URBAN COAST TILE

Modern Hex

COMPLIANCE WITH CREDITS FOR LEED CERTIFICATION SYSTEM GREEN BUILDING RATING SYSTEMS

LEED COMMERCIAL INTERIORS	
SS Cr.1 Site Selection. Path 5. Heat Island Effect - Roof	1 Point
MR Cr.4 Recycled Content	1-2 Points
MR Cr.5 Regional Materials	1-2 Points
IEQ Cr.4.3. Low emitting materials. Flooring systems	1 Point
LEED RETAIL NEW CONSTRUCTION	
LEED NEW CONSTRUCTION	
LEED CORE & SHELL	
SS Cr.7.1. Heat island effect -nonroof-	1 Points
SS Cr.7.2. Heat island effect -roof-	1 Point
MR Cr.4 Recycled Content	1-2 Points
MR Cr.5 Regional Materials	1-2 Points
IEQ Cr.4.3. Low emitting materials. Flooring systems	1 Point
LEED FOR SCHOOLS	
SS Cr.7.1. Heat island effect -nonroof-	1 Point
SS Cr.7.2. Heat island effect -roof-	1 Point
MR Cr.4 Recycled Content	1-2 Points
MR Cr.5 Regional Materials	1-2 Points
IEQ Cr.4.3. Low emitting materials. Flooring systems	1 Point
IEQ Cr.4.6. Low emitting materials. Ceiling and wall systems	1 Points
LEED EXISTING BUILDINGS	
SS Cr.7.1. Heat island effect -nonroof-	1 Point
SS Cr.7.2. Heat island effect -roof-	1 Point
MR Cr.3. Sustainable Purchasing - facility alterations and additions	1 Point
LEED HEALTHCARE	
SS Cr.7.1. Heat island effect -nonroof-	1 Point
SS Cr.7.2. Heat island effect -roof-	1 Point
MR Cr.3. Sustainably Sourced Materials and products	1-4 Points
IEQ Cr.4. Low emitting Materials	1 Point
LEED FOR HOMES	
SS CR.3 Local Heat Island Effects (roof & nonroof)	1-2 Points
MR Cr.2. Environmentally Preferable Products	0,5-8 Points
LEED NEIGBORHOOD DEVELOPMENT	
GIB Cr.9. Heat Island Reduction	1 Point
LEED RETAIL NEW CONSTRUCTION	
EA-Prerequisite 2. Minimum Energy Performance	Mandatory
EA- Cr. 1 Optimize Energy Performance	1-19 Points
MR Cr 1.2. Building Reuse – Maintain interior non estructural elements	1 Point
MR Cr 3. Materials Reuse	1-2 Points
IEQ Cr. 3.1. Construction Indoor Air Quality Management Plan—During Construction	1 Point
IEQ Cr. 3.2. Construction Indoor Air Quality Management Plan—Before Occupancy	1 Point
LEED FOR SCHOOLS	
EA-Prerequisite 2. Minimum Energy Performance	Mandatory
EA- Cr. 1 Optimize Energy Performance	1-19 Points
MR Cr 3. Materials Reuse	1-2 Points
IEQ Cr. 3.1. Construction Indoor Air Quality Management Plan—During Construction	1 Point
IEQ Cr. 3.2. Construction Indoor Air Quality Management Plan—Before Occupancy	1 Point
LEED FOR SCHOOLS	
EA-Prerequisite 2. Minimum Energy Performance	Mandatory
EA- Cr. 1 Optimize Energy Performance	3-21 Points
MR Cr 1.2. Building Reuse – Maintain interior non estructural elements	1 Point
MR Cr 3. Materials Reuse	1 Point
IEQ Cr. 3.1. Construction Indoor Air Quality Management Plan—During Construction	1 Point

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DIRECT CREDITS

	Sustainable Sites		Materials and Resources		Indoor Environmental Quality	
LEED Commercial Interiors		SS Credit 1: Site Selection. Path 5. Heat Island Effect—Roof **1 Point**	MR Cr4 Recycled Content **1-2 Points**	MR Cr5 Regional Materials **1-2 Points**	IEQ 4.3 Low-emitting materials-Flooring systems **1 Point**	
LEED Retail New Construction	SS Cr 7.1 Heat island effect–nonroof (SRI) **1 Point**	SS Cr 7.2 Heat island effect –Roof (SRI) **1 Point**				
LEED New Construction						
LEED Core & Shell						
LEED for Schools						IEQ 4.6 Low-emitting materials. Ceiling and wall systems **1 Point**
LEED Existing Buildings			MR Cr3 Sustainable purchasing – facility alterations and additions **1 Point**			
LEED Healthcare			MR Credit 3: Sustainably Sourced Materials and Products **1-4 Points**		IE Q Credit 4: Low-Emitting Materials **1-4 Points**	
LEED for homes	SS 3. Local Heat Island Effects **2 Points:** 1 point (roof);1 point (non-roof)		Environmentally Preferable Products **0,5-8 Points**			

	Green Infrastructure and Buildings
LEED Neighborhood Development	Credit 9: Heat Island Reduction **1 Point**

INDIRECT CREDITS

Energy and Atmosphere	Materials and Resources	Indoor Environmental Quality
EA-Prerequisite 2. Minimum Energy Performance **Mandatory**	MR Cr 1.2. Building Reuse – Maintain interior non structural elements **1 Point**	IEQ Cr. 3.1. Construction Indoor Air Quality Management Plan—During Construction **1 Point**
EA- Cr. 1 Optimize Energy Performance **1-19 Points**	MR Cr 3. Materials Reuse **1-2 Points**	IEQ Cr. 3.2. Construction Indoor Air Quality Management Plan—Before Occupancy **1 Point**
EA-Prerequisite 2. Minimum Energy Performance **Mandatory**		
EA- Cr. 1 Optimize Energy Performance **3-21 Points**	MR Cr 3. Materials Reuse **1 Point**	IEQ Cr. 3. Construction Indoor Air Quality Management Plan—During Construction **1 Point**

URBAN COAST TILE

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ENVIRONMENTALLY RESPONSIBLE CHOICE

CREDITS FOR LEED

Product: **MODERN HEX NATURAL HEXAGON 29X25 cm**
Classification: BIa

HEAT ISLAND EFFECT

- SS.Cr.7.1. Head Island Effect - nonroof
- SS.Cr.7.2. Head Island Effect - Roof

SRI **-**

REGIONAL MATERIAL

The water used in the preparation of raw materials and ceramic tiles manufacturing is extracted from wells located in our facilities.

Construction materials or products transported by road, rail, or water have been extracted, harvested, or recovered, as well as manufactured, within a 500 mile (800 km) total travelling distance from the project site. The distance travelled is calculated using a weighted average considering means of transport.

96,5 %	*591 km*

Addenda LEED, 07/06/2012

RECYCLED CONTENT

Pre-consumer Recycled Content, including water and minerals

24,4 %

LOW-EMITTING MATERIAL

Products that are inherently non-emitting sources of VOC- specifically ceramic and others, are considered fully compliant without any VOC emission testing if they do not include integral organic based surface coatings, binders, or sealants

Addenda LEED, 14/4/2010

INDIRECT CREDITS

- EA.PR2. Minimum Energy Performance
- EA.Cr1. Optimize Energy Performance
- MR.Cr1.2. Building Reuse - Maintain non structural elements
- MR.Cr3. Materials Reuse
- IEQ.Cr.3.1. Construction Indoor Air Quality Management Plan During Construction
- IEQ.Cr.3.2. Construction Indoor Air Quality Management Plan Before Occupancy

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*These data have been obtained with **CoverLEED by ITC**, a tool developed and adapted by Instituto de Tecnología Cerámica. The data have been verified by Instituto de Tecnología Cerámica on xx/xx/xxxx*

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URBAN COAST TILE

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RECYCLED CONTENT
SELF-DECLARED ENVIRONMENTAL CLAIM, according to ISO 14021

Product: **MODERN HEX NATURAL HEXAGON 29X25 cm**
Classification: BIa

Pre-consumer Recycled Content, including water and minerals

49 %

PRODUCT	
Total water content (kg)	10,2
Total mineral content (kg)	21,6
Fresh water content (kg)	0,4
Virgin mineral content (kg)	15,8
Pre-consumer recycled water content (kg)	9,7
Pre-consumer recycled mineral content (kg)	5,7
Pre-consumer recycled content (%)	**48,7**
RECYCLED CONTENT (%) Recycled content = post-consmer + 0,5 pre-consumer	**24,4**

Data for 1sqm

LEED Ranking Systems:	
Commercial	MR Cr.4 Recycled Content
Retail New	
New Construction	
Core&Shell	
Schools	
Existing Buildings	MR Cr.3 Sustainable purchasing
Healthcare	MR Cr.3: Sustainably Sourced Materials and Products
Homes	MR Cr.2. Environmentally Preferable Products

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URBAN COAST TILE

Modern Hex

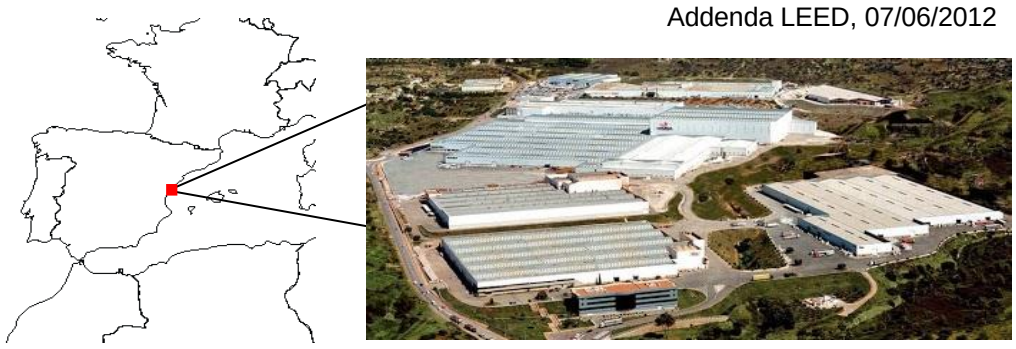
REGIONAL MATERIAL
SELF-DECLARED ENVIRONMENTAL CLAIM, according to ISO 14021

Product: **MODERN HEX NATURAL HEXAGON 29X25 cm**
Classification: Bla
Manufacturing Site:
Carretera Castellón – San Juan de Moró, km 0.75, 12130 San Juan de Moró (Castellór
Project Site: DELAWARE (USA)

Construction materials or products transported by road, rail, or water have been extracted, harvested, or recovered, as well as manufactured, within a 500 mile (800 km) total travelling distance from the project site. The distance travelled is calculated using a weighted average determined from the following formula:

(Distance by rail/3) + (Distance by inland waterway/2) + (Distance by sea/15) + (Distance by all other means) ≤ 500 miles [800 km]"

Addenda LEED, 07/06/2012



Distance of raw materials (km)	150
Distance from factory to building (km)	442
DISTANCE OF THE PROJECT SITE (km)	**591**
REGIONAL MATERIALS (%)	**96,5**

Data for 1sqm

LEED Ranking Systems:	
Commercial Interiors	MR Cr5 Regional Materials
Retail New Construction	
New Construction	
Core&Shell	
Schools	
Existing Buildings	MR Cr.3 Sustainable purchasing
Healthcare	MR Cr.3: Sustainably Sourced Materials and Products
Homes	MR Cr.2. Environmentally Preferable Products

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URBAN COAST TILE

Modern Hex

LOW -EMITTING MATERIALS

SELF-DECLARED ENVIRONMENTAL CLAIM, according to ISO 14021

Product: **MODERN HEX NATURAL HEXAGON 29X25 cm**
Classification: BIa

Tile is fired at very high temperatures, usually in excess of 1,800°F. At such high temperatures, any organics that might be present in clays or binders are completely burned away. As a result, the final product is inert and has no VOCs that can be emitted.

Due to its VOC-free nature, ceramic and porcelain tile products are exempt from all testing criteria specified by LEED®. These exemptions were first introduced in the document addenda issued by USGBC in April, 2010

Addenda LEED, 14/04/2010

LEED Ranking Systems:	
Commercial Interiors	IEQ 4.3 Low-emitting materials-Flooring systems
Retail New Construction	
New Construction	
Core&Shell	
Schools	
Healthcare	IE Q Credit 4: Low-Emitting Materials
Schools	IEQ 4.6 Low-emitting materials. Ceiling and wall systems
Healthcare	IE Q Credit 4: Low-Emitting Materials

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MR. Credit 1.2. Building Reuse-Maintain interior nonstructural elements
MR. Credit 1.3. Materials Reuse
IEQ Credit 3.1.Construction Indoor Air Quality Management Plan - During Construction
IEQ Credit 3.1.Construction Indoor Air Quality Management Plan - Before occupancy

Product: **MODERN HEX NATURAL HEXAGON 29X25 cm**
Classification: Bla

Chemical and physical properties*	
Water absorption (UNE-EN ISO 10545-3)	≤ 0,2%
Breaking strength (UNE-EN ISO 10545-4)	≥ 2200 N
Flesural tensile strength (UNE-EN ISO 10545-4)	≥ 42 N/mm^2
Resistance to surface abrasion (UNE-EN ISO 10545-7)	CLASS 4
Thermal expansion coefficient (UNE-EN ISO 10545-8)	6,1-6,9x10^{-6} ($ºC^{-1}$)
Thermal shock resistance (UNE-EN ISO 10545-9)	*Resists*
Frost resistance (UNE-EN ISO 10545-12)	*Resists*
Chemical resistence (UNE-EN ISO 10545-13) Resistance to household chemicals and swimming pool slats	*GA*
Resistance to staining(UNE-EN ISO 10545-14)	5
Lifetime	*More than 50 years*

Due to physical and chemical properties of the tiles, not requirements for storage are needed

Pollutant	*Ceramic tiles advantages*
Formaldehyd	*No formaldehyd emissions*
Particulate matter (PM_{10})	*Wet saws and cutters snap avoid particle emissions*
Total Organic Compounds	*No COV emissions*
4- Phenocyclohexene	*Not applicable*
Carbon monoxide (CO)	*No CO emissions are generated in the instalation*