

DURO-TUFF® MEMBRANE

Product Environmental Profile

Duro-Last[®] Duro-Tuff membrane is an excellent choice for low-slope roof projects requiring a long lasting, energy efficient roofing product. A complete line of custom prefabricated accessories is available for the Duro-Tuff 50 mil, 60 mil, and 80 mil membranes. The Duro-Tuff 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-Tuff is recycled into walkway pads, concrete expansion joints and resilient flooring.



END-OF-LIFE RECYCLING Mechanically fastened membranes can be

taken back and recycled into resilient flooring and concrete expansion joints.



White

ENERGY EFFICIENT

0.85

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

0.73



GREEN CODES

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



SOLAR READY

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



0.88

SUSTAINABILITY CERTIFICATION

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

108

Duro	-Last membrane	es are lested for	radiative prope	nies by the Cool	ROOI Raing CO	uncii.			
	Cool Roof Rating Council (CRRC)								
	Solar Reflectance		Thermal Emittance		Solar Reflective Index (SRI)				
	Initial	3-Year	Initial	3-Year	Initial	3-Year			
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0.89

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





90

Product Environmental Profile: Duro-Tuff

The Duro-Tuff 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 (version 4)							
Program Category		Credit	Contribution				
	Sustainable Sites	SSc5: Heat island reduction	Initial Solar Reflective Index white membrane: 108 3-year aged SRI: 90 Duro-Tuff 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.				
LEED Design &	Materials & Resources	MRc1: Building life-cycle impact reduction	The Duro-Tuff life-cycle assessment (LCA) is featured in the Athena Sustain- able Materials Institute's Building Impact Estimator so project teams can easily model a whole building LCA				
Construction		MRc2: Building product disclosure & optimization - environmental product declaration	Duro-Tuff has a 3rd party verified environmental product declaration (EPD), 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.				
	Sustainable Sites SSc3: Heat island reduction		Initial Solar Reflective Index white membrane: 108 3-year aged SRI: 90 Duro-Tuff roofs can also be installed under a vegetative roof.				
LEED Operations &	Energy & EAc4: Optimize energy Atmosphere performance		Cool roofs can help reduce heating and cooling loads which reduces building energy consumption.				
Maintenance	Materials & Resources	MRc3: Purchasing - facility maintenance & renovation	Duro-Last offers a take-back program so old roofs can be recycled into new product. Duro-Tuff also contains post-industrial recycled content.				
		MRc5: Solid waste manage- ment - 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-Tuff is NSF/ANSI 347 Gold certified, and has achieved two points in credit 5.2.2				

Green Globes [®] Contributions (version 2.2)						
Program	Category	Credit	Contribution			
	3.2.2 Ecological Impacts	3.2.2.4 Heat island effect	Initial Solar Reflective Index white membrane: 108 3-year aged SRI: 90 Duro-Tuff roofs can also be installed under a vegetative roof.			
	3.5.1 Building	3.5.1.1 Path A: Performance path for building core & shell	The Duro-Tuff LCA is featured in the Athena Sustainable Materials Institute's Building Impact Estimator so project teams can easily model a whole building LCA			
	Core & Shell	3.5.1.2 Path B: Prescriptive path for building core & shell	Duro-Tuff is NSF/ANSI 347 gold certified, and has a brand specific 3rd-party verified EPD to comply with this credit.			
Green Globes New Construction	3.5.6 Resource Conservation	3.5.6.1 Minimized use of raw materials	Custom fabricated accessories help reduce waste created onsite.			
	3.5.7 Building En- velope - Roofing/ Openings	3.5.7.1 Roofing membrane assemblies and systems	Most Duro-Tuff roofs are inspected by a trained QA technical representative.			
		3.5.7.2 Flashings	Most Duro-Tuff 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.			



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