



ARCHITECTURAL  
RECORD  
**Record  
Products  
2014**  
WINNER



## HCI™ SYSTEM RAINSCREEN ATTACHMENT:

Horizontal Continuous Insulation Should Be  
Simple to Design + Easy to Install

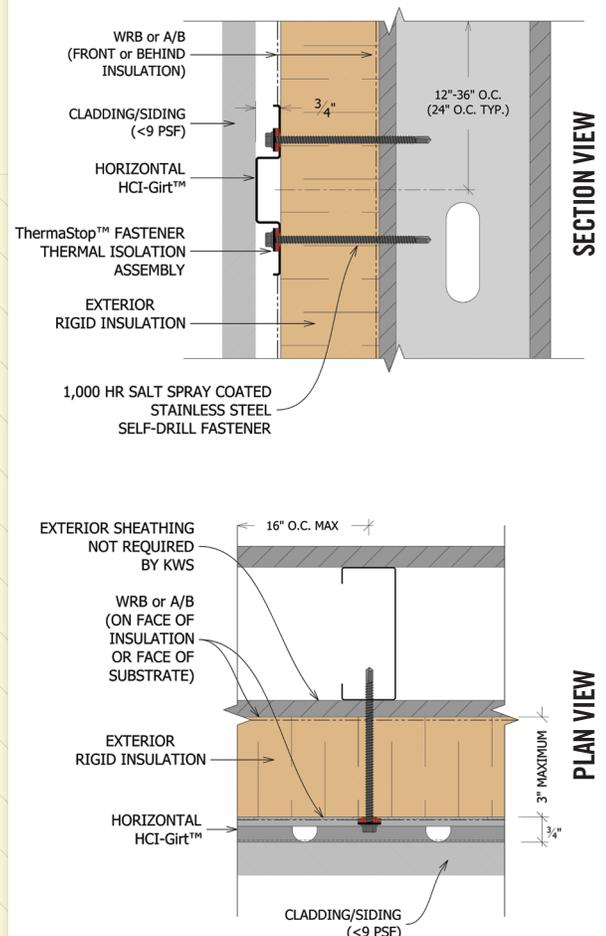
Knight's award-winning HCI™ System provides outstanding thermal performance by way of true ci (continuous insulation). As a compliment to the original CI™ System, the HCI System enables vertical cladding (and secondary rails) to be installed directly to the HCI-Girt™. This offers easy installation, broad design flexibility, and cost savings, all while still easily meeting North American energy code requirements.

The HCI System uses unique  $\frac{3}{4}$ " deep horizontal girts- called HCI-Girts –designed to properly disburse the façade loads over exterior rigid board insulation - with only unique thermally isolated fasteners penetrating the thermal barrier thus minimizing thermal bridging. For basic, cost-effective vertical claddings, only a single layer of HCI-Girts may be needed. For more complex cladding designs or types, choose from a wide variety of Knight Wall secondary rails for those panels requiring specific attachment points.

HCI Systems components are produced in standard and custom lengths, in either 16 or 18 gauge Zn-Al-Mg coated steel (standard silver or black PVDF coated) and also available in stainless steel.

The HCI System attachment completes the rainscreen envelope design, whether choosing metal panels, Aluminum Composite Material (ACM) panels, fiber cement, GFRC, or many more. And choose any brand of insulation that meets minimum compressive strength and code requirements, simplifying design specifications, including Rockwool COMFORTBOARD 110.

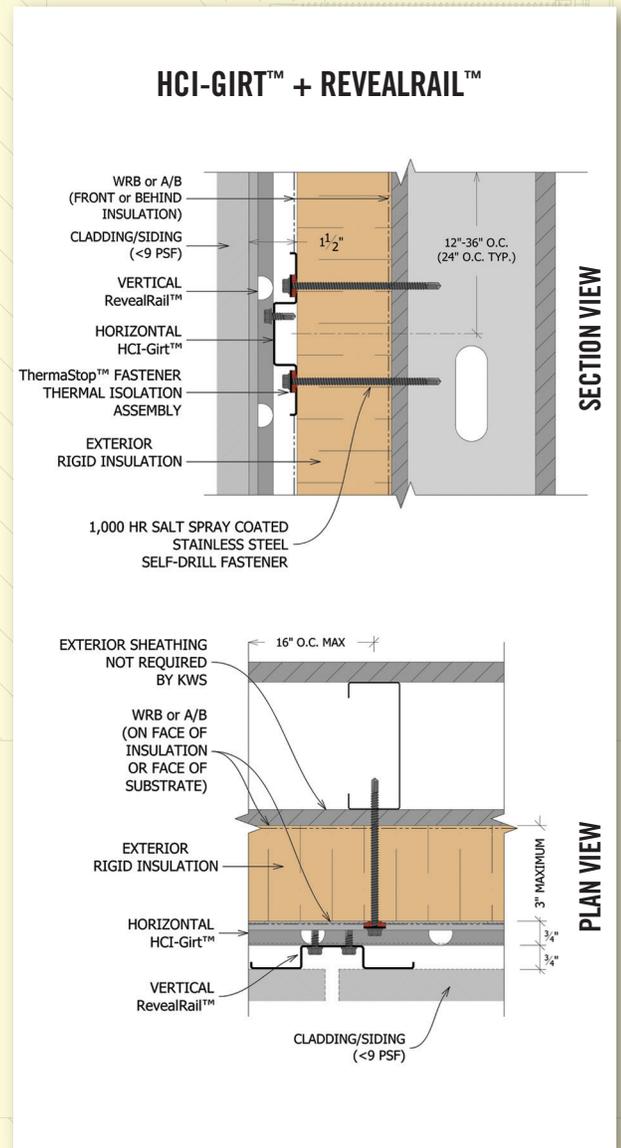
### HORIZONTAL HCI-GIRT™ ONLY



## ADVANTAGES TO THE KNIGHT HCI™ SYSTEM RAINSCREEN

- Horizontal HCI-Girts can be spaced from 12" up to 48" O.C.\*
- Support cladding weighing up to 20 PSF\*, covering many popular cladding types
- Real labor savings – no notching or cutting of exterior rigid board insulation like with Z girts, brackets or clips
- Thermally isolated fasteners with specially designed ThermaStop™ washers come preassembled
- Highly corrosive-resistant Zn-Al-Mg ZM40 (ASTM A1046) coated steel provides a long service life vs. typical G90 Galvanized steel
- Black PVDF finish or stainless steel options available, competitively priced
- Easily installed over any type of substrate – steel studs, wood studs, CMU, concrete, even brick
- Engineering calculations provide design load compliance for each specific project
- Attach nearly any type of cladding – supplied by any manufacturer – with easy and efficient detailing and installation
- Use any manufacturers insulation meeting minimum strength and other code requirements (including Rockwool COMFORTBOARD 110)
- Cladding can be attached directly to the horizontal HCI-Girt or used with optional vertical rails (such as PanelRails or RevealRails)
- Excellent ventilation with a ¾-inch minimum continuous rainscreen cavity
- Pre-engineered and 3rd party tested for proven performance and durability
- Competitive, budget conscious assembly that meets ASHRAE 90.1 standard
- Complete, drop-in rainscreen attachment system – girts, thermally isolated fasteners, rails and engineering – one source liability for the whole system
- Limited labor and material warranty

\*Maximum allowable spacing and dead load (weight of cladding) is based on the total load (dead + live) acting on the assembly and connections. Wall anchors must be specified and supplied by KWS for a written limited warranty. Knight will specify the exact anchor type, embedment depth and spacing for anchors in project specific engineering packages. ThermaStop thermal isolation washers must be used on all types of wall anchors with the HCI or CI System, no matter the substrate. Contact KWS for more information.



### KNIGHT WALL CAN CONTRIBUTE TO THE FOLLOWING USGBC LEED CREDITS:

- Energy & Atmosphere (EA) Prerequisite and Credit 1
- Materials & Resources (MR) Credits 4 and 5



**ALL KNIGHT WALL SYSTEMS COMPONENTS ARE MANUFACTURED IN THE USA.**

NO EXPRESS WARRANTIES ARE GIVEN EXCEPT FOR ANY APPLICABLE WRITTEN WARRANTIES SPECIFICALLY PROVIDED BY KNIGHT WALL SYSTEMS. ALL IMPLIED WARRANTIES INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED. No freedom from any patent owned by Knight Wall Systems or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use.

HCI, HCI-Girt, ThermaStop, PanelRail and RevealRail are trademarks of Knight Wall Systems, Inc. Patent 8,429,866 B2 and others pending.

# KNIGHT WALL SYSTEMS

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