

# Massa

porcelain stoneware



**COBSA-USA**

NEW YORK | NEW JERSEY | MIAMI



ELEMSBA1224 M ELEMSBA1224L P



| 12 x 24 |

ELEMSBA24 M ELEMSBA24L P



| 24 x 24 |

ELEMSBABN336 M ELEMSBABN336L P



bullnose

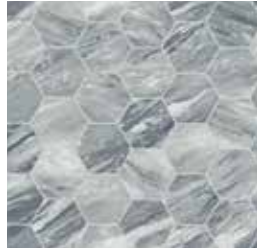
| 3 x 36 |

ELEMSBAMOS22 M



mosaic | 2 x 2 |

ELEMSBAHEX2 M SO



hexagon | 2 x 2 |

ELEMSBA1236 M ELEMSBA1236L P



| 12 x 36 |

SO

ELEMSBA2460 M



| 24 x 60 |

SO

ELEMSBA1836 M ELEMSBA1836L P



| 18 x 36 |

SO

ELEMSBA36 M ELEMSBA36L P



| 36 x 36 |

SO



ELEMSCA1224 M ELEMSCA1224L P



| 12 x 24 |

ELEMSCAWEAVE P



basketweave

ELEMSCA24 M ELEMSCA24L P



| 24 x 24 |

ELEMSCABN336 M ELEMSCABN336L P



bullnose

| 3 x 36 |

SO • SPECIAL ORDER [ 4-6 week delivery ]

# Calacatta Gold

ELEMSCAMOS22 *M*



mosaic | 2 x 2 |

ELEMSCAHEX2 *M*



hexagon | 2 x 2 |

ELEMSCA1236 *M* ELEMSCA1236L *P*



SO

| 12 x 36 |

ELEMSCA1836 *M* ELEMSCA1836L *P*



| 18 x 36 |

ELEMSCA2460 *M*

SO



| 24 x 60 |

ELEMSCA36 *M* ELEMSCA36L *P*



SO

| 36 x 36 |



ELEMSSA1224 M ELEMSSA1224L P



| 12 x 24 |

ELEMSSAWEAVE P



*basketweave*

ELEMSSA24 M ELEMSSA24L P



| 24 x 24 |

ELEMSSABN336 M ELEMSSABN336L P



*bullnose*

| 3 x 36 |

SO • SPECIAL ORDER [ 4-6 week delivery ]

# Saturnia

ELEMSSAMOS22 *M*



mosaic | 2 x 2 |

ELEMSSAHEX2 *M SO*



hexagon | 2 x 2 |

ELEMSSA1236 *M* ELEMSSA1236L *P*



| 12 x 36 |

ELEMSSA2460 *M*

*SO*



| 24 x 60 |

ELEMSSA1836 *M* ELEMSSA1836L *P*

*SO*



| 18 x 36 |

ELEMSSA36 *M* ELEMSSA36L *P*

*SO*



| 36 x 36 |



ELEMSST1224 M ELEMSST1224L P



| 12 x 24 |

ELEMSSTWEAVE P



basketweave

ELEMSST24 M ELEMSST24L P



| 24 x 24 |

ELEMSSTBN336 M ELEMSSTBN336L P



bullnose

| 3 x 36 |

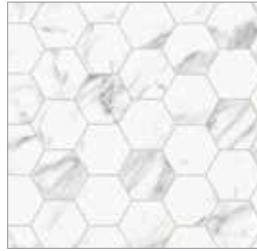


ELEMSSTMOS22 *M*



mosaic | 2 x 2 |

ELEMSSTHEX2 *M*



hexagon | 2 x 2 |

ELEMSST1236 *M*

ELEMSST1236L *P*

SO



| 12 x 36 |

ELEMSST1836 *M*

ELEMSST1836L *P*



| 18 x 36 |

ELEMSST2460 *M*

SO



| 24 x 60 |

ELEMSST36 *M*

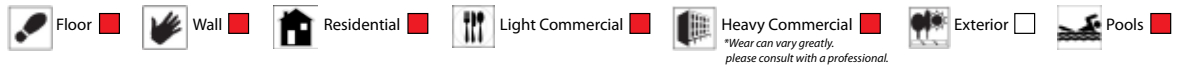
ELEMSST36L *P*

SO

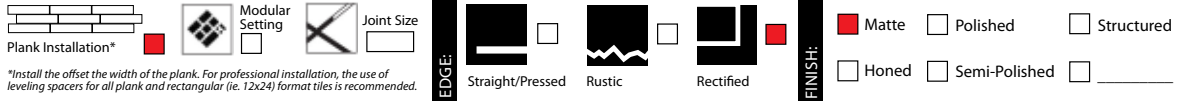


| 36 x 36 |

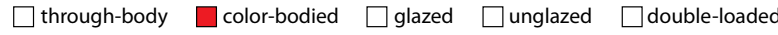
## Suggested Applications



## Installation Suggestions



## Porcelain Type



## Shade Variation



## Slip Resistance

DCOF	Values	Applications
<b>&gt;.42</b>	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

<input checked="" type="checkbox"/> R9* (3-10°)	<input type="checkbox"/> R10 (10-19°)	<input type="checkbox"/> R11** (19-27°)
<input type="checkbox"/> R12 (27-35°)	<input type="checkbox"/> 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	Showers 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

**7**

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

<input type="checkbox"/> Class 1: Walls only
<input type="checkbox"/> Class 2: Residential floors w/minimal abrasive traffic
<input type="checkbox"/> Class 3: Residential interiors/light commercial traffic
<input checked="" type="checkbox"/> Class 4: Medium commercial applications
<input checked="" type="checkbox"/> 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

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

## Breaking Strength

ASTM C648  
UNI EN ISO  
10545.4

**PASS**

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%	<b>PASS</b>
thickness	±6mm	±.5%	<b>PASS</b>
straightness	±4.5mm	±.5%	<b>PASS</b>
squareness	±5.4mm	±.6%	<b>PASS</b>
sides L/W	±1.1mm ±4.5mm	±.5%	<b>PASS</b>

## Chemical Resistance

ASTM C650  
UNI EN ISO  
10545.13

Allowances for:

result	
Acid	<b>PASS</b>
Bases	<b>PASS</b>
Chemicals	<b>PASS</b>

## 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: **Massa (matte)**

\*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

through-body  color-bodied  glazed  unglazed  double-loaded

## Shade Variation



THICKNESS: 10mm  
# OF FACES: 24x60: 25, 36x36: 40, 18x36: 80, 12x36: 120, 24x24: 55, 12x24: 110

## Slip Resistance

DCOF	Values	Applications
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<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 Frost Resistant	<input type="checkbox"/>	Interior/Exterior Frost Resistant	<input type="checkbox"/>	Indoor Use Only	<input type="checkbox"/>	Indoor Use Only

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Type: **Porcelain Stoneware**  
Product Line: **Massa (polished)**

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