Spec-Thermal®
PRE-INSULATED MASONRY SYSTEM

Thermal Performance
Masonry Beauty Inside and Out

Meets Stringent Energy Code requirements

Robust fully grouted construction for superior durability, safety and resilience

Saves Time and Expense due to Efficiency of Single Wythe Construction

Beautiful and Durable Masonry Finish Inside and Out

Available in Full and Half High Versions for Classic Masonry Beauty
Korfil® HI-R-H Pre-Insulated Masonry Systems

HI-R-H and HI-R-H Half High are pre-insulated fully grouted masonry wall systems that offer superior thermal performance. Throw out your expectation that masonry cannot meet stringent Code requirements; these products are game changers.

Applications

• Double exposed single wythe masonry walls with durable architectural finishes for conditioned spaces in all Climate Zones.
• Single wythe walls for conditioned spaces in all Climate Zones with furring/wallboard and/or interior or exterior insulation.
• Load-bearing walls above and/or below grade.

Thermal Performance

• Two part offset interlocking 3.5” or 4” insulation insert with lapped joints.
• The HI-R-H wall systems minimize thermal bridging and use thick, interlocking Korfil® insulation inserts and interior exposed thermal mass to provide excellent energy conservation.
• Superior thermal performance to HI-R products.

Fully Grouted Wall System

• Barrier wall performance resists moisture penetration and condensation issues with use of integral water repellent in block and mortar and post-applied sealant.
• **Four hour** fire rating is typical. Check with manufacturer for details.
• No additional air barrier or vapor retarder is required with fully grouted masonry walls (assumes use of integral water repellent in unit and mortar)
• Great choice for structures designed to be resilient against natural hazards.
• Great choice for demanding applications requiring extensive reinforcement.

Construction Efficiency and Value

• Shape eases placement even with tight reinforcement spacing.
• No modification to stretcher unit required for bond beam construction.
• Utilities (plumbing and electrical) readily fit in unit cores and horizontal voids.
• Single trade installs interior and exterior finishes, structure and insulation in one step.
• Unit Width: 12” (10” in some regions only – please check with your representative).
Thermal Properties

HI-R-H is a single web pre-insulated masonry unit suitable for fully grouted walls. Typically, it is the most cost-effective pre-insulated option.

Features:
- Unit Dimensions: 12x8x16 nominal (10x8x16 available in some markets)
- Insulation Options: 3.5" or 4" Insulation Inserts are available - 3.5" for greater cost efficiency, 4" (for 12x8x16 only) where needed for greater performance
- Offered with full range of masonry textures and colors
- When made with Spec-Brik Colors the product is called Spec-Brik

Jumbo HI-R-H

<table>
<thead>
<tr>
<th>Density (pcf)</th>
<th>95</th>
<th>105</th>
<th>115</th>
<th>125</th>
<th>135</th>
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</thead>
<tbody>
<tr>
<td><strong>R\text{_} Value</strong></td>
<td>16.32</td>
<td>14.98</td>
<td>13.74</td>
<td>12.50</td>
<td>11.25</td>
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<td><strong>U Factor</strong></td>
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<td>0.067</td>
<td>0.073</td>
<td>0.080</td>
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<tr>
<td><strong>Heat Capacity</strong></td>
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<td>20.80</td>
<td>21.50</td>
<td>22.10</td>
<td>22.80</td>
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<tr>
<td><strong>Equivalent Thickness</strong></td>
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<td>9.60</td>
<td>9.60</td>
<td>9.60</td>
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</table>

Check with your local manufacturer to confirm the density of concrete block they offer. Since this depends on locally available materials, density offerings will vary by location.

HI-R-H HALF HIGH is a single web pre-insulated masonry unit suitable for fully grouted walls that has a 4" x 16" face dimension.

Features:
- Available unit dimensions: 12"x4"x16" nominal
- Great for pre-insulated walls where brick aesthetics are desired.
- When made with SPEC-BRIK Colors, the product is called SPEC-BRIK HI-R-H.

<table>
<thead>
<tr>
<th>Density (pcf)</th>
<th>95</th>
<th>105</th>
<th>115</th>
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<tr>
<td><strong>R\text{_} Value</strong></td>
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<td>0.062</td>
<td>0.068</td>
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<tr>
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<tr>
<td><strong>Equivalent Thickness</strong></td>
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<td>8.06</td>
<td>8.06</td>
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12x4x16 HI-R-H HALF HIGH/SPEC-BRIK HI-R-H

<table>
<thead>
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<th>Density (pcf)</th>
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<th>115</th>
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<td><strong>R\text{_} Value</strong></td>
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<td>0.073</td>
<td>0.081</td>
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<td><strong>Heat Capacity</strong></td>
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<td>7.88</td>
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Solutions Available Nationwide

The Concrete Products Group (CPG) consists of regional market leaders in the concrete products industry. CPG is organized to provide consistent, top-quality products to regional and national customers. CPG provides industry leading support and service throughout the nation.

We provide a comprehensive set of design resources to support designers, including a library of CAD Details, a Thermal properties guide, design and construction notes and videos and color selection and rendering tools that are available via a Revit® plug-in.

Please contact us if we can assist with your next project.

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