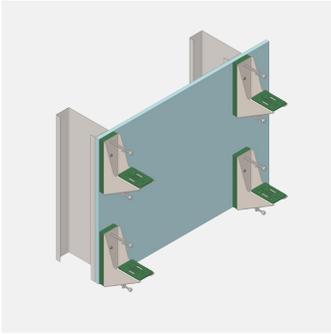


Adjustable	Easy to Install	ASHRAE Compliant
Low Cost	Non-combustible	Thermally Broken

Available in horizontal and vertical fastening systems

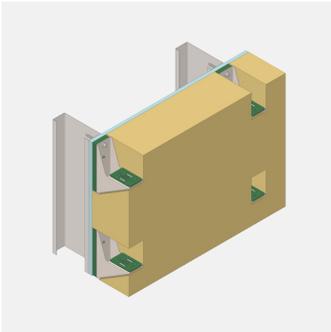
iCLAD Substructure System

The iCLAD substructure system is designed to provide a thermally broken system that provides the maximum efficiency available in rainscreen wall system at a cost that is less than the competitors.



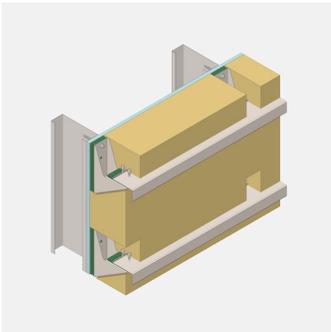
Step 1: Fasten Clips

Locate Thermal Bracket location and fasten to substrate - ensure clips are fastened to structural steel studs or concrete block. Vertical and horizontal spacing are as per the engineer's recommendation. The Thermal Brackets should be exterior to the sheathing and vapour barrier.



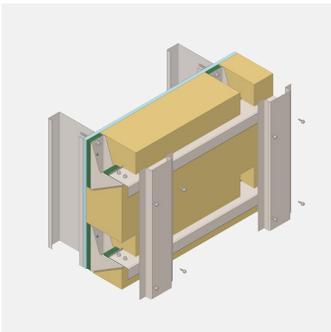
Step 2: Insert Insulation

Insert insulation into the cavity and tack into place.



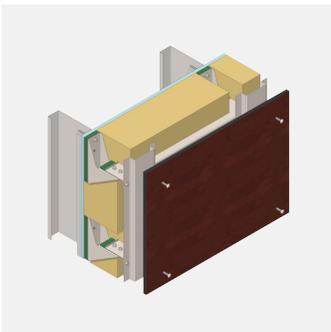
Step 3: Fasten Girts

Fasten girts to the thermal bracket using the pre-drilled holes provided - adjust girts in the IN-OUT dimension to account for changes in wall depth caused by errors in framing and forming.



Step 4: Attach Hat Channels

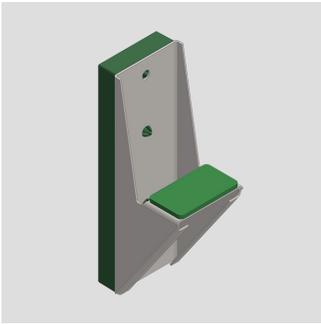
Secure hat channels to girts using spacing recommended by the engineer.



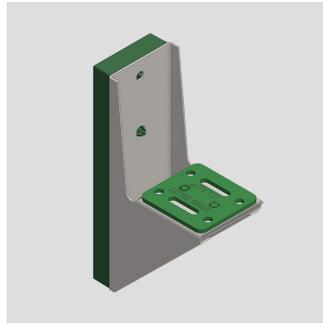
Step 5: Install Cladding

Fasten architectural cladding to existing hat channels according to spacing recommended by the engineer.

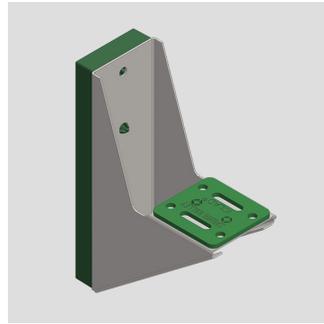
Sizing



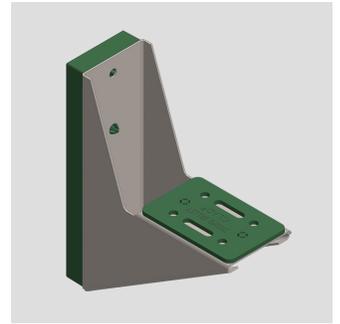
H75 3 in. depth



H100 4 in. depth



H125 5 in. depth



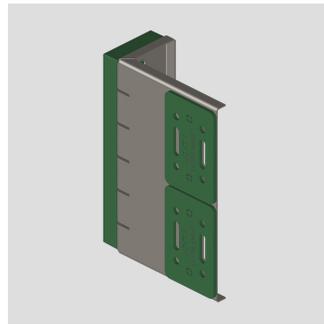
H150 6 in. depth



V75 3 in. depth



V100 4 in. depth

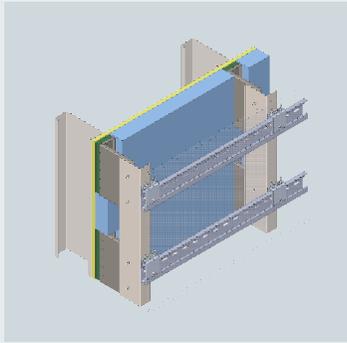


V125 5 in. depth

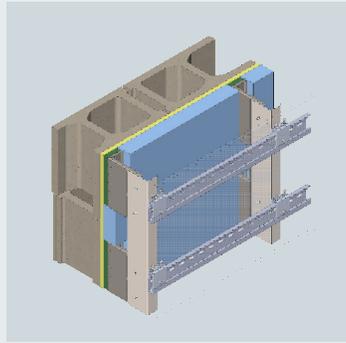


V150 6 in. depth

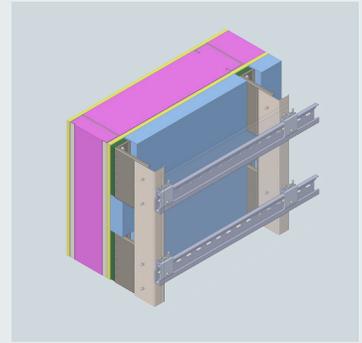
Thermal Performance



**iCLAD Bracket w/ Steel Stud
Construction**



**iCLAD Bracket w/ Hollow
Concrete Block Wall**



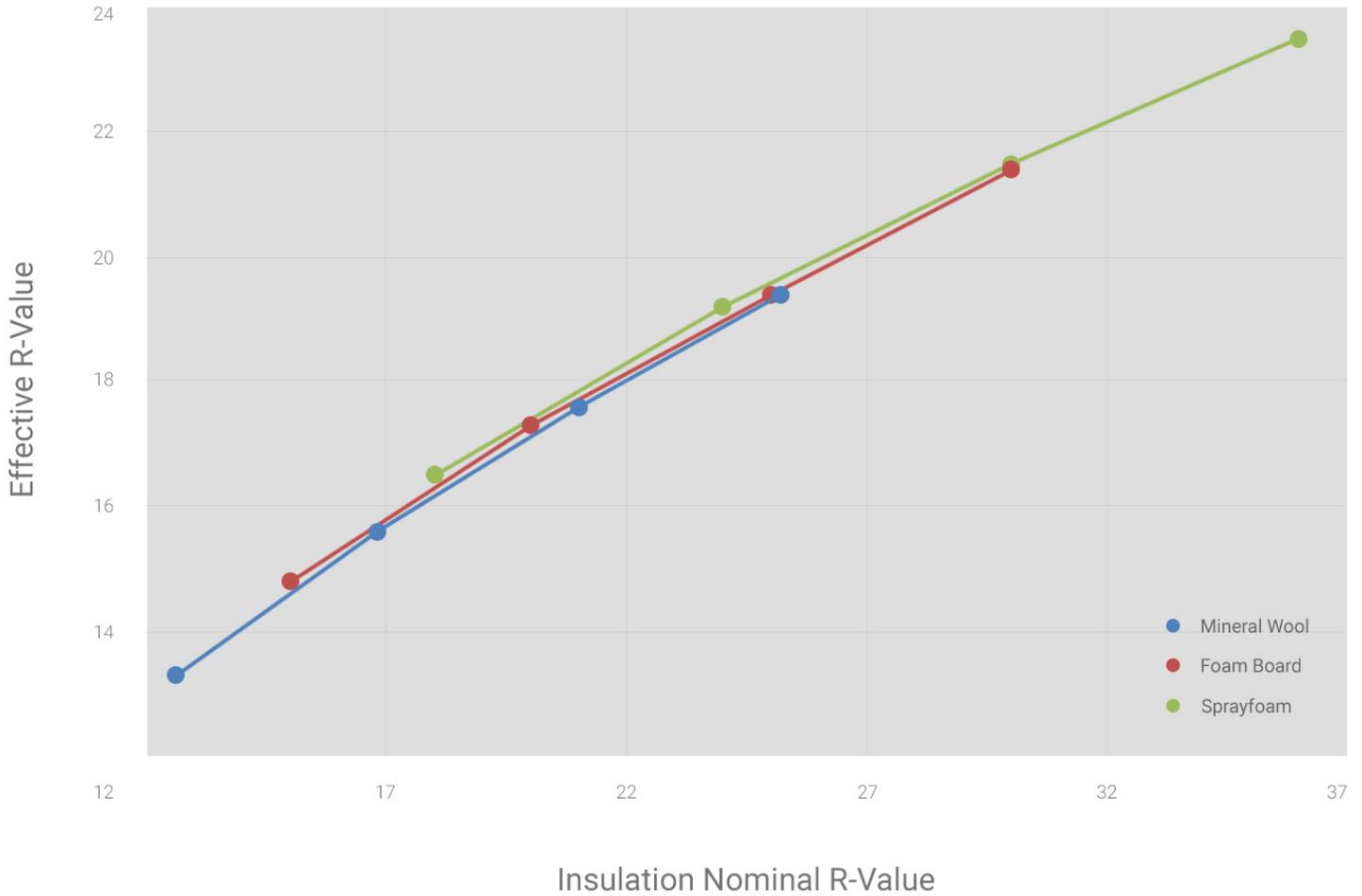
**iCLAD Bracket w/ R-12 Interior
Insulated Steel Stud Wall**

Insulation depth	Assembly Effective R-Value hr ² Fft ² /BTU (m ² K/W)		
3 inches	R-14.0 (2.47)	R-14.3 (2.51)	R-20.0 (3.52)
4 inches	R-16.8 (2.96)	R-17.0 (2.99)	R-22.7 (4.00)
5 inches	R-19.4 (3.41)	R-19.4 (3.42)	R-25.2 (4.44)
6 inches	R-21.6 (3.81)	R-21.6 (3.80)	R-27.5 (4.84)

** Data assumes vertical spacing of 36 in.

Insulation Type Sensitivity

The Morrison Hershfield test results show good agreement as the effective R-values vary by less than 1% between insulation types. The iCLAD system U- and Effective R-Values are largely independent of insulation type and thickness and are characterized by the nominal R-value of the insulation.



	R4.2/in Mineral Wool	R5/in Foam Board	R6/in Spray foam
Assembly Effective R-Value hr ² Fft ² /BTU (m ² K/W)	R-19.2 (3.38)	R-21.4 (3.76)	R-23.5 (4.14)

** Table assumes 6 in. Insulation thickness