DECLARATION OF PERFORMANCE

No. SS-033/16.01

1. Unique product identification code:

Product name: **THERMO LAMBDA 033**

Product type: **EPS S**

Product code: **EPS-EN 13163-T1-L2-W2-Sb5-P5-BS100-DS(N)2-DS(70,-)2-TR100**

2. Intended application or applications:

Thermal insulation for buildings
For load withstanding applications

3. Producer:

ARSANIT sp. z o.o.
ul. Obwodowa 17
PL 41-100 Siemianowice Śląskie

Production plant
ul. Obwodowa 17
PL 41-100 Siemianowice Śląskie

4. System applied to evaluate performance stability:

AVCP 3

5. Harmonised standard:

EN 13163:2012+A1:2015

Thermal insulation products for buildings - Factory made expanded polystyrene (EPS) products. Specification

5a. Notified body/ bodies:

Building Research Institute – Notification number 1488

6. Declared performance:

ESSENTIAL CHARACTERISTICS	PERFORMANCE		HARMONIZED TECHNICAL SPECIFICATION
Thermal resistance	Thermal resistance and thermal conductivity	$R_D \geq$ see table below $\lambda_D \leq$ 0,033 W/mK	EN 13163:2012+A1:2015
	Thickness	d_N 10÷300 mm T1	
Reaction to fire	Reaction to fire	E	
Durability of reaction to fire against heat, weathering, ageing/degradation	Durability characteristics*	No changes	
Durability of thermal resistance against heat, weathering, ageing/degradation	Thermal resistance and thermal conductivity	$R_D^* \geq$ see table below $\lambda_D^* \leq$ 0,033 W/mK	
	Durability characteristics	No changes	
Compressive strength	Compressive stress or compressive strength	NPD	
Tensile/Flexural strength	Bending strength	BS100	
	Tensile strength perpendicular to faces	TR100	
Durability of compressive strength against ageing/degradation	Compressive creep	NPD	
	Freeze-thaw resistance	NPD	
	Long term thickness reduction	NPD	
Water permeability	Long term water absorption by immersion	NPD	
	Long term water absorption by diffusion	NPD	
Water vapour permeability	Water vapour transmission	NPD	
Impact noise transmission index *(for floors)*	Dynamic stiffness	NPD	
	Thickness, d_L	NPD	
	Compressibility *c*	NPD	
Continuous glowing combustion	Continuous glowing combustion	-	
Release of dangerous substances to the indoor environment	Release of dangerous substances	-	

* The property does not deteriorate with time

Declared thermal resistance

Panel thickness d_N [mm]	**10**	**20**	**30**	**40**	**50**	**60**	**70**	**80**	**90**	**100**	**110**	**120**	**130**	**140**	**150**
Thermal resistance R_D [m²·K/W]	0,30	0,60	0,90	1,20	1,50	1,80	2,10	2,40	2,70	3,00	3,30	3,60	3,90	4,20	4,50
Panel thickness d_N [mm]	**160**	**170**	**180**	**190**	**200**	**210**	**220**	**230**	**240**	**250**	**260**	**270**	**280**	**290**	**300**
Thermal resistance R_D [m²·K/W]	4,80	5,15	5,45	5,75	6,05	6,35	6,65	6,95	7,25	7,55	7,85	8,15	8,45	8,75	9,05

The performance of the product mentioned above complies with the set the declared performance. This Declaration of Performance has been issued according to Regulation (EU) No. 305/2011 to the sole responsibility of the Producer mentioned above.

On behalf of the Producer signed by:

Jacek Świtalski
(full name)

Szef Działu Badań i Rozwoju
ARSANIT Sp. z o.o.

in Siemianowice Śląskie on 15 April 2016
(place and date of issue)

(signature)

Jacek Świtalski