INSPECTION REPORT

TR12323498	
23.09.2024	

EUROLAB LABORATUVAR A.Ş.

EUROLAB Inspection & Testing Laboratory

Report No/ Rapor No :	2024092398
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Total number of pages/Rapor Sayfa :	5
Sample ID :	**Truss X-module**

	TEST	DIRECTIVE	METHOD	RESULT
*	**Fire Behaviour of Building Materials and Elements Part 1: Classification of Building Materials Requirements and Testing**	**The General Product Safety Directive (GPSD) (2001/95/EC)**	**DIN 4102-1**	**B1**

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

EUROLAB LABORATORY SERVICES APPROVED

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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DIN 4102-1: Fire Behaviour of Building Materials and Elements Part 1- Classification of Building Materials Requirements and Testing

Scope

This standard defines fire behaviour classes for building materials and specifies requirements and test methods for each class.The classification specified in this standard serves to assess the fire behaviour of materials alone or in combination

Building Material Classes

Building materials shall be classed according to their fire behavior as shown in Table 1.

Building Material Class	Building Designation
A **A1** **A2**	Non-combustible materials
B **B1** **B2** **B3**	Combustible materials Not easily flammable building materials Flammable building materials Easily flammable building materials

Class B1 Materials

Criteria for classification

All materials except flooring, may be calssed as B1 materials if they

- withstand the test specified in DIN 4102-16 using the apparatus specified in DIN 4102-15,and
- meet the requirements for class B2 materials.

The test using apparatus described in DIN 4102-15 shall be deemed passed if

- the mean value for the residual length of each specimen is at least 15 cm and no individual values are lower than 0 cm,
- the mean effluent gas temperature does not exceed 200 °C in any test,
- the requirement for the residual length of each specimen is met even where is afterflame, afterglow, or smouldering.

The tests for B2 materials described in DIN 4102-1 shall be deemed passed if

- pass DIN 4102-1 subclause 6.2.5 Ignitability test for each specimen, flaming doesn't reach the gage mark within 20s after flame application.

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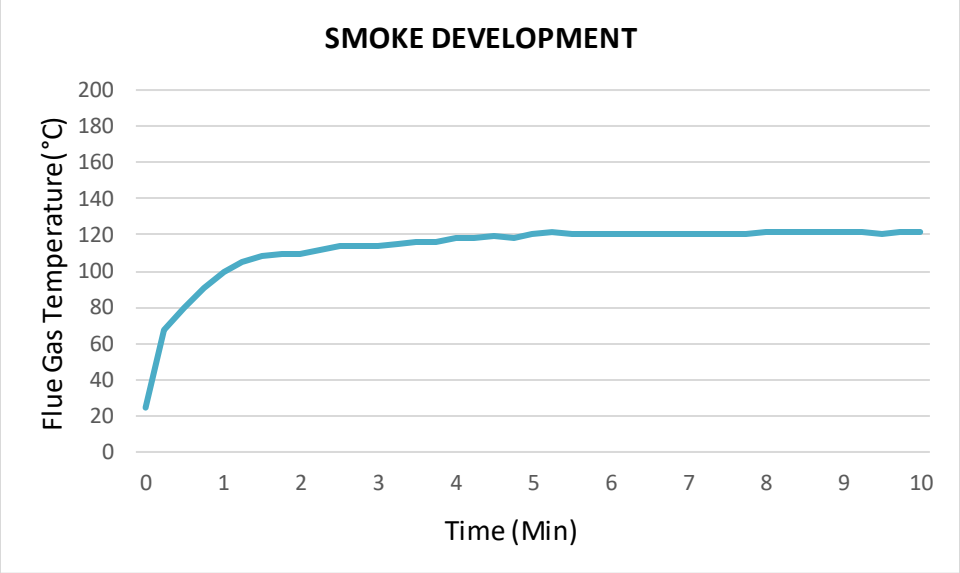
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Test Results

Results of DIN 4102-16						
		Unit	Result			
1	Number of test specimen arrangement according to DIN 4102-15		4			
2	Maximum flame height above bottom edge	cm	43			
3	Time	min:s	0:39			
	Melting/burning through					
4	Time	min:s	0:09			
	Back of specimen		-			
5	Flames/smouldering, time	min:s	-			
6	Discolouration, time	min:s	-			
	Falling of burning droplets		NO			
7	Begin time	min:s	-			
8	Sporadic burning droplets		-			
9	Continually falling droplets		-			
	Falling of burning parts		NO			
10	Begin time	min:s	-			
11	Sporadic falling parts		-			
12	Continually falling parts		-			
13	Duration of continued burning on the bottom	min:s	NO			
	Interference of the burner flame by dripping/falling particles		NO			
14	Time	min:s	-			
	Early termination of the test		NO			
15	End of burning at the specimen	min:s	-			
16	Time of early cancellation of the test	min:s	-			
	Burning after end of test		NO			
17	Duration	min:s	-			
18	Number of specimens		-			
19	Front side of the specimen		-			
20	Back side of the specimen		-			
21	Flame length	cm	-			
22	Residual Length	cm	60	62	60	63
	Smouldering after termination of the test		NO			
23	Duration	min:s	-			
24	Number of specimens		-			
	Location;					
25	Bottom half of specimen		-			
26	Top half of specimen		-			
27	Front side of specimen		-			
28	Back side of specimen		-			
	Smoke development					
	≤400 % min	% min	≤ 400 %			
	>400 % min					
	Flue gas temperature					
29	Maximum value of the averaged values	°C	122	121.9	120.7	123.5
30	Time	min:s	9:15	8:50	9:05	9:40

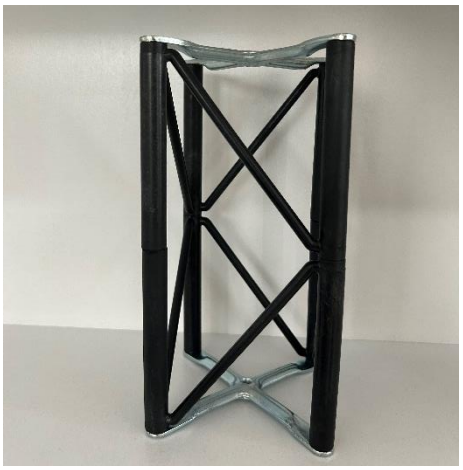
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Results Of Ignitability Test According to DIN 4102-1 Clause 6.2					
Parameter	**1**	**2**	**3**	**4**	**5**
Whether or not flaming extinguished before reach the gauge park	**YES**	**YES**	**YES**	**YES**	**YES**
Whether or not flaming reach the measuring mark within 20 seconds	**NO**	**NO**	**NO**	**NO**	**NO**
Afterflame time (s)	**0**	**0**	**0**	**0**	**0**
Maximum flame height (mm)	**50**	**50**	**55**	**50**	**50**
Molten dripping	**NO**	**NO**	**NO**	**NO**	**NO**
Smoke developments	**LOW**				



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Sample Images





END OF REPORT

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