



TÜRK STANDARDLARI ENSTİTÜSÜ
DENEY ve KALİBRASYON
MERKEZİ BAŞKANLIĞI
KAYSERİ LABORATUVAR MÜDÜRLÜĞÜ



Test
TS EN ISO/IEC 17025
AB-0001-T

TURKISH STANDARDS INSTITUTION
HEADSHIP OF TSE TEST and CALIBRATION CENTER
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AB-0001-T

54021

02-24

MUAYENE VE DENEY RAPORU
TEST REPORT

Deneyi Talep Eden/Firma : (Adı, Adresi, Şehir vb.) Requesting/Customer (Name, Address, City etc.)	İNNOVA ENDÜSTRİ ÜRETİM İÇ VE DIŞ TİCARET ANONİM ŞİRKETİ SEMERKANT MAHALLESİ SÜREYYA HOCA CAD. BORAN SİT. NO:28 A MERKEZ/TOKAT
Deney Talep Tarih / No : Order Date/No.	13.10.2023 / 2023-252368
Numunenin Tanımı : (Cins, Marka, Sınıf, Tip, Tür, Model vb.) Sample Description (Type, Mark, Class, Model etc.)	2023-308536, Yalıtımlı / Insulated, İNNOVA, 1100 x 2200 mm Tek Kanat Yangın Kapısı / 1100 x 2200 mm Single-leafed Fire Door, KENDİNDEN KAPAMALI, Kendinden Kapamalı / Self-closed, E120 Tek Kanatlı / E120 Single-leafed, 2.00, adet
Numune Kabul Tarihi : Sample Receipt Date	11.12.2023
Deneylerin Yapıldığı Tarih : Date of Test	11.12.2023 / 21.02.2024
Uygulanan Standart Metot : Applied Standard/Method	TS EN 13501-2:2016 - TSE veya Özel Deney Başvurusu
Raporun Sayfa Sayısı : Number of pages of the report	6
Deney Sonucu : Test Result	-
Açıklamalar : Remarks	2023-252368 talep numarası ile gelen 53998 numaralı sınıflandırma raporunun İngilizce çevirisidir. / It is english translation of 53998 numbered classification report, requested with 2023-252368 request number.

Yukarıda tanımlanan numune için laboratuvarımızda yapılan muayene ve deneylerden elde edilen sonuçlar müteakip sayfalarda verilmiştir.
The testing and /or measurement results are given on the following pages which are part of this report.

Deney laboratuvarları olarak faaliyet gösteren TSE Deney ve Kalibrasyon Merkezi Başkanlığı Deney Laboratuvarları TÜRKAK'tan AB-0001-T ile TS EN ISO/IEC 17025:2017 standardına göre akredite edilmiştir.
TSE Headship of Test and Calibration Center Testing Laboratories accredited by TÜRKAK under registration number AB-0001-T for TS EN ISO/IEC 17025:2017 as test laboratory.
TÜRKAK deney raporlarının tanınırlığı konusunda Avrupa Akreditasyon Birliği (EA) ile Çok Taraflı Anlaşma ve Uluslararası Laboratuvar Akreditasyon Birliği (ILAC) ile karşılıklı tanıma anlaşması imzalamıştır.
TÜRKAK is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and to the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA) for the 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.

	Tarih Date 21.02.2024	Deney Sorumlusu Person in charge of test ERDEM ÇELİK	Kontrol Eden Reviewer ALİ KATIRCI	Onaylayan Approved by YUSUF GÖKŞEN
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Bu rapor, hazırlayan laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz. İmzasız ve karekodsuz 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.

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Doğrulama adresi: <https://basvuru.tse.org.tr/uye/QRKodDogrulama?code=438209>



MUAYENE – DENEY SONUÇLARI TEST RESULTS



TÜRK STANDARDLARI ENSTİTÜSÜ
TURKISH STANDARDS INSTITUTION

CLASSIFICATION OF FIRE RESISTANCE
IN ACCORDANCE WITH TS EN 13501-2:2016

Required by : İNNOVA ENDÜSTRİ ÜRETİM İÇ VE DIŞ TİCARET ANONİM
ŞİRKETİ

Prepared by : TSE KAYSERİ LABORATORY MANAGEMENT
(Organized Industrial Area 10th Street No:4 Melikgazi /KAYSERİ)

Product Name : Single-leafed Fire Exit Door

Classification Report Number : 53998

Test Report Number : 53984

Date of Report : 21.02.2024

This classification report consists of 6 (six) pages and may only be used in reproduced in part or all.



MUAYENE – DENEY SONUÇLARI TEST RESULTS

1. INTRODUCTION

This classification report defines the resistance to fire classification assigned to element was produced by “İNNOVA ENDÜSTRİ ÜRETİM İÇ VE DIŞ TİCARET ANONİM ŞİRKETİ” which has rock wool and dimensions were indicated in the following drawings, in accordance with the procedures given in TS EN 13501- 2:2016.

2. DETAILS OF CLASSIFICATION REPORT

2.1. General

The elements are described as fire exit door.

2.2. Description

The element, fire exit door, is fully defined in the test report used in support of the classification listed in Article 3.1.

3. TEST REPORTS THAT SUPPORT CLASSIFICATION / EXTENDED APPLICATION REPORTS AND TEST RESULTS

3.1. Test Reports / Extended Application Reports

Name of Laboratory	Name of Sponsor	Report Reference Number	Test Method and Date / Extended Application Rules Field and Date
Kayseri Laboratory Fire Section	İNNOVA ENDÜSTRİ ÜRETİM İÇ VE DIŞ TİCARET ANONİM ŞİRKETİ	53984	TS EN 1634-1+A1:2018

3.2. Results

TS EN 1634- 1+A1:2018 DATE: 21.02.2024 NUMBER: 53984	INTEGRITY (E) Continuous Flaming Gap Gauges Cotton Pad	No failure for 133 minutes. No failure for 133 minutes. No failure for 133 minutes.
	INSULATION (I ₂)	No failure for 133 minutes.
	RADIATION (W)*	NO measurement was taken. *Radiation (W) value is valid for same period of Insulation (I ₂) was satisfied.



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4. CLASSIFICATION AND FIELD OF APPLICATION

4.1. Reference to Classification

This classification has been carried out in accordance with Clause 7 of TS EN 13501-2:2016.

4.2. Classification

The element, fire exit door, is classified according to the following combinations of performance parameters and classes as appropriate.

R	E	I	W		t	-	M	C	S	IncSlow	sn	ef	r
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FIRE RESISTANCE CLASSIFICATION

E 120

EI₂ 120

EW 120

4.3. Direct Field of Application of Test Results

Direct application field of fire test results is restricted with only changes that defined at test sample after valid successful fire test. These changes are automatically accepted without additional evaluation, calculation or approval.

Allowed Dimension Changes

4.3.1 According to Product Type

4.3.1.1 Change of Dimension

Change at test specimen;

It is limited with reduction to 50% width and 75% height of the tested specimen at insulated door sets (EI₂ 120)

E 120, EI₂ 120 values are **Category “B”** values. It is allowed to increase dimensions for these classifications.

It is allowed to increase dimension height % 15, width % 15, area % 20. For door system these changes are:

Door size increase is permitted up to

Area – **27885 cm²** (upper limit area for increasing dimensions)

Height – **246,675 cm**,

Width – **118,45 cm** limited.

The maximum permissible clearances for this fire exit door are; **6 mm** for fire exit door and the upper frame, **6 mm** for fire exit door and the subframe, **6 mm** for fire exit door and the hinges and **6 mm** for fire exit door and the lock. Furthermore, the minimum size of the initial gaps can be reduced. This fire exit door set can have a minimum clearance of less than **3 mm**.

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4.3.1.2. Other Changes

For smaller door set sizes the relative positioning of movement restrictors (e.g. hinges, latches, etc.) shall remain the same as tested or any change to the distances between them will be limited to the same percentage reduction as the decrease of test specimen size.

For larger door set sizes the following shall also apply:

- the height of the latch above floor level shall be equal to or greater than the tested height, and the maximum of any change in height shall be proportional to the increase in door set height (≥ 875 mm)
- the distance of the top hinge from the top of shaft leaf shall be equal to or less than that tested, (≤ 130 mm)
- the distance of the bottom hinge from bottom of shaft leaf shall be equal to or less than that tested, (≤ 130 mm)
- where three hinges or distortion preventers are used, the distance between the bottom of the door leaf and center restraint shall be equal to or greater than that tested. (≥ 1350 mm)

4.3.2 Special Restrictions on Materials and Structures (Metal Structures)

- The dimensions of metal wrap around frames may be increased to accommodate increased supporting construction thickness. The thickness of the metal may also be increased by up to 25 %.
- The type of metal shall not be changed from that tested.
- The number of stiffening elements for uninsulated door sets and the number and type of fixings of such members within the panel fabrication may be increased proportionally with the increase in size but shall not be reduced.

4.3.3 Decorative Finishes

a) Paint

Where the paint finish is not expected to contribute to the fire resistance of the door set alternative paints are acceptable and may be added to leaves or frames for which unfinished test specimens were tested.

b) Decorative Laminates

Decorative laminates and timber veneers up to 1,5 mm thickness may be added to the faces (but not the edges) of doors that satisfy the insulation criteria.

4.3.4 Fixings

The number of fixings used to attach door sets to supporting constructions may be increased but shall **NOT** be decreased and the distance between fixings may be reduced but shall **NOT** be increased.

4.3.5 Hardware

The number of hinges and dog bolts may be increased but shall **NOT** be decreased.

Note 1: The number of movement restrictors such as locks and latches are **NOT** covered by direct application.

This door set has been tested with a door closing device fitted, but with the retention force released in accordance with TS EN 1634-1+A1:2018 Clause 10.1.4, the door set may be provided either with or without that closing device, i.e. where self-closing characteristics are not required.

Note 2: Interchange of building hardware is **NOT** covered by the field of direct application.



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Supporting Structure

4.3.6. Rigid Standard Support Structure (Low Density)

The fire resistance of a door set tested in a high- or low-density rigid standard supporting construction as specified in TS EN 1363-1:2020 can be applied to a door set mounted in the same manner in a wall provided the density and the thickness of the wall are equal to or greater than that in which the door set was tested.
($\geq 450 \text{ kg/m}^3$)

4.3.7. Specific Rules for Hinged or Pivoted Door Sets

For insulated metal door leaves hung in metal frames there is no applicability of results in rigid standard supporting construction to flexible constructions or vice versa.

5. LIMITATIONS

This classification document does not represent type approval or certification of the product.

Prepared by

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Approved by

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