

# TECTUM® COMPOSITE ROOF DECK LEED® 2009 OVERVIEW

Theme	Credit	LEED 2009 Credit	Points	Armstrong Ceilings Contribution																								
Energy Credits	EA Prerequisite 2	<b>Minimum Energy Performance</b>	Required	Incorporate Tectum Composite Roof Deck panels in your building design to provide thermal performance with R values ranging from 6 to 44 (depending on thickness).																								
	EA Credit 1	<b>Optimize Energy Performance</b>	Dependent on reduction	<p><b>Option 1:</b> Whole-building energy simulation  <b>Option 2:</b> Prescriptive compliance: ASHRAE 50% Advanced Energy Design Guide</p> <p><b>TECTUM® COMPOSITE THERMAL PERFORMANCE</b></p> <table border="1"> <thead> <tr> <th>R-Value</th> <th>NS</th> <th>III &amp; III P</th> <th>E &amp; E-N</th> <th>V</th> </tr> </thead> <tbody> <tr> <td>Up to 6</td> <td>•</td> <td>•</td> <td>•</td> <td>•</td> </tr> <tr> <td>Up to 32</td> <td></td> <td>•</td> <td>•</td> <td>•</td> </tr> <tr> <td>Up to 40</td> <td></td> <td>•</td> <td>•</td> <td></td> </tr> <tr> <td>Up to 44</td> <td></td> <td>•</td> <td></td> <td></td> </tr> </tbody> </table>	R-Value	NS	III & III P	E & E-N	V	Up to 6	•	•	•	•	Up to 32		•	•	•	Up to 40		•	•		Up to 44		•	
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Regional Materials	MRc5	<b>Regional Materials</b> (Extracted, manufactured and purchased within 500 miles)	1–2 pts	<p>ARMSTRONG MANUFACTURING LOCATIONS</p> <p><b>Option 1:</b> Tectum products contribute if manufactured in a radius of 500 miles. Tectum products are manufactured in Newark, OH.  <b>Option 2:</b> Additional contribution to 2nd point if extracted, harvested and manufactured within 500 miles. Obtain % contribution by raw material in the Armstrong Ceilings LEED Calculator.</p>																								
Acoustics	EQp3, EQc9 Schools EQc2 Healthcare	<b>Acoustical Performance</b>	1 pt	<b>Reverberation Time:</b> Tectum panels contribute to reduction in reverb time by absorbing sound. Tectum Roof Deck panels provide an NRC of 0.55 to 0.80 depending on panel thickness. Tectum roof deck panels help to meet ANSI S12.60 Acoustical Performance Criteria, Design Requirements, and Guidelines for Schools.																								
Indoor Air Quality	EQc10 Schools	<b>Mold Prevention</b>	1 pt	Tectum products do not support the growth of mold or bacteria. Tested per ASTM D3273, three Tectum product samples scored a 10, 9 & 9 out of a possible 10.																								
Maintenance	Innovation Credit	<b>Low Impact Cleaning &amp; Maintenance Policy</b>	1 pt	Tectum products contribute favorably to this strategy as they are extremely abuse-resistant and intended for life-of-the-building service.																								

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