

# TECHNICAL REPORT



## Customer information:

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## SAMPLE(S) FOR TEST:



Our Ref: HPK109801  
Test Date : 01/02/2023  
Test End Date : 06/02/2023  
Date: 08/02/2023

One, Composite – Ref: MARINA FR

Note: The above descriptions are as supplied by the client and have not been verified by K-TEX LAB International who can take no responsibility for the accuracy of the description.

### Conditioning

Prior to testing: At least 72 hours in ambient indoor conditions, then at least 16 hours in an atmosphere having a temperature of  $20\pm 5^{\circ}\text{C}$  and a relative humidity of  $50\pm 20\%$

At time of testing: Temperature of 15 to  $30^{\circ}\text{C}$  and a relative humidity of 20% to 70%

TEST	SAMPLE 1
FLAMMABILITY TEST - DIN 4102, part 1 (B1)	P

P = MEETS BUYER'S REQUIREMENT / F = DOES NOT MEET BUYER'S REQUIREMENT / NR = NO REQUIREMENT / SC=STILL CONTINUES / X=NOT PERFORMED / NA = NOT APPLICABLE/ LS : LACK OF SAMPLE



Test Method	Results	Requirements
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**Order description :** Proof of flammability to classify building materials to class **B1** „schwerentflammbar“ according to DIN 4102, part 1 orientation test

**Preparation of samples:**

Out of the material there have been cut samples with the dimensions of 1000mm x 190mm to flame impingement for the ignitability apparatus.

The samples were kept in climate chamber 20 +/- 2 °C and 65 +/- 4 humidity until they reached constant weight.

**Arrangement of samples: freely suspended**

Sample A	flaming side A and B in length and cross direction	1 samples width side A
		1 samples cross side A
		1 samples width side B
		1 samples cross side B

		Result with the tested specimen				
	Dim.	A	B	C	D	E
<del>1- Number of specimen arrangement acc. to. DIN 4102/T15, schedule 1</del>		1				
<del>2- Maximum flame height above bottom edge of the specimen</del>	Cm	50				
3- Time <sub>1)</sub>	min:s	0:15				
4- Burn through / melting Time <sub>1)</sub>	min:s	0:07				
5- Observations on the back side of the pecimen Flames/Glowing Time <sub>1)</sub>	min:s	-				
6- Change of color Time <sub>1)</sub>	min:s	-				
7- Falling of burning droplets Start <sub>1)</sub>	min:s	no				
Extent		-				
8-Sporatic falling of burning droplets <sub>2)</sub>		-				
9- Continuous falling of burning droplets <sub>2)</sub>		-				
Falling of burning droplets 10- Start <sub>1)</sub>		no				
11-Sporatic falling of burning droplets <sub>2)</sub> 12- Continuous falling of burning droplets <sub>2)</sub>		-				
13-Afterfiame time at the bottom of the sieve (max.)	min:s	-				
Impairment of the burner by dropping or falling material: 14- Time <sub>1)</sub>	min:s	No				
15- Premature end of test: Final occurance of burnig at the specimen <sub>1)</sub>	min:s	1:40				
16-Time of eventually end of test <sub>1)</sub>	min:s	-				

- 1) indication of times: from the begin of testing procedure
- 2) Checked off if applicable
- 3) Indication of carrier/foam layer seperated in case of fire-proofing agents
- 4) Very strong development of smoke



Test Method	Results	Requirements
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	Dim.	Result with the tested specimen				
		A	B	C	D	E
Afterflame after end of test		no				
17- Time	min:s	-				
18- Number of specimen		-				
19- Front side of specimen 2)		-				
20- Back side of specimen 2)		-				
21- Flame length	cm	-				
Afterglow after end of test		no				
22- Time	min:s	-				
23- Number of specimen		-				
Place of appearance		-				
24- Lower half of the specimen 2)		-				
25- Upper half of the specimen 2)		-				
26- Front side of specimen 2)		-				
27- Back side of specimen 2)		-				
Density of smoke 28- - _ _ 400 <sub>0</sub> /0 * min		122,90				
29- > 400% * min <sup>4)</sup>		-				
30- Diagram: incl. No.		1				
Residual lengths:						
Individual value 3) 31-	cm	50 68 48 59				
32- Average value, individual test 3)	cm	56				
33- Photo of specimen in enclosure no.		1				
34-Flue gas temperature						
35-Maximum of average value	°C	123,4				
Time 1)	min:s	9:57				
36-Diagram: incl. No.		1				
37-Remarks: -						

- 1) Indication of Limes: from the begin of testing procedure
- 2) Checked of if applicable
- 3) Indication of carrier/foam layer separated in case of fire-proofing agents
- 4) Very strong development of smoke

TEST	METHOD	RESULT
Fire behaviour of building materials and elements Part 1: Classification of building materials Requirements and testing	DIN 4102	PASS
		B1

