



ERA LABORATUVARLARI A.Ş.

ERA Fire Test Laboratory



Accredited Body  
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Notified Body  
No: 2184

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

**Sponsor** : AKTAV AKUSTİK MLZ. SAN ve TİC.A.Ş. Reşatbey  
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**Product name** : PARMEPHON CEILING TILE COATING COMPONENTS

**Classification  
report No.** : ERA - 14 - 057

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## 1. INTRODUCTION

This classification report defines the classification assigned to "PARMEPHON CEILING TILE COATING COMPONENTS" in accordance with the procedures given in EN 13501-1:2007+A1:2009.

## 2. DETAILS OF CLASSIFIED PRODUCT

### 2.1. General:

PARMEPHON CEILING TILE COATING COMPONENTS are defined as a "type of classified product".

EN 13964:2004 - Suspended ceilings - Requirements and test methods

### 2.2. Description:

PARMEPHON CEILING TILE COATING COMPONENTS are fully described in the test reports in support of the classification listed in clause 3.

Manufactured Plant: AKTAV AKUSTİK MLZ. SAN ve TİC.A.Ş.

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Tested product types:

Product Name	Density of glass wool [kg/m <sup>3</sup> ]	Thickness (mm)	Mass per unit area of adhesive (g/m <sup>2</sup> )	Mass per unit area of glass tissue (g/m <sup>2</sup> )	Mass per unit area of paint (g/m <sup>2</sup> )	Mass per unit area of coating fabric (g/m <sup>2</sup> )
Parmephon Advance Acoustic Ceiling Tile	95	20	40	50	-	180
Parmephon Polo Acoustic Ceiling Tile	95	15	25	50	-	180
Parmephon Snow Acoustic Ceiling Tile	95	20	30	50	-	180
Parmephon Snow Acoustic Canopy Tile	95	40	50	-	1800	180

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

#### 3.1. Reports

Name of laboratory	Name of sponsor	Test report ref. no.	Test method
ERA LABORATUVARLARI A.Ş.	AKTAV AKUSTİK MLZ. SAN ve TİC.A.Ş.	FTST14254	TS EN 13823
		FTST14255	TS EN ISO 1716
		FTST14256	TS EN 13823
		FTST14257	TS EN ISO 1716
		FTST14258	TS EN 13823
		FTST14259	TS EN ISO 1716
		FTST14260	TS EN 13823
	FTST14261	TS EN ISO 1716	
	İZOCAM TİC. SAN. ve A.Ş.	FTST11315	TS EN ISO 1716

#### 3.2. Results

Test method	Parameter	Number of test	Results	
			Continuous parameter mean (m)	Compliance parameters
TS EN ISO 1716 <sup>(1)</sup>	PCS (MJ/m <sup>2</sup> ) <sup>(a)</sup>	3	1,65	(-)
	PCS (MJ/m <sup>2</sup> ) <sup>(b)</sup>	3	0,23	(-)
	PCS (MJ/m <sup>2</sup> ) <sup>(c)</sup>	3	0,36	(-)
	PCS (MJ/kg) <sup>(d)</sup>	3	1,65	(-)
	PCS (MJ/kg) <sup>(e)</sup>	3	2,73	(-)
TS EN 13823 <sup>(1)</sup>	FIGRA <sub>0,2 MJ</sub> (W/s)	3	39,1	(-)
	LFS > kenar	3	(-)	No
	THR <sub>600 s</sub> (MJ)	3	0,7	(-)
	SMOGRA (m <sup>2</sup> /s <sup>2</sup> )	3	16,6	(-)
	TSP <sub>600 s</sub> (m <sup>2</sup> )	3	25,4	(-)
	Flaming droplet(s)/particle (s)	3	(-)	No
TS EN ISO 1716 <sup>(2)</sup>	PCS (MJ/m <sup>2</sup> ) <sup>(a)</sup>	3	1,03	(-)
	PCS (MJ/m <sup>2</sup> ) <sup>(b)</sup>	3	0,23	(-)
	PCS (MJ/m <sup>2</sup> ) <sup>(c)</sup>	3	0,29	(-)
	PCS (MJ/kg) <sup>(d)</sup>	3	1,65	(-)
	PCS (MJ/kg) <sup>(e)</sup>	3	2,78	(-)
TS EN 13823 <sup>(2)</sup>	FIGRA <sub>0,2 MJ</sub> (W/s)	3	105,4	(-)
	LFS > kenar	3	(-)	No
	THR <sub>600 s</sub> (MJ)	3	0,8	(-)
	SMOGRA (m <sup>2</sup> /s <sup>2</sup> )	3	23,4	(-)
	TSP <sub>600 s</sub> (m <sup>2</sup> )	3	26,2	(-)

	Flaming droplet(s)/particle (s)	3	(-)	No
TS EN ISO 1716 <sup>(3)</sup>	PCS (MJ/m <sup>2</sup> ) <sup>(a)</sup>	3	1,23	(-)
	PCS (MJ/m <sup>2</sup> ) <sup>(b)</sup>	3	0,23	(-)
	PCS (MJ/m <sup>2</sup> ) <sup>(c)</sup>	3	0,74	(-)
	PCS (MJ/kg) <sup>(d)</sup>	3	1,65	(-)
	PCS (MJ/kg) <sup>(e)</sup>	3	2,71	(-)
TS EN 13823 <sup>(3)</sup>	FIGRA <sub>0,2 MJ</sub> (W/s)	3	38,0	(-)
	LFS > kenar	3	(-)	No
	THR <sub>600s</sub> (MJ)	3	0,8	(-)
	SMOGRA (m <sup>2</sup> /s <sup>2</sup> )	3	5,8	(-)
	TSP <sub>600s</sub> (m <sup>2</sup> )	3	10,0	(-)
	Flaming droplet(s)/particle (s)	3	(-)	No
TS EN ISO 1716 <sup>(4)</sup>	PCS (MJ/m <sup>2</sup> ) <sup>(a)</sup>	3	2,06	(-)
	PCS (MJ/m <sup>2</sup> ) <sup>(c)</sup>	3	1,48	(-)
	PCS (MJ/kg) <sup>(d)</sup>	3	1,65	(-)
	PCS (MJ/kg) <sup>(e)</sup>	3	2,00	(-)
	PCS (MJ/m <sup>2</sup> ) <sup>(f)</sup>	3	2,24	(-)
TS EN 13823 <sup>(4)</sup>	FIGRA <sub>0,2 MJ</sub> (W/s)	3	3,6	(-)
	LFS > kenar	3	(-)	Hayır
	THR <sub>600s</sub> (MJ)	3	1,3	(-)
	SMOGRA (m <sup>2</sup> /s <sup>2</sup> )	3	5,7	(-)
	TSP <sub>600s</sub> (m <sup>2</sup> )	3	21,8	(-)
	Yanan damlalar/tanecikler (s)	3	(-)	Hayır
(-): Not applicable		(a):Adhesive component		
(1): Parmephon Advance Acoustic Ceiling Tile		(b):Glass tissue component		
(2): Parmephon Polo Acoustic Ceiling Tile		(c): The painted tissue coating component		
(3): Parmephon Snow Acoustic Ceiling Tile		(d): Glass wool substantial component		
(4): Parmephon Snow Acoustic Canopy Tile		(e):Product as whole		
		(f): Paint component		

Test method	Parameter	Parameter	Compliance parameters
TS EN ISO 1716 <sup>(1)</sup>	PCS (MJ/m <sup>2</sup> ) <sup>(a)</sup>	1,65	≤ 4(A2)
	PCS (MJ/m <sup>2</sup> ) <sup>(b)</sup>	0,23	≤ 4 (A2)
	PCS (MJ/m <sup>2</sup> ) <sup>(c)</sup>	0,36	≤ 4 (A2)
	PCS (MJ/m <sup>2</sup> ) <sup>(d)</sup>	1,65	≤ 4 (A2)
	PCS (MJ/kg) <sup>(e)</sup>	2,73	≤ 3 (A2)
TS EN 13823 <sup>(1)</sup>	FIGRA <sub>0,2MJ</sub> [W/s]	39,1	≤ 120 (A2)
	THR <sub>600s</sub> [MJ]	0,7	7,5 ≤ (A2)
	LFS < edge	(-)	Yes (A2)
	SMOGRA [m <sup>2</sup> /s <sup>2</sup> ]	16,6	30 ≤ (s1)
	TSP <sub>600s</sub> [m <sup>2</sup> ]	25,4	50 ≤ (s1)
	Flaming droplet(s)/particle (s)	None	No (d0)
TS EN ISO 1716 <sup>(2)</sup>	PCS (MJ/m <sup>2</sup> ) <sup>(a)</sup>	1,03	≤ 4(A2)
	PCS (MJ/m <sup>2</sup> ) <sup>(b)</sup>	0,23	≤ 4 (A2)
	PCS (MJ/m <sup>2</sup> ) <sup>(c)</sup>	0,29	≤ 4 (A2)
	PCS (MJ/kg) <sup>(d)</sup>	1,65	≤ 4 (A2)
	PCS (MJ/kg) <sup>(e)</sup>	2,78	≤ 3 (A2)
TS EN 13823 <sup>(2)</sup>	FIGRA <sub>0,2MJ</sub> [W/s]	105,4	≤ 120 (A2)
	THR <sub>600s</sub> [MJ]	0,8	7,5 ≤ (A2)

	LFS < edge	(-)	Yes (A2)
	SMOGRA [m <sup>2</sup> /s <sup>2</sup> ]	23,4	<b>30 ≤ (s1)</b>
	TSP <sub>600s</sub> [m <sup>2</sup> ]	26,2	<b>50 ≤ (s1)</b>
TS EN ISO 1716 <sup>(3)</sup>	PCS (MJ/m <sup>2</sup> ) <sup>(a)</sup>	1,23	≤ 4(A2)
	PCS (MJ/m <sup>2</sup> ) <sup>(b)</sup>	0,23	≤ 4 (A2)
	PCS (MJ/m <sup>2</sup> ) <sup>(c)</sup>	0,74	≤ 4 (A2)
	PCS (MJ/kg) <sup>(d)</sup>	1,65	≤ 4 (A2)
	PCS (MJ/kg) <sup>(e)</sup>	2,71	≤ 3 (A2)
TS EN 13823 <sup>(3)</sup>	FIGRA <sub>0,2Ml</sub> [W/s]	38,0	≤ 120 <b>(A2)</b>
	THR <sub>600s</sub> [MJ]	0,8	7,5 ≤ (A2)
	LFS < edge	(-)	Yes (A2)
	SMOGRA [m <sup>2</sup> /s <sup>2</sup> ]	5,8	<b>30 ≤ (s1)</b>
	TSP <sub>600s</sub> [m <sup>2</sup> ]	10,0	<b>50 ≤ (s1)</b>
TS EN ISO 1716 <sup>(4)</sup>	PCS (MJ/m <sup>2</sup> ) <sup>(a)</sup>	2,06	≤ 4(A2)
	PCS (MJ/m <sup>2</sup> ) <sup>(c)</sup>	1,48	≤ 4 (A2)
	PCS (MJ/kg) <sup>(d)</sup>	1,65	≤ 4 (A2)
	PCS (MJ/kg) <sup>(e)</sup>	2,00	≤ 3 (A2)
	PCS (MJ/m <sup>2</sup> ) <sup>(f)</sup>	2,24	≤ 4 (A2)
TS EN 13823 <sup>(4)</sup>	FIGRA <sub>0,2Ml</sub> [W/s]	3,6	≤ 120 <b>(A2)</b>
	THR <sub>600s</sub> [MJ]	1,3	7,5 ≤ (A2)
	LFS < edge	(-)	Yes (A2)
	SMOGRA [m <sup>2</sup> /s <sup>2</sup> ]	5,7	<b>30 ≤ (s1)</b>
	TSP <sub>600s</sub> [m <sup>2</sup> ]	21,8	<b>50 ≤ (s1)</b>
(-): Not applicable		(a): Adhesive component	
(1): Parmephon Advance Acoustic Ceiling Tile		(b): Glass tissue component	
(2): Parmephon Polo Acoustic Ceiling Tile		(c): The painted tissue coating component	
(3): Parmephon Snow Acoustic Ceiling Tile		(d): Glass wool substantial component	
(4): Parmephon Snow Acoustic Canopy Tile		(e): Product as whole	
		(f): Paint component	

## 4. CLASSIFICATION AND FIELD OF APPLICATION

### 4.1. Reference of classification

This classification has been carried out in accordance with the clauses 11.7.3, 11.9.2 and 11.10.1 of EN 13501-1:2007+A1:2009

### 4.2. Classification

*PARMEPHON CEILING TILE COATING COMPONENTS*, in relation to their reaction to fire behaviour is classified:

**A2**

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 *PARMEPHON CEILING TILE COATING COMPONENTS* are:

Fire behaviour		Smoke production				Flaming droplets	
A2	-	s	1	,	d	0	

**Reaction to fire classification: A2-s1,d0**

#### 4.3. Field of application

This classification are valid for the following product parameters:

Product Name	Density of glass wool [kg/m <sup>3</sup> ]	Thickness (mm)	Mass per unit area of adhesive (g/m <sup>2</sup> )	Mass per unit area of glass tissue (g/m <sup>2</sup> )	Mass per unit area of paint (g/m <sup>2</sup> )	Mass per unit area of coating fabric (g/m <sup>2</sup> )
Parmephon Advance Acoustic Ceiling Tile	95	20	40	50	-	180
Parmephon Polo Acoustic Ceiling Tile	95	15	25	50	-	180
Parmephon Snow Acoustic Ceiling Tile	95	20	30	50	-	180
Parmephon Snow Acoustic Canopy Tile	95	40	50	-	1800	180

- The classification is valid for the following end use applications:

The coating materials is applied to main component of glass wool according to EN 13501-1 which have A1 fire class.

## 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.

The classification assigned to the product in this report is appropriate to a declaration of conformity by the manufacturer within the context of system 3 attestation of conformity and CE marking under the 305/2011/EU Construction Products Regulation.

The manufacturer has made a declaration, which is held on file. This confirms that the products design requires no specific processes, procedures or stages (e.g. no addition of flame-retardants, limitation of organic content, or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence the manufacturer has concluded that system 3 attestation is appropriate.

The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested.

Signed:

Ali BAYRAKTAR

Person in the charge of tests



Approved:

Onur DAĞ

Laboratory Manager