

## 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											
		R-38	R-38C	R-30	R-30C	R-25	R-22	R-21	R-19	R-15	R-13	R-11	R-8
2 × 12	11 ¼"	37	38										
2 × 10	9 ¼"	32	35	28									
2 × 8	7 ¼"	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 ½"										6.6	6.1	5.7
2 × 1	¾"												3.3
<b>Product R-Value</b>		R-38	R-38C	R-30	R-30C	R-25	R-22	R-21	R-19	R-15	R-13	R-11	R-8
<b>Label Thickness</b>		12"	10 ¼"	9 ½"	8 ¼"	8"	6 ¾"	5 ½"	6 ¼"	3 ½"	3 ½"	3 ½"	2 ½"

Notes: 1. Minimum dressed lumber thickness per U.S. Dept. of Commerce/NIST publication PS 20-10.

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

Please contact 419-248-6557 for additional information. Email: [gettech@owenscorning.com](mailto:gettech@owenscorning.com)

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ONE OWENS CORNING PARKWAY  
TOLEDO, OHIO 43659  
**1-800-GET-PINK®**  
[www.owenscorning.com](http://www.owenscorning.com)

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