



## Building Research Institute

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### **CLASSIFICATION RANGE REACTION TO FIRE according to PN-EN 13501-1+A1:2010**

Contract number: 01824/20/Z00NZP

<b>Ordering Party:</b>	<b>NORDISKA EKOFIBER POLSKA Sp. z o. o. Bilicza, Kielecka 21 26-026 Morawica</b>
<b>Developed by:</b>	<b>Department of Fire Research Building Research Institute 1 Filtrowa 00-611 Warsaw</b>
<b>Product name:</b>	<b>VIND cellulose granulate in end use</b>
<b>Classification report no.:</b>	<b>01824.2/20/Z00NZP</b>
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This classification report consists of three pages and may only be used or reproduced in its entirety.

#### **1. Introduction**

The classification report specifies classification given to VIND cellulose granulate in the final application in accordance with the procedures specified in PN-EN 13501-1+A1:2010.

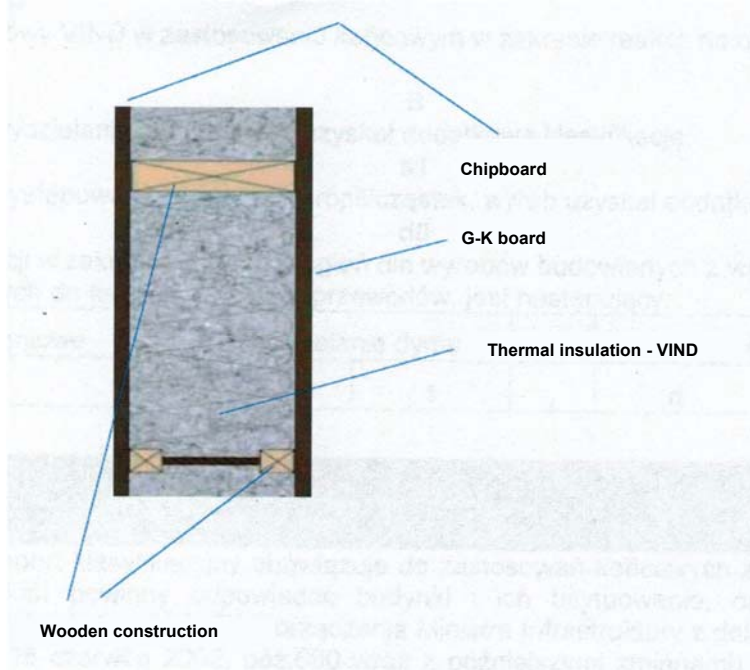
#### **2. Detailed information on the classified product**

##### **2.1 General provisions**

VIND cellulose granulate in the final application used for thermal insulation of walls.

The product is described below.

Product description:  
Drywall thickness ≤ 12.5 mm.



**3. Test reports and test results as the basis for the classification**

**3.1 Test reports**

Name of the laboratory	Ordering party's name	Test report no.	Test method
Fire Research Laboratory ITB	NORDISKA EKOFIBER POLSKA Sp. z o. o.	LZP02-01824/20/Z00NZP	PN-EN ISO 11925-2:2010
		LZP04-01824/20/Z00NZP	PN-EN 13823+A1:2014

**3.2 Test results**

Test method	Parameter	Number of tests	Results	
			Continuous parameter - average value (m)	Compliance with the parameter
PN-EN ISO 11925-2:2010 Surface and edge flame effects Exposure 30 s	Flame spread $F_s \leq 150$ mm	9	(-)	Y
	Flaming droplets / particles		(-)	N
PN-EN 13823+A1:2014	FIGRA <sub>0,2MJ</sub>	3	0.0	(-)
	FIGRA <sub>0,4MJ</sub>		0.0	(-)
	LFS < edge		(-)	Y
	THR <sub>600s</sub> [MJ]		0.1	(-)
	SMOGRA [m <sup>2</sup> /s <sup>2</sup> ]		0.0	(-)
	TSP <sub>600s</sub> [m <sup>2</sup> ]		28.5	(-)
	Flaming droplets / particles		(-)	N

(-): not applicable  
Y: YES  
N: NO

#### 4. Classification and its scope of application

##### 4.1 Determination of classification

The classification was determined in accordance with PN-EN 13501-1+A1:2010.

##### 4.2 Classification

VIND cellulose granulate in the final application in reaction to fire obtained the following classification:

**B**

Due to the emission of smoke, the product received an additional classification:

**s1**

Due to the presence of flaming droplets / particles, the product received an additional classification:

**d0**

The format for the classification of the reaction to fire for construction products with the exception of flooring and linear thermal insulation products is as follows:

Fire properties		Smoke production			Flaming drops	
<b>B</b>	-	<b>s</b>	<b>1</b>	,	<b>d</b>	<b>0</b>

that is: **B-s1,d0**

### Reaction to fire classification: B-s1,d0

The classification report is valid for final applications in accordance with the technical conditions to be met by buildings and their location, and as for a "non-flammable, non-drip" product according to the Regulation of the Minister of Infrastructure of April 12, 2002 (Journal of laws No. 75 of June 15, 2002, item 690, as amended) and as for a product that does not spread fire inside buildings. At the same time, the product is assessed as not falling off under the influence of fire and as not spreading fire inside buildings.

##### 4.3 Scope of application

The classification is valid for the following parameters defining the product:

VIND cellulose granulate in end use described in point 2 of this classification report.

VIND cellulose granulate in end use, used on substrates with a reaction to fire class of at least D-s2, d0 according to PN-EN 13501-1 or for wooden or wood-based elements.

#### 5. Limitations

The assigned classification remains valid as long as:

- the test method is not changed,
- the product standard or technical approval of the product is not changed,
- Design and material changes do not exceed the limits of the application area specified in 4.3.

The classification report has been issued in 3 copies (2 for the Ordering Party, 1 in the archives of the ITB Fire Research Department) Certified copies may be issued by the Fire Research Institute ITB only at the request of the owner of the report.

This classification document does not constitute an approval or a product certificate.

**Signed by**

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Łukasz Jarochowicz

**Approved by**

**Head of the Department of Fire Research**

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