Garland's Products that Contribute to LEED®

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 NC 3.0

Please contact your local Garland Representative for more information on our Greenhouse products.

					SS					EA	MR		EQ
					5.1 Protect or Restore Habitat	**5.2** Maximize Open Space	**6.1** Stormwater Design Quality Control	**6.2** Stormwater Design Quality Control	**7.2** Heat Island Effect - Roof	**1** Optimize Energy Performance	**4** Recycled Content	**5** Regional Materials	**4.1** Low-Emitting Materials Adhesives & Sealants
Vegetative													
	GreenShield® Systems				X	X	X	X	X	X	X	X	
Rolled Goods		**Post-Consumer Recycled Content**	**Pre-Consumer Recycled Content**	**Total LEED Content Credit**									
	StressPly®	8%	27%	21%							X	X	
	StressPly® FR Mineral	5%		5%							X	X	
	StressPly® E *(Environmental)*	11%	28%	25%							X	X	
	StressPly® E FR Mineral *(Environmental)*	6%	1%	6%							X	X	
	StressPly® E FR Mineral with Sunburst™ *(Environmental)*	6%	1%	6%					X	X	X	X	
	StressPly® EUV	6%	21%	16%							X	X	
	StressPly® EUV FR Mineral	5%		5%					X	X	X	X	
	StressPly® Max	6%	21%	16%							X	X	
	StressPly® Max FR Mineral	4%		4%					X	X	X	X	
	StressPly® IV	.5%	15%	8%							X	X	
	StressPly® IV Plus	.5%	15%	8%							X	X	
	StressPly® Plus	8%	27%	21%							X	X	
	StressPly® Plus FR Mineral	6%		6%							X	X	
	StressPly® Plus FR Mineral with Sunburst™	6%		6%					X	X	X	X	
	VersiPly® 40	31%		31%							X	X	
	VersiPly® 80	8%	27%	21%							X	X	
	VersiPly® Mineral	6%		6%							X	X	
	Millennium® Membranes		65%	33%							X	X	
	BiFlex® Cap		19%	9.5%							X	X	
	FlexBase® 80	15%		15%							X	X	
	FlexBase® Plus 80	15%		15%							X	X	
	FlexBase® E 80	16%		16%							X	X	
	FlexBase® 120	12%		12%							X	X	
	StressBase® 80 Membranes		27%	13%							X	X	
	StressBase® 120 Membranes		24%	12%							X	X	
	HPR® Tribase Premium	31%		31%							X	X	
Metal Systems	R-Mer Lite®	75%	5%	78%							X	X	
	R-Mer® Lock	40 - 75%	5 - 15%	42.5 - 82.5%							X	X	
	R-Mer® Lock LX	40 - 75%	5 - 15%	42.5 - 82.5%							X	X	
	R-Mer® Seam	40 - 75%	5 - 15%	42.5 - 82.5%							X	X	
	R-Mer® Span	40 - 75%	5 - 15%	42.5 - 82.5%							X	X	
	R-Mer® Wall Pan	40 - 75%	5 - 15%	42.5 - 82.5%							X	X	
Coatings		**Reflectance**	**Emittance**	**SRI**									
	Pyramic®	0.83	0.88	104					X	X		X	
	Rust-Go® VOC Top Coat	0.88	0.87	111					X	X		X	
	Solex®	0.88	0.90	111					X	X		X	
	White-Knight®/White-Stallion®	0.80	0.88	100					X	X		X	
	White-Knight®Plus/White-Stallion® Plus	0.87	0.89	110					X	X		X	
	White-Star™ Surfacing System	0.82	0.83	102					X	X		X	
Metal Colors	R-Mer Lite® White	0.75	0.86	090					X	X	X	X	
	Regal White CR Standing Seam	0.70	0.85	085					X	X	X	X	
	Sierra White CR Standing Seam	0.72	0.85	088					X	X	X	X	
Interior Adhesives		**VOC g/l**											
	Green-Lock® Structural Adhesive	0										X	X

LEED® Points Summary

SS - Reference Number/ Name	Point(s)	Intent of Credit	Statement of Credit
5.1 Protect or Restore Habitat	1	1. Conserve existing natural areas. 2. Restore damaged area. 3. Provide habitat space. 4. Promote biodiversity.	Site Development
5.2 Maximize Open Space	1	1. Provide high ratio of open space, compare to footprint of building 2. Promote biodiversity.	Site Development
6.1 Stormwater Design Quality Control	1	1. Limit disruption of natural hydrology. 2. Reduce impervious cover. 3. Increase on-site infiltration. 4. Manage storm water run-off. 5. Reduce and eliminate water pollution. 6. Eliminate sources of contaminants 7. Remove pollutants from storm water runoff.	Stormwater Design (For reduction of impervious surface): 1. Use alternative surface: Rain garden, vegetated swales and rainwater cycling. 2. Use non-structural surface: Vegetated roof, pervious pavement and grid pavers.
6.2 Stormwater Design Quality Control	1	1. Limit disruption of natural hydrology. 2. Reduce impervious cover. 3. Increase on-site infiltration. 4. Manage storm water run-off. 5. Reduce and eliminate water pollution. 6. Eliminate sources of contaminants 7. Remove pollutants from storm water runoff.	Stormwater Design (For reduction of impervious surface): 1. Use alternative surface: Rain garden, vegetated swales and rainwater cycling. 2. Use non-structural surface: Vegetated roof, pervious pavement and grid pavers.
7.2 Heat Island Effect - Roof	1	1. Reduce heat islands. 2. Minimize impact on micro climate and human and wildlife habitat.	Heat Island Effect

EA - Reference Number/ Name	Point(s)	Intent of Credit	Statement of Credit	Concentration of Credit
1 Optimize Energy Performance	10	1. Increase level of energy performance compare to mandatory standards 2. Reduce excessive energy use.	Optimize Energy Performance	Increase energy performance methods: 1. Reduce demand 2. Increase efficiency

MR - Reference Number/ Name	Point(s)	Intent of Credit	Statement of Credit	Concentration of Credit
4 Recycled Content	2	1. Reduce impact from extraction 2. Reduce processing of virgin material	Recycled content	10% or 20% of total construction material is from recycled items with this mixture: (post consumer + ½ pre-consumer)
5 Regional Materials	1	1. Increase job demand within region 2. Reduce transportation issues 3. Support using indigenous resources	Regional Materials	10% of construction material is extracted, processed and manufactured

EQ - Reference Number/ Name	Point(s)	Intent of Credit	Statement of Credit	Concentration of Credit
4.1 Low-Emitting Materials Adhesives & Sealants	1	1. Reduce air contaminants (odorous and irritating in air) 2. Reduce the harmful stuff in air 3. Provide comfort zone for people	Low- Emitting Materials	Adhesives & Sealants

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