

Building Insulation Compressed R-value Chart

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 Size	Cavity Depth	Insulation R-Values When Compressed In Framing Cavity											
2 × 12	11 1/4"	37	38										
2 × 10	9 1/4"	32	35	28									
2 × 8	7 1/4"	27	29	25	27	24							
2 × 6	5 ½"			21	22	20	19	21	18				
2 × 4	3 ½"						14	15	13	15	13	- 11	
2 × 3	2 ½"									- 11	10	8.9	8.0
2 × 2	1/2"										6.6	6.1	5.7
2 x I	3/4"												3.3
Product R-Value		R-38	R-38C	R-30	R-30C	R-25	R-22	R-21	R-19	R-15	R-13	R-II	R-8
Label Thickness		12"	10 1/4"	9 ½"	8 1/4"	8"	6 3/4"	5 ½"	6 1/4"	3 ½"	3 ½"	3 ½"	2 ½"

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

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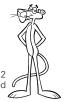


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^{2.} Above listing for information only; some products will resist compression into framing cavities.