TÜRK STANDARDLARI ENSTİTÜSÜ
DENEY ve KALİBRASYON
MERKEZİ BAŞKANLIĞI
YAPI MALZEMELERİ YANGIN VE AKUSTİK
LABORATUVAR MÜDÜRLÜĞÜ

TURKISH STANDARDS INSTITUTION
HEADSHIP OF TSE TEST and CALIBRATION CENTER
CONSTRUCTION MATERIALS FIRE AND ACOUSTICS LABORATORY

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

AB-0001-T
276716
09-22

MUAYENE VE DENEY RAPORU
TEST REPORT

Deneyi Talep Eden/Firma : ***(Adı, Adresi, Şehir vb.)*** *Requesting/Customer (Name, Adress, City etc.)*	İZOGUARD İZOLASYON VE İNŞAAT SANAYİ TİCARET LİMİTED ŞİRKETİ
Deney Talep Tarih / No : *Order Date/No.*	26.07.2022 / 2022-133464
Numunenin Tanımı : ***(Cins, Marka, Sınıf, Tip, Tür, Model vb.)*** *Sample Description (Type,Mark,Class,Model etc.)*	2022-215088, Phenolic Baked Fiber Felt., İzoTon, 140x200 cm, 2.00, adet
Numune Kabul Tarihi : *Sample Receipt Date*	02.08.2022
Deneylerin Yapıldığı Tarih : *Date of Test*	23.08.2022 / 09.09.2022
Uygulanan Standart Metot : *Applied Standard/Method*	TS EN 12667 Determination of thermal resistance - Products of high and medium thermal resistance
Raporun Sayfa Sayısı : *Number of pages of the report*	3
Deney Sonucu : *Test Result*	-
Açıklamalar : *Remarks*	

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.
TURKAK 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.

Karekod *QR Code*	**Tarih** *Date*	**Deney Sorumlusu** *Person in charge of test*	**Kontrol Eden** *Reviewer*	**Onaylayan** *Head of Laboratory*
	09.09.2022	ENGİN YILDIZ	CEREN KEZBAN GÜLPINAR	SENCER GÜVEN

MUAYENE - DENEY SONUÇLARI *TEST RESULTS*

Request No : 2022-133464
Sample No : 2022-215088
Brand [a] : ‘‘İzoTon’’
Product Code [a] : ‘‘-’’
Sample Description [a] : ‘‘Phenolic Baked Fiber Felt.’’
Inspection Type : Special Test Request
Laboratory Conditions : (23±1)°C Temperature, (50±3)% Relative Humidity.

[a]: Client declaration.
Note: The sample(s) were taken by the customer and delivered to the laboratory.

Applied Test Methods	
Number	**Standard Title**
TS EN 12667:2003	Thermal Performance of Building Materials and Products - Determination of Thermal Resistance By Means of Guarded Hot Plate and Heat Flow Meter Methods - Products of High and Medium Thermal Resistance

TS EN 12667:2003 Thermal Performance of Building Materials and Products - Determination of Thermal Resistance By Means of Guarded Hot Plate and Heat Flow Meter Methods - Products of High and Medium Thermal Resistance

Test Completion Date: 25-Aug-2022

Temperature Difference Between the Surfaces of Test Sample	Mean Temperature	Thermal Conductivity Value, λ	Requirement (Customer Declared Value) λ_D	Assessment
10,2 K	10,0 ºC	*0,0364 W/(m·K)*	-	-

Density of Test Sample Before Test (kg/m3) : 73,5 kg/m³
Conditioning of test sample before test:Test sample conditioned at (23±2)°C and (50±5)% RH until become constant weight.

Measurement Uncertainty for Thermal Conductivity Value (k = 2 for 95% confidence interval): ± 0,0006 W/(m·K)

Details of Test		
	Product Standard of Test Sample	-
Characteristics of Apparatus	Type of Apparatus and Device	Single specimen testing apparatus
	Used Test Device	Heat Flow Meter (HFM)
	Method of Reduce Edge Heat Losses	Isolated from laboratory conditions
	Position of Test Specimen	Horizontal
	Hot Surface Position of Test Specimen	Top
	Direction of Heat Flow	Downwards

MUAYENE - DENEY SONUÇLARI *TEST RESULTS*

Characteristics of Certified Standard Refecence Material for Calibration	Type	IRMM 440-B Glass Wool
	Certified By	IRMM (Institute for Reference Materials and Measurements)
	Certification Number	S 127 D-42
	Thermal Resistance, m^2.K/W	1,124
	Certification Date	26-Feb-2021
	Expiration of Calibration Time	25-Feb-2026
	Last Calibration Date of Heat Flow Meter Apparatus	1-Aug-2022
Before Test	Specimen Width (mm)	501
	Specimen Length (mm)	503
	Specimen Thickness Measured by Device (m)	0,0433
	Applied Load by Plates of Testing Device to Specimen Surfaces (N)	150
	Relative Mass Change During Conditioning, Δm_c	0,000
	Ambient Temperature Surrounding the Device During Test (ºC)	(23 ± 1) ºC
	Ambient Temperature Surrounding the Test Specimen during Test (ºC)	(10 ± 1) ºC
	Use of Contact Sheets	Not Used.
	Characteristics of Water Vapour Tight Envelopes	Not Used.
After Test	Specimen Thickness Measured by Device (m)	0,0433
	Relative Mass Change During Test, Δm_w	0,00190
	Thickness Change During Test	0,0
	Volume Change During Test	0,0
	Duration of Full Test	3 hour(s) 54 minutes
	Duration of Stedy State Part of Test (If product standard consider it necessary)	-
	Density of Heat Flow Rate (W/m2)	8,61
	Thermal Resistance, R ($m^2 \cdot K/W$)[b]	0,397

[b] *In order to reach minimum measurement thickness, 3 samples were placed on top of each other and tested. The Thermal Resistance Value found is valid for a single sample with an average thickness of 14,43 mm.*

ABBREVIATIONS:

Neither test nor assessment is done	(-)
This test is not requested	(NR)
This test is not applicable for this sample	(NA)
This test could not be done with the capability of the laboratory	(X)
This test is not evaluated since declariton/conditions are not stated	(ND)
This test is not done due to the breakdown of the equipment	(EB)
This result complies with the stated condition(s)	(C)
This result does not comply with the stated condition(s)	(NC)

End of the test report.