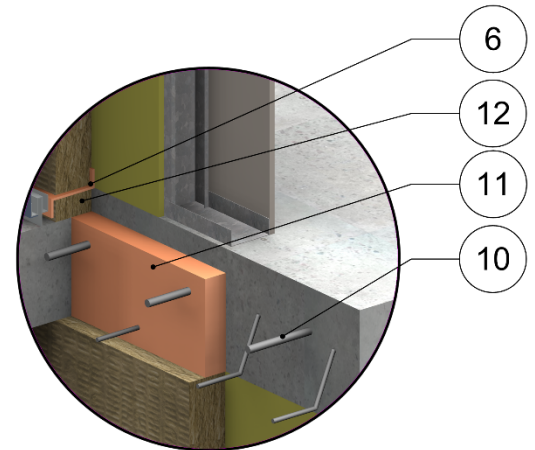
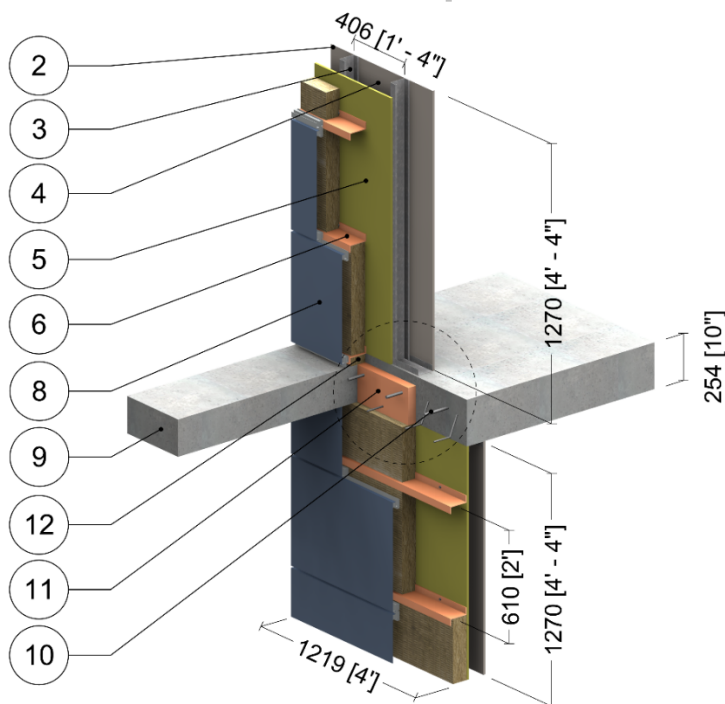


Armatherm Girt Detail

Exterior Insulated Steel Stud Wall Assembly with Armatherm Z-girts Supporting Metal Cladding – Armatherm 500-080 Thermally Broken Slab Projection with Insulated Curb



Thermally Broken Slab Detail
(Armatherm 500-080)

ID	Component	Thickness Inches (mm)	Conductivity Btu·in / ft ² ·hr·°F (W/m K)	Nominal Resistance hr·ft ² ·°F/Btu (m ² K/W)	Density lb/ft ³ (kg/m ³)	Specific Heat Btu/lb·°F (J/kg K)
1	Interior Film ¹	-	-	R-0.6 (0.11 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 Cavity	3 5/8" (92)	-	R-0.9 (2.11 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	Armatherm Z-girts	0.2 (5)	1.4 (0.2)	-	-	-
7	Exterior Insulation	3 1/2" (89)	-	R-14.7 (2.59 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	Stainless Steel Rebar	-	118 (17)	-	500 (8000)	0.12 (500)
11	Armatherm 500-080 Thermal Break	2" (51)	0.26 (0.04)	-	-	-
12	Curb Insulation	3 1/2" (89)	-	R-14.7 (2.59 RSI)	1.8 (28)	0.29 (1220)
13	Exterior Film ¹	-	-	R-0.7 (0.12 RSI)	-	-

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