



FIRE AND RESCUE DEPARTMENT UNDER THE MINISTRY OF THE INTERIOR OF
THE REPUBLIC OF LITHUANIA
FIRE RESEARCH CENTRE
REACTION TO FIRE TESTING DIVISION

1. Introduction

This classification report defines the classification assigned to the thermal insulation assembly in accordance with procedures given in LST EN 13501-1:2007+A1:2010

CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE WITH LST EN 13501-1:2007+A1:2010

Customer:	OOO "TechnoNikol – Stroitelnije sistemi" 47/5 Gilyarovskogo str., Moscow, Russia Ph. +7 (495) 681-27-93
Prepared by:	Fire Research Centre, Lithuania.
Product name:	Thermal insulation assembly fully described in ch. 2.2.
Classification report No.:	20-23.2015.24
Issue number:	Exemplar No. 1 (<i>Classification report was prepared only in English</i>)
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2. Details of classified product

2.1 General

The product, thermal insulation assembly, is defined as combination of thermal insulation products with straight on them applied standard corrugated steel sheet, when the thermal insulation products are not directly exposed to the heat of fire source.

2.2 Product description

In accordance with customer declaration thermal insulation assembly consists of:

1. 0,7 mm thickness standard (according to LST EN 15715 clause 6.3.2.2) corrugated steel sheet;
2. 30 mm thickness, 66,0 kg/m³ nominal density, synthetic resin < 10%, according to LST EN 13501-1 reaction to fire A1, mineral wool „U Protect Slab 4.0“, (producer: “ISOVER Saint-Gobain”);
3. 100 mm thickness, 30-40 kg/m³ density PIR-board produced according to proprietary standard 72746455-3.8.1-2014 (producer: OOO “Zavod Logicruf“ PIR, Russia).

3. Reports and results in support of classification

3.1 Reports

Name of Laboratory	Name of sponsor	Report ref. no.	Test method and date Field of application rules and date
Fire Research Centre Reaction to Fire Testing Division	OOO “TechnoNikol – Stroitelniye sistemi”	20-11.2015.3	LST EN 13823:2010 + A1:2015
Fire Research Centre Reaction to Fire Testing Division	OOO “TechnoNikol – Stroitelniye sistemi”	20-28.2015.5	LST EN ISO 11925-2:2010

3.2 Results

Test method and test number	Parameter	No. tests	Results	
			Continuous parameter – mean (m)	Compliance with parameters
LST EN ISO 11925-2 Surface flame attack Flame exposition period 30 s	$F_s \leq 150$ mm within 30 s	6	Yes	Compliant
	Ignition of filter paper		No	Compliant
LST EN 13823	$FIGRA_{0,2MJ} \leq 120$ W/s	3	0,0	Compliant
	LFS<edge of specimen		Yes	
	$THR_{600s} \leq 7,5$ MJ		0,4	
	$SMOGRA \leq 30$ m ² /s ²		0,0	Compliant
	$TSP_{600s} \leq 50$ m ²		38,0	
	Within 600 s there are any flaming droplets/particules		Yes	Compliant

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with LST EN 13501-1:2007+A1:2010 chapter 11.

4.2 Classification

The product, thermal insulation assembly in relation to its reaction to fire behavior 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 reaction to fire classification construction products excluding floorings and linear pipe thermal insulation products is:

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

i.e. **B-s1, d0**.

Reaction to fire classification: B-s1, d0

4.3 Field of application

This classification is valid for thermal insulation assembly when the thermal insulation products are not directly exposed to the heat of fire source;

This classification is valid for all types of end use substrates or without substrate;

The thermo insulation system can be fixed to the substrate with or without air gap.

This classification is valid for in ch.2.2 listed product parameters, except PIR board thickness are unlimited and rock fibre mineral wool has to be this specifications: 30 mm thickness, 50 ± 20 kg/m³ density, mass loss less than 3,0 % at 550 °C (ISO 1887), according to LST EN 13501-1 reaction to fire A1.

5. Limitations

5.1 Restriction

The product classification is valid till 29th of December 2018.

5.2 Warning

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

Classification Report approved by:

Chief

Vytautas Jocius

