



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



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

AB-0001-T
403101
04-18

Deneysel Talep Eden : QATAR MINERAL FIBERS
(Adı, Adresi, Şehir vb.)
Customer (Name, Address, City etc.)

Deneysel Talep Tarihi/No : 03.04.2018 / 210004
Order Date / No

Numunenin Tanımı : 398521, TAŞYÖNÜ, QATAR MINERAL FIBERS, KALINLIK: 50 mm, YOĞUNLUK: 100 kg/m³, . . . , 3 00 adet
(No, Cins, Marka, Tip, Tür, Model vb.)
Sample Description (No, Type, Mark, Model etc.)

Numune Kabul Tarihi : 03.04.2018
Test Item Receipt Date

Deneysel Yapıldığı Tarih : 09.04.2018 - 20.04.2018
Date of Test

Uygulanan Standard / Metod : TS EN 29053 : 1996-04 Akustik-Akustik uygulamaları için malzemeler hava akışı direncinin tayini
Applied Standard/Method
TS EN 29053 : 1996-04 Acoustics-Materials For Acoustical Applications-Determination of Air Flow Resistance

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.

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Deneysel Sorumlusu
Person in charge of tests
Fatih ÖZTÜRK
Uzman Yardımcısı

Kontrol Eden
Reviewer
Sencer GÜVEN
Teknik Şef

Onaylayan
Approved by
Metehan ÇALIŞ
Laboratuvar Müdürü

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MUAYENE - DENEY SONUÇLARI TEST RESULTS
TS EN 29053:1996

Test Laboratory (Name-Address)	TSE Construction Materials Fire and Acoustic Laboratory Aydınlı Mah. Gülecnur Sokak No:7/1
Requested by (Name-Address)	QATAR MINERAL FIBERS P.O.BOX:202086 FACTORY:339 NEW INDUSTRIAL AREA-DOHA-QATAR
Manufacturer	QATAR MINERAL FIBERS
Test Sample	Qatar Mineral Fibers branded Rockwool with 50 mm thickness and 100 kg/m ³ density

1. Introduction

At the request of **QATAR MINERAL FIBERS** air flow resistivity measurements were carried out on 16.04.2017 for *Qatar Mineral Fibers branded Rockwool with 50 mm thickness and 100 kg/m³ density* at the acoustic department of TSE Construction Materials Fire and Acoustic Laboratory according to "TS EN 29053/1996: **Acoustics-Materials For Acoustical Applications-Determination of Air Flow Resistance**" standard.

2. Test specimen

The specimen was prepared by the client.

Date of production: -

Test specimen arrival date to the laboratory: 04/2018

2.1 Description of the test specimen

Description of the product: Qatar Mineral Fibers branded Rockwool with 50 mm thickness

Made of: Rockwool

Density: 100kg/m³

Number of test specimen: 3 test specimens from 3 different plaques.

	Diameter (mm)	Thickness (mm)
Dimensions	100	50
	100	50
	100	50

*Product specifications are based on client declaration.

2.2 Installation of the test specimen

In order to obtain proper dimensions, specimens were cut using special equipment. According to the standard, three samples were produced from 3 different plaques. Samples were mounted on sample holder in a way that there is no gap between sample and sample holder. Photos that show sample and its mounting were presented at the end of the report. All samples were conditioned in the same environment at least 24 hours prior to testing.



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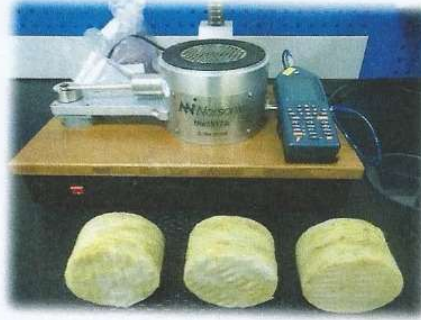
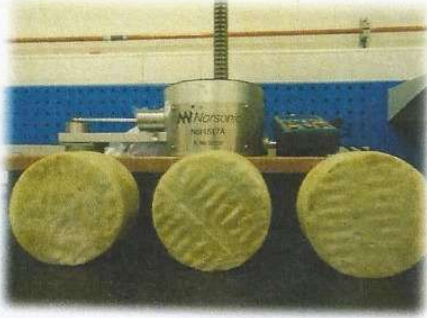
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PHOTOS OF SAMPLES AND TEST EQUIPMENT



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3. Method

Tests were carried out with a device that has appropriate equipment and cylindrical measurement cell. Alternating air flow method was used during tests. The lower limit of the air flow velocity is $u = 0,5 \times 10^{-3}$ m/s. Samples were mounted on the device in a way that was mentioned 2.2. One specimen was tested for each plaque, and the results were averaged.

4. Results

Results were presented in the table below according to TS EN 29053/1996.

Measurement	Sample			Average	Standard Deviation
	1	2	3		
R (Pa s/m ³)	61.146	59.873	57.834	59617,83	1670,68
Rs (Pa s/m)	480	470	454	468,00	13,11
r (Pa s/m ²)	9.600	9.400	9.080	9360,00	262,30

where;

R (Pa s/m³) : Air flow resistivity

Rs (Pa s/m) : Specific air flow resistivity,

r (Pa s/m²) : Air flow impedance

As a Result;

Air flow resistivity (R)=59.617,83 Pa s/m³

