

Technical data Styrodur® 3035 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		
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	0,035	3,40
140 mm	0,035	4,00
160 mm	0,036	4,40

$\lambda_{D(90d)}$ = 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 monitoring institute

R_D = declared thermal conductivity according to DIN EN 13164

Application

Extruded polystyrene foam board with high compressive strength, smooth surface, and rebate edge according to DIN EN 13164 and ETA - 200219 for a wide range of applications. Approved for all perimeter and inverted roof applications.

(see respective general type approval)

Characteristics	Unit	3035 CS	Standard/ETA
CE marking	XPS-EN 13164-T1-DS(70,90)-DLT(2)5-CS(10\Y)300-WL(T)0,7-WD(V)1-FTCD1-MU100-CC(2/1,5/50)130		
Compressive stress at 10% deformation or compressive strength ¹⁾	kPa	300	DIN EN 826
Permanent compressive strength, creep (50 years, compression <2%) ²⁾	kPa	130	DIN EN 826
Reaction to fire	Euroclass	E	DIN EN 13501-1
Long term water absorption by total immersion	Vol.-%	0,7	DIN EN 12087
Long term water absorption by diffusion ³⁾	Vol.-%	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	m³/fret	m²/fret
	30	14	0,315	10,5
	40	10	0,3	7,5
	50	8	0,3	6,0
	60	7	0,345	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

Storage instructions:

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

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

³⁾ >100mm, <100mm WD(V)3

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