



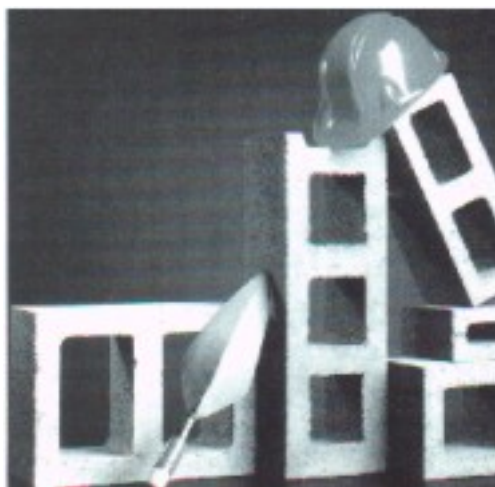
LIVLITE® - LIGHTWEIGHT AGGREGATE FOR CONCRETE MASONRY

LIVLITE expanded clay lightweight aggregate, manufactured by Big River Industries, Inc., is North America's premium lightweight aggregate for concrete masonry. Because it is the lightest rotary kiln produced aggregate, LIVLITE is used in the production of concrete block throughout the southeast, mid-west and east central United States. The key to LIVLITE's success is the raw material: a unique clay deposit, called Potter's Creek Clay, located near the LIVLITE plant in western Alabama. This clay, when processed using the rotary kiln method developed over 70 years ago by Stephen Hayde, produces a structural grade lightweight aggregate that is unequalled in unit weight, thermal performance and fire resistance.



Big River Industries, Inc. was founded in 1948, with a production facility in Erwinville, Louisiana capable of producing 150,000 cubic yards of expanded clay aggregate. Through expansion and acquisitions, it has grown to become the largest producer of expanded clay aggregates in the United States, with a total production capacity of 1.5 million cubic yards.

Big River's Livingston, Alabama plant, where LIVLITE is produced, was founded in 1968 as the Tombigbee Lightweight Aggregate Corporation, and acquired by Big River in 1984. At that time, the plant consisted of two kilns capable of producing over 450,000 cubic yards of aggregate per year. In 1990 the plant was expanded by the addition of a third kiln which more than double the plant's total capacity, to more than 1 million cubic yards.



LIVLITE expanded clay lightweight aggregate is produced to comply with the requirements of ASTM C 331, "Standard Specification for Lightweight Aggregates for Concrete Masonry Units". Its low unit weight permits the production of very low density concrete for concrete masonry units which incorporate low cost natural aggregates in combination with LIVLITE. The result is lightweight concrete masonry units with superior strength, texture, fire resistance, thermal performance and acoustical properties.

LIVLITE is the key ingredient in Q-LITE® concrete masonry units. Q-LITE is the new standard in concrete masonry performance. Q-LITE concrete masonry units are the lightest weight blended units available, combining the benefits of blending with the fire resistance and thermal performance available only with the lowest concrete densities.

LIVLITE PHYSICAL PROPERTIES	LIVLITE	SPECIFICATIONS (ASTM C 331)
Unit Weight, Dry Loose, lb/ft ³ ASTM C 331 Combined Coarse & Fine Aggregate, 3/8 in. to 0 Standard Fineness Modulus, 3.6 ASTM C 331 Fine Aggregate, No. 4 to 0 Standard Fineness Modulus, 3.1	40 to 42 40 to 42	65, max 70, max

Organic Impurities, ASTM C 40	Lighter than Standard	Standard or lighter
Staining Index, ASTM C 641	Very Light	Less than "heavy stain"
Loss on Ignition, ASTM C 114	< 1 %	5 %, max
Drying Shrinkage	< 0.1 %	0.1 %, max
Popouts, ASTM C 151	None	None



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LIVLITE expanded clay lightweight aggregate is made by Big River Industries, Inc. to conform to the requirements of ASTM C 331, "Standard Specification for Lightweight Aggregates for Concrete Masonry Units". LIVLITE is classified in the category "expanded shale, clay or slate", and therefore must comply with the most stringent requirements of the specification. LIVLITE® is a registered trademark of Big River Industries, Inc.