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Makina ve Yapı Malzemeleri Grup Başkanlığı
Yapı Malzemeleri Yangın ve Akustik Laboratuvarı Müdürlüğü

Adres: Aydınlı Mah. Gülenür Sok. No: 7/1 Tuzla/ İSTANBUL
Tel: +90 (216) 560 05 27 Fax: +90 (216) 560 05 65 E-posta: yalitim@tse.org.tr Web: www.tse.org.tr

HEADSHIP OF TSE TEST and CALIBRATION CENTER
CONSTRUCTION MATERIALS FIRE AND ACOUSTICS LABORATORY DIRECTORATE

Address: Aydınlı Mah. Gülenür Sok. No: 7/1 Tuzla/ İSTANBUL
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MUAYENE VE DENEY RAPORU
TEST REPORT



Test
TS EN ISO IEC 17025
AB-0001-T

AB-0001-T
331695
02-17

Deneyi Talep Eden : SİSTEM METAL YAPI VE REKLAM MALZEMELERİ SAN.TİC.AŞ.
(Adı, Adresi, Şehir vb.)
Customer (Name, Address, City etc.)

Deney Talep Tarihi/No : 20.02.2017 / 172187
Order Date / No

Numunenin Tanımı : ALÜMİNYUM KOMPOZİT PANEL, ALBOND 9000 FR , . - . - , 1.00 adet
(Cins, Marka, Tip, Tür, Model vb.)
Sample Description (Type, Mark, Model etc.)

Numune Kabul Tarihi : 10.02.2017
Test Item Receipt Date

Deneylerin Yapıldığı Tarih : 13.02.2017 - 22.02.2017
Date of Test

Uygulanan Standard / Metod : TS EN 13823:2010:2010-07 Yapı ürünleri için yangına tepki deneyleri - Tek bir yakma unsuru ile ısı etkiye maruz kalan-Döşemeler haricindeki yapı ürünleri
Applied Standard/Method
TS EN 13823:2010:2010-07 Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item

Raporun Sayfa Sayısı : 8
Number of pages of the report

Açıklamalar : ENGLISH COPY OF TEST REPORT 307200/07-16
Remarks

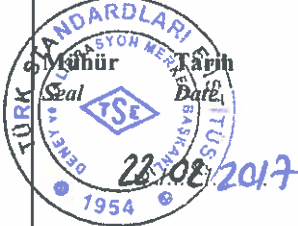
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The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.

Bu rapor özel deney talebine istinaden düzenlenmiş olup, Standartlara Uygunluk Belgesi niteliğinde değildir. Partiyi temsil etmez, ayrıca ilan, reklam ve ihalelerde uygunluk belgesi niteliğinde kullanılamaz.



Deney Sorumlusu
Person in charge of tests

Alpay SÜMER
Uzman Yardımcısı

Kontrol Eden
Reviewer

Sencer GUVEN
Teknik Şef

Onaylayan
Approved by

Metehan ÇALIŞ
Laboratuvar Müdürü

Bu rapor, hazırlayan laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz. İmzasız ve mühürsüz raporlar geçersizdir.

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This test report represents only tested sample(s), and shall not be used as Product Certificate



TEST RESULTS

TS EN 13823 Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item

Sponsor (Name&Address)	Sistem Metal Yapı Reklam Malzemeleri ve İnş. San. Tic. A.Ş. Hatip Mah. Ali Osman Çelebi Bulvarı No: 140 Çorlu/TEKİRDAĞ
Manufacturer (Name&Address)	Sistem Metal Yapı Reklam Malzemeleri ve İnş. San. Tic. A.Ş. Hatip Mah. Ali Osman Çelebi Bulvarı No: 140 Çorlu/TEKİRDAĞ
Test Date	13.07.2016

Sample Details

Arrival Date	24.06.2016	
Trade Name	ALBOND 9000 FR	
Sample Description	ALBOND 9000 FR both face painted aluminum composite panel.	
Related Specification(s)	ETAG 034 TSE K 300	
Colour and Coating Properties	Front face	Dark gray
Thickness	Front sheet	0.5 mm
	Core	3.0 mm
	Back sheet	0,5 mm
	Total	4.0 mm
Mass per unit area	7.3 kg/m ²	

Sample Collection and Preparation

The test samples were taken by the manufacturer and mounted by the laboratory personel on steel profiles by using steel screws without any openings on both horizontal and vertical joints according to defined specifications in ETAG 034 Addition E.

Conditioning

The samples were conditioned at 23 °C ± 2 °C temperature and under 50% ± 5% relative humidity for 14 days in accordance with the instructions given under clause 4.3 of EN 13238.

Deviations from the Test Method

There was no deviation from the test method.





TEST RESULTS

Results

Sample 1

FIGRA _{0,2 MJ} (W/s)	0,00
FIGRA _{0,4 MJ} (W/s)	0,00
FIGRA (W/s)	0,00
THR _{600s} (MJ)	0,44
Lateral flame spread upto the edge	Hayır
SMOGRA (m ² /s ²)	0,00
TSP _{600s} (m ²)	11,08

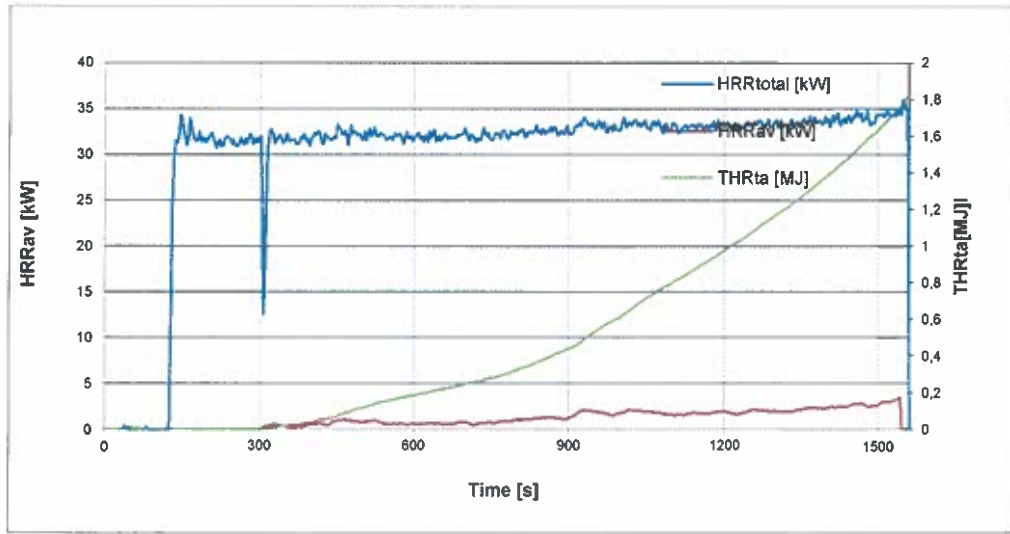


Figure 3. Plot of HRR_{av}(t) , HRR_{av-30s} and THR for Sample 1

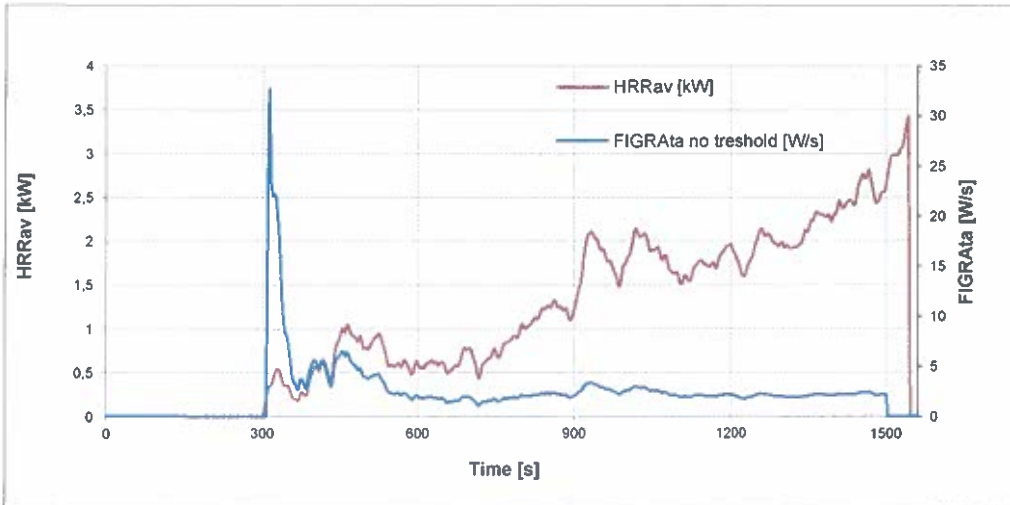


Figure 4. Plot of $1000 \times \frac{HRR_{av}(t)}{(t-300)}$ and FIGRAta for Sample 1



TEST RESULTS

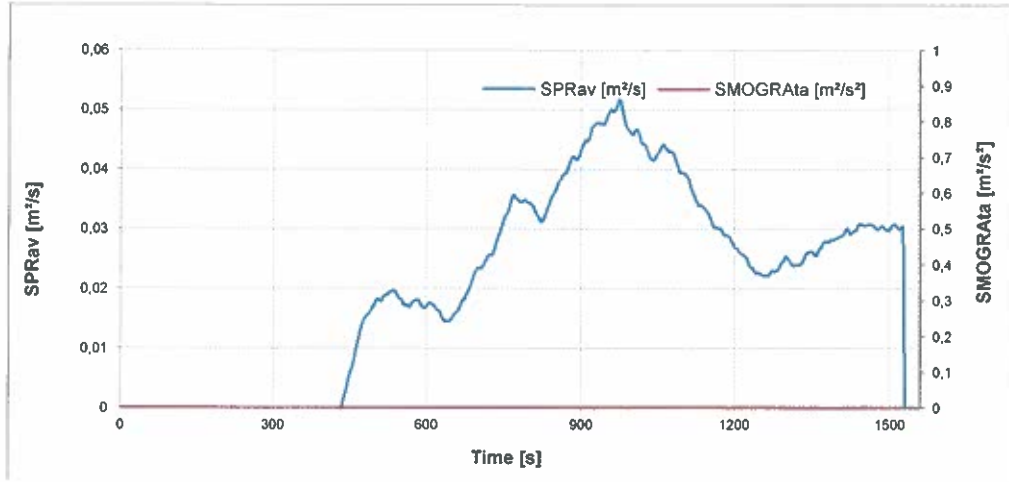


Figure 5. Plot of $SPR_{av}(t)$ for Sample 1

Sample 2

FIGRA _{0.2 MJ} (W/s)	6,91
FIGRA _{0.4 MJ} (W/s)	6,91
FIGRA (W/s)	6,91
THR _{600s} (MJ)	0,50
Lateral flame spread upto the edge	Hayır
SMOGRA (m ² /s ²)	0,00
TSP _{600s} (m ²)	12,81

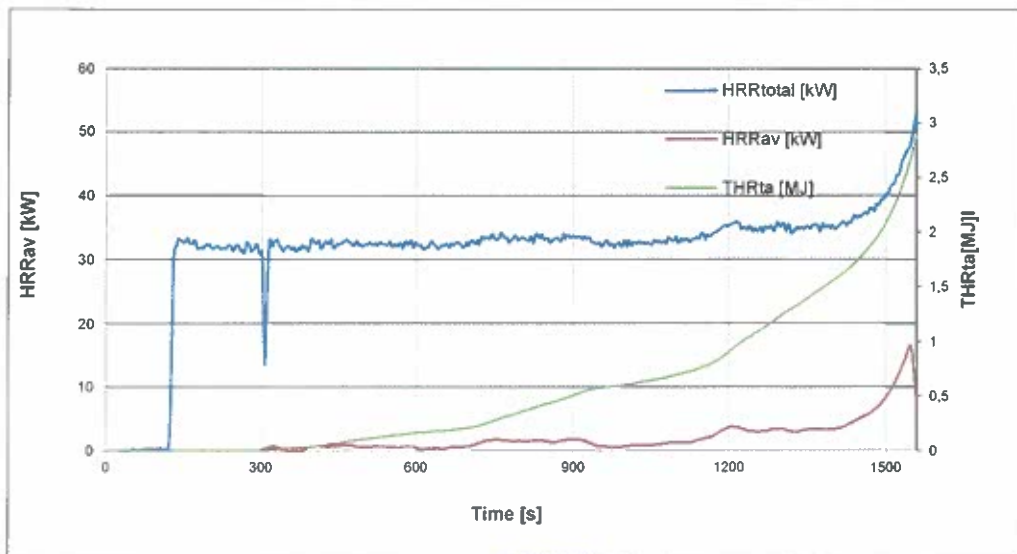


Figure 6. Plot of $HRR_{av}(t)$, $HRR_{total}(t)$ and THR for Sample 2

TEST RESULTS

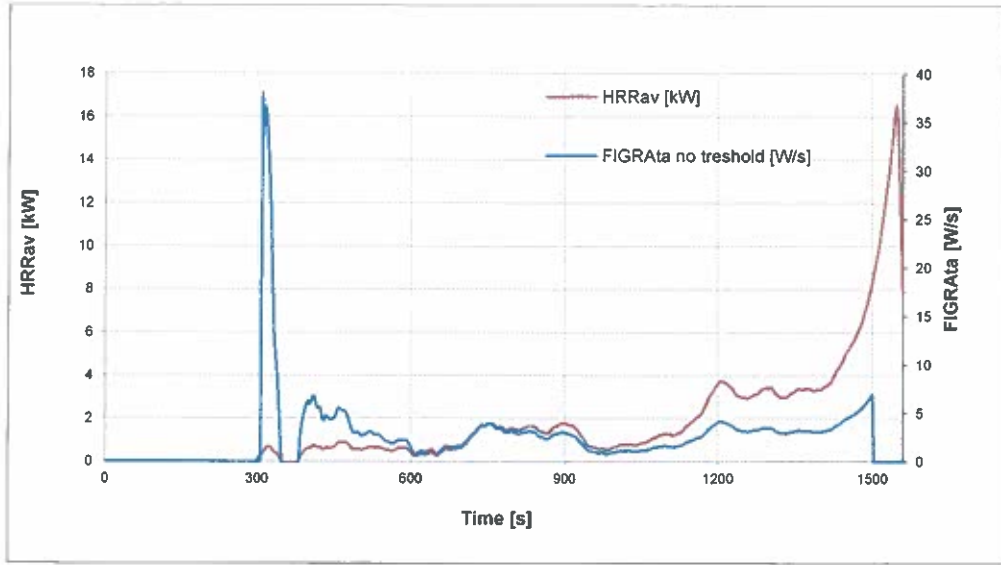


Figure 7. Plot of $1000 \times HRR_{av}(t)/(t-300)$ for Sample 2

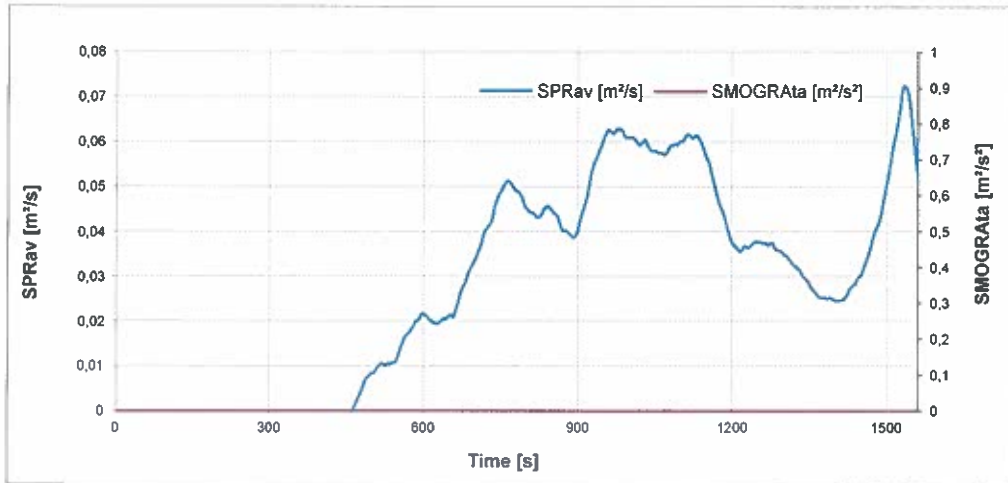
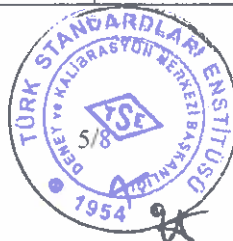


Figure 8. Plot of $SPR_{av}(t)$ for Sample 2

Sample 3

FIGRA _{0.2 MJ} (W/s)	0,00
FIGRA _{0.4 MJ} (W/s)	0,00
FIGRA (W/s)	0,00
THR _{600s} (MJ)	0,20
Lateral flame spread upto the edge	Hayır
SMOGRA (m²/s²)	0,00
TSP _{600s} (m²)	15,98





TEST RESULTS

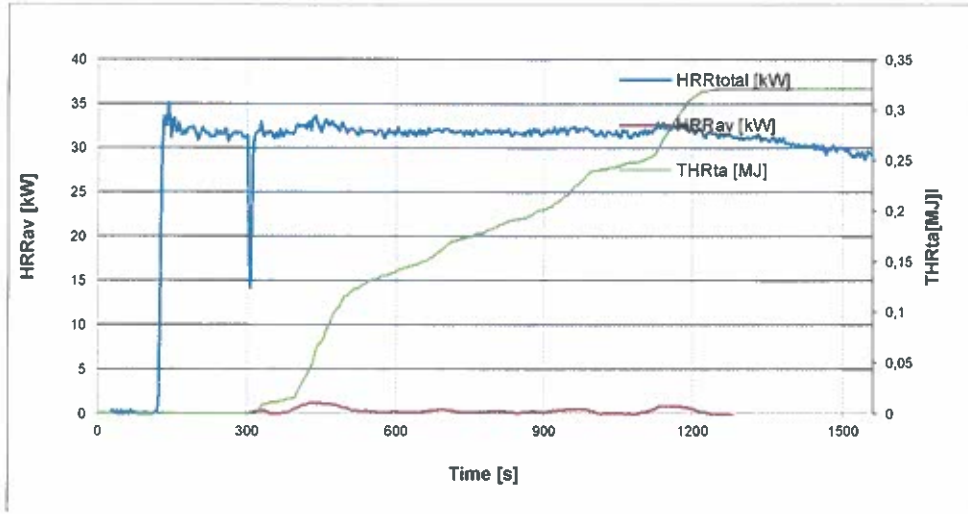


Figure 9. Plot of $HRR_{av}(t)$, HRR_{av-30s} and THR for Sample 3

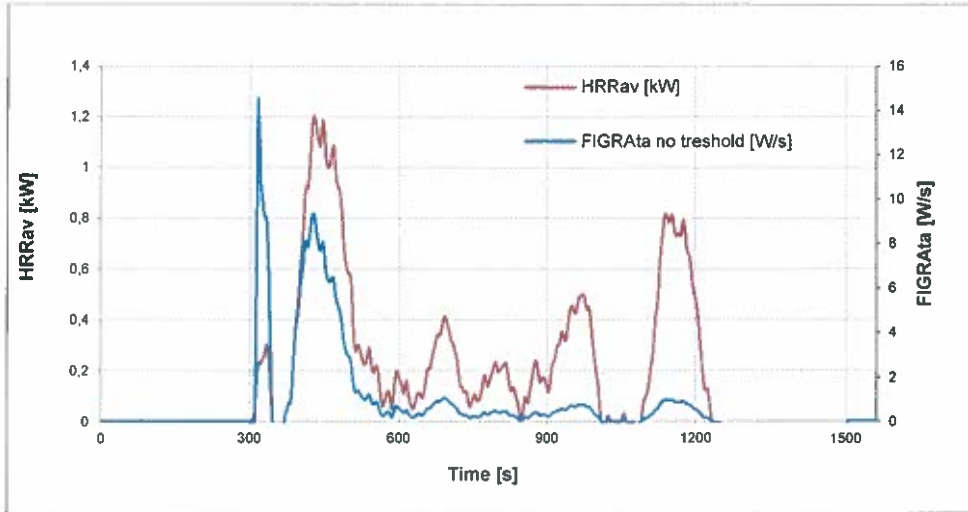
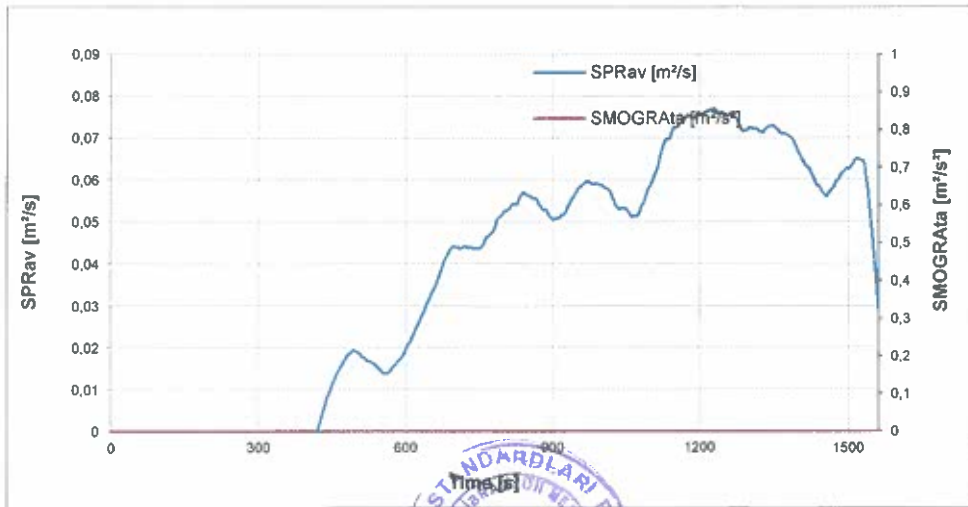


Figure 10. Plot of $1000 \times HRR_{av}(t)/(t-300)$ for Sample 3



6/8



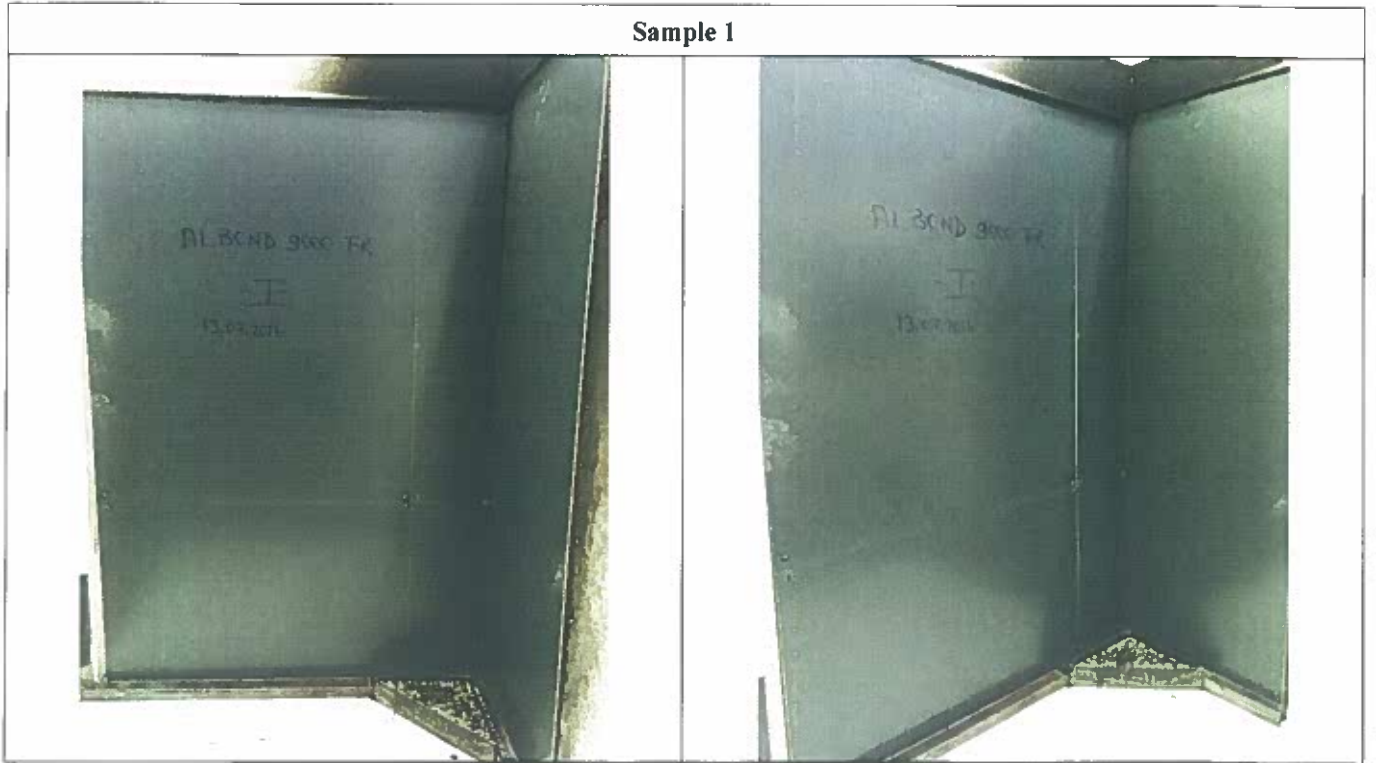
TEST RESULTS

Figure 11. Plot of $SPR_{av}(t)$ for Sample 3

General

	Sample 1	Sample 2	Sample 3	Average
FIGRA _{0,2MJ} (W/s)	0,00	6,91	0,00	2,30
THR _{600s} (MJ)	0,44	0,50	0,20	0,38
Lateral flame spread upto the edge	Hayır	Hayır	Hayır	Hayır
SMOGRA (m ² /s ²)	0,00	0,00	0,00	0,00
TSP _{600s} (m ²)	11,08	12,81	15,98	13,29

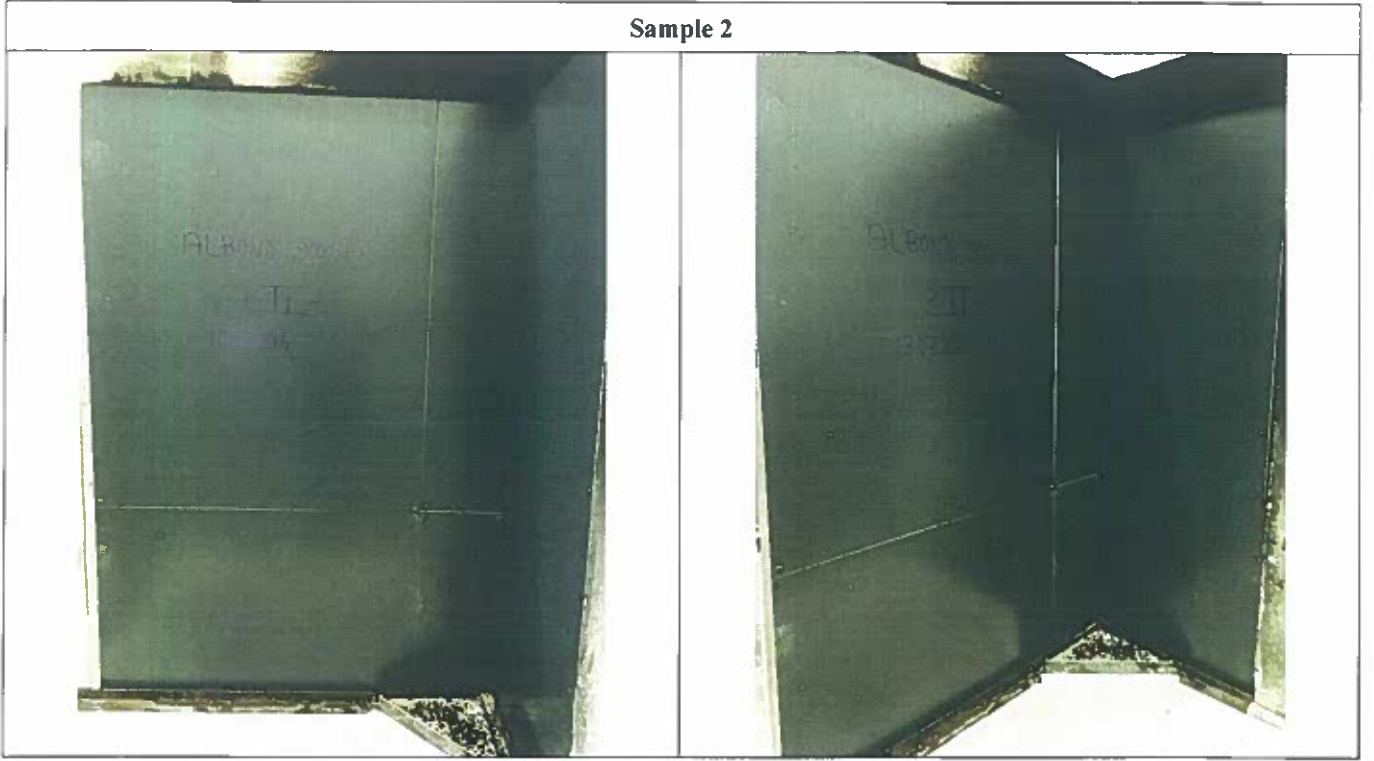
Photographs



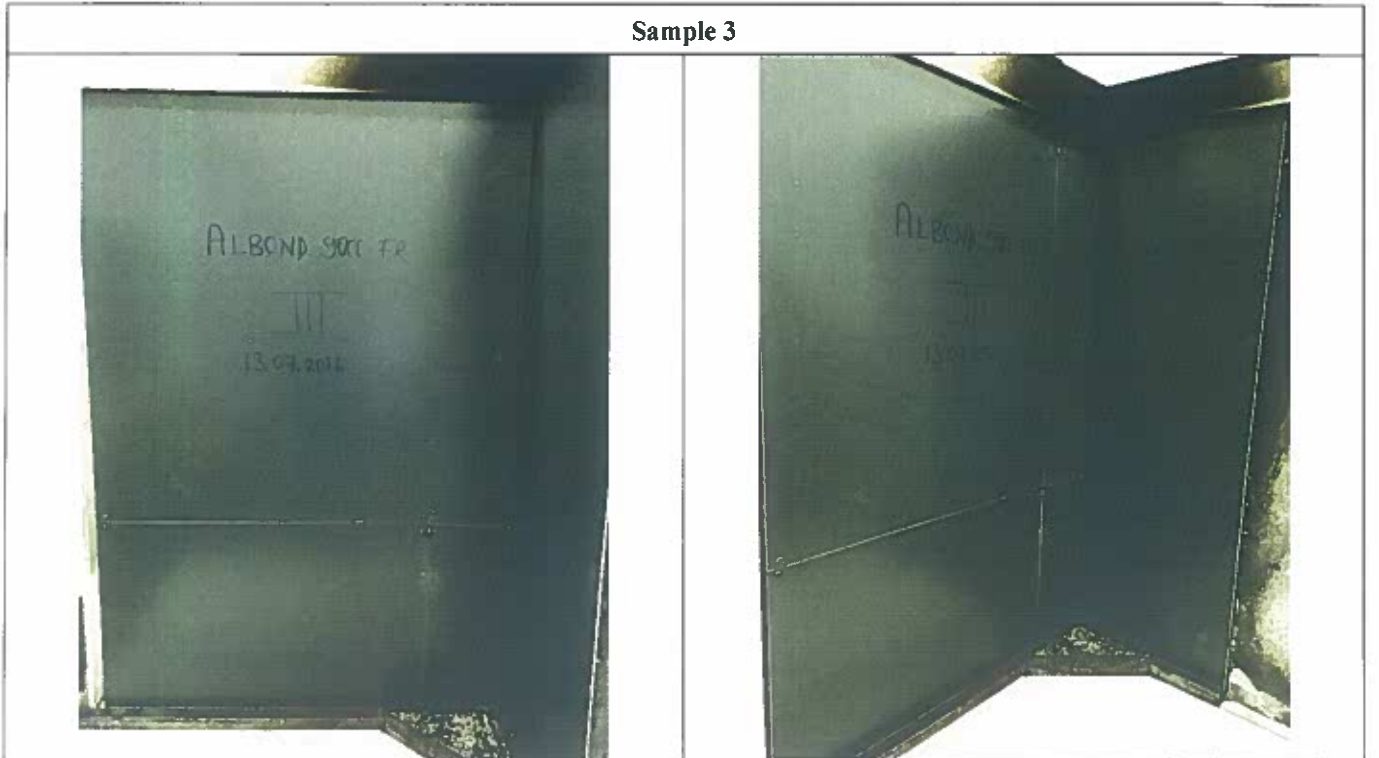


TEST RESULTS

Sample 2



Sample 3



The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

End of test report.





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Test
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AB-0001-T

331696

02-17

MUAYENE VE DENEY RAPORU
TEST REPORT

Deneyi Talep Eden : SİSTEM METAL YAPI VE REKLAM MALZEMELERİ SAN.TİC.AŞ.
(Adı,Adresi,Şehir vb.)
Customer (Name,Address,City etc.) (SİSTEM METAL YAPI VE REKLAM MALZEMELERİ SAN.TİC.AŞ.: HATİP MAH. ALİ OSMAN ÇELEBİ BULV. NO:140 Çorlu-TEKİRDAĞ)

Deney Talep Tarihi/No : 20.02.2017 / 172187
Order Date / No

Numunenin Tanımı : ALÜMİNYUM KOMPOZİT PANEL, ALBOND 9000 FR , - , - , 1.00 adet
(Cins, Marka, Tip, Tür, Model vb.)
Sample Description (Type,Mark,Model etc.) ALUMINUM COMPOSITE PANEL,ALBOND 9000 FR,-,-,1.00 item

Numune Kabul Tarihi : 10.02.2017
Test Item Receipt Date

Deneylerin Yapıldığı Tarih : 13.02.2017 - 22.02.2017
Date of Test

Uygulanan Standard / Metod : TS EN 13501-1 + A1:2013-04 Yapı mamulleri ve yapı elemanları - Yangın sınıflandırması- Bölüm1: Yangın karşısındaki davranış deneylerinden elde edilen veriler kullanılarak sınıflandırma
Applied Standard/Method TS EN 13501-1 + A1:2013-04 Fire classification of construction products and building elements - Part 1: Classification using test data from reaction to fire tests

Raporun Sayfa Sayısı : 4 (11 sayfa ek)
Number of pages of the report

Açıklamalar : ENGLISH COPY OF CLASSIFICATION REPORT 307202/07-16
Remarks

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Deney Sorumlusu
Person in Charge of tests

Alpay SÜMER
Uzman Yardımcısı

Kontrol Eden
Reviewer

Sencer GÜVEN
Teknik Şef

Onaylayan
Approved by

Metehan ÇALIŞ
Laboratuvar Müdürü

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REACTION TO FIRE CLASSIFICATION

1 Introduction

This classification report defines the classification assigned to the product **ALBOND 9000 FR both face painted aluminum composite panel** in accordance with the procedures given in the standard TS EN 13501-1+A1: 2010 Fire classification of construction products and building elements – Part 1: Classification using data from reaction to fire tests.



REACTION TO FIRE CLASSIFICATION ACCORDING TO TS EN 13501-1

Sponsor	Sistem Metal Yapı Reklam Malzemeleri ve İnş. San. Tic. A.Ş.
Prepared by	TSE Construction Materials Fire and Acoustics Laboratory
Product name	ALBOND 9000 FR both face painted aluminum composite panel.
Classification report No.	331696 / 02-17
Issue number	2/2
Date of issue	22.02.2017

This classification report consists of 4 pages and may only be used or reproduced in its entirety.

2 Details of Classified Product

2.1 General

The product ALBOND 9000 FR is defined as both face painted aluminum composite panel. Reaction to fire classification of sample is done according to ETAG 034 Addition E specifications.

2.2 Product description

Trade Name	ALBOND 9000 FR	
Sample Description	ALBOND 9000 FR both face painted aluminum composite panel.	
Related Specification(s)	ETAG 034 TSE K 300	
Colour and Coating Properties	Front face	Dark gray
Thickness	Front sheet	0.5 mm
	Core	3.0 mm
	Back sheet	0,5 mm
	Total	4.0 mm
Mass per unit area	7.3 kg/m ²	





REACTION TO FIRE CLASSIFICATION

3 Test Reports and Results in Support of This Classification Report

3.1 Reports

Following test reports were taken into account in the determination of this classification.

Laboratory	Sponsor	Test Report Ref. No	Test Method
TSE Yapı Malzemeleri Yangın ve Akustik Laboratuvar Müdürlüğü	Sistem Metal Yapı Reklam Malzemeleri ve İnş. San. Tic. A.Ş.	331690 / 02-17	TS EN ISO 11925-2: 2010
TSE Yapı Malzemeleri Yangın ve Akustik Laboratuvar Müdürlüğü	Sistem Metal Yapı Reklam Malzemeleri ve İnş. San. Tic. A.Ş.	331695 / 02-17	TS EN 13823 +A1:2015

3.2 Results

Results of the above mentioned test reports and the classification criteria corresponding to class B-s1, d0 as stated in TS EN 13501-1+A1: 2010 are given in the following table.

Test Method	Parameter	No. of Tests	Test Results	
			Mean of Continous Parameters	Non-continous Parameters
TS EN ISO 11925-2 (30 s surface exposure)	$F_s \leq (150 \text{ mm})$ in 60 s	6	(-)	Flames did not reach 150 mm treshold
	No ignition of filter paper		(-)	No ignition
TS EN 13823+A1	$FIGRA_{0,2MJ} \leq 120 \text{ W/s}$	3	2,30	(-)
	LFS < Edge of the sample		(-)	No lateral flame spread
	$THR_{600s} \leq 7,5 \text{ MJ}$		0,38	(-)
	$SMOGRA \leq 30 \text{ m}^2\text{s}^2$		0,00	(-)
	$TSP_{600s} \leq 50 \text{ m}^2$		13,29	(-)
	No flaming droplets in 600 s		(-)	No flaming droplets

(-) Not applicable

4 Classification and Direct Field of Application

4.1 Reference of classification

This classification has been carried out in accordance with clauses 11.6, 11.9.2 and 11.10.1 of TS EN 13501-1 + A1: 2010.

4.2 Classification

In relation to its reaction to fire behaviour, the product "ALBOND 9000 FR both face painted aluminum composite panel" has been classified as:

B

In relation to its smoke production behaviour, the product "ALBOND 9000 FR both face painted aluminum composite panel" has been classified as:

s1

In relation to its flaming droplets behaviour the product "ALBOND 9000 FR both face painted aluminum composite panel" has been classified as:





REACTION TO FIRE CLASSIFICATION

Fire behaviour	Smoke production	Flaming droplets
B	s1	d0

Reaction to Fire Classification: B-s1, d0

4.3 Field of application

This classification is valid for the products manufactured with the same recipe, having the same color, name and thickness in the following end use applications:

- Applications involving cladding elements larger than the ones that were tested.
- Applications without any gaps in horizontal or vertical joints and in case of such gaps covered with metal profiles.
- Applications where the panels are directly mounted on metal frames or where they are fixed on surfaces with reaction to fire class of at least A2-s1,d0 and density of 1200 kg/m³ with minimum 40 mm air gap.
- Applications involving the use of custom metal fixing elements that are provided by the manufacturer.

5 Limitations

At the time of publishing of the standard TS EN 13501-1+A1: 2010, there wasn't any decision concerning the duration of validity of a classification report

The present document represents neither type approval nor certification of the product.

End of classification report.





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MUAYENE VE DENEY RAPORU
TEST REPORT



Test
TS EN ISO IEC 17025
AB-0001-T

AB-0001-T

331690

02-17

Deneysel Talep Eden : SİSTEM METAL YAPI VE REKLAM MALZEMELERİ SAN.TİC.AŞ.
(Adı,Adresi,Şehir vb.)
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Deneysel Talep Tarihi/No : 20.02.2017 / 172187
Order Date / No

Numunenin Tanımı : ALÜMİNYUM KOMPOZİT PANEL, ALBOND 9000 FR , . . . , 1.00 adet
(Cins, Marka, Tip, Tür, Model vb.)
Sample Description (Type,Mark,Model etc.) ALUMINUM COMPOSITE PANEL,ALBOND 9000 FR,.,.,1.00 item

Numune Kabul Tarihi : 10.02.2017
Test Item Receipt Date

Deneysel Yapıldığı Tarih : 13.02.2017 - 22.02.2017
Date of Test

Uygulanan Standard / Metot : TS EN ISO 11925-2:2010-10 Yangın dayanımı deneyleri - Alev doğrudan maruz kaldığında tutuşabilirlik - Bölüm 2: Tek alev kaynağıyla deney (ISO 11925-2:2010)
Applied Standard/Method TS EN ISO 11925-2:2010-10 Reaction to fire tests - Ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test (ISO 11925-2:2010)

Raporun Sayfa Sayısı : 3
Number of pages of the report

Açıklamalar : ENGLISH COPY OF TEST REPORT 307199/07-16
Remarks

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Deneysel Sorumlusu
Person in charge of tests

Alpay SÜMER
Uzman Yardımcısı

Kontrol Eden
Reviewer

Sencer GÜVEN
Teknik Şef

Onaylayan
Approved by

Metehan ÇALIŞ
Laboratuvar Müdürü

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TEST RESULTS

TS EN ISO 11925-2 Ignitability of building products subjected to direct impingement of flame – Part 2: Single-flame source test

Sponsor (Name&Address)	Sistem Metal Yapı Reklam Malzemeleri ve İnş. San. Tic. A.Ş. Hatip Mah. Ali Osman Çelebi Bulvarı No:140 Çorlu/TEKİRDAĞ
Manufacturer (Name&Address)	Sistem Metal Yapı Reklam Malzemeleri ve İnş. San. Tic. A.Ş. Hatip Mah. Ali Osman Çelebi Bulvarı No:140 Çorlu/TEKİRDAĞ
Test Date	13.07.2016

Sample Details

Arrival Date	24.06.2016	
Trade Name	ALBOND 9000 FR	
Sample Description	ALBOND 9000 FR both face painted aluminum composite panel.	
Related Specification(s)	ETAG 034 TSE K 300	
Colour and Coating Properties	Front face	Dark gray
Thickness	Front sheet	0.5 mm
	Core	3.0 mm
	Back sheet	0,5 mm
	Total	4.0 mm
Mass per unit area	7.3 kg/m ²	

Sample Collection and Preparation

The test samples were taken by the manufacturer.

Conditioning

The samples were conditioned at 23 °C ± 2 °C temperature and under 50% ± 5% relative humidity for 14 days in accordance with the instructions given under clause 4.3 of EN 13238.





TEST RESULTS

Test Results

Flame impingement type and duration	Surface, 30 s					
Sample No	1	2	3	4	5	6
Occurance of ignition	No	No	No	No	No	No
Wheter flame reaches 150 mm mark	No	No	No	No	No	No
Ignition of the filter paper	No	No	No	No	No	No
Observations and additional notes	The samples showed no sign of ignition or dripping during the test.					

Flame impingement type and duration	Edge, 30 s					
Sample No	1	2	3	4	5	6
Occurance of ignition	No	No	No	No	No	No
Wheter flame reaches 150 mm mark	No	No	No	No	No	No
Ignition of the filter paper	No	No	No	No	No	No
Observations and additional notes	The samples showed no sign of ignition or dripping during the test.					

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

End of test report.

