



TÜRK STANDARDLARI ENSTİTÜSÜ

TURKISH STANDARDS INSTITUTION

TALEP NO: 352973  
Request No.

**TSE DENEY ve KALİBRASYON MERKEZİ BAŞKANLIĞI YAPI MALZEMELERİ  
YANGIN VE AKUSTİK LABORATUVARI MÜDÜRLÜĞÜ**

*TSE Headship Of Test And Calibration Center Construction Materials Fire And Acoustics Laboratory Directorate*

Yapı Malzemeleri Yönetmeliği(305/2011/AB)  
Construction Products Regulation(305/2011/EU)

**ONAYLANMIŞ KURULUŞ : 1783**  
NOTIFIED BODY : 1783

TS EN 13501-1+A1

**YANGINA TEPKİ SINIFLANDIRMA RAPORU**

*REACTION TO FIRE CLASSIFICATION REPORT*

**Talep Eden** : ŞEMS METAL SAN. VE TİC. A.Ş.  
Applicant  
**Adresi** : Kayseri OSB 12. Cad. No:31/A Melikgazi/KAYSERİ/TÜRKİYE  
Address  
**Üretim Yeri Adı ve Adresi** : ŞEMS METAL SAN. VE TİC. A.Ş.  
Name and address of Production Place  
Kayseri OSB 12. Cad. No:31/A Melikgazi/KAYSERİ/TÜRKİYE  
**Markası,Ticari Modeli,Tipi** : DECKON  
Trade Mark, Commercial Model,Type  
**Ürün Tanımı** : Asma tavan taşıyıcı sistem bileşeni iç ve dış kullanımlar  
Product description : Substructure components for Suspended ceilings as internal or external finishes

**YANGINA TEPKİ SINIFI**

*REACTION TO FIRE CLASSIFICATION*

**A2-s1,d0**

**Rapor Değerlendirme Tarihi** : 11.11.2019  
Date of Issue



Bu rapor 4 sayfadır ve kısmen çoğaltılamaz.  
This report is composed of 4 pages and cannot be copied partially.

**Onaylayan**  
Approved

Sencer Güven  
Dep. Lab. Man.

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## 1. Introduction

This classification report defines the classification assigned to the product “trademarked DECKON, Substructure components for Suspended ceilings as internal or external finishes ” in accordance with the procedures given in the standard TS EN 13501-1+A1: 2013 using data from reaction to fire tests..

## 2. Details of Classified Product

### 2.1. General

The classified product is manufactured according to TS EN 13964:2014 defined as “trademarked DECKON, Substructure components for Suspended ceilings as internal or external finishes ”. The samples mounted according to clause I.3 of TS EN 13964.

TS EN 13964:2014 Suspended ceilings - Requirements and test methods

- Suspended ceilings (kits) (as internal or external finishes in ceilings)

### 2.2. Product Description

Arrival Date	01.10.2019
General Description	Substructure components for Suspended ceilings as internal or external finishes
Trademark	DECKON
Related Specification(s)	TS EN 13964:2014

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

## 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 Reference No	Test Method
TSE Construction Materials Fire and Acoustics Laboratory	ŞEMS METAL SAN. VE TIC. A.Ş.	498666 / 11-19	TS EN ISO 1716: 2018-11
TSE Construction Materials Fire and Acoustics Laboratory	ŞEMS METAL SAN. VE TIC. A.Ş.	498669 / 11-19	TS EN 13823+A1: 2015-02





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### 3.2 Results

Test Method	Parameter	Number of Tests	Test Results	
			Mean of continous parameters	Non-continous parameters
TS EN ISO 1716	For substantial component Qpcs $\leq 3,0$ MJ/kg (Galvanized steel sheet)	3	0,000	(-)
	For external non-substantial component Qpcs $\leq 4,0$ MJ/m <sup>2</sup> (Paint)		3,166	(-)
	For product as a whole Qpcs $\leq 3,0$ MJ/kg		1,331	(-)
TS EN 13823+A1	FIGRA $\leq 120$ W/s	3	0,00	(-)
	THR <sub>600s</sub> $\leq 7,5$ MJ		0,10	(-)
	LFS < Edge of the sample		(-)	LFS < Edge
	SMOGRA $< 30$ m <sup>2</sup> /s <sup>2</sup>		17,69	(-)
	TSP <sub>600s</sub> $\leq 50$ m <sup>2</sup>		47,52	(-)
	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 clause 11.7.3, clause 11.9.2 and clause 11.10.1 of TS EN 13501-1 + A1: 2013

### 4.2. Classification

In relation to its reaction to fire behaviour, the product "trademarked DECKON, Substructure components for Suspended ceilings as internal or external finishes" has been classified as:

**A2**

In relation to its reaction to fire behaviour, the product "trademarked DECKON, Substructure components for Suspended ceilings as internal or external finishes" has been classified as:

**s1**

In relation to its reaction to fire behaviour, the product "trademarked DECKON, Substructure components for Suspended ceilings as internal or external finishes" has been classified as:

**d0**





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Fire behaviour	Smoke production	Flaming droplets
A2	s1	d0

### REACTION TO FIRE CLASS: A2-s1,d0

#### 4.3 Field of Application

This classification is valid for the products manufactured with the same recipe, same type, under the same product name and product details defined in 2.1 in the following end use applications.

Substrate	Standard gypsum plasterboard (TS EN 13238)	Applications involving the substrate with reaction to fire class of at least A2-s1,d0,
Colour	RAL 9016 white	Only RAL 9016 white colour applications,
Coating (paint) consumption rate	180 g/m <sup>2</sup>	Application with 180 g/m <sup>2</sup> or lower consumption rate
Air gap	40 mm	Applications involving an air gap of 40 mm behind the product,
Insulation	None	Applications involving without any insulation behind the sample,
Mounting and fixing	Mechanical fixings	When it is mounted with non-inflammeable mechanical fixings.

#### 5. Limitations

At the time of publishing of the standard TS EN 13501-1+A1: 2013, 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.

Prepared by

  
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Approved by

  
Sencer GÜVEN  
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