

## Wood Structural Panel R-values

### Oriented Strand Board (OSB)

The thermal resistance, or R-value (in ft<sup>2</sup> - hr - °F / BTU), of OSB panels is listed below. Thicker panels have more insulating value; therefore R-values increase with increasing panel thickness. These values are listed in Table 2 of the Structural Board Association's "OSB in Wood Frame Construction," (U.S. Edition 1996/97).

### Plywood

The thermal resistance, or R-value (in ft<sup>2</sup> - hr - °F / BTU), of plywood panels is listed below. Thicker panels have more insulating value; therefore R-values increase with increasing panel thickness. These values are listed in Chapter 25, Table 4 of the 2001 ASHRAE Handbook published by the American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE).

OSB thickness (inch)	R-value
3/8	0.45
7/16	0.51
1/2	0.62
5/8	0.74
3/4	0.91

Plywood thickness (inch)	R-value
1/4	0.31
3/8	0.47
15/32	0.59
1/2	0.62
19/32	0.74
5/8	0.78
23/32	0.90
3/4	0.94
7/8	1.09
1	1.25
1-1/8	1.41