



**ASHRAE 90.1-2016
2021 IECC Climate Zone 5A**

Green Indicates 'Meets Prescriptive Requirements' per 2021 IECC ,Climate Zone 5A
Rockwool Cavityrock is the basis for this evaluation, R-4.3 per inch

Steel Stud Wall

Stud Spacing	Girt Spacing	Ext. Mineral Wool Insulation Thickness	R-Value	With 6" Cavity Insulation
16"	24"	1.5	8.2	15.1
		2	10.0	16.9
		3	13.6	20.5
		4	17.2	24.1
		5	20.8	27.7
		6	24.4	31.3
		8	31.6	38.5
24"	24"	1.5	8.3	16.9
		2	10.1	18.7
		3	13.7	22.3
		4	17.3	25.9
		5	20.9	29.5
		6	24.5	33.1
		8	31.7	40.3

Assembly Notes: 6" steel studs on 16" or 24" centers. 5/8" exterior drywall, 5/8" interior drywall.; assumed R-15 stud cavity mineral insulation

Wood Stud Wall

Wood Stud Spacing	Girt Spacing	Ext. Mineral Wool Insulation Thickness	R-Value	With 6" Cavity Insulation
16"	24"	1.5	9.0	22.1
		2	10.8	23.9
		3	14.4	27.5
		4	18.0	31.1
		5	21.6	34.7
		6	25.2	38.3
		8	32.4	45.5
24"	24"	1.5	8.9	24.3
		2	10.7	26.1
		3	14.3	29.7
		4	17.9	33.3
		5	21.5	36.9
		6	25.1	40.5
		8	32.3	47.7

Assembly Notes: 2"x6" wood studs on 16" or 24" centers. 5/8" exterior plywood, 5/8" interior drywall; assumed R-15 stud cavity mineral insulation



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Solid Backup Wall

Wall Thickness	Girt Spacing	Ext. Mineral Wool Insulation Thickness	R-Value	
			Cast-In-Place	CMU
6"	24"	1.5	7.1	7.4
		2	8.9	9.2
		3	12.5	12.8
		4	16.1	16.4
		5	19.7	20.0
		6	23.3	23.6
		8	30.5	30.8
8"	24"	1.5	7.2	7.6
		2	9.0	9.4
		3	12.6	13.0
		4	16.2	16.6
		5	19.8	20.2
		6	23.4	23.8
		8	30.6	31.0
10"	24"	1.5	7.3	7.8
		2	9.1	9.6
		3	12.7	13.2
		4	16.3	16.8
		5	19.9	20.4
		6	23.5	24.0
		8	30.7	31.2

Assembly Notes: No interior framing or insulation.