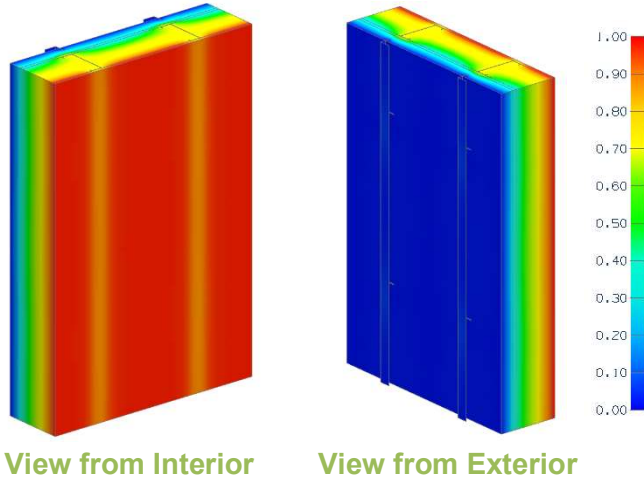


Detail 5.1.139

Exterior and Interior Insulated 6" x 1 5/8" Steel Stud (16" o.c.) Wall Assembly with Thermally Broken 2" ISO Clip System Supporting Vertical Sub-girts and R-19 Batt Insulation in Stud Cavity – Clear Wall



Thermal Performance Indicators

Assembly 1D (Nominal) R-Value	R_{1D}	R-21.3 (3.75 RSI) + exterior insulation
Transmittance / Resistance without Anomaly	U_o, R_o	"clear field" U- and R-value

Metric	Units
Exterior Insulation 1D R-Value, R_{1D}, R_o	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)

Nominal (1D) vs. Assembly Performance Indicators

Horizontal Clip Spacing	Exterior Insulation 1D R-Value	R_{1D}	24" Vertical Clip Spacing		36" Vertical Clip Spacing		48" Vertical Clip Spacing		60" Vertical Clip Spacing	
			R_o	U_o	R_o	U_o	R_o	U_o	R_o	U_o
16"	R-8.6 (1.51)	R-29.9 (5.26)	R-18.6 (3.28)	0.054 (0.31)	R-19.2 (3.38)	0.052 (0.30)	R-19.5 (3.43)	0.051 (0.29)	R-19.6 (3.46)	0.051 (0.29)
	R-10.8 (1.89)	R-32.1 (5.64)	R-19.9 (3.50)	0.050 (0.29)	R-20.7 (3.64)	0.048 (0.27)	R-21.1 (3.71)	0.048 (0.27)	R-21.2 (3.74)	0.047 (0.27)
	R-12.9 (2.27)	R-34.2 (2.83)	R-20.9 (3.68)	0.048 (0.27)	R-21.8 (3.84)	0.046 (0.26)	R-22.2 (3.91)	0.045 (0.26)	R-22.5 (3.96)	0.045 (0.25)
	R-15.1 (2.65)	R-36.4 (3.21)	R-21.9 (3.86)	0.046 (0.26)	R-23.0 (4.06)	0.043 (0.25)	R-23.5 (4.14)	0.043 (0.24)	R-23.8 (4.19)	0.042 (0.24)