

# LEED® v4 Overview



24/7 access to LEED® information and documentation you need in the design or submittal process for any Armstrong® Ceiling and Wall System

Theme	Credit	LEED Credit	Points	Armstrong Ceilings Contribution
<b>Material and Resources</b>				
<b>Recycling Program</b>	MRp; MRc	<b>Construction Waste Management</b> Now a Prerequisite – ID at least 5 materials	MRp Required MRc 1-2	<p>ARMSTRONG CEILING RECYCLING PROGRAM</p> <p><b>MRp2:</b> Add the <a href="#">Armstrong Ceiling Recycling Program</a> to the Waste Management Plan to provide a solution to divert materials from the waste stream, increasing diversion percentage. Ceilings qualify as 1 nonstructural material. Available throughout the US and Canada.</p> <p><b>MRc6, Option 1:</b> Ceilings qualify as a material stream to meet 50-75% diversion.</p> <p><b>MRc6, Option 2: Reduction in Total Waste:</b> Specify products with minimal waste; show ceiling waste reduction over drywall installations.</p>
<b>Regional Materials</b>	MR credits	<b>Regional Materials</b> (Extracted, manufactured and purchased w/ in 100 miles)	200% base contributing cost	<p>ARMSTRONG CEILING MANUFACTURING LOCATIONS</p> <p>Armstrong World Industries has the largest number of ceiling and suspension plant locations in North America. Use the <a href="#">Armstrong Ceilings LEED® Calculator</a> to calculate mileage for manufacture and extraction locations; product meeting 100 mile criteria is valued at 200% of base cost.</p>
<b>Life Cycle Impacts &amp; Environmental Product Declarations</b>	MRc BD&C MRc ID&C	<b>Building Life Cycle Reduction</b> <b>Interiors Life Cycle Impact Reduction</b>	BD&C – 3 ID&C – 1-3	<p>ARMSTRONG PRODUCT CARBON FOOT PRINT</p> <p><b>BD&amp;C, Option 4:</b> Use Armstrong third party-certified <a href="#">Product EPD</a> or Embodied Energy (EE) for Whole Building LCA Calculations. Armstrong products are in the EC3 Tool.</p> <p>ARMSTRONG CEILING-2-CEILING™ PRODUCTS</p> <p><b>ID&amp;C, Option 1 – Reuse of nonstructural elements:</b> Specify Armstrong Ceiling-2-Ceiling™ products – new ceilings made of reclaimed ceilings that are returned to our recycling program with a high level of post-consumer recycled content.</p> <p>ARMSTRONG ACCESSIBLE CEILING SYSTEMS</p> <p><b>ID&amp;C, Option 3 – Design for Flexibility:</b> Specify any of a wide range of both upward and downward accessible Armstrong ceilings, in mineral fiber, fiberglass, metal and wood substrates.</p> <p>All Sustain® Products contribute to this credit.</p>

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<b>Life Cycle Impacts &amp; Environmental Product Declarations</b>	MRC BD&C MRC ID&C	<b>Building Disclosure and Optimization – Environmental Product Declaration</b>	BD&C – 1 ID&C – 1-2	<p>ARMSTRONG® PRODUCT EPDs</p> <p><b>BD&amp;C and ID&amp;C, Option 1:</b> Use Armstrong Type III Product EPDs which conform to ISO 14025 and EN 15804 or ISO 21930 and have at least a cradle to gate scope.</p> <p><b>ID&amp;C, Option 2:</b> Use Armstrong EPDs which show reduction in the total ceiling system and suspension system impact.</p>
<b>Corporate Sustainability and Raw Material Sourcing</b>	MRC BD&C MRC ID&C	<b>Building Disclosure and Optimization – Sourcing of Raw Materials</b>	BD&C – 1-2 ID&C – 1-2	<p>ARMSTRONG COMMITMENT TO SUSTAINABILITY</p> <p><b>BD&amp;C, Option 1:</b> Use the Armstrong self-declared sustainability report (1/2 value) located on our corporate website: <a href="http://www.armstrongceilings.com/sustain">www.armstrongceilings.com/sustain</a></p> <p>ARMSTRONG RECYCLING PROGRAM</p> <p><b>BD&amp;C, Option 2 – Leadership Extraction Practices: Extended Producer Responsibility:</b> Add the <a href="#">Armstrong Ceiling Recycling Program</a> to the Waste Management Plan to provide a solution to divert materials from the waste stream, increasing diversion percentage.</p> <p>ARMSTRONG BIOBASED PRODUCTS</p> <p><b>BD&amp;C, Option 2 – Leadership Extraction Practices: Biobased Products:</b> Specify Armstrong® mineral fiber panels that contain <a href="#">plant-based binders</a>, biobased alternatives to petroleum-based binders.</p> <p>ARMSTRONG WOOD CEILINGS &amp; WALLS</p> <p><b>BD&amp;C, Option 2 – Leadership Extraction Practices: Wood:</b> Specify Armstrong FSC® certified (92% mixed) composite wood ceilings and walls.</p> <p>ARMSTRONG HIGH RECYCLED CONTENT CEILINGS</p> <p><b>BD&amp;C, Option 2 – Leadership Extraction Practices: Recycled Content:</b> Specify Armstrong mineral fiber, fiberglass and wood ceilings which have a recycled content from 50%-95%, in addition to high recycled suspension systems, drywall grid and framing systems.</p> <p>All Sustain® Products contribute to this credit.</p>
<b>Material Ingredient Disclosure</b>	MRC BD&C MRC ID&C	<b>Building Disclosure and Optimization – Material Ingredients</b>	BD&C – 1-2 ID&C – 1-2	<p>HEALTH PRODUCT DECLARATIONS &amp; DECLARE®</p> <p><b>BD&amp;C, Option 1: Material Ingredient Reporting:</b> Health Product Declarations and Declare® labels qualify for Manufacturer Inventory (1 Pt).</p> <p>All Sustain Products contribute to this credit. All products and accompanying certifications are listed on our Transparency site <a href="http://www.armstrongceilings.com/transparency">www.armstrongceilings.com/transparency</a>; and on Mindful Materials.</p>

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<b>Indoor Environmental Quality</b>				
<b>VOC Emissions</b>	EQc	<b>Low Emitting Materials</b>	BD&C – 1-3 ID&C – 1-3	<p><b>ARMSTRONG LOW EMISSIONS</b> All Armstrong mineral fiber and Optima® PB acoustical ceilings meet <u>General Emissions Evaluation per the CDPH standard; v1.1 2010.</u></p> <p>WoodWorks® composite products are specified to be CARB II and TSCA Title VI compliant. ULEF options are available.</p> <p>All Sustain® Products contribute to this credit. All products and accompanying certifications are listed on our Transparency site <a href="http://www.armstrongceilings.com/transparency">www.armstrongceilings.com/transparency</a>; and on Mindful Materials.</p> <p>Improve indoor air quality with the Armstrong VidaShield UV24™ System, an unobtrusive in-room UV-C air cleaner.</p>
<b>Lighting</b>	EQc	<b>Interior Lighting – Lighting Quality</b>	BD&C – 1 ID&C – 1	<p><b>ARMSTRONG HIGH LIGHT-REFLECTANT CEILINGS AND WALLS</b> <b>BD&amp;C, Option 2:</b> Choose Armstrong Hi-LR ceilings (LR.85) or walls (.60) to aid in extending daylighting into the space.</p> <p><b>BD&amp;C, Option 2:</b> Specify Armstrong® TechZone® lighting partners and LED lighting as another option to satisfy LEED® criteria.</p>
<b>Acoustics</b>	EQc	<b>Acoustic Performance (now all Rating Systems)</b>	BD&C – 2 ID&C – 2	<p><b>ARMSTRONG ACOUSTIC CEILINGS &amp; WALLS</b> <b>BD&amp;C – 2, Option 2:</b> Choose Armstrong Wall Panels to add to drywall for a higher combined STC value, significantly reducing <u>Sound Transmission.</u></p> <p><b>BD&amp;C – 2, Option 2:</b> Armstrong acoustic ceilings absorb sound, contributing to the reduction of <u>Reverberation Time</u> and increased speech intelligibility. Schools must meet ANSI Standard S12-60, contributing to the reduction of reverberation time.</p> <p>Look for Total Acoustics® products. <a href="http://www.armstrongceilings.com/totalacoustics">www.armstrongceilings.com/totalacoustics</a></p>
<b>Enhanced Indoor Air Quality Strategies</b>				<p>Improve indoor air quality with the Armstrong VidaShield UV24™ System, an unobtrusive in-room UV-C Air Cleaner. The system includes shielded ultraviolet light and filtration which deactivate pathogens and reduce the risk of indoor air transmission of viruses.</p> <p>Seal the ceiling plane with AirAssure® ceiling panels that provide improved Indoor Environmental Quality (IEQ) for occupant comfort, well-being and cleaner air.</p>

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