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Yapı Malzemeleri ve Kimya Laboratuvar Grup Başkanlığı (Gebze)
Ege Bölge Laboratuvarları Müdürlüğü

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

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208262

01-14

MUAYENE VE DENEY RAPORU
TEST REPORT

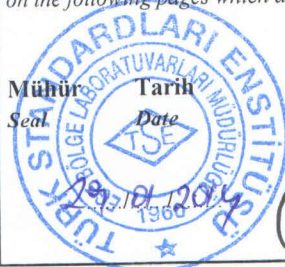
Deneysel Talep Eden (Adı,Adresi,Şehir vb.) <i>Customer (Name,Address, City etc.)</i>	:	UCM KOMPOZİT YAPI MALZ. SAN. TİC. A.Ş. Tavşantepe Mevkii Temel Kaya Cad. Çorlu-TEKİRDAĞ
Deneysel Talep Tarihi/No <i>Order Date / No</i>	:	30.10.2013 / 97244
Numunenin Tanımı (Cins, Marka, Tip, Tür, Model vb.) <i>Sample Description (Type,Mark,Model etc.)</i>	:	CEPHE LAMBIRI PROFİLİ, THERRAWOOD , , - , - , 1.00 paket Wood Composite Cladding Profiles, THERRAWOOD, , , 1,00 package
Numune Kabul Tarihi <i>Test Item Receipt Date</i>	:	28.10.2013
Deneysel Yapıldığı Tarih <i>Date of Test</i>	:	28.10.2013 - 28.01.2014
Uygulanan Standard / Metod <i>Applied Standard/Method</i>	:	TS EN ISO 11925-2:2010 :2011-04 Yangın dayanımı deneyleri – Alev doğrudan maruz kaldığında tutuşabilirlik – Bölüm 2: Tek alev kaynağıyla deney +TS EN ISO 11925-2:2010/AC:2011 :2011-04 TS EN ISO 11925-2:2010 :2011-04 Reaction to fire tests - Ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test +TS EN ISO 11925-2:2010/AC:2011 :2011-04
Raporun Sayfa Sayısı <i>Number of pages of the report</i>	:	2
Açıklamalar <i>Remarks</i>	:	Bu rapor 30.12.2013 tarih ve 205322 sayılı Türkçe raporun çevirisi olup söz konusu rapordaki sonuçlar esas alınmıştır. Yeni bir deney yapılmamıştır. This report 30.12.2013 dated and 205322 numbered translation of the Turkish report, result same with Turkish report there has not been a new test

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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.



Deneysel Sorumlusu
Person in charge of tests

Önder Volkan BALCI
Tekniker

Kontrol Eden
Reviewer

Figen YAŞAR
Mühendis

Onaylayan
Approved by

Şahap Gürler PAŞA
Laboratuvar Müdürü

Bu rapor, hazırlayan laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz. İmzasız ve mühürsüz raporlar geçersizdir.

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TS EN ISO 11925-2 : 2010 / April / Nisan 2011

Reaction to fire tests - Ignitability of products subjected to direct impingement of flame
Part 2: Single-flame source test

Yapı Malzemeleri – Yangın Dayanımı Deneyleri – Alev Doğrudan Maruz Kaldığında Tutuşabilirlik -Bölüm 2: Tek Alev Kaynağıyla Deney

Test Laboratory / Laboratories : DKMB Ex Laboratuvarı

Address: 8780 /1 Sokak No:5 Çiğli / İZMİR

Decisions to be Taken in Consequence of Inspections and Tests :

If Related Rule/Test not necessary to be applied to the Specimen (Unapplied to Specimen) : US
If the Tested Specimen Conforms to the Rules (Passed) : P
If the Tested Specimen does not conform to the Rules (Failed) : F
If there is a Rule/Test that could not be Applied due to Any Reason (Undone) : U

General Evaluations :

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COMPANY NAME : UCM KOMPOZİT YAPI MALZ. SAN.TİC.A.Ş.
COMPANY ADDRESS : Çorlu TEKİRDAĞ
COMPANY STATEMENTS / DESCRIPTION OF THE SAMPLE: “THERRAWOOD” Trademark
Wood composite cladding profiles

Related Product Standard and Citations: Reaction to Fire Test (EN 13501-1 D Class)

Conditioning Details: Test samples conditioned according to EN 13238 clause 4.3.b, 23±2°C temperature and 50±5% relative humidity. (TS EN ISO 11925-2 Clause 6.)

Class D (TS EN 13501-1 Clause 8.)	The test sample is subjected to the tests for determine the suitability of Class D, the flame application time is 30 s (the total test duration is 60 s) according to the EN ISO 11925-2.
Test Sample (TS EN ISO 11925-2 Clause 5)	Length: 250 mm , Width: 90 mm , Thickness: 16 mm
Exposure Conditions (TS EN ISO 11925-2 Clause 7.3.3)	The test sample was exposed to the flame(application time is 30 s) from the surface and edge.

Test Results (TS EN ISO 11925-2 Clause 8.)

Number of samples	1	2	3	4	5	6
Combustion (Yes/No)	No	No	No	No	No	No
Surface						
Edge						
Flame spread to 150 mm (Yes/No)	No	No	No	No	No	No
150mm Flame Spread Time(T150) Test Duration $F_s \leq 150$ mm -Passed Test Duration $F_s \geq 150$ mm - Failed	-	-	-	-	-	-
Combustion filter paper (Yes/No)	No	No	No	No	No	No
CONCLUSION	P	P	P	P	P	P
Observations	Combustion was not on the samples. Flame did not reach 150mm measuring line in the test period. Dripping did not occur, melting and burning did not occur, combustion on filter paper did not occur.					

RESULT: Test samples tested according to TS EN ISO 11925-2 :2010 / April 2011 Standard.

“This test result relates to the behavior of the test sample is applied under special conditions. This test result is not the only relevant criterion for the product's evaluation of a potential fire hazard.”





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

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208006

01-14

MUAYENE VE DENEY RAPORU
TEST REPORT

Deneyi Talep Eden (Adı, Adresi, Şehir vb.) <i>Customer (Name, Address, City etc.)</i>	:	UCM KOMPOZİT YAPI MALZ. SAN. TİC. A.Ş. Tavşantepe Mevkii Temel Kaya Cad. Çorlu-TEKİRDAĞ
Deney Talep Tarihi/No <i>Order Date / No</i>	:	30.10.2013 / 97244
Numunenin Tanımı (Cins, Marka, Tip, Tür, Model vb.) <i>Sample Description (Type, Mark, Model etc.)</i>	:	CEPHE LAMBIRI PROFİLİ, THERRAWOOD, , - , - , 1,00 paket Wood Composite Cladding Profiles, THERRAWOOD, , , 1,00 package
Numune Kabul Tarihi <i>Test Item Receipt Date</i>	:	28.10.2013
Deneyle ilgili Yapıldığı Tarih <i>Date of Test</i>	:	28.10.2013 - 28.01.2014
Uygulanan Standard / Metod <i>Applied Standard/Method</i>	:	TS EN 13823:2010 :2011-01 Yapı Ürünleri İçin Yangına Tepki Deneyle Tek Bir Yakma Unsuru İle Isıl Etkiye Maruz Kalan-Döşemeler Haricindeki Yapı Ürünleri TS EN 13823:2010 :2011-01 Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item
Raporun Sayfa Sayısı <i>Number of pages of the report</i>	:	7
Açıklamalar <i>Remarks</i>	:	Bu rapor 30.12.2013 tarih ve 205322 sayılı Türkçe raporun çevirisi olup söz konusu rapordaki sonuçlar esas alınmıştır. Yeni bir deney yapılmamıştır. This report 30.12.2013 dated and 205322 numbered translation of the Turkish report, result same with Turkish report there has not been a new test

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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.



Deney Sorumlusu
Person in charge of tests

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Tekniker

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Reviewer

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Approved by

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TS EN 13823:2010
REACTION TO FIRE TESTS FOR BUILDING PRODUCTS –
BUILDING PRODUCTS EXCLUDING FLOORINGS EXPOSED TO THE THERMAL ATTACK BY A
SINGLE BURNING ITEM

Test Laboratory / Laboratories : DKMB Ex Laboratuvarı

Addresses : 8780 /1 Sokak No:5 Çiğli / İZMİR

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: U

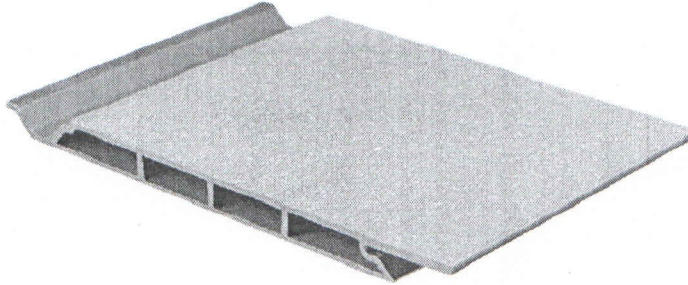
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UCM KOMPOZİT YAPI MALZ. SAN.TİC.A.Ş.

"THERRAWOOD" Trademark

Wood composite cladding profiles



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Bu rapor, hazırlayan laboratuvarın yazılı izni olmadan kısmen veya tamamen çoğaltılamaz. İmzasız ve mühürsüz raporlar geçersizdir. Bu rapor, sadece deneyi yapılan numune için geçerlidir ve "Ürün Belgesi" yerine geçmez.





1. DEFINITION OF THE TEST METHOD

Tests were carried out, without any deviations from the standard, in accordance with TS EN 13823 : January 2011 - Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item standard.

2. DEFINITION OF SPECIMEN

Arrival date of the specimen : 25.11.2013

Definition of the specimen : Wood composite cladding profiles (16mm thickness, 240mm width)

Name of the company that produced the specimen : **UCM KOMPOZİT YAPI MALZ. SAN.TİC.A.Ş.**

Production date of the specimen: --

Name of the company that requested testing : **UCM KOMPOZİT YAPI MALZ. SAN.TİC.A.Ş.**

Trademark of the specimen : "THERRAWOOD"

Company Declarations :

Specimen:	Nominal Values (*)	Measured Values (**)
Thickness (mm)	16	16
Unit area mass (g/m ²)	-	-
Density (kg/m ³)	-	-

(*) Values declared by the company

(**)Values verified by the laboratory

Beginning of conditioning : 30.10.2013

End of conditioning : 25.12.2013 (TS EN 13238 Clause 4.3. c.)

3. CALIBRATION RESULTS

Latest calibration date :

05.12.2013 STEP CALIBRATION

19.02.2013 HEPTANE CALIBRATION

19.02.2013 NOİSE AND DRIFT CALIBRATION

19.02.2013 VELOCITY PROFILE MEASURING

Calibration validity date : 05.01.2014





4. RESULTS AND OBSERVATIONS

Date of test : 25.12.2013

Ambient pressure : 103000 Pa

Ambient relative humidity :50%

Ambient temperature : 23°C

a) Measured Values

Numbers of test specimen:	M2	M3	M4
FIGRA value (W/s)	452,45	349,83	378,17
THR600s (MJ)	55,0	43,6	48,1
SMOGRA value (m ² /s ²)	174,59	121,10	117,9
TSP600s (m ²)	1898,5	1384,8	1180,6

b) Observations

Numbers of test specimen:	M2	M3	M4
Spread of lateral flame in long arm	<u>Occur</u>	<u>Occur</u>	<u>Occur</u>
Fiery bits or driblets f<10s f>10s	Occur	Occur	Occur
State of inflaming of the surface	Occur	Occur	Occur
Flow of smoke emitted by the specimen, coming out of the carriage car into the test room	Did not occur	Did not occur	Did not occur
Bits falling down from the specimen	Occur	Occur	Occur
Formation of gap in the corner (due to failure in fixing support panels)	Did not occur	Did not occur	Did not occur
Early ending of the test	Did not occur	Did not occur	Did not occur
Corruption of the specimen or formation of breakdown	Occur	Occur	Occur

C) Summary of test results:

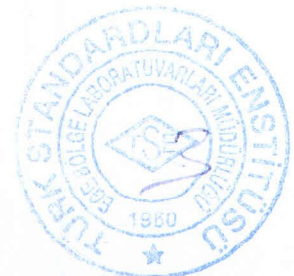
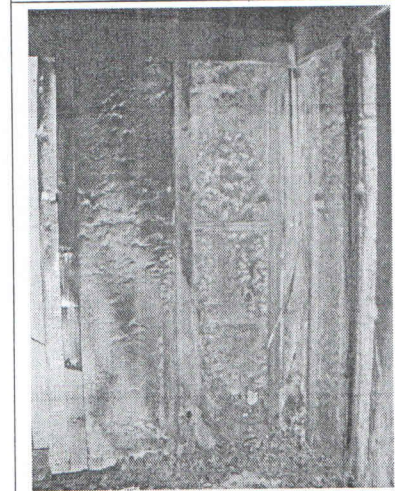
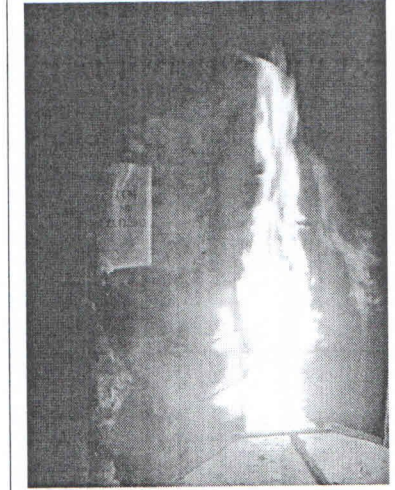
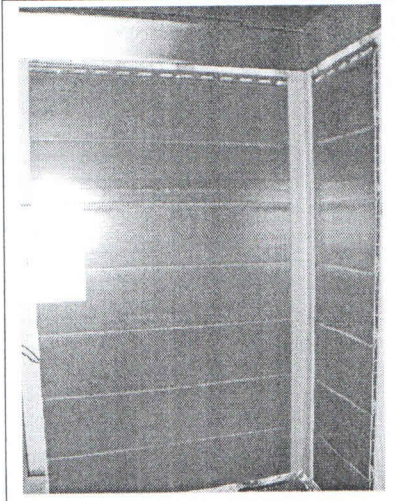
This test result, it is not foreseen that there should be a single criterion in evaluating potential fire risk of a product in use related with the behaviour of test specimen of a product under special conditions that the test is conducted. These test results are valid for the tested specimen.

Average FIGRA value 0,4 (W/s)	393,48
Average THR600s (MJ)	48,9
Average SMOGRA value (m ² /s ²)	137,86
Average TSP600s (m ²)	1487,96
LFS< up to the edge (mm)	<u>Occur</u>
Burning driblets/bits ≤ 10 s	Did not occur
Burning driblets/bits > 10 s	Occur





Photos of the test specimen-



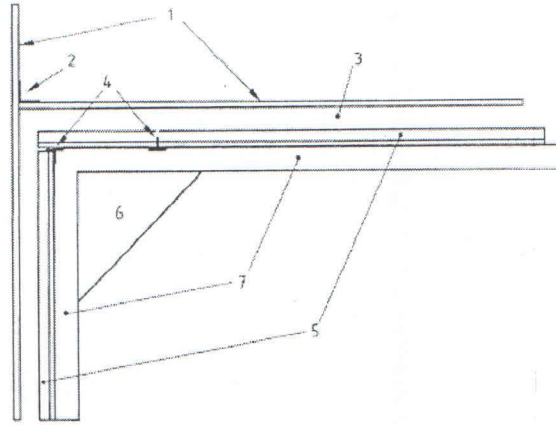
Assembling Properties:

- Fixing of the test specimens:

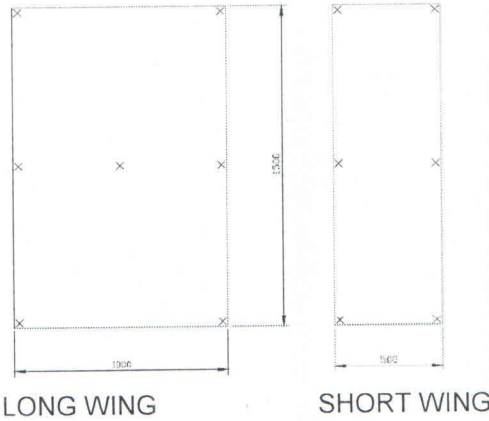
While wood composite cladding profiles were fixing test stand; respectively the rear surface calcium silicate plate as a support plate (12mm thickness, 800kg/m³ density) on the way, support profiles on this plate with 50cm intervals (C carcass profile on the U connecting part) fixed with screw connection and remaining gap between profiles and calcium silicate board is filled with 50mm thick rock wool (50kg/m³). Sample coating profiles horizontally combined with screw connections to steel profile from the point of engagement, thus long and short wing area which require for test is coated. Aluminum outer corner profile has been assembled on the corner junction place and locked with corner closing caps.

- Air Gap : Air gap between support plate and (short and long wing) panels were not left.

- The profile of the surface geometry: Flat



- Açıklama:
1 Destek levhası
2 L-Profil
3 Hava aralığı
4 Eklemler
5 Numune kolları
6 Bak
7 U-profil



LONG WING

SHORT WING



CONCLUSION

Results of this test are relative to behaviour of the product exposed to particular conditions and was not taken as a criterion alone so as to evaluate possible fire risk of the product in use under real conditions.

UCM KOMPOZİT YAPI MALZ. SAN.TİC.A.Ş. company that has produced "THERRAWOOD" Trademark, **Wood composite cladding profiles** sample/samples tested according to TS EN 13823 : January 2011 Standard.

This report and results given in inspection and test report subjected TS EN ISO 11925-2, 01.2014 dated /208262 numbered test report's results **COMPLY** with TS EN 13501-1/ April 2013 Table 1 **D S3 d2** class criteria.

