

Liteblok™

Description

Liteblok™ is an aerated, lightweight, interlocking, mortarless building block. It is made from cellular lightweight concrete by a process that combines cement, sand, and water with foam produced by the action of compressed air on a non-toxic chemical foaming agent. Liteblok™ is space-fill; it is a form that encloses a structure. Liteblok™ is a patent protected product.

Densities

Liteblok™ 38 and 69 are two standard densities available. Liteblok™ 38 has a nominal density of 38 lb per cubic foot. Its relatively high R value makes it well suited to applications where thermal insulation is important. These applications include commercial buildings and residential home construction. Liteblok™ 69 has a nominal density of 69 lb per cubic foot. It is a harder and stronger block better suited to applications where abrasion resistance is important but thermal insulation is not a concern. Liteblok™ 69 is identical in appearance to Liteblok™ 38 but is almost twice as heavy. Applications include fences, retaining walls and raised beds.

Sizes

There are four block sizes currently available:

Standard: 5" tall, 5" deep and 10" wide with a pair of 2" diameter holes

Tall: 10" tall, 5" deep and 10" wide with a pair of 2" diameter holes

Jumbo: 10" tall, 5" deep and 20" wide with four 2" diameter holes

Grande: 8" tall, 8" deep, and 16" wide with a pair of 3" diameter holes

Configurations

Full size, half size, flat top, flat bottom, bond beam and lintel blocks available

Benefits

Liteblok™ is a Green building block with benefits that include the following:

- Low wall costs and fast installation requiring minimum skill
- Lack of toxins, VOCs contribute to excellent indoor air quality
- Mass wall with excellent thermal resistance resulting in low energy costs
- Low maintenance and operating costs as an inorganic wall resistant to fire, rot, termites, mold and mildew
- Sound absorbing material creating quieter spaces
- Potential LEED® credits include: IDc1 – Innovation in Design, EAcl – Optimize Energy Performance, EQc7 – Thermal Comfort Design, EQp1 – Minimum IAQ Performance, EQc3 – Construction IAQ Management, MRc5-Regional Material, EQc9 – Minimum Acoustical Performance

Construction Overview

Blocks are stacked in a brick-like interlocking fashion. Block holes are occasionally filled with rebar and grout to provide the wall structure. Bond beams at tops of walls and lintels over openings formed. Services run in open holes or by chasing wall. Roof, windows and doors tie to structure. Stucco, veneer, brick or siding can finish walls.



Physical Properties

	38 pcf	69 pcf
Compressive Strength (psi)	290	1015
Tensile Strength (psi)	73	254
Thermal Conductivity, K (BTU-in/ hr-ft ² -°F)	0.759	1.518
Heat Capacity, 8" thick (BTU/ft ² -°F)	6.3	11.0
Thermal Expansion (10 ⁻⁶ /°F)	5.0	5.0

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