

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:



POST-INDUSTRIAL RECYCLING

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.



INDUSTRY LEADERSHIP

Duro-Last completed the industry's first productspecific PVC membrane Environmental Product Declaration (EPD) as well as contributed to an industry EPD for white PVC single-ply roofing.



RECYCLED CONTENT

Contains up to 7% post-industrial and 0% post-consumer recycled content.



GREEN CODES

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



END-OF-LIFE RECYCLING

Mechanically fastened membranes can be taken back and recycled into resilient flooring and concrete expansion joints.



SOLAR READY

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



ENERGY EFFICIENT

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



SUSTAINABILITY CERTIFICATION

The Duro-Last membrane is NSF 347 platinum certified as a more durable, energy efficient, and sustainable, single-ply membrane product.

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	0.24	0.89	0.89	26	23		





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 (version 4)						
Program	Category	Credit	Contribution			
LEED BD+C: New Construction	Sustainable Sites	SSc5: Heat island reduction	Initial Solar Reflective Index white membrane: 111 3-year aged SRI: 82 Duro-Last roofs can also be installed under a vegetative roof.			
	Energy & Atmosphere	EAc2: Optimize energy performance	Cool roofs can help reduce heating and cooling loads which reduces building energy consumption.			
	Materials & Resources	MRc1: Building life-cycle impact reduction	The Duro-Last life-cycle assessment (LCA) is featured in the Athena Sustainable Materials Institute's Building Impact Estimator so project teams can easily model a whole building LCA			
		MRc2: Building product dis- closure & optimization - envi- ronmental product eclaration	Duro-Last has a 3rd party verified environmental product declaration, which is valued as one whole product.			
		MRc3: Building product disclosure & optimization - sourcing of raw materials	Duro-Last offers a take-back program so old roofs can be recycled into new product. The Duro-Last product also contains at least 7% pre-consumer recycled content.			
	Sustainable Sites	SSc7.2: Heat island effect – roof	Solar Reflective Index (SRI) White membrane SRI: 111, 3-year aged SRI: 82 Duro-Last roofs can be installed under a vegetative roof.			
LEED O+M:	Energy & Atmosphere	EAc1: Optimize energy performance	Cool roofs can help reduce heating and cooling loads which reduces building energy consumption.			
Existing Buildings	Materials & Resources	MRc3: Sustainable purchasing - facility alterations & additions	Duro-Last offers a take-back program so old roofs can be recycled into new product. Duro-Last also contains post-industrial recycled content.			
		MRc5: Solid waste - facility maintenance & renovation	Duro-Last offers a take-back program so old roofs can be recycled into new product to help increase the project's waste diversion rate.			
Pilot Credit		Certified multi-attribute products & materials	Duro-Last is NSF/ANSI 347 Platinum certified, and has achieved two points in credit 5.2.2.			

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	Initial Solar Reflective Index white membrane: 111 3-year aged SRI: 82 Duro-Last roofs can also be installed under a vegetative roof.			
	3.5.1 Building Core & Shell	3.5.1.1 Path A: Performance path for building core & shell	The Duro-Last life-cycle assessment (LCA) is featured in the Athena Sustainable Materials Institute's Building Impact Estimator so project teams can easily model a whole building LCA			
		3.5.1.2 Path B: Prescriptive path for building core & shell	Duro-Last is NSF/ANSI 347 platinum certified, and has a brand specific 3rd-party verified EPD to comply with this credit.			
	3.5.6 Resource Conservation 3.5.6.1 Minimized use of materials.		Custom fabricated deck sheets and accessories help reduce waste created onsite.			
	3.5.7 Building Enve- lope - Roofing/ Openings	3.5.7.1 Roofing membrane assemblies and systems	Most Duro-Last roofs are inspected by a trained QA technical representative.			
		3.5.7.2 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® Sopravap'r is a self-adhesive vapor membrane that works as an air barrier to stop thermal discontinuities.			
		3.5.10.2 Vapor retarders	Duro-Guard Sopravap'r is an air barrier as well as a vapor retarder.			

