































Inches of	2x4 with R-12 Batt Insulation R-value of Exterior Insulation			2x6 with R-19 Batt Insulation R-value of Exterior Insulation			
Exterior							
Insulation	R-4/in.	R-5/in.	R-5.6/in.	R-4/in.	R-5/in.	R-5.6/in	
0.0	11.3	11.3	11.3	16.2	16.2	16.2	
0.5	13.3	13.8	14.1	18.2	18.7	19.0	
1.0	15.3	16.3	16.9	21.2	21.2	21.8	
1.5	17.3	18.8	19.7	23.7	23.7	24.6	
2.0	19.3	21.3	22.5	26.2	26.2	27.4	
2.5	21.3	23.8	25.3	28.7	28.7	30.2	
3.0	23.3	26.3	28.1	31.2	31.2	33.0	
4.0	27.3	31.3	33.7	36.2	36.2	38.6	
5.0	31.3	36.3	39.2	41.2	41.2	44.2	
6.0	35.3	41.3	44.9	46.2	46.2	49.8	
7.0	39.3	46.3	50.5	51.2	51.2	55.4	
8.0	43.3	51.3	56.1	56.2	56.2	61.0	









Dry Cup Permeance (US Perms)								
Insulation Type	1"	2"	3"	4"	5"	6"	7"	8"
XPS	0.9	0.4	0.3	0.2	0.2	0.1	0.1	0.1
Closed Cell Sprayfoam	1.7	0.9	0.6	0.4	0.3	0.3	0.2	0.2
Polyiso with Paper Facers	2.0	1.0	0.7	0.6	0.4	0.4	0.3	0.3
Polyiso with Foil Facers	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
EPS (Type 1) w/o facers	3.5	1.8	1.2	0.9	0.7	0.6	0.5	0.4
Wood Fiber Board	9.1	4.6	3.0	2.3	1.8	1.5	1.3	1.1
Open Cell Sprayfoam	60.2	30.1	20.1	15.1	12.0	10.0	8.6	7.5
Rigid Mineral Wool	88.8	49.5	29.6	22.2	17.8	14.8	12.7	11.
Cellulose	92.3	46.1	30.8	23.1	18.5	15.4	13.2	11.
Rigid Fiberglass	145.1	72.5	48.4	36.3	29.0	24.2	20.7	18.











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Heating Degree Days	Minimum Ratio of Total Thermal Resistance Outboard of Material's Inner Surface to Total Thermal Resistance Inboard of Materials Inner Surface	Outboard to Total Ratio	
Up to 4999	0.20	0.17	
5000 - 5999	0.30	0.23	
6000 - 6999	0.35	0.26	
7000 – 7999	0.40	0.29	
8000 - 8999	0.50	0.33	
9000 - 9999	0.55	0.35	
10000 – 10999	0.60	0.38	
11000 – 11999	0.65	0.39	
12000 or higher	0.75	0.43	

































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