





Report No/ Rapor No: 2023040877/R2

Applicant/Deney Sahibi: ÜÇLER ALÜMİNYUM METAL YAP MALZ. SAN.TİC.LTD.ŞTİ.

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Sample Accepted on / Numune Tarihi: 31.08.2023 **Report Date** / Rapor Tarihi: 04.08.2023 **Total number of pages**/Rapor Sayfa: 5 Page

Sample ID: Alüminyum/Galvaniz Sac Metal Tavan Paneli ve Taşıyıcı

Sistemi

Perforeli, Siyah Akustik Kumaşlı, Elektrostatik Toz boyalı

	TEST	METHOD	RESULT				
	Fire classification of construction products and	•		PASS			
-	building elements-Part 1: Classification using test data from reaction to fire tests.	EN 13501-1	A2	s1	d0		

NOTE: This test result replaces the conformity assessment, can be presented to official institutions, and used in products and brochures.

K.rvefi

ORATORY GRAVICES

Seal Customer Representative Merve Nur KIRVELİ Laboratory Manager Merve ÖZLÜ

Test results, methods and other information about the sample shown in the relevant pages of this Report are based on the information specified in accordance with "Test Request Form (PR03-F01) conveyed to us from the Applicant. Test results are valid for the sample as identified above. Sample may not represent the lot which it belongs. This Report does not replace a Product Certificate. Full report or any part of it may not be reproduced or used for any other purpose without the written permission of EUROLAB Laboratory. Sampling has not been done by us. Unsigned and unsealed Reports are invalid. Analysis as indicated with "** are in the Scope of our Accreditation Certificate issued from UAF according to TS EN ISO/IEC 17020, 17025, Analysis as indicated with "** are performed at the external laboratories using accredited test methods according to EN ISO/IEC 17020, 17025 from UAF. Possible extra notes may add with starting N¹ to related pages. Tested and remaining samples will be keep in specified terms & conditions at test request and/or proposal form. Physically, chemically and microbiologically decomposed samples are discarded regardless of the storage period. Applicant can not claim any right in this regard. Results are shown in this Report do not include Measurement Uncertainty values. Measurement Uncertainty values are not taken in consideration during Pass/Fail assessment the of test results shown in this Report. Evaluation of the test results using Measurement Uncertainty values is the responsibility of the Applicant.

PR33-F01/08.10.2015/Rev:17.01.2017-R01



1. TS EN ISO 13501-1

Building products and structural elements, fire classification. Part 1: Classification by using data obtained from the behavior tests against fire.

This standard covers the behavior of all building products, including products used in combination with structural elements, against flame.

Provisions for Inspection and Test:

If Rule / Test Is Not Needed To Be Applied To Sample (Not Applicable To Sample)	NU
If the Specimen Fits the Rules (Passed)	Р
If the Specimen Tested Does Not Comply with the Rules (Left)	K
If there is a Rule / Experiment Not Applied for Any Reason (Unable)	Υ

<u>Sample No</u>	1	2	3	4
Flammability (Yes/No)	No	No	No	No
Whether the flame is spread (Yes/No)	No	No	No	No
Flame Spreading Time	-	-	-	-
Combustion on Filter Paper (Yes/No)	No	No	No	No

Related Product Standard and Citations: Fire Response Test (EN 13501-1 A2 Class)					
Conditioning Details: The test samples were conditioned at 23 \pm 2 °C and 50 \pm 5% relative humidity at EN 13823 according to 4.3 C.					
	For the determination of conformity to Class A2, use a product, the time of exposure to flame according to TS EN 13501-1				
<u>Test Sample</u>	Length mm , Width mm , Thickness — mm				
Exposure Requirements	Surface exposed to flame				

RESULT: Tests and tests were carried out according to the European Standard TS EN ISO 13501-1, A2 Class. The product has passed the test successfully.



[&]quot;The result of this experiment is related to the behavior of the test specimen of a product under the special conditions in which the test is applied; Not a single criterion for assessing the potential fire hazard of a product under actual use."



Reaction to fire

The combustion class (Euroclasses) of the product must be determined in accordance with EN 13501-1.

TS EN 13501-1 - Flammibility Test

This test is carried out to determine whether a contribution to a fire is significant, regardless of the end use of a product.

Material	Rule / Test	Resul	Decision	
5	Test sample			
6	Conditioning			
	Test samples shall be conditioned as specified in EN 13823. The test samples should be dried and tested for 20 hours to 24 hours in an air-circulating oven with a temperature of (60 ± 5) ° C. it must be allowed to cool to ambient temperature in a desiccator before being held. The mass of each sample should be determined with a sensitivity of 0.01 g before the experiment.	Conditionin Conditionin 23 ± 2 ° C Humid EN 13823 4 for fix a) Minimu period C	PASS	
	Display of results	2) cemen	t based products;	
8 8.1	The measured mass loss is calculated and recorded in % for each of the five inspection samples. Flare The measured total duration of sustained flaming is calculated and recorded in seconds for each of the five inspection samples -Temperature rise The temperature rise recorded with the thermocouple, Δt = Tm - Tf, is		2.12 MJ/kg TS EN ISO 1716	
8.2	calculated and recorded for each of the five inspection samples.	2. test	2.13 MJ/kg	
8.3	Note 1: TS EN 13501 -1 A1 class Homogeneous and non-homogeneous products must meet the criteria of $\Delta t \leq 30^{\circ}$ C and $\Delta m \leq 50\%$ and tf = 0s.		TS EN ISO 1716	PASS
	Note 2: TS EN 13501-1 Class A2 Homogeneous and non-homogeneous products must meet the criteria of $\Delta t \leq 50^{\circ}$ C and $\Delta m \leq 50\%$ and $tf \leq 20s$.		2.14 MJ/kg	
	Note 3: TS EN 13501-1 Class A1 Homogeneous products must meet the criteria of PCS ≤ 2.0 MJ/kg.	3. test	TS EN ISO 1716	





Classification of **Metal Ceiling Panel** according to TS EN 13501-1 according to the behavior against fire:

A2

Test method	<u>Parameter</u>	Number of tests	<u>Mean of</u> <u>continuous</u> <u>parameter</u>	Results Suitable parameter
	FIGRA _{0,2M} , (W/s)	4	114	≤120
	LFS < side	4	(-)	No
TS EN 13823	THR _{600s} (MJ)	4	6,5	≤7.5
	SMOGRA (m²/s²)	4	22	≤30
	TSP_{600s} (m^2)	4	39	≤50
	Drops and droplets (s)	4	(-)	No

Test method	Parameter	Parameter	Compliance criteria
	FIGRA _{0-4MJ} [W/s]	114	≤120 (A2)
	THR _{600s} (MJ)	6,5	≤7,5 (A2)
	LFS < side	(-)	No
TS EN 13823	SMOGRA [m²/s²]	22	≤30(s1)
	TSP _{600s} [m²]	39	≤50 (s2)
	burning drops / particles burning time (s)	No	No (d0)

Classification of **Metal Ceiling Panel** based on fire behavior:

Α2

Additional classification for smoke formation:

S1

Additional classification for burning drops / beads:

d0

Reaction to fire for Metal Ceiling Panel

	<u>Flammability</u> <u>Behavior</u>		<u>Smoke</u>			<u>Burning Drops</u>	
А	2	-	S	1	-	d	0





Sample Images



*** End of Report***

