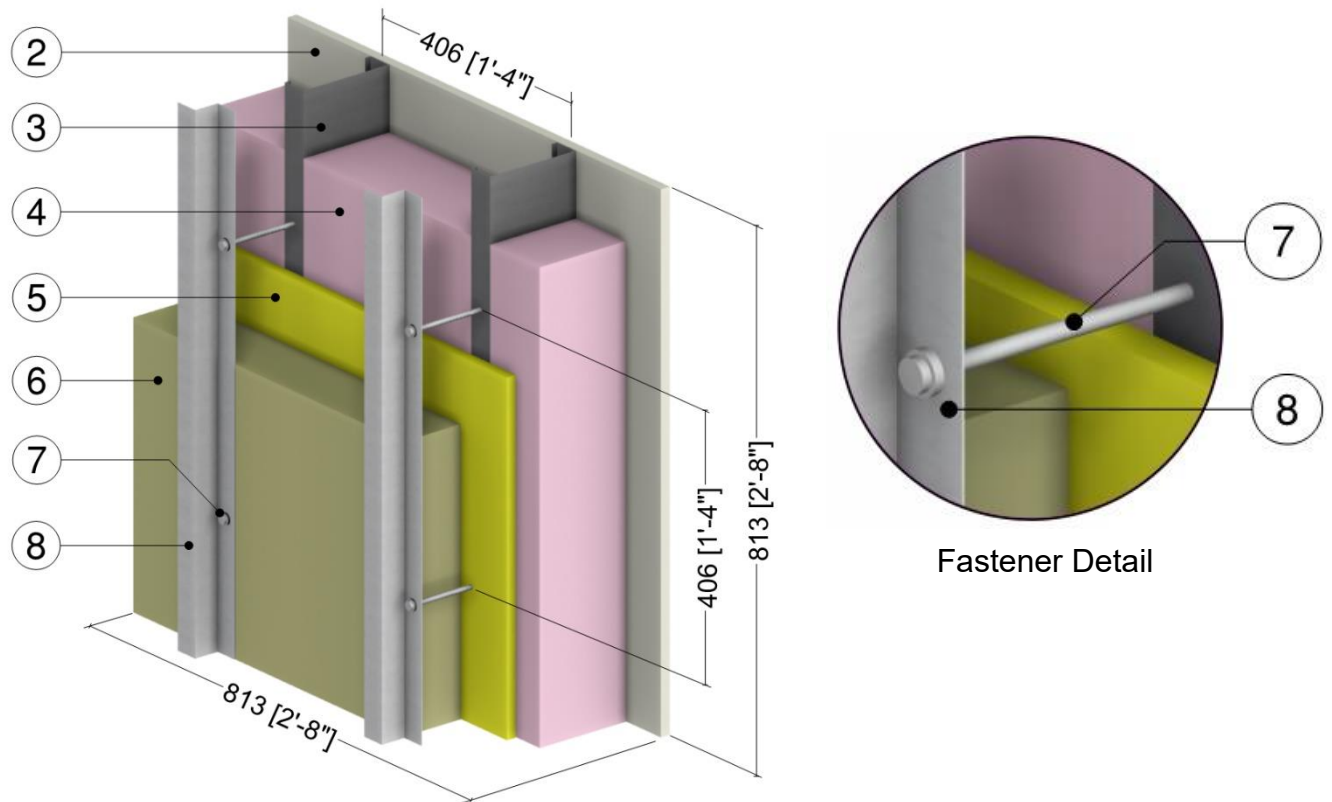


## Detail 5.1.113

**Exterior and Interior Insulated 6" x 1 5/8" Steel Stud (16" o.c.) Wall Assembly with High Compression Insulation and Through Insulation Stainless Steel Fasteners (16" o.c.) Supporting Cladding, Owens Corning ThermaFiber RainBarrier HC 80 Insulation and R-20 Batt Insulation in Stud Cavity – Clear Wall**



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-0.7 (0.12 RSI)	-	-
2	Gypsum Board	5/8" (16)	1.1 (0.16)	R-0.6 (0.10 RSI)	50 (800)	0.26 (1090)
3	6" x 1 5/8" Steel Studs	18 Gauge	430 (62)	-	489 (7830)	0.12 (500)
4	Ecotouch Pink Fiberglass Batt	6" (152)	0.28 (0.041)	R-20 (3.52 RSI)	0.55 (8.8)	0.17 (710)
5	Exterior Sheathing	5/8" (16)	1.1 (0.16)	R-0.6 (0.10 RSI)	50 (800)	0.26 (1090)
6	ThermaFiber RainBarrier HC 80 Mineral Wool Semi Rigid Insulation	Varies	0.24 (0.034)	R-4.2 to R-16.8 (0.74 to 2.96 RSI)	4.5 (72)	0.20 (850)
7	#12 Stainless Steel Fasteners (16" o.c.)	0.21" (5.3) Ø	118 (17)	-	500 (8000)	0.12 (500)
8	Vertical Z-Girts	18 Gauge	430 (62)	-	489 (7830)	0.12 (500)
9	Metal Cladding with 1/2" (13 mm) vented airspace incorporated into exterior heat transfer coefficient					
10	Exterior Film <sup>1</sup>	-	-	R-0.7 (0.12 RSI)	-	-

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