

LEED Programs

General:

LEED is an internationally recognized green building certification system, which provides verification that a building or community was designed and built using strategies aimed at improving performance across all the metrics that matter most: energy savings, water efficiency, CO₂ emissions reduction, improved indoor environmental quality, and stewardship of resources and sensitivity to their impacts. Developed by the U.S. Green Building Council (USGBC), LEED provides building owners and operators a concise framework for identifying and implementing practical and measurable green building design, construction, operations and maintenance solutions.

The certification process for a building involves a lot of paperwork for the contractor and architect. Certification of a building is achieved by accumulating points. They will most likely need backup from their suppliers regarding all qualifying items to substantiate their claim for the credits for the certification level they desire for the building.

There are a number of features that affect the materials rating. The ones that most affect our industry are detailed below:

Material and Resources:

Recycled Content:

Steel:

Amount of recycled content:

- ✘ This recycled content can be either post-consumer or post-industrial. Most programs are looking for greater than 30% recycled content.
- ✘ Steel is the most common recycled material in the United States. Hollow Metal doors and frames are a great fit to the green building movement. The purpose of recycling is to divert scrap from our landfills back to a usable product. Recycling helps ease the demand for harvesting and mining of raw materials. Recycling is one of the most environmentally friendly practices we can incorporate

The steel that Karpén uses for door face sheets and frames comes from "mini-mills". This type of mill obtains their raw product from scrap, which is melted down and made into reusable steel. The typical mini-mill uses 80% scrap steel.

Many of our reinforcements are made in house and therefore have the same recycled content as the steel for the doors and frames.

Corrugated:

The corrugated that is used for protecting the door faces is made from about 33% recycled material.

Wood for Crating:

The wood that we use is #2 grade lumber. Wood is the only renewable resource.



Recyclability of End Product:

Steel:

Steel is 100% recyclable into other steel.

Corrugated:

Corrugated is 100% recyclable into other paper products.

Wood for Crating:

Wood is 100% recyclable into wood chips, or can be made into other crates by the end user.

Distance to Raw Materials:

Steel:

Our steel comes from the Nucor Mill in South Carolina. It is less than 500 miles from our facility.

Corrugated:

Corrugated is processed from sheet goods TN, which is less than 500 miles from our facility. The sheet goods for processing are manufactured in either GA, or SC, both states are also in our 500 mile radius.

Distance to End User:

- ☒ Distance of manufacturer to end user.
 - The Local/Regional Materials credit is for building materials that are manufactured (final assembly point) within 500 miles of the project. This supports the regional economy and reduces the environmental impact resulting from transportation.

Some key cities in the 500 mile radius are:

- ☒ North East:
 - Baltimore
 - Washington
 - Richmond
 - (But not New York City)
- ☒ South:
 - Jackson, MS
 - Mobile
 - Jacksonville
 - (But not Tampa)
- ☒ North:
 - Chicago
 - Detroit
 - Cleveland
- ☒ West:
 - St. Louis
 - Nashville
 - Memphis

Indoor Environmental Quality:

As far as we know, there is no latent VOC emissions that exist in the product line at time of installation.