TECHNICAL DATA

Building Solutions

XENERGY™ LB

Extruded polystyrene foam XPS (EN13164) - HFC free - gray color				
EN designation code	XPS-EN13164-T3-CS(10\Y)300-DS(TH)-TR400			
Property	**Standard**	**Value**	**Unit**	**EN code**
Thermal conductivity				
Declared value[1]				
- Thickness 30 - 50 mm	EN 13164	0.030	W/mK	λ_D
- Thickness > 50 - 80 mm	EN 13164	0.031	W/mK	λ_D
- Thickness > 80 - 120 mm	EN 13164	0.032	W/mK	λ_D
Mechanical properties				
- Compressive strength σ_m or compressive stress at 10% deformation σ_{10} (⊥ to the faces)	EN 826	0.3 300	N/mm² kPa	**CS(10\Y)300**
- Compression modulus of elasticity (⊥ to the faces)	EN 826	12	MPa	-
- Tensile Strength σ_{mt} (⊥ to the faces)	EN 1607	500	kPa	**TR400**
- Tensile modulus of elasticity (⊥ to the faces)	EN 1607	12	MPa	-
- Shear Strength	EN 12090	250	kPa	-
- Shear modulus of elasticity	EN 12090	8	MPa	-
Hygrometric properties				
- Long term water absorption by immersion (28 days)	EN 12087	≤ 1.5	vol %	
- Water vapour diffusion resistance factor (μ), typical	EN 12086	100	-	-
Dimensional stability:				
- Under specified temperature and humidity conditions: 48h at 23°C / 90%RH	EN 1604	≤ 2	%	**DS(TH)**
Dimensions and tolerances[2]				
- Thickness range	EN 823	30 - 120	mm	-
- Thickness tolerance	EN 823	-/+ 0.5	mm	**T3**
- Width	EN 822	600	mm	-
- Width tolerance	EN 822	- 0/+3	mm	-
- Length tolerance	EN 822	- 0/+10	mm	-
Other properties				
- Reaction to fire	EN 13501-1	E	-	**Euroclass**
- Linear thermal expansion coefficient	-	0,07	mm/m.K	
- Maximum service temperature	-	+75	°C	
- Capillarity	-	0	-	
- Density, typical	EN 1602	33	kg/m³	
- Surface:	-	-	-	**Planed**
- Edge profile:	-	BE	-	**Butt Edge**

1) Declared thermal conductivity λ_D according to EN 13164 (§ 4.2.1; Annex A; Annex C.2 and C.4.1)
2) Products with special dimensions or closer tolerances may be available upon request

Thermal resistance R_D according to EN 13164 (§ 4.2.1):

Thickness [mm]	30	40	50	60	70	80	90	100	120
R_D [m².K/W]	1.00	1.35	1.65	1.95	2.25	2.60	2.80	3.15	3.75

Note:
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