



Armacell Product Contributions to LEED® Performance Criteria

Developed by the U.S. Green Building Council® (USGBC®), Leadership in Energy and Environmental Design (LEED) is an internationally recognized green building certification system that promotes an integrated whole-building design approach to the design, construction and operation of high performance green buildings.

LEED certification is available for all building types including: LEED New Construction and Major Renovation™, LEED for Existing Buildings: Operations & Maintenance™, LEED for Commercial Interiors™, LEED for Core & Shell™, LEED for Healthcare™, LEED for Retail: New Construction™, LEED for Retail: Commercial Interiors™ and LEED for Schools™.



LEED is a point-based system where building projects earn LEED points for satisfying specific green-building criteria. Within each of the seven LEED credit categories, projects must satisfy particular pre-requisites and earn points. The five categories include Sustainable Sites (SS), Water Efficiency (WE), Energy and Atmosphere (EA), Materials and Resources (MR) and Indoor Environmental Quality (IEQ). An additional category, Innovation in Design (ID), addresses sustainable building expertise as well as design measures not covered under the five environmental categories. Learn more about LEED at www.usgbc.org/LEED.

LEED Score Card on Back »



Armacell Product Contributions for LEED Projects

While LEED credit requirements cover the performance of materials in aggregate, not the performance of individual products or brands, specifying Armacell elastomeric insulation products can contribute toward earning points needed to achieve various levels of LEED project certification.

Armacell Insulation System Solutions:

HVAC Duct Liners/Wrap – Armaflex®, Armaflex® SA, Coilflex®

Plumbing – Armaflex® Tubes, Sheets & Rolls, Armaflex® SS Self-Seal, Armaflex® W White, Armaflex® Fabricated Fittings, Solaflex™ Solar/High-Temperature

Accessories – Armafix™ Pipe Hanger Fittings, Armaflex® 520 BLV Low-VOC Contact Adhesive, Armaflex® Low-VOC Spray Contact Adhesive, Armaflex® WB Finish UV/Weather-Resistant Protective Coating, Armaflex® Tape

LEED Credit Category	LEED Requirements	Armacell Product Contribution
Energy and Atmosphere (EA)		
EA Prerequisite 2 Minimum Energy Performance	Energy savings over baseline ≥10% for new construction ≥ 5% for major renovations	Armacell flexible elastomeric insulation products can contribute towards energy savings for HVAC, plumbing & refrigeration systems
EA Credit 1 (1-19 Points) Optimize Energy Performance	Project Design Team completes energy model or follows applicable design guide	Armacell flexible elastomeric insulation products can contribute towards greater levels of energy efficiency and savings
Indoor Environmental Quality (IEQ)		
IEQ Prerequisite 3 (Schools) Minimum Acoustical Performance	HVAC systems not to exceed 45 dBA, Reverberation Times (RT) in core learning spaces, per S12.60-2002	Armaflex® and Coilflex® Duct Liners most effectively manage problematic low to mid-frequency HVAC noise – 250 Hz to 1000 Hz
IEQ Credit 3.2 (NC, Schools / 1 Point) Construction IAQ Management Plan – Before Occupancy	Building flush-out or air quality testing; confirm contaminants are below allowable levels	Armaflex® and Coilflex® Duct Liners are fiber-free, non-eroding, formaldehyde-free and low-VOC with smooth surface facing air stream
IEQ Credit 4.1 (1 Point) Low-Emitting Materials – Adhesives and Sealants	Adhesives must comply with SCAQMD Rule 1168 or GREENGUARD Children & Schools Certification SM	Armaflex® 520 BLV Low-VOC Contact Adhesive and Armaflex Low-VOC Spray Contact Adhesive meet SCAQMD Rule 1168, and are GREENGUARD Children & Schools Certified SM
IEQ Credit 7 / 7.1 (1 Point) Thermal Comfort – Design	HVAC system design to comply with ASHRAE 55-2004	Armaflex® and Coilflex® Duct Liners contribute to comfortable thermal environments
IEQ Credit 9 (Schools, 1 Point) Enhanced Acoustical Performance	HVAC systems not to exceed 40 dBA in core learning spaces, per ANSI S12.60-2002	Armaflex® and Coilflex® Duct Liners most effectively manage problematic low to mid-frequency HVAC noise - 250 Hz to 1000 Hz
IEQ Credit 10 (Schools, 1 Point) Mold Management	<ul style="list-style-type: none"> Achieve IEQ c3.1, c7.1, c7.2 Design HVAC system to limit RH to 60% or less at all times Ongoing IAQ management program per EPA standard 	All Armacell duct and pipe insulation products contain Microban® “built-in” EPA-registered antimicrobial protection; designed to last the life of the insulation
Innovation in Design (ID)		
ID Credit 1 (1 Point) Innovation in Design – Low-Emitting Materials, Insulation (GREENGUARD Children & Schools Certification)	Credit can be achieved through any combination of Innovation in Design and Exemplary Performance	GREENGUARD Children & Schools Certified as a low-emitting product (all insulation, low-VOC contact adhesives)

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