

LithoPore® LPAC Insulation Board



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

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Product description

LithoPore® - LPAC Insulation Board is an aerated lightweight concrete board for insulation purposes. It fulfills all requirements for a modern insulation material. Environmentally-friendly manufactured it is an ideal solution to substitute organic insulation materials such as expanded polystyrene (EPS) and polyurethane (PU) or inorganic ones such as mineral wool.

Highlights

- Fireproofed (totally inorganic)
- Fully recyclable (ordinary construction waste)
- High steam diffusion (no mold / mildew)



Specification

Metric			LithoPore100	LithoPore125
	Standard	entity	value	value
dry bulk density $\rho_{105\text{ °C}}$	DIN EN 1602 [2]	[kg/m ³]	95-105	110-125
moisture absorption $\Delta_{m, 23/80}$	DIN EN ISO 12571 [3]	[%]	<19.0	<19.0
thermal conductivity $\lambda_{10, tr}$	DIN EN 12667 [13]	[W/mK]	0.037	0.040
thermal conductivity λ	DIN EN 12667 [13]	[W/mK]	0.043	0.045
compressive strength $\sigma_{10\%}$	DIN EN 826 [4]	[KPa]	>250	>300
tensile strength σ_{mt}	DIN EN 1607 [5]	[KPa]	>80	>90
bending / flexural strength σ_b	DIN EN 12089 Methode B [6]	[KPa]	>80	>90
fire behaviour	DIN EN 13501		A1	A1
steam diffusion μ	DIN EN ISO 12572 [10]		<4.0	<4.0
Dimension stability	DIN EN 1604 [11]	[%]	<0.1	<0.1

Imperial			LithoPore100	LithoPore125
	standard	entity	value	value
dry bulk density $\rho_{105\text{ °C}}$	ASTM C 1693	[pcf]	5.9-6.6	6.9-7.8
moisture absorption $\Delta_{m, 23/80}$	ASTM C 1693	[%]	<19.0	<19.0
thermal conductivity $\lambda_{10, tr}$	ASTM C 177 ASTM C 518	[R-value per in] Dry	3.9	3.6
thermal conductivity λ	ASTM C 177 ASTM C 518	[R-value per in] considering moisture	3.4	3.2
compressive strength $\sigma_{10\%}$	ASTM C 1693	[PSI]	>36.3	>43.5
tensile strength σ_{mt}	ASTM C496 ASTM C1660	[PSI]	>11.6	>13.1
bending / flexural strength σ_b	ASTM C 1609	[PSI]	>11.6	>13.1
fire behaviour	ASTM E84 ASTM E136		non combustible	non combustible
Dimension stability	ASTM C 1693	[%]	<0.1	<0.1



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