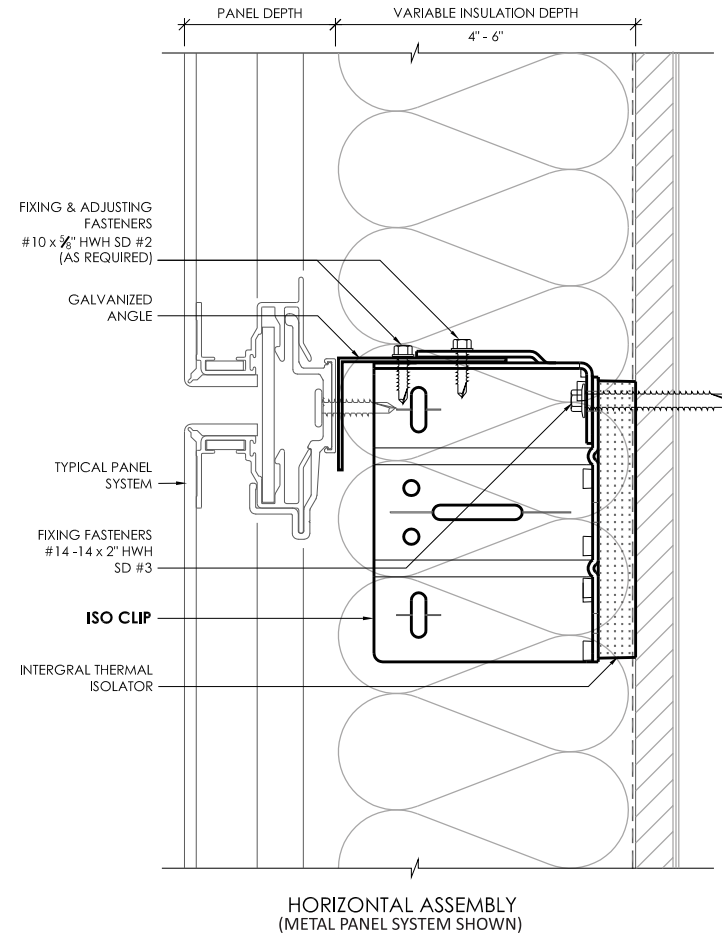
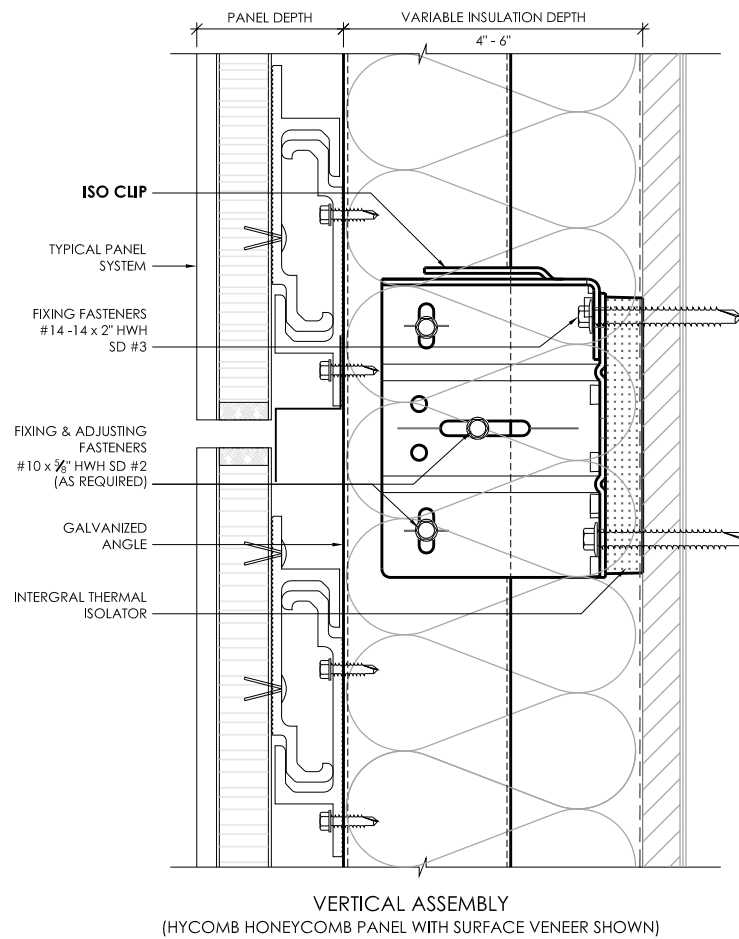


SYSTEM DETAILS

THERMAL ISOLATION CLIP

Thermal break for high performance building envelope



INFO@ISOCLIPS.COM

ISOCLIPS.COM

1-877-623-5223

isoclip
THERMAL ISOLATION CLIP

ADJUSTABLE

VERSATILE

ONE-CLIP

LOW-COST

EASY INSTALLATION

isoclip
THERMAL ISOLATION CLIP



Increasingly stringent building codes coupled with rising energy costs has opened the market for new methods of effectively insulating buildings. The ISO Clip has been designed to meet these needs in an economical and user friendly design. The exterior appearance of the building façade is important but the effectiveness of the wall assembly is what will provide occupan- cy comfort and energy efficiency. Overuse of carbon heavy energy sources to maintain indoor temperatures are not only expen- sive but environmentally detrimental.

NEXT GENERATION PERFORMANCE

The ISO Clip is a thermal barrier separating the interior of the building from the exterior framing components. Unique design features reduce the thermal transfer from the interior to the exterior. Thermal performance of the clip has been verified by the industry leaders, Morrison Hershfield.

The ISO Clip is engineered to perform on all substrates; including concrete, concrete block, steel studs or wood. The ISO Clip accommodates a variety of insulation thicknesses or wall depths, eliminating the need for shims or multiple clip sizes. The ISO Clip installed in the same orientation is suited to accept either vertical or horizontal sub-girts. Versatility and ease of use combined with the effective use of insulation makes the ISO Clip the product to specify.

The ISO Clip team is available to assist you with all stages of your building performance design. Full sets of system details, engineering load tables and calculations are available. Your engineers or ours, are able to design the most functional wall assembly for your chosen insulation and cladding.

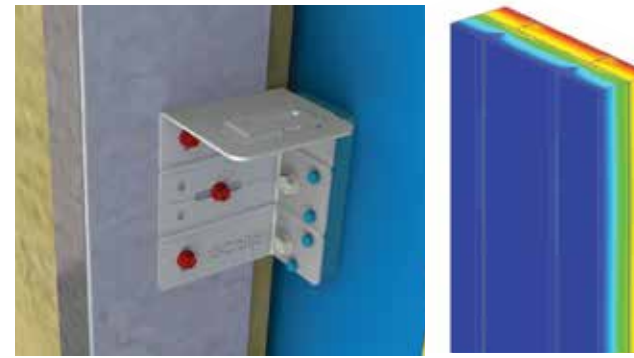


FIGURE 1 - VERTICAL ASSEMBLY & THERMAL PROFILE

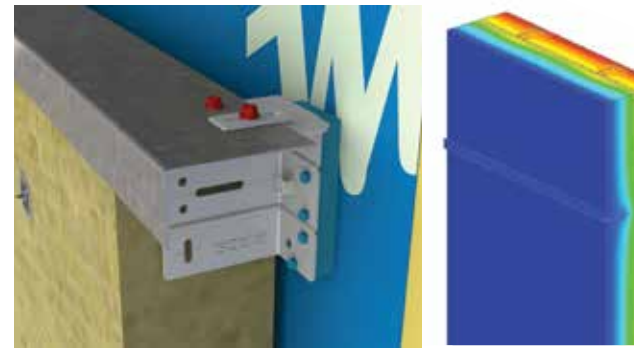


FIGURE 2 - HORIZONTAL ASSEMBLY & THERMAL PROFILE

MORRISON HERSHFIELD REPORT

The ISO Clip provides a thermally broken and intermittent structural attachment for cladding systems to exterior wall assemblies. The clip is fabricated from Z-275 galvanized steel, and overmolded with a plastic isolator. Both horizontal and vertical steel girts can be attached to the ISO Clip, as shown in Figures 1 & 2. The horizontal flange of the clip has a punched slot that allows the sub-girts to be adjusted, held and fastened to the clip. The plastic isolator between the metal clip and the wall provides a thermal break that reduces thermal bridging. For steel stud assemblies, the clips are fastened through the exterior sheathing directly to the steel studs using self-drilling screws.

“For exterior insulated steel stud assemblies, the ISO Clip System provides an effective means of reducing thermal bridging in exterior façade systems compared to traditional continuous girt systems. The ISO Clip System can be used to meet many of the demanding thermal requirements from current energy codes and standards in Canada. The U- and R-values provided by this summary can be used for compliance calculations for any of the compliance paths set forth in ASHRAE 90.1, NECB or SB-10.thermal bridging.

WHY USE ISOCLIP?

- One component clip with integral moulded thermal pad
- Robust
- Same clip applied horizontally or vertically
- Girts can be pre-assembled to the ISO Clip for faster field installation
- Less inventory to stock
- One source purchasing for your clips, girts and fasteners
- Increased availability through growing network of regional distributors/stockists

WHAT ARE THE BENIFITS?

- 3D Thermal Analysis for SB10 and ASHRAE 90.1 *
- FEA Structural Analysis by JEI Engineering
- Evaluated for NFPA 285
- Accommodates +/- 1/2" adjustment for wall deviation
- Fully Engineered
- Acceptable for multiple substrates
- Cost-effective
- Allows for horizontal and vertical installations
- One clip accommodates varying wall depths
- Shims not required
- North American made
- Installer friendly with our built-in "helping hand"
- Currently approved for 4", 5", 6" of insulation can be modeled on request and at cost for other depths of insulation and project specific wall assemblies.

CLEAR FIELD THERMAL PERFORMANCE EXTERIOR INSULATED STEEL STUD ASSEMBLY

SYSTEM & STUD SPACING	EXTERIOR INSULATION LEVEL (in)	EXTERIOR INSULATION NOMINAL R-VALUE hr ft ² °F/BTU (m ² K/W)	ASSEMBLY EFFECTIVE R-VALUE hr ft ² °F/BTU (m ² K/W)		
			36" VERTICAL SPACING	48" VERTICAL SPACING	60" VERTICAL SPACING
HORIZONTAL SYSTEM 16" STUD SPACING	4	16.8 (2.96)	R-16.4 (2.88)	R-17.2 (3.02)	R-17.7 (3.12)
	5	21.0 (3.70)	R-18.7 (3.3)	R-19.8 (3.5)	R-20.6 (3.64)
	6	25.2 (4.44)	R-20.9 (3.67)	R-22.3 (3.93)	R-23.4 (4.12)
HORIZONTAL SYSTEM 24" STUD SPACING	4	16.8 (2.96)	R-17.1 (3.01)	R-17.8 (3.13)	R-18.2 (3.21)
	5	21.0 (3.70)	R-19.7 (3.47)	R-20.7 (3.64)	R-21.3 (3.75)
	6	25.2 (4.44)	R-22.0 (3.87)	R-23.3 (4.1)	R-24.2 (4.26)

