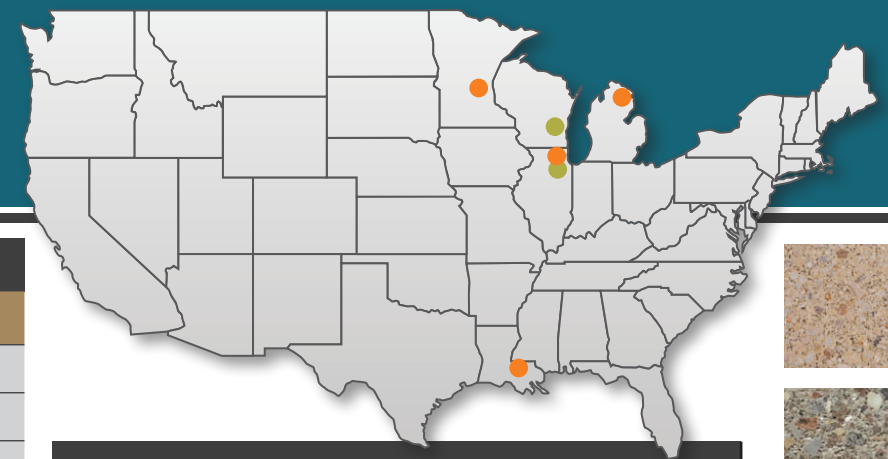


# SMOOTH MASONRY UNITS

## ENVIRONMENTAL PROFILE



**PRODUCT SPECIALIST**  
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### RECYCLED CONTENT % BY WEIGHT



Mix Design	Pre-Consumer	Post-Consumer
Light Weight Gray	27.2%	0%
Medium Weight Gray	1.8%	0%
<b>Greenline</b> Medium Weight	28.9%	20%
Verastone® CMU	42.7%	0%
Integrally Colored	1.7%	0%
<b>Greenline</b> Integrally Colored	1.7%	20%

When placing order please indicate the desired mix design

### WASTE MANAGEMENT

Product arrives palletized with plastic banding. When available, banding producer uses recycled materials.



### REGIONAL MATERIALS



Manufacturing (Use Closest Site)	Extraction Light Weight 60% Regional to Chicago Area	Extraction Medium Weight* 100% Regional to Chicago Area	Extraction Integrally Colored* 100% Regional to Chicago Area	Extraction Verastone 100% Regional to Chicago Area
● Morris, IL 60450	Cement	Cement	Cement	Cement
● Mundelein, IL 60060	● Alpena, MI 49707	● Alpena, MI 49707	● Alpena, MI 49707	● La Salle, Peru, IL 61354
● Romeoville, IL 60446	Fly Ash	Fly Ash	Fly Ash	Fly Ash
● West Bend, WI 53090	● Becker, MN 55308	● Becker, MN 55308	● Becker, MN 55308	● Becker, MN 55308
	Aggregate	Aggregate	Aggregate	Aggregate
	● McCook, IL 60525	● McCook, IL 60525	● McCook, IL 60525	● Gary, IN 46401
	● Erwinville, LA 70729		● Antioch, IL 60002	

\*When the **Greenline** option is ordered, add Chicago IL, 60101 to the Extraction Points

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

The R-values below are representative of a hollow cavity. Other fills such as vermiculite, perlite and spray in foam will increase the R-value, while a grout fill will decrease the R-value yet increase the thermal mass properties.

	Light Weight	Medium Weight	Normal Weight	Greenline
4" X 8" X 16"	1.9	1.7	1.6	1.6
6" X 8" X 16"	2.1	1.8	1.7	1.7
8" X 8" X 16"	2.2	2.0	1.9	1.9
10" X 8" X 16"	2.3	2.0	1.9	1.9
12" X 8" X 16"	2.3	2.3	2.2	2.2

### Thermal Mass

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 later releases heat during colder parts of the day. During warmer temperatures thermal mass serves the opposite function by absorbing heat during the warmer parts of the day and releasing it 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.

### INDOOR ENVIRONMENTS - ACOUSTICS

Offered for all product lines Acousta Wal® will improve the acoustical performance of your spaces. Acousta Wal® is available in four shapes to suit any project.

- Type IV - Absorbs a broad range of sound frequencies and is ideal for gyms and performing arts centers
- Type IVRF - Type IV with reinforcement capabilities
- Type I - Absorbs low sound frequencies and is ideal for industrial facilities, such as power plants
- Type IRF - Type I with reinforcement capabilities

Size and Type	NRC	STC
4" Type I	0.50	49
6" Type I	0.50	52
8" Type IRF	0.50	56
10" Type IRF	0.50	N/a
12" Type IRF	0.50	62
4" Type IV	0.80	49
6" Type IV	0.85	52
8" Type IVRF	0.80	56
10" Type IVRF	0.80	N/a
12" Type IVRF	0.85	62

\* Please visit our website for detailed information about energy efficiency, acoustics and more. Click on the NCMA Tek-Notes, found on the left hand side.