Appendix D  
R-value Charts

<table>
<thead>
<tr>
<th>Construction Materials</th>
<th>¼&quot;</th>
<th>⅛&quot;</th>
<th>⅜&quot;</th>
<th>⅝&quot;</th>
<th>⅞&quot;</th>
<th>⅝&quot;</th>
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<tbody>
<tr>
<td>Plywood (Douglas fir)</td>
<td>0.31</td>
<td>0.47</td>
<td>0.62</td>
<td>0.77</td>
<td>0.93</td>
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<tr>
<td>Oriented strand board (OSB)</td>
<td>0.31</td>
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<td>0.62</td>
<td>0.78</td>
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<tr>
<td>Asbestos-cement board</td>
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<tr>
<td>Particle board (underlayment)</td>
<td>0.17</td>
<td>0.33</td>
<td>0.49</td>
<td>0.66</td>
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<td>Vinyl</td>
<td>0.20</td>
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<tr>
<td>Linoleum (uninsulated)</td>
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<td>Linoleum (insulated)</td>
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<td>Ceramic tile</td>
<td>0.23</td>
<td>0.34</td>
<td>0.45</td>
<td>0.57</td>
<td>0.68</td>
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<tr>
<td>Cork tile</td>
<td>0.28</td>
<td>0.56</td>
<td>0.84</td>
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<tr>
<td>Limestone</td>
<td>0.38</td>
<td>0.50</td>
<td>0.63</td>
<td>0.76</td>
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<tr>
<td>Quarried stone</td>
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<td>0.50</td>
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<td>Marble</td>
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<td>Brick</td>
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<td>0.50</td>
<td>0.63</td>
<td>0.76</td>
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<td>Ash</td>
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<td>0.59</td>
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<td>Cherry</td>
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<td>0.46</td>
<td>0.58</td>
<td>0.69</td>
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<tr>
<td>Elm</td>
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<td>0.45</td>
<td>0.56</td>
<td>0.67</td>
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<tr>
<td>Redwood</td>
<td>0.51</td>
<td>0.68</td>
<td>0.84</td>
<td>1.01</td>
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<tr>
<td>Maple</td>
<td>0.35</td>
<td>0.46</td>
<td>0.58</td>
<td>0.69</td>
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<tr>
<td>Oak</td>
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<td>0.45</td>
<td>0.56</td>
<td>0.67</td>
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<td>Walnut</td>
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<td>0.45</td>
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<tr>
<td>Douglas fir</td>
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<td>0.53</td>
<td>0.66</td>
<td>0.80</td>
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<td>Southern pine</td>
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<td>0.50</td>
<td>0.62</td>
<td>0.75</td>
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<tr>
<td>Spruce</td>
<td>0.51</td>
<td>0.68</td>
<td>0.84</td>
<td>1.01</td>
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<tr>
<td>Floating wood floor pad</td>
<td>0.20</td>
<td>0.40</td>
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<table>
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<td>Commercial glue down</td>
<td>0.60</td>
<td>0.90</td>
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<tr>
<td>Acrylic level loop</td>
<td>1.04</td>
<td>1.56</td>
<td>2.08</td>
<td>2.60</td>
<td>3.12</td>
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<tr>
<td>Acrylic plush</td>
<td>0.83</td>
<td>1.25</td>
<td>1.66</td>
<td>2.08</td>
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<tr>
<td>Polyester plush</td>
<td>0.96</td>
<td>1.44</td>
<td>1.92</td>
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<tr>
<td>Nylon saxon</td>
<td>0.88</td>
<td>1.32</td>
<td>1.76</td>
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<td>Nylon shag</td>
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<td>0.81</td>
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<tr>
<td>Wool plush</td>
<td>1.10</td>
<td>1.65</td>
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<tbody>
<tr>
<td>Rubber (solid)</td>
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<td>0.62</td>
<td>0.78</td>
<td>0.93</td>
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<tr>
<td>Rubber (waffled)</td>
<td>0.62</td>
<td>0.93</td>
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<td>1.55</td>
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<td>Hair and jute</td>
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<td>1.47</td>
<td>1.96</td>
<td>2.45</td>
<td>2.94</td>
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<tr>
<td>Prime urethane (2-lb. density)</td>
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<td>1.62</td>
<td>2.16</td>
<td>2.70</td>
<td>3.24</td>
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<tr>
<td>Bonded urethane (4-lb. density)</td>
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<td>1.56</td>
<td>2.08</td>
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<td>1.65</td>
<td>2.20</td>
<td>2.75</td>
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**Note:** The R-values depicted in this chart are representative and may vary by manufacturer. For specific R-values, check with the appropriate floor covering manufacturer.