

[Between us, ideas become reality.]®

ARMSTRONG SUSTAINABLE DESIGN INFORMATION SHEET FOR WOODWORKS® EKOS™ WALLS

SECTION I. PRODUCT IDENTIFICATION

Product Name: Armstrong WoodWorks Ekos Wall Systems

SECTION II. ENVIRONMENTAL POLICY

Our overall goal is to make sure our activities as a corporation are in harmony with the natural world around us.

The Armstrong policy on the environment embodies these aims:

1. To exercise care in the selection, use and conservation of energy and raw materials, especially natural resources, to assure that we are not wasting such resources.
2. To make use of research and production technology to provide for the environmental safety in workplaces and communities and to seek to reduce risk to the earth, its waters and atmosphere.

3. To be prepared for emergencies and to act promptly and responsibly to protect people and the environment should accidents or incidents occur.
4. To make products that are environmentally safe in their intended use by our customers and consumers, and to accompany them with adequate information for their proper use, maintenance and disposal.
5. To reduce waste, to make use of recycling in all our operations, and to take care that we dispose of unneeded materials in an environmentally appropriate manner.

SECTION III.

This credit summary is an Impact Analysis of Armstrong WoodWorks Ekos Wall Systems pertaining to the LEED® Rating System. The credits apply to LEED for New Construction (LEED-NC), LEED for Existing Buildings (LEED-EB), and LEED for Commercial Interiors (LEED-CI).

MATERIAL AND RESOURCES

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MR Credit 2.1, 2.2 - CONSTRUCTION WASTE MANAGEMENT - (Divert 50% & 75% from disposal)

Intent: Divert construction, demolition, and land clearing debris from disposal in landfills and incinerators. Redirect recovered resources back to the manufacturing process. Redirect reusable materials to the appropriate sites.

Requirement: Recycle and/or salvage at least 50% or 75% (by weight or volume) of non-hazardous construction and demolition debris. Develop and implement a construction waste management plan quantifying material diversion goals.

Armstrong is the first ceiling manufacturer with a closed-loop recycling program which redirects recovered ceilings back to the manufacturing process. Armstrong WoodWorks Ekos Wall Systems are being integrated into this program. Please contact your Armstrong representative or TechLineSM for more details on how this program can help you meet this requirement. Walls or Ceilings must be combined with other items to achieve this credit.



<p>MATERIAL AND RESOURCES</p> <p>.....</p> <p>MR Credit 4.1, 4.2 – RECYCLED CONTENT (10% & 20% post-consumer + 1/2 pre-consumer)</p>	<p>Intent: Increase the demand for building products that incorporate recycled content materials, thereby reducing impacts resulting from extraction and processing of virgin materials.</p> <p>Requirement: Use materials with recycled content such that the sum of the post-consumer recycled content plus one-half of the pre-consumer (post-industrial) content constitutes at least 10% or 20% of the total value of the materials in the project.</p> <p>Armstrong WoodWorks Ekos Wall Systems contain 78% recycled content. See chart at bottom for details. Techline can supply the appropriate documentation needed for your LEED submittal packet. Armstrong products must be aggregated with all other recycled content materials in order to achieve this credit.</p>
<p>MR Credit 5.1, 5.2 REGIONAL MATERIALS</p> <p>LEED NC – 10% Extracted, Processed & Manufactured Regionally</p> <p>LEED CI – 20% Manufactured Regionally</p>	<p>Intent: Increase demand for building materials and products that are extracted and manufactured within the region, thereby supporting the use of indigenous resources and reducing the environmental impacts resulting from transportation.</p> <p>Requirement: LEED NC– Use building products that have been extracted, harvested or recovered, as well as manufactured, within 500 miles of the project site for minimum of 10% or 20% (based on cost) of the total materials value. If only a fraction of the product is extracted, harvested or recovered and manufactured locally, then only that percentage (by weight) shall contribute to the regional value.</p> <p>LEED CI– Use a minimum of 20% of all construction and Division 12 (furniture) materials and products that are manufactured regionally within a radius of 500 miles.</p> <p>Contact TechLine to provide a regional materials documentation for these products for MR Credit 5.1, 5.2 LEED NC and MR Credit 5.2 for LEED CI.</p>

<p>INDOOR ENVIRONMENTAL QUALITY</p> <p>.....</p> <p>EQ Credit 4.4 – LOW-EMITTING MATERIALS</p> <p>LEED NC – Composite Wood & Agrifiber Products</p> <p>LEED CI – Composite Wood & Laminate Adhesives</p>	<p>Intent: Reduce the quantity of indoor air contaminants that are odorous, potentially irritating and/or harmful to the comfort and wellbeing of installers and occupants</p> <p>Requirement: Composite wood and agrifiber products, including core materials, must contain no-added urea-formaldehyde resins. Laminate adhesives used to fabricate on-site and shop-applied assemblies containing these laminate adhesives must contain no added urea formaldehyde.</p> <p>Armstrong WoodWorks Ekos Wall systems meet these requirements. In addition, these products meet and exceed the State of Washington and California Section 01350 requirements for low emissions with no detectible formaldehyde emissions. For additional information, refer to "Formaldehyde Emissions & Interior Spaces – What You Need To Know About Choosing Wood Wall Systems," CS-3839.</p>
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USGBC LEED Credits	Material and Resources MR 2.1 & 2.2, & MR 4.1 & 4.2						Indoor Environmental Quality EQ 4.4		Possible Innovation Credits	
Armstrong Wall Product	Recycling Program	Total Recycled Content	Total Post-Industrial	Total Post-Consumer	Density	Regional Materials	No-Added Urea-Formaldehyde	VOC Meets 01350*	NRC	STC
Ekos Perforated Wall Panels	✓	78%	77%	1%	1.6 lbs/sf	Verify through TechLine	✓	✓	0.45	43
Ekos Unperforated Wall Panels	✓	78%	77%	1%	1.6 lbs/sf	Verify through TechLine	✓	✓	n/a	43

* VOC - Please refer to "The Basics of Formaldehyde When Choosing Wood Wall Systems" (CS-3839) for more details. These products meet Section 01350 CA and "Collaborative for High Performance Schools (CHPS)". Contact Armstrong TechLine for more information.

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