

ROYAL

porcelain stoneware



COBSAUSA

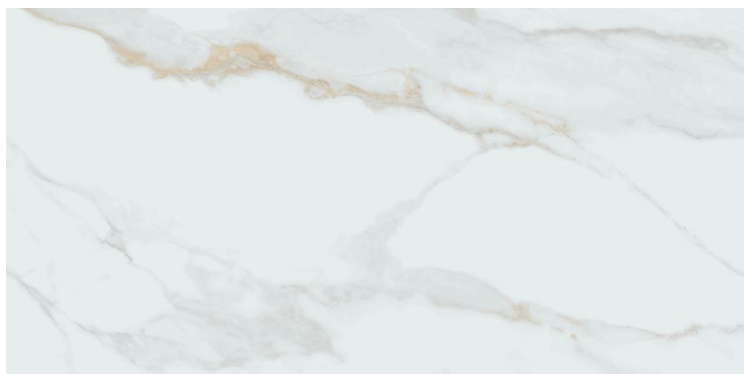
NEW YORK | NEW JERSEY | MIAMI

CALACATTA GOLD

Royal

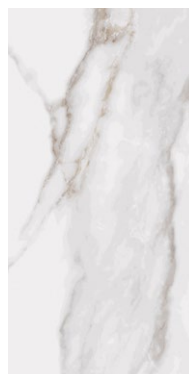


M ELEROCG2448
P ELEROCG2448L



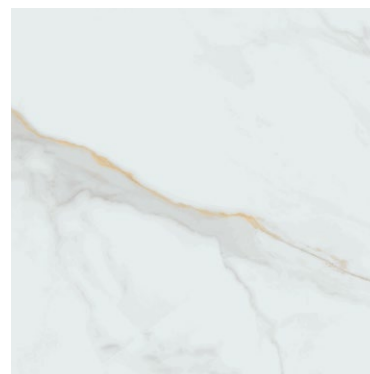
- 24x48 -

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



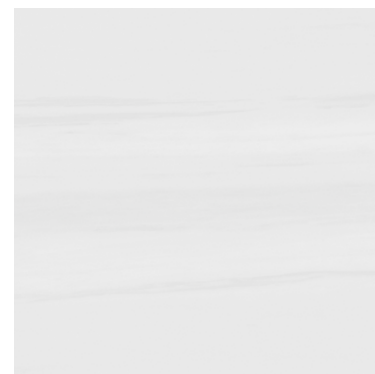
- 24x48 -

M ELERODO1224
P ELERODO1224L



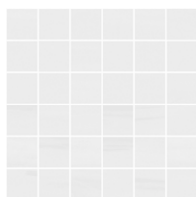
- 12x24 -

M ELERODO24



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M ELERODOMOS22



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M ELERODOHER



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P ELERODOBN224L



- 2x24 bullnose -

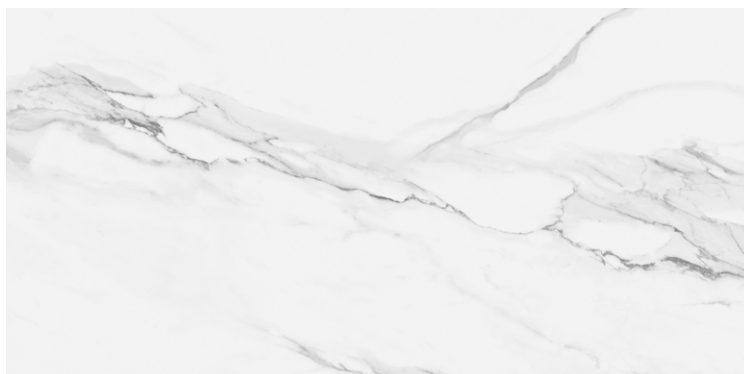
M = MATTE FINISH
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STATUARIO

Royal



M ELEROST2448
P ELEROST2448L



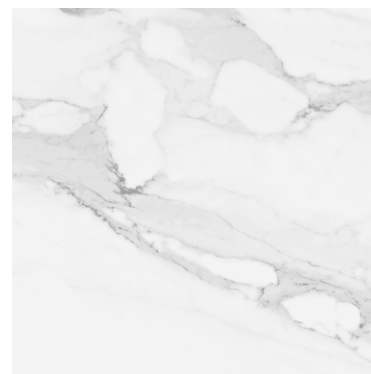
- 24x48 -

M ELEROST1224
P ELEROST1224L



- 12x24 -

M ELEROST24



- 24x24 -

M ELEROSTMOS22



- 2x2 mosaic -

M ELEROSTHEX



- hex mosaic -

M ELEROSTHER



- herringbone -

M ELEROSTWEAVE



- basketweave -

M ELEROSTBN224
P ELEROSTBN224L



- 2x24 bullnose -

M = MATTE FINISH
P = POLISHED FINISH



Royal



calacatta gold



Royal



dolomite

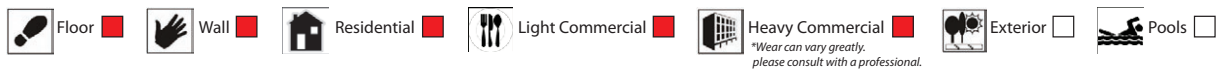


Royal



statuario

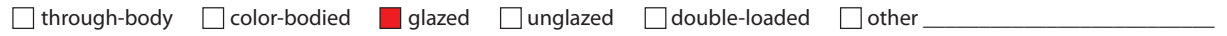
Suggested Applications



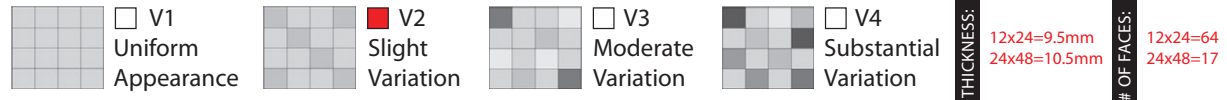
Installation Suggestions



Porcelain Type



Shade Variation



Slip Resistance

DCOF	Values	Applications	DIN 51097
0.42	0.42	Recommended Standard DCOF value for wet/dry commercial flooring	Class A
0.65	0.65	Recommended Standard DCOF value for ADA ramps	Class B
			Class C

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

DIN 51130: R9* (3-10°), R10 (10-19°), R11** (19-27°), R12 (27-35°), R13 (>35°). *R9: Industry Standard/ADA Requirements, **R11: Recommended For Exteriors.

DIN 51097 Table:

Class	Typical Applications	Critical Angle
A	Barefoot, but mainly dry aisles and walkways, dry changing areas	≥12°
B	Shower rooms, pool surrounds, wet changing areas, disinfectant spray areas (plus all Class A areas)	≥18°
C	Areas constantly under water, e.g. steps into pools, foot baths, inclined 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 ²	

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

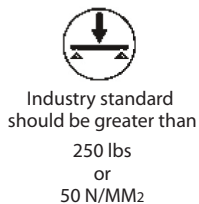
Water Absorption

ASTM C-373
UNI EN ISO 10545.3

Absorbs 0-.5%	Absorbs .5-3%	Absorbs 3-7%	Absorbs 7% +
Impervious Interior/Exterior Frost Resistant	Vitreous Interior/Exterior Frost Resistant	Semi-Vitreous Indoor Use Only	Non-Vitreous Indoor Use Only

Breaking Strength

ASTM C648
UNI EN ISO 10545.4



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

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.	
Energy & Atmosphere	1 Point
EA CREDIT 4 Green Power: Products that optimize energy performance for floors and walls using thermal conductivity. BTU-FT	
Indoor Environmental Quality	1 Point
Low-Emitting Materials-Flooring Systems	
IEQ CREDIT 3.1-7 Green Cleaning: Reducing occupants exposure to hazardous cleaning chemicals.	
IEQ CREDIT 4.1 Low Emitting Adhesives: Products less than 65 G/L VOC	
IEQ CREDIT 4.3 Low Emitting Materials: Flooring systems.	

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 (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

Floor ☒Wall ☒Residential ☒Light Commercial ☒Heavy Commercial ☐
*Wear can vary greatly. please consult with a professional.Exterior ☐Pools ☐

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 ☒

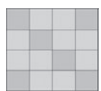
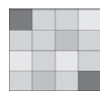
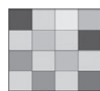
FINISH:

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
24x48=10.5mm

OF FACES:

12x24=64
24x48=17

Slip Resistance

DCOF



Values

0.42

Applications

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

☒ A

Barefoot, but mainly dry aisles and walkways, dry changing areas

≥12°

☐ BShower rooms, pool surrounds, wet changing areas,
disinfectant spray areas (plus all Class A areas)

≥18°

☐ CAreas constantly under water, e.g. steps into pools, foot baths,
inclined pool surrounds, jacuzzis (plus all Class A&B areas)

≥24°

ASTM C-1028
ANSI A137.1
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Scratch Resistance

MOH'S SCALE
UNI EN ISO
10545.6

6

MINERAL

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2. Gypsum (Fingernail)
3. Calcite (Penny)
4. Flourite (Some Marbles)
5. Apatite (Knife Blade)

Industry standard ≤175mm²

6. Microline (Glass, Glazed Tile)
7. Quartz (Unglazed Porcelain)
8. Topaz (Granite)
9. Corundum (Ruby)
10. Diamond (Diamond)

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

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(hot water running)
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(weak detergent)
- 3: Removed by mechanical cleaning
(strong detergent)
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(24 hrs in suitable solvent)
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Water Absorption

ASTM C-373
UNI EN ISO
10545.3☒ Absorbs 0-.5%Impervious
Interior/Exterior
Frost Resistant☐ Absorbs .5-3%Vitreous
Interior/Exterior
Frost Resistant☐ Absorbs 3-7%Semi-Vitreous
Indoor Use Only☐ Absorbs 7% +Non-Vitreous
Indoor Use Only

Breaking Strength

ASTM C648
UNI EN ISO
10545.4

>50N

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

Facial Dimension

ASTM c499-09
UNI EN ISO
10545.02

flatness

Standard
±5mmTolerance
±.5%Result
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 ☐ PASSBases ☐ PASSChemicals ☐ PASS

Leed Information

REQUIREMENTS
FOR COMMERCIAL
INTERIORS/NEW
CONSTRUCTION

Sustainable Sites

Site selection

SS CREDIT 1

Heat Island Effect-non roof
Material with a solar reflectant index of at least 29.

1 Point

☒

Energy & Atmosphere

EA CREDIT 4

Green Power: Products that optimize energy
performance for floors and walls using thermal
conductivity. BTU-FT

1 Point

☒

Indoor Environmental Quality

Low-Emitting Materials-Flooring Systems

IEQ CREDIT 3.1-7

Green Cleaning: Reducing occupants exposure
to hazardous cleaning chemicals.

1 Point

☒

IEQ CREDIT 4.1

Low Emitting Adhesives: Products less than
65 G/L VOC☒

IEQ CREDIT 4.3

Low Emitting Materials: Flooring systems.

☒

Materials & Resources

M&R CREDIT 2

Construction Waste Management:
Recycling salvaged construction
waste in to new reusable materials.

1 Point

50% ☐

2 Points

70% ☒

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% ☐20% ☒

M&R CREDIT 5

Regional Materials: Materials
manufactured within 500 miles
of the project site.10% ☐20% ☒

Innovation in Design

ID CREDIT 1

Innovation in Design
Measurable exemplary environmental performance.

1-5 Points

☒Type:
Porcelain (polished)Product Line:
Royal*The marketing name for this product is property of CobsA-USA.
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