

**CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE
WITH EN 13501-1: 2018
FIRES-CR-197-20-AUPE**

WATISOL Cellulose Insulation

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CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE WITH EN 13501-1: 2018

with direct field of application

FIRES-CR-197-20-AUPE

Name of the product:

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Task No.: PR-20-0340

Date of issue: 24. 05. 2021

Reports: 2
Copy No.: 2

Distribution list:

Copy No. 1 FIRES, s. r. o., Osloboditeľov 282, 059 35 Batizovce, Slovak Republic
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1. INTRODUCTION

This classification report defines the reaction to fire classification assigned to element WATISOL Cellulose Insulation in accordance with the procedures given in EN 13501-1: 2018.

2. DETAILS OF CLASSIFIED PRODUCT

2.1 GENERAL

The element, WATISOL Cellulose Insulation, is defined as free thermal and sound insulation for indoor and outdoor structures according to EAD 040138-00-1201: 2015.

2.2 PRODUCT DESCRIPTION

WATISOL thermal and sound insulation

- bulk density (40–65) kg.m⁻³;
- composition, recycled newsprint paper mixed with additives against rot, mould, insects, rodents and fire.

3. TEST REPORTS IN SUPPORT OF CLASSIFICATION

3.1 TEST REPORTS

No.	Name of laboratory	Name of sponsor	Test report No.	Date of the test	Test method
[1]	FIRES, s.r.o., Batizovce, SK	EKOCELL CZ, s.r.o., Nový Jičín, CZ	FIRES-RF-086-20-AUNS	04. 12. 2020	STN EN 13823: 2020
[2]	FIRES, s.r.o., Batizovce, SK	EKOCELL CZ, s.r.o., Nový Jičín, CZ	FIRES-RF-087-20-AUNS	30. 11. 2020 01. 12. 2020 02. 12. 2020	STN EN 13823: 2020
[3]	FIRES, s.r.o., Batizovce, SK	EKOCELL CZ, s.r.o., Nový Jičín, CZ	FIRES-RF-088-20-AUNS	02. 12. 2020	STN EN ISO 11925-2: 2020
[4]	FIRES, s.r.o., Batizovce, SK	EKOCELL CZ, s.r.o., Nový Jičín, CZ	FIRES-RF-089-20-AUNS	02. 12. 2020	STN EN ISO 11925-2: 2020

[1] – [4] Test specimens were conditioned according to EN 13238 before the reaction to fire.

- [1] WATISOL insulation test with a bulk density of 45 kg.m⁻³
- [2] WATISOL insulation test with a bulk density of 65.5 kg.m⁻³
- [3] WATISOL insulation test with a bulk density of 40.1 kg.m⁻³
- [4] WATISOL insulation test with a bulk density of 65.0 kg.m⁻³

3.2 TEST RESULTS

Test report number and test method	Characteristic value	Number of tests	Results	
			Continuous parameter - mean (m)	Compliance with parameters
[1] STN EN 13823	FIGRA _{0,2MJ}	3	54,9	(-)
	FIGRA _{0,4MJ}		49,9	(-)
	LFS<edge of specimen		(-)	compliant
	THR _{600s}		3,6	(-)
	SMOGRA (m ² /s ²)		12,3	(-)
	TSP _{600s} (m ²)		117,6	(-)
	flaming droplets/particles		occurrence flaming ≤ 10 s flaming >10 s	non-compliant (-)/ (-)



Test report number and test method	Characteristic value	Number of tests	Results	
			Continuous parameter - mean (m)	Compliance with parameters
[2] STN EN 13823	FIGRA _{0,2MJ}	3	94,1	(-)
	FIGRA _{0,4MJ}		89,7	(-)
	LFS<edge of specimen THR _{600s}		(-)	compliant
	SMOGR _A (m ² /s ²) TSP _{600s} (m ²)		4,7	(-)
			10,0	(-)
			105,9	(-)
	flaming droplets/particles		occurrence flaming ≤ 10 s flaming >10 s	non-compliant (-) (-)
[3] EN ISO 11925-2 surface/edge of specimen* exposed to flame (exposure time 30 s)	F _s ≤ 150 mm	6	(-)	compliant
flaming droplets/particles	ignition of the paper		(-)	non-compliant
[3] EN ISO 11925-2 surface/edge of specimen* exposed to flame (exposure time 30 s)	F _s ≤ 150 mm	6	(-)	compliant
flaming droplets/particles	ignition of the paper		(-)	non-compliant

* Specimens main surface and edge were exposed to flame.

4. CLASSIFICATION AND FIELD OF APPLICATION

4.1 REFERENCE OF CLASSIFICATION

This classification has been carried out in accordance with clause 11. of EN 13501-1: 2018.

4.2 CLASSIFICATION

The product, WATISOL Cellulose Insulation, in relation to its reaction to fire behaviour is classified:

B

The additional classification in relation to smoke production is:

s2

The additional classification in relation to flaming droplets/particles is:

d0

The format of the reaction to fire classification for construction products excluding floorings is:

Fire behaviour		Smoke production			Flaming droplets	
B	-	s	2	,	d	0

Reaction to fire classification: B – s2, d0



4.3 FIELD OF APPLICATION

This classification is valid for the following final use applications:

- i) in horizontal and vertical position;
- ii) without substrate or with substrate with a minimum reaction to fire class A2, s1, d0
- iii) with or without cavity between the product and the substrate

This classification is also valid for the following product parameters:

Thickness	Increasing in thickness is allowed only, maximum thickness is 40 mm
Bulk density of the product [kg.m ⁻³]	A change in the bulk density of the product is permitted in the range (40–65) kg.m ⁻³ ;
Composition of product	Changing of product composition is not allowed;

5. LIMITATIONS

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

The classification is valid provided that the product, field of application and standards and regulations are not changed.

Approved by:

Ing. Štefan Rástocký
Head of the testing laboratory

Prepared by:

Ing. Samuel Skokan
Technician of the testing laboratory