

## LithoPore® LPAC Insulation Board



[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

LithoPore Europe GmbH  
Goerzallee 309  
14167 Berlin  
Germany

Email: [info@lithopore.com](mailto:info@lithopore.com)

## Product description

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**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

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- 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 <sup>3</sup> ]	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 $\lambda$	DIN EN 12667 [13]	[W/mK]	0.043	0.045
compressive strength $\sigma_{10\%}$	DIN EN 826 [4]	[KPa]	>250	>300
tensile strength $\sigma_{mt}$	DIN EN 1607 [5]	[KPa]	>80	>90
bending / flexural strength $\sigma_b$	DIN EN 12089 Methode B [6]	[KPa]	>80	>90
fire behaviour	DIN EN 13501		A1	A1
steam diffusion $\mu$	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 $\lambda$	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 $\sigma_{mt}$	ASTM C496 ASTM C1660	[PSI]	>11.6	>13.1
bending / flexural strength $\sigma_b$	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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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.

