



TSE DENEY ve KALİBRASYON MERKEZİ BAŞKANLIĞI
Yapı Malzemeleri ve Kimya Laboratuvar Grup Başkanlığı (Gebze)
Yapı Malzemeleri Laboratuvarı Gebze Müdürlüğü

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HEADSHIP OF TSE TEST and CALIBRATION CENTER
CONSTRUCTION MATERIALS LABORATORY (GEBZE)

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250352

03-15

MUAYENE VE DENEY RAPORU
TEST REPORT

Deneyi Talep Eden (Adı, Adresi, Şehir vb.)	:	NEVRA İNŞ YAPI TEKNOLOJİLERİ SAN VE TIC.LTD.ŞTİ.
Customer (Name, Address, City etc.)	:	(NEVRA İNŞ YAPI TEKNOLOJİLERİ SAN VE TIC.LTD.ŞTİ.: BAĞDAT CAD.ÇOLAKOĞLU İŞ MERKEZİ NO:458/22 34846 MALTEPE/İSTANBUL --İSTANBUL)
Deney Talep Tarihi/No Order Date / No	:	12.03.2015 / 125461
Numunenin Tanımı (Cins, Marka, Tip, Tür, Model vb.)	:	Magnezyum Oksit Esaslı Yapı Paneli, NevPanel® MgO Esaslı Yapı Paneli, - , - , - , 2,00 adet
Sample Description (Type, Mark, Model etc.)	:	Magnesium Okside Based Construction Panel, NevPanel® MgO Based Construction Panel, - , - , - , 2,00 item
Numune Kabul Tarihi Test Item Receipt Date	:	09.03.2015 Sampling was done by manufacturer
Deneylerin Yapıldığı Tarih Date of Test	:	09.03.2015 - 26.03.2015
Uygulanan Standard / Metod Applied Standard/Method	:	TS EN ISO 1182:2010-07 Yapı mamullerinin yangın deneylerine tepkisi - Tutuşmazlık deneyi TS EN ISO 1182:2010-07 Reaction to fire tests for products - Non-combustibility test
Raporun Sayfa Sayısı Number of pages of the report	:	5 (4 sayfa ek)
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.

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
Alpay SUMER
Uzman Yardımcısı

Kontrol Eden
Reviewer
Sencer GÜVEN
Teknik Şef

Onaylayan
Approved by
Sencer GÜVEN
Teknik Şef V.

Bu rapor, hazırlayan laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz. İmzasız ve mühürlü 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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EK

TEST RESULTS

TS EN ISO 1182 Reaction to Fire Tests For Products

Non-combustibility Test

Test Sponsor (Name&Address)	Nevra İnşaat Yapı Teknolojileri San. Ve Tic. Ltd. Şti.
Sample Manufacturer (Name&Address)	Nevra İnşaat Yapı Teknolojileri San. Ve Tic. Ltd. Şti.
Date of test	18.03.2015

Sample Details

Date of arrival	05.03.2015
Sponsor's sample ID	NevPanel® MgO Esaslı Yapı Paneli
Sponsor's description	Magnesium Oxide Based Construction Board 12mm * 60 cm * 60cm
Declared Properties of the Material	
Mass per unit area (kg/m²)	11.40
Thickness (mm)	12
Density (kg/m³)	950
Inspection Findings	
Mass per unit area (kg/m²)	11.80
Thickness (mm)	12
Density (kg/m³)	980

Sampling

A 12 mm thick 60 cm * 60 cm board was sent by the manufacturer. From this board, 20 circular samples with average diameter of 45 mm were cut by using a 50 mm carbide core drill bit. Final samples were constructed by putting 4 of these disks one on top of another.

Conditioning

Samples were conditioned at 23 °C and 50% relative humidity for a period of 310 hours.

Deviations from the test method

The test method was applied without any deviation.

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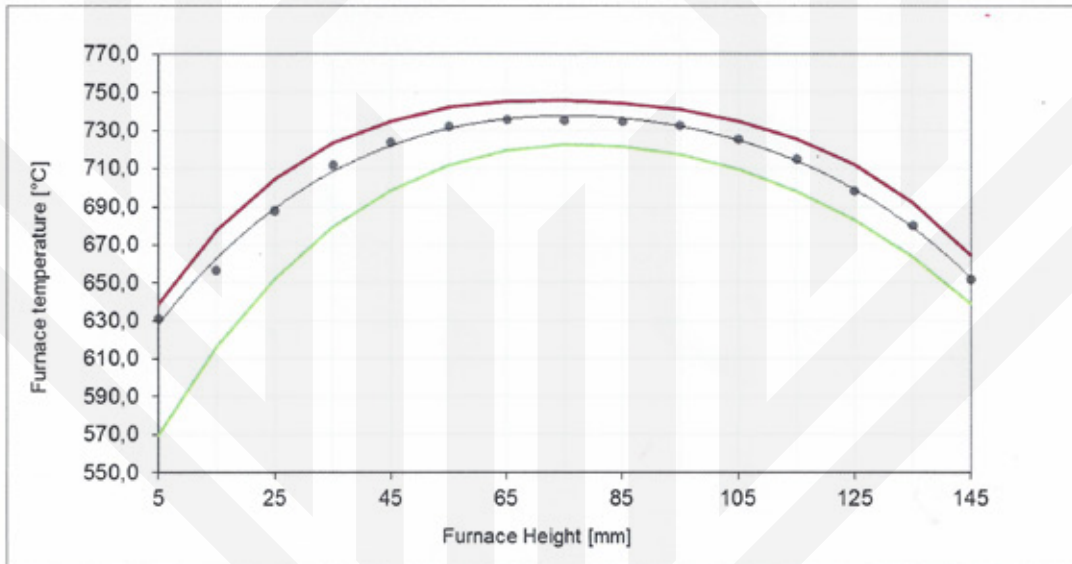
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TEST RESULTS

Furnace Temperature Calibration Results

Height [mm]	Tdown [°C]	Tup [°C]	Tmin [°C]	Tmean [°C]	Tmax [°C]
5	619,64	643,06	569,5	631,4	638,6
15	640,56	673,18	616,2	656,9	677,5
25	672,80	703,16	652,2	688,0	704,9
35	701,50	721,82	679,3	711,7	723,5
45	715,78	732,16	698,8	724,0	735,3
55	725,76	739,02	711,9	732,4	742,2
65	731,36	740,50	719,6	735,9	745,5
75	731,24	739,46	722,7	735,4	746,1
85	730,86	738,80	721,8	734,8	744,7
95	730,44	734,62	717,3	732,5	741,1
105	723,16	727,70	709,3	725,4	735,1
115	713,22	717,08	697,9	715,2	725,8
125	695,58	701,42	682,8	698,5	712,2
135	682,08	678,06	663,5	680,1	692,6
145	649,40	654,96	639,4	652,2	664,9



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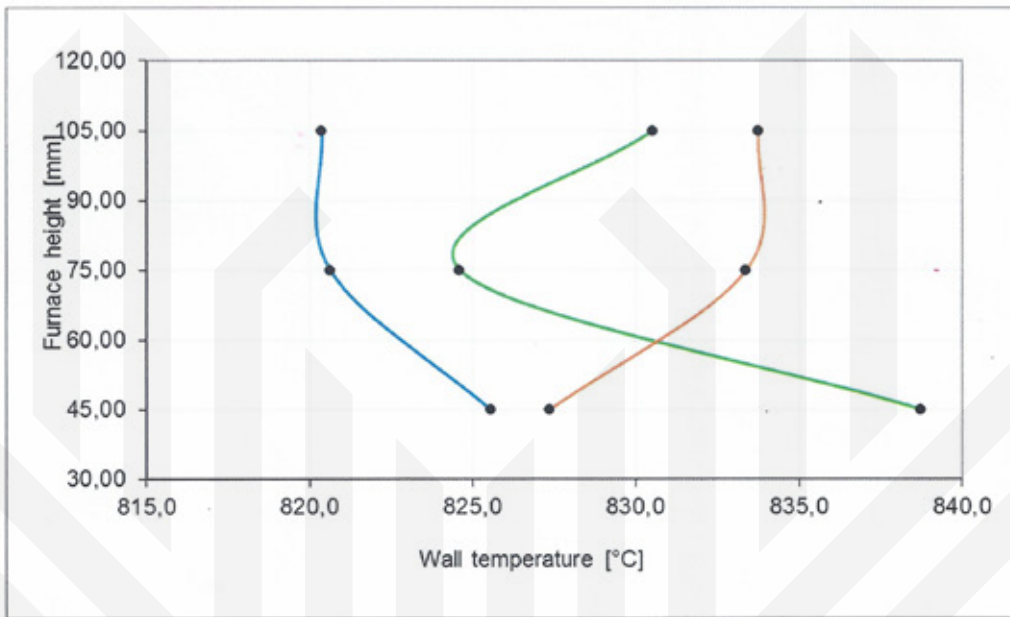
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TEST RESULTS

Furnace Wall Temperature Calibration Results

	Axis 1	Axis 2	Axis 3	Mean Level	Deviation Level
Level 1 (105mm)	830,5	833,8	820,4	828,22	0,012
Level 2 (75mm)	824,6	833,4	820,6	826,20	0,256
Level 3 (45mm)	838,7	827,4	825,5	830,55	0,269
Mean Axis	831,29	831,50	822,17	828,32	0,18
	828,32				
	0,495			OK	OK
Deviation Axis	0,359	0,384	0,742		



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TEST RESULTS

Results

Mass Loss					
Samples	1	2	3	4	5
Initial Mass (g)	69.38	69.79	69.44	67.30	68.90
Final Mass (g)	36.31	36.82	36.52	36.05	36.32
Mass Loss (%)	47.6	47.7	47.4	46.4	46.6

Sustained Flaming					
Samples	1	2	3	4	5
Duration	0	0	0	0	0

Sustained flaming accounts for the sum of the durations of any occurrence of flames sustained more than 5 seconds.

Furnace Temperature Rise					
Samples	1	2	3	4	5
T_m (°C)	775.4	752.5	754.1	761.7	759.2
T_f	772.2	751.4	745.1	758.5	754.9
ΔT (°C)	3.2	1.1	9.0	3.2	4.3

T_m : Maximum temperature over the entire test period.

T_f : Average temperature over the final 1 minute of the test period.

Specimen Temperature Rise					
Samples	1	2	3	4	5
T_c (max, °C)	1041.6	1041.3	1000.6	1038.1	1044.7
T_c (final, °C)	800.2	765.9	780.3	779.0	792.3
ΔT_c (°C)	241.4	275.4	246.1	259.1	252.4
T_s (max, °C)	794.3	753.1	780.3	763.7	758.0
T_s (final, °C)	782.1	747.3	779.1	761.7	751.9
ΔT_s (°C)	12.2	5.8	1.2	2.0	6.1

T_c (max): Maximum temperature recorded by specimen center thermocouple over the entire test period.

T_c (final): Average temperature recorded by specimen surface thermocouple over the final 1 minute of the test period.

T_s (max): Maximum temperature recorded by specimen surface thermocouple over the entire test period.

T_s (final): Average temperature recorded by specimen surface thermocouple over the final 1 minute of the test period.

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

End of test results

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