

USLPore® Structural Insulated Sheathing



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Product description

USLPore® is used as an insulating core of structural sheathing elements. The core consists of a specific foam concrete, cellular lightweight concrete. This worldwide unique construction system is developed and engineered in the United States of America (USA). It's reducing the overall construction time and generating value for your construction project.

An innovative structural insulated sheathing system for the building envelope. Installation is quick and eliminates many of the steps and complexity required in common code-mandated assemblies.

With its superior performance, the Structural Insulated Sheathing is installed faster and is creating more value for the building owner and contractor.

Highlights

- Engineered in the USA
- Faster construction, completely prefabricated
- Cost effective building method
- High quality standards
- Sustainability
- Fireproofed construction material
- Suitable for demising walls



Specification

Metric			USLPore®100	USLPore®200
	Standard	entity	value	Value
dry bulk density $\rho_{105\text{ °C}}$	DIN EN 1602 [2]	[kg/m ³]	95-105	200
moisture absorption $\Delta_{m, 23/80}$	DIN EN ISO 12571 [3]	[%]	<19.0	<19.0
thermal conductivity $\lambda_{10, tr}$	DIN EN 12667 [13]	[W/mK]	0.037	0.06
thermal conductivity λ	DIN EN 12667 [13]	[W/mK]	0.043	0.075
compressive strength $\sigma_{10\%}$	DIN EN 826 [4]	[KPa]	>250	>300
tensile strength σ_{mt}	DIN EN 1607 [5]	[KPa]	>80	>100
bending / flexural strength σ_b	DIN EN 12089 Methode B [6]	[KPa]	>80	>100
fire behaviour	DIN EN 13501		A1	A1
steam diffusion μ	DIN EN ISO 12572 [10]		<4.0	<4.0
Dimension stability	DIN EN 1604 [11]	[%]	<0.1	<0.1

Imperial			USLPore®100	USLPore®200
	Standard	entity	value	value
dry bulk density $\rho_{105\text{ °C}}$	ASTM C 1693	[pcf]	5.9-6.6	12.5
moisture absorption $\Delta_{m, 23/80}$	ASTM C 1693	[%]	<19.0	<19.0
thermal conductivity $\lambda_{10, tr}$	ASTM C 177 ASTM C 518	[R-value per in] Dry	3.9	1.5
thermal conductivity λ	ASTM C 177 ASTM C 518	[R-value per in] considering moisture	3.4	1.3
compressive strength $\sigma_{10\%}$	ASTM C 1693	[PSI]	>36.3	>51.0
tensile strength σ_{mt}	ASTM C496 ASTM C1660	[PSI]	>11.6	>16.3
bending / flexural strength σ_b	ASTM C 1609	[PSI]	>11.6	>16.3
fire behaviour	ASTM E84 ASTM E136		non combustible	non combustible
Dimension stability	ASTM C 1693	[%]	<0.1	<0.1

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