INSPECTION REPORT

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22.05.2026	

EUROLAB INC.

EUROLAB® Inspection & Testing Laboratory

Report No/ Rapor No :	2026052217
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Total number of pages/Rapor Sayfa :	5 Pages
Sample ID :	**Truss**

	TEST/ INSPECTION	DIRECTIVE	METHOD	RESULT		
*	**Fire classification of construction products and building elements Part 1: Classification using data from reaction to fire tests**	**Construction Product Inspections EU 305/2011 89/106/EEC**	**EN 13501-1**	**PASS**		
				B	**s1**	**d0**

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

Seal

Customer Representative

Merve Nur KIRVELİ

Laboratory Manager

Merve ÖZLÜ

Test/inspection 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/inspection Request Form (PR03-F01) conveyed to us from the Applicant. Test/inspection 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/inspection methods according to EN ISO/IEC 17020, 17025 from UAF. Possible extra notes may add with starting N[1] to related pages. Tested and remaining samples will be keep in specified terms & conditions at test/inspection 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/inspection results shown in this Report. Evaluation of the test/inspection results using Measurement Uncertainty values is the responsibility of the Applicant. An inspection body shall issue an inspection certificate that does not include the inspection results only when the inspection body can also produce an inspection report containing the inspection results, and when both the inspection certificate and inspection report are traceable to each other.

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EN 13501-1: Fire classification of construction products and building elements Part 1: Classification using test data from reaction to fire tests.

Scope

This document provides the reaction to fire classification procedure for all construction products, including products incorporated within building elements with the exception of power, control and communication cables which are covered by EN 13501-6. Products are considered in relation to their end use application.

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)	P
If the Specimen Tested Does Not Comply with the Rules	K
If there is a Rule / Experiment Not Applied for Any Reason (Unable)	Y

Related Product Standard and Citations: Fire Response Test (EN ISO 11925-2, B Class)	
Conditioning Details: The test samples were conditioned at 23 ± 2 °C and 50 ± 5% relative humidity at EN 13238.	
Class B (EN 13501-1)	For the determination of conformity to **Class *B*** , use a product, the time of exposure to flame according to EN 13501-1.
Test Sample Name	TRUSS
Exposure Requirements	Surface flame application test and edge flame application test were performed in accordance with ISO 11925-2.

Class of reaction to fire performance

Class	Test method	Classification Criteria	Additional Classification
B	EN 13823	$FIGRA_{0,2\ MJ} \leq 120$ W/s LFS < edge of specimen $THR_{600s} \leq 7,5$ MJ	Smoke production [f] and Flaming droplets/particles [g]
	EN ISO 11925-2 [i] Exposure = 30 s	$F_s \leq 150$ mm within 60 s	-

[i] Under conditions of surface flame attack and, if appropriate to the end–use application of the product, edge flame attack.
[f] s1 = SMOGRA ≤ 30m²/s² and $TSP_{600s} \leq 50m^2$; s² = SMOGRA ≤ 180m²/s² and $TSP_{600s} \leq 200m^2$; s³ = not s1 or s2
[g] d0 = No flaming droplets/ particles in EN 13823 within 600 s;
d1 = no flaming droplets/ particles persisting longer than 10 s in EN 13823 within 600 s;
d2 = not d0 or d1.
Ignition of the paper in EN ISO 11925-2 results in a d2 classification.
F_s Flame spread

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Reaction To Fire

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

EN 13823 Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item

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	Result / Evalution		Decision
EN 13823	**Test sample**			
	Truss	---		**---**
6	**Conditioning**			
6.1 **6.2**	The conditioning shall be in accordance with EN 13238 and the requirements of 6.2. The parts that compose a specimen may be conditioned separately or fixed together. However, specimens that are tested glued to a substrate shall be glued before conditioning.	It is conditioned under the conditions mentioned in the standard.		**PASS**
9	**Expression of results**	**EN 13823**	Classification Criteria **FIGRA ≤ 120W/s** **THR_{600s} ≤ 7,5 MJ**	**Class B** **PASS**
9.1	For each test, the burning behaviour of the product shall be represented by graphs of average heat release rate $HRR_{av}(t)$, total heat release THR(t), and 1000 x $HRR_{av}(t)$ / (t - 300), for the time interval 0 ≤ t ≤ 1500 s; the values for the fire growth rate indices $FIGRA_{0,2\ MJ}$ and $FIGRA_{0,4\ MJ}$, and the total heat release within 600 s THR_{600s}, calculated in accordance with A.5, and the occurrence or not of lateral flame spread up to the edge of the specimen in accordance with 8.3.3.	1st test	**$FIGRA_1$: 83 W/s** **THR_{600S1}: 5,6 MJ**	
9.2	For each test, the smoke production behaviour of the product shall be given as the graphs of $SPR_{av}(t)$, total smoke production TSP(t) and 10000 x SPRav(t)/(t - 300), for the time interval 0 ≤ t ≤ 1500 s; and the values for the smoke growth rate index SMOGRA and the total smoke production within 600 s TSP600s, calculated in accordance with A.6.	2nd test	**$FIGRA_2$: 84 W/s** **THR_{600S2}: 5,3 MJ**	
9.3	For each test, the behaviour of the product regarding the production of flaming droplets and particles shall be given as the occurrence, or not, of one or both categories of fallen flaming droplets and particles, in accordance with 8.3.4, a) or b) respectively.	3rd test	**$FIGRA_3$: 86 W/s** **THR_{600S3}: 5,8 MJ**	

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Classification of **Truss** according to EN ISO 11925-2 according to the behavior against fire:

B

Test method	Parameter	Mean of Continuous Parameter	Classification Criteria
EN ISO 11925-2	$Fs_{60s} \leq 150$ mm	38 mm	Class B
	$Fs_{60s} \leq 150$ mm	37 mm	Class B
	$Fs_{60s} \leq 150$ mm	39 mm	Class B

Test method	Parameter for Smoke	Parameter	Classification Criteria
BS EN 13823	$SMOGRA_{S1}$: 20 m^2/s^2	SMOGRA ≤ 30 m^2/s^2	s1
	$SMOGRA_{s2}$: 23 m^2/s^2	SMOGRA ≤ 30 m^2/s^2	s1
	$SMOGRA_{s3}$: 21 m^2/s^2	SMOGRA ≤ 30 m^2/s^2	s1

Test Method	Parameter For Droplets	Classification Criteria
BS EN 13823	d0 = No flaming droplets/ particles in within 600 s;	d0
	d0 = No flaming droplets/ particles in within 600 s;	d0
	d0 = No flaming droplets/ particles in within 600 s;	d0

Classification of **Truss** based on fire behavior:

B

Additional classification for smoke formation:

s1

Additional classification for burning drops / beads:

d0

Reaction to fire for **Truss**

Test Results

Fire Behavior		Smoke Production			Flaming Droplets	
B	-	s	1	,	d	0

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Sample Image



End Of Report

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