



## Dow Building Solutions

### Technical Data

# XENERGY™ SL Plus

Extruded polystyrene foam XPS (EN13164) – grey color				
Property <sup>1)</sup>	Standard	Unit	Value	EN code
Thermal conductivity Declared value <sup>1)</sup>				
Thickness 50 – 200 mm	EN 13164	W/mK	0,029	$\lambda_D$
Mechanical properties				
Compressive strength or compressive stress at 10% deformation (90 days)	EN 826	kPa	300	CS(10\Y)i
Compressive creep (design load) max 2% deflection after 50 years <sup>2)</sup>	EN 1606	kPa	110	CC(2/1.5/50) $\sigma_c$
E-Modulus (typical)	EN 826	MPa	12-20	–
Hygrometric properties				
Long term water absorption by immersion (28 days)	EN 12087	Vol-%	≤0,7	WL(T)i
Long term water absorption by diffusion dN < 50 mm	EN 12088	Vol-%	≤3	WD(V)i
dN ≥ 50 mm to <80 mm	EN 12088	Vol-%	≤2	WD(V)i
dN ≥ 80 mm	EN 12088	Vol-%	≤1	WD(V)i
Water vapour diffusion resistance factor $\mu$	EN ISO 10456	–	150	MU
Freeze/thaw, after 300 cycles	EN 12091	Vol-%	≤1	FTCD1
Dimensional stability under specified temperature and humidity conditions	EN 1604	%	≤5	DS(70,90)
Deformation under specified compressive load and temperature conditions	EN 1605	%	≤5	DLT(2)5
Dimensions and tolerances				
Thickness	EN 823	mm	50 – 200	T1
Width	EN 822	mm	600	–
Length	EN 822	mm	1250	–
Other properties				
Reaction to fire	EN 13501-1	–	E	Euroclass
Linear thermal expansion coefficient	–	mm/m.K	0,07	–
Maximum service temperature	–	°C	-50/+75	–
Capillarity	–	–	0	–
Typical density	EN 1602	kg/m <sup>3</sup>	32	–
Surface	–	–	skin	–
Edge profile	–	–	shiplap	–

**EN designation code: T1-CS(10\Y)300-CC(2/1,5/50)110-DS(70,90)-DLT(2)5-WL(T)0.7-WD(V)1,2,3<sup>2)</sup>-FTCD1**

1) The properties refer to thickness ranges mentioned in the table

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