

USLPore® Reinforced Wall Panel



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Product description

USLPore® can be used to manufacture a two or three layer wall panel. Either the insulation layer is in the middle and embedded by two stronger outside layers or there is only one stronger internal layer and a lighter external insulation layer that has to be plastered surely to avoid damage.

Due to the freezing – thawing point the version with external insulation is the preferred one in regards to technical properties whereas the option with embedded insulation layer in the middle is the better one in regards to better handling and construction as the risk of damage is less due to a higher compressive strength of the two outer layers. Both versions are leading to a fast and accurate construction method as the pre-fabricated panels can be transported to the site and installed in a very fast way.

USLPore® can also be poured into a light-gauge steel frame system in a prefabricated way.

Highlights

- Faster construction, completely prefabricated
- Cost effective building method
- High quality standards
- Sustainability
- Fireproofed construction material



Specification

Metric	USLPore®800-1400		
	Standard	entity	value
dry bulk density $\rho_{105\text{ °C}}$	DIN EN 1602 [2]	[kg/m ³]	400-1400
thermal conductivity $\lambda_{10, \text{tr}}$	DIN EN 12667 [13]	[W/mK]	0.23 - 0.47
compressive strength $\sigma_{10\%}$	DIN EN 826 [4]	[MPa]	3.5-12.0

Imperial	USLPore®400-1400		
	Standard	entity	value
dry bulk density $\rho_{105\text{ °C}}$	ASTM C 1693	[pcf]	49.9-87.4
thermal conductivity $\lambda_{10, \text{tr}}$	ASTM C 177 ASTM C 518	[R-value per in]	0.31-0.63
compressive strength $\sigma_{10\%}$	ASTM C 1693	[PSI]	515-1764

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