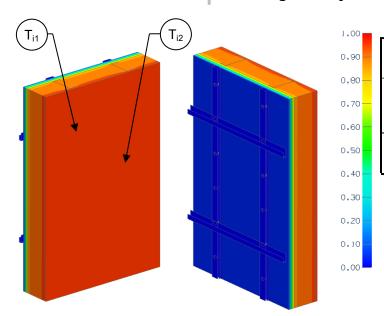
Detail 5.1.38

Exterior Insulated 6" x 1 5/8" Steel Stud (16" o.c.) Wall Assembly with Knight CI-System (8" o.c.) – Clear Wall



Thermal Performance Indicators

Assembly 1D (Nominal) R-Value	R _{1D}	R-2.8 (0.49 RSI) + exterior insulation
Transmittance / Resistance without Anomaly	U _{o,} R _o	"clear wall" U- and R-value
Surface Temperature Index ¹	T _i	0 = exterior temperature 1 = interior temperature

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

View from Interior View from Exterior Nominal (1D) vs. Assembly Performance Indicators

Exterior Insulation 1D R-Value (RSI)	R _{1D} ft²·hr·ºF / Btu (m² K / W)	R₀ ft²·hr.ºF / Btu (m² K / W)	U₀ Btu/ft² ·hr ·ºF (W/m² K)
R-10.1 (1.78)	R-12.9 (2.27)	R-12.5 (2.20)	0.080 (0.45)
R-19.0 (3.35)	R-21.8 (3.84)	R-20.7 (3.65)	0.048 (0.27)

Temperature Indices

	R10	R19	
T _{i1}	0.61	0.68	Min T on exterior insulation, around fasteners
T _{i2}	0.85	0.91	Max T on exterior insulation, along studs



