



AERO **G15**

Foamed Glass Aggregate

BUILDING APPLICATION:
INSULATION
SUB-SLAB | FOUNDATION





SUB-SLAB INSULATION & CAPILLARY BREAK

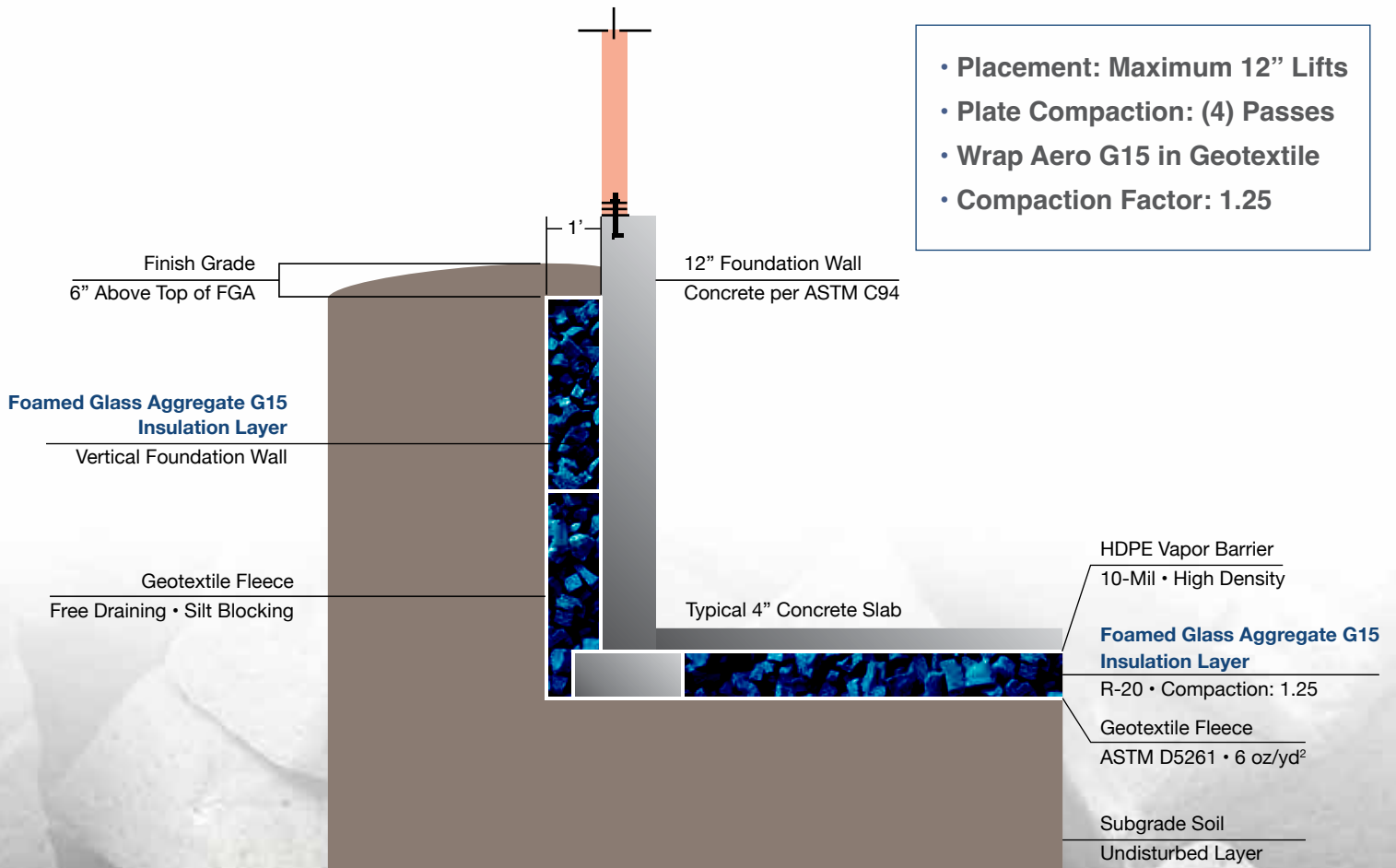


INSULATION MADE FROM RECYCLED GLASS



RESIDENTIAL BUILDINGS: AERO G15 DELIVERS IN 3.4-YD³ SUPERSACKS

Sample Architectural Detail



R-VALUE/THICKNESS CHART

R-Value (dry condition)	Compacted Thickness	Loose Bulk Thickness
R-15	9"	11"
R-20	12"	15"
R-25	15"	18.5"
R-30	18"	22.5"

G15 Characteristics

**ULTRA-LIGHTWEIGHT
12-15 PCF DRY UNIT WEIGHT**
85% lighter than standard aggregate.

QUICK AND EASY TO INSTALL
G15 is user-friendly and easy to store, handle, and place onsite.

COMPRESSIVE STRENGTH
Strong particle strength and high frictional resistance result in high compressive strength in a compacted layer of G15.

NON FLAMMABLE
G15 is a noncombustible material.

FROST-PROOF AND INERT
G15 is made from soda-lime glass and contains unconnected void space that plays a part in frost (freeze-thaw) resistance.

THERMAL INSULATION MATERIAL
G15 is inorganic cellular insulation. Each particle contains air pockets which delivers thermal insulation properties.

FREE DRAINING PROPERTIES
Compacted G15 has an approximate 38% internal void space between the particles thus providing a capillary break.

BENEFITS

- ASTM-E84 Class "A" (High Heat Resistance)
 - Lightweight & Easy to Install
- Naturally Resistant to Mold, Pests, and Rot
 - Sound & Vibration Absorbent
- Replaces Natural Stone as a Capillary Break

SUSTAINABLE

- Replaces XPS or EPS Foam Insulation
- Earn LEED Points (MR Credits - Recycled Content)
 - High Recycled Content
- Replaces Natural Resources (Mined Aggregates)
- Reduces the Number of Delivery Trucks Required

TECHNICAL DATA



Density (Unit Weight)

Uncompacted dry bulk density (ASTM C29/C29M/ AASHTO T 19)¹ 12-15 pcf

Thermal Conductivity (ASTM D5334)

R-value Dry 1.68 / in

R-value Drained 1.19 / in

Average Particle Size

~1.5"

Physical Characteristics

Hydraulic Conductivity (ASTM D 2434-68) 3.0 cm/sec (typical)

Moisture Content

Volumetric (%) 0-10 (6% typical)

Gravimetric (%) [ASTM C566/ AASHTO T 255]¹ 0-60 (25% typical)

Particle Specific Gravity (AASHTO T 85) 0.4 (typical)

Porosity

Uncompacted 0.5

1.25 Compression Ratio 0.38

Stability

Angle of internal friction – loose 45°

Angle of internal friction – up to 1200 psf (ASTM D3080¹) 55°

Angle of internal friction – up to 3000 psf (ASTM D3080¹) 41°

Electrical Resistance

Lab (AASHTO T 288) 15,600 ohm-cm

Chemical Characteristics

TCLP (SW-846) Non-leaching

Recommended Maximum Bearing Stress for Design

~2,500 psf

¹Modified test method due to particle size/density

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INORGANIC CELLULAR INSULATION



RESIDENTIAL • COMMERCIAL • INDUSTRIAL

installation guide



material & applications



safety data



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