



# DURO-GUARD® ISO II

Product Environmental Profile

Duro-Guard ISO II insulation is a closed-cell polyisocyanurate foam core insulation board with an integrally laminated, fiber-reinforced facer which is compatible with Duro-Last® roof membranes.

## Environmental Facts:



### SUSTAINABLE MATERIALS

Manufactured with a blowing agent free of ozone depleting chemicals, CFCs and HCFCs.



### RECYCLED CONTENT

Contains up to 28% post-consumer and 10% pre-consumer recycled content, depending on the foam thickness.



### ENERGY EFFICIENT

Polyiso provides high thermal resistance per inch of material which helps promote energy savings.



### GREEN CODES

Complies with California Title 24, IgCC, and efficiency programs requiring high R-values.

## Thermal Values

Thickness		LTTR R-Value	Flute Spanability	
Inches	mm		Inches	mm
1.00	25	5.60	2.625	67
1.50	38	8.50	4.375	111
1.60	41	9.10	4.375	111
1.70	43	9.60	4.375	111
2.00	51	11.40	4.375	111
2.50	64	14.40	4.375	111
2.70	69	15.60	4.375	111
3.00	76	17.40	4.375	111
3.30	84	19.20	4.375	111
3.50	89	20.80	4.375	111
3.60	91	21.10	4.375	111
4.00	102	23.60	4.375	111

## Product Environmental Profile: Duro-Guard ISO II

Duro-Guard ISO II insulation 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	Energy & Atmosphere	EAc2: Optimize energy performance	ISO insulation provides high thermal resistance per inch of material which helps reduce building energy consumption.
	Materials & Resources	MRc1: Building life-cycle impact reduction	The Polyisocyanurate Insulation Manufacturers Association (PIMA) published an industry-wide environmental product declaration (EPD) which can be used in Athena Sustainable Materials Institute's Building Impact Estimator so project teams can easily model a whole building LCA
		MRc2: Building product disclosure & optimization - environmental product declaration	PIMA published an industry-wide EPD which contributes to this credit.
		MRc3: Building product disclosure & optimization - sourcing of raw materials	Duro-Guard ISO insulation contains up to 28% post-consumer and 10% pre-consumer recycled content, depending on the foam thickness.
LEED O+M: Existing Buildings	Energy & Atmosphere	EAc4: Optimize energy performance	ISO provides high thermal resistance per inch of material which helps reduce building energy consumption.
	Materials & Resources	MRc3: Purchasing - facility maintenance & renovation	Can contain up to 25% pre-consumer recycled content, by request.
		MRc5: Solid waste management - facility maintenance & renovation	ISO insulation can be recycled in some markets through construction and demolition waste management companies.

Green Globes® Contributions (version 2.2)			
Program	Category	Credit	Contribution
Green Globes New Construction	3.5.1 Building Core & Shell	3.5.1.1 Path A: Performance path for building core & shell	The Polyisocyanurate Insulation Manufacturers Association (PIMA) published an industry-wide environmental product declaration (EPD) which can be used in Athena Sustainable Materials Institute's Building Impact Estimator so project teams can easily model a whole building LCA
	3.3.4 Building Opaque Envelope	3.3.4.1 Thermal resistance & transmittance	Duro-Guard ISO II insulation in thicknesses greater than 2.7 inches meet the minimum R-value criteria.
	3.5.7 Building Envelope - Roofing/ Openings	3.5.7.1 Roofing membrane assemblies and systems	Insulation is part of a properly installed roofing assembly.