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FIRE AND RESCUE DEPARTMENT UNDER THE MINISTRY OF THE INTERIOR OF THE REPUBLIC OF LITHUANIA

FIRE RESEARCH CENTRE
PRODUCTS RESEARCH 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.:	20-3.2016.24
Issue number:	Exemplar No. 1 (*Classification report was prepared only in English*)
Date of issue:	28 of January 2016
Base:	Contract No. 57-120(3GB/1KL) Request, reg. No. 55-192/15

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Fire Research Centre
Švitrigailos str. 18,
LT-03223 Vilnius
Ph. +370 5 249 1310
Fax. +370 5 233 9878
E-mail: gtc@vpgt.lt
www.gtcentras.lt

Products Research Division
Miško str. 7, Valčiūnai vil.,
LT-13221 Vilnius distr.
Ph. +370 5 249 1313
Ph./fax.: +370 5 249 1315

2. Details of classified product

2.1 General

The product, thermal insulation assembly, is defined as thermal insulation product 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 assambly consists of:

1. 0,7 mm thickness standard (according to LST EN 15715 clause 6.3.2.2) corrugated steel sheet;
2. 50 mm (or 150 mm) thickness, 30-40 kg/m^3 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 Products Research Division	OOO "TechnoNikol – Stroitelnije sistemi"	20-1.2016.3 20-2.2016.3	LST EN 13823:2010 + A1:2015
Fire Research Centre Products Research Division	OOO "TechnoNikol – Stroitelnije sistemi"	20-29.2015.5	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 (50 mm PIR)	$FIGRA_{0,2MJ} \leq 120$ W/s LFS<edge of specimen $THR_{600s} \leq 7,5$ MJ	3	2,3 Yes 0,3	Compliant
	SMOGRA ≤ 30 m^2/s^2 $TSP_{600s} \leq 50$ m^2		5,4 45,8	Compliant
	Within 600 s there are any flaming droplets/particules		Yes	Compliant
LST EN 13823 (150 mm PIR)*	$FIGRA_{0,2MJ} \leq 120$ W/s LFS<edge of specimen $THR_{600s} \leq 7,5$ MJ	3	2,8 Yes 0,4	Compliant
	SMOGRA ≤ 30 m^2/s^2 $TSP_{600s} \leq 50$ m^2		4,5 42,2	Compliant
	Within 600 s there are any flaming droplets/particules		Yes	Compliant

*- 2 of 3 tests results recalculated according to LST EN 13823:2010 clause A.6.1.2

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 ≥ 50 mm.

5. Limitations

5.1 Restriction

The product classification is valid till 28th of January 2019.

5.2 Warning

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

Classification Report prepared by:

Chief Specialist

Valdas Striška

Classification Report approved by:

Head

Vytautas Jocius

Gaisrinių tyrimų centras