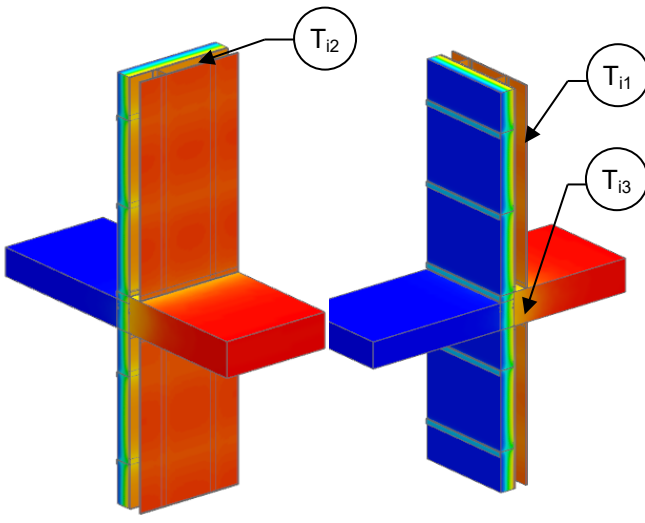


Detail 5.2.42

Exterior Insulated 3 5/8" x 1 5/8" Steel Stud (16" o.c.) Wall Assembly with Horizontal Z-girts (24" o.c.) Supporting Metal Cladding – Isokorb KXT65-V8 Thermally Broken Slab Projection with Insulated Curb



View from Interior

View from Exterior

Thermal Performance Indicators



Assembly 1D (Nominal) R-Value	R_{1D}	R-3.2 (0.56 RSI) + exterior insulation
Transmittance / Resistance without Anomaly	U_o, R_o	“clear wall” U- and R-value, without slab
Transmittance / Resistance	U, R	U- and R-values for overall assembly
Surface Temperature Index ¹	T_i	0 = exterior temperature 1 = interior temperature
Linear Transmittance	ψ	Incremental increase in transmittance per linear length of slab

¹Assumptions and limitations for surface temperatures identified in ASHRAE 1365-RP

Nominal (1D) vs. Assembly Performance Indicators

Exterior Insulation 1D R-Value (RSI)	R_{1D} ft ² ·hr·°F / Btu (m ² K / W)	R_o ft ² ·hr·°F / Btu (m ² K / W)	U_o Btu/ft ² ·hr·°F (W/m ² K)	R ft ² ·hr·°F / Btu (m ² K / W)	U Btu/ft ² ·hr·°F (W/m ² K)	ψ Btu/ft hr °F (W/m K)
R-22.5 (3.96)	R-25.7 (4.52)	R-13.8 (2.44)	0.072 (0.41)	R-11.8 (2.07)	0.085 (0.48)	0.126 (0.217)

Temperature Indices

T_{i1}	0.78	Min T on sheathing away from slab, between studs at girts
T_{i2}	0.89	Max T on sheathing away from slab, between girts at studs
T_{i3}	0.81	Min T on slab exposed to interior air, at sheathing between studs