

THE SUSTAINABLE ATTRIBUTES OF EXTERIOR CLADDING MATERIALS

A True Look at “Green” Claims

Prior to making decisions on cladding materials and their impact on the environment, it's important for builders to consider the true facts regarding siding products' green positions. Many materials claim green or sustainable attributes, but a comparison between manufactured stone and brick shows the true story. A quick review of the facts will show that manufactured stone is not as green as you think.



IN THE MANUFACTURING PROCESS

RECYCLED CONTENT

MANUFACTURED STONE

- Information is generally unknown. Some products claim 6% recycled content, but no proof is offered.

BRICK

- Contains both pre- and post-consumer recycled content, depending on the manufacturer.

MANUFACTURING AND DISTRIBUTION

MANUFACTURED STONE

- Manufacturing locations primarily located in the South and West, requiring end product to be transported long distances.

BRICK

- Waste products such as methane gas from landfills and sawdust used in production, depending on the manufacturer.

- At least two plants located within 500 miles of all but one of 50 largest MSAs.

THIRD PARTY CERTIFICATION

MANUFACTURED STONE

- National Evaluation Service, supported by the ICC, validates the material and ensures it is acceptable since there are no building code requirements.

BRICK

- Manufacturers can achieve third-party certification for extent of recycled content, use of alternative energy, and amount of resources reduced.



ON THE JOB SITE

WASTE MANAGEMENT

MANUFACTURED STONE

- All construction waste must be sent to a landfill.

BRICK

- Reusable scrap materials, minimal packaging.
- Very little on-site waste produced due to modular units.

ENERGY EFFICIENCY

MANUFACTURED STONE

- Most of insulation value claimed is due to the amount of building insulation in the wall.

BRICK

- Thermal mass properties.

LIFE CYCLE & DURABILITY

MANUFACTURED STONE

- Too new of a product to have a history of performance.

BRICK

- 100 year life span.
- Low maintenance requirements.

SAFETY & SECURITY

MANUFACTURED STONE

- Does not provide 1-hour fire resistance rating.

BRICK

- Provides 1-hour fire resistance rating.
- Offers superior resistance to wind-blown debris.

According to experts and certification groups, the future of green home building and sustainable design resides in the life expectancy and life cycle of the building, energy efficiency, and the impact building materials have at the end of their useful life. The Brick Industry offers building professionals a product that assists in all three areas.



BRICK IS A NATURALLY SUSTAINABLE MATERIAL

- Use of abundant natural resources, clay and shale.
- Improved manufacturing processes use less energy and reduce emissions.
- Use of alternative fuel resources such as landfill gas and wood waste materials.
- Strategically located plants to help reduce transport emissions.
- Contributes to energy efficient homes with high thermal mass.
- Long life cycle, durable, low maintenance, no painting required.
- Recyclable and biodegradable thereby reducing its embodied energy.
- A built-in and in-demand market for recycled re-use of old brick.



BRICK IS AN INVESTMENT IN BEAUTY & VALUE

- Consumers prefer brick over other cladding/siding materials.
- Brick's natural beauty is timeless and design possibilities are endless.
- Brick's longevity and local availability make it one of the greenest building products made today.
- Brick conveys a message of quality, image, and prestige about the home builder and community.
- Brick has the longest history of product performance and durability.
- Brick is virtually maintenance-free.
- Brick is a perfect fit within any architectural style.

* Source: Ducker Worldwide 2008 homebuyer research study



BRICK: THE GREEN POINTS ADD UP

National Green Building Standard™

Brick can assist in contributing up to **175½ points** out of approximately 2,000 possible points

LEED for Homes™ (USGBC)

Brick can assist in contributing up to **19½ points** out of a possible 136 points