

Technical data Styrodur® 2800 C

Thermal conductivity Styrodur®

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

Thermal conductivity	$\lambda_{D(90d)}$	
Thermal resistance		R_D
Thickness		
20 mm	0,033	0,60
30 mm	0,033	0,90
40 mm	0,033	1,20
50 mm	0,034	1,45
60 mm	0,034	1,75
80 mm	0,035	2,25
100 mm	0,035	2,85
120 mm	0,036	3,30
140 mm	0,036	3,85
160 mm	0,036	4,40
180 mm	0,036	5,00
200 mm	0,036	5,55

$\lambda_{D(90d)}$ = declared thermal conductivity according to EAD-040650-00-1201; this value indicates the expected thermal conductivity after a service life of 50 years, proven through our own Factory Production Control (FPC) and inspected by a certified testing institute

R_D = declared thermal resistance according to DIN EN 13164

Application

Extruded polystyrene foam board according to DIN EN 13164, with textured surface on both sides and smooth edges, the waffle-patterned surface gives the product excellent adhesion, which makes it ideal for use as an insulated render board.

Characteristics	Unit	2800 C	Standard/ETA
CE marking: (20 - 60 mm)	XPS-EN 13164-T1-DS(70,90)5-DLT(2)5-CS(10\Y)200-TR200-MU100-WL(T)3		
CE marking: 80 - 200 mm	XPS-EN 13164-T1-DS(70,90)5-DLT(2)5-CS(10\Y)300-TR200-MU100-WL(T)3		
Compressive stress at 10% deformation or compressive strength ¹⁾	kPa	200 (20 - 60 mm) 300 (80 - 200 mm)	DIN EN 826
Adhesion to concrete	kPa	200	DIN EN 1607
Reaction to fire	Euroclass	E	DIN EN 13501-1
Long term water absorption by total immersion	Vol.-%	3,0	DIN EN 12087
Long term water absorption by diffusion	Vol.-%	-	DIN EN 12088
Freeze-thaw resistance FTCD	Vol.-%	-	DIN EN 12091
Application limit temperature	°C	75	DIN EN 14706
Application	As insulated render board, as base insulation, for cast-in concrete, as thermal bridge insulation		

Delivery forms

Edge profile	
surface	embossed
Length x width	1265 x 600

Variants (thickness)	Thickness in mm	Panel/fret	m ³ /fret	m ² /fret
	20	20	0,3	15
	30	14	0,315	10,5
	40	10	0,3	7,5
	50	8	0,3	6,0
	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
	160	2	0,24	1,50
	180	2	0,27	1,50
	200	2	0,30	1,50

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

Storage instructions:

During prolonged storage, Styrodur® panels must be protected from direct sunlight.

The information in this publication is based on our current knowledge and experience. A guarantee of certain properties or the suitability of the product for a specific application cannot be derived from the information provided by us. All descriptions, drawings, photographs, data, ratios, weight etc. contained herein are subject to change without notice and do not represent the contractually agreed quality of the product. Subject to technical changes, dimensional changes, printing errors and mistakes. Last revised: April 2026.

Karl Bachl Kunststoffverarbeitung GmbH & Co. KG

Deching 3 | 94133 Röhrnbach | Tel. +49 8582 809-350 | info@styrodur.de | www.styrodur.de