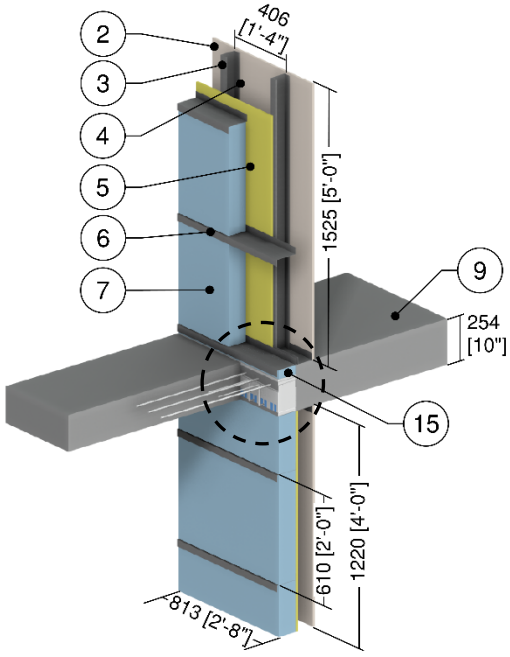
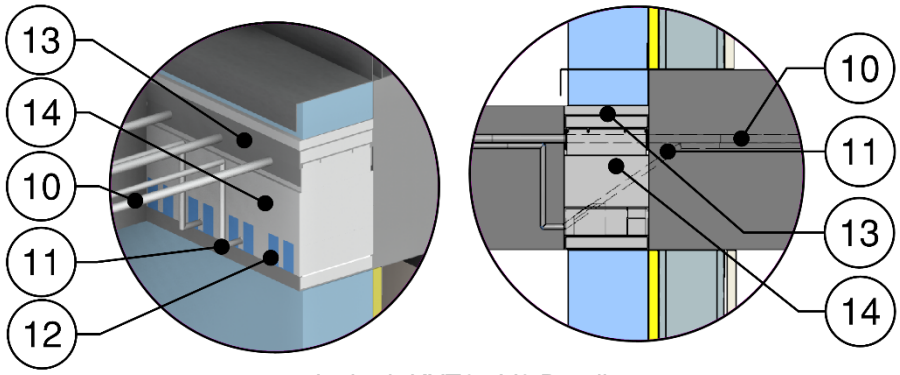
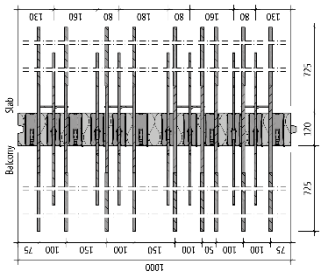
Detail 5.2.42

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





Isokorb KXT65-V8 Detail



Isokorb KXT65-V8 Rebar Arrangement

ID	Component	Thickness Inches (mm)	Conductivity Btu·in / ft²·hr·°F (W/m K)	Nominal Resistance hr·ft²·°F/Btu (m²K/W)	Density lb/ft³ (kg/m³)	Specific Heat Btu/lb·°F (J/kg K)
1	Interior Films[1]	-	-	R-0.6 to R-0.9 (0.11 RSI to 0.16 RSI)	-	-
2	Gypsum Board	1/2" (13)	1.1 (0.16)	R-0.5 (0.08 RSI)	50 (800)	0.26 (1090)
3	3 5/8” x 1 5/8” Steel Studs with Top and Bottom Tracks	18 Gauge	430 (62)	-	489 (7830)	0.12 (500)
4	Air in Stud Cavity	3 5/8” (92)	-	R-0.9 (0.16 RSI)	0.075 (1.2)	0.24 (1000)
5	Exterior Sheathing	1/2” (13)	1.1 (0.16)	R-0.5 (0.08 RSI)	50 (800)	0.26 (1090)
6	Horizontal Z-girts w/ 1 1/2" Flange	18 Gauge	430 (62)	-	489 (7830)	0.12 (500)
7	Exterior Insulation	4.5” (114)	-	R-22.5 (3.96 RSI)	1.8 (28)	0.29 (1220)
8	Metal Cladding with 1/2” vented airspace incorporated into exterior heat transfer coefficient					
9	Concrete Slab	10” (254)	12.5 (1.8)	-	140 (2250)	0.20 (850)
10	Steel Rebar	-	347 (50)	-	489 (7830)	0.12 (500)
11	Stainless Steel Rebar	-	118 (17)	-	500 (8000)	0.12 (500)
12	Plastic Sleeve	-	1.7 (0.25)	-	72 (1150)	0.20 (850)
13	Isokorb Frame	-	1.7 (0.25)	-	72 (1150)	0.20 (850)
14	Polystyrene Insulation	4.7” (120)	0.22 (0.031)	R-21.7 (3.83 RSI)	1.3 (20)	0.35 (1500)
15	Curb Insulation	4.5” (114)	-	R-22.5 (3.96 RSI)	1.8 (28)	0.29 (1220)
16	Exterior Film[1]	-	-	R-0.2 to R-0.7 (0.03 RSI to 0.12 RSI)	-	-

[1] Value selected from table 1, p. 26.1 of 2009 ASHRAE Handbook – Fundamentals depending on surface orientation