

specstones

PEN
NSY
LVAN
IA

— 3/4" THICKNESS

PENNSYLVANIA

the new bluestone

POPA 2.0

AN ITALIAN PORCELAIN PAVER MADE IN USA

 ¾" THICKNESS

PENNSYLVANIA

the new bluestone

POPA 2.0

AN ITALIAN PORCELAIN PAVER MADE IN USA

25 YEARS AGO KRONOS ESTABLISHED AN
AESTHETIC AND BUSINESS MODEL THAT
HAS BROUGHT MORE THAN TWO DECADES
OF SUCCESS, CONTINUING TO OFFER TO
THE CUSTOMERS SOMETHING UNIQUE:
A COMPASS TO GUIDE IN THE SEARCH FOR
AUTHENTICITY, ELEGANCE AND QUALITY.

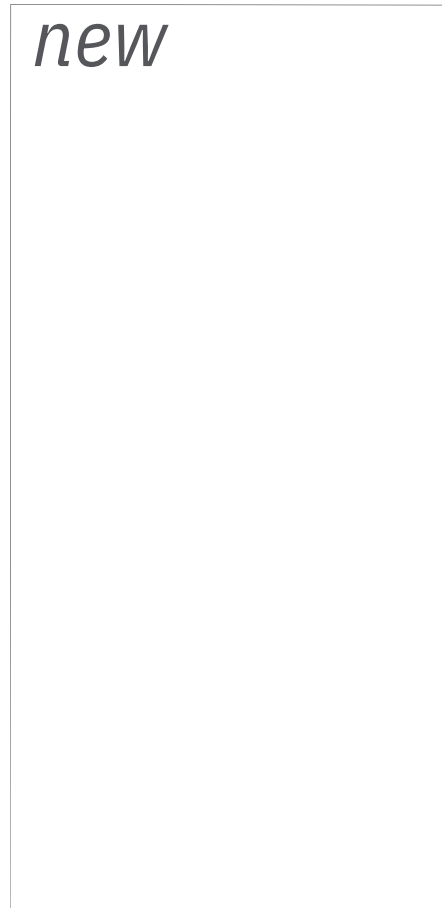
specstones

KRONOS USA SEARCHES
THE PAST AND CONSISTENT
WITH TRADITION REVISITS
PENNSYLVANIA BLUESTONE:
EXTREMELY RESISTANT
WITH A HIGH AESTHETIC
COMPONENT.
BLUESTONE WAS CHOSEN
BECAUSE IT IS THE TYPICAL
AMERICAN STONE FOR
OUTDOOR AND LANDSCAPING
INSTALLATION.

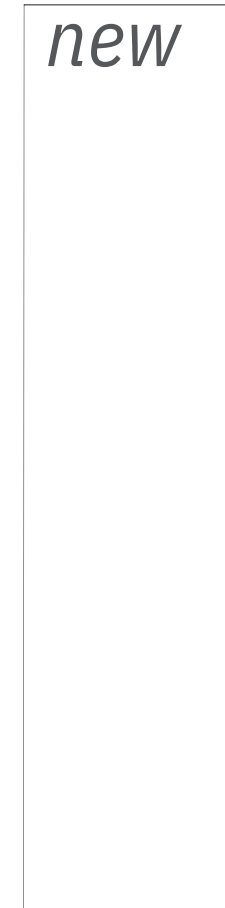


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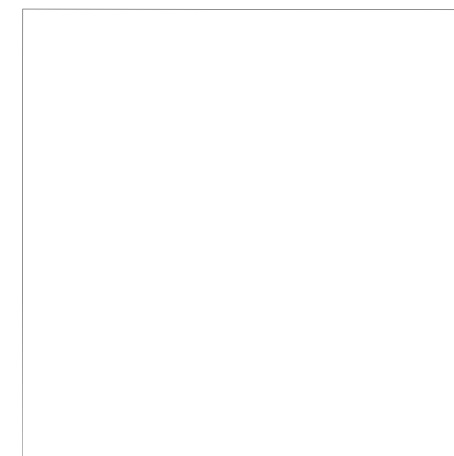
PENNSYLVANIA BLUESTONE
PORCELAIN PAVERS BY
KRONOS, WITH 3/4 THICKNESS
HAS BEEN SELECTED
BASED ON ITS LOW WATER
ABSORPTION AND STAIN
RESISTANCE. IT IS EXTREMELY
EASY TO CLEAN, INCREDIBLE
FREEZE-THAW DURABILITY
AND STRENGTH, ESPECIALLY
SIGNIFICANT IN THE COLDER
REGIONS OF THE UNITED
STATES AND CANADA.



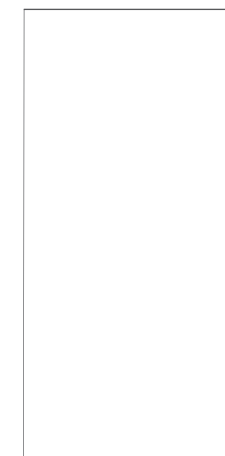
231/ 12"X47/8" rectified
 60x120 cm



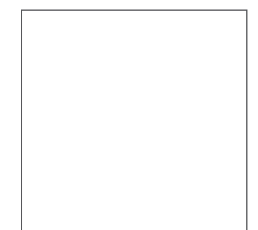
113/ 14"X47/8" rectified
 30x120 cm



231/12"X 23/2" rectified
 60x60 cm



113/14"X 23/2" rectified
 30x60 cm

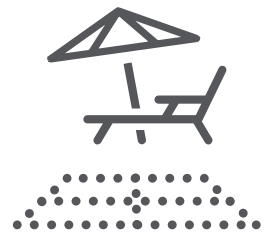


113/34"X 11/4"
 rectified 30x30 cm

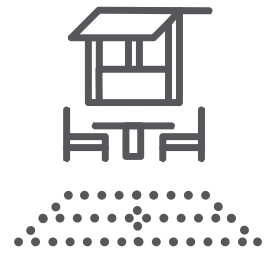
THE LONG-TERM
PERFORMANCE AND
SLIP-RESISTANCE OF
PENNSYLVANIA BLUESTONE
BY KRONOS MAKE IT AN
EXCELLENT CHOICE FOR MANY
APPLICATIONS:



PATIOS



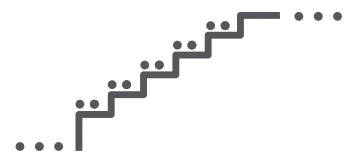
POOL DECKS



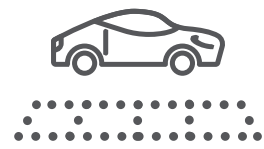
TERRACES



WALKWAYS



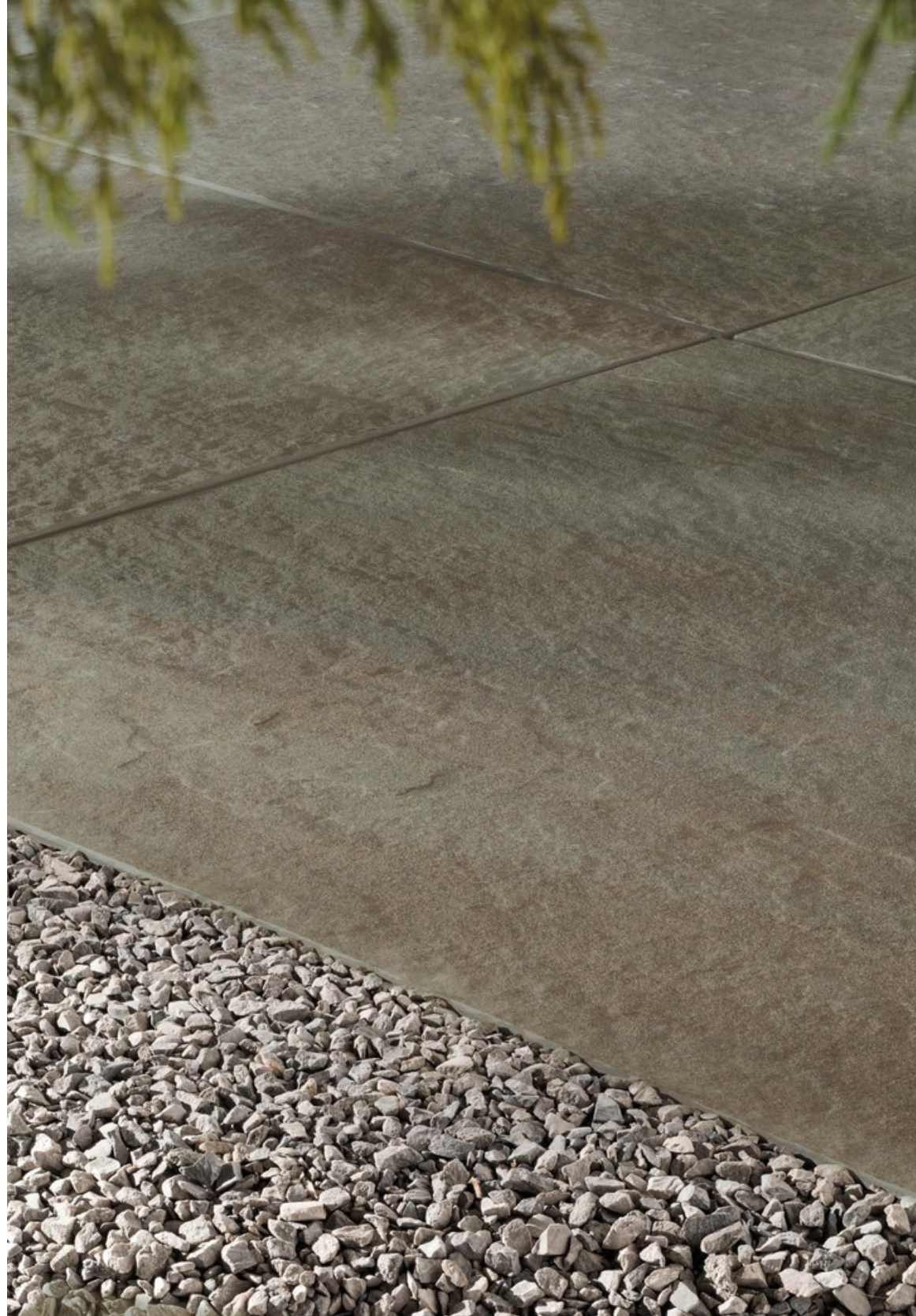
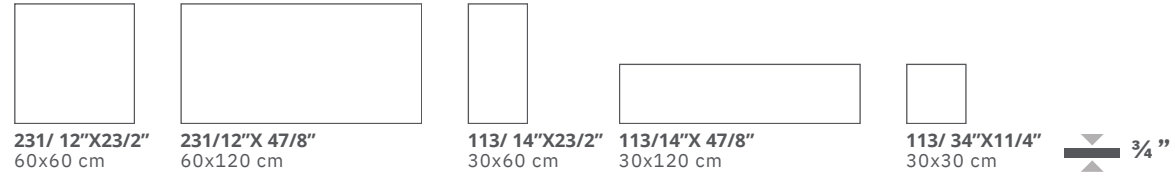
STAIRS AND STEPS



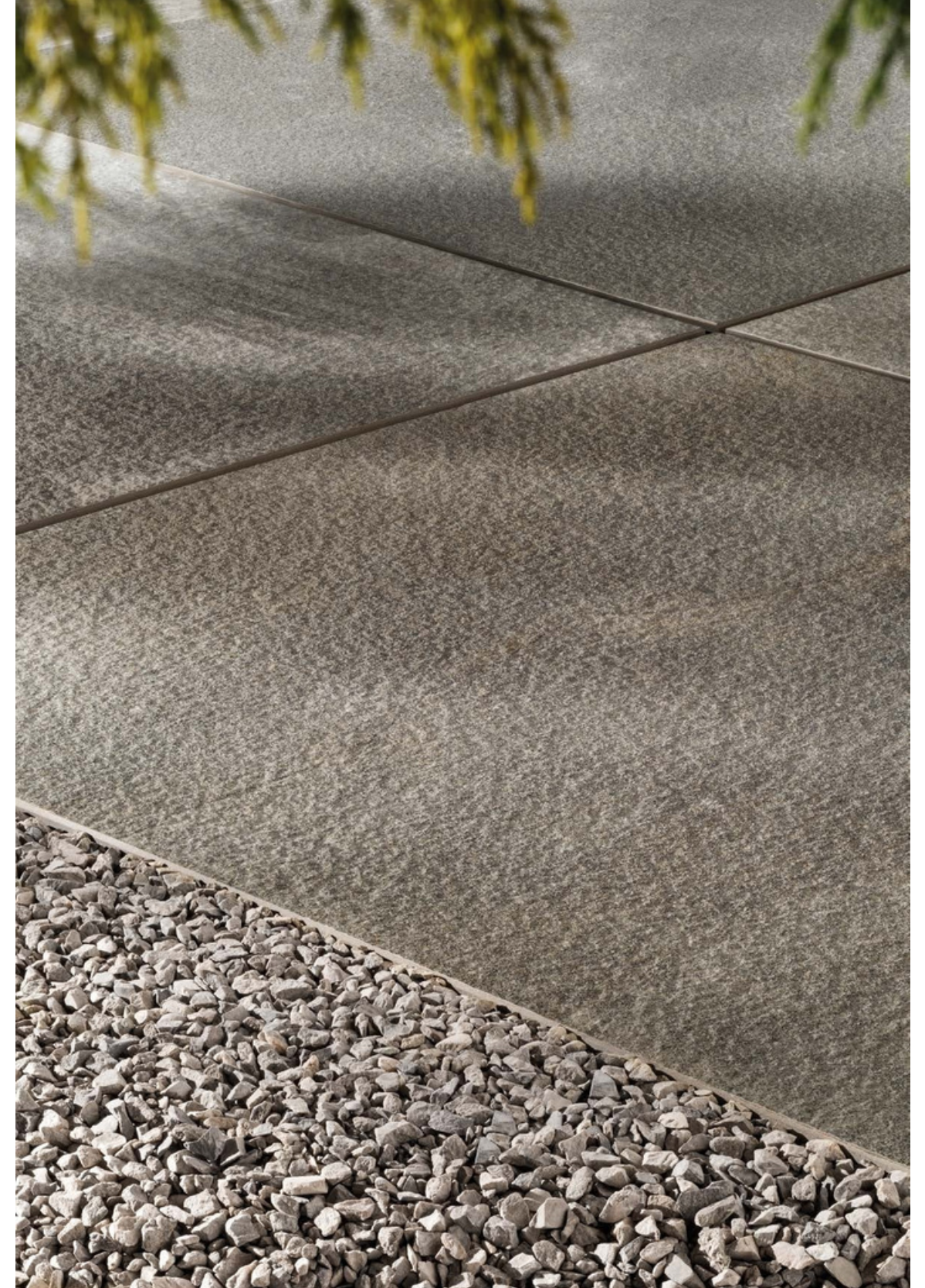
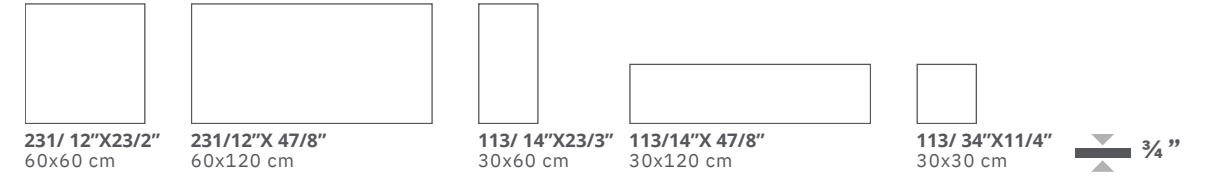
DRIVEWAYS



Full Color Cleft Pattern



TrueBlue Thermal Pattern



n°12

n°13

PENNSYLVANIA the new



Indoor: TrueBlue Thermal Pattern
231/1" x 2312/2" - 60x60 cm
113/1" x 2314/2" - 30x60 cm
113/1" x 1134/4" - 30x30 cm
Outdoor: Full Color Cleft Pattern
231/1" x 4712/8" - 60x120 cm



Indoor: TrueBlue Thermal Pattern
231/1" x 2312/2" - 60x60 cm
113/1" x 2314/2" - 30x60 cm
113/1" x 1134/4" - 30x30 cm
Outdoor: Full Color Cleft Pattern
231/1" x 2312/2" - 60x60 cm



TrueBlue Thermal Pattern
231/8" x 2312/2" - 60x60 cm
113/8" x 2314/2" - 30x60 cm
113/8" x 1134/4" - 30x30 cm





Full Color Cleft Pattern
231/x 2312"/2" - 60x60 cm
113/x 2314/2" - 30x60 cm
113/x 1134/4" - 30x30 cm



Full Color Cleft Pattern
231/12"x 23/2" - 60x60 cm
113/14"x 23/2" - 30x60 cm
113/1"x 113/4" - 30x30 cm



TrueBlue Thermal Pattern
231/ 2312"x/2" - 60x60 cm
113/"x 2314/2" - 30x60 cm
Full Bullhose Coping
113/14"x 23/2" - 30x60 cm



TrueBlue Thermal Pattern
 231/12" x 23 1/2" - 60x60 cm
 113/14" x 23 1/2" - 30x60 cm
 113/14" x 11 3/4" - 30x30 cm

 3/4" THICKNESS

PENNSYLVANIA

the new bluestone

AN ITALIAN PORCELAIN PAVER MADE IN USA

**FULL COLOR CLEFT PATTERN
 TRUEBLUE THERMAL PATTERN**



231/12" x 47 7/8" rectified
 60x120 cm



231/12" x 23 1/2" rectified
 60x60 cm



113/14" x 23 1/2" rectified
 30x60 cm



113/14" x 47 7/8" rectified
 30x120 cm



113/34" x 11 1/4" rectified
 30x30 cm

Full Color Cleft Pattern



23 1/2" X 47 7/8" rectified
60x120 cm



23 1/2" X 23 1/2" rectified
60x60 cm



11 3/4" X 23 1/2" rectified
30x60 cm



11 3/4" X 47 7/8" rectified
30x120 cm



11 3/4" X 11 1/4" rectified
30x30 cm



TrueBlue Thermal Pattern



231/ 12"X47/8"
rectified 60x120 cm



231/12"X 23/2"
rectified 60x60 cm



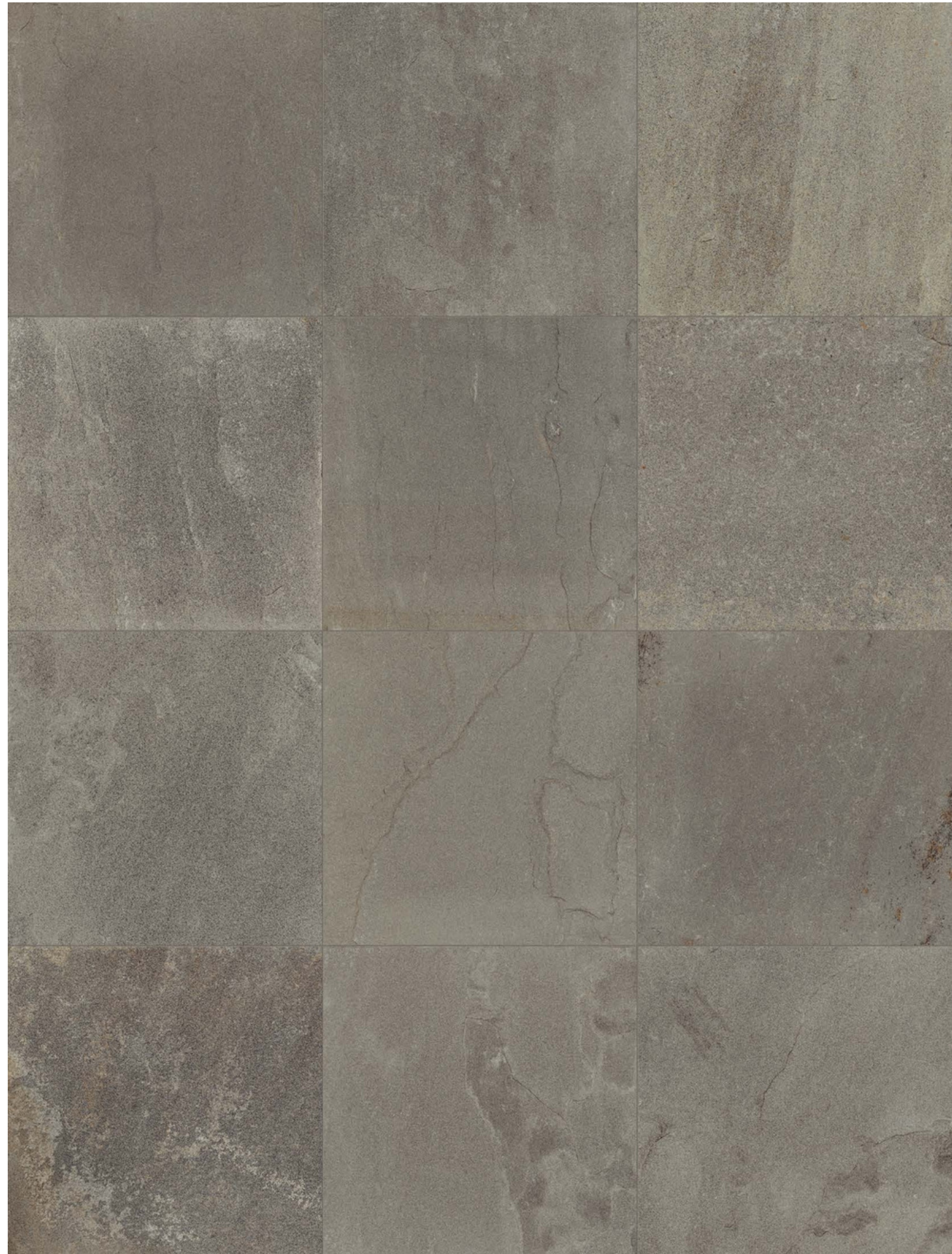
113/14"X 23/2"
rectified 30x60 cm



113/ 14"X47/8"
rectified 30x120 cm



113/34"X 11/4"
rectified 30x30 cm



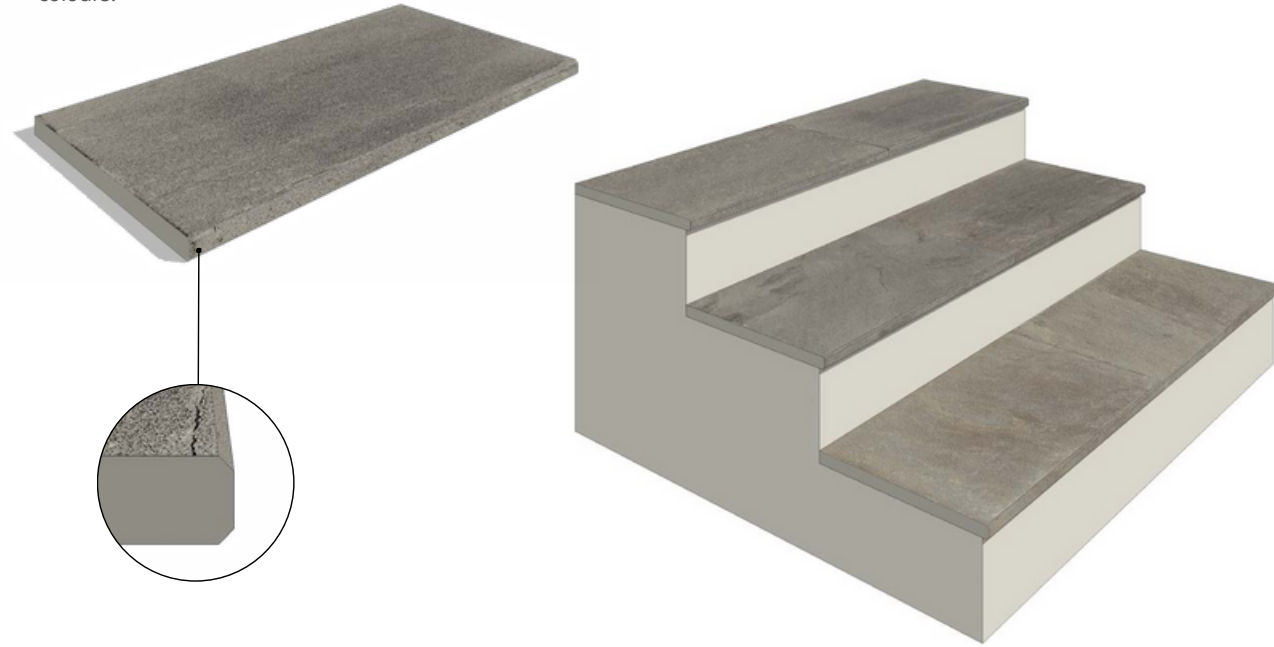
n°30

3/4" THICKNESS

Special pieces

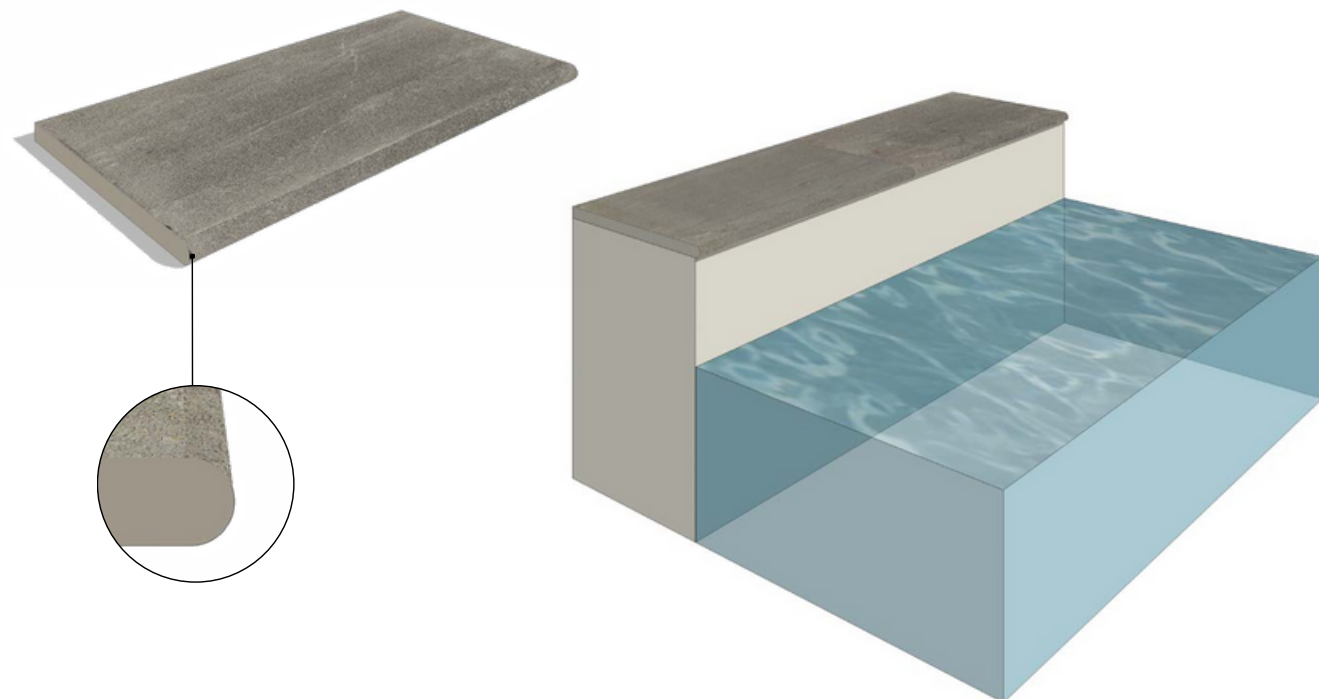
DOUBLE BEVEL COPING

11 3/4" x 23 1/2" - 30x60
Available in all colours.



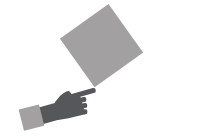
FULL BULLNOSE COPING

11 3/4" x 23 1/2" - 30x60
Available in all colours.



Advantages

n°31



LIGHTER AND EASIER TO HANDLE THAN CONCRETE BLOCKS



SUPERIOR IN FIRE RESISTANCE AND DURABILITY TO WOOD TILES



SUPERIOR IN STRENGTH AND IMPACT RESISTANCE TO CERAMIC TILES SUPPORTS OVER 2000LB



RESISTANT TO DAMAGE BY FROST, SNOW, ICE AND HEAT (-40°F - 210°F)



REMOVABLE AND REUSABLE



EASY TO CLEAN STAIN, CHEMICAL AND SALT RESISTANT



EASY TO INSTALL



SLIP RESISTANT AND QUICK DRAINING



THERMAL INSULATION (HOT/COLD)

Installation

INSTALLATION ON GRASS



ADHESIVE INSTALLATION ON FOOTING



RAISED INSTALLATION ON FLAT SURFACES



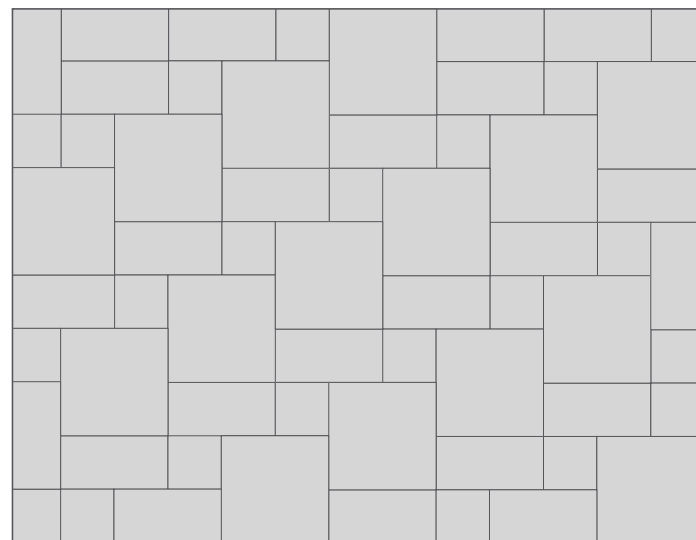
INSTALLATION ON GRAVEL



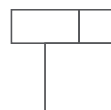
FLOATING INSTALLATION ON SPACER FEET



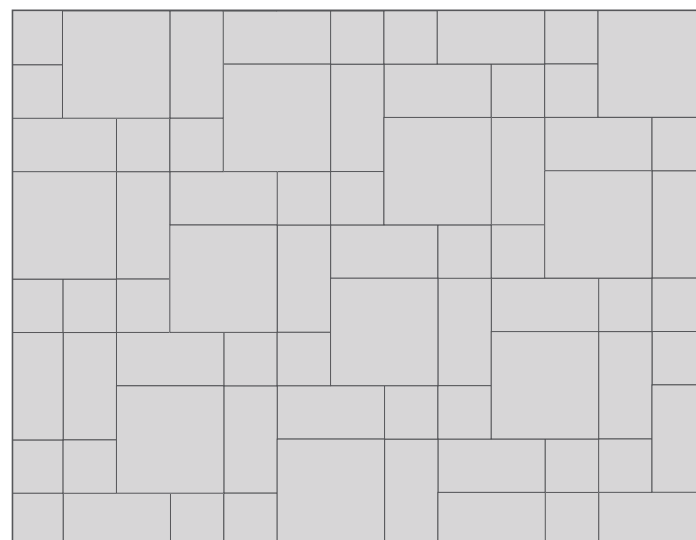
Patterns



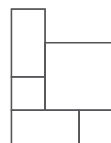
A layng solution



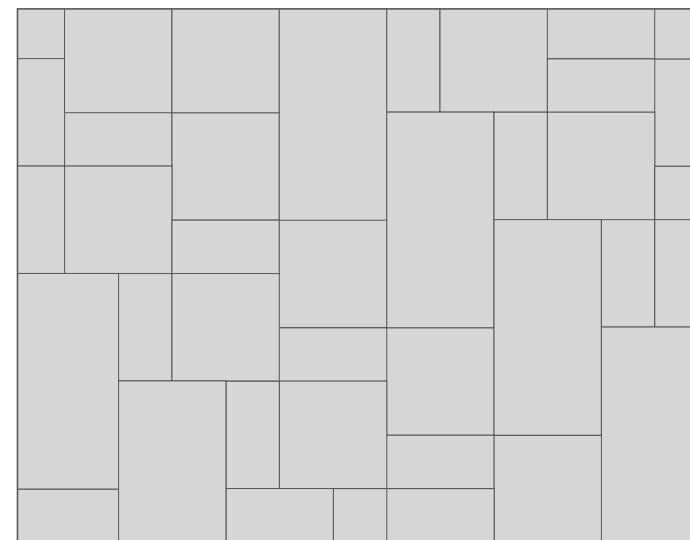
Nr.	1	231/" 2312X/2" - 60x60	57,2%
pcs	Nr.	cm 113/" 2314X/2" -	28,5%
1	pcs	30x60 cm 113/"	14,3%
Nr.	1	1134X/4" - 30x30 cm	
	pcs		



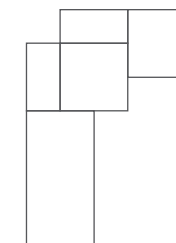
B layng solution



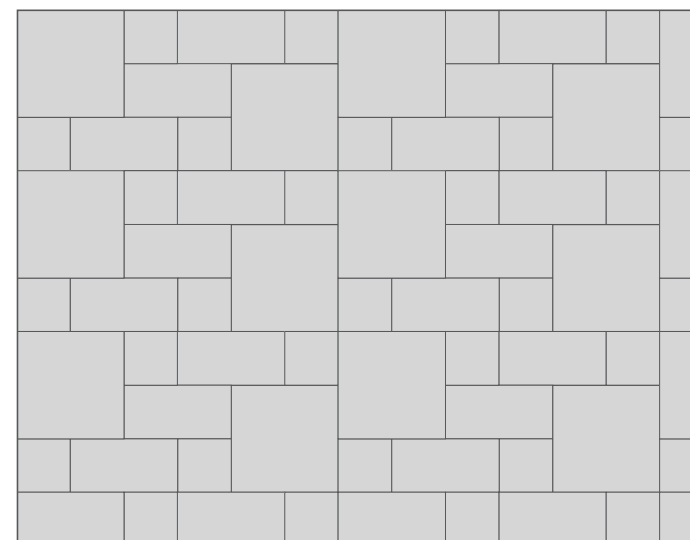
Nr.	1	231/" 2312X/2" - 60x60	40%
pcs	Nr.	cm 113/" 2314X/2" -	40%
2	pcs	30x60 cm 113/"	20%
Nr.	2	1134X/4" - 30x30 cm	
	pcs		



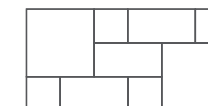
D layng solution



Nr.	1	231/" 4712X/8" - 60x120	40%
pcs	Nr.	cm 231/" 2312X/2" -	40%
2	pcs	60x60 cm 113/"	20%
Nr.	2	2314X/2" - 30x60 cm	
	pcs		



C layng solution



Nr.	2	231/" 2312X/2" - 60x60	44,5%
pcs	Nr.	cm 113/" 2314X/2" -	33,3%
3	pcs	30x60 cm 113/"	22,2%
Nr.	4	1134X/4" - 30x30 cm	
	pcs		

Summary of Technical data

PLUS vs MINUS		
Data:	KRONOS PENNSYLVANIA bluestone	NATURAL PENNSYLVANIA BLUESTONE
Water absorption	0,05%	1,6%
Resistance to stain	all	not guaranteed
Chemical Resistance	resistant	not guaranteed
Fade resistance on exposure to light and W rays	no fading or change in color	change in color
Surfaces fragility	it does not flake and does not crumble	it flakes and crumbles
Lenght and Width	Dimension proportions are guaranteed	Dimension proportions are not guaranteed
Uniformity of thickness	guaranteed	not guaranteed
Frost and salt resistance	guaranteed	not guaranteed
Slip resistance	guaranteed	not guaranteed
Installation on pedestals / Raised floor	guaranteed	not guaranteed
Average Weight	46 kg / sqm 9.38 lbs / sq.ft.	Real full color 160 kg / sqm 32.7 lbs / sq.ft. Real trueblue 110 kg / sqm 22.5 lbs / sq.ft.
Breaking Strenght / Flexural Strenght	3800 lbf	1900 lbf

PACKAGING

2.0 MONOLITHIC RECTIFIED CERAMIC TILE	Thickness	Unit / Box	SqFt / Box	Boxes / Pallet	SqFt / Pallet	Weight / Box	Weight / M2	Weight / SqFt	Weight / Pallet (included)	Pallet Size
231/2"x471	3/4"	2	15,5	1	24	149	100	9,3	2384	49"x
/8"	20mm 3/4"	4	15,5	6	8	lb	lb	lb	lb	49"
113/4"x471	- 20mm	2	7,75	1	24	153	100	9,3	2448	49"x
/8"	3/4"	4	7,75	6	8	lb 72	lb	lb	lb	49"
231/2"x231	20mm 3/4"	5	4,85	3	27	lb 72	100	9,3	2650	42"x
/2"	- 20mm			6	9	lb 45	lb	lb	lb	42"
113/4"x231	3/4"	-		4	31	lb	100	9,3	2955	42"x42"
/2"	20mm			0	0	lb	lb	lb	lb	42"x42"
113/4"x113/4"				4	21	100	9,3	9,3	lb	
				5	8	lb	lb	lb	lb	

TECHNICAL CHARACTERISTICS

STANDARS	CHARACTERISTICS OR PROPERTIES	COMPLIANCE WITH STANDARDS UNI EN 14411 G ASTM	DECLARED VALUE
ISO - 10545-3 ASTM - C 373-88	Water absorption	E <= 0.5 %	< 0.1 %
ISO - 10545-9 ASTM - C 484	Thermal shock resistance	Requested	Complies with standard
ISO - 10545-12 ASTM - C 1037	Fracture toughness	Requested	Complies with standard
ISO - 10545-6 ASTM C 1249	Abrasive wear < 475 mm ² 2139 mm ²	< 475 mm ²	< 475 mm ²
ISO - 10545-2 ASTM - C 485	Straightness < +/- 0.75 % (+/- 1.8 mm)	< +/- 0.75 % (+/- 1.8 mm)	Complies with standard
ISO - 10545-2	Straightness / ISO - 10545-2 +/- 0.5 % (+/- 1.5 mm)	< +/- 0.5 % (+/- 1.5 mm)	Complies with standard
ISO - 10545-2	Thickness / ASTM - C 499 +/- 1.02 mm	< +/- 1.02 mm	Complies with standard
ISO - 10545-2	Thickness / ISO - 10545-2 +/- 0.5 % (+/- 0.5 mm)	< +/- 0.5 % (+/- 0.5 mm)	Complies with standard
ISO - 10545-2	Length and width / ASTM - C 499 +/- 0.5 % (+/- 2.0 mm)	< +/- 0.5 % (+/- 2.0 mm)	Complies with standard
ISO - 10545-2	Length and width / ISO - 10545-2 +/- 0.6 % (+/- 2.0 mm)	< +/- 0.6 % (+/- 2.0 mm)	Complies with standard
ISO - 10545-4	Bending strength ASTM - C 648 ANSI A 137.1 > = 275 LBF Average > = 2500 LBF in N (thickness > = 7.5 mm) (PORCELAIN TILE) > = 250 LBF Individual	> = 275 LBF Average > = 2500 LBF in N (thickness > = 7.5 mm) (PORCELAIN TILE) > = 250 LBF Individual	> = 275 LBF Average > = 2500 LBF in N (thickness > = 7.5 mm) (PORCELAIN TILE) > = 250 LBF Individual
ISO - 10545-4	ISO - 10545-4 > = 1300 Newton > 13000	> = 1300 Newton > 13000	> = 1300 Newton > 13000
ASTM - C 650	Chemical resistance As reported	Resistant	Resistant
ISO	10545-14 Resistance to stain-5	5	5
ISO	10545-13 Chemical resistance UB min. UA ULA UHA	UB min. UA ULA UHA	UB min. UA ULA UHA
ISO	10545-8 Coefficient of linear thermal-expansion-α=6.3x10 ⁻⁶ °C ⁻¹	α=6.3x10 ⁻⁶ °C ⁻¹	α=6.3x10 ⁻⁶ °C ⁻¹
ISO	Impact resistance-0.88	0.88	0.88
EN	Centre 9.6 Kn	9.6 Kn	9.6 Kn
EN	12825 Static load-Centre point of sides 6.5 Kn	6.5 Kn	6.5 Kn
EN	Diagonal 8.19 Kn (CLASSE 3)	8.19 Kn (CLASSE 3)	8.19 Kn (CLASSE 3)
EN	Dymanic laod capacity - hand object impact test-Test not passed	Test not passed	Test not passed
EN	Dymanic laod capacity - soft object impact test-Test passed	Test passed	Test passed
EN	1339 Bendind strength - breaking force in NKn 14.38 classe 14	14.38 classe 14	14.38 classe 14
ENV	12633 Slip resistance > / = CL1CL 2	> / = CL1CL 2	> / = CL1CL 2
DIN	Slip resistance-R11	R11	R11
DIN	Slip resistance-A + B + C min.	A + B + C min.	A + B + C min.
DM	236/89	236/89	236/89
B.C.R.A.	Slip resistance-> 0.40	> 0.40	> 0.40
ASTM 1028-07 BOT 3000	Static coefficient of friction > 0.60 WET > 0.60 DRY	> 0.60 WET > 0.60 DRY	> 0.60 WET > 0.60 DRY
EN	Dynamic coefficient of friction Slip resistance - (sectio n 9.6 ANSIA 137.1 2012) > = 0.42	> = 0.42	> = 0.42
EN	13501-IFire resistance-A1 - AI FL	A1 - AI FL	A1 - AI FL
EN	* TAS 1083/4" thick 24"x24" porcelain installed on fixed FLORIDA BUILDING CODE height pedestals and 45° wind angle was blow -130 mph with no parapet WIND UP LIFT TEST of at 150 mpr with 12" high parapet	130 mph with no parapet WIND UP LIFT TEST of at 150 mpr with 12" high parapet	130 mph with no parapet WIND UP LIFT TEST of at 150 mpr with 12" high parapet

* To put this into context, the Saffir-Simpson Hurricane Wind Scale which is a 1 to 5 rating based on a hurricane's sustained wind speed, defines wind speeds over 74 mph to be hurricane velocity where:
 - Category 1 (74-95 mph) "Very dangeorus winds will produce some damage"
 - Category 2 (96-110 mph) "Extremely dangerous winds will cause extensive damage"
 - Category 3 (111-129 mph) "Devastating damage will occur"

In the wester North Pacific, the term "super typhoon" is used for tropical cyclones with sustained winds exceeding 150 mph.

specstones

www.specstonesinc.com

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