

1. Unique product identification code:

Product name: **THERMO LAMBDA 031**
 Product type: **EPS S**
 Product code: **EPS-EN 13163-T1-L2-W2-Sb5-P5-BS115-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 $\lambda_D \leq 0,031$ W/mK
	Thickness	$d_N \geq 10+300$ 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 $\lambda_D^* \leq 0,031$ W/mK
	Durability characteristics	No changes
Compressive strength	Compressive stress or compressive strength	NPD
Tensile/Flexural strength	Bending strength	BS115
	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	-

EN
13163:2012+A1:2015

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

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 Świątalski
 (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 Świątalski