

# Royal Stone

porcelain stoneware



**COBSA-USA**

NEW YORK | NEW JERSEY | MIAMI

PORCELAIN STONEWARE



DOM ROCO 24



| 24 x 24 |

DOM ROCO 1224



| 12 x 24 |



DOM ROCO 12



| 12 x 12 |

DOM ROCO BN314



*bullnose* | 3 x 14 |

DOM ROCO HEX10



| 10 x 10 |  
*hexagon*

DOM ROCO 314



| 3 x 14 |

DOM ROCO MOS22



12x12 sheet

*mosaic* | 2 x 2 |

PORCELAIN STONEWARE



DOM ROHA 24



| 24 x 24 |

DOM ROHA 1224



| 12 x 24 |

# Havana



DOM ROHA 12



| 12 x 12 |

DOM ROHA BN314



*bullnose*

| 3 x 14 |

DOM ROHA HEX10



| 10 x 10 |

*hexagon*

DOM ROHA 314



| 3 x 14 |

DOM ROHA MOS22



12x12 sheet

*mosaic*

| 2 x 2 |

PORCELAIN STONEWARE



DOM ROLU 24



| 24 x 24 |

DOM ROLU 1224



| 12 x 24 |



DOM ROLU 12



| 12 x 12 |

DOM ROLU BN314



*bullnose*

| 3 x 14 |

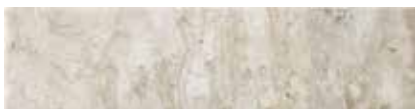
DOM ROLU HEX10



| 10 x 10 |

*hexagon*

DOM ROLU 314



| 3 x 14 |

DOM ROLU MOS22



12x12 sheet

*mosaic*

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PORCELAIN STONEWARE



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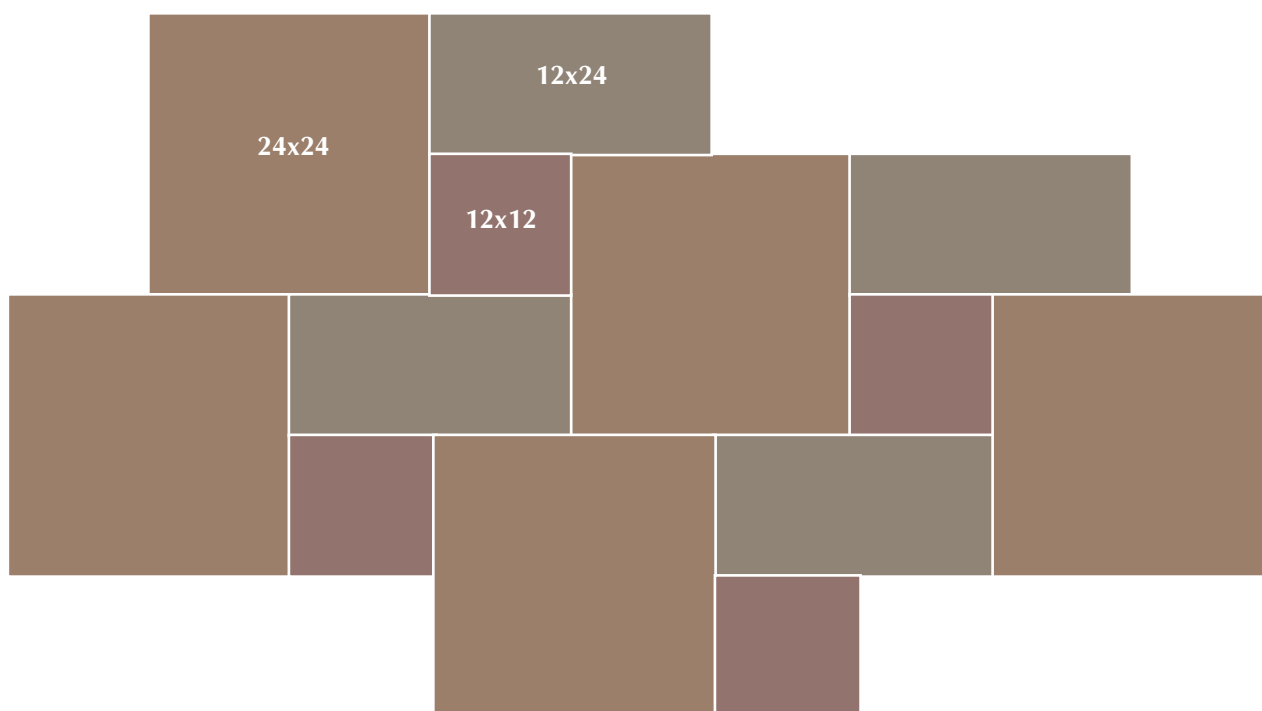


12x12 sheet

*mosaic*

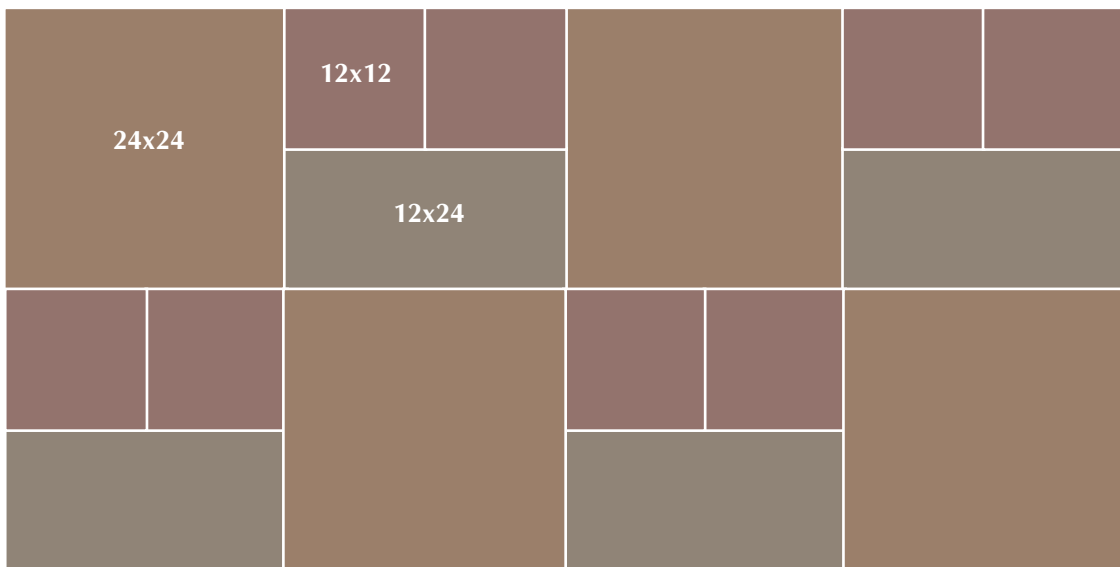
| 2 x 2 |

# PORCELAIN STONEWARE



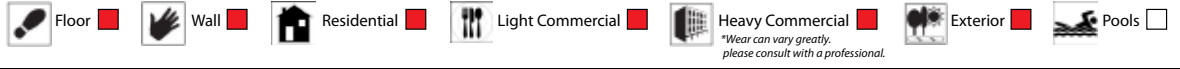
24x24 = 57% | 12x24 = 29% | 12x12 = 14%

# Laying Patterns



24x24 = 50% | 12x24 = 25% | 12x12 = 25%

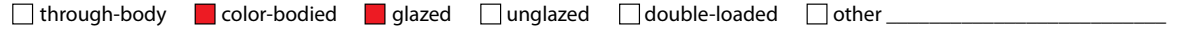
## Suggested Applications



## Installation Suggestions



## Porcelain Type



## Shade Variation



## Slip Resistance

DCOF	Values	Applications
<input type="checkbox"/>	0.42	Recommended Standard DCOF value for wet/dry commercial flooring
<input checked="" type="checkbox"/>	0.65	Recommended Standard DCOF value for ADA ramps

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

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

<input type="checkbox"/> R9* (3-10°)	<input checked="" type="checkbox"/> R10 (10-19°)	<input type="checkbox"/> R11** (19-27°)
<input type="checkbox"/> R12 (27-35°)	<input type="checkbox"/> R13 (>35°)	

### DIN 51097

Class	Typical Applications	Critical Angle
<input type="checkbox"/> A	Barefoot, but mainly dry aisles and walkways, dry changing areas	≥12°
<input checked="" type="checkbox"/> B	Showers 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

8

MINERAL	
1. Talc (Talc)	6. Microline (Glass, Glazed Tile)
2. Gypsum (Fingernail)	7. Quartz (Unglazed Porcelain)
3. Calcite (Penny)	8. Topaz (Granite)
4. Flourite (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

- 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

Absorbs 0-.5%	Absorbs .5-3%	Absorbs 3-7%	Absorbs 7% +
<input checked="" type="checkbox"/> Impervious Interior/Exterior Frost Resistant	<input type="checkbox"/> Vitreous Interior/Exterior Frost Resistant	<input type="checkbox"/> Semi-Vitreous Indoor Use Only	<input type="checkbox"/> Non-Vitreous Indoor Use Only

## Breaking Strength

ASTM C648  
UNI EN ISO  
10545.4

>35 n/mm<sup>2</sup>

Industry standard should be greater than 250 lbs or 50 N/MM2

## Facial Dimension

ASTM C499-09  
UNI EN ISO  
10545.02

	Standard	Tolerance	Result
flatness	±5mm	±.5%	<input type="checkbox"/>
thickness	±6mm	±.5%	<input type="checkbox"/>
straightness	±4.5mm	±.5%	<input type="checkbox"/>
squareness	±5.4mm	±.6%	<input type="checkbox"/>
sides L/W	±1.1mm ±4.5mm	±.5%	<input type="checkbox"/>

## Chemical Resistance

ASTM C650  
UNI EN ISO  
10545.13

Allowances for:

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

## Leed 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 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 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 type="checkbox"/>
IEQ CREDIT 4.1 Low Emitting Adhesives: Products less than 65 G/L VOC	<input type="checkbox"/>
IEQ CREDIT 4.3 Low Emitting Materials: Flooring systems.	<input 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 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 type="checkbox"/>
M&R CREDIT 5 Regional Materials: Materials manufactured within 500 miles of the project site.	10% <input type="checkbox"/>	20% <input type="checkbox"/>
Innovation in Design	1-5 Points	
ID CREDIT 1 Innovation in Design Measurable exemplary environmental performance.	<input type="checkbox"/>	

Type: **Porcelain Stoneware**  
Product Line: **ROYAL STONE**

*\*The marketing name for this product is property of Cobsa-USA. This same product may be marketed under different names.\**