



Laboratory for Fire Safety

*Classification of reaction to fire in accordance with
EN_13501-1:2018 of Compostboard hemp and flax*

Classification report

Report number Y 3079-4E-RA-001 dated 10 October 2024

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*Classification of reaction to fire in accordance with
EN_13501-1:2018 of Compostboard hemp and flax*

Classification report

Client Compostboard
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5644 TS Liessel
The Netherlands

Issued by Peutz bv
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The Netherlands



Notified body no. NB 2264

Product name **Compostboard of hemp and flax**

Report number Y 3079-4E-RA-001
Date 10 October 2024
Reference HL/DDe//Y 3079-4E-RA-001
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1 Introduction

On behalf of Compostboard an investigation was performed with respect to the reaction to fire properties of Compostboard hemp and flax.

This classification report defines the reaction to fire classification of the product in accordance with the procedures described in EN 13501-1: 2018.



For performing measurements, the Laboratory for Fire Safety of Peutz bv is recognized by the Dutch Accreditation Body RvA..

The RvA is member of the **EA MLA** (European Accreditation Organisation **M**ulti**L**ateral **A**greement). www.european-accreditation.org

EA: "Certificates and reports issued by bodies accredited by MLA and MRA members are considered to have the same degree of credibility, and are accepted in MLA and MRA countries".

2 Product description

2.1 General

The information in this report is based on information provided by the client.

The product investigated is Compostboard hemp and flax, hereinafter also called 'the product'. The intended application is interior wall decoration.

2.2 Harmonised product standard

According to the client there was no harmonised European product standard published at the time the tests were conducted and this report was drawn up.

2.3 Product identification

The most important parameters for identifying the product are summarized in Tables 2.1 and 2.2 below.

t2.1 General information of product to be tested

Product		
Date of delivery		04/06/2024
Commercial name		Compostboard Hemp flax
Produced by	name	Rik Makes BV
	address	Boutenslaan 83 5644 TS Liessel
Identification	batchnr.	N/A
	date of manufacture	15/04/2023
	photo	
Sampling	date	15/04/2023
	by	Mr R. Maarsen Compostboard

Peutz was not involved in the selection of the test specimen (or of its materials). The laboratory cannot make any declaration about the representativeness of the provided specimen and the samples made available. The results apply to the sample as received.

t2.2 Additional information of product to be tested

Compostboard Hemp flax

Description	Hemp fiber and flax fiber with sugar glue
Composition	Hemp fiber, flax fiber and sugar glue
Thickness	18 mm
Volumic mass	365 kg/m ³ MV
Surface weight	7 kg/m ² MV

Fire retardant additive None

Colour Natural, brown

Photo



The values mentioned are the nominal values as given by the client, unless otherwise stated

3 Reports and results in support of this classification

3.1 Reports

The client has confirmed that the reports provided (see Table 3.1) may be used for this classification.

t3.1 Reports in support of classification

Name of laboratory	Name of client	Number and date of report	Test method Field of application rules
Peutz bv, NB 2264	Compostboard	Y 3079-2E-RA-001; 10/10/2024	EN 13823:2020+A1:2022
Peutz bv, NB 2264	Compostboard	Y 3079-3E-RA-001; 10/10/2024	EN-ISO 11925-2:2020

3.2 Results

The results obtained are summarised in Tables 3.2, 3.3.

t3.2 Summary of test results EN-ISO 11925-2

Flame application time 30 s		Number of tests	Results	
Parameter			Continuous parameters (average)	Compliance parameters
Surface exposure	F _s ≤ 150 mm	6	-	Y
	Ignition of filter paper		-	N
Edge exposure	F _s ≤ 150 mm	6	-	Y
	Ignition of filter paper		-	N

t3.3 Summary of test results EN 13823

Parameter		Number of tests	Results	
			Continuous parameters (average)	Compliance parameters
FIGRA _{0,2MJ}	[W/s]	3	599	-
FIGRA _{0,4MJ}	[W/s]		599	-
THR _{600s}	[MJ]		15.9	-
SMOGRA	[m ² /s ²]		3	-
TSP _{600s}	[m ²]		19	-
LFS reaching edge			-	N
Flaming droplets/particles				
- FDP ≤ 10 s			-	N
- FDP > 10 s			-	N

3.3 Classification criteria

The classification to be obtained is based on the classification criteria given in EN 13501-1. In Tables 3.4 and 3.5 these criteria are summarised.

t3.4 Classification criteria

Test	Parameter Continuous (average) or compliance	Class		
		B	C	D
EN-ISO 11925-2	Flame spread ≤ 150 mm	Y	Y	Y
EN 13823	FIGRA _{0,2MJ}	[W/s] ≤ 120	-	-
	FIGRA _{0,4MJ}	[W/s] -	≤ 250	≤ 750
	THR _{600s}	[MJ] $\leq 7,5$	≤ 15	-
	LFS reaching edge	N	N	-

t3.5 Criteria additional classifications

Test	Parameter Continuous (average) or compliance	Class			Class		
		s1	s2	s3	d0	d1	d2
EN-ISO 11925-2	Ignition of filter paper	-	-	-	N	N	Y
<i>Note: ignition of filter paper leads to classification d2, irrespective of the results for FDP in EN 13823</i>							
EN 13823	SMOGRA	[m ² /s ²] ≤ 30	≤ 180	not s1	-	-	-
	TSP _{600s}	[m ²] ≤ 50	≤ 200	or s2	-	-	-
EN 13823	Flaming droplets/particles (FDP) within 600 s						
	- FDP ≤ 10 s	-	-	-	N	Y	-
	- FDP > 10 s	-	-	-	N	N	not d0 or d1

4 Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with EN 13501-1:2018.

4.2 Classification

The product, Compostboard hemp and flax, has been classified to its reaction to fire behaviour as: D. The additional classification for the smoke production is: s1, the additional classification for flaming droplets is: d0.

Reaction to fire classification: D-s1, d0

4.3 Field of application

The classification is valid for the product parameters and end use applications as stated in Tables 4.1 and 4.2.

t4.1 Product parameters

Parameter	
Thickness	20 mm
Surface weight	7 kg/m ²
Density	365 kg/m ³

t4.2 End use parameters

Parameter	
Substrate	Fire class A2-s1,d0 or better, except gypsum board, with a thickness of at least 9 mm and a density of at least 653 kg/m ³
Cavity	No cavity can be present, the product needs to be directly mounted against the substrate
Method of attachment	The product is fixed using screws
Joints	Joints in horizontal and vertical direction of 0 mm can be used
Product orientation	The product can be used horizontal and vertical.

5 Limitations

There are no limits in time on the validity of this classification document.

This classification document does not represent type approval or certification of the product.



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