CERTIFIED
ENVIRONMENTAL PRODUCT DECLARATION
UL.COM/EPD

# EPD **Transparency Summary**

| | |
|---|---|
| COMPANY NAME | **Owens Corning** |
| PRODUCT TYPE | **Building Envelope Thermal Insulation** |
| PRODUCT NAME | 700 Series FIBERGLAS™ Insulation Unfaced |
| PRODUCT DEFINITION | 700 Series FIBERGLAS™ Insulation Unfaced manufactured by Owens Corning in the United States. |
| PRODUCT CATEGORY RULE (PCR) | Product Category Rules for Preparing an Environmental Product Declaration for Product Group: Building Envelope Thermal Insulation, Version 1.3, 1 June 2014 |
| CERTIFICATION PERIOD | **August 21, 2015 - August 21, 2020** |
| DECLARATION NUMBER | **4786077032.107.1** |

## 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 | **6.02E+0** kg CO2 eq | **8.63E-7** kg CFC-11 eq | **4.12E-1** kg O3 eq | **4.74E-2** kg SO2 eq | **1.21E-2** kg N eq | | |
| CML | | | | | | | |

FUNCTIONAL UNIT 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

Environment

# Environment

## MATERIAL CONTENT

Material content measured to 1%.

| COMPONENT | MATERIAL | AVAILABILITY | MASS% | ORIGIN |
|---|---|---|---|---|
| Glass Batch | Cullet | Non-Renewable, Recycled | 45-48% | North America |
| Glass Batch | Slicates | Non-Renewable | 0-3% | North America |
| Glass Batch | Sand | Renewable | 14-17% | North America |
| Glass Batch | Borates | Non-Renewable | 10-13% | Global |
| Glass Batch | Soda Ash | Non-Renewable | 3-6% | North America |
| Glass Batch | Other Oxides | Non-Renewable | <1% | North America |
| Binder | Phenol Urea Formaldehyde Resin | Non-Renewable | 5-12% | North America |
| Binder | Dust Suppressant | Non-Renewable | < 1% | North America |
| Binder | Couping Agent | Non-Renewable | < 1% | North America |
| Binder | Carboxylic Acid Additive | Non-Renewable | < 1% | North America |
| | | | | |
| | | | | |

## ADDITIONAL ENVIRONMENTAL INFORMATION

| | |
|---|---|
| PRE-CONSUMER RECYCLED CONTENT | 31% |
| POST-CONSUMER RECYCLED CONTENT | 22% |
| VOC EMISSIONS | |
| WATER CONSUMPTION | 4.26E-4 m3 |

## RECYCLING OR REUSE

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

## ENERGY

| | | |
|---|---|---|
| RENEWABLE ENERGY | 1.3 % | 1.42 MJ |
| NON-RENEWABLE ENERGY | 98.7 % | 110 MJ |

## STANDARDS

ASTM C553, Type III
ASTM C612, Types IA, IB
ASTM C795
ASTM CII36
Nuclear Regulatory Commission Guide 1.36
CAN/CGSB-51.10, Type I, Class I
NFPA 90A and 90B
California Insulation Quality Standards CA-T052
Does not contain fire retardant decabrominated diphenyl ether (decaBDE)

## CERTIFICATIONS

## MANUFACTURER CONTACT INFO

| | |
|---|---|
| NAME | Owens Corning |
| PHONE | 800-438-7465 |
| EMAIL | |
| WEBSITE | www.owenscorning.com |



The information presented herein is a summary of content contained in the manufacturer's ISO 14025-compliant EPD certified by UL. Please visit www.ul.com/environment to download the full EPD.
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