LEED® INSIGHTS

LIGHT WEIGHT CMU

Innovative Concrete Solutions For Inspired Spaces™

INTRODUCTION

Sustainability plays an active role in how commercial projects take shape. As a result, material selection now includes a closer look at how products may support LEED® goals. This overview outlines key attributes of our CMU products that may align with common LEED considerations—such as energy performance, recycled content, and regional sourcing. It helps project teams make informed, environmentally conscious decisions during the specification process.

ENERGY EFFICIENCY

R-values below are representative of a hollow cavity block. Integral insulation such as loose and foamed in place fill will increase the R-value, while a grout fill will decrease the R-value yet increase the thermal mass properties.

LIGHT WEIGHT

LW 4 X 8 X 16	1.9	LW 8 X 8 X 16	2.2	LW 12 X 8 X 16	2.3
LW 6 X 8 X 16	2.1	LW 10 X 8 X 16	2.3		

In addition to filling the cavity of a single wythe block, design teams can achieve higher R-values by building a layer of insulation between wythes of masonry, insulating the exterior of the building, or insulating the interior of the building.

CONTINUE TO NEXT PAGE

Austin Block + Hardscape®

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ausbh.com

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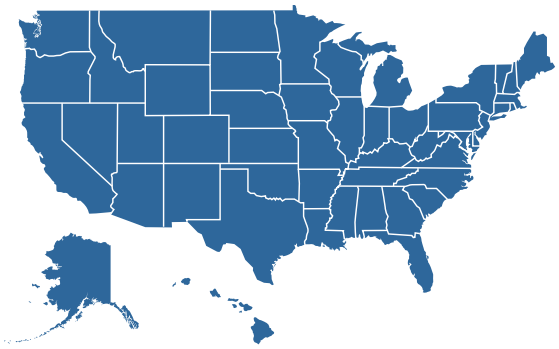
ENERGY EFFICIENCY *(continued)*

When selecting envelope system, it is important to consider masonry's inherent thermal storage capabilities, referred to as thermal mass. Well-designed buildings benefit by reducing indoor temperature fluctuations and therefore peak energy demand. During colder temperatures thermal mass absorbs heat by direct sunlight and releases heat during colder parts of the day. In warmer temperatures thermal mass serves the same function and releases heat during offpeak hours when HVAC equipment is more efficient. R-values and U-values do not account for advantages of thermal mass, yet ASHRAE 90.1 allows project teams to measure thermal mass properties when modeling energy performance with programs such as DOE-2.

REGIONAL MATERIALS



Austin Block + Hardscape - Georgetown, Texas 78633
Aggregate - Georgetown, Texas 78633
Cement - Buda, Texas 78610
Fly Ash - Eagle Pass, Texas 78852
Expanded Shale - Streetman, Texas 78852

WASTE MANAGEMENT

Product arrives palletized. Excess product can be returned and be donated to non-profit organizations or crushed for base fill.

Light Weight Mix Design | Recycled Content Percentage by Weight | Pre-Consumer 27%

MATERIAL	TOTAL WEIGHT (LBS)	PERCENTAGE TOTAL (DRY)	PERCENTAGE TOTAL (2% MC)	PERCENTAGE TOTAL (3% MC)
LW Aggregate	1,400	28.1	27.5	27.3
Manufactured Sand	3,024	60.7	59.5	58.9
Type 1L Cement	560	11.2	11	10.9
Water	N/A	0	2	3
TOTAL	4,984	100 %	100 %	100 %

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WHAT IS LEED®?

LEED® (Leadership in Energy and Environmental Design) is a program created by the U.S. Green Building Council (USGBC) to help guide environmentally responsible building practices. It offers a flexible framework that teams may use to design buildings that focus on energy use, materials, and occupant comfort. For commercial and multi-family residential projects, pursuing LEED certification may help meet certain sustainability goals or market expectations. While products like CMU are not LEED certified, they may support efforts to earn points in some LEED credit areas.

LEED® is a registered trademark of the U.S. Green Building Council (USGBC).