

LithoPore® LPAC Pre Cast Sandwich Facade Element



www.blauer-engel.de/uz132

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

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Product description

LithoPore® - LPAC Pre Cast Sandwich Facade Element can be manufactured as a three layer system. The outer layer can be a brick veneer that will be embedded into a thin layer (10-30 mm) of LPAC800-1400, so a product with higher density. In this case the brick veneers are fixed completely.

The third layer (internal) will be an insulating material such as LPAC150-300, with a dry density of 150-300 kg/m³ to achieve an optimum insulation effect of the building element. The insulation layer can be varied in thickness depending on the requirement for insulation (50-150 mm).

Highlights

- Fireproofed (totally inorganic)
- Fully recyclable (ordinary construction waste)
- Completely pre fabricated facade element
- Faster and costs effective construction method



Specification

Insulation layer

Metric	LithoPore150-300		
	Standard	entity	value
dry bulk density $\rho_{105\text{ }^{\circ}\text{C}}$	DIN EN 1602 [2]	[kg/m ³]	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 ³]	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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