



TÜRKAK - TÜRK AKREDİTASYON KURUMU tarafından akredite
Accredited by TÜRKAK

TSE DENEY ve KALİBRASYON MERKEZİ BAŞKANLIĞI
Yapı Malzemeleri Yangın ve Akustik Laboratuvarı Müdürlüğü

Adres:Aydınlı Mahallesi Ulus Sokak No:7/1 34953 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 Mahallesi Ulus Sokak No:7/1 34953 Tuzla/ İSTANBUL
Tel:+90 (216) 560 05 27 Fax: +90 (216) 560 05 65 E-mail:yalitim@tse.org.tr Web:www.tse.org.tr

MUAYENE VE DENEY RAPORU
TEST REPORT

AB-0001-T
498669
11-19

Deneyi Talep Eden/Firma : ŞEMS METAL SAN.TİC.A.Ş.
(Adı,Adresi,Şehir vb.) (ŞEMS METAL SAN.TİC.A.Ş. : OSB 12 CD NO:31/4 MELİKHAZİ KAYSERİ
Requesting/Customer (Name,Address, City etc.) Melikgazi-KAYSERİ)
Deney Talep Tarihi/No : 01.10.2019 / 352973
Order Date / No
Numunenin Tanımı : 547118,, DECKON , , Asma Tavan Taşıyıcı Sistem Bileşeni , -, 1.00 set
(No,Cins, Marka, Tip, Tür, Model vb.)
Sample Description(No,Type,Mark,Model etc.) 547118,,DECKON,,Substructure Components for Suspended Ceilings,-, 1.00 set
Numune Kabul Tarihi : 01.10.2019
Test Item Receipt Date
Deneylerin Yapıldığı Tarih : 01.10.2019 - 01.11 2019
Date of Test
Uygulanan Standard / Metod : TS EN 13823+A1:2015-02 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+A1:2015-02 Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item
Raporun Sayfa Sayısı : 7
Number of pages of the report
Açıklamalar :

Remarks

Türk Akreditasyon Kurumu(TURKAK) deney raporlarının tanınması konusunda Avrupa Akreditasyon Birliği(EA) ve Uluslararası Laboratuvar Akreditasyon Birliği(ILAC) ile karşılıklı tanıma anlaşmasını imzalamıştır

The Turkish Accreditation Agency(TURKAK) is signatory to the multilateral agreements of the European co-operation for the Accreditation(EA) and of the International Laboratory Accreditation(ILAC) for the Mutual recognition of test reports.

Deney ve/veya ölçüm sonuçları, genişletilmiş ölçüm belirsizlikleri (olması halinde) ve deney metodları bu raporun tamamlayıcı kısmı olan takip eden sayfalarda verilmiştir

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.

Numune müşteri tarafından alınmıştır, bu rapordaki sonuçlar numunenin teslim alındığı hali için geçerlidir. Bu rapor özel deney talebine istinaden düzenlenmiş olup, Standartlara Uygunluk Belgesi niteliğinde değildir. Partiyi temsil etmez, Piyasa Gözetim ve Denetim Faaliyetlerine esas oluşturamaz, ilan, reklam ve ihalelerde 6102 sayılı Türk Ticaret Kanunu'nun 54 Ve 55 Maddelerinde yer alan haksız rekabet hükümlerine aykırılık teşkil edecek şekilde kullanılamaz. Söz konusu hususlara aykırı hareket edilmesi halinde hukuki ve cezai açıdan TSE sorumlu tutulamaz.

The sample was taken by the customer and the results in this report are valid for the status of the sample being received. This report has been prepared in accordance with the request for special tests and is not qualified as a Certificate of Conformity to Standards. It does not represent the party, does not constitute a basis for Market Surveillance and Audit Activities, and cannot be used in announcement, advertisements and tenders in contradiction with the provisions of unfair competition in Articles 54 and 55 of the Turkish Commercial Law No. 6102. TSE cannot be held responsible in case of violation of these issues in legal and criminal terms.

Mühür
Seal

Tarih
Date

Deney Sorumlusu

Kontrol Eden
Reviewer

Onaylayan

Person in charge of tests

Approved by

Harun ÇAYIR
Deney Personeli
Testing Expert

Sencer GÜVEN
Teknik Şef
Technical Chief

Sencer GÜVEN
Laboratuvar Müdürü V.
Laboratory Manager Dep.

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

Bu rapor, sadece deneyi yapılan numune için geçerlidir ve "Ürün Belgesi" yerine geçmez.

This test report shall not be reproduced other than in full except with the written permission of the laboratory. Test reports without signature and seal are not valid.

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





MUAYENE - DENEY SONUÇLARI TEST RESULTS

TS EN 13823+A1:2015-02 Building products excluding floorings exposed to the thermal attack by a single burning item (SBI TEST)

SPONSOR (Name&Address)	ŞEMS METAL SAN. VE TİC. A.Ş.
	Kayseri OSB 12. Cad. No:31/A Melikgazi/KAYSERİ/TÜRKİYE
DEMANDED BY (Name&Address)	ŞEMS METAL SAN. VE TİC. A.Ş.
	Kayseri OSB 12. Cad. No:31/A Melikgazi/KAYSERİ/TÜRKİYE
MANUFACTURER (Name&Address)	ŞEMS METAL SAN. VE TİC. A.Ş.
	Kayseri OSB 12. Cad. No:31/A Melikgazi/KAYSERİ/TÜRKİYE

Sample Details

Arrival Date	1.10.2019
Test Date	1.11.2019
General Description	Substructure components for Suspended ceilings as internal or external finishes
Trademark	DECKON
Related Specification(s)	TS EN 13964:2014
Purpose of Inspection	Special Test Request

Samples Properties (Designated Features)

Components	Painted galvanized steel sheet	Electrostatic powdered paint
Weight per unit area	2198 g/m ²	180 g/m ²
Thickness	0,28 mm	50-80 µm
Colour	RAL 9016 White	
Weight per unit area of product	2378 g/m ² (avg.)	

Sample Collection and Preparation

The samples were selected and delivered to the laboratory and mounted by placing the painted grid side by side to form the sample according to clause I.3.2.1 of TS EN 13964 by the manufacturer. The test conducted with 40 mm air gap behind sample.

Conditioning

The samples were conditioned for fixed period at the temperature of 23 °C ± 2 °C and 50% ± 5% relative humidity for 31 days according to clause 4.3 of EN 13238.

Deviations from the Test Method

There was no deviation from the test method.



MUAYENE - DENEY SONUÇLARI TEST RESULTS

Test 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)	0,15
Lateral flame spread upto the edge	No
SMOGRA (m ² /s ²)	19,14
TSP _{600s} (m ²)	48,93

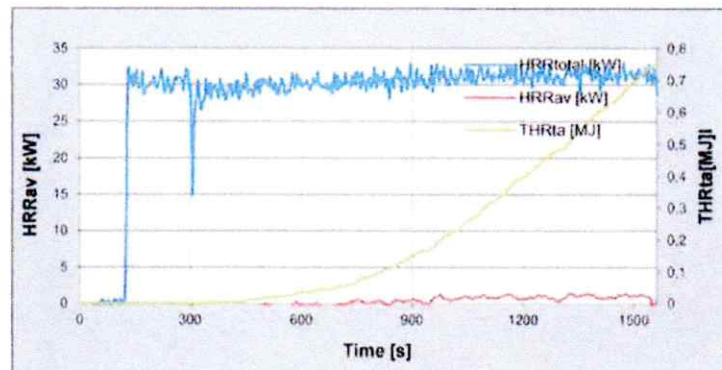


Figure 1. Plot of HRRav(t) , HRRav-30s and THR for Sample 1

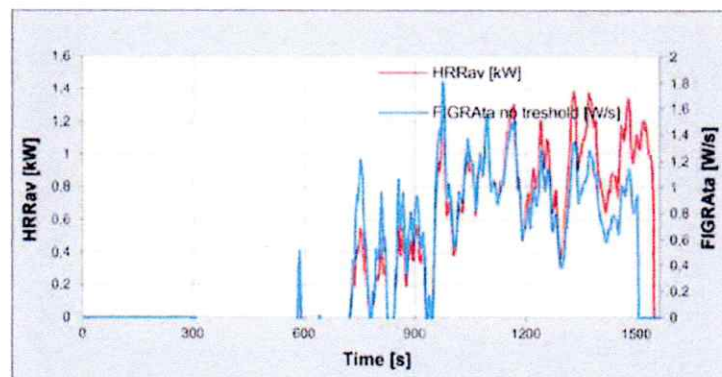


Figure 2. Plot of $1000 \times \text{HRRav}(t)/(t-300)$ for Sample 1

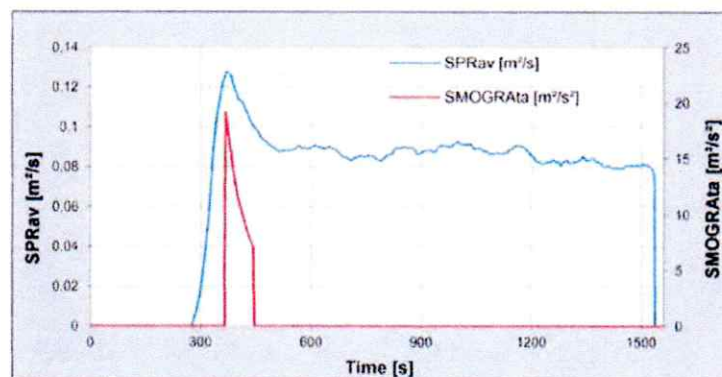


Figure 3. Plot of SPRav(t) for Sample 1



MUAYENE - DENEY SONUÇLARI TEST RESULTS

Sample 2:

FIGRA _{0,2 MJ} (W/s)	0,00
FIGRA _{0,4 MJ} (W/s)	0,00
FIGRA (W/s)	0,00
THR _{600s} (MJ)	0,04
Lateral flame spread upto the edge	No
SMOGRA (m ² /s ²)	19,60
TSP _{600s} (m ²)	46,51

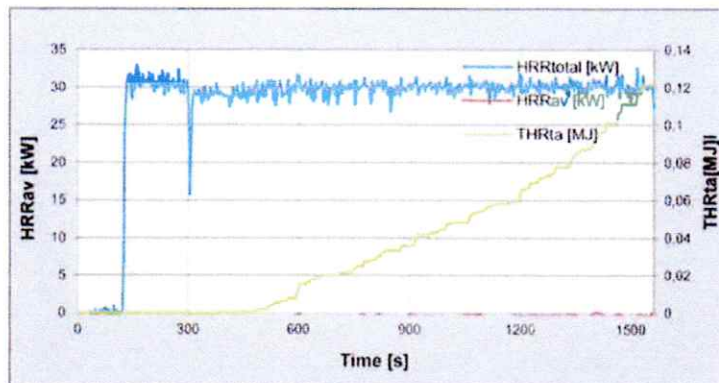


Figure 4. Plot of HRRav(t) , HRRav-30s and THR for Sample 2

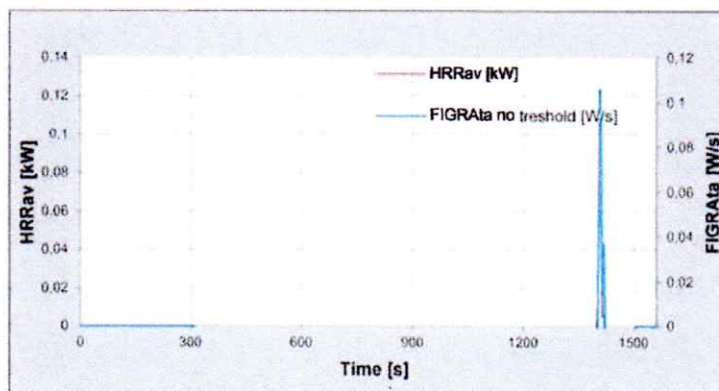


Figure 5. Plot of 1000 x HRRav(t)/(t-300) for Sample 2

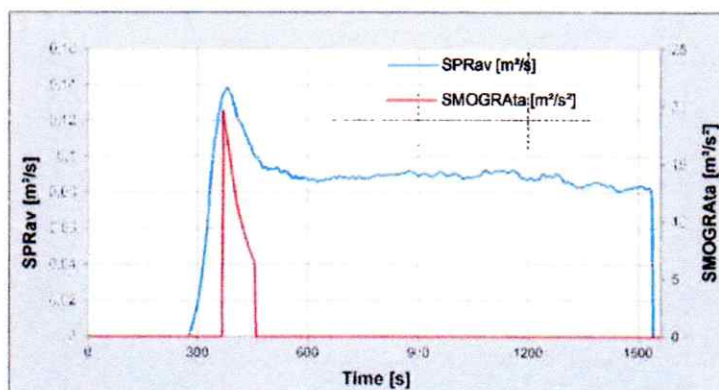


Figure 6. Plot of SPRav(t) for Sample 2

MUAYENE - DENEY SONUÇLARI TEST RESULTS

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)	0,10
Lateral flame spread upto the edge	No
SMOGRa (m ² /s ²)	14,34
TSP _{600s} (m ²)	47,14

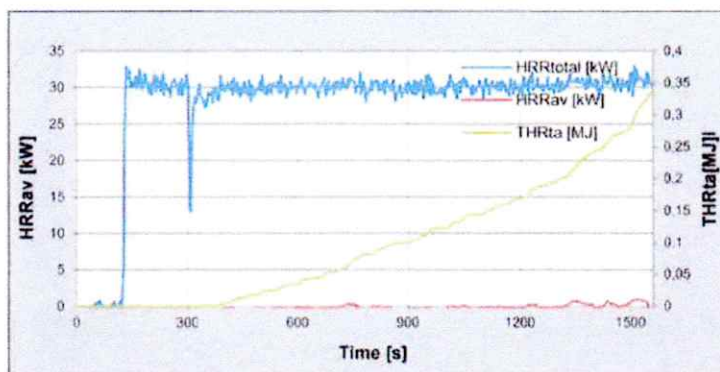


Figure 7. Plot of HRRav(t) , HRRav-30s and THR for Sample 3

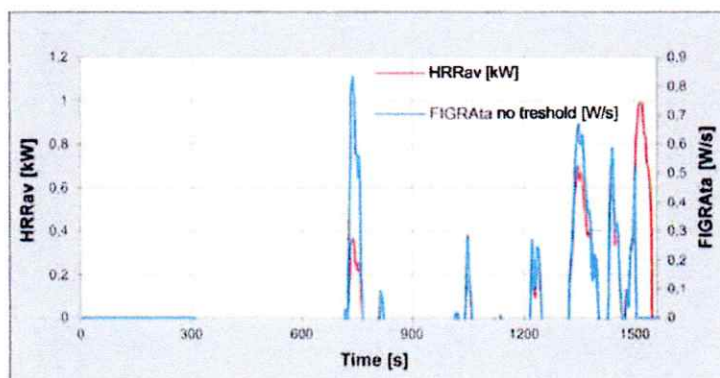


Figure 8. Plot of 1000 x HRRav(t)/(t-300) for Sample 3

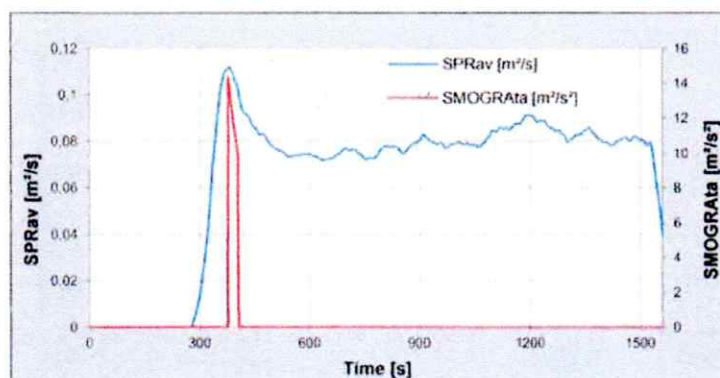


Figure 9. Plot of SPRav(t) for Sample 3



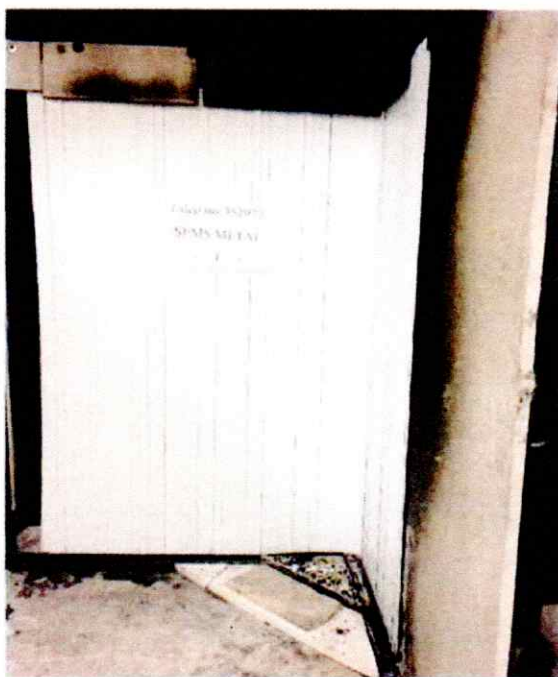
MUAYENE - DENEY SONUÇLARI TEST RESULTS

General

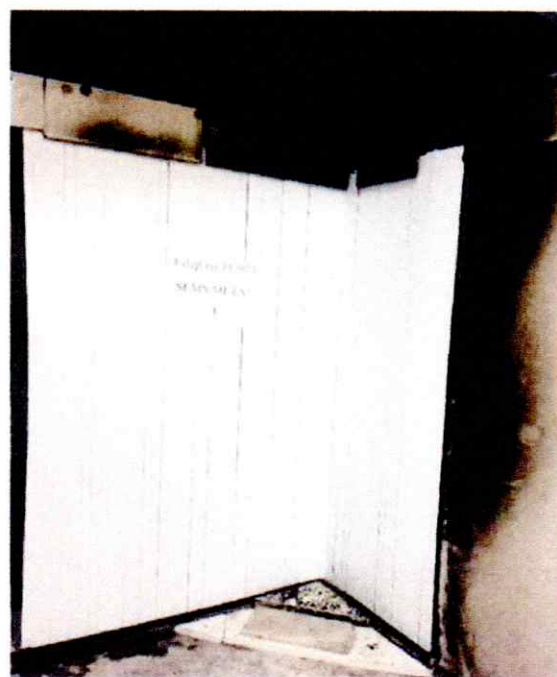
	SAMPLE 1	SAMPLE 2	SAMPLE 3	AVARAGE
FIGRA (W/s)	0,00	0,00	0,00	0,00
FIGRA _{0,2 MJ} (W/s)	0,00	0,00	0,00	0,00
FIGRA _{0,4 MJ} (W/s)	0,00	0,00	0,00	0,00
THR _{600s} (MJ)	0,15	0,04	0,10	0,10
Lateral flame spread upto the edge	No	No	No	No
SMOGRA (m ² /s ²)	19,14	19,60	14,34	17,69
TSP _{600s} (m ²)	48,93	46,51	47,14	47,52

Photographs

The photographs of the samples taken in accordance to clause 5.3.3 of TS EN 13823+A1:2015 are given below.



Photograph 1. Long wing detail of Sample 1



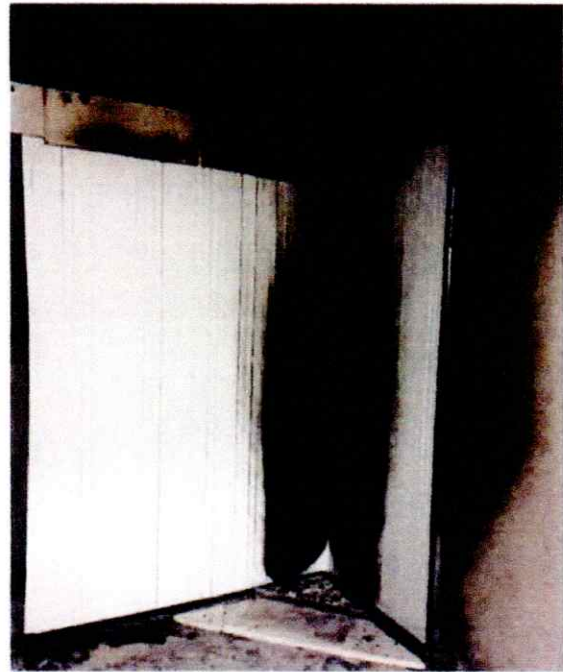
Photograph 2. Corner detail of Sample 1



MUAYENE - DENEY SONUÇLARI TEST RESULTS



Photograph 3. Long wing detail of Sample 1 (After test)



Photograph 4. Corner detail of Sample 1 (After 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.

