

COMPANY NAME

Owens Corning

PRODUCT TYPE

Building Envelope Thermal Insulation

PRODUCT NAME

EcoTouch® Kraft-faced Insulation

PRODUCT DEFINITION

EcoTouch® Kraft-faced Insulation. Manufactured by Owens Corning in the United States and Canada.

PRODUCT CATEGORY RULE (PCR)

PCR- Building Envelope Thermal Insulation

Including: cellular glass, mineral fibre, cellulose-based, textile-based, & polymer-based insulations. (ULE 2011)

CERTIFICATION PERIOD

October 29, 2012 - October 29, 2017








DECLARATION NUMBER

12CA25418.102.1



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	7.53E-01 kg CO2 eq	2.42E-08 kg CFC-11 eq	5.44E-02 kg O3 eq	2.99E-01 mol H+ eq	5.40E-04 kg N eq	
CML						

FUNCTIONAL UNIT

The functional unit of the product as defined by the PCR is 1 square meter 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.



MATERIAL CONTENT

Material content measured to 1%.

COMPONENT	MATERIAL	AVAILABILITY	MASS%	ORIGIN
Glass Batch	Cullet	Non-renewable, recycle material	25-75%	North America
Glass Batch	Sand	Renewable	8-25%	North America
Glass Batch	Borates	Non-renewable	10-30%	Global
Glass Batch	Soda Ash	Non-renewable	0.5-6%	North America
Glass Batch	Other Oxides	Non-renewable	1-2%	North America
Glass Batch	Limestone	Non-renewable	0-5%	North America
Binder	Carbohydrate Polyol	Renewable	2-10%	North America
Binder	Bio-Based Polycarboxylic Acid	Renewable	1-5%	North America
Binder	Cure Accelerator	Non-renewable	0.2-1%	North America
Binder	Vegetable Oil	Renewable	0-3.5%	North America
Binder	Pink Colorant	Non-renewable	0.1-0.2%	North America
**Material % for kraft paper and asphalt for the Functional Unit RSI=one is not applicable and would distort the data. For Kraft-faced products, the % of facing material varies as a function of Product R-Value and square foot weight. For example, in R-38C Batt, the facing component would be 3% of the Kraft-faced insulation's overall weight. For an R-11 product, the facing would be 12.5% of the overall product's weight.				

ADDITIONAL ENVIRONMENTAL INFORMATION

PRE-CONSUMER RECYCLED CONTENT	Minimum overall 58 %
POST-CONSUMER RECYCLED CONTENT	36 %
VOC EMISSIONS	GREENGUARD
WATER CONSUMPTION	4 gal/square meter

RECYCLING OR REUSE

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

ENERGY

RENEWABLE ENERGY	21.5 %	3.583 MJ
NON-RENEWABLE ENERGY	78.5 %	13.1 MJ

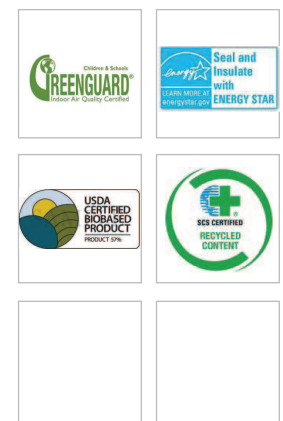
MANUFACTURER CONTACT INFO

NAME	Owens Corning
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EMAIL	
WEBSITE	www.owenscorning.com

STANDARDS

ASTM C665-12
ASTM C518-10
ASTM C665, Type II, Class C
ASHRAE Standard 90.2
ICC International Energy Conservation Code

CERTIFICATIONS



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