

# GRAPHITE WALL INSULATION PANELS



## TECHNICAL DATA SHEET

### DESCRIPTION

The GRAPHITE WALL INSULATION PANELS ( Expanded Polystyrene EPS 70 External Insulation Panels ) are manufactured by BPW Insulation Ltd at our factory in Duagh, Listowel, Co. Kerry, Ireland.  
The product is manufactured to EN 13163: 2009 Thermal Insulation Products for Buildings - External Insulation Composite Systems (ETICS)- Factory made products of expanded polystyrene (EPS) - Specification.

### CERTIFICATION

BPW Insulation Ltd products have been tested by independent accredited laboratory and awarded with CE Mark.  
The production process is monitored by Quality Control Plan on the daily basis to achieve highest quality and standards of our products.

### PROPERTIES

NAME OF PRODUCT		GRAPHITE WALL INSULATION PANELS	
Designation code ( indicates declared levels or classes of product properties)		EPS EN 16163:2009 T2-L2-W2-S2-P4-BS115-CS(10)70-DS(N)2-DS(70,-)1-TR150	
Declared properties of the product according to EN 13163:2009	Unit of measurement	Requirements or tolerances	
		Codes of classes or levels	Values
Thickness (dimensional tolerance class)	[mm]	T2	± 1
Length (dimensional tolerance class)	[mm]	L2	± 2
Width (dimensional tolerance class)	[mm]	W2	± 2
Squareness (dimensional tolerance class )	[mm/mm]	S2	± 2/1000
Flatness (dimensional tolerance class)	[mm]	P4	± 5
Bending strength	[kPa]	BS115	115
Compressive strenght	[kPa]	CS(10)70	70
Dimensional stability under constant normal laboratory conditions	[%]	DS(N)2	± 0,2
Dimensional stability under specified temperature and humidity conditions	[%]	DS(70,-)1	1
Tensile strength perpendicular to faces	[kPa]	TR150	150
Declared thermal conductivity	[W/(m·K)]	[-]	0,031
Declared thermal resistance	[m²·K/W]	(thickness-dependent) please see table below	
Reaction to fire	from A to F	Euroclass	E

DECLARED THERMAL RESISTANCE (RD) FOR BOARD THICKNESS																			
Thickness [mm]																			
10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
Thermal resistance (RD) [m²K/W]																			
0,32	0,64	0,97	1,29	1,61	1,94	2,26	2,58	2,90	3,23	3,55	3,87	4,19	4,52	4,84	5,16	5,48	5,81	6,13	6,45