

LEED® v4



The Leadership in Energy & Environmental Design (LEED) Green Building Rating System™ is a voluntary, consensus-based standard for developing high-performance, sustainable buildings. Launched by the U.S. Green Building Council (USGBC), LEED is an integrated design approach that addresses the potentials of water conservation, energy efficiency, renewable energy, material selection and indoor environmental quality.

Garland Product Contributions are based on: **LEED BD+C v4.0 includes:**

- LEED BD+C: New Construction
- LEED BD+C: Core and Shell
- LEED BD+C: Schools
- LEED BD+C: Retail
- LEED BD+C: Data Centers
- LEED BD+C: Warehouses and Distribution Centers
- LEED BD+C: Hospitality
- LEED BD+C: Healthcare

Please contact your local Garland Representative for more information on our sustainable roof systems.

SS	EA	MR	EQ	IN
Credit 2 Protect or Restore Habitat				
Credit 3 Open Space				
Credit 4 Rainwater Management				
Credit 5 Heat Island Reduction				
Prerequisite 2 Min. Energy Performance				
Credit 2 Optimize Energy Performance				
Credit 1 Building Life-Cycle Impact Reduction				
Credit 2 Environmental Product Declaration				
Credit 3 Sourcing of Raw Materials				
Credit 4 Material Ingredients				
Credit 4.1 Low-Emitting Materials				
Credit 1 Innovation				

ROLL GOODS	Post-Consumer Recycled Content	Pre-Consumer Recycled Content	Total LEED Content Credit	SS	EA	MR	EQ	IN
OptiMax®	7%	21%	17%					
OptiMax® FR Mineral	7%		7%					
OptiMax® FR Mineral*	7%		7%		X	X	X	
StressPly®	8%	27%	21%					
StressPly® FR Mineral	5%		5%					
StressPly® E (Environmental)	8%	27%	21%					
StressPly® E FR Mineral (Environmental)	6%	1%	6%					
StressPly® E FR Mineral (Environmental)*	6%	1%	6%		X	X	X	
StressPly® EUV	6%	21%	16%					
StressPly® EUV FR Mineral*	5%		5%		X	X	X	
StressPly® Max	6%	21%	16%					
StressPly® Max FR Mineral*	4%		4%		X	X	X	
StressPly® IV	0.5%	15%	8%					
StressPly® IV UV Mineral*					X	X	X	
StressPly® IV Plus	0.5%	15%	8%					
StressPly® IV Plus UV Mineral*					X	X	X	
StressPly® Plus	8%	15%	15%					
StressPly® Plus FR Mineral	0.3%	5%	2%					
StressPly® Plus FR Mineral*	0.3%	5%	2%		X	X	X	
VersiPly® 40	31%		31%					
VersiPly® 80	8%	27%	21%					
VersiPly® Mineral	6%		6%					
Millennium® Membranes								
BiFlex® Cap		8%	4%					
FlexBase® 80	15%		15%					
FlexBase® Plus 80	15%		15%					
FlexBase® E 80	16%		16%					
StressBase® 80 Membranes		27%	13%					
StressBase® 120 Membranes		24%	12%					
HPR® Tribase Premium	31%		31%					
HPR® Torchbase	6%		6%					
KEE-Stone® FB 60 / FB 60 Flashing					X	X	X	
METAL SYSTEMS	Post-Consumer Recycled Content	Pre-Consumer Recycled Content						
R-Mer Lite®	75%	5%						
R-Mer® Loc	65%	5%						
R-Mer® Shield	65%	5%						
R-Mer® Span	65%	5%						
R-Mer® Wall Pan	65%	5%						
METAL COLORS	Reflectance	Emittance	SRI					
R-Mer Lite® White	0.75	0.84	91		X			
Sierra White Standing Seam	0.72	0.85	88		X			
COATINGS	Reflectance	Emittance	SRI					
Pyramic® ▲	0.84	0.91	106		X			
Rust-Go™ VOC Top Coat ▲	0.88	0.87	111		X			
Solex® ▲	0.88	0.90	111		X			
CPR™ White ▲	0.77	0.86	95		X			
White-Knight®/White-Stallion® ▲	0.80	0.88	100		X			
White-Knight® Plus/White-Stallion® Plus ▲	0.87	0.90	111		X			
White-Star™ (with Mineral) System ▲	0.83	0.88	104		X			
VEGETATIVE								
GreenShield® Systems				X	X	X	X	X
ADHESIVES	VOC g/l							
Green-Lock® Sealant XL ▲	0							
Green-Lock® Structural Adhesive	0							

X These products contribute this prerequisite or credit

■ Contact Garland to learn how our products can contribute the LEED credits at your job site

* Products with Sunburst™ (Bright White) mineral - SRI 89

■ Product has 2.5% biobased content

▲ ENERGY STAR® certified products

LEED® v4 Point Summary

Sustainable Sites (SS)			
Number	Name	Points	Intent of Credit
Credit 2	Protect and Restore Habitat	1-2	1) Conserve existing natural areas. 2) Restore damaged areas. 3) Provide habitat. 4) Promote biodiversity.
Credit 3	Open Space	1	1) Provide exterior open space. 2) Promote environmental and social interaction. 3) Promote passive recreation and physical activities.
Credit 4	Rainwater Management	3	1) Reduce runoff volume. 2) Improve water quality by replicating the natural hydrology and water balance of the site. 3) Based on historical conditions and undeveloped ecosystems in the region.
Credit 5	Heat Island Reduction	1-2	1) Reduce Heat Islands. 2) Minimize effects on microclimates and human and wildlife habitats.

Energy and Atmosphere (EA)			
Number	Name	Points	Intent of Credit
Prerequisite 2	Minimum Energy Performance	Required	1) Reduce the environmental and economic harms of excessive energy use. 1) Achieve a minimum level of energy efficiency for the building and its systems.
Credit 2	Optimize Energy Performance	1	1) Achieve increasing levels of energy performance beyond the minimum standard. 1) Reduce environmental and economic harms associated with excessive energy use.

Materials and Resources (MR)			
Number	Name	Points	Intent of Credit
Credit 1	Building Life-Cycle Impact Reduction	2-4	1) Encourage adaptive reuse and optimize the environmental performance of products and materials.
Credit 2	Environmental Product Declarations	2	1) Encourage the use of products and materials that provide life-cycle information. 2) Encourage the use of products that have environmentally, economically, and socially preferable life-cycle impacts.
Credit 3	Sourcing of Raw Materials	1	1) Encourage the use of products and materials that provide life-cycle information. 2) Encourage the use of products that have environmentally, economically, and socially preferable life-cycle impacts.
Credit 4	Material Ingredients	1	1) Encourage the use of products and materials that provide life-cycle information. 2) Encourage the use of products that have environmentally, economically, and socially preferable life-cycle impacts. 3) Reward raw material manufacturers who produce products verified to have improved life-cycle impacts.

Indoor Environmental Quality (EQ)			
Number	Name	Points	Intent of Credit
Credit 2	Low-Emitting Materials	1-3	1) Reduce concentrations of chemical contaminants that can damage air quality, human health, productivity, and the environment. 2) Provide comfortable zone for people

Innovation (IN)			
Number	Name	Points	Intent of Credit
Credit 1	Innovation	1-2	1) Encourage projects to achieve exceptional or innovative performance.



The Garland Company, Inc.
 3800 East 91st Street
 Cleveland, OH 44105
 Phone: 216-641-7500
 Toll Free: 1-800-321-9336

Garland Canada Inc.
 209 Carrier Drive
 Toronto, Ontario
 Canada, M9W 5Y8
 Phone: 416-747-7995
 Toll Free: 1-800-387-5991

All ™ and ® are trademarks of The Garland Company, Inc. or Garland Canada Inc. unless otherwise specified.
 LEED® is a registered trademark of The US Green Building Council.