with vertical joints and inner/outer corner "L" profiles.
- Black, non-combustible silicone seal Soudal was used in the joints for assembly of samples

## 5. LIMITATIONS

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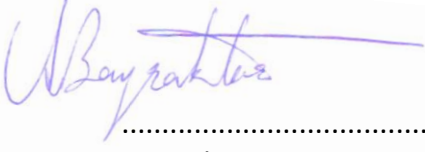
### 5.1. Restrictions

This classification report is valid until 22<sup>nd</sup> of March 2015, provided that the technical specifications of the product will not be changed.

### 5.2. Warning

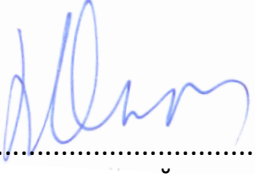
This classification document does not represent type approval or certification of the product.

Signed:

  
.....  
Ali BAYRAKTAR



Approved:

  
.....  
Onur DAĞ  
Laboratory Manager