CERTIFIED
ENVIRONMENTAL PRODUCT DECLARATION
UL.COM/EPD

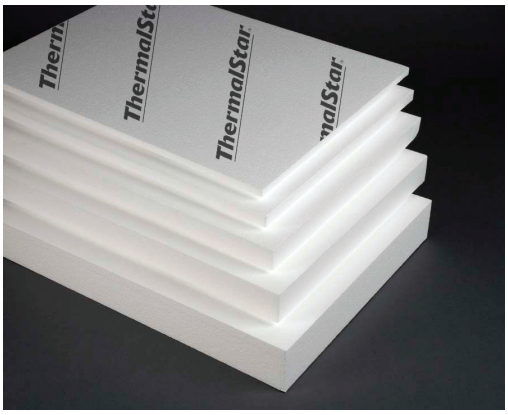
EPD **Transparency Summary**

COMPANY NAME Atlas Molded Products, Division of Atlas Roofing Corporation

PRODUCT NAME ThermalStar Molded Expanded Polystyrene Insulation.

PRODUCT DESCRIPTION ThermalStar Insulation Board is made of expanded polystyrene (EPS). It is a closed-cell foam plastic with 98% air. ThermalStar is manufactured from a polystyrene resin containing a pentane-blowing agent that is replaced by air after processing.ThermalStar insulation boards provide a lifetime stable R-value.

PRODUCT CATEGORY RULE (PCR)+ VERSION Part A: Product Category Rules for Building Related Products and Services, UL 10010, Version 3.1
Part B: Building Envelope Thermal Insulation EPD Requirements UL 10010 -1, Edition 2



CERTIFICATION PERIOD December 11 , 2024 to December 11, 2029

DECLARATION NUMBER 4791288083.101.2

EPD TYPE ☑ PRODUCT SPECIFIC ☐ INDUSTRY AVERAGE

DECLARED/ FUNCTIONAL UNIT ThermalStar molded expanded polystyrene insulation. 1 m^2 of insulation material with a thickness that gives an average thermal resistance of RSI = 1 m^2 K/W and with a building service life of 75 years.

GREEN BUILDING QUALIFICATIONS
LEED v4 Building Product Disclosure and Optimization - EPDs, Option 1 ASHRAE 189.1 Material Compliance
IgCC Material Compliance
Green Globes 3.5.1.2.1
NAHB Material Selection

REFERENCE SERVICE LIFE (IF APPLICABLE) 75 Years

LCA SOFTWARE + VERSION SimaPro v9.4

IMPACT ASSESSMENT METHOD + VERSION CML-IA baseline V4.7 and TRACI 2.1

LIFECYCLE IMPACT CATEGORIES

The environmental impacts listed below were assessed through the product's production phase (cradle to gate impacts).

	ATMOSPHERE			WATER		EARTH	
	Global Warming Potential refers to long-term changes in global weather patterns that are caused by increased concentrations of greenhouse gases in the atmosphere.	**Ozone Depletion Potential** is the destruction of the stratospheric ozone layer, which shields the earth from ultraviolet radiation that's harmful to life, caused by human-made air pollution.	**Photochemical Ozone Creation Potential** happens when sunlight reacts with hydrocarbons, nitrogen oxides, and volatile organic compounds, to produce a type of air pollution known as smog.	**Acidification Potential** is the result of human-made emissions and refers to the decrease in pH and increase in acidity of oceans, lakes, rivers, and streams – polluting groundwater and harming aquatic life.	**Eutrophication Potential** occurs when excessive nutrients cause increased algae growth in lakes, blocking the underwater penetration of sunlight needed to produce oxygen and resulting in the loss of aquatic life.	**Depletion of Abiotic Resources (Elements)** refers to the reduction of available non-renewable resources, such as metals, that are found on the periodic table of elements, due to human activity.	**Depletion of Abiotic Resources (Fossil Fuels)** refers to the decreasing availability of non-renewable carbon-based compounds, such as oil and coal, due to human activity.
TRACI	2.73E+00 kg CO_2-Equiv.	2.44E-07 kg CFC 11-Equiv.	1.36E-01 kg O_3 eq	9.00E-03 kg SO_2 equiv	4.00E-03 kg N equiv.	N/A kg Sb-Equiv.	6.14E+01 MJ
CML	2.70E+00 kg CO_2-Equiv.	1.97E-07 kg CFC 11-Equiv.	7.00E-03 kg ethene eq	9.00E-03 kg SO_2-Equiv.	2.00E-03 kg PO-4-3 equiv.	8.98E-06 kg Sb-Equiv.	6.14E+01 MJ

Environment

MATERIAL CONTENT

Material content measured to 1%.

COMPONENT	MATERIAL	AVAILABILITY	MASS%	ORIGIN
Polymer	Polystyrene	Non-renewable	>97	North America
Blowing Agent	Pentanes	Non-renewable	<1	North America
Flame Retardant	Proprietary	Non-renewable	<1	Global
Additives	Proprietary	Non-renewable	<1	North America

ADDITIONAL ENVIRONMENTAL INFORMATION

PRE-CONSUMER RECYCLED CONTENT	0 **%**
POST-CONSUMER RECYCLED CONTENT	0 **%**
VOC EMISSIONS	N/A
WATER CONSUMPTION	2.45E-02 m3

RECYCLING OR REUSE

Atlas' molded expanded polystyrene insulation is 100% recyclable. Atlas accepts clean molded expanded polystyrene that has reached its end of life for recycling at any of our locations. Collected material is used as recycled content in the manufacture of polystyrene products.

ENERGY

RENEWABLE ENERGY	1.2 **%**	8.28E-01 **MJ**
NON-RENEWABLE ENERGY	98.8 **%**	6.87E+01 **MJ**

STANDARDS

ASTM C578
ASTM E84
CAN/ULC S701.1
CAN/ULC S102.2

CERTIFICATIONS

MANUFACTURER CONTACT INFO

NAME	Atlas Molded Products, A Division of Atlas Roofing Corporation
PHONE	N/A
EMAIL	ampcompliance@atlasroofing.com
WEBSITE	www.atlasmoldedproducts.com