







*marrakesh*  
**ALOE**

BEPMAAL44



- 4x4 -

BEPMAALBN



- 1.5x4 jolly -



*marrakesh*  
**ARCTIC**

BEPMAAR44



- 4x4 -

BEPMAARBN



- 1.5x4 jolly -



*marrakesh*  
**BLACK**



BEPMABK44



- 4x4 -

BEPMABKBN



- 1.5x4 jolly -

*marrakesh*  
**BLUE**



BEPMABL44



- 4x4 -

BEPMABLBN



- 1.5x4 jolly -





*marrakesh*  
**BREEZE**

BEPMABR44



- 4x4 -

BEPMABRBN



- 1.5x4 jolly -



*marrakesh*  
**CLAY**

BEPMACL44



- 4x4 -

BEPMACLBN



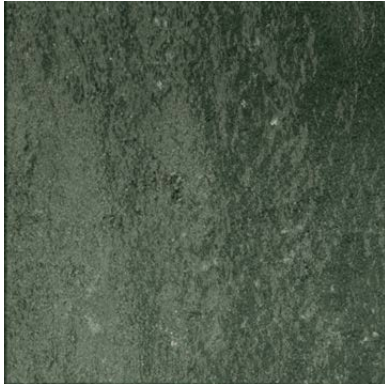
- 1.5x4 jolly -





*marrakesh*  
**FOREST**

BEPMAFO44



- 4x4 -

BEPMAFOBN



- 1.5x4 jolly -



*marrakesh*  
**OCEAN**

BEPMAOC44



- 4x4 -

BEPMAOCBN



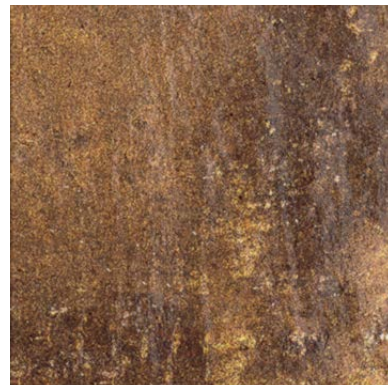
- 1.5x4 jolly -



*marrakesh*  
**SIENNA**



BEPMASI44



- 4x4 -

BEPMASIBN



- 1.5x4 jolly -

*marrakesh*  
**WHITE**



BEPMAWH44



- 4x4 -

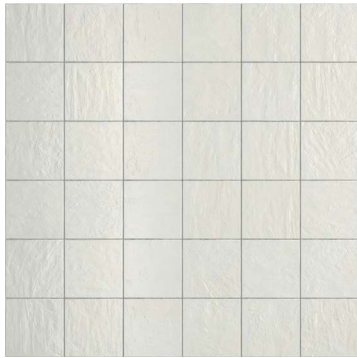
BEPMAWHBN



- 1.5x4 jolly -

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*marrakesh*  
**COLOR  
VARIATIONS**



WHITE



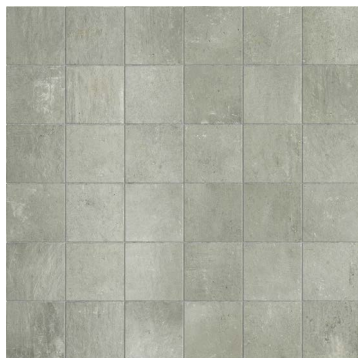
CLAY



SIENNA



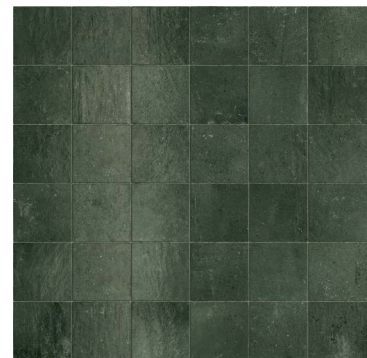
BLACK



BREEZE



ALOE



FOREST



ARCTIC



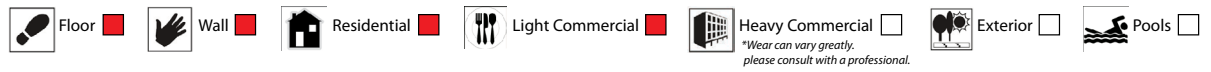
OCEAN



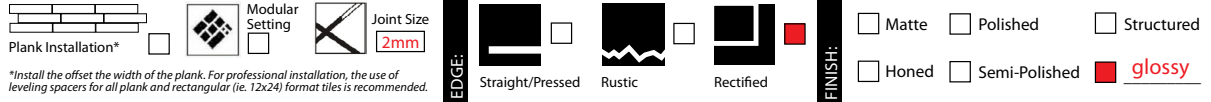
BLUE



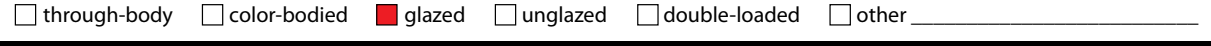
## Suggested Applications



## Installation Suggestions



## Porcelain Type



## Shade Variation



## Slip Resistance

DCOF	Values	Applications
	0.42	Recommended Standard DCOF value for wet/dry commercial flooring
	0.65	Recommended Standard DCOF value for ADA ramps

DIN 51130. \*R9: Industry Standard/ADA Requirements \*\*R11: Recommended For Exteriors

R9\* (3-10°)  R10 (10-19°)  R11\*\* (19-27°)  
 R12 (27-35°)  R13 (>35°)

ASTM C-1028  
ANSI A137.1  
DIN 51097/51130

DIN 51097

Class	Typical Applications	Critical Angle
<input checked="" type="checkbox"/> A	Barefoot, but mainly dry aisles and walkways, dry changing areas	≥12°
<input type="checkbox"/> B	Shower rooms, pool surrounds, wet changing areas, disinfectant spray areas (plus all Class A areas)	≥18°
<input type="checkbox"/> C	Areas constantly under water, e.g. steps into pools, foot baths, included pool surrounds, jacuzzis (plus all Class A&B areas)	≥24°

## Scratch Resistance

MOH'S SCALE  
UNI EN ISO  
10545.6

### MINERAL

- |                            |                                   |
|----------------------------|-----------------------------------|
| 1. Talc (Talc)             | 6. Microline (Glass, Glazed Tile) |
| 2. Gypsum (Fingernail)     | 7. Quartz (Unglazed Porcelain)    |
| 3. Calcite (Penny)         | 8. Topaz (Granite)                |
| 4. Fluorite (Some Marbles) | 9. Corundum (Ruby)                |
| 5. Apatite (Knife Blade)   | 10. Diamond (Diamond)             |
- Industry standard ≤175mm<sup>2</sup>

## Wear Resistance

PEI RATING  
UNI EN ISO  
10545.7

- Class 1: Walls only  
 Class 2: Residential floors w/minimal abrasive traffic  
 Class 3: Residential interiors/light commercial traffic  
 Class 4: Medium commercial applications  
 Class 5: All commercial applications/heavy traffic
- \*Wear can vary greatly. please consult with a professional.*

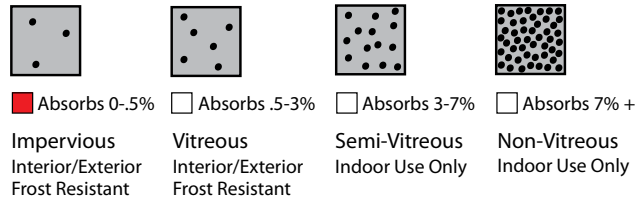
## Stain Resistance

ASTM C1378-04  
UNI EN ISO  
10545.14

- 5: Removed after 5 minutes (hot water running)  
 4: Removed by manual cleaning (weak detergent)  
 3: Removed by mechanical cleaning (strong detergent)  
 2: Removed by immersion (24 hrs in suitable solvent)  
 1: Stain not removed

## Water Absorption

ASTM C-373  
UNI EN ISO  
10545.3



## Breaking Strength

ASTM C648  
UNI EN ISO  
10545.4



Industry standard should be greater than 250 lbs or 50 N/MM<sup>2</sup>

## Facial Dimension

ASTM c499-09  
UNI EN ISO  
10545.02

Standard	Tolerance	Result
flatness	±5mm	±.5% PASS
thickness	±6mm	±.5% PASS
straightness	±4.5mm	±.5% PASS
squareness	±5.4mm	±.6% PASS
sides L/W	±1.1mm / ±4.5mm	±.5% PASS

## Chemical Resistance

ASTM C650  
UNI EN ISO  
10545.13

Allowances for:

	result
Acid	<input type="checkbox"/>
Bases	<input type="checkbox"/>
Chemicals	<input type="checkbox"/>

## Lead Information



REQUIREMENTS FOR COMMERCIAL INTERIORS/NEW CONSTRUCTION

Sustainable Sites	1 Point
Site selection SS CREDIT 1 Heat Island Effect-non roof Material with a solar reflectant index of at least 29.	<input checked="" type="checkbox"/>
Energy & Atmosphere	1 Point
EA CREDIT 4 Green Power: Products that optimize energy performance for floors and walls using thermal conductivity. BTU-FT	<input checked="" type="checkbox"/>
Indoor Environmental Quality	1 Point
Low-Emitting Materials-Flooring Systems IEQ CREDIT 3.1-7 Green Cleaning: Reducing occupants exposure to hazardous cleaning chemicals.	<input checked="" type="checkbox"/>
IEQ CREDIT 4.1 Low Emitting Adhesives: Products less than 65 G/L VOC	<input checked="" type="checkbox"/>
IEQ CREDIT 4.3 Low Emitting Materials: Flooring systems.	<input checked="" type="checkbox"/>

Materials & Resources	1 Point	2 Points
M&R CREDIT 2 Construction Waste Management: Recycling salvaged construction waste in to new reusable materials.	50% <input type="checkbox"/>	70% <input checked="" type="checkbox"/>
M&R CREDIT 4.1-4.2 Recycled Content: The sum of post consumer plus 1/2 of the pre consumer reps at least 10-20% of total value of materials.	10% <input type="checkbox"/>	20% <input checked="" type="checkbox"/>
M&R CREDIT 5 Regional Materials: Materials manufactured within 500 miles of the project site.	10% <input type="checkbox"/>	20% <input checked="" type="checkbox"/>
Innovation in Design	1-5 Points	
ID CREDIT 1 Innovation in Design Measurable exemplary environmental performance.	<input checked="" type="checkbox"/>	

Type: **Porcelain Stoneware**

Product Line: **MARRAKESH**

*\*The marketing name for this product is property of IDEAL Tile & Stone. This same product may be marketed under different names.\**