



Wall and Roof R-Values

4 3/8" Standard Wall Panel				8 1/8" Standard Roof Panel			
Through Insulated Area		Through Unbroken Studs		Through Insulated Area		Through Unbroken Studs	
Outside Air Film	0.17	Outside Air Film	0.17	Outside Air Film	0.17	Outside Air Film	0.17
Lap Siding	0.81	Lap Siding	0.81	Asphalt Shingles	0.44	Asphalt Shingles	0.44
7/16" OSB	0.55	7/16" OSB	0.55	Roofing Felt	0.81	Roofing Felt	0.81
3 5/8" EPS	13.99	2x4 Stud	4.38	7/16" OSB	0.55	7/16" OSB	0.55
7/16" OSB	0.55	7/16" OSB	0.55	7 3/8" EPS	28.39	2x8	9.1
6 mil Poly Barrier	0.00	6 mil Poly Barrier	0.00	7/16" OSB	0.55	7/16" OSB	0.55
Gypsum board	0.45	Gypsum board	0.45	6 mil Poly Barrier	0.00	6 mil Poly Barrier	0.00
Inside Air Film	0.68	Inside Air Film	0.68	Gypsum board	0.45	Gypsum board	0.45
Total R Values	17.2		7.59	Total R Values	31.97	Total R Values	12.07

6 3/8" Standard Wall Panel				10 3/8" Standard Roof Panel			
Through Insulated Area		Through Insulated Studs		Through Insulated Area		Through 3/8" OSB I-joist Web	
Outside Air Film	0.17	Outside Air Film	0.17	Outside Air Film	0.17	Outside Air Film	0.17
Lap Siding	0.81	Lap Siding	0.81	Asphalt Shingles	0.44	Asphalt Shingles	0.44
7/16" OSB	0.55	7/16" OSB	0.55	Roofing Felt	0.81	Roofing Felt	0.81
		2x4 Stud	1.88	7/16" OSB	0.55	7/16" OSB	0.55
5 5/8" EPS	21.66	2 1/2" EPS Core	10.5	9 5/8" EPS	37.06	3/8" I-joist web	0.52
		2x4 Stud	1.88	7/16" OSB	0.55	7/16" OSB	0.55
7/16" OSB	0.55	7/16" OSB	0.55	6 mil Poly Barrier	0.00	6 mil Poly Barrier	0.00
6 mil Poly Barrier	0.00	6 mil Poly Barrier	0.00	Gypsum board	0.45	Gypsum board	0.45
Gypsum board	0.45	Gypsum board	0.45	Inside Air Film	0.61	Inside Air Film	0.61
Inside Air Film	0.68	Inside Air Film	0.68	Total R Values	40.03	Total R Values	3.49
Total R Values	24.87		17.47				

8 1/8" Standard Wall Panel				12 3/4" Standard Roof Panel			
Through Insulated Area		Through Insulated Studs		Through Insulated Area		Through 3/8" OSB I-joist Web	
Outside Air Film	0.17	Outside Air Film	0.17	Outside Air Film	0.17	Outside Air Film	0.17
Lap Siding	0.81	Lap Siding	0.81	Asphalt Shingles	0.44	Asphalt Shingles	0.44
7/16" OSB	0.55	7/16" OSB	0.55	Roofing Felt	0.81	Roofing Felt	0.81
		2x4 Stud	1.88	7/16" OSB	0.55	7/16" OSB	0.55
7 3/8" EPS	28.39	4 1/4" EPS Core	17.85	12" EPS	46.2	3/8" I-joist web	0.52
		2x4 Stud	1.88	7/16" OSB	0.55	7/16" OSB	0.55
7/16" OSB	0.55	7/16" OSB	0.55	6 mil Poly Barrier	0.00	6 mil Poly Barrier	0.00
6 mil Poly Barrier	0.00	6 mil Poly Barrier	0.00	Gypsum board	0.45	Gypsum board	0.45
Gypsum board	0.45	Gypsum board	0.45	Inside Air Film	0.61	Inside Air Film	0.61
Inside Air Film	0.68	Inside Air Film	0.68	Total R Values	49.17	Total R Values	3.49
Total R Values	31.60		24.82				

*Federal Trade Commission ruling: Use the 75 deg F R-value when calculating R-values for residential construction (fact sheets available upon request)

The R-value of EPS increase as temperature decreases.