

USLPore® Insulation Board



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Product description

USLPore® is used as an aerated lightweight concrete board for insulation purposes. It fulfills all requirements for a modern insulation material. Environmentally-friendly manufactured it is an ideal solution to substitute organic insulation materials such as expanded polystyrene (EPS) and polyurethane (PU) or inorganic ones such as mineral wool.

Highlights

- Thermal conductivity: 0.040 [W/mK]
- Worldwide unique low density 90-120 [kg/m³]
- Fireproofed (totally inorganic)
- Fully recyclable (ordinary construction waste)
- High steam diffusion (no mold / mildew)



Specification

Metric			USLPore®100-125
	Standard	entity	Value
dry bulk density $\rho_{105\text{ °C}}$	DIN EN 1602 [2]	[kg/m ³]	100-125
moisture absorption $\Delta_m, 23/80$	DIN EN ISO 12571 [3]	[%]	<19.0
thermal conductivity $\lambda_{10, tr}$	DIN EN 12667 [13]	[W/mK]	0.038-0.045
compressive strength $\sigma_{10\%}$	DIN EN 826 [4]	[KPa]	250-350
tensile strength σ_{mt}	DIN EN 1607 [5]	[KPa]	80-112
bending / flexural strength σ_b	DIN EN 12089 Methode B [6]	[KPa]	80-112
fire behaviour	DIN EN 13501		A1
steam diffusion μ	DIN EN ISO 12572 [10]		<4.0
Dimension stability	DIN EN 1604 [11]	[%]	<0.1

Imperial			USLPore®100-125
	Standard	Entity	value
dry bulk density $\rho_{105\text{ °C}}$	ASTM C 1693	[pcf]	6.2-7.8
moisture absorption $\Delta_m, 23/80$	ASTM C 1693	[%]	<19.0
thermal conductivity $\lambda_{10, tr}$	ASTM C 177 ASTM C 518	[R-value per in] Dry	3.1-3.8
compressive strength $\sigma_{10\%}$	ASTM C 1693	[PSI]	36-51
tensile strength σ_{mt}	ASTM C496 ASTM C1660	[PSI]	11.5-16.5
bending / flexural strength σ_b	ASTM C 1609	[PSI]	11.5-16.5
fire behaviour	ASTM E84 ASTM E136		non combustible
Dimension stability	ASTM C 1693	[%]	<0.1

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