

Table 6-2 Assembly 6 prescriptive energy code compliance values excerpted from Table I-1 of the introductory chapter

OPAQUE ABOVE-GRADE WALL - THERMAL ENVELOPE REQUIREMENTS											
	Energy Code	2012 SEC		2012 WSEC		2014 OEESC		2012 IECC			
	Climate Zone	5 and Marine 4		5, 6 and Marine 4		5 and Marine 4		5 and Marine 4		6	
Guide Assembly #	Classification	All Other	Group R	All Other	Group R	All Other	Group R	All Other	Group R	All Other	Group R
6	CMU Wall with Adhered Masonry Veneer	Mass	Exterior: R-16ci <sup>(1)</sup> U-0.057 (R-17.5)	Exterior: R-16ci <sup>(1)</sup> U-0.057 (R-17.5)	R-9.5ci <sup>(2)</sup> U-0.104 <sup>(2)</sup> (R-9.6)	R-13.3ci <sup>(2)</sup> U-0.078 (R-12.8)	R-11.4ci U-0.150 <sup>(2)</sup> (R-6.7)	R-13.3ci U-0.090 <sup>(2)</sup> (R-11.1)	R-11.4ci U-0.078 (R-12.8)	R-13.3ci U-0.078 (R-12.8)	R-15.2ci U-0.071 (R-14.1)

<sup>(1)</sup> When using interior insulation: R-13 + R-6 ci for wood studs or R-13 + R-10 ci for metal stud

<sup>(2)</sup> Provided at least 50% of block cores are filled with vermiculite (or equivalent fill insulation), and enclosing one of the following uses: gymnasium, auditorium, church chapel, arena, kennel manufacturing plant, indoor swimming pool, pump station, water and waste water treatment facility, storage facility, restroom/concessions, mechanical/electric structures, storage area, warehouse (storage and retail), and motor vehicle service facility. In Washington, where additional uses not listed (such as office, retail, etc.) are contained within the building, the exterior walls that enclose these areas may not utilize this exception.

Table 6-3 Assembly 6 thermal modeling results

Exterior Insulation Thickness	CMU Walls with Adhered Masonry over Exterior Insulation, R-4.2/in - R-6/in Exterior Insulation									
	Nominal Exterior Insulation R-Value	3D Thermal Modeling Effective R-Value (ft <sup>2</sup> ·°F·hr/Btu)								
		Exterior Insulation (Without Penetrations)		Fiberglass Clips (0.8% Area)		Stainless Fasteners		Galvanized Fasteners		
3"	12.6–18	15.8–21.2		14.0–17.9		12.7–15.7				
4"	16.8–24	20.1–27.4		17.6–22.6		15.7–19.4				
5"	21–30	24.2–33.3		20.9–26.9		18.4–22.8				
				Intermittent 6" Z-Girts (0.09% Area)						
				Stainless Girt		Galvanized Girt				
3"	12.6–18	15.8–21.2		12.5–15.3		10.2–11.7				
4"	16.8–24	20.1–27.4		15.5–19.1		12.0–13.8				
5"	21–30	24.2–33.3		18.4–22.7		13.7–15.7				

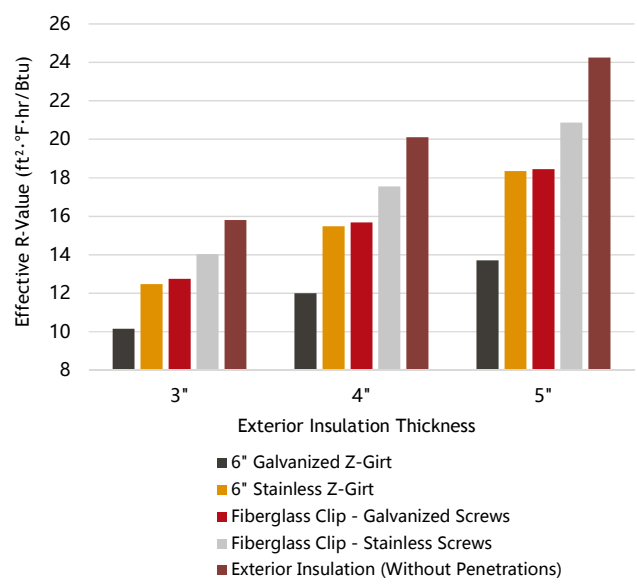


Fig. 6-8 Assembly 6 effective R-value modeling results for R-4.2/inch insulation and various types of cladding support clips

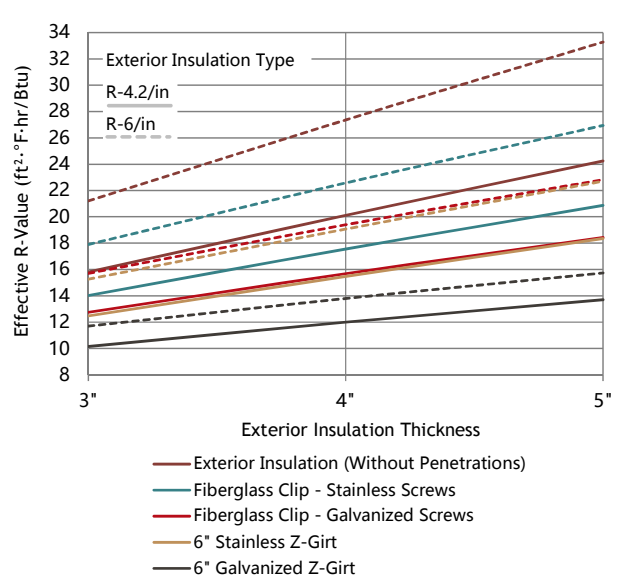


Fig. 6-9 Assembly 6 effective R-value comparison of various cladding support clips and a range of insulation R-values per inch