Classification Report of

Reaction to Fire acc. PN-EN 13501-1+A1:2010

Contract No 6011/11/R01NK

Client:	**L.S. Tech-Homes Sp. z o.o. ul. Korna 7/4 43-300 Bielsko-Biała**
Developed by:	**Laboratory of Fire Test Institute of Building Technology ul. Filtrowa 1 00-611 Warszawa**
Name of the product:	**Wall board of trading name LS-TECH-W17**
Classification report no:	**6011.2/11/R01NK**
Issue number: 1	**Copy 2**
Date of issue:	**21.11.2011**

This classification report consists of five pages and it can be used or copied only as the whole.

1. Introduction

This classification report determines classification given to the wall board of trading name LS-TECH-W17 according to the procedure specified in PN-EN 13501 -1+A1:2010.

2. Detailed information about the product subjected to classification

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2.1 General provisions

The product is specified as a wall board.

2.2 Description of the product

The product is described below. _____

Product description:

The wall board of the LS-TECH-W17 trading name consists of a foamed polystyrene core 150 mm thick and of density about 20 kg/m^3 and the outer claddings 11 mm thick, which are a magnesium board of the MgO Green-LS-TECH trading name. The outer layers are connected with the core by polyurethane glue.

The LS-TECH-W17 magnesium board is produced by firm L.S. Tech-Homes Sp. z o.o._____

3. Test reports and test results constituting basis for classification

3.1 Test report

Laboratory name	Client's name	Test report No	Test method
Laboratory of Fire Tests ITB	L.S. Tech-Homes Sp. z o.o.	LP04-6011/11/R01 NK	PN-EN ISO 11925-2:2010
		LP03-6011/11/R01 NK	PN-EN 13823:2010

3.2 Test results

Test method	Parameter	Number of tests	Results	
			Measured parameter, average value	Compatiiblityparameter
1	2	3	4	5
PN-EN ISO 11925-2 Surface influence of the flame on the face side of the board. Exposure 30 sec.	Flame propagation F_s ≤150 mm	3	(-)	Y
	Burning drops/particles		(-)	N
PN-EN ISO 11925-2 Edge influence of the flame from the face side of the board. Exposure 30 sec	Flame propagation F_s ≤150 mm	3	(-)	Y
	Burning drops/particles		(-)	N
PN-EN ISO 11925-2 Edge lateral influence of the flame on the foamed polystyrene . Exposure 30 sec	Flame propagation F_s ≤150 mm	3	(-)	Y
	Burning drops/particles		(-)	N

PN-EN ISO 11925-2 Edge lateral influence of the flame on the outer cladding. Exposure 30 sec.	Flame propagation F_s ≤150 mm	3	(-)	Y
	Burning drops/particles		(-)	N
PN-EN 13823	FI GRA $_{0,2MJ}$	3	1,1	(-)
	FI GRA $_{O,4MJ}$		1,1	(-)
	LFS < edge		(-)	T
	THR_{600s} [MJ]		0,8	(-)
	SMOG RA [m^2/s^2]		0,0	(-)
	TSP_{600S} [m^2]		36,6	(-)
	Burning drops/particles		(-)	N
(-): no applicable Y: yes N: no				

4 Classification and a scope of its application

4.1 Classification reference

The classification was determined according to PN-EN 13501-1+A1:2010.

4.2 Classification

The product, wall board LS-TECH-W17,obtained classification in the scope of a reaction to fire:

B

Due to smoke release, the product obtained additional classification:

s1

Due to presence of burning drops/particles, the product obtained additional classification:

dO

Classification format in a scope of the reaction to fire for building products, except floors and linear products for thermal insulating of lines, is following:

Fire proeprties		Smoke release			Burning drops	
B	-	**s**	**1**	5	**d**	**0**

that is.:B-s1,d0

Classification in a scope of a reaction to fire: B-s1,d0

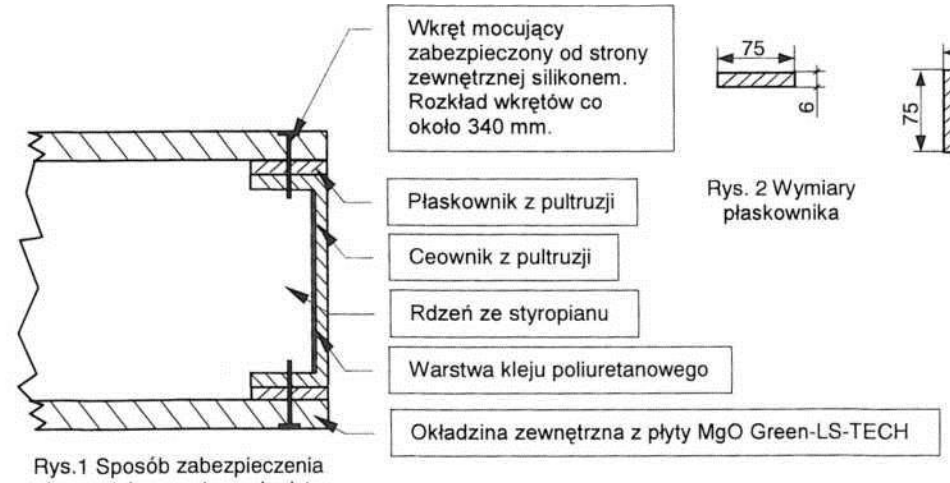
This classification report is valid for final applications according to technical conditions, which buildings and their location should meet, and as for a product which is “fire proof, non-dripping and no falling off under an influence of fire and for a product, which does not propagate fire inside buildings,” acc. Ordinance of Ministry of Infrastructure of 12th April 2002 (Journal of Law No 75 of 15 June 2002, item.690 as amended)

4.3 Application scope

- This classification includes wall board LS-TECH-W17 described in point 2.2, mounted mechanically directly to foundations or elements of a fire reaction class at least A2-s3,d0, excluding gypsum boards or at any distance from them.

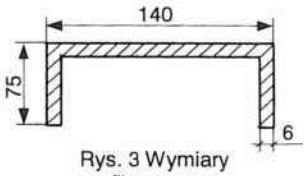
- This classification also includes a ceiling board of trading name LS-TECH-C25 M- M, having the same structure like one described in point 2.2, but with the foamed polystyrene 230 mm thick, mounted mechanically directly to foundations or elements of a fire reaction class at least A2-s3,d0, excluding gypsum boards or at any distance from them.

- This classification is valid for boards LS-TECH-W17 and LS-TECH-C25 M-M, of which all edges are protected with pultrusion flat bars and channel sections shown schematically in figure 1.



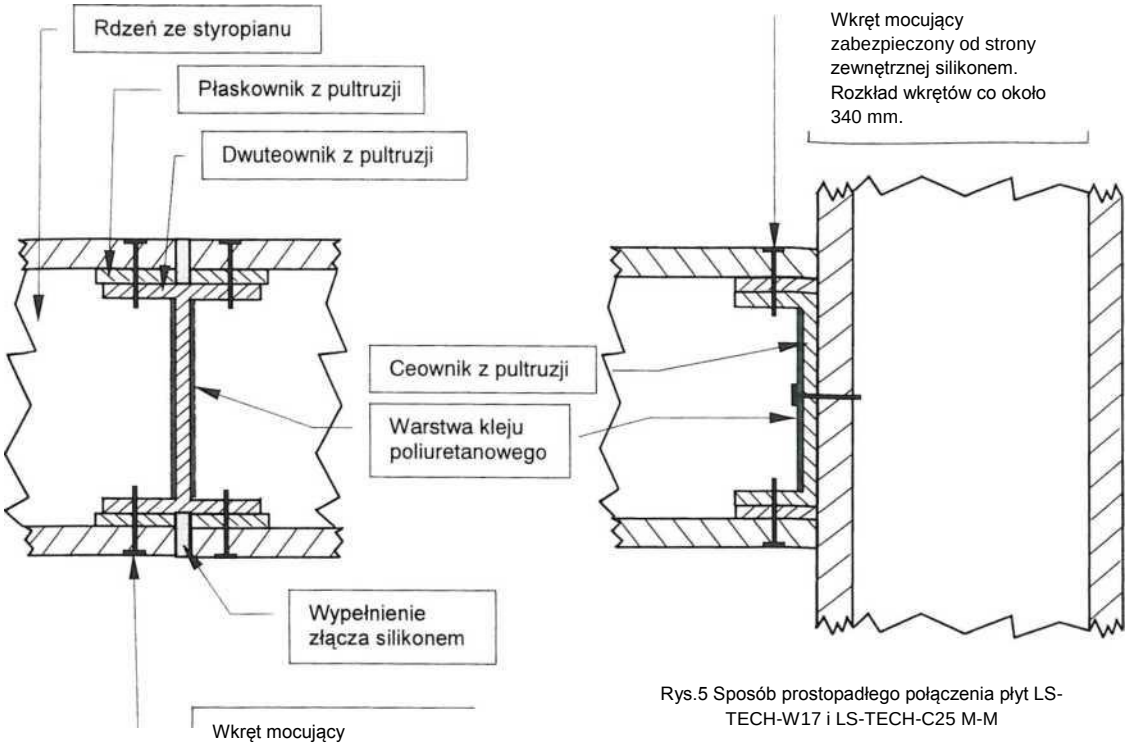
Rys.1 Sposób zabezpieczenia krawędzi zewnętrznych płyt LS-TECH-W17 i LS-TECH-C25 M-M

Rys. 2 Wymiary płaskownika



Rys. 3 Wymiary profilu ceowego

-This classification is valid for boards LS-TECH-W17 and LS-TECH-C25 M-M connected with each other shown schematically in figures 4 and 5.



Rys.5 Sposób prostopadłego połączenia płyt LS-TECH-W17 i LS-TECH-C25 M-M

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Rys.4 Sposób łączenia krawędziami płyt LS-TECH-W17 i LS-TECH-C25 M-M

Rys. 6 Wymiary płaskownika

Rys. 7 Wymiary profilu zastosowanego w złączu

5 Limitations

This classification is valid until:

- a test method is changed,
- the product standard or the technical approval of the product is changed,
- construction changes do not exceed the limits of the application scope determined in pt. 4.3.

This classification report was issued in 3 copies. Certified copies can be issued by Laboratory of Fire Tests of ITB only at an application of the report's Owner

This classification document constitutes neither an approval nor a product certificate.

Podp **Signed** **Accepted**

dr inż. Bartłomiej Papis

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