

PRODUCT TECHNICAL SPECIFICATION SHEET

Product	EPS 70 Original External Insulation Panels
Specification Number	PSS 102
Revision	4
Approved By	Jackie Leahy

Product Application

An external insulation system can be used on new or existing buildings. The original insulation panel is either bonded or mechanically fixed to external blockwork and finished with an approved render system.

Product Description

The insulation panels are manufactured from a closed cell material with excellent thermal insulation properties. The cells in the panels contain air, not gas, ensuring consistent performance during the lifetime of the product.

The standard dimension for this product is L1000 x W500 x Desired Thickness mm. Alternative dimensions are available upon request.

External insulation panels are manufactured under tight quality assurance controls in compliance with ISO 9001:2008 and EN 13163:2008.

To ensure dimensional stability all panels are produced from blocks that have been aged for a minimum of six weeks.

Handling and Use

No specific health and safety pre-cautions need to be taken when handling or using the platinum panels. The panels are chemically and biologically neutral and are CFC, HCFC and HFC free.

Care must be taken to ensure that PVC cables do not come in direct contact with expanded polystyrene as outlined in the National Rules of the Electro/Technical Council of Ireland.

The panels should be protected from UV radiation and the insulation should not be exposed to high temperatures (>80°C) or exposed to sources of ignition.

Care should be taken when handling the external insulation panels to avoid damaging / deforming the corner edges.

Product Specifications

Property	Test Method	Class	Value
Length	EN 822	L2	± 2mm
Width	EN 822	W2	± 2mm
Thickness	EN 823	T2	± 1mm
Squareness	EN 824	S2	± 2mm/1000mm
Flatness	EN 825	P4	± 5mm
Dimensional Stability	EN 1604	DS(N)2	Max 0.2 %
Dimensional Stability	EN 1604	DS(70,-)1	Max 1.0 %
Water Absorption (long term partial immersion)	EN 12087	-	≤ 0.5
Water Vapour Diffusion Resistance Factor	EN 12086	-	20 – 40 μ
Shear Strength	EN 12090	-	$0.02 \leq f_{tk} \leq 0.17$
Shear Modulus	EN 12090	-	$1.0 \leq G_m \leq 3.8$
Tensile Strength Perpendicular to the faces	EN 1607	TR150	$\delta \text{ mt} \geq 80$
Thermal Conductivity	EN 12667	-	≤ 0.038 W/mK
Compressive Strength at 10% compression	EN 826	CS(10)70	≥ 70 kPa
Bending Strength	EN 12089	BS 115	≥ 115 kPa
Reaction to Fire	EN 13501	E	-
Water Vapour Permeability	EN 12086	-	0.18 to 0.036 mg/Pa.h.m

Further Information

Should you require further information on this product or another Aerobord Insulation product please visit our website or contact one of our Technical Experts at

www.aerobord.ie