

ROYAL

porcelain stoneware



COBSA USA

NEW YORK | NEW JERSEY | MIAMI

CALACATTA GOLD

Royal

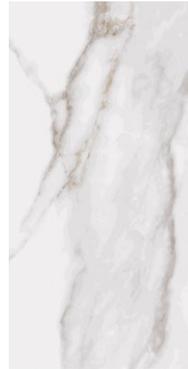


M ELEROCG2448
P ELEROCG2448L



- 24x48 -

M ELEROCG1224
P ELEROCG1224L



- 12x24 -

M ELEROCG24



- 24x24 -

M ELEROCGMOS22



- 2x2 mosaic -

M ELEROCGHEX



- hex mosaic -

M ELEROCGHER



- herringbone -

M ELEROCGWEAVE



- basketweave -

M ELEROCGBN224
P ELEROCGBN224L



- 2x24 bullnose -

M = MATTE FINISH
P = POLISHED FINISH

Royal

DOLOMITE



M ELERODO2448
 P ELERODO2448L



- 24x48 -

M ELERODO1224
 P ELERODO1224L



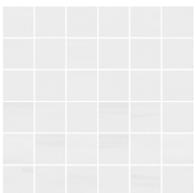
- 12x24 -

M ELERODO24



- 24x24 -

M ELERODOMOS22



- 2x2 mosaic -

M ELERODOHEX



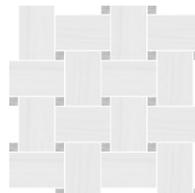
- hex mosaic -

M ELERODOHER



- herringbone -

M ELERODOWEAVE



- basketweave -

M ELERODOBN224
 P ELERODOBN224L



- 2x24 bullnose -

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STATUARIO

Royal



M ELEROST2448
P ELEROST2448L



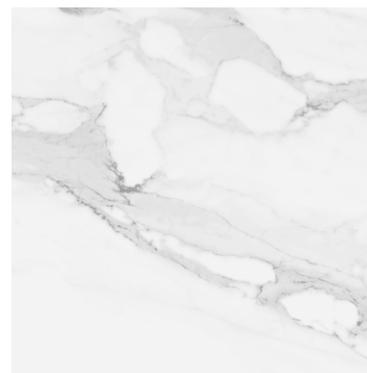
- 24x48 -

M ELEROST1224
P ELEROST1224L



- 12x24 -

M ELEROST24



- 24x24 -

M ELEROSTMOS22



- 2x2 mosaic -

M ELEROSTHEX



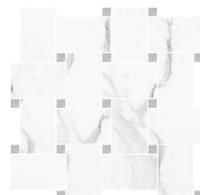
- hex mosaic -

M ELEROSTHER



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- 2x24 bullnose -

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Royal



calacatta gold



Royal



dolomite

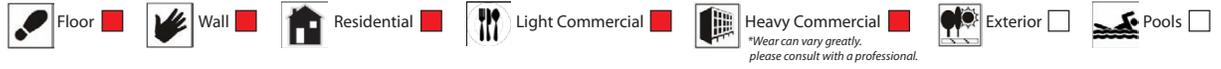


Royal



statuario

Suggested Applications



Installation Suggestions

Plank Installation* Modular Setting Joint Size **2mm**

*Install the offset the width of the plank. For professional installation, the use of leveling spacers for all plank and rectangular (ie. 12x24) format tiles is recommended.

EDGE: Straight/Pressed Rustic Rectified

FINISH: Matte Polished Structured
 Honed Semi-Polished _____

Porcelain Type

through-body color-bodied glazed unglazed double-loaded other _____

Shade Variation

V1 Uniform Appearance V2 Slight Variation V3 Moderate Variation V4 Substantial Variation

THICKNESS: 12x24=9.5mm 24x24=10.5mm
 # OF FACES: 12x24=64 24x24=32 24x48=17

Slip Resistance

DCOF Values Applications

0.42	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°)

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°

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

Scratch Resistance

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 ≤175mm²

MOH'S SCALE
 UNI EN ISO 10545.6 **6**

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

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

ASTM C1378-04
 UNI EN ISO 10545.14 **5**

Water Absorption

ASTM C-373
 UNI EN ISO 10545.3

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

Breaking Strength

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

ASTM C648
 UNI EN ISO 10545.4 **>50N**

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 **PASS**
 Bases **PASS**
 Chemicals **PASS**

Lead Information

REQUIREMENTS FOR COMMERCIAL INTERIORS/NEW CONSTRUCTION

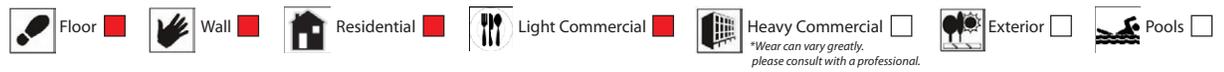
Sustainable Sites	1 Point	2 Points
Site selection SS CREDIT 1 Heat Island Effect-non roof Material with a solar reflectant index of at least 29.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Energy & Atmosphere EA CREDIT 4 Green Power: Products that optimize energy performance for floors and walls using thermal conductivity. BTU-FT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Indoor Environmental Quality Low-Emitting Materials-Flooring Systems IEQ CREDIT 3.1-7 Green Cleaning: Reducing occupants exposure to hazardous cleaning chemicals.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
IEQ CREDIT 4.1 Low Emitting Adhesives: Products less than 65 G/L VOC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
IEQ CREDIT 4.3 Low Emitting Materials: Flooring systems.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Materials & Resources 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 ID CREDIT 1 Innovation in Design Measurable exemplary environmental performance.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Type: **Porcelain (matte)**

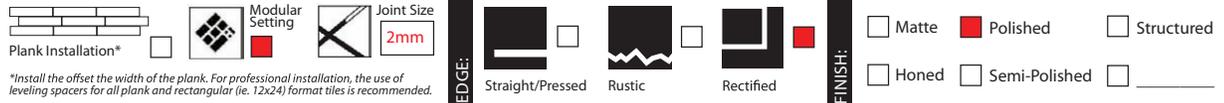
Product Line: **Royal**

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

Suggested Applications



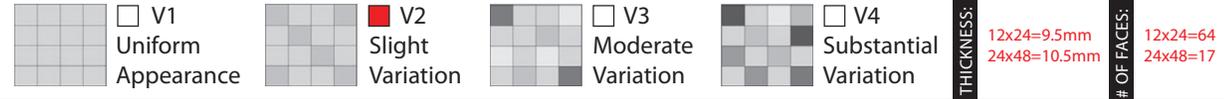
Installation Suggestions



Porcelain Type



Shade Variation



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

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UNI EN ISO 10545.6

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UNI EN ISO 10545.13

Allowances for:	result
Acid	PASS
Bases	PASS
Chemicals	PASS

Leed Information



REQUIREMENTS FOR COMMERCIAL INTERIORS/NEW CONSTRUCTION

Category	Requirement	Points
Sustainable Sites	Site selection	1 Point
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Energy & Atmosphere	EA CREDIT 4 Green Power: Products that optimize energy performance for floors and walls using thermal conductivity. BTU-FT	1 Point
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Indoor Environmental Quality	Low-Emitting Materials-Flooring Systems	1 Point
	IEQ CREDIT 3.1-7 Green Cleaning: Reducing occupants exposure to hazardous cleaning chemicals.	<input checked="" type="checkbox"/>
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Innovation in Design	ID CREDIT 1 Innovation in Design Measurable exemplary environmental performance.		1-5 Points <input checked="" type="checkbox"/>

Type: **Porcelain (polished)**

Product Line: **Royal**

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