

porcelain

catalog

MARBLE SYSTEMS



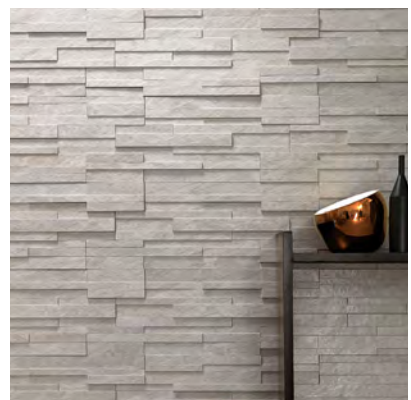
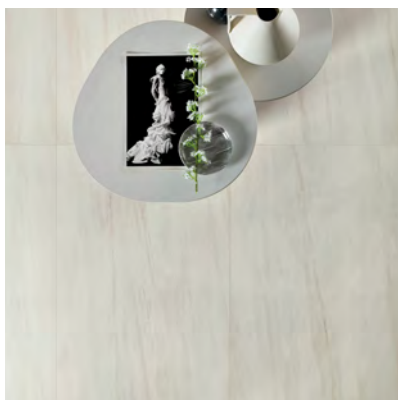


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black honed





WIS12106 black honed 12"x24"



WIS12107 gray light honed 12"x24"



WIS12109 sand honed 12"x24"



WIS12110 toupe honed 12"x24"



WIS12111 white honed 12"x24"





sand - toupe - white honed

physical properties	ASTM Test	industry standards	results
water absorption	C373	impervious <0.5%	$\leq 0.1\%$
thickness dimension	C499	range ± 0.04 in Max	$\leq \pm 0.04$ in
facial dimension	C499	$\pm 0.25\%$	$\leq \pm 0.25\%$
warpage average	C485	$\pm 0.40\%$ on any edge	$\leq \pm 0.40\%$
warpage average	C485	$\pm 0.40\%$ on diagonal	$\leq \pm 0.40\%$
warpage average	C502	$\pm 0.25\%$	$\leq \pm 0.25\%$
bond strength	C482	≥ 50 psi	≥ 200 psi
breaking strength	C648	≥ 250 lbf	≥ 400 lbf
hardness (mohs)	scratch test (no regulated)	range 0 - 10	≥ 7
visible abrasion resistance for glaze tile	C1027	no requirement range 0 - 5	class 4
frost resistance (freeze/thaw)	C1026	no sample must show alterations to surface	no evidence of damage
chemical resistance	C650	no requirement range E - A	class A
stain resistance	C1378	no requirement range E - A	class A*
coefficient of friction (dynamic)	DCOF acutest sm (wet)	≥ 0.42	$\geq 0.42^*$
aesthetic classification	visual evaluation shade & texture	no requirement range V0 - V4	V2

*All values given are for matte or honed material. No values are given for polished material. Iris U.S. does not recommend polished surfaces in area subject to exposure from grease, oil or water.

For level interior spaces to be walked upon when wet (see ANSI A137.1 section 6.2.2.1.10 – Section 9.6 for test procedure).



sahara sand honed



miami white honed



new york light gray honed



WIS13102 miami white honed 12"x24"



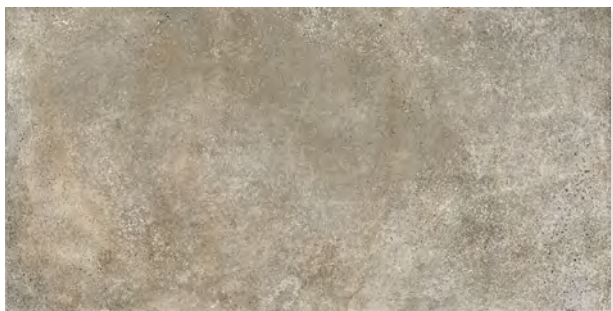
WIS13097 new york light gray honed 12"x24"



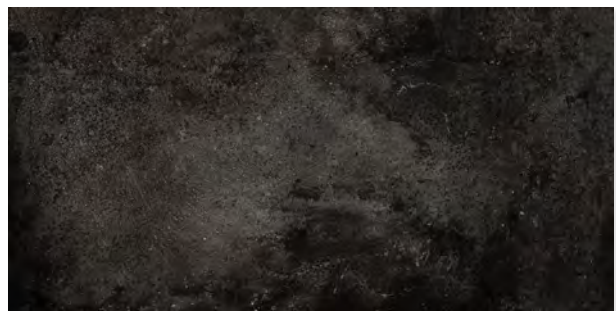
WIS13100 sahara sand honed 12"x24"



WIS13099 stockholm greige honed 12"x24"



WIS13101 berlin toupe honed 12"x24"



WIS13098 london black honed 12"x24"



physical - visual properties	astm test	industry standard	iris us results
water absorption	C373	impervious < 0.5%	≤ 0.1%
thickness dimension	C499	range ± 0.04 inc. max.	≤± 0.04 inc.
facial dimension	C499	± 0.25%	≤± 0.25%
warpage average diagonal	C485	± 0.40%	≤± 0.40%
warpage average edge	C485	± 0.40%	≤± 0.40%
wedging	C502	± 0.25%	≤± 0.25%
bond strength	C482	≥ 50 psi	≥ 200 psi
breaking strength	C648	≥ 250 lbf	≥ 400 lbf
hardness (mohs)	scratch test (no regulated)	range 0 - 10	≥ 7
visible abrasion resistance for glaze tiles	C1027	no requirement, range 0 - 5	class 4
frost resistance	C1026	no sample must show alterations to surface	no evidence of damage
chemical resistance	C650	no requirement, range e - a	class a
stain resistance	C1378	no requirement, range e - a	class a*
dcof - honed	BOT 3000	≥ 0.42*	≥ 0.50
dcof - textured	BOT 3000	≥ 0.42*	≥ 0.65
aesthetic classification	visual evaluation shade & texture	no requirement, range v0 - v4	v2

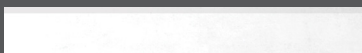
*All values given for Matte or Honed material, etc.



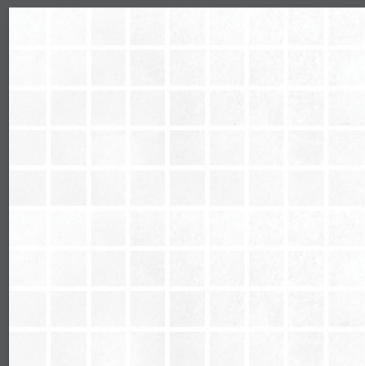
floor/wall tiles - in stock



WSX10033 beach matte rectified 12"x24"
WSX10041 beach matte rectified 24"x24"



WSX10079 beach matte bullnose
3 1/4"x24"

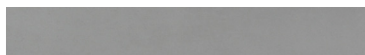


WSX10088 beach matte 1"x1" mosaic



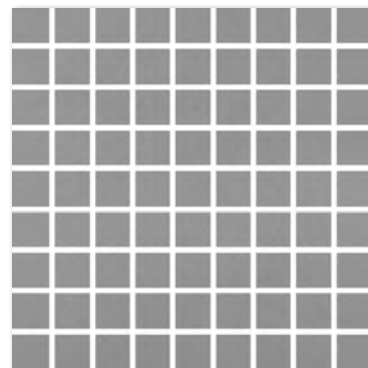
WSX10047 mouse matte 24"x24"

WSX10039 mouse matte 12"x24"



WSX10085 mouse matte bullnose

3 1/4"x24"



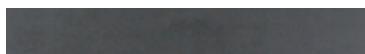
WSX10106 mouse matte

1"x1" mosaic



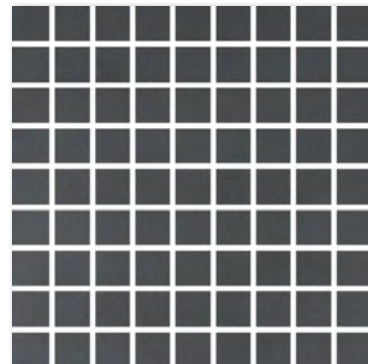
WSX10045 elephant matte rectified 24"x24"

WSX10037 elephant matte rectified 12"x24"



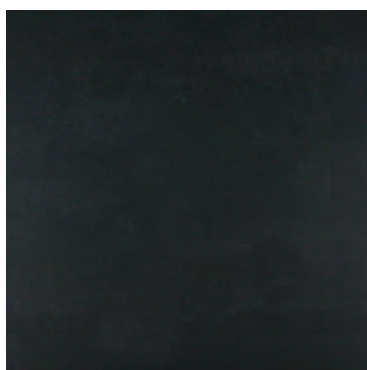
WSX10083 elephant matte bullnose

3 1/4"x24"



WSX10100 elephant matte

1"x1" mosaic



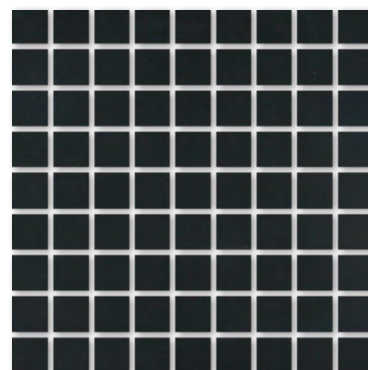
WSX10046 graphite matte 24"x24"

WSX10038 graphite matte 12"x24"



WSX10084 graphite matte bullnose

3 1/4"x24"



WSX10103 graphite matte

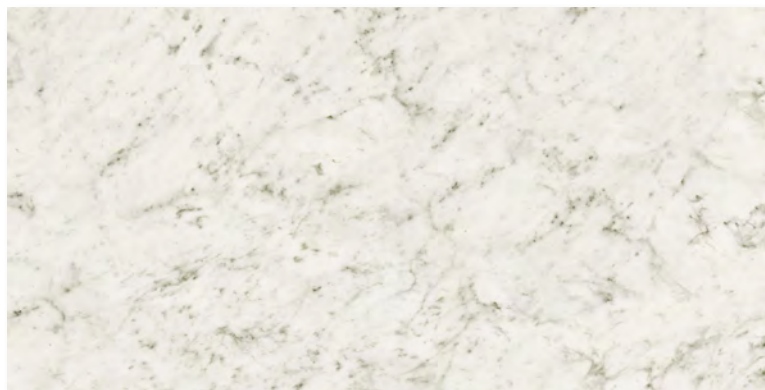
1"x1" mosaic

technical characteristics	norm	required	average value
water absorption	ISO 10545-3	max. 0.5%	<0.5%
frost resistance	ISO 10545-12	required	resistant
breaking strength	ISO 10545-4	>1100 N	>1300 N
modulus of rupture	ISO 10545-2	min. 35 N/mm ²	>40 N/mm ²
abrasion resistance	ISO 10545-7	max. 175mm ³	<120mm ³
linear thermal expansion	ISO 10545-8	available	7-8x10-6/C-1
thermal shock resistance	ISO 10545-9	available	resistant
resistance to household chemicals	ISO 10545-13	min. UB	UHA (max)
slip safety	DIN 51130 DIN 51097	—	R10 A+B

Bullnose pieces are recommended to be used in dry areas.

More sizes or finishes may be available through special order. Please contact your sales representative for more details.





WNB00337 bianco carrara polished rectified 12"x24"

WNB00351 bianco carrara natural rectified 12"x24"

WNB00338 bianco carrara polished rectified 3"x12"

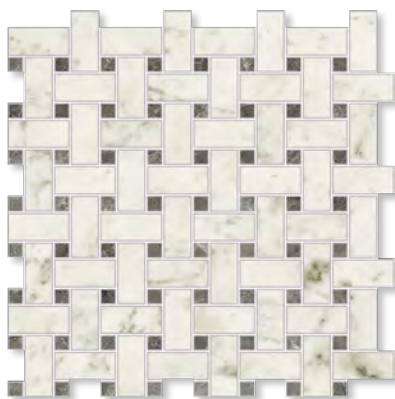


WNB00342 bianco carrara 2x2 polished
12"x12"x3/8"

WNB00356 bianco carrara 2x2 natural
12"x12"x3/8"



WNB00341 bianco carrara chevron polished
10"x11"x3/8"



WNB00344 bianco carrara trama polished
12"x12"x3/8"



WNB00345 bianco carrara zig-zag polished
12"x13"x3/8"



WNB00348 bianco carrara battiscopa polished
3"x24" molding

WNB00362 bianco carrara battiscopa natural
3"x24" molding



characteristics & test methods	requirements ANSI A 137.1	our general values			
determination of water absorption - (ASTM C 373)	average value $E_b \leq 0,5 \%$	average value $\leq 0,5\%$			
classification	definition § 3.0	porcelain tiles			
physical properties					
breaking strength - (ASTM C 648)	average ≥ 250 lbf (1.11 kN)	complies			
visible abrasion - (ASTM C 1027)	as reported	—			
thermal shock resistance (ASTM C 428)	pass	complies			
crazing resistance (ASTM C 424)	pass	complies			
resistance to freeze/thaw cycling (ASTM C 1026)	as reported	resistant			
DCOF resistance (ANSI A 137.1 Section 9.6)	≥ 0.42 ⁽¹⁾	DCOF ≥ 0.42			
bond strength (ASTM C 482)	≥ 50 psi (0.34 MPa)	>1 MPa			
color uniformity (ASTM C 609 and ANSI A 137.1 Section 9.3) ⁽²⁾	V0 - 3 Judds				
chemical properties					
chemical resistance (ASTM C 650)	as reported				
results					
pencil test	applicable	X		not applicable	
chemical test solution (item 1.2 of the standard)		visual test	pencil test	n. of specimens affected	
common household and cleaning	acetic acid 3% (v/v)	not affected	not affected	0	
	acetic acid 10% (v/v)	not affected	not affected	0	
	ammonium chloride 100 g/l	not affected	not affected	0	
	citric acid 30 g/l	not affected	not affected	0	
	citric acid 100 g/l	not affected	not affected	0	
	lactic acid 5% (v/v)	not affected	not affected	0	
	phosphoric acid 3% (v/v)	not affected	not affected	0	
	phosphoric acid 10% (v/v)	not affected	not affected	0	
	sulfamic acid 30 g/l	not affected	not affected	0	
	sulfamic acid 100 g/l	not affected	not affected	0	
swimming pool	sodium hydrochlorite 20 mg/l	not affected	not affected	0	
acids:	hydrochloric acid 3% (v/v)	affected	affected	1	
	hydrochloric acid 18% (v/v)	not affected	not affected	0	
bases:	potassium hydroxide 30 g/l	affected	affected	1	
	potassium hydroxide 100 g/l	affected	affected	1	
stain resistance (ASTM C 1378)		as reported			
dimensions - calibrated tiles					
dimensions - (ASTM C 499) - (ASTM C 485) - (ASTM C 502)		see ANSI A 137.1 - tab. 10	complies		
dimensions - rectified tiles					
dimensions - (ASTM C 499) - (ASTM C 485) - (ASTM C 502)		see ANSI A 137.1 - tab. 10	complies		

(1) for level interior spaces expected to be walked upon when wet

(2) for V0 tiles only



tabac natural rectified



atalier natural rectified



bamboue natural rectified



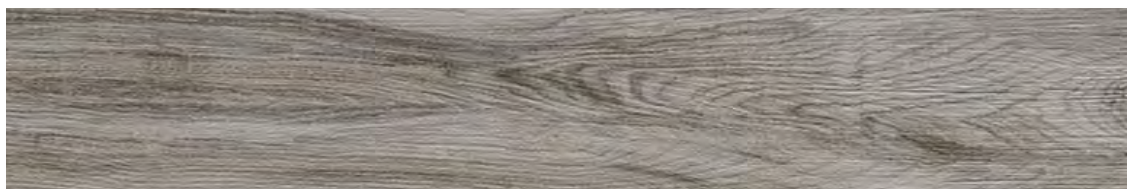
WNB00244 bamboue natural 8"x48" rectified



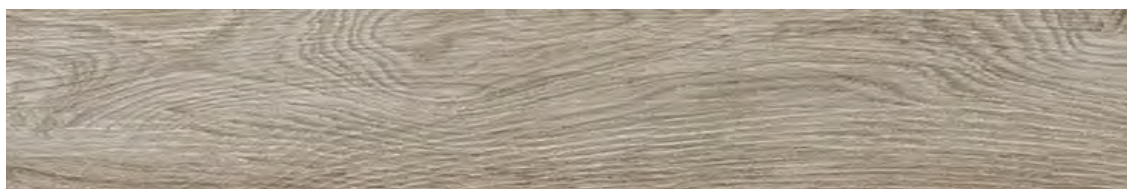
WNB00223 atalier natural 8"x48" rectified



WNB00251 riz natural 8"x48" rectified



WNB00237 nuage natural 8"x48" rectified



WNB00216 cannelle natural 8"x48" rectified



WNB00230 tabac natural 8"x48" rectified

More sizes or finishes may be available through special order. Please contact your sales representative for more details.



riz natural 8"x48" rectified

technical characteristics	iso test method		naturale	antislip	20mm
Fire Resistance			Classe A1	Classe A1	Classe A1
Lead & Cadmium Given Off by Glazed Tiles	ISO 10545/15:2000		does not yield Pb & Cd	does not yield Pb & Cd	does not yield Pb & Cd
Radioactivity Level	UNI 10797:1999		non-radioactive	non-radioactive	non-radioactive
Determination of the Electrical Resistance	EN 1081		$> 2 \cdot 10^9$	$> 2 \cdot 10^9$	$> 2 \cdot 10^9$
Determination of Insulation Resistance of Floors & Walls	CEI 64-8/6 1998:01		compliant	compliant	compliant
Dimensional Characteristics	ISO 10545-2:2000		compliant	compliant	compliant
Water Absorption	ISO 10545-3:2000		$< 0,5\%$	$\leq 0,5\%$	$\leq 0,5\%$
Flexural Strength	ISO 10545-4:2012		$\geq 35\text{N/mm}^2$	$\geq 35\text{N/mm}^2$	$\geq 35\text{N/mm}^2$
Impact Resistance by Measurement of Coefficient of Restitution	ISO 10545-5:2000		$e > 0,80$	$e > 0,80$	$e > 0,80$
Linear Thermal Expansion	ISO 10545-8:2000		$\leq 7,1 \times 10^{-6} \text{ } ^\circ\text{C}^{-1}$	$\leq 7,1 \times 10^{-6} \text{ } ^\circ\text{C}^{-1}$	$\leq 7,1 \times 10^{-6} \text{ } ^\circ\text{C}^{-1}$
Thermal Shock Resistance	ISO 10545-9:2000		Resistant	Resistant	Resistant
Moisture Expansion	ISO 10545-10:2000		$< 0,06\%$	$\leq 0,06\%$	$\leq 0,06\%$
Crazing Resistance (Glazed Tiles)	ISO 10545-11:2000		Resistant	Resistant	Resistant
Frost Resistance	ISO 10545-12:2000		Resistant	Resistant	Resistant
Chemical Resistance (Acids & Alkalis at Low & High Concentrations)	ISO 10545-13:2000		GLA-GHA	GLA-GHA	GLA-GHA
Resistance to Household Chemicals & Swimming Pool Salt	ISO 10545-13:2000		GA	GA	GA
Stains Resistance	ISO 10545-14:2000	Class	≥ 4	≥ 4	≥ 4
Determination of Unpolished & Polished Slip/Skid Resistance Value	DIN 51130		R10	R11	R11
Determination of The Anti-Slip Properties - Wet Load-ed Barefoot Areas	DIN 51097	Class	A+B	A+B+C	A+B+C
Determination of Static Coefficient of Friction	ASTM C1028	Dry Wet	≥ 0.65 ≥ 0.60	≥ 0.75 ≥ 0.70	≥ 0.70 ≥ 0.70
Determination of Dynamic Friction Coefficient	B.C.R.A	leather/dry hard shoe heeling rubber/wet	≥ 0.74 ≥ 0.65	≥ 1 ≥ 0.80	≥ 0.90 ≥ 0.80
Determination of Slip/Skid Resistance Value	UNE ENV 12633	Class	1	2	2
Determination of Dynamic & Static	ANSI A 137,1	DCOF Wet	≥ 0.60	≥ 0.69	≥ 0.69

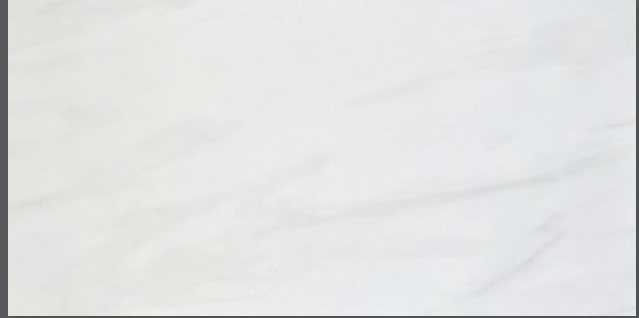


carrara arabescato rectified & polished

floor/wall tiles - in stock



WIS11960 carrara arabescato rectified & polished
12"x24"



WIS11963 carrara venato rectified & polished
12"x24"



WIS11961 carrara blu rectified & polished
12"x24"



WIS11962 carrara paonazzo rectified & polished
12"x24"

More sizes or finishes may be available through special order. Please contact your sales representative for more details.



carrara blu rectified & polished



carrara paonazzo rectified & polished

technical characteristics	ASTM	required	results
water absorption	C373	max. 0.5%	≤0.1%
thickness dimension	C499	range 0.04 max	≤0.04
facial dimension	C499	± 0.25%	≤0.25%
warpage average	C485	± 0.40% on any edge	≤ ± .40%
warpage average	C485	± 0.40% on diagonal	≤ ± .40%
wedging average	C502	± 0.25%	≤ ± 0.25%
bond strength	C482	50 psi or greater	> 200 psi
deep abrasion	C1243	≤175mm ³	<150mm ³
hardness (mohs)		no requirement	≥ 7
frost resistance (freeze/thaw)	C1026	no sample must show alterations to surface	no cracking or spalling occurred
chemical resistance	C650	no requirement	Class A
break strength	C648	250 IBF or Greater	≥ 350 IBF
coefficient of friction (static)	C1028	no requirement	≥ 0.79 dry ≥ 0.60 wet
coefficient of friction (dynamic)	DCOF acutest sm (wet)	≥ 0.42	≥ 0.42

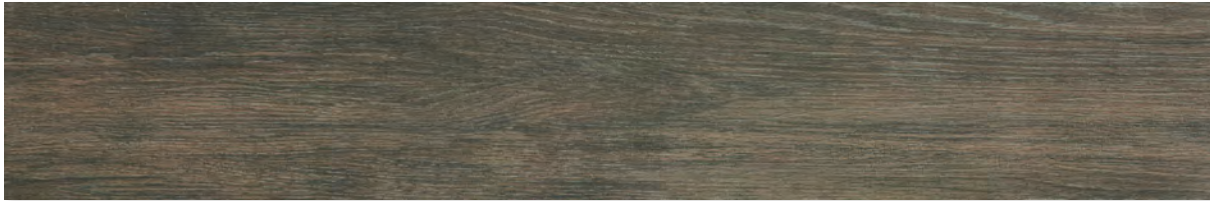


elm us matte





WIS11829 larch us matte 8"x48"



WIS11827 beech us matte 8"x48"



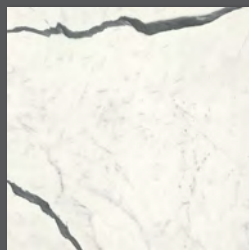
WIS11828 elm us matte 8"x48"

physical properties	test	industry standards		results colored body	
water absorbtion	ASTM C373	0.5% maximum		≤ 0.1%	
size					
calibrated (non rectified)	ASTM C499	• range of thickness (inch)	0.040	≤ 0.040	
	ASTM C499	• average facial dimension	± 0.50%	≤ ± 0.50%	
	ASTM C485	• warpage	± 75% on any edge	≤ ± 0.75%	
	ASTM C485	• warpage	± 50% on diagonal	≤ ± 0.50%	
	ASTM C502	• wedging	± 0.50%	≤ ± 0.50%	
rectified	ASTM C499	• range of thickness (inch)	0.040	≤ 0.040	
	ASTM C499	• average facial dimension	± 0.25%	≤ 0.25%	
	ASTM C499	• warpage	± 0.40% on any edge	≤ 0.40%	
	ASTM C485	• warpage	± 0.40% on diagonal	≤ 0.40%	
	ASTM C485	• wedging	± 0.25%	≤ 0.25%	
bond strength	ASTM C502	50 Psi or greater		> 200 psi	
deep abrasion	ASTM C482	< 175 Mm ³		< 150 mm ³	
hardness (mohs scale)	ASTM C1243	no requirement		≥ 7	
frost resistance (freeze/thaw)	ASTM C1026	no sample must show alterations to surface		no cracking or spalling occurred	
chemical resistance	ASTM C650	no requirement		class a	
breaking strength	ASTM C648	250 lbf or greater		≥ 350 lbf	
coefficient of friction (static)	ASTM C1028	no requirement		per collection	

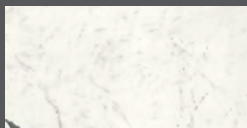
acutest
DCOF
Wet ≥ 0.42

C1028
COF
dry ≥ 0.80
wet ≥ 0.60

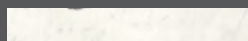




WLE00008 bianco statuario
lux rectified 24"x24"



WLE00016 bianco statuario
lux rectified 12"x24"



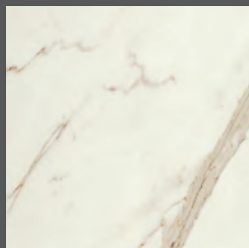
WLE00035 bianco statuario
lux rectified bullnose 4"x24"



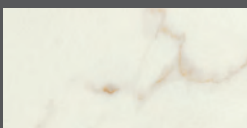
WLE00041 bianco statuario
lux 1"x1" mosaic
12"x12"

WLE00136 bianco statuario
velvet rectified 12"x24"

WLE00031 bianco statuario
velvet bullnose 4"x24"



WLE00129 calacatta shine
lux rectified 24"x24"



WLE00128 calacatta shine
lux rectified 12"x24"



WLE00131 calacatta shine
lux rectified bullnose 4"x24"

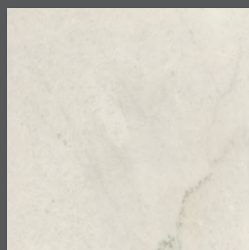


WLE00127 calacatta shine
lux 1"x1" mosaic
12"x12"

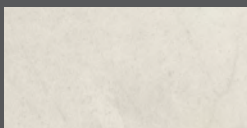
WLE00130 calacatta shine
lux rectified 29"x29"

WLE00133 calacatta shine
velvet rectified 12"x24"

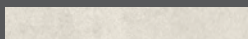
WLE00132 calacatta shine
velvet bullnose 4"x24"



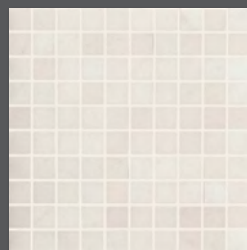
WLE00009 crystal white lux
rectified 24"x24"



WLE00017 crystal white
lux rectified 12"x24"



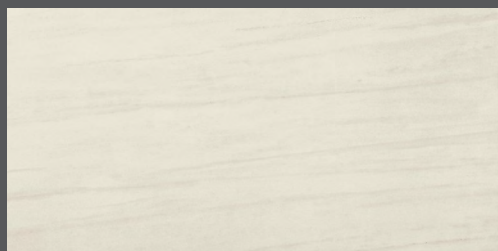
WLE00036 crystal white
lux rectified bullnose 4"x24"



WLE00042 crystal white lux
1"x1" mosaic
12"x12"

WLE00020 crystal white
velvet rectified 12"x24"

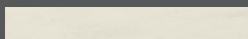
WLE00032 crystal white
velvet bullnose 4"x24"



WLE00920 lasa aurora lux polished 12"x24"

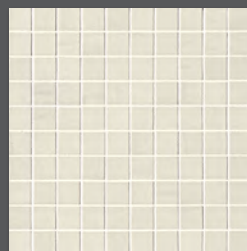
WLE00922 lasa aurora velvet matte 12"x24"

WLE00906 lasa aurora lux polished 24"x48"



WLE00913 lasa aurora
lux polished bullnose 4"x24"

WLE00914 lasa aurora
velvet matte bullnose 4"x24"



WLE00926 lasa aurora
lux polished 1"x1" mosaic
12"x12"

Bullnose pieces are recommended to be used in dry areas.

More sizes or finishes may be available through special order. Please contact your sales representative for more details.



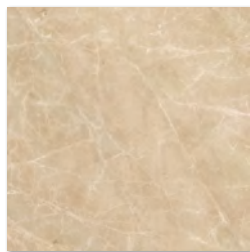
romance safari velvet rectified



lasa aurora lux polished



grey stone lux rectified



WLE00011 romance safari
lux rectified 24"x24"

WLE00015 romance safari
velvet rectified 24"x24"



WLE00019 romance safari
lux rectified 12"x24"

WLE00022 romance safari
velvet rectified 12"x24"

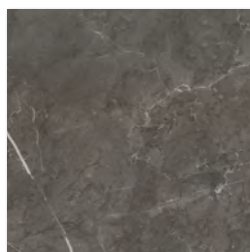


WLE00038 romance safari
lux rectified bullnose 4"x24"

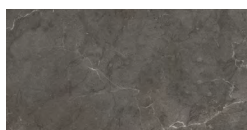
WLE00034 romance safari
velvet bullnose 4"x24"



WLE00040 romance safari
lux 1"x1" mosaic
12"x12"



WLE00120 gray stone
lux rectified 24"x24"



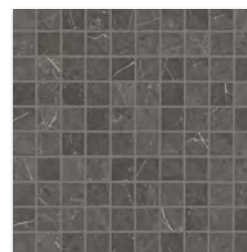
WLE00119 gray stone
lux rectified 12"x24"

WLE00124 gray stone
velvet rectified 12"x24"



WLE00122 gray stone
lux rectified bullnose 4"x24"

WLE00123 gray stone
velvet bullnose 4"x24"



WLE00118 gray stone
lux 1"x1" mosaic
12"x12"

technical characteristics	test method	required values	average value
water absorption	ISO 10545-3 ASTM C373	≤0.5%	≤0.5%
frost resistance	ISO 10545-12 ASTM C1026	no alteration as indicated by manufacturer	resistant
breaking strength	ISO 10545-4 ASTM C1505	≥ 1300 N/mm ² ≥ 250 lbf	2500 N 10mm / 3000 N 11mm 600 lbf 10mm / 700 lbf 11mm
modulus of rupture	ISO 10545-4	≥ 35 N/mm ²	50 N/mm ²
resistance to deep abrasion	ISO 10545-6 ASTM C1243	≤ 175 mm ³	145 mm ³
linear thermal expansion	ISO 10545-8 ASTM C372	no provision	$\alpha \leq 7 \times 10^{-6} \text{ }^{\circ}\text{C}^{-1}$ $\alpha \leq 4.4 \times 10^{-6} \text{ }^{\circ}\text{F}^{-1} / \alpha \leq 8 \times 10^{-6} \text{ }^{\circ}\text{C}^{-1}$
stain resistance	ISO 10545-14	class 3 min.	5 resistant velvet ≥ 3 lux
	ASTM C1378	as indicated by manufacturer	A resistant velvet C lux
chemical resistance*	ISO 10545-13 ASTM C650	as indicated by manufacturer	LA - resistant A resistant
frost resistance	ISO 10545-12 ASTM C1026	as indicated by manufacturer	resistant
	ANSI A326.3	DCOF ≥ 0.42	DCOF ≥ 0.42 velvet
fire reaction	EN 13823 EN 9239-1	CPR (UE) 305/2011, 2000/147/CE UNI EN 13501-1	class A1 (wall) class A1fl (floor)
flame spread	ASTM	no provision	class A
thermal conductivity	EN 12524	-	$\lambda = 1.3 \text{ W/m}^{\circ}\text{K} / 0.7 \text{ BTU/ft h}^{\circ}\text{F}$
recommended minimum joint**	RETT-RECT (indoor)	-	2mm
shade variation	ANSI A137.1	as indicated by manufacturer	moderate variation

*Excluding hydrofluoric acid and its derivatives.

** The width of grout joints must be established by the installation supervisor, unless grout widths are registered by national laying standards. The LUX finish is only recommended for residential and light commercial applications.

Bullnose pieces are recommended to be used in dry areas.

More sizes or finishes may be available through special order. Please contact your sales representative for more details.





WIS11839 melted ice honed 12"x24"



WIS11898 melted ice honed bullnose 3"x24"



WIS11838 aqua honed 12"x24"



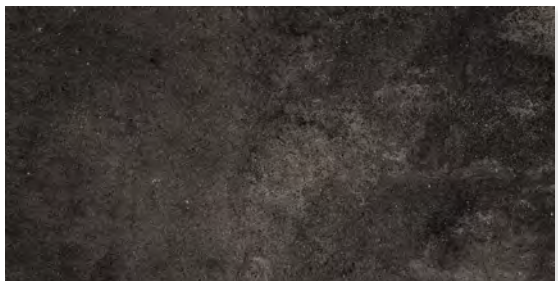
WIS11897 aqua honed bullnose 3"x24"



WIS11840 sage honed 12"x24"



WIS11899 sage honed bullnose 3"x24"



WIS11841 weathered black honed 12"x24"



WIS11900 weathered black honed bullnose 3"x24"

Bullnose pieces are recommended to be used in dry areas.

More sizes or finishes may be available through special order. Please contact your sales representative for more details.





sage honed

PHYSICAL PROPERTIES	TEST	INDUSTRY STANDARDS	RESULTS COLORED BODY	
Water Absorption Size Calibrated (non rectified)	ASTM C373	0.5% Maximum	$\leq 0.1\%$	
	ASTM C499	• Range of Thickness (inch)	≤ 0.040	
	ASTM C499	• Average Facial Dimension	$\leq \pm 0.50\%$	
	ASTM C485	• Warpage	$\leq \pm 0.75\%$	
	ASTM C485	• Warpage	$\leq \pm 0.50\%$	
	ASTM C502	• Warpage	$\leq \pm 0.50\%$	
Rectified	ASTM C499	• Wedging	≤ 0.040	
	ASTM C499	• Range of Thickness (inch)	$\leq 0.25\%$	
	ASTM C485	• Average Facial Dimension	$\leq 0.40\%$	
	ASTM C485	• Warpage	$\leq 0.40\%$	
	ASTM C502	• Warpage	$\leq 0.25\%$	
Bond Strength	ASTM C482	• Warpage	> 200 psi	
Deep Abrasion	ASTM C1243	• Wedging	< 150 mm ³	
Hardness (Mohs scale)		50 psi or greater	≥ 7	
Frost Resistance (Freeze/Thaw)	ASTM C1026	< 175 mm ³	No cracking or spalling occurred	
	ASTM C650	No requirement	Class A	
Chemical Resistance	ASTM C648	No sample must show alterations to surface	≥ 350 lbf	
Breaking Strength	ASTM C1028	No requirement	Per collection	
Coefficient of Friction (static)		250 lbf or greater		
		No requirement		

Acutest
DCOF
Wet ≥ 0.42

C1028
COF
Dry ≥ 0.80
Wet ≥ 0.60





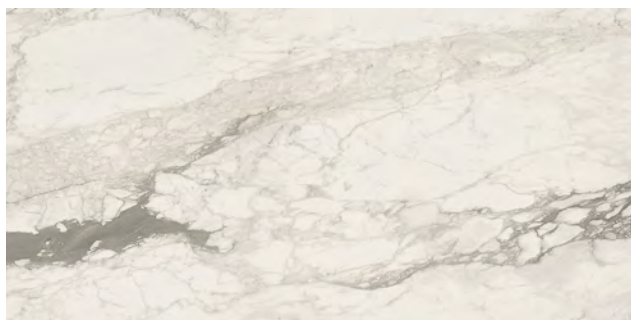
WIS12565 romano greige polished rectified 12"x24"

WIS12550 romano greige honed rectified 12"x24"



WIS12566 romano white polished rectified 12"x24"

WIS12551 romano white honed rectified 12"x24"



WIS12563 calacatta renoire polished rectified 12"x24"

WIS12547 calacatta renoire honed rectified 12"x24"



WIS12564 carrara onyx grey polished rectified 12"x24"

WIS12548 carrara onyx grey honed rectified 12"x24"



WIS12562 carrara zebrino polished rectified 12"x24"

WIS12549 carrara zebrino honed rectified 12"x24"

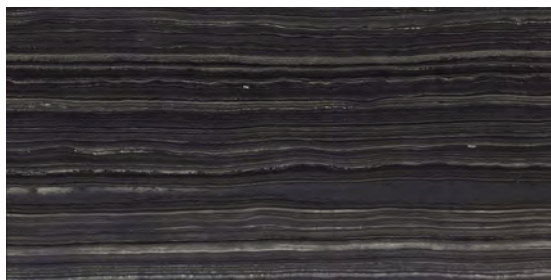
More sizes or finishes may be available through special order. Please contact your sales representative for more details.



physical properties	ASTM test	industry standards	results
water absorption	C373	impervious < 0.5 %	≤ 0.1 %
thickness dimension	C499	range ±0.04in Max.	≤ ±0.04 in
facial dimension	C499	±0.25 %	≤ ±0.25 %
warpage average	C485	≤ ±0.40 % on any edge	≤ ±0.40 %
warpage average	C485	≤ ±0.40 % on diagonal	≤ ±0.40 %
wedging average	C502	±0.25 %	≤ ±0.25 %
bond strength	C482	≥ 50 psi	≥ 200 psi
breaking strength	C648	≥ 250 lbf	≥ 400 lbf
hardness (Mohs)	scratch test (no regulated)	range 0 -10	≥ 7
visible abrasion resistance for glaze tile	C1027	no requirement range 0 - 5	class 4
frost resistance (freeze/thaw)	C1026	no sample must show alterations to surface	no evidence of damage
chemical resistance	C650	no requirement range E - A	class A
stain resistance	C1378	no requirement range E - A	class A*
coefficient of friction (dynamic)	DCOF acutest sm (wet)	≥ 0.42	≥ 0.50*
aesthetic classification	visual evaluation shade & texture	no requirement range V0 - V4	V2

* All values given are for matte or honed material. No values are given for polished material. It is not recommended for polished surfaces to be in an area subjected to exposure from grease, oil or water.





WIS11869 universe honed 12"x 24"



WIS11916 universe honed bullnose 3"x 24"



WIS11868 taupe blend honed 12"x 24"



WIS11915 taupe blend honed bullnose 3"x 24"



WIS11867 classic tan honed 12"x 24"



WIS11914 classic tan honed bullnose 3"x 24"



WIS11865 azul honed 12"x 24"



WIS11912 azul honed bullnose 3"x 24"



WIS11866 bright honed 12"x 24"



WIS11913 bright honed bullnose 3"x 24"

Bullnose pieces are recommended to be used in dry areas.

More sizes or finishes may be available through special order. Please contact your sales representative for more details.





physical properties	test	industry standards	results colored body	
water absorption size calibrated (non rectified)	ASTM C373	0.5% maximum	$\leq 0.1\%$	
rectified	ASTM C499 ASTM C499 ASTM C485 ASTM C485 ASTM C502 ASTM C499 ASTM C499 ASTM C485 ASTM C485 ASTM C502 ASTM C482 ASTM C1243	• range of thickness (inch) 0.040 • average facial dimension $\pm 0.50\%$ • warpage $\pm 75\%$ on any edge • warpage $\pm 50\%$ on diagonal • wedging $\pm 0.50\%$ • range of thickness (inch) 0.040 • average facial dimension $\pm 0.25\%$ • warpage $\pm 0.40\%$ on any edge • warpage $\pm 0.40\%$ on diagonal • wedging $\pm 0.40\%$ on diagonal	≤ 0.040 $\leq \pm 0.50\%$ $\leq \pm 0.75\%$ $\leq \pm 0.50\%$ $\leq \pm 0.50\%$ ≤ 0.040 $\leq 0.25\%$ $\leq 0.40\%$ $\leq 0.40\%$ $\leq 0.25\%$	acutest DCOF wet ≥ 0.42
bond strength deep abrasion hardness (mohs scale) frost resistance (freeze/thaw)	ASTM C1026	50 psi or greater $< 175 \text{ mm}^3$ no requirement no sample must show alterations to surface no requirement	$> 200 \text{ psi}$ $< 150 \text{ mm}^3$ ≥ 7 no cracking or spalling occurred class A	C1028 COF dry ≥ 0.80 wet ≥ 0.60
chemical resistance breaking strength coefficient of friction (static)	ASTM C650 ASTM C648 ASTM C1028	250 lbf or greater no requirement	$\geq 350 \text{ lbf}$ Per collection	

floor/wall tiles - in stock



WIS11988 block grey rectified 12"x24" lappato



WIS11976 block white matte 12"x24"



WIS11990 block white rectified 12"x24" lappato

More sizes or finishes may be available through special order. Please contact your sales representative for more details.





block white matte

technical characteristics	standard test	required value	average value
sizes	calibrated		
	ASTM C499	• range of thickness (inch) 0.040	≤ 0.040
	ASTM C499	• average facial dimension $\pm 0.50\%$	$\leq \pm 0.50\%$
	ASTM C485	• warpage $\pm 75\%$ on any edge	$\leq \pm 0.75\%$
	ASTM C485	• warpage $\pm 50\%$ on diagonal	$\leq \pm 0.50\%$
	ASTM C502	• wedging $\pm 0.50\%$	$\leq \pm 0.50\%$
	rectified		
	ASTM C499	• range of thickness (inch) 0.040	≤ 0.040
	ASTM C499	• average facial dimension $\pm 0.25\%$	$\leq \pm 0.25\%$
	ASTM C485	• warpage $\pm 0.40\%$ on any edge	$\leq \pm 0.40\%$
	ASTM C485	• warpage $\pm 0.40\%$ on diagonal	$\leq \pm 0.40\%$
	ASTM C502	• wedging $\pm 0.25\%$	$\leq \pm 0.25\%$
water absorption	ASTM C373	$E \leq 0.5\%$	0.01%
bending strength	ASTM C482	50 psi or greater	> 200 psi
resistance to abrasion	ASTM C1243	according to manufacturer's data	< 150 mm ³
coefficient of linear thermal expansion	ASTM C1028	no requirement	per collection
resistance to thermal shock	-	test method available	guaranteed
frost resistance	ASTM C1026	no sample must show alterations to surface	no cracking or spalling occurred
chemical resistance	ASTM C650	no requirement	Class A
breaking strength	ASTM C648	250 lbf or greater	≥ 350 lbf

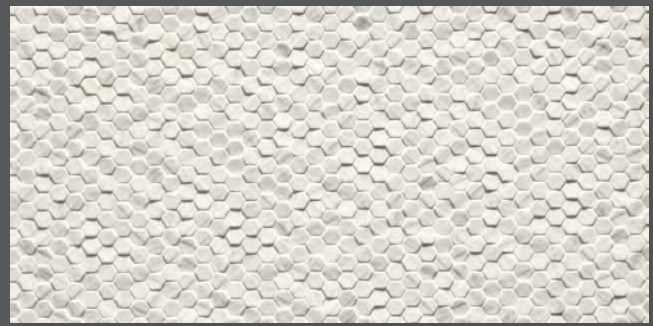




WPM00042 carrara matte & rectified 12"x24"

WPM00049 carrara matte & rectified 4"x12"

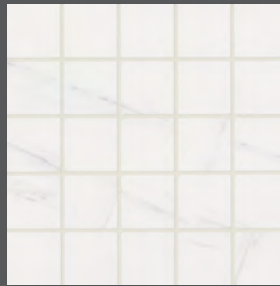
WPM00038 carrara polished & rectified 2"x24"



WPM00073 carrara esagonetta 3d texture matte & rectified 12"x24"



WPM00053
carrara matte & rectified hexagon
6 1/2"x5 2/3"



WPM00065
carrara matte & rectified
2"x2"



WPM00106 carrara polished & rectified bullnose
3"x24"

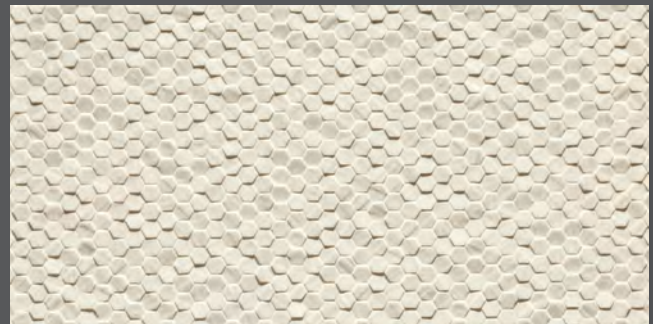
WPM00102 carrara matte & rectified bullnose
3"x24"



WPM00043 statuario gold matte & rectified 12"x24"

WPM00050 statuario gold matte & rectified 4"x12"

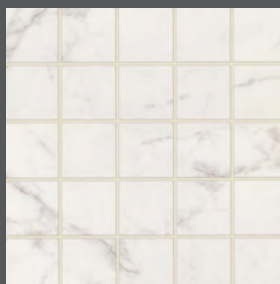
WPM00039 statuario gold polished & rectified 12"x24"



WPM00074 statuario gold esagonetta 3d texture matte & rectified 12"x24"



WPM00054
statuario gold matte & rectified hexagon
6 1/2"x5 2/3"



WPM00066
statuario gold
matte & rectified 2"x2"



WPM00103 statuario gold bullnose matte & rectified
3"x24"

WPM00107 statuario gold bullnose polished & rectified
3"x24"

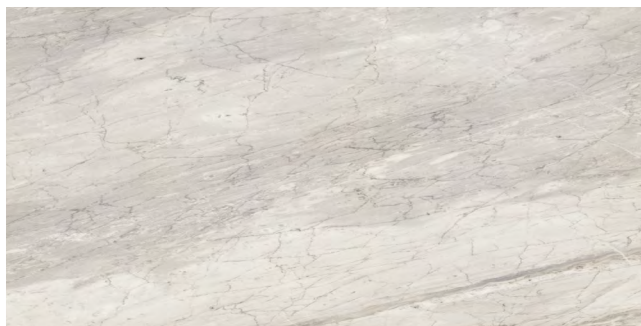
Bullnose pieces are recommended to be used in dry areas.

More sizes or finishes may be available through special order. Please contact your sales representative for more details.



grigio bardiglio matte & rectified

floor/wall tiles - in stock



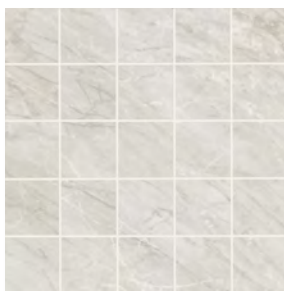
WPM00045 grigio bardiglio matte & rectified 12"x24"
WPM00052 grigio bardiglio matte & rectified 4"x12"
WPM00041 grigio bardiglio polished & rectified 12"x24"



WPM00075 grigio bardiglio esagonetta 3d texture matte & rectified 12"x24"



WPM00056 grigio bardiglio matte & rectified hexagon
6 1/2"x5 2/3"



WPM00068 grigio bardiglio matte & rectified 2"x2"



WPM00105 grigio bardiglio bullnose matte & rectified 3"x24"

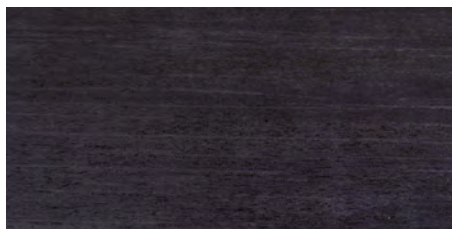
WPM00109 grigio bardiglio bullnose polished & rectified 3"x24"

Bullnose pieces are recommended to be used in dry areas.

More sizes or finishes may be available through special order. Please contact your sales representative for more details.

technical characteristics	norm	value required	mean value		tests
length & width	ISO 10545.2	$\pm 0.6\%$ ($\pm 2.00\text{mm}$)	in accordance		ASTM C-499 ASTM C-485 ASTM-502
thickness		$\pm 5\%$ ($\pm 0.5\text{mm}$)			
warpages of edges		$\pm 0.5\%$ ($\pm 1.5\text{mm}$)			
wedging		$\pm 0.5\%$ ($\pm 2.00\text{mm}$)			
flatness		$\pm 0.5\%$ ($\pm 2.00\text{mm}$)			
water absorption	ISO 10545.3		in accordance		ASTM C-373
bending strength	ISO 10545.4	$\geq 35\text{N/mm}^2$	in accordance		ASTM C-648 250 LBS or greater
linear thermal expansion between 20° & 100° C	ISO 10545.8	according to builder's specifications	7x10-6 C-1		
thermal shock resistance	ISO 10545.9	request	resistant		
frost resistance	ISO 10545.12	request	resistant		ASTM C-1026
resistance to chemical attack	ISO 10545.13	according to builder's specifications	resistant		ASTM C-650
resistance to light	DIN 51094	no alteration	In Accordance		
stain resistance	ISO 10545.13	test method available	In Accordance		
slippage resistance	DIN 51130	$9 \leq R \leq 13$	NAT		ASTM C-1028 COF ≥ 0.6 dry ≥ 0.6 wet
			SAT	D 0.63-W 0.62	
			LAP	D 0.62-W 0.61	
	DIN 51097	A,B,C	NAT		ANSI 137.1-2012 DCOF ≥ 0.42 wet
			SAT		
			LAP		
pendulum slip test	BS EN 7976-2	> 36 Dry > 36 Wet	NAT		
			SAT		
			LAP		

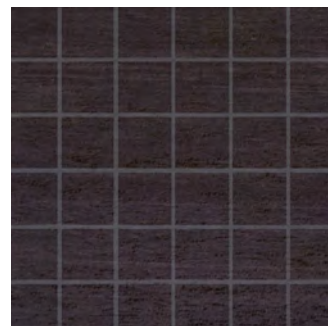




WCP0010 carbonio 12"x 24"



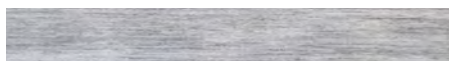
WCP0134 carbonio 3 1/2" x 24" bullnose



WCP0155 carbonio 2"x 2" mosaic



WCP0014 piombo 12"x 24"



WCP0138 piombo 3 1/2" x 24" bullnose



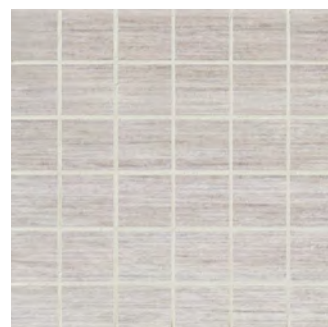
WCP0152 piombo 2"x 2" mosaic



WCP0013 argento 12"x 24"



WCP0137 argento 3 1/2" x 24" bullnose

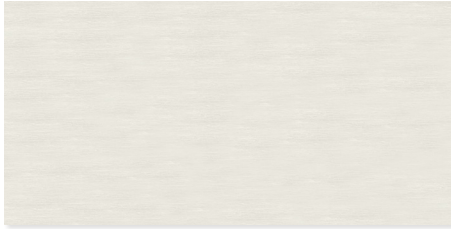


WCP0151 argento 2"x2" mosaic

Bullnose pieces are recommended to be used in dry areas.

More sizes or finishes may be available through special order. Please contact your sales representative for more details.

floor/wall tiles - in stock



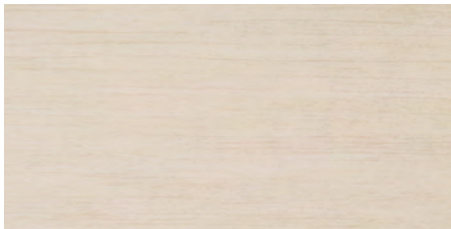
WCP0009 platino 12"x 24"



WCP0133 platino 3 1/2" x 24" bullnose



WCP0156 platino 2"x 2" mosaic



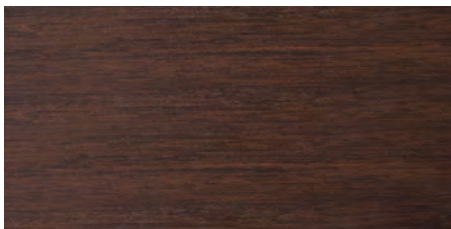
WCP0012 iridio 12"x 24"



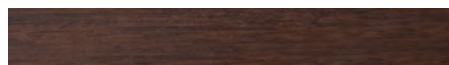
WCP0136 iridio 3 1/2" x 24" bullnose



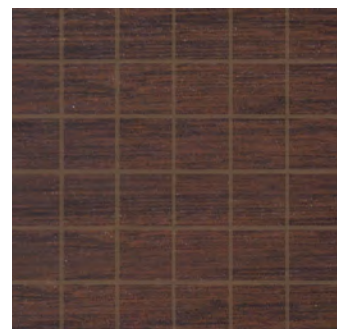
WCP0153 iridio 2"x 2" mosaic



WCP0016 bronzo 12"x 24"



WCP0140 bronzo 3 1/2" x 24" bullnose



WCP0154 bronzo 2"x 2" mosaic

Bullnose pieces are recommended to be used in dry areas.
More sizes or finishes may be available through special order. Please contact your sales representative for more details.

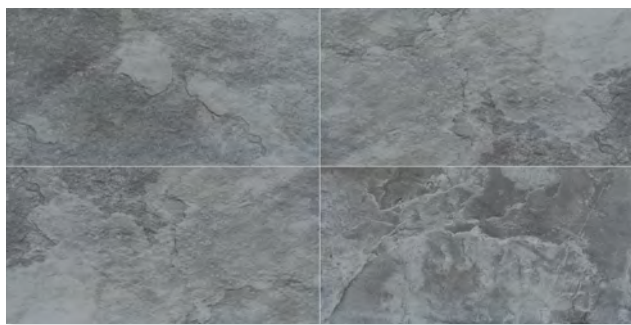


argento

	standards	test results (approx value)
product classification	Uni En 14411 Iso 13006	group bia gl - fully vitrified
dimensional and surface quality	Uni En Iso 10545-2	very low tolerance
water absorption	Uni En Iso 10545-3	≤ 0.1%
flexural strength	Uni En Iso 10545-4	N/Mm ² 50÷60
frost resistance	all standards	guaranteed
resistance to acids and alkalis (With the exception of hydrofluoric acid)	Uni En Iso 10545-13	Ua
wear and abrasion resistance		high
linear thermal expansion	Uni En Iso 10545-8	6x10 ⁻⁶
light fastness	Din 51094	no change of colours
stain resistance		guaranteed
slip resistance	Din 51130	R9 A



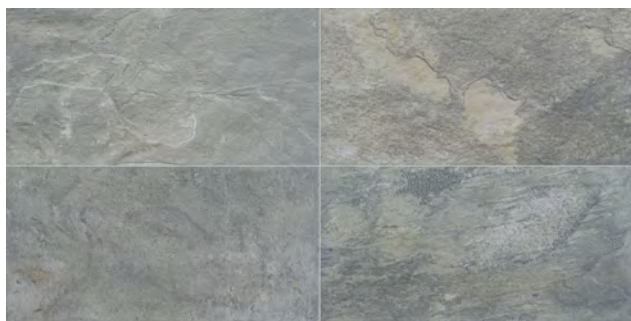
statuario polished rectified



WQA10054 slate stone grey 12"x24" matte



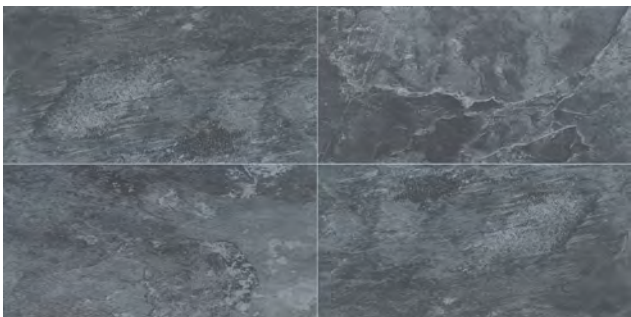
WQA10036 milo grey 12"x24" matte



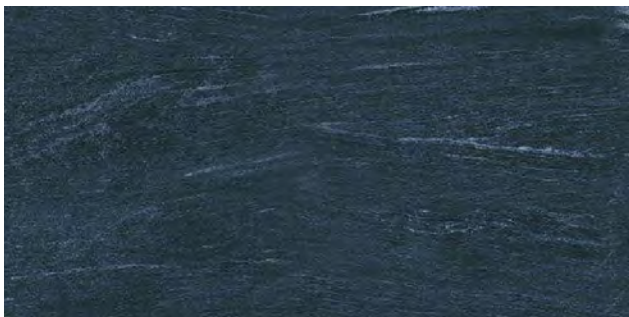
WQA10051 slate stone cream 12"x24" matte



WQA10044 milo silver 12"x24" matte



WQA10048 slate stone dark grey 12"x24" matte



WQA10040 milo black 12"x24" matte



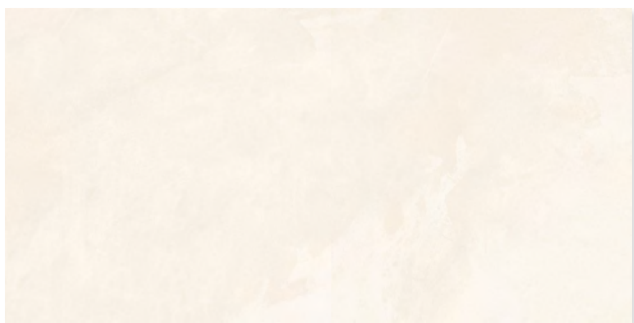
WQA10060 basalt black 12"x24" matte rectified



WQA10066 statuario 12"x24" matte rectified
WQA10059 statuario 12"x24" polished rectified
WQA10064 statuario 24"x48" polished rectified

More sizes or finishes may be available through special order. Please contact your sales representative for more details.





WQA10024 blow bianco 12"x24" matte



WQA10028 blow grigio 12"x24" matte



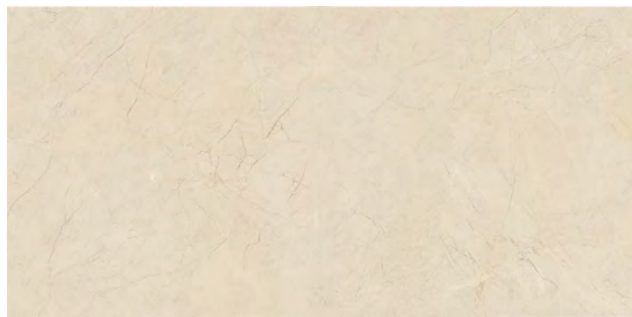
WQA10032 blow nero 12"x24" matte



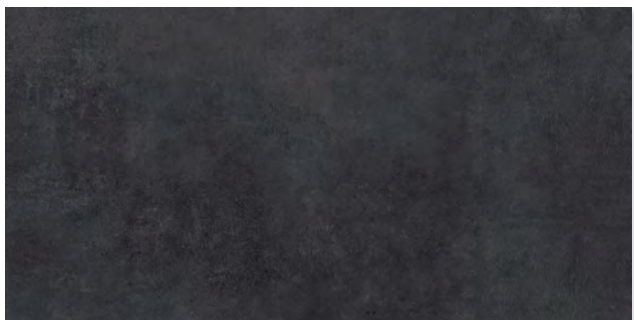
WQA10061 pulpis grey 12"x24" polished rectified



WQA10062 pulpis nero 12"x24" polished rectified



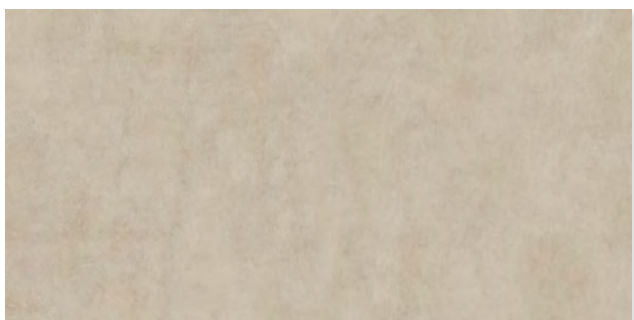
WQA10075 mood ivory 12"x24" polished rectified



WQA10119 ark black 12"x24" matte rectified



WQA10120 ark silver 12"x24" matte rectified



WQA10033 ark ivory 12"x24" matte rectified

More sizes or finishes may be available through special order. Please contact your sales representative for more details.

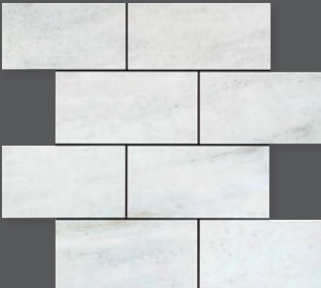




WQA10001 pearl polished rectified 12"x24"



WQA10004 pearl polished 2"x2" mosaic



WQA10008 pearl polished
3"x6" brick staggered mosaic



WQA10006 pearl polished
1"x2" herringbone mosaic



WQA10010 marginal white polished rectified 12"x24"
WQA10012 marginal white polished rectified 24"x48"
WQA10020 marginal white matte rectified 12"x24"



WQA10014 marginal white polished 2"x2" mosaic
WQA10022 marginal white matte 2"x2" mosaic



WQA10018 marginal white polished
3"x6" brick staggered mosaic



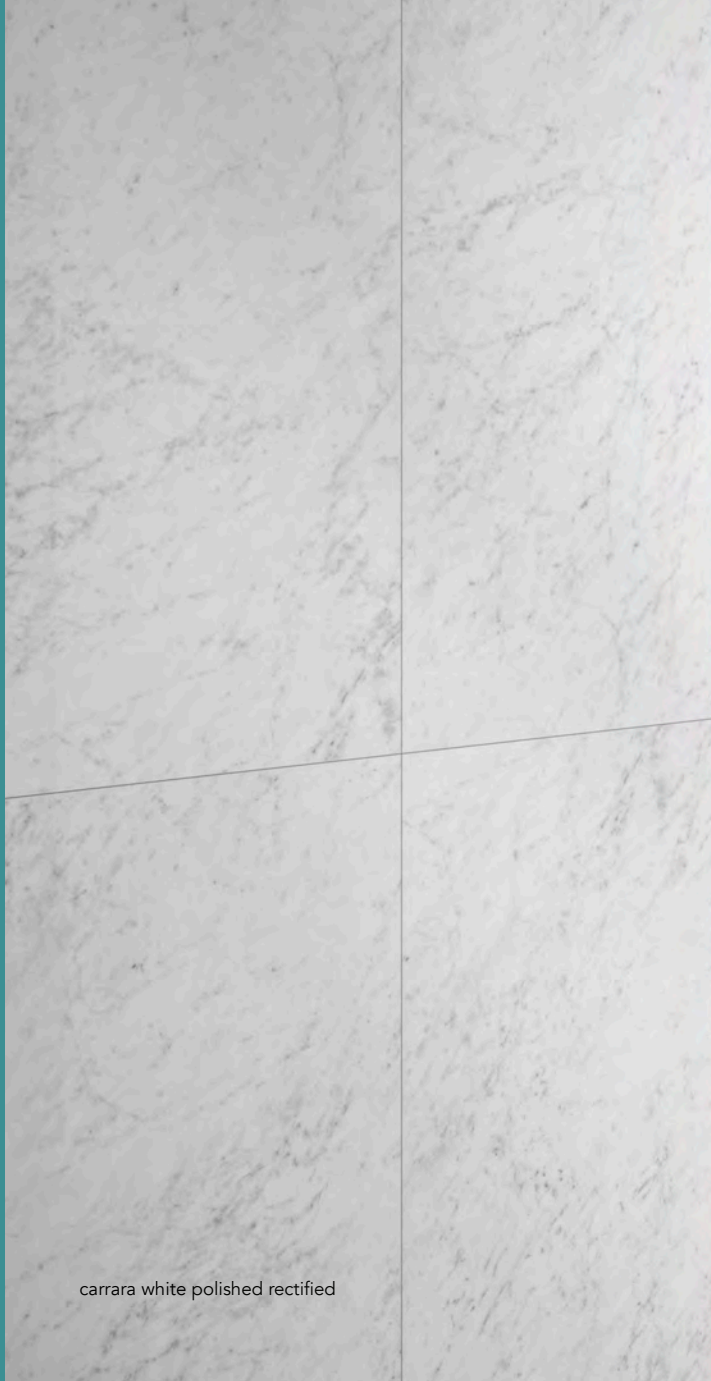
WQA10016 marginal white polished
1"x2" herringbone mosaic

More sizes or finishes may be available through special order. Please contact your sales representative for more details.



property	standards	tse en 14411 annex-g grup bla (eb ≤ % 0.5)	test method
length & width	±%0.2	±%0.6	TE EN ISO 10545/2
thickness	±%5.0	±%5.0	TE EN ISO 10545/2
side straightness	±%0.2	±%0.5	TE EN ISO 10545/2
rectangularity	±%0.2	±%0.5	TE EN ISO 10545/2
center curvature	±%0.2	±%0.5	TE EN ISO 10545/2
edge curvature	±%0.2	±%0.5	TE EN ISO 10545/2
warpage	±%0.2	±%0.5	TE EN ISO 10545/2
surface quality	defective	defective	TE EN ISO 10545/2
water absorption	max. %0.1	max. %0.5	TE EN ISO 10545/3
modulus of rupture	min. 51 N/mm ²	min. 35 N/mm ²	TE EN ISO 10545/4
impact resistance	resistant	resistant	TE EN ISO 10545/5
surface abrasion class	declared	as declared	TE EN ISO 10545/7
linear thermal expansion coefficient	max. 9X10 ⁻⁶ K ⁻¹	as declared	TE EN ISO 10545/8
thermal shock	resistant	resistant	TE EN ISO 10545/9
cracking resistance	resistant	resistant	TE EN ISO 10545/11
frost resistance	resistant	resistant	TE EN ISO 10545/12
resistance to staining	min. Class 3	min. Class 3	TE EN ISO 10545/14
resistance to acids	min. Class GLB - GHB	min. Class GLB - GHB	TE EN ISO 10545/13
resistance to household chemical	min. Class GB	min. Class GB	TE EN ISO 10545/13

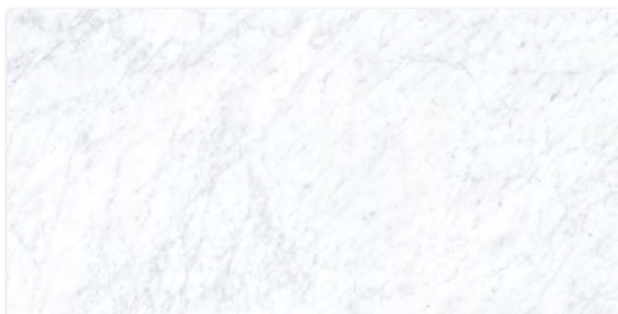
name	variation degree	pei	finish
pulpis	V3	-	polished
statuario	V2	-	polished
basalt	V3	3	matte
milo	V3	4	matte
slate stone	V3	4	matte
blow	V2	3	matte
marginal white	V1	-	polished
		3	matte
pearl	V2	-	polished



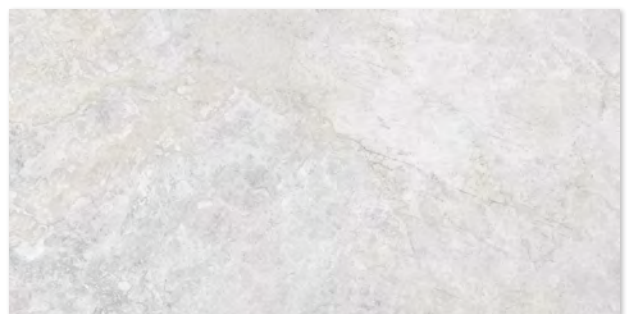
carrara white polished rectified



floor/wall tiles - in stock



WVT00002 carrara white 24"x48" polished rectified

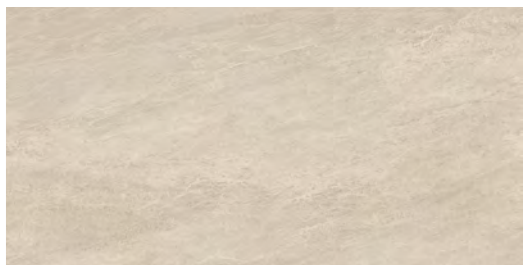


WVT00004 royal ivory 24"x48" polished rectified

More sizes or finishes may be available through special order. Please contact your sales representative for more details.

dimension & surface quality	test standards	thickness ≥ 7.5mm glazed	tiles product value
length & width	EN ISO 10545-2	max. ± 0.6% and ±2.0mm	max. ± 0.6% and ±2.0mm
thickness		max. ± 5% and ±0.5mm	max. ± 5% and ±0.5mm
side straightness		max. ± 0.5% and ±1.5mm	max. ± 0.5% and ±1.5mm
rectangularity		max. ± 0.5% and ±2.0mm	max. ± 0.5% and ±2.0mm
surface flatness (center & edge)		max. ± 0.5% and ±2.0mm	max. ± 0.5% and ±2.0mm
surface flatness (warpage)		max. ± 0.5% and ±2.0mm	max. ± 0.5% and ±2.0mm
surface quality		min. 95 %	min. 95 %
physical properties			
water absorption	EN ISO 10545-3	avg. ≤ 0.5%	avg. ≤ 0.5%
breaking strength	EN ISO 10545-4	>1300 N	>1300 N
modulus of rupture		>35 N/mm²	>35 N/mm²
deep abrasion	EN ISO 10545-6	not applicable	not applicable
surface abrasion	EN ISO 10545-7	report abrasion class & cycles passed	PEI 1-5
linear thermal expansion	EN ISO 10545-8	declared value	max. 8 x10 ⁻⁶ k ⁻¹
thermal shock resistance	EN ISO 10545-9	pass	pass
crazing resistance	EN ISO 10545-11	pass	pass
frost resistance	EN ISO 10545-12	pass	pass
slipperiness	declared test method	declared value	no performance determined (DIN 51130) no performance determined (DIN 51097)
moisture expansion	EN ISO 10545-10	declared value	no performance determined
small color differences (for plain colors)	EN ISO 10545-16	not applicable	not applicable
impact resistance	EN ISO 10545-5	declared value	no performance determined
bond strength (cementitious adhesives)	EN 12004:2007	declared value	≥ 0.5 N/mm2 (Type C2)
reaction to fire	-	Class A1 or A1fl	Class A1fl
chemical resistance			
staining resistance	EN ISO 10545-14	min. Class 3	min. Class 3
resistance to household chemicals & swimming pool salts	EN ISO 10545-13	min. Class B	Class A
resistance to low concentrations of acids & alkalis		declared value	LA - LC
resistance to high concentrations of acids & alkalis		declared value	HA - HC
lead and cadmium release	EN ISO 10545-15	declared value	no performance determined





WNB00282 taupe natural rectified
12"x24"



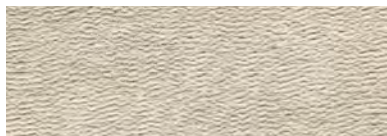
WNB00281 taupe struttura cesello r11
12"x24"



WNB00487 taupe 2x2 natural
12"x12" mosaic



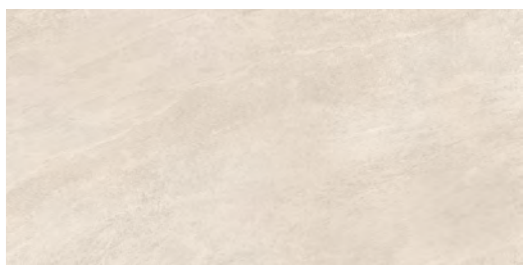
WNB00480 taupe rectified
4"x12"



WNB00479 taupe strut cesello rectified
4"x12"



WNB00332 taupe battiscopa natural
2 3/4"x24"



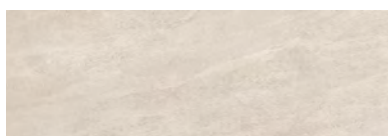
WNB00284 ivory natural rectified
12"x24"



WNB00283 ivory struttura cesello r11
12"x24"



WNB00488 ivory 2x2 natural
12"x12" mosaic



WNB00482 ivory rectified
4"x12"



WNB00481 ivory strut cesello rectified
4"x12"



WNB00333 ivory battiscopa natural
2 3/4"x24"

floor/wall tiles - in stock



WNB00288 slate natural rectified
12"x24"



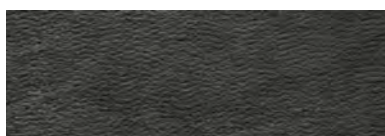
WNB00287 slate struttura cesello r11
12"x24"



WNB00489 slate 2x2 natural
12"x12" mosaic



WNB00484 slate rectified
4"x12"



WNB00483 slate strut cesello rectified
4"x12"



WNB00334 slate battiscopa natural
2 3/4"x24"



WNB00278 dark grey natural rectified
12"x24"



WNB00277 dark grey struttura cesello r11
12"x24"



WNB00486 dark grey 2x2
natural 12"x12" mosaic



WNB00478 dark grey rectified
4"x12"



WNB00477 dark grey strut cesello rectified
4"x12"



WNB00331 dark grey battiscopa natural
2 3/4"x24"

More sizes or finishes may be available through special order. Please contact your sales representative for more details.



floor/wall tiles - in stock



WNB00274 light grey natural rectified
12"x24"



WNB00273 light grey struttura cesello r11
12"x24"



WNB00485 light grey 2x2
natural 12"x12" mosaic



WNB00476 light grey rectified
4"x12"



WNB00475 light grey strut cesello rectified
4"x12"



WNB00330 light grey battiscopa natural
2 3/4"x24"

More sizes or finishes may be available through special order. Please contact your sales representative for more details.



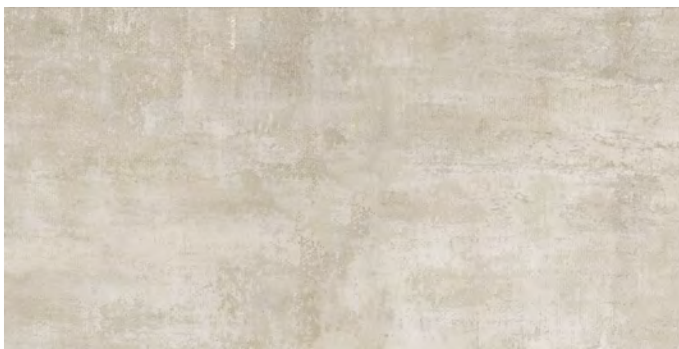
characteristics & test methods	requirements ANSI A 137.1	general values
determination of water absorption (ASTM C 373)	average value $E_b \leq 0.5\%$	average value $\leq 0.06\%$
classification	definition § 3.0	porcelain properties
physical properties		
breaking strength - (ASTM C 373)	average ≥ 250 lbf (1.11 kN) individual ≥ 225 lbf (1.00 kN)	complies
visible abrasion - (ASTM C 1027)	as reported	class 0 - 5
recommended use	Annex N - ISO 13006 / EN 14411	class 4
thermal shock resistance (ASTM C 428)	pass	complies
crazing resistance (ASTM C 1026)	pass	complies
resistance to freeze/thaw cycling (ASTM C 1026)	as reported	resistant
DCOF resistance (ANSI A 137.1)	$\geq 0.42^{(1)}$	DCOF ≥ 0.42
bond strength (ASTM C 482)	≥ 52 psi (0.34 MPa)	> 1 MPa
color uniformity (ASTM C 609 & ANSI A 137.1 section 9.3) ⁽²⁾	V0 - 3 Judds	see the specific section
chemical properties		
chemical resistance (ASTM C 650)	as reported	resistant
stain resistance (ASTM C 1378)	as reported	resistant
dimensions - calibrated tiles		
dimensions (ASTM C 499) - (ASTM C 485) - (ASTM C 502)	ANSI A 137.1	complies
dimensions - rectified tiles		
dimensions (ASTM C 499) - (ASTM C 485) - (ASTM C 502)	ANSI A 137.1	complies
scrath hardness of surface according to Mohs'	ex BS 6431-13 / ex EN 101	≥ 5

name	PEI
ivory	5
taupe	5
dark grey	4
light grey	4
slate	3



delight honed

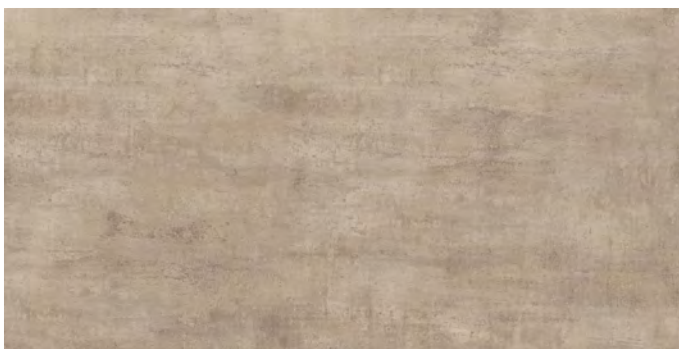




WIS12084 ash honed 12"x24"



WIS12085 blanc honed 12"x24"



WIS12086 delight honed 12"x24"



WIS12087 fog honed 12"x24"

More sizes or finishes may be available through special order. Please contact your sales representative for more details.





physical properties	ASTM Test	industry standards	results
water absorption	C373	impervious <0.5%	$\leq 0.1\%$
thickness dimension	C499	range ± 0.04 in Max	$\leq \pm 0.04$ in
facial dimension	C499	$\pm 0.25\%$	$\leq \pm 0.25\%$
warpage average	C485	$\pm 0.40\%$ on any edge	$\leq \pm 0.40\%$
warpage average	C485	$\pm 0.40\%$ on diagonal	$\leq \pm 0.40\%$
warpage average	C502	$\pm 0.25\%$	$\leq \pm 0.25\%$
bond strength	C482	≥ 50 psi	≥ 200 psi
breaking strength	C648	≥ 250 lbf	≥ 400 lbf
hardness (mohs)	scratch test (no regulated)	range 0 - 10	≥ 7
visible abrasion resistance for glaze tile	C1027	no requirement range 0 - 5	class 4
frost resistance (freeze/thaw)	C1026	no sample must show alterations to surface	no evidence of damage
chemical resistance	C650	no requirement range E - A	class A
stain resistance	C1378	no requirement range E - A	class A*
coefficient of friction (dynamic)	DCOF acutest sm (wet)	≥ 0.42	$\geq 0.42^*$
aesthetic classification	visual evaluation shade & texture	no requirement range V0 - V4	V2

*All values given are for matte or honed material. No values are given for polished material. Iris U.S. does not recommend polished surfaces in area subject to exposure from grease, oil or water.

For level interior spaces to be walked upon when wet (see ANSI A137.1 section 6.2.2.1.10 – Section 9.6 for test procedure).





WIS11885 bianco al contro matte 12"x 24"



WIS11922 bianco al contro matte 4"x 24" bullnose



WIS11893 argento al contro matte 12"x 24"



WIS11924 argento al contro matte 4"x 24" bullnose



WIS11889 grigio al contro rectified matte 12"x24"



WIS11923 grigio al contro matte 4"x24" bullnose

physical properties	test	industry standards		results colored body	
water absorbtion size calibrated (non rectified)	ASTM C373	0.5% maximum		≤ 0.1%	
rectified	ASTM C499	• range of thickness (inch)	0.040	≤ 0.040	acutest DCOF Wet ≥ 0.42
	ASTM C499	• average facial dimension	± 0.50%	≤ ± 0.50%	
	ASTM C485	• warpage	± 75% on any edge	≤ ± 0.75%	
	ASTM C485	• warpage	± 50% on diagonal	≤ ± 0.50%	
bond strength	ASTM C502	• wedging	± 0.50%	≤ ± 0.50%	C1028 COF dry ≥ 0.80 wet ≥ 0.60
	ASTM C499	• range of thickness (inch)	0.040	≤ 0.040	
	ASTM C499	• average facial dimension	± 0.25%	≤ 0.25%	
	ASTM C485	• warpage	± 0.40% on any edge	≤ 0.40%	
deep abrasion	ASTM C485	• warpage	± 0.40% on diagonal	≤ 0.40%	no cracking or spalling occurred class a ≥ 350 lbf per collection
hardness (mohs scale)	ASTM C502	• wedging	± 0.25%	≤ 0.25%	
frost resistance (freeze/thaw)	ASTM C482	50 psi or greater	± 0.25%	> 200 psi	
	ASTM C1243	< 175 mm ³		< 150 mm ³	
chemical resistance	ASTM C1026	no requirement		≥ 7	
breaking strength	ASTM C650	no sample must show alterations to surface		no cracking or spalling occurred	
coefficient of friction (static)	ASTM C648	250 lbf or greater		class a	
	ASTM C1028	no requirement		per collection	

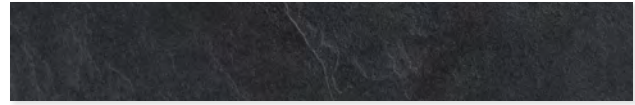
Bullnose pieces are recommended to be used in dry areas.

More sizes or finishes may be available through special order. Please contact your sales representative for more details.





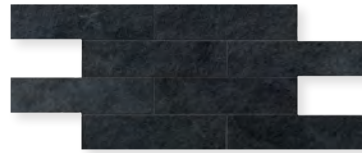
WLE00450 dark flow natural rectified 12"x24"
WLE00458 dark flow natural rectified 18"x36"
WLE00478 dark flow natural rectified 24"x24"



WLE00543 dark flow bullnose natural rectified 4"x24"



WLE00893 dark flow natural rectified 2"x2"
12"x12"



WLE00522 dark flow brick natural rectified
2 3/4"x11 1/2"
12"x24"



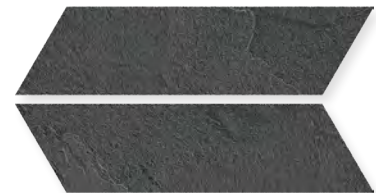
WLE00530 dark flow muretto natural rectified
12"x24"



WLE00490
dark flow gramma 16 natural rectified dx
7 43/64"x3 13/16"



WLE00494
dark flow gramma 16 natural rectified sx
7 43/64"x3 13/16"



WLE00506 (2 pc set)
dark flow gramma 72 natural rectified
19 39/64"x6 21/32"



WLE00502
dark flow gramma 66 natural rectified sx
15 7/16"x7 43/64"



WLE00498
dark flow gramma 66 natural rectified dx
15 7/16"x7 43/64"

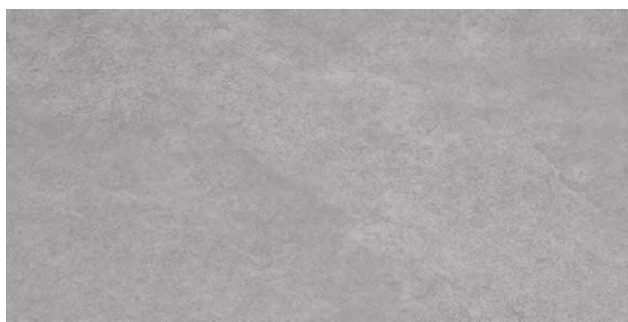
Bullnose pieces are recommended to be used in dry areas.

More sizes or finishes may be available through special order. Please contact your sales representative for more details.





floor/wall tiles - in stock



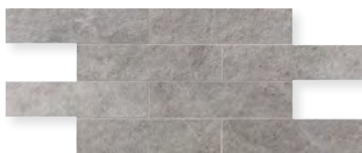
WLE00453 silver flow natural rectified 12"x24"
WLE00461 silver flow natural rectified 18"x36"
WLE00481 silver flow natural rectified 24"x24"



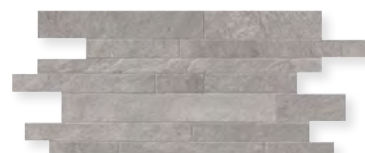
WLE00549 silver flow bullnose natural rectified 4"x24"



WLE00896 silver flow natural rectified 2"x2"
12"x24"



WLE00525 silver flow brick natural rectified
2 3/4"x11 1/2"
12"x24"



WLE00533 silver flow muretto natural rectified
12"x24"



WLE00493
silver flow gramma 16 natural rectified dx
7 43/64"x3 13/16"



WLE00497
silver flow gramma 16 natural rectified sx
7 43/64"x3 13/16"



WLE00509 (2 pc set)
silver flow gramma 72 natural rectified
19 39/64"x6 21/32"



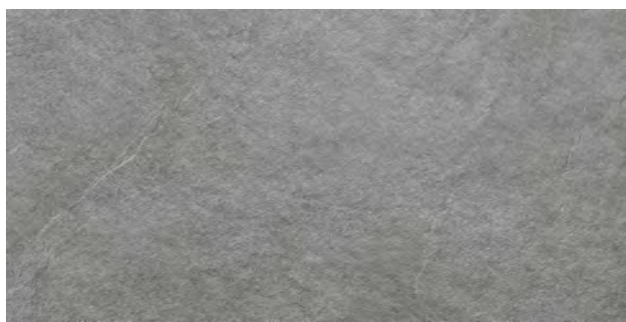
WLE00505
silver flow gramma 66 natural rectified sx
15 7/16"x7 43/64"



WLE00501
silver flow gramma 66 natural rectified dx
15 7/16"x7 43/64"

Bullnose pieces are recommended to be used in dry areas.

More sizes or finishes may be available through special order. Please contact your sales representative for more details.



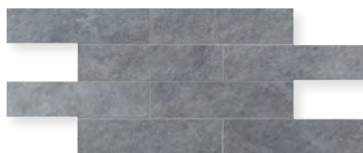
WLE00451 gray flow natural rectified 12"x24"
WLE00459 gray flow natural rectified 18"x36"
WLE00479 gray flow natural rectified 24"x24"



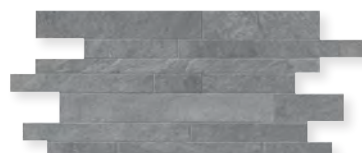
WLE00545 gray flow bullnose natural rectified 4"x24"



WLE00894 gray flow natural rectified 2"x2"
12"x12"



WLE00523 gray flow brick natural rectified
2 3/4"x11 1/2"
12"x24"



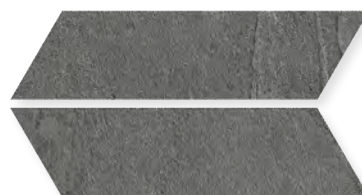
WLE00531 gray flow muretto natural rectified
12"x24"



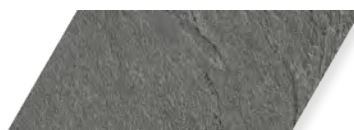
WLE00491
gray flow gramma 16 natural rectified dx
7 43/64"x3 13/16"



WLE00495
gray flow gramma 16 natural rectified sx
7 43/64"x3 13/16"



WLE00507 (2 pc set)
gray flow gramma 72 natural rectified
19 39/64"x6 21/32"



WLE00503
gray flow gramma 66 natural rectified sx
15 7/16"x7 43/64"

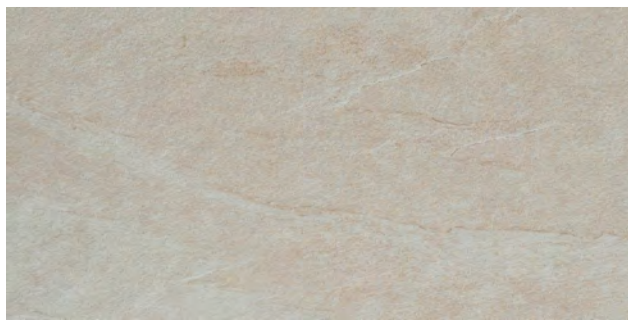


WLE00499
gray flow gramma 66 natural rectified dx
15 7/16"x7 43/64"

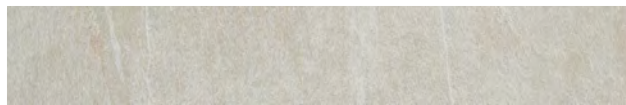
Bullnose pieces are recommended to be used in dry areas.

More sizes or finishes may be available through special order. Please contact your sales representative for more details.

floor/wall tiles - in stock



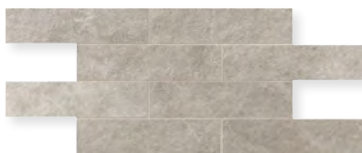
WLE00452 ivory flow natural rectified 12"x24"
WLE00460 ivory flow natural rectified 18"x36"
WLE00480 ivory flow natural rectified 24"x24"



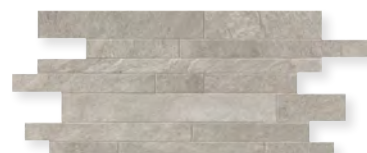
WLE00547 ivory flow bullnose natural rectified 4"x24"



WLE00895 ivory flow natural rectified 2"x2"
12"x12"



WLE00524 ivory flow brick natural rectified
2 3/4"x11 1/2"
12"x24"



WLE00532 ivory flow muretto natural rectified
12"x24"



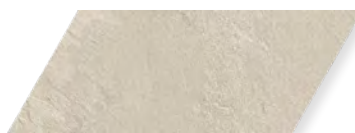
WLE00492
ivory flow gramma 16 natural rectified dx
7 43/64"x3 13/16"



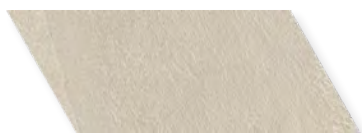
WLE00496
ivory flow gramma 16 natural rectified sx
7 43/64"x3 13/16"



WLE00508 (2 pc set)
ivory flow gramma 72 natural rectified
19 39/64"x6 21/32"



WLE00504
ivory flow gramma 66 natural rectified sx
15 7/16"x7 43/64"



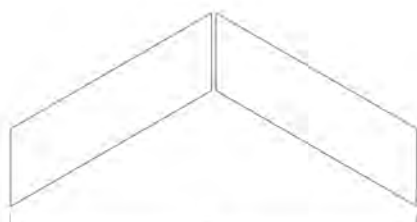
WLE00500
ivory flow gramma 66 natural rectified dx
15 7/16"x7 43/64"

Bullnose pieces are recommended to be used in dry areas.

More sizes or finishes may be available through special order. Please contact your sales representative for more details.

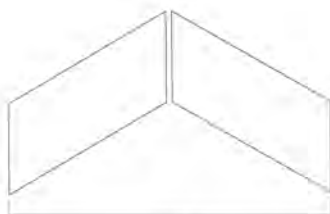
technical characteristics	test method	required values	average value
water absorption	ISO 10545-3 ASTM C373	$\leq 0.5\%$	$\leq 0.5\%$
frost resistance	ISO 10545-12 ASTM C1026	no alteration as indicated by manufacturer	resistant
breaking strength	ISO 10545-4 ASTM C1505	$\geq 1300 \text{ N/mm}^2$ $\geq 250 \text{ lbf}$	2500 N 10mm / 3000 N 11mm 600 lbf 10mm / 700 lbf 11mm
modulus of rupture	ISO 10545-4	$\geq 35 \text{ N/mm}^2$	50 N/mm ²
resistance to deep abrasion	ISO 10545-6 ASTM C1243	$\leq 175 \text{ mm}^3$	145 mm ³
linear thermal expansion	ISO 10545-8 ASTM C372	no provision	$\alpha \leq 7 \times 10^{-6} \text{ }^\circ\text{C}^{-1}$ $\alpha \leq 4.4 \times 10^{-6} \text{ }^\circ\text{F}^{-1} / \alpha \leq 8 \times 10^{-6} \text{ }^\circ\text{C}^{-1}$
stain resistance	ISO 10545-14	class 3 min.	5 resistant velvet $\geq 3 \text{ lux}$
	ASTM C1378	as indicated by manufacturer	A resistant velvet C lux
chemical resistance*	ISO 10545-13 ASTM C650	as indicated by manufacturer	LA - resistant A resistant
frost resistance	ISO 10545-12 ASTM C1026	as indicated by manufacturer	resistant
	ANSI A326.3	DCOF ≥ 0.42	DCOF ≥ 0.42 velvet
fire reaction	EN 13823 EN 9239-1	CPR (UE) 305/2011, 2000/147/CE UNI EN 13501-1	class A1 (wall) class A1fl (floor)
flame spread	ASTM	no provision	class A
thermal conductivity	EN 12524	-	$\lambda = 1.3 \text{ W/m}^\circ\text{K} / 0.7 \text{ BTU/ft h}^\circ\text{F}$
recommended minimum joint**	RETT-RECT (indoor)	-	2mm
shade variation	ANSI A137.1	as indicated by manufacturer	moderate variation

gramma



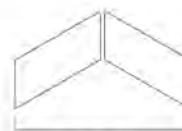
34"

gramma 72



27"

gramma 66



13.5"

gramma 16

MARBLE SYSTEMS

MID-ATLANTIC & MID-WEST DIVISION
2737 dorr avenue fairfax, va 22031
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WEST COAST DIVISION
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MIAMI & CARIBBEAN DIVISION
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SOUTHEAST DIVISION
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PUERTO RICO DIVISION
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DOMINICAN REPUBLIC
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