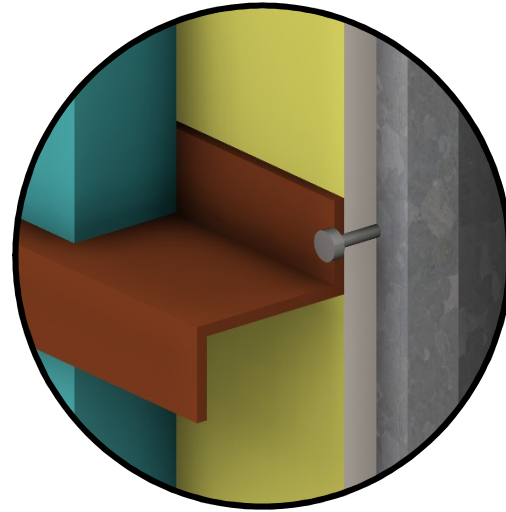
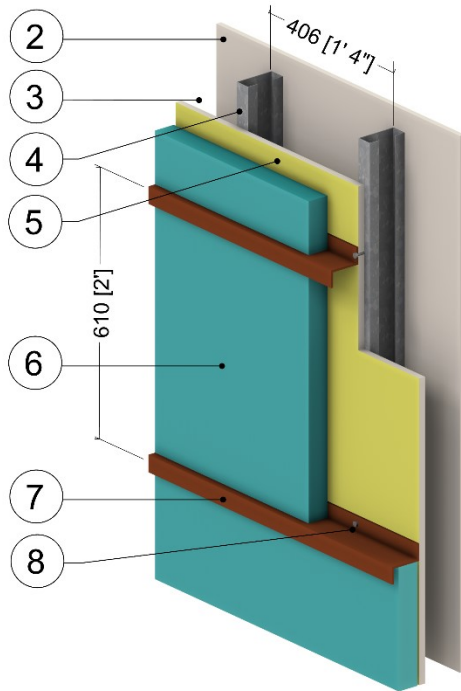


Detail 1

Exterior Insulated 3 5/8" x 1 5/8" Steel Stud (16" O.C.) Wall Assembly with Armadillo FRR Horizontal Z-Girts Supporting Cladding – Clear Wall

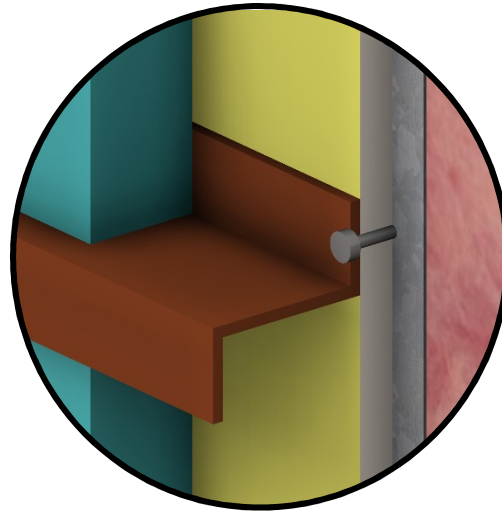
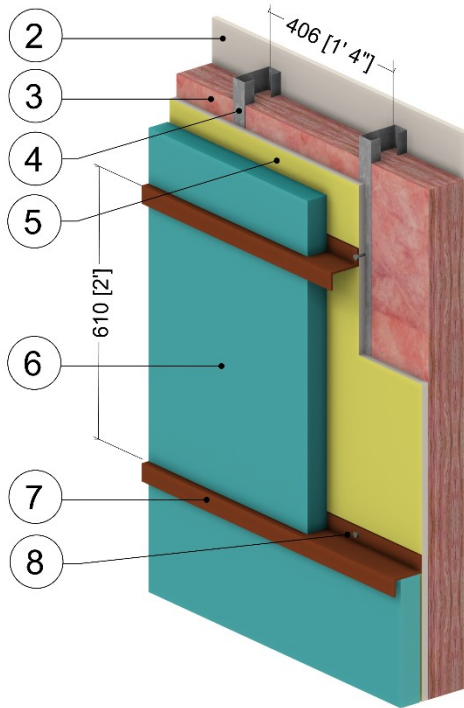


FRR Girt Detail

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	-	-	R-0.7 (0.12 RSI)	-	-
2	Gypsum Board	1/2" (13)	1.1 (0.16)	R-0.5 (0.08 RSI)	50 (800)	0.26 (1090)
3	Air Cavity	3 5/8" (92)	-	R-0.9 (0.16 RSI)	0.075 (1.2)	0.24 (1000)
4	3 5/8" x 1 5/8" Steel Studs	18 Gauge	430 (62)	-	489 (7830)	0.12 (500)
5	Exterior Sheathing	5/8" (16)	1.1 (0.16)	R-0.6 (0.10 RSI)	50 (800)	0.26 (1090)
6	Exterior Insulation	Varies	-	R-5.0 to R-35.0 (0.88 RSI to 6.16 RSI)	4 (64)	0.20 (850)
7	Armadillo FRR Girt	-	1.4 (0.2)	-	85 (5.3)	-
8	#12 Steel Fasteners	-	347 (50)	-	489 (7830)	0.12 (500)
9	Generic Cladding with 1/2" (13mm) vented air space is incorporated into exterior heat transfer coefficient					
10	Exterior Film	-	-	R-0.7 (0.12 RSI)	-	-

Detail 2

Exterior and Interior Insulated 3 5/8" x 1 5/8" Steel Stud (16" O.C.) Wall Assembly with Armadillo FRR Horizontal Z-Girts Supporting Cladding – Clear Wall

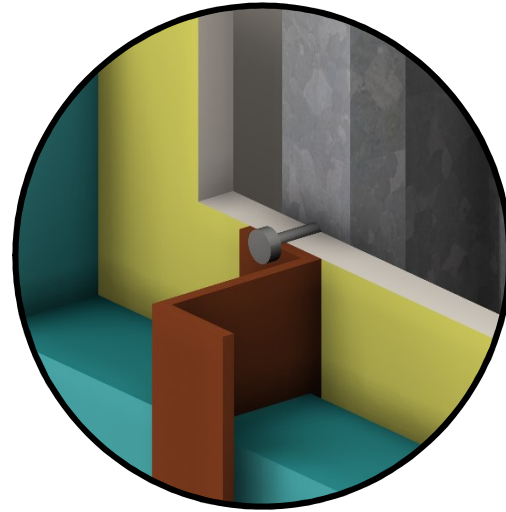
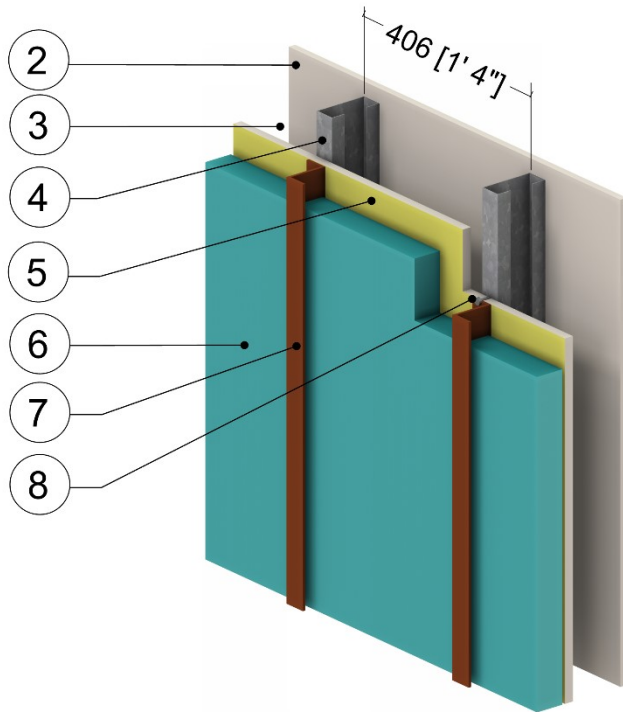


FRR Girt Detail

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	-	-	R-0.7 (0.12 RSI)	-	-
2	Gypsum Board	1/2" (13)	1.1 (0.16)	R-0.5 (0.08 RSI)	50 (800)	0.26 (1090)
3	Batt Insulation	3 5/8" (92)	-	R-13.0 (2.29 RSI)	4 (64)	0.20 (850)
4	3 5/8" x 1 5/8" Steel Studs	18 Gauge	430 (62)	-	489 (7830)	0.12 (500)
5	Exterior Sheathing	5/8" (16)	1.1 (0.16)	R-0.6 (0.10 RSI)	50 (800)	0.26 (1090)
6	Exterior Insulation	Varies	-	R-5.0 to R-35.0 (0.88 RSI to 6.16 RSI)	4 (64)	0.20 (850)
7	Armadillo FRR Girt	-	1.4 (0.2)	-	85 (5.3)	-
8	#12 Steel Fasteners	-	347 (50)	-	489 (7830)	0.12 (500)
9	Generic Cladding with 1/2" (13mm) vented air space is incorporated into exterior heat transfer coefficient					
10	Exterior Film	-	-	R-0.7 (0.12 RSI)	-	-

Detail 3

Exterior Insulated 3 5/8" x 1 5/8" Steel Stud (16" O.C.) Wall Assembly with Armadillo FRR Vertical Z-Girts Supporting Cladding – Clear Wall

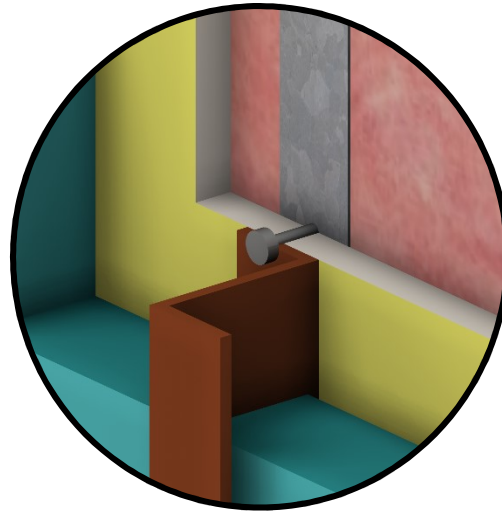
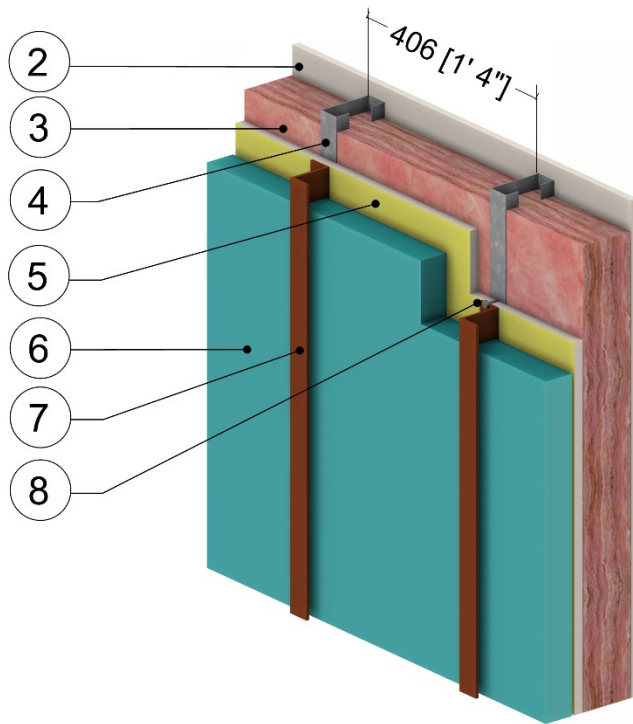


FRR Girt Detail

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 Film	-	-	R-0.7 (0.12 RSI)	-	-
2	Gypsum Board	1/2" (13)	1.1 (0.16)	R-0.5 (0.08 RSI)	50 (800)	0.26 (1090)
3	Air Cavity	3 5/8" (92)	-	R-0.9 (0.16 RSI)	0.075 (1.2)	0.24 (1000)
4	3 5/8" x 1 5/8" Steel Studs	18 Gauge	430 (62)	-	489 (7830)	0.12 (500)
5	Exterior Sheathing	5/8" (16)	1.1 (0.16)	R-0.6 (0.10 RSI)	50 (800)	0.26 (1090)
6	Exterior Insulation	Varies	-	R-5.0 to R-35.0 (0.88 RSI to 6.16 RSI)	4 (64)	0.20 (850)
7	Armadillo FRR Girt	-	1.4 (0.2)	-	85 (5.3)	-
8	#12 Steel Fasteners @ 16" o.c.	-	347 (50)	-	489 (7830)	0.12 (500)
9	Generic Cladding with 1/2" (13mm) vented air space is incorporated into exterior heat transfer coefficient					
10	Exterior Film	-	-	R-0.7 (0.12 RSI)	-	-

Detail 4

Exterior and Interior Insulated 3 5/8" x 1 5/8" Steel Stud (16" O.C.) Wall Assembly with Armadillo FRR Vertical Z-Girts Supporting Cladding – Clear Wall



FRR Girt Detail

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	-	-	R-0.7 (0.12 RSI)	-	-
2	Gypsum Board	1/2" (13)	1.1 (0.16)	R-0.5 (0.08 RSI)	50 (800)	0.26 (1090)
3	Batt Insulation	3 5/8" (92)	-	R-13.0 (2.29 RSI)	4 (64)	0.20 (850)
4	3 5/8" x 1 5/8" Steel Studs	18 Gauge	430 (62)	-	489 (7830)	0.12 (500)
5	Exterior Sheathing	5/8" (16)	1.1 (0.16)	R-0.6 (0.10 RSI)	50 (800)	0.26 (1090)
6	Exterior Insulation	Varies	-	R-5.0 to R-35.0 (0.88 RSI to 6.16 RSI)	4 (64)	0.20 (850)
7	Armadillo FRR Girt	-	1.4 (0.2)	-	85 (5.3)	-
8	#12 Steel Fasteners @ 16" o.c.	-	347 (50)	-	489 (7830)	0.12 (500)
9	Generic Cladding with 1/2" (13mm) vented air space is incorporated into exterior heat transfer coefficient					
10	Exterior Film	-	-	R-0.7 (0.12 RSI)	-	-