

Fire Test Laboratory

Accredited Body

No: AB-0556-T

**CLASSIFICATION OF REACTION TO FIRE IN
ACCORDANCE WITH EN 13501-1:2007+A1:2009**

Sponsor	: ODE YALITIM SANAYİ VE TİCARET A.Ş. Piyale Paşa Bulvarı Pim 3 İş Merkezi 34384 K-12 Okmeydanı, İSTANBUL/TURKEY
Prepared by	: EFFECTİS ERA AVRASYA TEST VE BELGELENDİRME A.Ş. TOSB TAYSAD Organize San. Böl. 1. CD. 15. Yol No: 1 Şekerpınar - Çayırova KOCAELİ, TURKEY
Product name	: <i>ODE R-FLEX RUBBER HEAT INSULATION BOARDS</i>
Classification report No.	: ERA - 16 - 125
Issue Number	: 1/2
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This classification report consists of 6 pages and may only be used or reproduced in its entirety.

1. INTRODUCTION

This classification report defines the classification assigned to "ODE R-FLEX RUBBER HEAT INSULATION BOARDS" in accordance with the procedures given in EN 13501-1:2007+A1:2009

2. DETAILS OF CLASSIFIED PRODUCT

2.1. General:

ODE R-FLEX RUBBER HEAT INSULATION BOARDS is defined as a "type of classified product". Its classification is valid for the following end use application:

EN 14304:2009+A1:2013 - Self-supporting double skin metal faced insulating panels - Factory made products – Specifications

2.2. Description:

ODE R-FLEX RUBBER HEAT INSULATION BOARDS is fully described in the test reports in support of the classification listed in clause 3.

Tested product types:

Manufactured Plant: ODE YALITIM SAN. TİC. A.Ş.

Velimeşe Organize Sanayi Bölgesi 111.Sokak No:6/1 Ergene, TEKİRDAĞ/TURKEY

Product name	Density [kg/m ³]	Thickness (mm)	Colour	Coating
ODE R-FLEX PRM	65	6	Black	None
ODE R-FLEX PRM		50		
ODE R-FLEX STD		6		
ODE R-FLEX STD		40		

3. REPORTS AND RESULTS IN SUPPORT OF CLASSIFICATION

3.1. Reports

Name of laboratory	Name of sponsor	Test report ref. no.	Test method
EFFECTİS ERA AVRASYA TEST VE BELGELENDİRME A.Ş.	ODE YALITIM SANAYİ VE TİCARET A.Ş.	FTST16504	EN 13823:2010+A1:2014
		FTST16505	EN ISO 11925-2:2010
		FTST16506	EN ISO 11925-2:2010
		FTST16507	EN 13823:2010+A1:2014
		FTST16508	EN ISO 11925-2:2010
		FTST16509	EN ISO 11925-2:2010
		FTST16510	EN 13823:2010+A1:2014
		FTST16511	EN ISO 11925-2:2010
		FTST16512	EN ISO 11925-2:2010
		FTST16513	EN 13823:2010+A1:2014
		FTST16514	EN ISO 11925-2:2010
		FTST16515	EN ISO 11925-2:2010



3.2. Results

Test method	Parameter	Number of test	Results	
			Continuous parameter mean (m)	Compliance parameters
TS EN ISO 11925-2 ^(a) Flame exposition: 30 s	$F_s \leq 150 \text{ mm}^{(1)}$ ignition of filter paper ⁽¹⁾	12	(-)	Yes
		12	(-)	No
	$F_s \leq 150 \text{ mm}^{(2)}$ ignition of filter paper ⁽²⁾	12	(-)	Yes
		12	(-)	No
TS EN 13823 ^(a)	FIGRA _{0,2 MJ} (W/s)	4	39,8	(-)
	LFS > edge	4	(-)	No
	THR _{600 s} (MJ)	4	1,9	(-)
	SMOGR (m ² /s ²)	4	379,8	(-)
	TSP _{600 s} (m ²)	4	104,3	(-)
	Flaming droplet(s)/particle (s)	4	(-)	No
TS EN ISO 11925-2 ^(b) Flame exposition: 30 s	$F_s \leq 150 \text{ mm}^{(1)}$ ignition of filter paper ⁽¹⁾	12	(-)	Yes
		12	(-)	No
	$F_s \leq 150 \text{ mm}^{(2)}$ ignition of filter paper ⁽²⁾	12	(-)	Yes
		12	(-)	No
TS EN 13823 ^(b)	FIGRA _{0,2 MJ} (W/s)	4	76,3	(-)
	LFS > edge	4	(-)	No
	THR _{600 s} (MJ)	4	2,2	(-)
	SMOGR (m ² /s ²)	4	640,9	(-)
	TSP _{600 s} (m ²)	4	437,4	(-)
	Flaming droplet(s)/particle (s)	4	(-)	No
TS EN ISO 11925-2 ^(c) Flame exposition: 30 s	$F_s \leq 150 \text{ mm}^{(1)}$ ignition of filter paper ⁽¹⁾	12	(-)	Yes
		12	(-)	No
	$F_s \leq 150 \text{ mm}^{(2)}$ ignition of filter paper ⁽²⁾	12	(-)	Yes
		12	(-)	No
TS EN 13823 ^(c)	FIGRA _{0,2 MJ} (W/s)	4	35,4	(-)
	LFS > edge	4	(-)	No
	THR _{600 s} (MJ)	4	1,6	(-)
	SMOGR (m ² /s ²)	4	390,3	(-)
	TSP _{600 s} (m ²)	4	105,7	(-)
	Flaming droplet(s)/particle (s)	4	(-)	No
TS EN ISO 11925-2 ^(d) Flame exposition: 30 s	$F_s \leq 150 \text{ mm}^{(1)}$ ignition of filter paper ⁽¹⁾	12	(-)	Yes
		12	(-)	No
	$F_s \leq 150 \text{ mm}^{(2)}$ ignition of filter paper ⁽²⁾	12	(-)	Yes
		12	(-)	No
TS EN 13823 ^(d)	FIGRA _{0,2 MJ} (W/s)	4	84,2	(-)
	LFS > edge	4	(-)	No
	THR _{600 s} (MJ)	4	2,0	(-)
	SMOGR (m ² /s ²)	4	626,8	(-)
	TSP _{600 s} (m ²)	4	397,9	(-)
	Flaming droplet(s)/particle (s)	4	(-)	No
(-): Not applicable		(a): for ODE R-FLEX PRM 6 mm thickness		
(1): Surface flame attack		(b): for ODE R-FLEX PRM 50 mm thickness		
(2): Edge flame attack		(c): for ODE R-FLEX STD 6 mm thickness		
		(d): for ODE R-FLEX STD 40 mm thickness		



Test method	Parameter	Parameter	Compliance parameters
TS EN ISO 11925-2 ^(a)	$F_s \leq 150$ mm ignition of filter paper	Yes No	Yes (B – D) No (d0)
TS EN 13823 ^(a)	FIGRA _{0,2MJ} [W/s]	39,8	≤ 120 (B)
	THR _{600s} [MJ]	1,9	≤ 7,5 (B)
	LFS < edge	yes	Evet (B)
	SMOGRA [m ² /s ²]	379,8	> 180 (s3)
	TSP _{600s} [m ²]	104,3	> 200 (s3)
	Burning time of flaming droplets/particles [s]	no	No (d0)
TS EN 13823 ^(b)	FIGRA _{0,2MJ} [W/s]	76,3	≤ 120 (B)
	THR _{600s} [MJ]	2,2	≤ 7,5 (B)
	LFS < edge	yes	Evet (B)
	SMOGRA [m ² /s ²]	640,9	> 180 (s3)
	TSP _{600s} [m ²]	437,4	> 200 (s3)
	Burning time of flaming droplets/particles [s]	no	No (d0)
TS EN ISO 11925-2 ^(b)	$F_s \leq 150$ mm ignition of filter paper	Yes No	Yes (B – D) No (d0)
TS EN 13823 ^(c)	FIGRA _{0,2MJ} [W/s]	35,4	≤ 120 (B)
	THR _{600s} [MJ]	1,6	≤ 7,5 (B)
	LFS < edge	evet	Evet (B)
	SMOGRA [m ² /s ²]	390,3	> 180 (s3)
	TSP _{600s} [m ²]	105,7	> 200 (s3)
	Burning time of flaming droplets/particles [s]	no	No (d0)
TS EN ISO 11925-2 ^(d)	$F_s \leq 150$ mm ignition of filter paper	Yes No	Yes (B – D) No (d0)
TS EN 13823 ^(d)	FIGRA _{0,2MJ} [W/s]	84,2	≤ 120 (B)
	THR _{600s} [MJ]	2,0	≤ 7,5 (B)
	LFS < edge	evet	Evet (B)
	SMOGRA [m ² /s ²]	626,8	> 180 (s3)
	TSP _{600s} [m ²]	397,9	> 200 (s3)
	Burning time of flaming droplets/particles [s]	no	No (d0)
(-): Not applicable		(a): for ODE R-FLEX PRM 6 mm thickness (b): for ODE R-FLEX PRM 50 mm thickness (c): for ODE R-FLEX STD 6 mm thickness (d): for ODE R-FLEX STD 40 mm thickness	



4. CLASSIFICATION AND FIELD OF APPLICATION

4.1. Reference of classification

This classification has been carried out in accordance with the clauses 111.6, 11.9.4 and 11.10.1 of EN 13501-1:2007+A1:2009.

4.2. Classification

ODE R-FLEX RUBBER HEAT INSULATION BOARDS, in relation to its reaction to fire behaviour is classified:

B

The additional classification in relation to smoke production is:

s3

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

d0

The format of the reaction to fire classification for *ODE R-FLEX RUBBER HEAT INSULATION BOARDS* is:

Fire behaviour		Smoke production			Flaming droplets	
B	-	s	3	,	d	0

Reaction to fire classification: B-s3,d0

4.3. Field of application

This classification is valid for the following product parameters:

Product name	Density [kg/m ³]	Thickness (mm)	Coating
ODE R-FLEX PRM	65	6	None
ODE R-FLEX PRM		50	
ODE R-FLEX STD		6	
ODE R-FLEX STD		40	

The classification is valid for the following end use applications

- Product directly fixed to the metal board substrates which have reaction to fire class A1.



5. LIMITATIONS

5.1 Restrictions

This classification report is valid provided that the technical specifications of product are within the limits in accordance with the field of application clause 4.3.

5.2 Warning

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

Signed:



Şahin SAKAT

Person in the charge of tests



Approved:



Onur DAĞ

Operation Manager