

Onyx

porcelain stoneware



**CANCOS**  
TILE & STONE



*Ivory*





ELEONIV1224  
ELEONIV1224L



M+P | 12x24 |

ELEONIV2448  
ELEONIV2448L



M+P | 24x48 |

ELEONIV312  
ELEONIV312L



M+P | 3x12 |

ELEONIVBN324  
ELEONIVBN324L



M+P | 3x24 bullnose |

ELEONIVHEXL



P | 4x4 hex |

ELEONIVMOS22



M | 2x2 mosaic |

ELEONIVWEAVEL



P | basketweave |



*Ocean*





# OCEAN

ELEONOC1224  
ELEONOC1224L



M+P | 12x24 |

ELEONOC2448  
ELEONOC2448L



M+P | 24x48 |

ELEONOC312  
ELEONOC312L



M+P | 3x12 |

ELEONOCBN324  
ELEONOCBN324L



M+P | 3x24 bullnose |

ELEONOCHEXL



P | 4x4 hex |

ELEONOCMOS22



M | 2x2 mosaic |

ELEONOCWEAVEL



P | basketweave |



*Silver*



# SILVER

ELEONSI1224  
ELEONSI1224L



M+P | 12x24 |

ELEONSI2448  
ELEONSI2448L



M+P | 24x48 |

ELEONSI312  
ELEONSI312L



M+P | 3x12 |

ELEONSIBN324  
ELEONSIBN324L



M+P | 3x24 bullnose |

ELEONSIHEXL



P | 4x4 hex |

ELEONSIMOS22



M | 2x2 mosaic |

ELEONSIWEAVEL



P | basketweave |





*White*





ELEONWH1224  
ELEONWH1224L



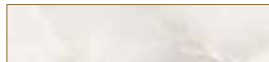
M+P | 12x24 |

ELEONWH2448  
ELEONWH2448L



M+P | 24x48 |

ELEONWH312  
ELEONWH312L



M+P | 3x12 |

ELEONWHBN324  
ELEONWHBN324L



M+P | 3x24 bullnose |

ELEONWHHEXL



P | 4x4 hex |

ELEONWHMOS22



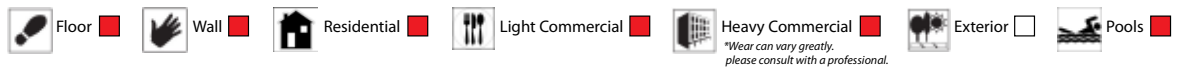
M | 2x2 mosaic |

ELEONWHWEAVEL



P | basketweave |

## Suggested Applications

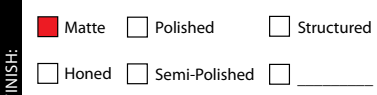


\*Wear can vary greatly. please consult with a professional.

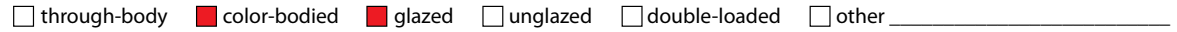
## Installation Suggestions



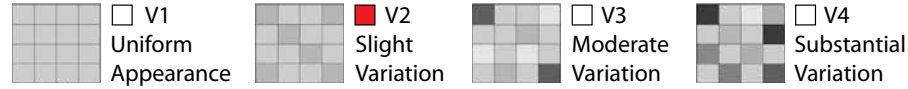
\*Install the offset the width of the plank. For professional installation, the use of leveling spacers for all plank and rectangular (ie. 12x24) format tiles is recommended.



## Porcelain Type



## Shade Variation



THICKNESS: 10mm  
# OF FACES: 40: 24x48, 110: 12x24, 200: 3x12

## Slip Resistance

DCOF	Values	Applications
0.63	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°)

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

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<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

3-5

- 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

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

## Breaking Strength

ASTM C648  
UNI EN ISO  
10545.4

>45 n/mm<sup>2</sup>

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%	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.	<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 Low-Emitting Materials-Flooring Systems	1 Point
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 checked="" type="checkbox"/>

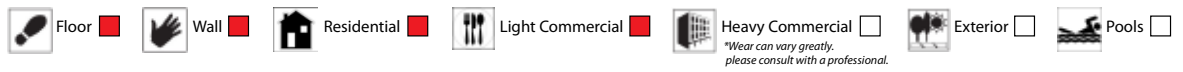
Materials & Resources	1 Point	2 Points
M&R CREDIT 2 Construction Waste Management: Recycling salvaged construction waste in to new reusable materials.	50% <input type="checkbox"/>	70% <input checked="" type="checkbox"/>
M&R CREDIT 4.1-4.2 Recycled Content: The sum of post consumer plus 1/2 of the pre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

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



## Suggested Applications



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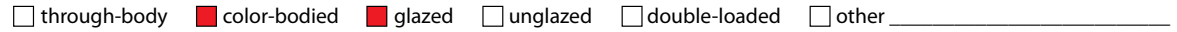
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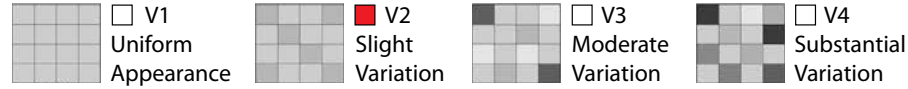
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DIN 51097		
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3,4

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UNI EN ISO  
10545.4

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Type: **Porcelain Stoneware (Polished Finish)**  
Product Line: **ONYX**  
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**CANCOS**  
TILE & STONE