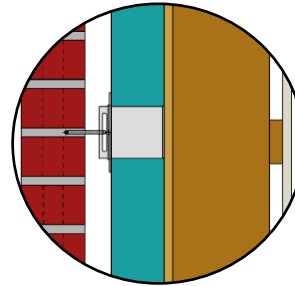
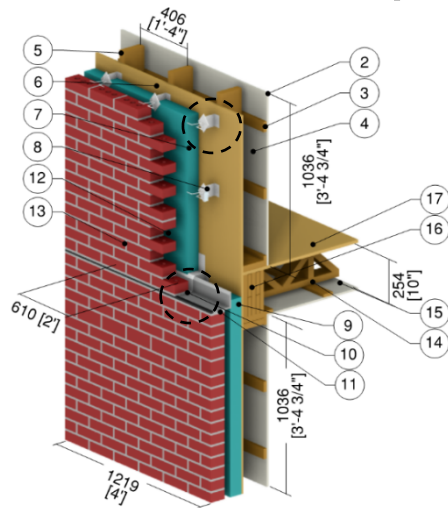
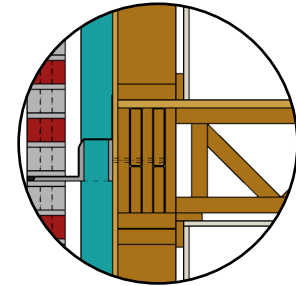


## Detail 8.2.16

### Exterior Insulated 2x6 Wood Stud (16" o.c.) Wall with Interior Wood Furring Assembly with Stand-off (Knife Plate) Shelf Angle & Brick Ties Supporting Brick Veneer – CLT and Wood Truss Floor Intersection



Brick Tie Detail



Shelf Angle Detail

ID	Component	Thickness Inches (mm)	Conductivity Btu-in / ft <sup>2</sup> -hr-°F (W/m K)	Nominal Resistance hr-ft <sup>2</sup> -°F/Btu (m <sup>2</sup> K/W)	Density lb/ft <sup>3</sup> (kg/m <sup>3</sup> )	Specific Heat Btu/lb-°F (J/kg K)
1	Interior Film <sup>1</sup>	-	-	R-0.6 to R-0.9 (0.11 RSI to 0.16 RSI)	-	-
2	Gypsum	1/2" (13)	1.1 (0.16)	R-0.5 (0.08 RSI)	50 (800)	0.26 (1090)
3	1x3 Wood Furring	3/4" (19)	0.69 (0.10)	-	31 (500)	0.45 (1880)
4	Air in Stud Cavity	6 1/4" (159)	-	R-0.9 (0.16 RSI)	0.075 (1.2)	0.24 (1000)
5	2x6 Wood Stud (16" o.c.)	5 1/2" (140)	0.69 (0.10)	-	31 (500)	0.45 (1880)
6	Exterior Plywood Sheathing	1/2" (13)	0.69 (0.10)	-	31 (500)	0.45 (1880)
7	Exterior Insulation	Varies	-	R-10 to R-30 (1.76 to 5.28 RSI)	1.8 (28)	0.29 (1220)
8	Brick Ties	14 gauge	347 (50)	-	489 (7830)	0.12 (500)
9	Exterior Insulation Behind Shelf Angle	Varies	-	R-10 to R-30 (1.76 to 5.28 RSI)	1.8 (28)	0.29 (1220)
10	Flashing	20 gauge	347 (50)	-	489 (7830)	0.12 (500)
11	Steel Shelf Angle	3/8" (10)	347 (50)	-	489 (7830)	0.12 (500)
12	Air Cavity	1 1/2" (38)	-	R-0.4 (0.07 RSI)	0.075 (1.2)	0.24 (1000)
13	Brick Veneer	3 5/8" (92)	5.4 (0.78)	R-0.7 (0.12 RSI)	140 (2250)	0.20 (850)
14	2x4 Wood Truss (16" o.c.)	1 1/2" (38)	0.69 (0.10)	-	31 (500)	0.45 (1880)
15	Air in Floor Cavity	10 3/4" (273)	-	R-0.9 (0.16 RSI)	0.075 (1.2)	0.24 (1000)
16	CLT	10" (254)	0.83 (0.12)	-	31 (500)	0.45 (1880)
17	Plywood Floor	3/4" (19)	0.69 (0.10)	-	31 (500)	0.45 (1880)
18	Exterior Film <sup>1</sup>	-	-	R-0.2 (0.03 RSI)	-	-

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