



DURO-FLEECE® MEMBRANE

Product Environmental Profile

Duro-Last® Duro-Fleece membrane is an excellent choice for projects requiring a long lasting, energy efficient roofing product. The combination of fleece and the proven performance of Duro-Last roofing membrane results in an ideal product for use in adhered and mechanically attached applications for a wide variety of roof substrates. Duro-Fleece is available in 50 mil, 60 mil, and 80 mil nominal thicknesses in 7 different colors and also offers a complete line of custom prefabricated accessories. The Duro-Fleece membrane incorporates a weft-inserted knitted scrim to provide exceptional strength and waterproofing.

Environmental Facts:



POST-INDUSTRIAL RECYCLING

Up to 100% recyclable. Post-industrial scrap from the manufacturing of Duro-Fleece is recycled into concrete expansion joints.



GREEN CODES

Complies with California Title 24, IgCC, and efficiency programs requiring the use of a highly reflective roof membrane.



ENERGY EFFICIENT

Duro-Fleece white reflective roofs, when designed and installed properly, can help increase energy efficiency, especially during periods of peak demand.



SOLAR READY

Is solar ready with low-maintenance custom fabricated flashings which are ideal for any rack-mounted commercial rooftop solar application.

Duro-Last membranes are tested for radiative properties by the Cool Roof Rating Council.

Cool Roof Rating Council (CRRC)						
	Solar Reflectance		Thermal Emittance		Solar Reflective Index (SRI)	
	Initial	3-Year	Initial	3-Year	Initial	3-Year
White	0.85	Pending	0.89	Pending	108	Pending
Blue	0.14	Pending	0.89	Pending	Pending	Pending
Copper	0.18	Pending	0.89	Pending	Pending	Pending
Charcoal	0.08	Pending	0.89	Pending	Pending	Pending
Green	0.07	Pending	0.89	Pending	Pending	Pending
Light Gray	0.43	Pending	0.89	Pending	Pending	Pending
Patina	0.31	Pending	0.89	Pending	Pending	Pending
Light Tan	0.71	Pending	0.89	Pending	Pending	Pending

Product Environmental Profile: Duro-Fleece

The Duro-Fleece roofing system can help buildings obtain credits under the U.S. Green Building Council’s LEED® (Leadership in Energy and Environmental Design) rating system, as well as GBI’s (Green Building Institute) Green Globes certification. Both programs promote sustainable building management and construction practices.

LEED® Contributions (LEED 2009)			
Program	Category	Credit	Contribution
LEED Design & Construction	Sustainable Sites	SSc72: Heat island effect – roof	Solar Reflective Index (SRI) White membrane SRI= 108 Duro-Fleece roofs can be installed under a vegetative roof.
	Energy & Atmosphere	EAc1: Optimize energy performance	Cool roofs can help reduce heating and cooling loads which reduces building energy consumption.
	Materials & Resources	MRC2: Construction waste management	The packaging materials used for Duro-Fleece are 100% recyclable.
	Materials & Resources	MRC5: Regional materials	Duro-Fleece is manufactured in Saginaw, MI.
LEED Operations & Maintenance	Sustainable Sites	SSc72: Heat island effect – roof	Solar Reflective Index (SRI) White membrane SRI= 108 Duro-Fleece roofs can be installed under a vegetative roof.
	Energy & Atmosphere	EAc1: Optimize energy performance	Cool roofs can help reduce heating and cooling loads which reduces building energy consumption.
	Materials & Resources	MRC3: Sustainable purchasing- facility alterations & additions	Duro-Fleece is manufactured in Saginaw, MI.

Green Globes® Contributions (version 2.2)			
Program	Category	Credit	Contribution
Green Globes New Construction	3.2.2 Ecological Impacts	3.2.2.4 Heat island effect	Solar Reflective Index (SRI) White membrane SRI= 108 Duro-Fleece roofs can be installed under a vegetative roof.
	3.5.6 Resource Conservation	3.5.6.1 Minimized use of raw materials	Prefabricated Duro-Fleece accessories help reduce waste created onsite.
	3.5.7 Building Envelope – Roofing/ Openings	3.5.7.1 Roofing membrane assemblies and systems	Most Duro-Fleece roofs are inspected by a trained QA Technical Representative.
	3.5.7 Building Envelope – Roofing/ Openings	3.5.7.2 Flashings	Most Duro-Fleece flashings, provided by EXCEPTIONAL® Metals, are inspected by a trained QA Technical Representative.
	3.5.10 Envelope – Barriers	3.5.10.1 Air barriers	Duro-Guard® Soprovap’r is a self-adhesive vapor membrane that works as an air barrier to stop thermal discontinuities.
	3.5.10 Envelope – Barriers	3.5.10.2 Vapor retarders	Duro-Guard Soprovap’r is an air barrier as well as a vapor retarder.



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