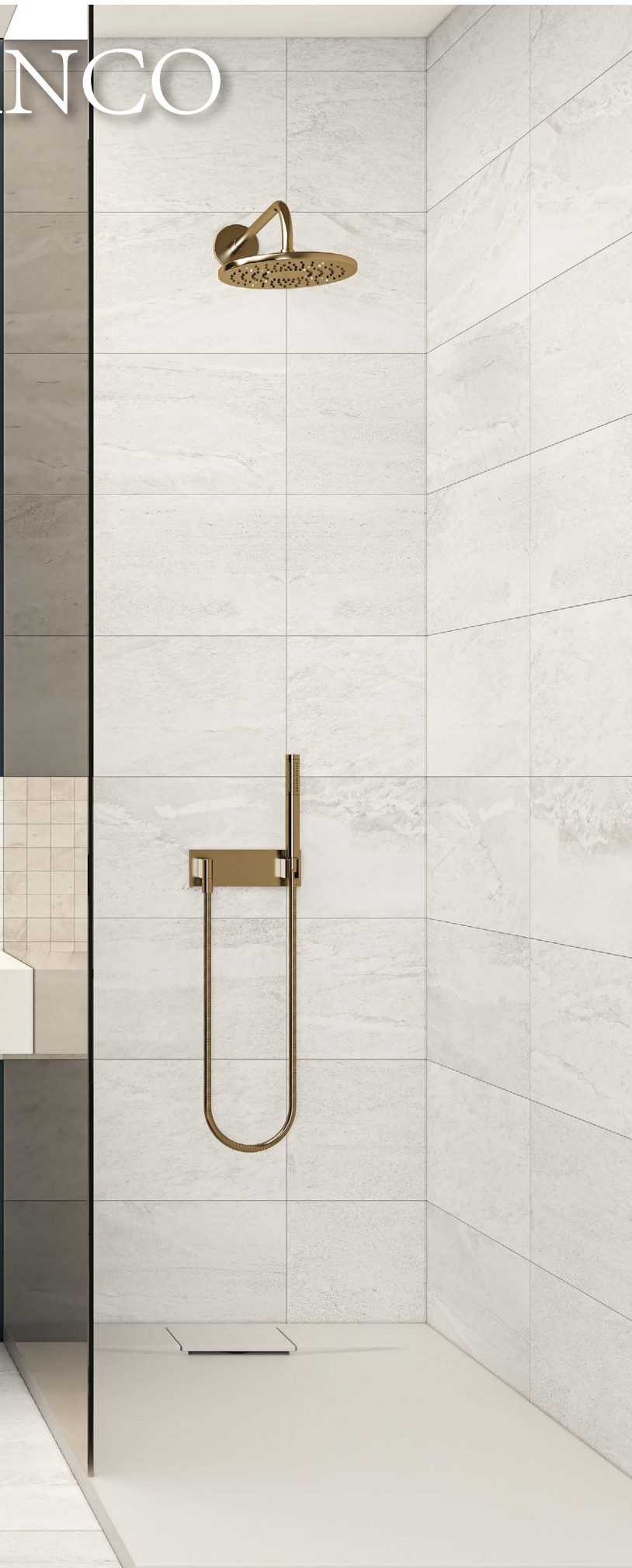


Savoie Marcel — *matte and polished porcelain*



Marcel BLANCO



Savoie BLANCO



Marcel ELESMBL2448
Savoie ELESMBL2448L



| 24 x 48 |

Marcel ELESMBL1224
Savoie ELESMBL1224L



| 12 x 24 |

Marcel ELESMBLBN324
Savoie ELESMBLBN324L



| 3 x 24 bullnose |

Marcel
ELESMBLMOS22



| 2 x 2 mosaic |

Marcel = matte finish
Savoie = polished finish

Marcel GRIS



Savoie GRIS



Marcel ELES MGR2448
Savoie ELES MGR2448L



| 24 x 48 |

Marcel ELES MGR1224
Savoie ELES MGR1224L



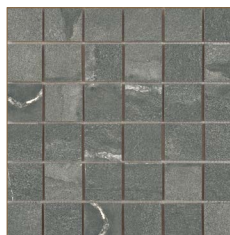
| 12 x 24 |

Marcel ELES MGRBN324
Savoie ELES MGRBN324L



| 3 x 24 bullnose |

Marcel ELES MGRMOS22



| 2 x 2 mosaic |

Marcel = matte finish
Savoie = polished finish

Marcel MARFIL



Savoie MARFIL



Marcel ELESMMMA2448
Savoie ELESMMMA2448L



| 24 x 48 |

Marcel ELESMMMA1224
Savoie ELESMMMA1224L



| 12 x 24 |

Marcel ELESMMABN324
Savoie ELESMMABN324L



| 3 x 24 bullnose |

Marcel
ELESMMAMOS22



| 2 x 2 mosaic |

Marcel = matte finish
Savoie = polished finish

Marcel PERLA



Savoie PERLA



Marcel ELESMPPE2448
Savoie ELESMPPE2448L



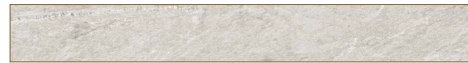
| 24 x 48 |

Marcel ELESMPPE1224
Savoie ELESMPPE1224L



| 12 x 24 |

Marcel ELESMPPEBN324
Savoie ELESMPPEBN324L



| 3 x 24 bullnose |

Marcel
ELESMPPEMOS22



| 2 x 2 mosaic |

Marcel = matte finish
Savoie = polished finish

Suggested Applications

Floor Wall Residential Light Commercial Heavy Commercial Exterior Pools

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

Installation Suggestions

Plank Installation*

*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: 10mm **# OF FACES:**

Slip Resistance

DCOF	Values	Applications
<input checked="" type="checkbox"/> .50	0.42	Recommended Standard DCOF value for wet/dry commercial flooring
<input type="checkbox"/>	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 checked="" 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)

MOH'S SCALE
UNI EN ISO 10545.6 7

Industry standard ≤175mm²

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)
- Removed by manual cleaning (weak detergent)
- Removed by mechanical cleaning (strong detergent)
- Removed by immersion (24 hrs in suitable solvent)
- 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% +
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%	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-FIT	<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 checked="" 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 type="checkbox"/>	

Type: **Matte Porcelain**
 Product Line: **MARCEL**

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

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 **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: **10mm** # OF FACES:

Slip Resistance

DCOF **.30**

Values	Applications
0.42	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
<input type="checkbox"/> A	Barefoot, but mainly dry aisles and walkways, dry changing areas	≥12°
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<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

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 **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

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

ASTM C648
 UNI EN ISO 10545.4

Facial Dimension

ASTM c499-09
 UNI EN ISO 10545.02

	Standard	Tolerance	Result
flatness	±5mm	±.5%	PASS
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straightness	±4.5mm	±.5%	PASS
squareness	±5.4mm	±.6%	PASS
sides L/W	±1.1mm / ±4.5mm	±.5%	PASS

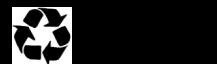
Chemical Resistance

ASTM C650
 UNI EN ISO 10545.13

Allowances for:

Acid **PASS**
 Bases **PASS**
 Chemicals **PASS**

Leed Information



REQUIREMENTS FOR COMMERCIAL INTERIORS/NEW CONSTRUCTION

Sustainable Sites	1 Point	Materials & Resources	1 Point	2 Points
Site selection		M&R CREDIT 2		
SS CREDIT 1		Construction Waste Management: Recycling salvaged construction waste in to new reusable materials.	50% <input type="checkbox"/>	70% <input checked="" type="checkbox"/>
Heat Island Effect-non roof	<input checked="" type="checkbox"/>	M&R CREDIT 4.1-4.2		
Material with a solar reflectant index of at least 29.		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"/>
Energy & Atmosphere	1 Point	M&R CREDIT 5		
EA CREDIT 4		Regional Materials: Materials manufactured within 500 miles of the project site.	10% <input type="checkbox"/>	20% <input type="checkbox"/>
Green Power: Products that optimize energy performance for floors and walls using thermal conductivity. BTU-FT	<input checked="" type="checkbox"/>	Innovation in Design		1-5 Points
Indoor Environmental Quality	1 Point	ID CREDIT 1		
Low-Emitting Materials-Flooring Systems		Innovation in Design		
IEQ CREDIT 3.1-7		Measurable exemplary environmental performance.		<input type="checkbox"/>
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 checked="" type="checkbox"/>			
IEQ CREDIT 4.3				
Low Emitting Materials: Flooring systems.	<input checked="" type="checkbox"/>			

Type: **Polished Porcelain**
 Product Line: **SAVOIE**

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

