

## LithoPore® LPAC Pre Cast Sandwich Wall Panel



[www.blauer-engel.de/uz132](http://www.blauer-engel.de/uz132)

- low emissions
- low pollutant content
- no adverse impact on health in the living environment

### Contact

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## Product description

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**LithoPore® - LPAC Pre Cast Sandwich Wall Panel** can be manufactured as 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 very fast and accurate construction method however as the pre-fabricated panels can be transported to the site and installed in a very fast way.

## Highlights

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- Fireproofed (totally inorganic)
- Fully recyclable (ordinary construction waste)
- Sustainable
- Pre-fabricated and therefore cost savings due to construction method



## Specification

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### Insulation layer

Metric	LithoPore150-300		
	Standard	entity	value
dry bulk density $\rho_{105\text{ }^{\circ}\text{C}}$	DIN EN 1602 [2]	[kg/m <sup>3</sup> ]	150-300
thermal conductivity $\lambda_{10, \text{tr}}$	DIN EN 12667 [13]	[W/mK]	0,045 - 0,080
compressive strength $\sigma_{10\%}$	DIN EN 826 [4]	[KPa]	250-900

Imperial	LithoPore150-300		
	standard	entity	value
dry bulk density $\rho_{105\text{ }^{\circ}\text{C}}$	ASTM C 1693	[pcf]	9.4-18.7
thermal conductivity $\lambda_{10, \text{tr}}$	ASTM C 177 ASTM C 518	[R-value per in]	1.9-2.9
compressive strength $\sigma_{10\%}$	ASTM C 1693	[PSI]	37-132

### Cover layer

Metric	LithoPore800-1400		
	Standard	entity	value
dry bulk density $\rho_{105\text{ }^{\circ}\text{C}}$	DIN EN 1602 [2]	[kg/m <sup>3</sup> ]	800-1400
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

Imperial	LithoPore800-1400		
	standard	entity	value
dry bulk density $\rho_{105\text{ }^{\circ}\text{C}}$	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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The information contained in this product specification is based on our current state of knowledge and experience. It does not free the user from making his own tests and trial applications. A legally binding assurance of certain properties cannot be inferred from this information. Any existing patent rights as well as any pertinent legal regulations must be observed by the recipient of our products under his own responsibility.

