

Portofino



*Inspired By Nature,
Made Possible By...*

CANCOS
TILE & STONE



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*



18x18
ELEPWCR18



10x30
ELEPWCR1030



10x30 bevel
ELEPWCR1030BEV



1x1 mosaic
ELEPWCRMOS11



10x30 shanghai warm
ELEPWCR1030SHA *SO*



10x30 trial warm
ELEPWCR1030TRI *SO*



2x10 torello
ELEPWCRTOR210



2x10 bullnose
ELEPWCRBN210

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*



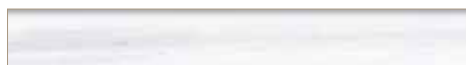
12x24
ELEPPDO1224 *M*
ELEPPDO1224L *P*

18x36
ELEPPDO1836 *M*
ELEPPDO1836L *P*

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



3x12
ELEPPDO312 *M*
ELEPPDO312L *P*



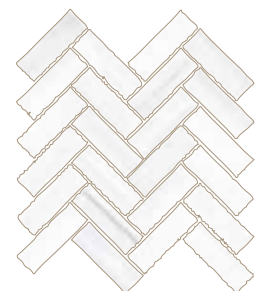
3x24 bullnose
ELEPPDOBN324 *M*
ELEPPDOBN324L *P*



2x2 mosaic
ELEPPDOMOS22 *M*



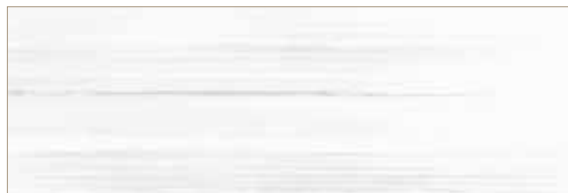
12x12 basketweave
ELEPPDOWEAVEL *P*



12x12 herringbone
ELEPPDOMOSHER *M*



18x18
ELEPWDO18



10x30
ELEPWDO1030



10x30 bevel
ELEPWDO1030BEV



1x1 mosaic
ELEPWDOMOS11



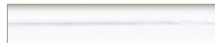
10x30 shanghai cold
ELEPWDO1030SHA



10x30 trial cold
ELEPWDO1030TRI



2x10 torello
ELEPWDOTOR210



2x10 bullnose
ELEPWDOBN210

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



18x18
ELEPPGR18 *M*



12x24
ELEPPGR1224 *M*
ELEPPGR1224L *P*



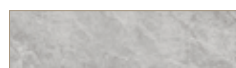
2x2 mosaic
ELEPPGRMOS22 *M*



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



10x30
ELEPWGR1030



10x30 bevel
ELEPWGR1030BEV



1x1 mosaic
ELEPWGRMOS11



10x30 shanghai cold
ELEPWGR1030SHA



10x30 trial cold
ELEPWGR1030TRI



2x10 torello
ELEPWGRTOR210



2x10 bullnose
ELEPWGRBN210

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*

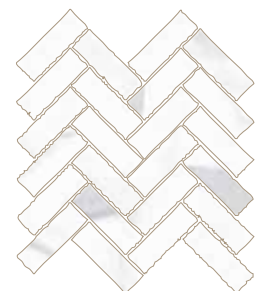
36x36
ELEPPVE36 *M SO*
ELEPPVE36L *P SO*

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



3x24 bullnose
ELEPPVEBN324 *M*
ELEPPVEBN324L *P*

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



12x12 herringbone
ELEPPVEMOSHER *M*



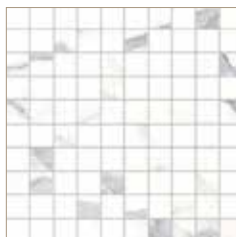
18x18
ELEPWVE18



10x30
ELEPWVE1030



10x30 bevel
ELEPWVE1030BEV



1x1 mosaic
ELEPWVEMOS11



10x30 shanghai cold
ELEPWVE1030SHA



10x30 trial cold
ELEPWVE1030TRI



2x10 torello
ELEPWVETOR210



2x10 bullnose
ELEPWVEBN210

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

Suggested Applications

Floor Wall Residential Light Commercial Heavy Commercial Exterior Pools

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

Installation Suggestions

Plank Installation* Modular Setting Joint Size

*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

Shade Variation

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

THICKNESS:

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 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°

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. Flourite (Some Marbles)	9. Corundum (Ruby)
5. Apatite (Knife Blade)	10. Diamond (Diamond)

Industry standard ≤175mm²

MOH'S SCALE
UNI EN ISO
10545.6 **7**

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 **4, 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

ASTM C648
UNI EN ISO
10545.4

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="text"/>
thickness	±6mm	±.5%	<input type="text"/>
straightness	±4.5mm	±.5%	<input type="text"/>
squareness	±5.4mm	±.6%	<input type="text"/>
sides L/W	±1.1mm ±4.5mm	±.5%	<input type="text"/>

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 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
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 type="checkbox"/>
IEQ CREDIT 4.3 Low Emitting Materials: Flooring systems.	<input checked="" type="checkbox"/>

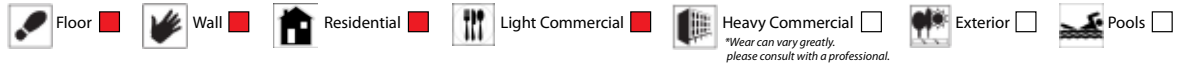
Materials & Resources	1 Point	2 Points
M&R CREDIT 2 Construction Waste Management: Recycling salvaged construction waste in to new reusable materials.	50% <input type="checkbox"/>	70% <input type="checkbox"/>
M&R CREDIT 4.1-4.2 Recycled Content: The sum of post consumer plus 1/2 of the pre consumer reps 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 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: **Portofino (matte)**

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

Suggested Applications

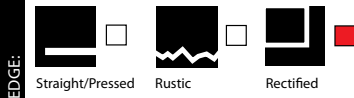


*Wear can vary greatly. please consult with a professional.

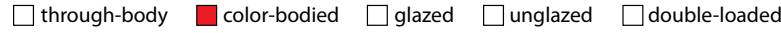
Installation Suggestions



*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.

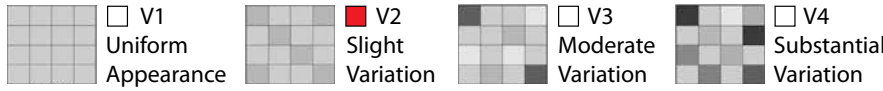


Porcelain Type



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

Shade Variation



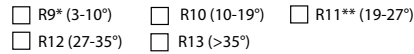
THICKNESS: 10mm

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



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

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. Flourite (Some Marbles)	9. Corundum (Ruby)
5. Apatite (Knife Blade)	10. Diamond (Diamond)

Industry standard ≤175mm²

MOH'S SCALE
UNI EN ISO
10545.6

5

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

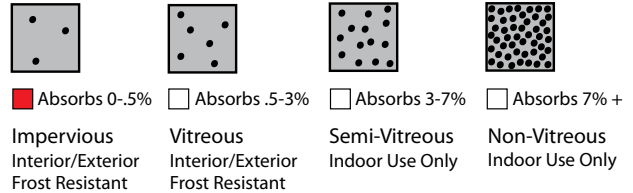
- 5: Removed after 5 minutes (hot water running)
- 4: Removed by manual cleaning (weak detergent)
- 3: Removed by mechanical cleaning (strong detergent)
- 2: Removed by immersion (24 hrs in suitable solvent)
- 1: Stain not removed

ASTM C1378-04
UNI EN ISO
10545.14

3, 4

Water Absorption

ASTM C-373
UNI EN ISO
10545.3



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%	<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
Bases
Chemicals

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 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 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 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 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: Portofino (polished)

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

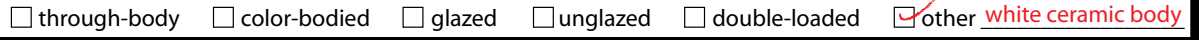
Suggested Applications



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 Cancos Tile Corp. This same product may be marketed under different names.