



EPD Transparency Summary



COMPANY NAME Owens Corning

PRODUCT TYPE Air Handling Insulation

PRODUCT NAME SOFTR® Duct Wrap

PRODUCT DEFINITION SOFTR® Duct Wrap is a blanket of glass fiber insulation for the external insulation of commercial and residential HVAC ducts.

PRODUCT CATEGORY RULE (PCR) Product Category Rules for preparing an Environmental Product Declaration (EPD) for Product Groups: Building Envelope Thermal Insulation and Mechanical Insulation, Version 1.3, 1 June 2014.

CERTIFICATION PERIOD 11/17/2015 - 11/17/2020

DECLARATION NUMBER 4786077032.112.1

LIFECYCLE IMPACT CATEGORIES

The environmental impacts listed below were assessed throughout the product's lifecycle – including raw material extraction, transportation, manufacturing, packaging, use, and disposal at end of life.

	ATMOSPHERE			WATER		EARTH	
	Global Warming Potential refers to long-term changes in global weather patterns – including temperature and precipitation – 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 – a phenomenon that pollutes groundwater and harms 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 and gases, 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	1.27E+00 kg CO2 eq	2.03E-07 kg CFC-11eq	1.02E-01 kg O3 eq	7.92E-03 kg SO2 eq	2.46E-03 kg N eq		
CML							

1 m² of insulation material with a thickness that gives an average thermal resistance RSI = 1 m²K/W and with a building service life of 60 years

FUNCTIONAL UNIT



Environment



MATERIAL CONTENT

Material content measured to 1%.

COMPONENT	MATERIAL	AVAILABILITY	MASS%	ORIGIN
Glass Batch	Cullet	Non-Renewable, Recycled	25 - 75%	North America
Glass Batch	Sand	Renewable	5 - 50%	North America
Glass Batch	Silicates	Non-Renewable	<5%	North America
Glass Batch	Borates	Non-Renewable	<10%	Global
Glass Batch	Soda Ash	Non-Renewable	<15%	North America
Glass Batch	Oxides	Non-Renewable	<5%	North America
Binder	Phenol Urea Formaldehyde Resin	Non-Renewable	<10%	North America
Binder	Carboxylic acid	Renewable	<5%	North America
Binder	Polyol	Renewable	<10%	North America
Binder	Additives	Non-Renewable	<5%	North America
FRK Facing	Foil Reinforced Kraft	Non-Renewable	<1%	North America

ADDITIONAL ENVIRONMENTAL INFORMATION

PRE-CONSUMER RECYCLED CONTENT	31%
POST-CONSUMER RECYCLED CONTENT	22%
VOC EMISSIONS	GREENGUARD Gold
WATER CONSUMPTION	3.819E-03 m3

ENERGY

RENEWABLE ENERGY	5.6 %	1.78E+00 MJ
NON-RENEWABLE ENERGY	94.4 %	2.47E+02 MJ

MANUFACTURER CONTACT INFO

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RECYCLING OR REUSE

At this time, there are no formal end-of-life recycling programs for fiberglass insulation.

STANDARDS

CERTIFICATIONS

