

Featuring Korfil Hi-R H

New Design with Reduced Thermal Bridging for Enhanced Thermal Resistance

Capable of meeting IECC (2009) R-Value Thresholds in all Climate Zones

Permits full grout and reinforcement of wall without removing insulation

Provides Moisture Protection of a Barrier Wall

Work by other trades is performed with little danger of damage to insulation

Shape permits efficient installation even with placement over reinforcement for fully grouted walls.







www.concreteproductsgroup.com

High Performance Insulated Masonry Walls

The *Hi-R H Wall System* is a specially designed concrete masonry unit and individually molded insulation insert that provide industry best thermal performance in compliance with prevailing Codes and Standards. The *Hi-R H* Masonry Unit has been designed to provide reduced thermal bridging even more than prior Hi-R designs. The block and the insulation are combined at the block manufacturing plant prior to delivery to the job site. The assembly provides a wall system capable of achieving higher thermal R-values than conventional masonry, while providing full Code-based load resistance.

Insulation Inserts

Hi-R H Inserts are made by Concrete Block Insulating Systems, Inc. from flame-retardant treated expandable polystyrene. Like all foamed plastics, good fire procedures must be followed during storage and installation. Inserts give off no toxic products of combustion, except carbon monoxide and carbon dioxide, concentrations of which are far less than those given off by equal volumes of more dense building construction products. Expandable polystyrene contains no fluorocarbons and no formaldehyde.

Masonry Units

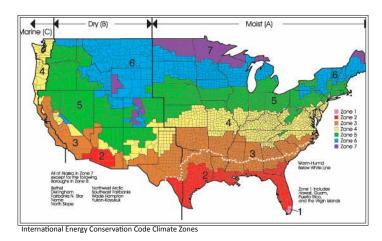
Hi-R H Masonry Units from the Concrete Products Group, LLC are available in precision faced and architectural decorative faced units. Unit sizes are available in 10 and 12 inch widths with nominal 8 inch x 16 inch face dimensions. Check for availability in your region.

Applicable Standards

ASTM C 578, Type X, replacing Federal Specifications HH-I-524C. Specification for Rigid Cellular Polystyrene Thermal Insulation.

ASTM C 90 Standard Specification for Load-bearing Concrete Masonry Units.

Please visit
www.concreteproductsgroup.com
for design and construction
resources including CAD details,
design and construction videos
and technical notes.



The Hi-R H Wall System allows the construction of single wythe masonry walls that meet the stringent R-Value requirements of the 2009 IECC in all climate zones

MAXIMUM U-FACTORS FOR MASS WALLS PRESCRIPTIVE REQUIREMENTS (2009 IECC)						
	All Other	Group R				
Zone 1	U-0.58	U-0.151ª				
Zone 2	U-0.151ª	U-0.123				
Zone 3	U-0.123	U-0.104				
Zone 4 (except Marine)	U-0.104	U-0.090				
Zone 5 (& Marine 4)	U-0.090	U-0.080				
Zone 6	U-0.080	U-0.071				
Zone 7	U-0.071	U-0.071				
Zone 8	U-0.071	U-0.052				

IECC (2009): Section 502.1 General (Prescriptive) Requirements and Table 502.1.2 BUILDING ENVELOPE REQUIREMENTS OPAQUE ELEMENT, MAXIMUM U-FACTORS. a Certain exceptions apply.



The Two-Piece CBIS Korfil Hi-R H inserts form a lap joint with adjacent inserts, both above and below and from side to side, for maximum insulation efficiency.

THERMAL PROPERTIES:

The Values below are for Pre-insulated Hi-R H Masonry Units.¹ The Thermal Properties tables show the thermal resistance (R_t), including inside and outside air surface resistances of 0.68 and 0.17 hr-ft2-°F/BTU, respectively, and the U-values for the various densities of concrete masonry units indicated. U Values are based on conventional 3/8" Mortar Joint Construction. U-Value units are Btu/hr/sqft/Deg.F. The results below are calculated based on the results of a third party thermal analysis that was completed making use of the Hot Box Test Data from three accredited laboratory services. A complete Engineering Report dated November 20, 1996, including Addendum Added Nov. 1, 2002, is available upon request. It covers the thermal values of the Hi-R Masonry Wall System.

12" Wide Hi-R H Wall System							
Density of Block Ibs/ft ³	Wall Type 1*		Wall Type 2**		Wall Type 3***		
	R _t	U	R _t	U	R _t	U	
80	18.417	0.054	19.82	0.050	21.247	0.047	
95	16.337	0.061	17.74	0.056	19.167	0.052	
100	15.647	0.064	17.05	0.059	18.477	0.054	
110	14.297	0.070	15.70	0.064	17.127	0.058	
120	12.987	0.077	14.39	0.070	15.817	0.063	
125	12.347	0.081	13.75	0.073	15.177	0.066	
135	11.137	0.090	12.54	0.080	13.967	0.072	

- * Wall Type 1: Hi-R H Wall System only; Hi R H Units with fully grouted cells (125 lb./ft³ density grout).
- ** Wall Type 2: Hi-R H Wall System, Hi R H Units with fully grouted cells (125 lb./ft³ density grout); 1/2 inch gypsum board on furring strips.
- *** Wall Type 3: Hi-R H Wall System, Hi R H Units with fully grouted cells (125 lb./ft³ density grout); 1/2 inch foil-backed gypsum board on furring strips.

10" Wide Hi-R H may also be available in some markets.

Please check with your Concrete Products Group representative for local availablity.



Hi-R H units are suitable for construction of bond beams without the need for any modifications to the units and the insulation inserts remain fully in place



Insulated corners are built using conventional masonry fittings and Hi-R H units



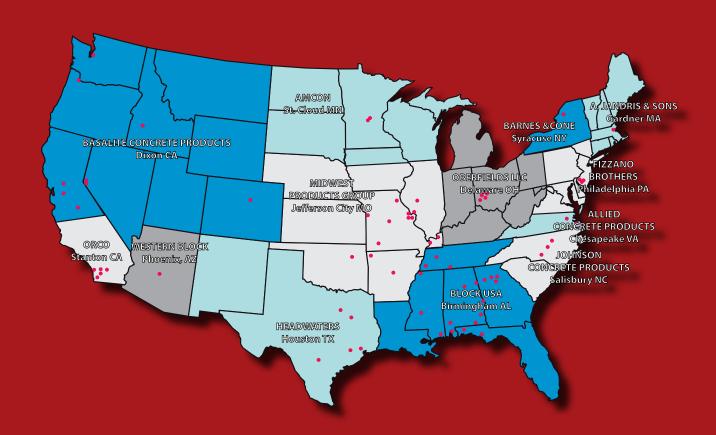
Nationwide Availability

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

800-789-0872

A. JANDRIS & SONS 202 High St. Gardner, MA 01440 ALLIED CONCRETE PRODUCTS LLC 3900 Shannon St. Chesapeake, VA 23323-1054 AMCON BLOCK P.O. Box 546 2211 Hwy 10 South St. Cloud, MN 56302-0546 BARNES & CONE P.O. Box 280 5894 Court St. Rd. Syracuse, NY 13206-0280 BASALITE CONCRETE PRODUCTS LLC 605 Industrial Way Dixon, CA 95620 BLOCK USA P.O. Box 100813 2570 Ruffner Rd. Birmingham, AL 35210

FIZZANO BROTHERS CONCRETE PRODUCTS, INC. 1776 Chester Pike Crum Lynne, PA 19022-1299 HEADWATERS CONSTRUCTION MATERIALS 7620 Washington Ave. Houston, TX 77007 JOHNSON CONCRETE COMPANY 217 Klumac Road Salisbury, NC 28144 MIDWEST PRODUCTS GROUP 12901 St. Charles Rock Rd. Bridgeton, MO 63044-2485 OBERFIELDS, LLC P.O. Box 362 528 London Rd. Delaware, OH 43015 ORCO BLOCK CO., INC. 11100 Beach Blvd. Stanton, CA 90680-0129 WESTERN BLOCK COMPANY 4021 19th Ave. S. Phoenix, AZ 85041



Manufacturing Locations



