

Product Datasheet

Extruded Polystyrene Plus Insulation

 Sheet No: PD100eFR
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PROPERTY	STANDARD	UNIT	VALUE	EN CODE
Thermal Conductivity Declared Value Thickness 50-205mm	BS EN 13164	W/(mK)	0.027	λD

MECHANICAL PROPERTIES	STANDARD	UNIT	VALUE	EN CODE
Compressive strength or compressive stress at 10% deformation (90 days)	BS EN 826	kPa	300	CS(10\Y)
Compressive creep (design load) max 2% deflection after 50 years ²⁾	BS EN 1606	kPa	110	CC(2/1.5/50)σc
E-Modulus (typical)	BS EN 826	MPa	12-20	-

HYGROMETRIC PROPERTIES	STANDARD	UNIT	VALUE	EN CODE
Long term water absorption by immersion (28 days) Long term water absorption by diffusion	BS EN 12087	Vol-%	≤0.7	WL(T)
dN ≥ 50mm to <80mm	BS EN 12088	Vol-%	≤2	WD(V)
dN >80mm	BS EN 12088	Vol-%	≤1	WD(V)
Water vapour diffusion resistance factor μ	EN ISO 10456	-	150	MU
Freeze/thaw, after 300 cycles	BS EN 12091	Vol-%	≤1	FTCD
Dimensional stability under specified temperature and humidity conditions	BS EN 1604	%	≤5	DS(70,90)
Deformation under specified compressive load and temperature conditions	BS EN 1605	%	≤5	DLT(2)5

DIMENSIONS AND TOLERANCES	STANDARD	UNIT	VALUE	EN CODE
Thickness	BS EN 823	mm	50-205	T1
Width	BS EN 822	mm	600	-
Length	BS EN 822	mm	1250	-

OTHER PROPERTIES	STANDARD	UNIT	VALUE	EN CODE
Reaction to fire	BS EN 13501-1	-	E	Euroclass
Linear thermal expansion coefficient	-	Mm/mK	0.07	-
Maximum service temperature	-	°C	-50/+75	-
Capillarity	-	-	0	-
Typical density	BS EN 1602	Kg/m ³	32	-
Surface	-	-	Skin	-
Edge profile	-	-	Shiplap	-

Health & Safety

Safety Data Sheets are available upon request and can also be downloaded directly from www.alumascroofing.com.

Technical Support

Technical advice is available from Alumasc Technical Services at:

Telephone: +44 (0)1744 648400

Email: technical@alumascroofing.com

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