

# Portofino

porcelain wall & floor tile  
white body wall tile



**COBSA-USA**

NEW YORK | NEW JERSEY | MIAMI

PORCELAIN FLOOR TILE

*Calacatta*



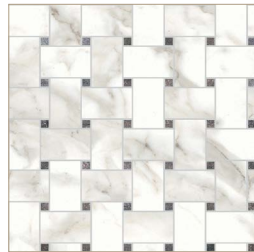


ELEMSCA1224 *M*    ELEMSCA1224L *P*



| 12 x 24 |

ELEMSCAWEAVE *P*



*basketweave*

ELEMSCAMOS22 *M*



*mosaic* | 2 x 2 |

ELEMSCAHEX2 *M*



*hexagon* | 2 x 2 |

ELEMSCABN336 *M*    ELEMSCABN336L *P*



*bullnose*

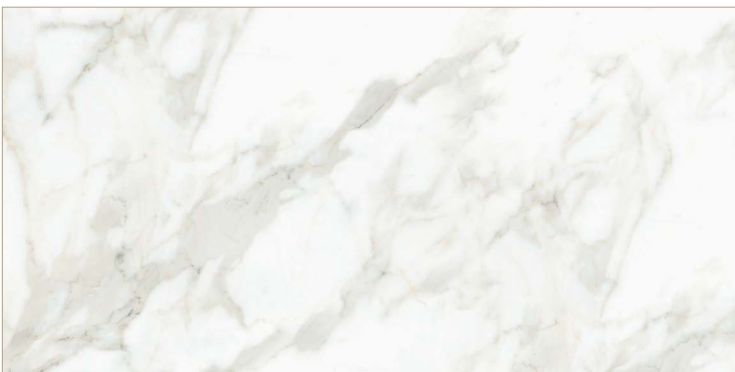
| 3 x 36 |

ELEMSCA24 *M*    ELEMSCA24L *P*



| 24 x 24 |

ELEMSCA1836 *M*    ELEMSCA1836L *P*



| 18 x 36 |

*P* • Polished Finish    *M* • Matte Finish



**18x18**

ELEPPCR18 *M*

**24x24**

ELEPPCR24 *M*  
ELEPPCR24L *P*

**36x36**

ELEPPCR36 *M SO*  
ELEPPCR36L *P SO*

**48x48**

ELEPPCR48 *M SO*  
ELEPPCR48L *P SO*



**12x24**

ELEPPCR1224 *M*  
ELEPPCR1224L *P*

**18x36**

ELEPPCR1836 *M*  
ELEPPCR1836L *P*

**24x48**

ELEPPCR2448 *M SO*  
ELEPPCR2448L *P SO*



**2x2 mosaic**

ELEPPCRMOS22 *M*



**3x12**

ELEPPCR312 *M*  
ELEPPCR312L *P*



**3x24 bullnose**

ELEPPCRBN324 *M*  
ELEPPCRBN324L *P*



**12x12 basketweave**

ELEPPCRWEAVEL *P*



**12x12 herringbone**

ELEPPCRMOSHER *M*

WHITE BODY WALL TILE

Crema Starfil



**18x18**  
ELEPWCR18 *M*



**10x30**  
ELEPWCR1030 *P*



**10x30 bevel**  
ELEPWCR1030BEV *P*



**1x1 mosaic**  
ELEPWCRMOS11 *P*



**10x30 shanghai warm**  
ELEPWCR1030SHA *P SO*



**10x30 trial warm**  
ELEPWCR1030TRI *P SO*



**2x10 torello**  
ELEPWCRTOR210 *P*



**2x10 bullnose**  
ELEPWCRBN210 *P*

*P* • Polished Finish    *M* • Matte Finish  
*SO* • Special Order (4-6 week delivery)



**18x18**  
ELEPPDO18 *M*

**24x24**  
ELEPPDO24 *M*  
ELEPPDO24L *P*

**36x36**  
ELEPPDO36 *M SO*  
ELEPPDO36L *P SO*

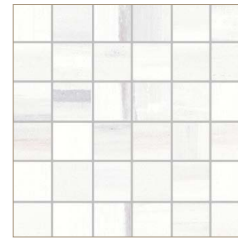
**48x48**  
ELEPPDO48 *M SO*  
ELEPPDO48L *P SO*



**12x24**  
ELEPPDO1224 *M*  
ELEPPDO1224L *P*

**18x36**  
ELEPPDO1836 *M*  
ELEPPDO1836L *P*

**24x48**  
ELEPPDO2448 *M SO*  
ELEPPDO2448L *P*



**2x2 mosaic**  
ELEPPDOMOS22 *M*



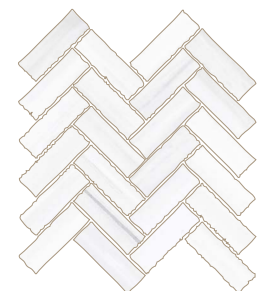
**3x12**  
ELEPPDO312 *M*  
ELEPPDO312L *P*



**3x24 bullnose**  
ELEPPDOBN324 *M*  
ELEPPDOBN324L *P*



**12x12 basketweave**  
ELEPPDOWEAVEL *P*



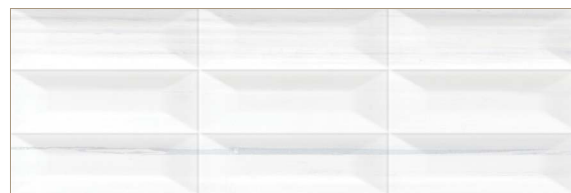
**12x12 herringbone**  
ELEPPDOMOSHER *M*



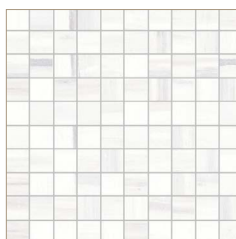
**18x18**  
ELEPWDO18 *M*



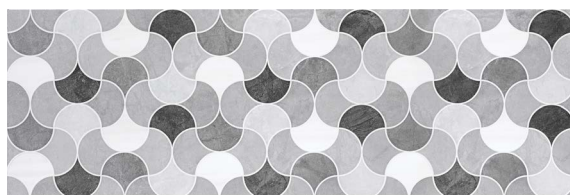
**10x30**  
ELEPWDO1030 *P*



**10x30 bevel**  
ELEPWDO1030BEV *P*



**1x1 mosaic**  
ELEPWDOMOS11 *P*



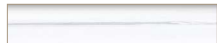
**10x30 shanghai cold**  
ELEPWDO1030SHA *P*



**10x30 trial cold**  
ELEPWDO1030TRI *P*



**2x10 torelo**  
ELEPWDOTOR210 *P*



**2x10 bullnose**  
ELEPWDOBN210 *P*

*P* • Polished Finish    *M* • Matte Finish  
*SO* • Special Order (4-6 week delivery)



**18x18**  
ELEPPGR18 *M*



**12x24**  
ELEPPGR1224 *M*  
ELEPPGR1224L *P*



**2x2 mosaic**  
ELEPPGRMOS22 *M*



**12x12 basketweave**  
ELEPPGRWEAVEL *P*

**24x24**  
ELEPPGR24 *M*  
ELEPPGR24L *P*

**18x36**  
ELEPPGR1836 *M*  
ELEPPGR1836L *P*



**3x12**  
ELEPPGR312 *M*  
ELEPPGR312L *P*

**36x36**  
ELEPPGR36 *M SO*  
ELEPPGR36L *P SO*

**24x48**  
ELEPPGR2448 *M SO*  
ELEPPGR2448L *P SO*



**3x24 bullnose**  
ELEPPGRBN324 *M*  
ELEPPGRBN324L *P*

**48x48**  
ELEPPGR48 *M SO*  
ELEPPGR48L *P SO*



**12x12 herringbone**  
ELEPPGRMOSHER *M*





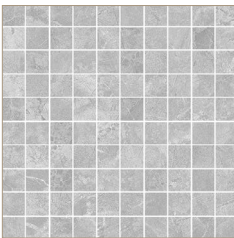
**18x18**  
ELEPWGR18 *M*



**10x30**  
ELEPWGR1030 *P*



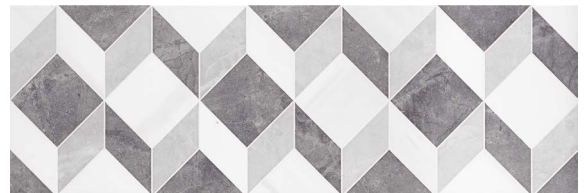
**10x30 bevel**  
ELEPWGR1030BEV *P*



**1x1 mosaic**  
ELEPWGRMOS11 *P*



**10x30 shanghai cold**  
ELEPWGR1030SHA *P*



**10x30 trial cold**  
ELEPWGR1030TRI *P*



**2x10 torello**  
ELEPWGRTOR210 *P*



**2x10 bullnose**  
ELEPWGRBN210 *P*

*P* • Polished Finish    *M* • Matte Finish  
*SO* • Special Order (4-6 week delivery)



**18x18**  
ELEPPVE18 *M*



**12x24**  
ELEPPVE1224 *M*  
ELEPPVE1224L *P*



**2x2 mosaic**  
ELEPPVEMOS22 *M*



**12x12 basketweave**  
ELEPPVEWEAVEL *P*

**24x24**  
ELEPPVE24 *M*  
ELEPPVE24L *P*

**18x36**  
ELEPPVE1836 *M*  
ELEPPVE1836L *P*



**3x12**  
ELEPPVE312 *M*  
ELEPPVE312L *P*

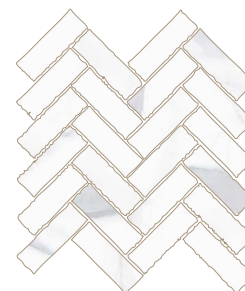
**36x36**  
ELEPPVE36 *M SO*  
ELEPPVE36L *P SO*

**24x48**  
ELEPPVE2448 *M*  
ELEPPVE2448L *P*



**3x24 bullnose**  
ELEPPVEBN324 *M*  
ELEPPVEBN324L *P*

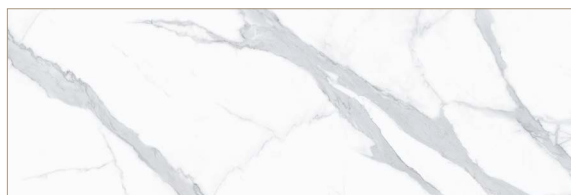
**48x48**  
ELEPPVE48 *M SO*  
ELEPPVE48L *P SO*



**12x12 herringbone**  
ELEPPVEMOSHER *M*



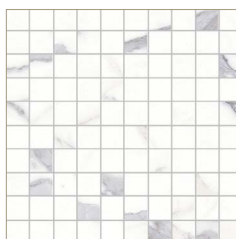
**18x18**  
ELEPWVE18 *M*



**10x30**  
ELEPWVE1030 *P*



**10x30 bevel**  
ELEPWVE1030BEV *P*



**1x1 mosaic**  
ELEPWVEMOS11 *P*



**10x30 shanghai cold**  
ELEPWVE1030SHA *P*



**10x30 trial cold**  
ELEPWVE1030TRI *P*



**2x10 torello**  
ELEPWVETOR210 *P*



**2x10 bullnose**  
ELEPWVEBN210 *P*

*P* • Polished Finish    *M* • Matte Finish  
*SO* • Special Order (4-6 week delivery)

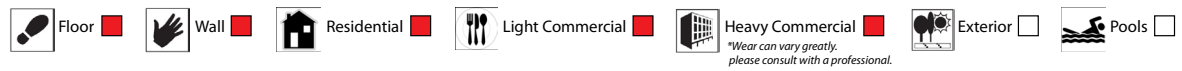


installation of  
**DOLOMITE**



installation of  
**VENATO**

## Suggested Applications



## Installation Suggestions



## Porcelain Type

through-body  color-bodied  glazed  unglazed  double-loaded

48x48: 30  
36x36: 40  
24x48: 30  
24x48: 20  
18x36: 80  
24x24: 55  
18x18: 110  
12x24: 110  
3x12: 200

## Shade Variation



THICKNESS: 10mm  
# OF FACES:

## 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                   |

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

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                  |   | Critical Angle |
|----------------------------|---|----------------|
| Class                      | Typical Applications  |                |
| <input 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, inclined pool surrounds, jacuzzis (plus all Class A&B areas) | ≥24°           |

## Scratch Resistance

MOH'S SCALE  
UNI EN ISO  
10545.6

7

| 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

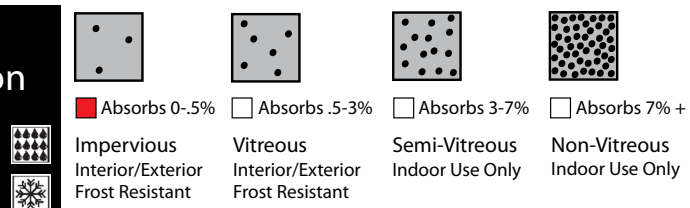
ASTM C1378-04  
UNI EN ISO  
10545.14

4, 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



## 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%      |        |
| thickness    | ±6mm             | ±.5%      |        |
| straightness | ±4.5mm           | ±.5%      |        |
| squareness   | ±5.4mm           | ±.6%      |        |
| sides L/W    | ±1.1mm<br>±4.5mm | ±.5%      |        |

## Chemical Resistance

ASTM C650  
UNI EN ISO  
10545.13

Allowances for:  
result  
Acid   
Bases   
Chemicals

## Leed Information



### REQUIREMENTS FOR COMMERCIAL INTERIORS/NEW CONSTRUCTION

| Sustainable Sites   | 1 Point                             |
|---|-------------------------------------|
| Site selection  |                                     |
| SS CREDIT 1<br>Heat Island Effect-non roof<br>Material with a solar reflectant index of at least 29.                          | <input checked="" type="checkbox"/> |
| Energy & Atmosphere   | 1 Point                             |
| EA CREDIT 4<br>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                             |
| IEQ CREDIT 3.1-7<br>Green Cleaning: Reducing occupants exposure to hazardous cleaning chemicals.                              | <input checked="" type="checkbox"/> |
| IEQ CREDIT 4.1<br>Low Emitting Adhesives: Products less than 65 G/L VOC   | <input type="checkbox"/>            |
| IEQ CREDIT 4.3<br>Low Emitting Materials: Flooring systems.   | <input checked="" type="checkbox"/> |

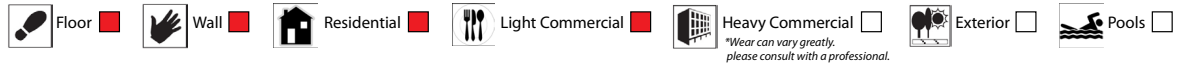
| Materials & Resources   | 1 Point                             | 2 Points                                |
|---|-------------------------------------|---|
| M&R CREDIT 2<br>Construction Waste Management: Recycling salvaged construction waste in to new reusable materials.                              | 50% <input type="checkbox"/>        | 70% <input type="checkbox"/>            |
| M&R CREDIT 4.1-4.2<br>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<br>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<br>Innovation in Design<br>Measurable exemplary environmental performance.  | <input checked="" type="checkbox"/> |   |

Type: **Porcelain Stoneware**

Product Line: **Portofino (matte)**

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

## Suggested Applications



*\*Wear can vary greatly. please consult with a professional.*

## Installation Suggestions



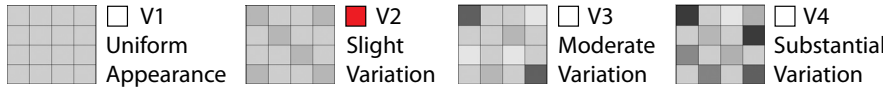
*\*Install the offset the width of the plank. For professional installation, the use of leveling spacers for all plank and rectangular (ie. 12x24) format tiles is recommended.*

## Porcelain Type

through-body  color-bodied  glazed  unglazed  double-loaded

48x48: 30  
36x36: 40  
24x48: 30  
24x48: 20  
18x36: 80  
24x24: 55  
18x18: 110  
12x24: 110  
3x12: 200

## Shade Variation



THICKNESS: 10mm

# OF FACES:

## Slip Resistance

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

| DIN 51097                  |   |                |
|----------------------------|---|----------------|
| Class                      | Typical Applications  | Critical Angle |
| <input 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

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°)

## Scratch Resistance

MOH'S SCALE  
UNI EN ISO  
10545.6

5

| 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

3, 4

- 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

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

## 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%      |        |
| thickness    | ±6mm             | ±.5%      |        |
| straightness | ±4.5mm           | ±.5%      |        |
| squareness   | ±5.4mm           | ±.6%      |        |
| sides L/W    | ±1.1mm<br>±4.5mm | ±.5%      |        |

## Chemical Resistance

ASTM C650  
UNI EN ISO  
10545.13

Allowances for:  
result  
Acid   
Bases   
Chemicals

## Leed Information



REQUIREMENTS FOR COMMERCIAL INTERIORS/NEW CONSTRUCTION

| Sustainable Sites   | 1 Point                             |
|---|-------------------------------------|
| Site selection  |                                     |
| SS CREDIT 1<br>Heat Island Effect-non roof<br>Material with a solar reflectant index of at least 29.                          | <input checked="" type="checkbox"/> |
| Energy & Atmosphere   | 1 Point                             |
| EA CREDIT 4<br>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<br>Green Cleaning: Reducing occupants exposure to hazardous cleaning chemicals.                              | <input checked="" type="checkbox"/> |
| IEQ CREDIT 4.1<br>Low Emitting Adhesives: Products less than 65 G/L VOC   | <input type="checkbox"/>            |
| IEQ CREDIT 4.3<br>Low Emitting Materials: Flooring systems.   | <input checked="" type="checkbox"/> |

| Materials & Resources   | 1 Point                             | 2 Points                                |
|---|-------------------------------------|---|
| M&R CREDIT 2<br>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<br>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<br>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<br>Innovation in Design<br>Measurable exemplary environmental performance.  | <input checked="" type="checkbox"/> |   |

Type: Porcelain Stoneware

Product Line: Portofino (polished)

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

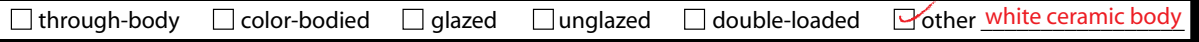
## Suggested Applications



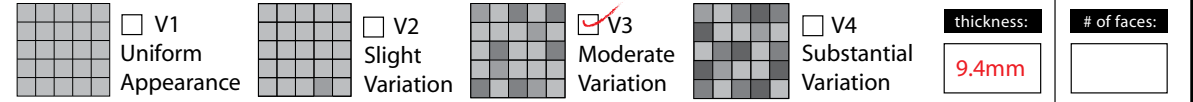
## Installation Suggestions



## Porcelain Type



## Shade Variation



## Slip Resistance



| COF               | WET       |        | DRY       |        | DCOF |
|-------------------|-----------|--------|-----------|--------|------|
|                   | standard* | result | standard* | result |      |
| accessible routes | .6        |        | .6        |        |      |
| ramps             | .8        |        | .8        |        |      |

\*Industry Standard/ADA Requirements

| Values      | Tile Classification          |
|-------------|------------------------------|
| 0 - 0.50    | Questionable                 |
| 0.50 - 0.60 | Conditionally Slip Resistant |
| > 0.60      | Slip Resistant               |

ASTM C-1028  
DIN 51097/51130

| DIN 51130                           | DIN 51097 Class            | Typical Applications  | Critical Angle |
|-------------------------------------|----------------------------|---|----------------|
| <input type="checkbox"/> R9* 3-10°  | <input type="checkbox"/> A | Barefoot, but mainly dry aisles and walkways, dry changing areas  | ≥12°           |
| <input type="checkbox"/> R10 10-19° | <input type="checkbox"/> B | Shower rooms, pool surrounds, wet changing areas, disinfectant spray areas (plus all Class A areas)                           | ≥18°           |
| <input type="checkbox"/> R11 19-27° | <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°           |
| <input type="checkbox"/> R12 27-35° |                            |   |                |
| <input type="checkbox"/> R13 >35°   |                            |   |                |

## Wear Resistance

PEI RATING  
UNI EN ISO  
10545.7

- Class 1: Walls only
- Class 2: Resid. floors w/minimal abrasive traffic.
- Class 3: Resid. interiors normal use and foot traffic.
- Class 4: Light-medium commercial applications.
- Class 5: Commercial applications.

Product Line:

**Portofino**

Type:

**Ceramic Wall Tile**



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