STRUCTURAL INSULATED PANEL



DATASHEET

EPS

Physical	EPS 70	EPS 100	EPS 125
Properties			
Thermal Conductivity (W/mK)	0.038	0.036	0.034
Compressive Strength at 10% (kPa)	70	100	125
Bending Strength (kPa)	115	150	175
Water Vapour Permeability (mg Pa.h.m)	0.015-0.030	0.009-0.020	0.009-0.020
Water Vapour Diffusion Resistance (µ)	20-40	30-70	30-70
Reaction to Fire Standard EPS	F	F	F
Reaction to Fire FRA EPS	Е	Е	Е
Length Tolerance	L2	L2	L2
Width Tolerance	W2	W2	W2
Thickness Tolerance	T2	T2	T2
Flatness Tolerance	P5	P5	P5
Squareness	S2	S2	S2
Dimensional Stability	DS (N) 5	DS (N) 5	DS (N) 5
BRE Green Guide Rating	A+	A+	A+

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OSB3

Property	Designation	Thickness: 11mm		
Characteristic Strength Properties				
(N/mm2)				
Bending Strength				
Parallel to span	fm, 0, k	16.4		
Perpendicular to span	fm, 90, k	7.4		
Tensile Strength				
Parallel to span	ft, 0, k	9.4		
Perpendicular to span	ft, 90, k	7.0		
Compressive Strength				
Parallel to span	fc, 0, k	15.4		
Perpendicular to span	fc, 90, k	12.7		
Shear Strength				
Panel	fv, k	6.8		
(as a racking panel)				
Planar	fv, r, k	1.0		
(as floor decking)				
Stiffness Properties				
(N/mm²)				
Modulus of elasticity				
Mean, in bending parallel	E0, mean	4930		
to span				
Mean, in bending	E90, mean	1980		
perpendicular to span				
Mean, in tension and	Ect, 0, mean	3800		
compression parallel to				
span				
Mean, in tension and	Ect, 90, mean	3000		
compression				
perpendicular to span				
Shear modulus				
Panel (as in a racking	Gv, mean	1080		
panel)				
Planar (as in floor	Gr, mean	50		
decking)	, '			
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OSB3 Notes:

- 0 = in the direction of the major axis.
- 90 = in the direction of the minor axis.
- These properties relate to an equilibrium moisture content of the test pieces conditioned at a temperature of 20°C and a relative humidity of 65%.
- The 5th percentile characteristic values for stiffness should be taken as 0.85 x the mean values given in the table

Please Note:

The information contained within this datasheet is true and accurate at the date of issuance and is subject to change without prior notice. It is for guidance only the proper use and application of this product is the responsibility of the user.

Oxfordshire SIPs Ltd

The Mill House, Mill Lane, Chalgrove, Oxfordshire, OX44 7SL VAT Reg No. 381259583 - Company Reg No. 12670736



