

TECTUM® I ROOF DECK LEED® v4 OVERVIEW

Theme	Credit	LEED Credit	Points	Armstrong Ceilings Contribution															
Energy Credits	EA Prerequisite EA Credit	Minimum Energy Performance Optimize Energy Performance	Required Dependent on reduction	<p>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).</p> <p>Option 1: Whole-building energy simulation Option 2: Prescriptive compliance: ASHRAE 50% Advanced Energy Design Guide</p> <p>TECTUM® I THERMAL PERFORMANCE</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	6.2
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Recycling Program	MR Prereq MR Credit	Construction & Demolition Waste Management Planning Now a Prerequisite – ID at least 5 materials Construction & Demolition Waste Management	MRp Required MRc up to 2 pts	<p>MRp2: Add Tectum® Products to Waste Management plan to increase diversion %.</p> <p>MRc6, Option 1: Tectum products are biodegradable and can be upcycled into soil amendment.</p> <p>MRc6, Option 2: Reduction in Total Waste: 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>															
Regional Materials	MR Credits	Regional Materials (Extracted, manufactured and purchased within 100 miles)	200% base contributing cost	<p>ARMSTRONG CEILING MANUFACTURING LOCATIONS Tectum products contribute if manufactured in a radius of 100 miles. Tectum products are manufactured in Newark, OH.</p> <p>Extraction locations. Obtain % by raw material in the Armstrong Ceilings LEED Calculator.</p> <p>Use Armstrong Ceilings LEED calculator to calculate mileage for manufacture and extraction locations; Product meeting 100 mile criteria is valued at 200% of base cost.</p>															
Life Cycle Impacts & Environmental Product Declarations	MR Credit	Building Life Cycle Reduction Interiors Life Cycle Impact Reduction	BD&C – 1-2 ID&C – 1-2	<p>ARMSTRONG® PRODUCT EPDs</p> <p>BD&C, Option 4: Provide EPD or Embodied Energy (EE) for Whole Building LCA calculations.</p>															

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Life Cycle Impacts & Environmental Product Declarations	MR Credit	Building Disclosure and Optimization – Environmental Product Declaration	BD&C – 1-2 ID&C – 1-2	ARMSTRONG® PRODUCT EPDs Option 1: Tectum Third-Party Certified, TYPE III EPDs; www.armstrongbuildingsolutions.com/tectum .
Corporate Sustainability and Raw Material Sourcing	MR Credit	Building Disclosure and Optimization – Sourcing of Raw Materials	BD&C – 1-2 ID&C – 1-2	ARMSTRONG COMMITMENT TO SUSTAINABILITY Option 1: Armstrong self-declared sustainability report (1/2 value) www.armstrongceilings.com/sustainability Option 2: Leadership Extraction Practices: Tectum products contribute to these areas: Biobased content; Certified Wood. 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
Material Ingredient Disclosure	MR Credit	Building Disclosure and Optimization – Material Ingredients	BD&C – 1-2 ID&C – 1-2	HEALTH PRODUCT DECLARATIONS & DECLARE™ Option 1: Material Ingredient Reporting: Tectum Health Product Declaration or Declare label qualifies for Mfr Inventory (1 Pt)
Acoustics	EQc	Acoustic Performance (now all Rating Systems)	BD&C – 2 ID&C – 2	Reverberation time – Tectum® panels contribute to reduction in reverb time by adding absorption. Schools must meet ANSI Std. S12-60. Tectum roof deck panels provide an NRC 0.55 to 0.80 (thickness dependent). Tectum panels help to meet ANSI S12.60 Acoustical Performance Criteria, Design Requirements, and Guidelines for Schools.

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