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HEADSHIP OF TSE TEST and CALIBRATION CENTER CONSTRUCTION MATERIALS FIRE AND ACOUSTICS LABORATORY DIRECTORATE

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TEST REPORT

Requesting/Customer:	HASOĞLU KOMPOZIT YAPI MALZ. VE MAK. SAN. TIC. LTI. ŞTI.: YAYLA MAH. FEVZI
(Name, Address, City etc.)	ÇAKMAK CAD. İHSN EKMEKÇİ SOK. NO: 17/B-TUZLA-İSTANBUL)
Order Date / No:	18.10.2016 / 165029
Sample Description:	
(No, Type, Mark, Model	WOOD COMPOSITE DECK RAISED FLOORING, KANENZO4.00 items
etc.)	
Test Item Receipt Date:	18.10.2016
Date of Test:	18.10.2016 – 01.12.2016
Applied	TS EN ISO 9239-1:2011-01 Reaction of flooring to fire tests – Part 1:
''	Determination of burning behaviour using radiant heat source
Standard/Method:	(ISO 9239-1:2010)
Number of pages of the	5
report:	5
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.

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.

Seal and Date	Person in charge of tests	Reviewer	Approved by
[Seal] 01/12/2016	[Signature]	[Signature]	[Signature]
	Ceran Kezban GÜL	Sencer GÜVEN	Metehan ÇALIŞ
	Ass. Expert	Technical Chief	Laboratory Manager

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This test report represents only tested sample(s), and shall not be used as Product Certificate.



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TEST RESULTS

TS EN ISO 9239-1 Reaction of flooring to fire tests

Part 1: Determination of burning behaviour using radiant heat source

Sponsor	HASOĞLU KOMPOZIT YAPI MALZ. VE MAK. SAN. TIC. LTI. ŞTI.
(Name and Address)	YAYLA MAH. FEVZI ÇAKMAK CAD. İHSN EKMEKÇİ SOK. NO: 17/B-TUZLA-
	istanbul)
Requested by	HASOĞLU KOMPOZIT YAPI MALZ. VE MAK. SAN. TIC. LTI. ŞTI.
(Name and Address)	YAYLA MAH. FEVZI ÇAKMAK CAD. İHSN EKMEKÇİ SOK. NO: 17/B-TUZLA-
	istanbul)
Producer	HASOĞLU KOMPOZIT YAPI MALZ. VE MAK. SAN. TIC. LTI. ŞTI.
(Name and Address)	YAYLA MAH. FEVZI ÇAKMAK CAD. İHSN EKMEKÇİ SOK. NO: 17/B-TUZLA-
	istanbul)
Date of Test	18.10.2016

Sample Details

-			
Sample Receiving Date	24.11.2016		
Name of Sample	"Kanenzo" Trademark Wood Composite Deck Flooring		
Description of Sample	Composite flooring material w mm x 6 m) dimensions, product slots to attach each other, with inside, providing raising from from from footnoted of flooring parts, with patterns and brown wood apports. Vertical Appearance	ced from HDPE, with no fitting in lengthwise empty grooves floor level when installed and ith lengthwise groove line earance. Horizontal Appearance	
Thickness	Composite board with patterns	25.0 mm	
	Grooves inside board	15.0 mm	
Weight per unit area	15.8 kg/m2 (average value measured at laboratory)		

Sample Taking and Preparation

Samples are taken and dimensioned by the producer and sent to laboratory. Samples are located on sample holder with base board but without fixing to base board. Calcium silicate board with dimensions of 1030 mm x 220 mm with specifications given in TS EN 13238:2010 standard is used for base board.

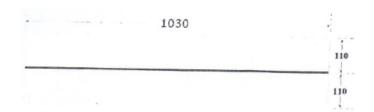
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[Seal and Paraph]



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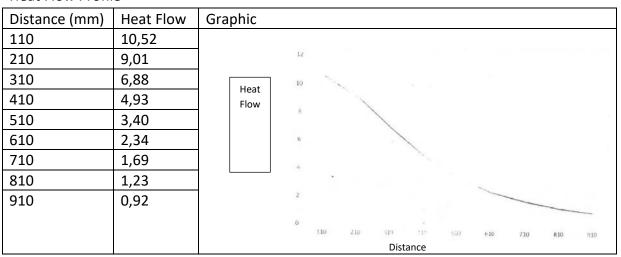
Conditioning

Samples are conditioned for 4 weeks at 23 C and 50% moisture environment before test according to Article 4.3.c of TS EN 13238.

Deviation from Test Method

There is no deviation from test method.

Heat Flow Profile



Results

General

	Sample 1	Sample 2	Sample 3	Sample 4
Period until starting of burning on sample (s)	129	135	141	135
Maximum flame spread (mm)	560	550	540	570
Critical heat flor, CHF (kW/m²)	2,81	2,95	3,06	2,73
Time until maximum flame spread (s)	1800*	1800*	1800*	1800*
Time until dying of flame (s)	1800*	1800*	1800*	1800*

^{*} Flame was died by the operator at the end of test period.

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	Flame Propagation			
Distance to "0"	Time for flame to reach related distance (s)			
point	Sample 1	Sample 2	Sample 3	Sample 4
50	153	153	156	147
100	249	222	228	252
150	321	315	300	309
200	393	390	360	387
250	462	465	420	441
300	543	576	504	531
350	657	711	612	654
400	831	957	822	822
450	1101	1257	1050	1110
500	1410	1554	1482	1475
550	1728	1800	0	1692
600	0	0	0	0
650	0	0	0	0
700	0	0	0	0
750	0	0	0	0
800	0	0	0	0
850	0	0	0	0
900	0	0	0	0

Heat Flow and Smoke Formation				
	Sample 1	Sample 2	Sample 3	Sample 4
HF-10 (kW/m ²)	6,46	6,79	6.35	6,57
HF-20 (kW/m ²)	3,96	4,41	3,82	4,10
HF-30 (kW/m ²)	2,81	2,95	3,06	2,73
CHF (kW/m ²)	2,81	2,95	3,06	2,73
LA _{max} (%)	290,91	201,61	173,92	168,05
TLA _{total} (%.min)	312,07	207,77	180,07	176,46

Critical heat flow average (CHF) : 2,9
Total light attenuation (TLA) : 222

Graphics

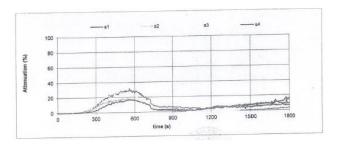


Figure 1 Light attenuation vs time graphic

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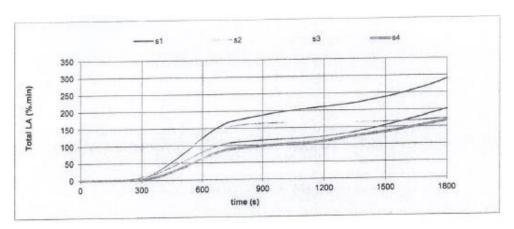


Figure 2 Time vs Light Attenuation Graphic

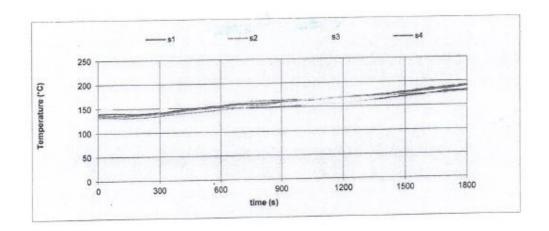


Figure 3 Time vs Temperature Measured inside Cabin Graphic

This test result is related with behaviour of test sample of a product under special conditions of test and is not sufficient as criteria for evaluation of potential fire danger of a product under real usage conditions.

End of test report.