

LithoPore® LPAC Interlocking Block



www.blauer-engel.de/uz132

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

Contact

Luca Industries International GmbH
Goerzallee 299
14167 Berlin
Germany

Tel: +49-30-457989-680
Email: info@luca-industries.com

Product description

LithoPore® - LPAC Interlocking Block is an aerated lightweight concrete interlocking block for masonry wall system. It is specifically designed to meet all requirement for building materials in developing / 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 $\Delta_{m, 23/80}$	DIN EN ISO 12571 [3]	[%]	<15.0	<15.0
thermal conductivity $\lambda_{10, tr}$	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]	>3	>4
tensile strength σ_{mt}	DIN EN 1607 [5]	[MPa]	>1	>1.3
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 $\Delta_{m, 23/80}$	ASTM C 1693	[%]	<15.0	<15.0
thermal conductivity $\lambda_{10, tr}$	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]	>435	>580
tensile strength σ_{mt}	ASTM C496 ASTM C1660	[PSI]	>145	>189
fire behaviour	ASTM E84 ASTM E136		non combustible	non combustible
Dimension stability	ASTM C 1693	[%]	<0.1	<0.1

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.