

Technical data Styrodur® 4000 CS

Thermal conductivity Styrodur®

Thermal conductivity W/(mK) and thermal resistance (m²K)/W of Styrodur®

Thermal conductivity	$\lambda_{D(90d)}$	
Thermal resistance		R_D
Thickness		
60 mm	0,035	1,70
80 mm	0,035	2,25
100 mm	0,035	2,85
120 mm	0,035	3,40
140 mm	0,035	4,00

Application

Extruded polystyrene foam board with high compressive strength, smooth surface and, rebate edge according to DIN EN 13164 and ETA - 190120 for a wide range of applications. Approved for all perimeter and inverted roof applications.

(see respective general type approval)

Characteristics	Unit	4000 CS	Standard/ETA
CE marking	XPS-EN 13164-T1-DS(70,90)5-DLT(2)5-CS(10\Y)500-WL(T)0,7-WD(V)1-FTCD1-MU100-CC(2/1,5/50)180		
Compressive strength or compressive stress at 10 % compression ¹⁾	kPa	500	DIN EN 826
Permanent compressive strength, creep (50 years, compression <2%) ²⁾		180	DIN EN 1606
Reaction to fire	Euroclass	E	DIN EN 13501-1
Long term water absorption by total immersion	Vol.-%	0,7	DIN EN 12087
Water vapor diffusion resistance factor		50 - 100	DIN EN 12086
Long term water absorption by diffusion*	Vol.-%	< 100 mm 3 ≥ 100 mm 1	DIN EN 12088
Linear coefficient of thermal expansion		Longitudinal direction 0,08 mm (m.K) Transverse direction 0,06 mm (m.K)	DIN 53752
Freeze-thaw resistance FTCD	Vol.-%	1	DIN EN 12091
Application limit temperature	°C	75	DIN EN 14706
Application	Inverted roofs (gravel, paving and green roofs), under screed insulation, under slab insulation, basement perimeter walls, cavity wall insulation		

Delivery forms

Edge profile	
Surface	smooth
Cover surface	1250 x 600
Length x width	1265 x 615

Variants (thickness)	Thickness in mm	Panel / fret	m ³ /fret	m ² /fret	Storage instructions: During prolonged storage, Styrodur® panels must be protected from direct sunlight.
	60	7	0,315	5,25	
	80	5	0,3	3,75	
	100	4	0,3	3,0	
	120	3	0,27	2,25	
	140	3	0,315	2,25	

¹⁾ 100 kPa = 10 N/cm² = 100 kN/m² = 10 to/m²

²⁾ Rated value of the lateral stress according to general terms and conditions

* ETA = European Technical Assessment

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