

LithoPore® LPAC Shoulder Block



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 Shoulder Block is an aerated lightweight concrete shoulder block for roofing systems. It is specifically designed to meet all requirements for building materials in emerging countries where quick, easy and cost-effective building is a key.

Highlights

- Fireproofed (totally inorganic)
- Fully recyclable (ordinary construction waste)
- Durable and sustainable
- Energy saving, excellent insulation



Specification

Metric			LithoPore500	LithoPore600
	Standard	entity	value	value
dry bulk density $\rho_{105\text{ }^{\circ}\text{C}}$	DIN EN 1602 [2]	[kg/m ³]	450-550	550-650
moisture absorption Δ_m , 23/80	DIN EN ISO 12571 [3]	[%]	<15.0	<15.0
thermal conductivity $\lambda_{10, \text{tr}}$	DIN EN 12667 [13]	[W/mK]	0.13	0.16
thermal conductivity λ	DIN EN 12667 [13]	[W/mK]	0.16	0.19
compressive strength $\sigma_{10\%}$	DIN EN 826 [4]	[MPa]	>2	>3
tensile strength σ_{mt}	DIN EN 1607 [5]	[MPa]	>0.65	>1
fire behaviour	DIN EN 13501		A1	A1
steam diffusion μ	DIN EN ISO 12572 [10]		<2.0	<2.0
Dimension stability	DIN EN 1604 [11]	[%]	<0.1	<0.1

Imperial			LithoPore500	LithoPore600
	standard	entity	value	value
dry bulk density $\rho_{105\text{ }^{\circ}\text{C}}$	ASTM C 1693	[pcf]	28.1-34.3	34.3-40.6
moisture absorption Δ_m , 23/80	ASTM C 1693	[%]	<15.0	<15.0
thermal conductivity $\lambda_{10, \text{tr}}$	ASTM C 177 ASTM C 518	[R-value per in] Dry	1.1	0.9
thermal conductivity λ	ASTM C 177 ASTM C 518	[R-value per in] considering moisture	0.9	0.8
compressive strength $\sigma_{10\%}$	ASTM C 1693	[PSI]	>290	>435
tensile strength σ_{mt}	ASTM C496 ASTM C1660	[PSI]	>94	>145
fire behaviour	ASTM E84 ASTM E136		non combustible	non combustible
Dimension stability	ASTM C 1693	[%]	<0.1	<0.1



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