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

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

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MUAYENE VE DENEY RAPORU
TEST REPORT

AB-0001-T

483911

08-19

Deneyi Talep Eden/Firma : TVT TEKSTİL DIŞ TIC. VE DAN. LTD.ŞTİ
(Adı,Adresi,Şehir vb.)
Requesting/Customer (Name,Address, City etc.) (TVT TEKSTİL DIŞ TIC. VE DAN. LTD.ŞTİ: İSTOÇ SİT. 35.ADA NO:7 Bağcılar-İSTANBUL)

Deney Talep Tarihi/No : 23.07.2019 / 335316
Order Date / No

Numunenin Tanımı : 523371,, Esair Fabric® - Esair, -, -, 1,00 set
(No,Cins, Marka, Tip, Tür, Model vb.)

Sample Description(No,Type,Mark,Model etc.) 523371,, Esair Fabric® - Esair, -, -, 1,00 set

Numune Kabul Tarihi : 23.07.2019
Test Item Receipt Date

Deneylerin Yapıldığı Tarih : 23.07.2019 - 07.08.2019
Date of Test

Uygulanan Standard / Metod : TS EN 13501-1 + A1:2013-04 Yapı mamulleri ve yapı elemanları - Yangın sınıflandırması- Bölüm 1: 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
Number of pages of the report

Açıklamalar :
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.

This test report was prepared upon customer's request, can not be used as certificate of conformity to standards, does not represent a batch and can not be used as conformity document for advertisements and procurements.



Deney Sorumlusu
Person in charge of tests

Harun ÇAYIR
Deney Personeli
Testing Expert

Kontrol Eden
Reviewer

Hüseyin ALPER YILDIRIM
Teknik Şef V.
Technical Chief Dep.

Onaylayan
Approved by

Metchan ÇALIŞ
Laboratuvar Müdürü
Laboratory Manager

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



MUAYENE - DENEY SONUÇLARI TEST RESULTS

REACTION TO FIRE CLASSIFICATION

1. Introduction

This classification report defines the classification assigned to the product “trademarked Esair Fabric® - Esair, Fabric designed for Air Distribution and Fabric Duct Systems” in accordance with the procedures given in the standard TS EN 13501-1+A1: 2013 using data from reaction to fire tests.



REACTION TO FIRE CLASSIFICATION ACCORDING TO TS EN 13501-1

SPONSOR (Name&Address)	TVT TEKSTİL DIŞ TİCARET VE DANIŞMANLIK LTD. ŞTİ.
	İstoç Sitesi 35. Ada No:7 Bağcılar/İSTANBUL
DEMANDED BY (Name&Address)	TVT TEKSTİL DIŞ TİCARET VE DANIŞMANLIK LTD. ŞTİ.
	İstoç Sitesi 35. Ada No:7 Bağcılar/İSTANBUL
MANUFACTURER (Name&Address)	TVT TEKSTİL DIŞ TİCARET VE DANIŞMANLIK LTD. ŞTİ.
	İstoç Sitesi 35. Ada No:7 Bağcılar/İSTANBUL
PREPARED BY	TSE Construction Materials Fire and Acoustics Laboratory
CLASSIFICATION REPORT NO.	483911
DATE OF ISSUE	9.08.2019
ISSUE NUMBER	1/2

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 classified product is defined as “trademarked Esair Fabric® - Esair, Fabric designed for Air Distribution and Fabric Duct Systems”

2.2. Product Description

General Description	Fabric designed for Air Distribution and Fabric Duct Systems
Trademark	Esair Fabric® - Esair
Related Specification(s)	-

Samples Properties (Designated Features)	
Thickness	0,40 mm (measured mean value)
Weight per unit area	264,13 kg/m² (measured mean value)



MUAYENE - DENEY SONUÇLARI TEST RESULTS

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	TVT TEKSTİL DIŞ TİCARET VE DANIŞMANLIK LTD. ŞTİ.	483907	TS EN ISO 11925-2: 2011-04
		08-19	
TSE Construction Materials Fire and Acoustics Laboratory	TVT TEKSTİL DIŞ TİCARET VE DANIŞMANLIK LTD. ŞTİ.	483909	TS EN 13823+A1: 2015-02
		08-19	

3.2. Results

Results of the test reports mentioned in 3.1 and the classification criteria corresponding to class B-s1,d0 as stated in TS EN 13501-1+A1:2013 are given in the following table.

Test Method	Parameter	Number of Tests	Test Results	
			Mean of continous parameters	Non-continous parameters
TS EN ISO 11925-2 (30 s surface exposure)	Fs in 60 s ≤ 150 mm	6	(-)	Flames did not reach 150 mm threshold
	No ignition of filter paper		(-)	No ignition
TS EN 13823+A1	FIGRA ≤ 120 W/s	3	0,00	(-)
	THR _{600s} ≤ 7,5 MJ		0,32	(-)
	LFS < Edge of the sample		(-)	LFS < Edge
	SMOGR _A ≤ 30 m ² /s ²		0,00	(-)
	TSP _{600s} ≤ 50 m ²		12,49	(-)
	No flaming droplets in 600 s		(-)	No flaming droplets

(-) Not applicable.





MUAYENE - DENEY SONUÇLARI TEST RESULTS

4. Classification and Direct Field of Application

4.1. Reference of classification

This classification has been carried out in accordance with clause 11.6, 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 Esair Fabric® - EsairFabric designed for Air Distribution and Fabric Duct Systems" has been classified as:

B

In relation to its reaction to fire behaviour, the product "trademarked Esair Fabric® - EsairFabric designed for Air Distribution and Fabric Duct Systems" has been classified as:

s1

In relation to its reaction to fire behaviour, the product "trademarked Esair Fabric® - EsairFabric designed for Air Distribution and Fabric Duct Systems" has been classified as:

d0

Fire behaviour	Smoke production	Flaming droplets
B	s1	d0
REACTION TO FIRE CLASS: B-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 Clause 2 in the following end use applications.

- Applications where the fabrics are directly mounted on metal frames or where they are fixed on surfaces with reaction to fire class of at least A2-s1,d0 with minimum 40 mm air gap.
- Applications involving the use of custom metal fixing elements that are provided by the manufacturer,
- Applications without any gaps.

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.

End of classification report.

