

Technical Bulletin

When compressed to less than its' labeled thickness, glass fiber insulation will experience a reduction in R-value. The chart below indicates the compressed R-value of standard building insulation products when installed in framing cavities with a depth that is less than the labeled thickness of the insulation.

Nominal Lumber	Cavity Depth ⁱ	Insulation R-Values When Compressed In Framing Cavity ²													
Size	•														
l joist	4"	49													
l joist	-7/8"	44	38												
2 x 12	-¼"	42	37												
l joist	9-1/2"	38	33												
2 × 10	9-1⁄4"	37	32	35	30										
2 × 8	7-1⁄4"		27	29	25	27	24								
2 x 6 ³	6"				22	24	21	21							
2 × 6	5-1/2"				21	22	20	19	21	20	18				
2 x 4 ³	4"						16	15	16	16	4				
2 x 4 ³	3-5/8"						15	4	15	15	13				
2 x 4	3-1/2"						4	4	15	4	13	15	13		
2 × 3	2-1⁄2"										10		10	8.9	8.0
2 × 2 ³	I-5/8"												7.1	6.5	6.1
2 × 2	-½"												6.6	6.1	5.7
2 x I	3⁄4"														3.3
Product R-Value		R-49	R-38	R-38C	R-30	R-30C	R-25	R-22	R-21	R-20	R-19	R-15	R-13	R-II	R-8
Label Thickness		4"	12"	10-1/4"	9-1⁄2"	8-1/4"	8"	6-¾"	5-1⁄2"	5-1/2"	6-1⁄4"	3-1/2"	3-1/2"	3-1/2"	2-1⁄2"

I. Minimum dressed lumber thickness per U. S. Dept. of Commerce / NIST publication PS 20-10. Notes:

2. Above listing for information only; some products will resist compression into framing cavities and deform sheathing.

3. Metal framing.

Please contact 419-248-6557 for additional information. Email: gettech@owenscorning.com

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