



# DURO-LAST® MEMBRANE

## Product Environmental Profile

Duro-Last® membrane is an excellent choice for projects requiring a long lasting, energy efficient roofing product. The membrane is available in prefabricated sections which reduces waste generated on the job site as well as installation time. A complete line of custom prefabricated accessories is available for the Duro-Last 40 mil, 50 mil, and 60 mil membranes. The Duro-Last membrane incorporates a weft-inserted knitted scrim to provide exceptional strength and waterproofing.

### Environmental Facts:

 <p><b>POST-INDUSTRIAL RECYCLING</b> Up to 100% recyclable. Post-industrial scrap from the manufacturing of Duro-Last can be recycled into walkway pads, concrete expansion joints and resilient flooring.</p>	 <p><b>INDUSTRY LEADERSHIP</b> Duro-Last completed the industry's first product-specific PVC membrane Environmental Product Declaration (EPD) as well as contributed to an industry EPD for white PVC single-ply roofing.</p>
 <p><b>RECYCLED CONTENT</b> Contains up to 7% post-industrial and 0% post-consumer recycled content.</p>	 <p><b>GREEN CODES</b> Complies with California Title 24, IgCC, and efficiency programs requiring the use of a highly reflective roof membrane.</p>
 <p><b>END-OF-LIFE RECYCLING</b> Mechanically fastened membranes can be taken back and recycled into roof walkway pads and resilient flooring.</p>	 <p><b>SOLAR READY</b> Is solar ready with low-maintenance custom fabricated flashings which are ideal for any rack-mounted commercial rooftop solar application.</p>
 <p><b>ENERGY EFFICIENT</b> Duro-Last white reflective roofs, when designed and installed properly, can help increase energy efficiency, especially during periods of peak energy demand.</p>	 <p><b>SUSTAINABILITY CERTIFICATION</b> The Duro-Last membrane is NSF 347 certified as a more durable, energy efficient, and sustainable, single-ply membrane product.</p>

*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	0.88	0.68	0.87	0.84	111	82
Tan	0.39	0.33	0.89	0.89	43	35
Gray	0.47	0.40	0.89	0.89	54	45
Dark Gray	0.26	0.25	0.88	0.89	26	25
Terra Cotta	0.26	Pending	0.89	Pending	26	Pending



## Product Environmental Profile: Duro-Last

Duro-Last single-ply roof membrane 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	SSc7.2: Heat island effect – roof	Solar Reflective Index (SRI) White membrane SRI= 111 Duro-Last 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	Duro-Last prefabricated membranes can help reduce onsite waste generation. The packaging materials are 100% recyclable.
	Materials & Resources	MRC4: Recycled content	7% post-industrial 0% post-consumer
	Materials & Resources	MRC5: Regional materials	Duro-Last membranes are prefabricated in Saginaw, MI; Jackson, MS; Carrollton, TX; Grants Pass, OR; and Sigourney, IA.
LEED Operations & Maintenance	Sustainable Sites	SSc7.2: Heat island effect – roof	Solar Reflective Index (SRI) White membrane SRI= 111 Duro-Last 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-Last membranes are prefabricated in Saginaw, MI; Jackson, MS; Carrollton, TX; Grants Pass, OR; and Sigourney, IA.

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-Last roofs can be installed under a vegetative roof.
	3.5.6 Resource Conservation	3.5.6.1 Minimized use of raw materials	Prefabricated accessories help reduce waste created onsite.
	3.5.7 Building Envelope – Roofing/ Openings	3.5.7.1 Roofing membrane assemblies and systems	Most Duro-Last roofs are inspected by a trained QA Technical Representative.
	3.5.7 Building Envelope – Roofing/ Openings	3.5.7.2 Flashings	Most Duro-Last 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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