



SANDSTORM GREEN FRIENDLY CERTIFICATE

As a reminder of the preciousness of the environment, Emser's Green Friendly Program is symbolized by a green leaf and the words "Green Friendly" above it. The program consists of a systematic two-prong approach.



The first prong includes an effort by Emser and its trade partners to incorporate environmentally friendly practices wherever possible.

The second prong includes driving a companywide program amongst Emser employees to incorporate environmentally friendly office practices.

LEED V3 2009 BD+C / ID+C / O+M						
MRC2	MRC3	MRC4	MRC4	EQ4.3	MRPC76	MRPC62
Construction Waste Management	Sustainable Purchasing RECYCLED / NO VOC	10% (Post Consumer + ½ of Pre Consumer)	20% (Post Consumer + ½ of Pre Consumer)	Low-Emitting Materials	Material Ingredient Reporting	Material Ingredient Reporting
Recyclable packaging ✓	4% Pre 0% Post ✓	4% Pre 0% Post ✗	4% Pre 0% Post ✗	VOC Statement ✓	HPD available by request ✓	SDS available by request ✓

LEED V4 2016 BD+C / ID+C		
Material Resources	Material Resources	Indoor Environmental Quality
Building Products Disclosure and Optimization – Material Ingredients	Construction and Demolition Waste Management	Low-Emitting Materials
HPD available by request ✓	Recyclable packaging ✓	See VOC Statement below ✓

LEED V3 2009 BD+C / ID+C MRC2 _RECYCLABLE PACKAGING: To divert construction and demolition debris from disposal in landfills and incineration facilities. Redirect recyclable recovered resources back to the manufacturing process and reusable materials to appropriate sites.

LEED V3 2009 BD+C / ID+C MRC4 _RECYCLED CONTENT: To increase demand for building products that incorporate recycled content materials, thereby reducing impacts resulting from extraction and processing of virgin materials.

LEED V3 2009 BD+C / ID+C EQC4.3 _LOW/NO VOC STATEMENT: To reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants.

LEED V3 2009 BD+C / ID+C MRPC76 _ HPD (Available by request): To encourage the use of products and materials for which life-cycle information is available and that have environmentally, economically, and socially preferable life-cycle impacts. To reward project teams for selecting products for which the chemical ingredients in the product are inventoried using an accepted methodology and for selecting products verified to minimize the use and generation of harmful substances. To reward raw material manufacturers who produce products verified to have improved life-cycle impacts.

All statements contained herein are provided as general information to confirm that the products described on the certificate may hold value towards LEED credit qualifications. Information is subject to change without notice depending on the source of manufacturing at time of purchase.

LEED V3 2009 BD+C / ID+C MRPC62 _SDS: To increase the use of products and materials that disclose chemical ingredient data.

LEED V3 2009 O+M MRC3 _RECYCLED CONTENT: To reduce the environmental and air quality impacts of the materials acquired for use in the upgrade of buildings.

LEED V4 2016 BD+C / ID+C BUILDING PRODUCT DISCLOSURES _HPD (Available by request): To encourage the use of products and materials for which life-cycle information is available and that have environmentally, economically, and socially preferable life-cycle impacts. To reward project teams for selecting products for which the chemical ingredients in the product are inventoried using an accepted methodology and for selecting products verified to minimize the use and generation of harmful substances. To reward raw material manufacturers who produce products verified to have improved life-cycle impacts.

LEED V4 2016 BD+C / ID+C V4 CONSTRUCTION AND DEMOLITION _RECYCLABLE PACKAGING: To reduce construction and demolition waste disposed of in landfills and incineration facilities by recovering, reusing, and recycling materials.

LEED V4 2016 BD+C / ID+C LOW EMITTING _LOW/NO VOC STATEMENT: To reduce concentrations of chemical contaminants that can damage air quality, human health, productivity, and the environment.

IMPORTANT NOTE - *LEED V3 2008, 2009 and LEED V4 criteria for Low-Emitting Materials -VOC's, FloorScore Certification and California Health Services Standard. The following information is provided to address related queries pertaining to Emser Tile products and VOC's, FloorScore certification, as well as California Health Services Standards as described in LEED® Green Building Rating Systems.*

Emser products are not FloorScore certified. However, certification is not needed to satisfy LEED® specifications. The test methodology specified in CA Department of Public Health Standard – Section 01350 is the same one used for the following certifications:

- SCS/RFI FloorScore
- SCS Indoor Advantage, Indoor Advantage Gold
- AQSI/GEI Greenguard, Greenguard - Children & Schools,
- CRI Green Label, Green Label Plus

Due to the manufacturing process of all of our fired floor tiles, the temperatures that these tiles are produced at inherently eliminate the presence of any off-gassing and results in no detectable emissions of Volatile Organic Compounds (VOCs). As such, Emser's floor tiles exceed the requirements of the FloorScore certification.

Hard surface flooring products can contribute to gaining 1 POINT for low-emitting materials in LEED® V3 and V4 rating systems. The credit definition is: "Mineral-based finish flooring products such as tile, masonry, terrazzo, and cut stone without integral organic-based coatings and sealants and unfinished/untreated solid wood flooring qualify for credit without any IAQ testing requirements".

For this reason, it is assumed that ceramic and porcelain floor tiles are negligible sources of VOCs and are available for credit without any testing requirements.

IMPORTANT NOTE - *Individual products are never guaranteed points due to the varying requirements within each credit. For further information regarding LEED and green building programs, as well as the requirements necessary to accrue points, please visit www.usgbc.org.*

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