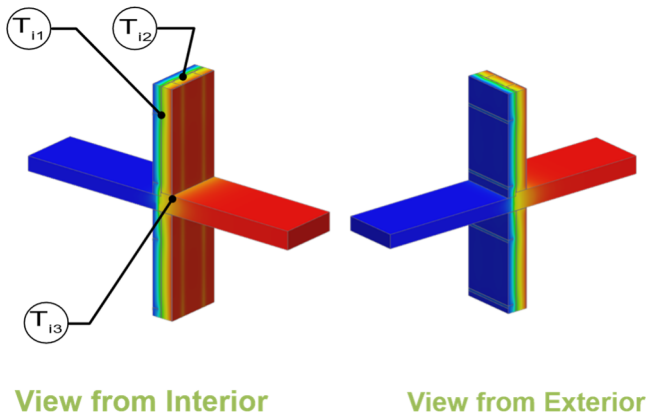


Detail 5.2.53

Exterior and Interior Insulated 6" x 1 5/8" Steel Stud (16 o.c.) Wall Assembly with Thermally Isolated Steel Clip System with Horizontal Girt Supporting Metal Cladding and R-20 Batt Insulation in Stud Cavity- Concrete Projection with TBS Thermal Break and Exterior Insulated Curb

Thermal Performance Indicators



Assembly 1D (Nominal) R-value	R_{1D}	R-22.4 (7.64 RSI) + exterior insulation
Transmittance / Resistance without Anomaly	U_o, R_o	"clear wall" U- and R-value, without concrete projection
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 projection

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

Nominal (1D) vs. Assembly Performance Indicators

Exterior Insulation 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-21.0 (3.67)	43.4 (7.64)	27.3 (4.81)	0.037 (0.208)	18.8 (3.31)	0.053 (0.302)	0.166 (0.288)

Temperature Indices

T_{i1}	0.53	Min T on sheathing away from slab at clips
T_{i2}	0.76	Max T on sheathing away from slab, at midpoint between clips
T_{i3}	0.85	Min T on slab exposed to interior air