



LEED

CERTIFICATION

45 West 23rd Street, New York, NY 10010 | Showroom - 212.256.1540
tilebar.com | info@tilebar.com | Client Services - 888.541.3840

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TERRAMAY COLLECTION



THE CONTRIBUTION OF MATERIALS MANUFACTURED BY THE KERABEN GROUP TO THE LEED AND BREEAM SUSTAINABLE BUILDING CERTIFICATIONS

Introduction

In 1987, the Bruntland Commission defined sustainability as the ability to meet the needs of the present without compromising the ability of future generations to meet their own needs.

In the construction field, Sustainable, or Green Buildings are described as efficient infrastructures that have a minimal impact on the environment, by means of integrated design along with proper and innovative decision making. Sustainable buildings also contribute to improving worker productivity, while strengthening the commercial value of the constructions at minimal additional cost.

BREEAM (Building Research Establishment Environmental Assessment Methodology), **and LEED** (Leadership in Energy and Environmental Design) are building sustainability evaluation and certification methods that employ a group of advanced tools and procedures aimed at measuring, evaluating and deliberating on a building's sustainability levels - at the design stage as well as the stages of execution and maintenance. They include the special features of each existing type of use.



Results

SGS has carried out an analysis of the sample of products provided by the **KERABEN GROUP**, and has evaluated their contribution to the BREEAM and LEED sustainable building certificates.

After said analysis **SGS**, has established that, based on the analyzed sample, the **KERABEN GROUP** can contribute to the BREEAM ES and LEED certifications in the following way:

CONTRIBUTION OF THE KERABEN GROUP PRODUCTS TO LEED		
Maximum DIRECT score	6 points	Up to 10 points
Maximum INDIRECT score	4 points	

CONTRIBUTION OF THE KERABEN GROUP PRODUCTS TO BREEAM		
Maximum DIRECT score	9 points	Up to 14 points
Maximum INDIRECT score	5 points	

The LEED and BREEAM ES sustainability seals are building and not product certifications. As such, the scores in the following tables should be understood as the potential score that could be attained.

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Energy Efficiency and
Sustainability Department



LEED

DIRECT score: Score based on documented evidence that the manufacturer can provide

Category	Requirement Id.	Requirement	Objective	Score
Sustainable sites	SS	Heat island effect on non -roof covered elements	To minimize the effects on micro-climates, humans, flora and fauna by reducing the heat island effect.	1
		Heat island effect on roof covered elements		1
Materials and resources	MR	Product environmental declarations	To encourage the use of materials for which a life cycle study has been done and for which said information is available.	1
Interior Environmental Quality	IEQ	Materials with low VOC emissions	To reduce the concentration of chemical pollutants that can damage air quality, human health and the environment.	1 - 3

INDIRECT score: Score based on the features of the product used in the building

Category	Requirement Id.	Requirement	Objective	Score
Efficient use of water	WE	Efficiency with water	To limit or eliminate the use of drinking water or other natural water resources available from surface or underground water on or near the building site for watering of gardens and grounds.	2 - 4



BREEAM ES

DIRECT score: Score based on documented evidence that the manufacturer can provide

Category	Requirement Id.	Requirement	Objective	Score
Health and well being	SyB2	Interior air quality	To recognize and encourage a healthy environment by specifying and installing ventilation systems, equipment and proper finishes.	1
Materials	Mat1	Impacts on the life cycle	To use environmentally friendly materials	1 – 7
	Mat3	Responsible supply of materials	To recognize and promote the specification of materials for the main elements of construction, the supply of which has been done responsibly.	1

INDIRECT score: Score based on the features of the product used in the building

Category	Requirement Id.	Requirement	Objective	Score
Materials	MAT 5	Design focused on impact protection	To recognize and promote proper protection for exposed building parts and landscape elements, thus minimizing the frequency of material replacement.	1
Waste	RSD 1	Construction waste management	To promote the efficient use of resources through the effective and proper management of construction waste.	3
	RSD 4	Floor and wall coverings	To try to make sure that the specification and installation of floor and wall coverings is done by the building occupant, thus avoiding the unnecessary waste of materials.	1