

# TECTUM® I 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® roof panels in your building design to provide thermal performance with R values ranging from 3.68 to 6.43 (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® I THERMAL PERFORMANCE</b></p> <table border="1"> <thead> <tr> <th>Panel Thickness</th> <th>R-Value</th> <th>Weight</th> </tr> </thead> <tbody> <tr> <td>PSF</td> <td></td> <td></td> </tr> <tr> <td>2"</td> <td>3.68</td> <td>3.7</td> </tr> <tr> <td>2-1/2"</td> <td>4.56</td> <td>4.7</td> </tr> <tr> <td>3"</td> <td>6.43</td> <td>6.2</td> </tr> </tbody> </table>	Panel Thickness	R-Value	Weight	PSF			2"	3.68	3.7	2-1/2"	4.56	4.7	3"	6.43
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Recycling Program	MRC2	<b>Construction Waste Management</b>	1-2 pts	<p>Tectum products are manufactured and cut to size at the factory, reducing or eliminating field cuts and waste at the site. Tectum products are shipped without the need for boxing and minimal, if any, crating, reducing packaging for minimal site waste.</p> <p>Tectum products are biodegradable and can be ground up for soil amendment, eliminating landfill needs.</p>														
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>														
Rapidly Renewable	MRC6	<b>Rapidly Renewable Materials</b>	1-2 pts	<p>Tectum Products contain 44 percent, by weight, trembling aspen (Populus Tremuloides) wood fiber. The growth time for Populus Tremuloides is 10–15 years, for pulping and stranding. Populus Tremuloides reproduces by “suckering” of stumpage after clear cutting. No planting is required. Saplings sucker within a few months after cutting, with new forest stands forming within 2–5 years. Typical growth is 5–7 feet per year for the first 3–5 years.</p> <p>Obtain % calculation from Armstrong Ceilings LEED Calculator.</p>														

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<b>Forest Stewardship Council (FSC®)</b>	MRC7	<b>Certified Wood</b>	1 pt	Tectum products are made from Wisconsin aspen wood fibers, harvested by Johnson Timber Corporation and shredded by American Excelsior Company. 44% of Tectum panels are wood excelsior and are considered FSC Mix Credit.  Tectum Inc. Chain-of-Custody #: RA-COC-007078 American Excelsior Chain-of-Custody #: RA-COC-007186 Johnson Timber Chain-of-Custody #: SW-COC-002249
<b>Acoustics</b>	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.
<b>Indoor Air Quality</b>	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.
<b>Maintenance</b>	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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