



„MEŽA UN KOKSNES PRODUKTU PĒTNIECĪBAS UN ATTĪSTĪBAS INSTITŪTS” SIA
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Classification of reaction to fire performance in accordance with EN 13501-1:2007+A1:2009

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Sponsor: Van de Sande BV.

Address: Den Uitvanck 12A, 5688XG, Oirschot, Holland.
Reg. No. 819151889B01.

Owner of classification report: Van de Sande BV.

Address: Den Uitvanck 12A, 5688XG, Oirschot, Holland.
Reg. No. 819151889B01.

Manufacturer: Building Innovations Ltd.

Prepared by: SIA “Meža un koksnes produktu pētniecības un attīstības institūts” (*Forest and Wood Products Research and Development Institute Ltd*).

Product name: SANCOUSTIC_PIR.

Laboratory involved in testing is accredited by the Latvian National Accreditation Bureau (LATAK) according to the standard LVS EN ISO/IEC 17025 under the terms of Latvian legislation with reg. No. T-316. Laboratory is a notified body with reg. No. NB 2040 under construction product regulation No. 305/2011.

Classification report refers only to these test objects. This classification report may not be reproduced otherwise than in full text, excepted with the prior written approval of the Forest and Wood Products Research and Development Institute

1. Introduction

This classification report defines the reaction to fire classification assigned to building insulation system SANCOUSTIC_PIR in accordance with the procedures given in EN 13501-1:2007+A1:2009.

2. Details of classified product

2.1. General

SANCOUSTIC_PIR is defined as a thermal insulation system for buildings. System is not described by harmonized European technical specification. Insulation material polyisocyanurate (PIR) is defined as Thermal insulation product for buildings - Factory made rigid polyurethane foam (PU) products according standard EN 13165:2012+A2:2016. SANCOUSTIC WoodWool is defined as Thermal insulation products for buildings - Factory made wood wool (WW) products according standard EN 13168:2012+A1:2015.

2.2. Product description

- Product name: SANCOUSTIC_PIR.
- Manufacturer: Building Innovations Ltd.
- Materials used for manufacturing:
 - SANCOUSTIC WoodWool (Wood wool, white cement, liquid glass with product thickness 25 mm, weight 375 kg/m³);
 - Aluminium faced polyisocyanurate (PIR) insulation with 30 and 150 mm thickness density 30 kg/m³.
- Insulation system total thickness tested: 55 and 175 mm.

3. Test reports and test results in support of classification

3.1. Test reports

Name of laboratory	Name of sponsor	Test reports	Test method
SIA „ Meža un koksnes produktu pētniecības un attīstības institūts” Testing Laboratory	Van de Sande BV.	2500-1/2017	EN 13823:2010+A1:2014
SIA „ Meža un koksnes produktu pētniecības un attīstības institūts” Testing Laboratory	Van de Sande BV.	2500-2/2017	EN ISO 11925-2:2010

3.2. Test results

Test method	Parameter	Number of tests	Results	
			Continuous parameter mean	Compliance parameters
EN 13823:2010+A1:2014	$FIGRA_{0,2MJ}(W/s)$	4	58.6	Compliant
	$FIGRA_{0,4MJ}(W/s)$		46.0	(-)
	$THR_{600s}(MJ)$ LFS		3.7 <1000 mm	Compliant Compliant
	$SMOGRA(m^2/s^2)$		1.2	Compliant
	$TSP_{600s}(m^2)$		23.8	Compliant
	Flaming droplets <10s Flaming droplets >10s		no no	Compliant Compliant
EN ISO 11925-2:2010 Exposure time 30 s. Test duration 60 s.	Flame spread (Fs)	12 ¹ 30 ²	Less than 150 mm (Flame reach 150 mm at 14-28 s time) ¹	Compliant (-)
	Ignition of filter paper		no	(-)
	Flaming droplets/particles		no	(-)
(-) not applicable ¹ – test results of SANCOUSTIC WoodWool ² – test results of PIR insulation				

4. Classification and field of application

4.1. Reference of classification

This classification has been carried out in accordance with clause 11 of EN 13501-1:2007+A1:2009.

4.2. Classification

SANCOUSTIC_PIR in relation to its reaction to fire behaviour is classified:

B

The additional classification in relation to smoke production is:

s1

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

d0

The format of the reaction to fire classification for construction product excluding floorings and linings is:

Fire behaviour		Smoke production			Flaming droplets	
B	-	s	1	,	d	0

Reaction to fire classification: B-s1-d0

4.3. Field of application

4.3.1 This classification is valid for the following product end use applications:

Product primary is intended to use as insulation system for buildings.

4.3.2. This classification is also valid for following product parameters:

Thickness of product: Valid only for SANCOUSTIC WoodWool panel thickness 25 mm.
valid for PIR insulation thickness 30 mm and higher thicknesses.

Composition of product: valid only for product composition as tested.

Structure of product: valid only for product structure as tested.

Product density: valid for product density within limits $\pm 15\%$ as tested.

4.3.3. Classification valid for installation parameters:

Mounting: product tested without air gap between wood wool boards and insulation panel.

Protection of insulation material: valid only for product structure as tested when insulating material is fully protected from direct flame source. Protecting construction should be used in the way that PIR insulation panel cannot be exposed to flame in end use application.

Substrates: product performance determined with gypsum plasterboard substrate and classification is valid for product mounting on substrates of reaction to fire class A1 and A2-s1-d0.

Joints: product tested with horizontal and vertical joints, and classification is valid for any joint arrangements.

Orientation: not applicable.

Fixings: valid for elements fixed with metal fixings.

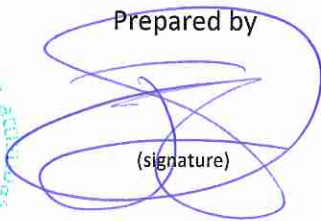
5. Limitations.

5.1. No restrictions on the duration of validity of this classification report as long as the product specifications remain unchanged.

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



Prepared by



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