

Amira Specs



TECHNICAL SPECIFICATIONS

Porcelain tiles



Glossy tiles

Group: Blb

(Water absorption between 0.5% $E \le 3\%$)

Natural tiles

Group: Bla

(Water absorption <math>< 0.5\%</math>)

N^o 6
of changes:



Thickness
0.41"
24"x24"

Shade variation:
N^o V2



Slight

Technical features glazed porcelain stoneware.

Conforming to Standards EN 14411 ISO 9001:2008 APP. G (Group Bla GL)



WATER
ABSORPTION
ISO 10545-3



MODULUS OF
RUPTURE
ISO 10545-4



UNE-EN-ISO
10545-7

NATURAL

Bla $E \le 0.5\%$
ACCORDING

>1300N
ACCORDING

REQUIRED
IV

GLOSSY

Bla $0.5\% < E \le 3\%$
ACCORDING

>1100N
ACCORDING

REQUIRED
III



UNE-EN-ISO
10545-13
LOW
CONCENTRATION



UNE-EN-ISO
10545-13
HIGH
CONCENTRATION



UNE-EN-ISO
10545-13
DOMESTIC
CHEMICAL

NATURAL

REQUIRED
GLB

REQUIRED
GHB

REQUIRED
GLB

GLOSSY

REQUIRED
GLA

REQUIRED
GHB

REQUIRED
GLB



UNE-ENV
2633:2003



UNE-EN
67101



ASTM TEST
C-1028-96

NATURAL

CLASS 1
(Interior use only) 4

Dry: 0.70
Wet: 0.60

GLOSSY

CLASS 1
(Interior use only) 3

Dry: 0.70
Wet: 0.40

ISO 10545-3: Determining water absorption.

UNE-ENV 2633:2003: Determining slip resistance.

UNE-EN-ISO 10545-13:

Determining resistance to cleaning products and swimming pool reagents.

UNE-EN-ISO 10545-7: Determining resistance to the surface abrasion.

UNE-EN 67101: Determining resistance to scratch.

ASTM C-1028-96: Determining coefficient of friction.



HAPPY FLOORS **GREEN** TILE COLLECTION

Happy Floors is pleased to be a nationwide distributor of porcelain tile, which is considered green within the industry. It is very important to first identify what attributes make tile eco-friendly or Green.

In general ceramic / porcelain tiles are inherently green because they do not contain VOC's (Volatile Organic Compounds), are low maintenance, and have a long life cycle.

The Italian tile industry is known as the world leader in design and technology. Italian tile manufactures also are very environmentally conscious and take multiple steps to reduce their carbon footprint. In general majority of Italian tiles contain recycled materials. The amount of impact on the environment will vary from factory to factory and tile to tile. Manufactures may have their products tested in order to determine the amount of pre & post consumer recycled material found in each tile. The amount of recycled content can vary greatly from light to dark colors within one type of tile series.

The Happy Floors porcelain tile collection is 95% Italian made.

Architects have taken the green movement to the next level by requiring that tile products be certified in order to be used for certain projects. The ultimate goal is for a project to receive an eco-friendly status. The US Green Buildings Council (USGBC) is one organization that helps set guidelines for building green. The USGBC has established LEED (Leadership in Energy and Environmental Design) as a reference guide. "LEED certification provides independent, third-party verification that a building project meets the highest green building and performance measures. All certified projects receive a LEED plaque, which is the nationally recognized symbol demonstrating that a building is environmentally responsible, profitable and a healthy place to live and work." www.usgbc.org.

It is important to note that individual tile products can not be LEED certified but that tile ultimately helps a finished building earn LEED points.

Happy Floors is a USGBC member and offers certified products to help projects earn LEED points.



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