

## Building Ends, Jambs or Movement Joints - Korfil Hi-R H Walls



**K**orfil Hi-R H from the Concrete Products Group is a versatile high performance system that allows fast construction of energy efficient walls. The finished wall combines the durability of double exposed masonry with integral insulation. In this note, we are going to discuss how to build insulated jambs, ends or joints that meet structural requirements while maintaining superior thermal performance.

### Superior R-Value

Hi-R H offers superior thermal performance. Conventional masonry typically is in the range of R-2 depending on the density of the concrete. With Hi-R H, we can attain R-Values in excess of up to R-18 or better if lightweight concrete is used.

Hi-R H performs so well for two reasons, First, the units are designed to minimize thermal bridging by limiting the cross sectional area of the block webs by using a single reduced height cross web. Korfil Hi-R H is compliant with the latest version of the standard relating to concrete masonry units, ASTM C90. Second, the units are pre-insulated with a thick insulating inserts that are designed to overlap when placed in a wall with other inserts so that they form lap joints with the inserts in adjacent blocks above, below and to each side.

When the wall reaches a vertical end, such as at a movement joint or a jamb located at a door, window or other opening, we need to use masonry units that will have a closed end. Korfil Hi-R H readily combines with these common concrete masonry fittings to provide a complete wall system.

### QUICK POINTS

- Hi-R H provides dramatically improved thermal properties for maximum energy efficiency.
- Hi-R H combines easily with standard masonry fittings to build ends, joints or jambs. These fittings can be insulated with insulation inserts for energy efficiency.



## Combining Hi-R H with Sash or End Units

To build a joint or wall end, such as a jamb, Hi-R H units are laid approaching the location of the joint or wall end in a running bond pattern and either a half length or full length closed end unit is then laid to form the end of the wall. The half and full units are alternated as succeeding courses are placed.

Integral insulation inserts should be placed in the jamb or joint units locations in order to maintain the thermal properties of the wall system.

## Conclusion

**Hi-R H combines very readily with common masonry fittings to provide a comprehensive solution that provides beauty, durability and superior thermal performance due to the benefits of thermal mass and integral insulation.**

*Hi-R is a registered trademark of Concrete Block Insulating Systems, Inc.*



### Questions?

*For more information, visit [concreteproductsgroup.com](http://concreteproductsgroup.com) or email your questions to [info@concreteproductsgroup.com](mailto:info@concreteproductsgroup.com)*