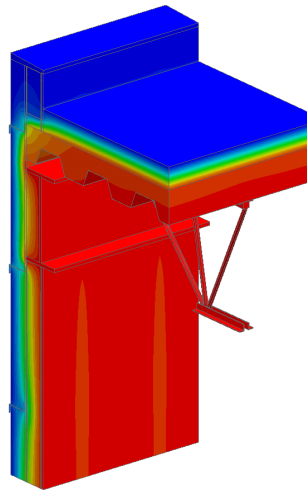
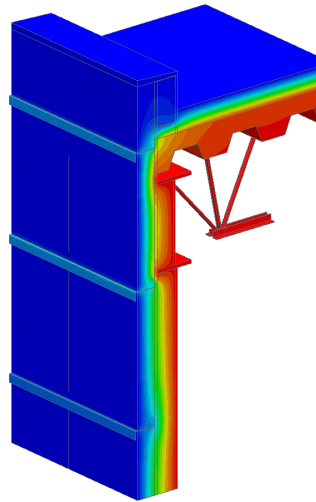


Detail 7

**Exterior and Interior 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 – Steel Roof Deck with Open Web Steel Joist & Parapet
Intersection with Thermal Break under Parapet Stud Cavity**



View from Interior



View from Exterior



Thermal Performance Indicators

Assembly 1D (Nominal) R-Value	R_{1Dw}	R-14.2 (2.50 RSI) + exterior insulation
Transmittance / Resistance without Anomaly	U_r, R_r, U_w, R_w	"clear field" U- and R-values for: r = insulated roof w = steel stud wall assembly with horizontal z girts
Transmittance / Resistance ¹	U, R	U and R-values for the overall assembly
Surface Temperature Index	T_i	0 = exterior temperature 1 = interior temperature
Linear Transmittance	ψ	Incremental increase in transmittance per linear length of parapet

¹Note, assembly U- and R-values are based on model dimensions (see accompanying data sheet). Overall assembly U- and R-Values for other assembly dimensions can be calculated using the linear transmittance

Nominal (1D) vs. Assembly Performance Indicators

Base Assembly – Wall

Wall Exterior Insulation 1D R-Value (RSI)	R_{1D} ft ² ·hr·°F / Btu (m ² K / W)	R_w ft ² ·hr·°F / Btu (m ² K / W)	U_w Btu/ft ² ·hr ·°F (W/m ² K)
R-15 (2.64)	R-29.2 (5.14)	R-18.5 (3.25)	0.054 (0.31)

Base Assembly - Roof

Roof Exterior Insulation 1D R-Value (RSI)	R_r ft ² ·hr·°F / Btu (m ² K / W)	U_r Btu/ft ² ·hr ·°F (W/m ² K)
R-20 (3.52)	R-21.9 (3.86)	0.046 (0.26)

Parapet Linear Transmittance

Wall Exterior Insulation 1D R-Value (RSI)	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-15 (2.64)	R-14.0 (2.47)	0.071 (0.39)	0.151 (0.260)