ITB	**Institute of Building Technology**
	Laboratory of Fire Tests

| **Complex of Research Laboratories** **Accredited by the Polish Accreditation Center** accreditation certificate no AB 023 **Laboratory of Fire Tests (LP)** | **PCA** Pciwnt CWTKWł JUtSCTtkt.il AB 023 | |

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:	**Floor board of trading name LS-TECH-F17**
Classification report no:	**6011.3/11/R01NK**
Issue number: 1	**Copy 2**
Date of issue:	**21.11.2011**

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

1. Introduction

This classification report determines classification given to the floor 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 floor board.

2.2 Description of the product

The product is described below.

Product description:

> The floor board of the LS-TECH-F17 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
ITB Laboratory of Fire Tests	L.S. Tech-Homes Sp. z o.	LP05-6011/11/R01 NK	PN-EN ISO11925-2:2010
		LP06-6011/11/R01 NK	PN-EN ISO 9239 – 1:2004

3.2 Test results

Test method	Parameter	Number of tests	Results Continuous parameter - average value (m)	Results Compatibility with parameter
LP05-6011/11/R01 NK				
PN-EN ISO11925-2:2010 Exposure 15 sec	Flame propagation ≤150 mm	3	(-)	Y
LP06-6011/11/R01 NK				
PN-EN ISO 9239 – 1:2004	Critical stream (kW/m^2)	3	11,0	(-)
	Smoke release (% x min)		0,9	(-)
(-): no applicable				

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, floor board LS-TECH-F17,obtained classification in the scope of a reaction to fire:

B$_{fl}$

Due to smoke release, the product obtained additional classification:

s1

Classification format in a scope of reaction to fire for floors is following:

Fire properties		Smoke release	
B$_{fl}$	-	**s**	1

that is: B$_{fl}$-s1

Classification in a scope of reaction to fire: B$_{fl}$-s1

This classification is valid for final applications according to technical conditions, which buildings and their location should meet, and as for a product which is " fire retardant" 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 is applicable to the following parameters specifying the product:
- The product described in point 2.2 of this classification report.
- This classification is applicable to the product described in point 2.2 of this classification report used on underlays of fire reaction classes A1 and A2, with thickness at least 6 mm and the minimum density of 1800 kg/m^3

5 Limitations

The given classification is valid unless:
- the test method is changed,
- the product standard or the product technical approval is changed,
- structural and material changes exceed the application scope determined in pt. 4.3.

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

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

Signed   Accepted

dr inż. Bartłomiej Papis   *Stamp: "* Head of Laboratory of Fire Tests

dr inż Andrzej Kolbrecki   dr Andrzej Borowy*"*