

# ARCHITECTURAL MASONRY UNITS

## ENVIRONMENTAL PROFILE

Building Solutions by  
JEWELL CONCRETE



**Oldcastle®**

### PRODUCT SPECIALIST

**Bobby Ray**

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### RECYCLED CONTENT % BY WEIGHT



When placing order please indicate the desired mix design

Mix Design	Pre-Consumer	Post-Consumer
<b>Standard</b>	2.2%	0%
<b>Greenline</b>	66%	0%

### ENERGY EFFICIENCY - R-VALUES/THERMAL MASS



The R-values below are representative of a hollow cavity. Intergal 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	Medium Weight
4" X 8" X 16"	1.9	1.7
6" X 8" X 16"	2.1	1.8
8" X 8" X 16"	2.2	2.0
10" X 8" X 16"	2.3	2.0
12" X 8" X 16"	2.3	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 exterior of the building, or insulating the interior of the building.

When selecting envelope systems it is important to take into account 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 off-peak 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



#### Manufacturing

● Waco, TX 76712

#### Extraction

Aggregate

● Georgetown, TX 78627

Sand

● Waco, TX 76706

Cement

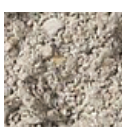
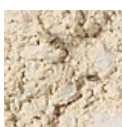
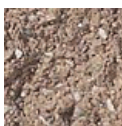
● New Braunfels, TX 78132

Pigment

● Beltsville, MD 20705

Fly Ash

● DeWitt, TX 75846



### WASTE MANAGEMENT

Product arrives palletized with banding. Excess product can be returned to manufacturer and will be donated to Habitat for Humanity or crushed for base fill.

