



# POLYCOR

## Limestone Facades, Cladding & Walls

Originating at the Polycor quarries and through production, limestones are manufactured to the system's specifications from ultra-thin profiles up to full thickness dimensional elements complimenting a wide range of façade structures. Limestone is an inherently nonemitting source of VOCs and its durability allows it to perform impeccably in commercial & residential applications, interior or exterior.



### Performance dashboard

#### Features & functionality

Covers the wide selection of Polycor's heritage limestones and any surface finishes available

Has an unmatched durability and no need for periodic cleaning

Includes ultra-thin panels and veneer series : BERKSHIRE®, ROCKFORD ESTATE BLEND® & VANDERBILT CLASSIC®

Installation methods include adhered or anchored

#### Visit Polycor for more product information

- [Limestones](#)
- [Building Facades](#)
- [Veneer series](#)

#### Environment & materials

##### Improved by:

**Polycor's commitment to carbon neutrality translates into:**

Reduction of product's GWP

Reduction of product's energy intensity

**Polycor's ownership of the chain of custody from quarries to plants ensures:**

No child labor and forced labor

Materials remain 100% natural, free from chemicals or dyes

##### Certifications & rating systems:

Environmental Product Declaration (EPD)

Natural Stone Sustainability Standard (ANSI 373)

Health Product Declaration (HPD)



**Polycor Limestone Cladding LCIA results show a 32% reduction in global warming potential impacts compared to the industry average.**

This product-specific EPD compares results to the [NSI industry-wide Type III EPD](#), a product group benchmark done in conformance with benchmarking guidance in the UL PCR and the SM Part B: Benchmarking Addendum.

MasterFormat® 04 41, 04 42, 04 43, 04 43 16, 09 75

[Limestone Facades, Cladding & Walls Guide Specs](#)

For spec help, [contact us](#) or call 418.692.4695

[See LCA, interpretation & rating systems](#)

[See materials, interpretation & rating systems](#)



## SM Transparency Report (EPD)™ – LEED 4.1 EPD Option 2. Optimization

#### VERIFICATION

3rd party reviewed



Transparency Report (EPD)

3rd party verified



Validity: 2023/01/31 – 2028/01/30

Decl #: POL – 20230131 – 007

#### LCA

This environmental product declaration (EPD) was externally verified, according to ISO 21930:2017, UL Part A, and ISO 14025:2006, by Jack Geibig, President, Ecoform.

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#### SUMMARY

##### Reference PCR

ULE PCR Part B: Cladding Product Systems EPD requirements v2.0, 2021

##### Regions; system boundaries

North America; Cradle to grave

##### Functional unit / reference service life:

1 m<sup>2</sup> of installed stone cladding; 75 years

##### LCIA methodology: TRACI 2.1

##### LCA software; LCI database

SimaPro Developer 9.4  
EcoInvent 3.8, US-EI 2.2

##### LCA conducted by: Sustainable Minds

##### Public LCA:

Life Cycle Assessment of Natural Stone Cladding for Polycor

#### Polycor Inc.

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Contact us



## How we make it greener

## Limestone Facades, Cladding & Walls

[Collapse all](#)

[See LCA results by life cycle stage](#)

### RAW MATERIALS ACQUISITION

Natural stone quarrying process has high yields and little excess material because the stone is close to surface. It's different from metal mining, where large amounts of earth must be removed to extract very little quantities. Also, underground quarrying, which has been perfected for generations at our Eureka Quarry, reduces land use and is a practice that Polycor wishes to extend to several quarries.

In addition, few consumables are needed to extract natural stone. Contrast that with other building materials, Polycor specifically focuses on sourcing the highest grades of natural stone so that, for instance, a black granite stone, doesn't need dyes to achieve its rich color.

From the bedrock to the point of sale, Polycor maintains an unbroken ownership of the supply chain allowing it to maintain standards of quality and practice.



### TRANSPORTATION

Using stone from local sources is the single biggest opportunity to reduce its embodied carbon. Since natural stone is a heavy material, the environmental impacts for transporting it end up being one of its most significant source of carbon. Natural stone is sourced world-wide and each deposit has unique aesthetic and performance characteristics so this is not always avoidable. Be sure to understand the distances between the quarry, the processing facility, sometimes the distribution centers but also the transportation mode. In most of Polycor's operations, the quarry is within miles of the processing facility.



### MANUFACTURING

Manufacturing natural stone is so simple that you can summarize it by a single action, cutting. Cutting large piece into smaller pieces ending in a finished product. Also, the beauty of natural stone products is that there is no chemical mixed within our products. Therefore, they are inherently a non-emitting source of VOCs.

Recycling water is reused several times into the manufacturing process and is compulsory to achieve ANSI 373 Standard.

There are a large variety of sizes and finishes that are commonly used for natural stone. Design teams can help reducing energy consumption in the following ways: Usage of low embodied carbon finishes such as water jet, 3D analysis to loose as few stone as possible throughout it's transformation, accepting the natural variation in the material so there is more usable material.



### OTHER (USE, END OF LIFE)

Whether you think of the Egyptian pyramids, the Colosseum of Rome, the cathedrals of the European capitals or closer to us; the famous Empire State building; natural stone is the most durable, classic and timeless building material on Earth. With 100+ years of durability, natural stone lasts longer than other building construction material and projects that use natural stone require less maintenance.

Since we don't use any chemicals, natural stone products as well as excess process materials throughout the extraction and transformation phases can be reused or recycled into gravel for roads, landscaping products and even furniture and jewelry. In short, natural stone can be reused and recycled multiple times during its life cycle; the only limit is your imagination!

Nevertheless, even if natural stone ends up in a construction landfill, there will be no toxic chemicals seeping into the earth as the material degrades. It simply returns to the earth, cradle to cradle.



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