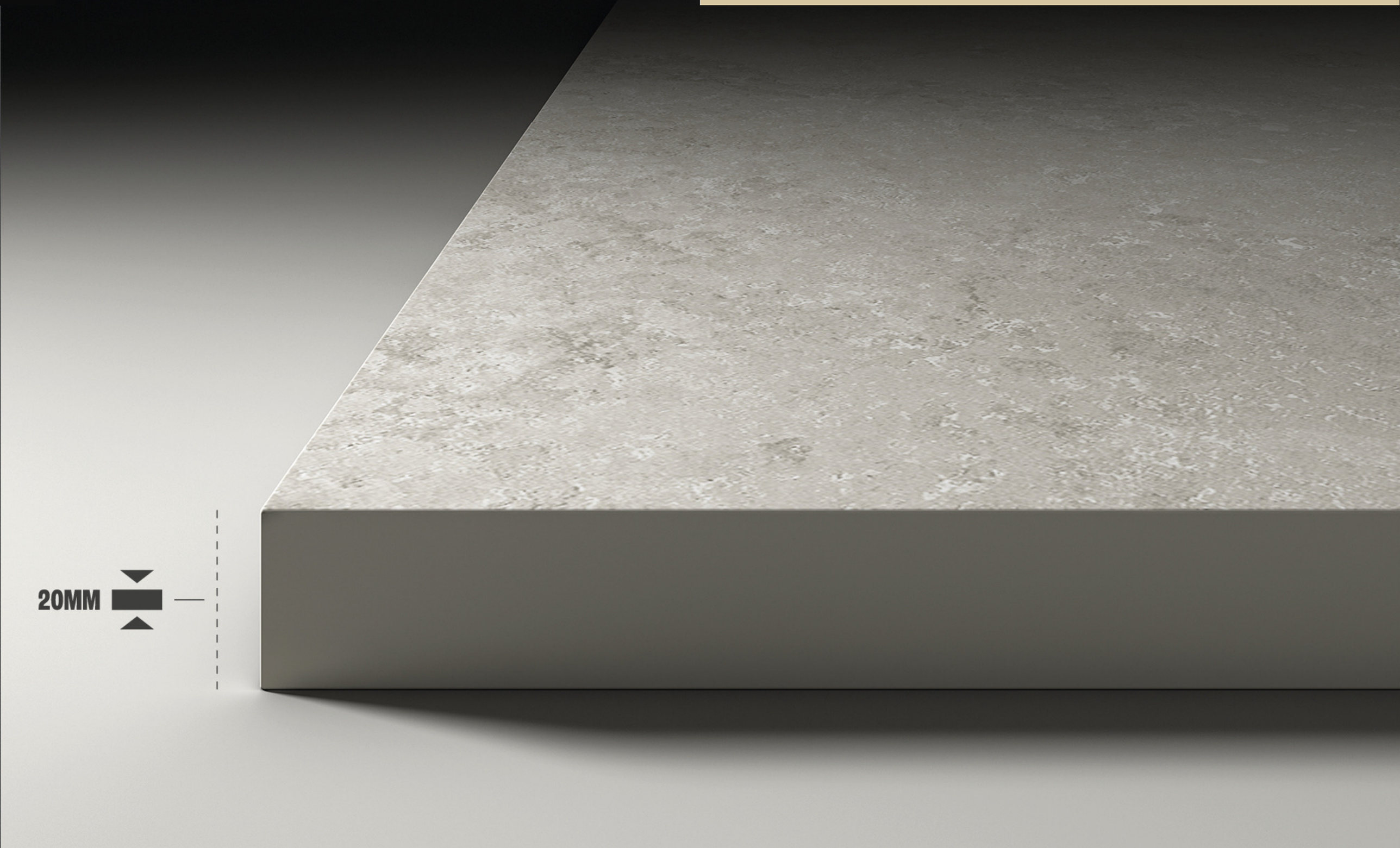
20MM OUTDOOR PORCELAIN TILES

GIRGRES

porcelain pavers

20 MM **OUTDOOR**
PORCELAIN PAVERS

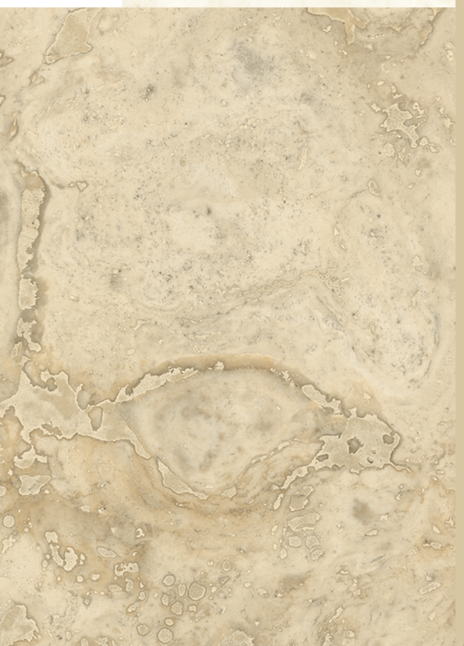
GIRGRES
porcelain pavers



The ideal solution for **outdoor living**







600x600 / 24”x24”

600x900 / 24”x36”



Travertine rapolano Gold 60x90 R11



Travertine
rapolano

Travertine rapolano Gold 60x90 R11

Travertine rapolano

20MM | FULL COLOURBODY | R11 SURFACE

Formats

600x600mm

600x900mm



Silver ⧗ 20mm



Cream ⧗ 20mm



Gold ⧗ 20mm



Travertine rapolano Silver 60x90 R11

County



County Lgy 60x90 R11

County

20MM | FULL COLOURBODY | R11 SURFACE

Formats

600x600mm

600x900mm



Lgy 20mm



Antrecite 20mm



County Lgy 60x90 R11



County Lgy 60x90 R11



County Lgy 60x90 R11

County Antrecite 60x60 R11

Hammerstone



Hammerstone Beige 60x90 R11

Hammerstone Grey 60x90 R11

Hammerstone Beige 60x90 R11

Hammerstone

20MM FULL COLOURBODY R11 SURFACE

Formats

600x600mm

600x900mm



Grey ⧗ 20mm



Beige ⧗ 20mm



Nero ⧗ 20mm





Hammerstone Grey 60x90 R11

Rockland



Rockland Beige 60x90 R11

Rockland

Formats

600x600mm

600x900mm

Beige 20mm

Beige			

Rockland Beige 60x90 R11



Royal Carrara 60x90 R11



Royal Carrara

Royal Carrara

20MM | FULL COLOURBODY | R11 SURFACE

Formats

600x600mm

600x900mm

Royal Carrrara 20mm

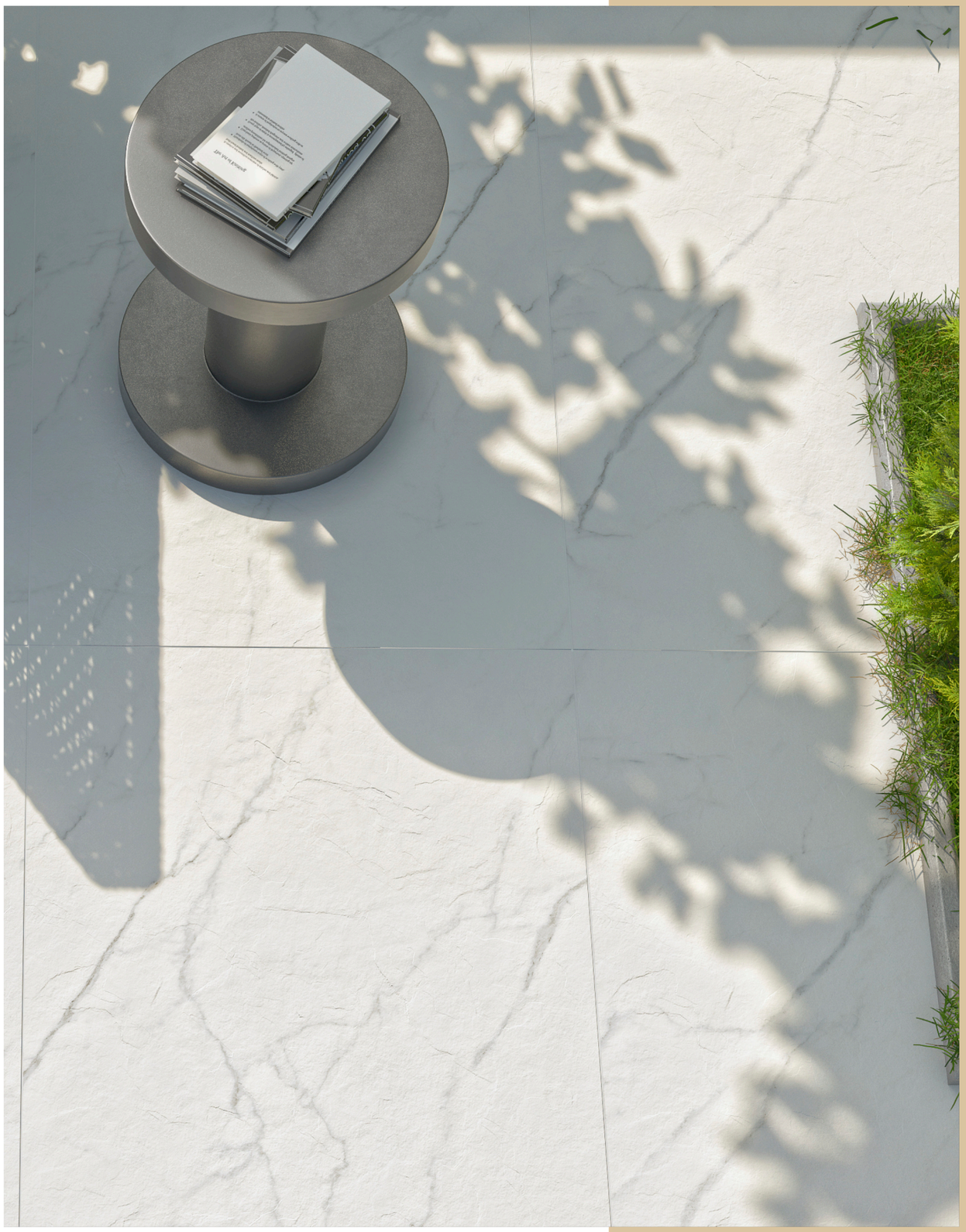


Royal Carrara 60x90 R11

Statuario Nevo Extra



Statuario Nevo Extra 60x90 R11



Statuario Nevo Extra

Formats

600x600mm

600x900mm

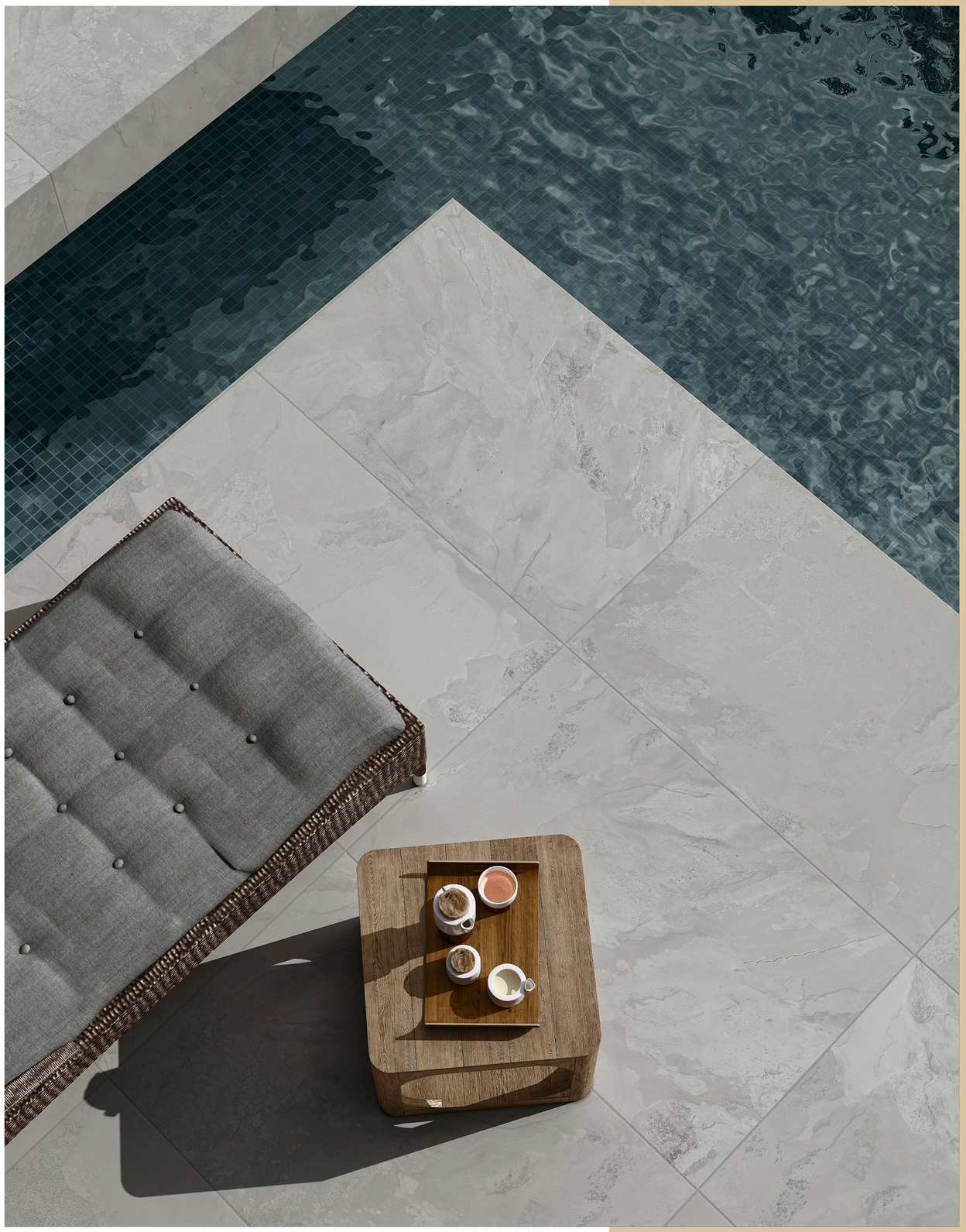
Statuario Nevo Extra ⧗ 20mm

Statuario Nevo Extra

Statuario Nevo Extra 60x90 R11



Slatestone Steel 60x90 R11



Slatestone

Slatestone

Formats

600x600mm

600x900mm



Steel 20mm

Steel

Slatestone Steel 60x90 R11





Viatam Gold

Viatam Gold

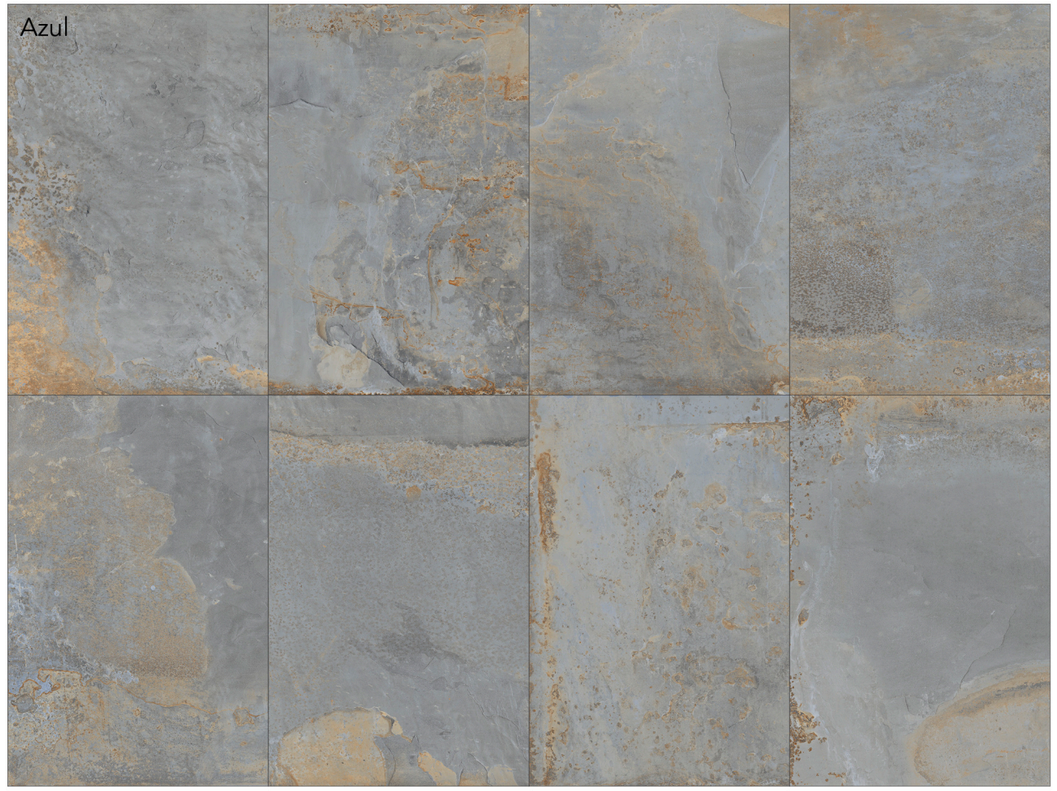
20MM FULL COLOURBODY R11 SURFACE

Formats

600x600mm 600x900mm



Azul 20mm





Vivata Ceppo



Vivata Ceppo Ivory 60x90 R11



Vivata Ceppo

20MM | FULL COLOUR BODY | R11 SURFACE

Formats

600x600mm

600x900mm



Light Grey ⧗ 20mm



Ivory ⧗ 20mm





Vivata Ceppo Ivory 60x90 R11

Technical **Details**

Sr. No:	TEST CONDUCTED	TEST RESULT	TEST REQUIREMENTS AS PER IS 15622 : 2006	REMARK
1	Water absorption (% by mass)	Average : 0.17	-	Based on the results of water absorption the tested pavers conformed to Gr. B Ib (0.08% ≤ 3%) of IS 15622 : 2006, Further test results were delivered as per requirements of Gr. B Ib
2	Modulus Of Rupture (MOR) N/mm² Span Length = 580 mm Average thickness of the pavers measured = 19.81 mm	Average : 39.0 N/MM²	(Gr. B la) Average 38 N/mm² Individual 35 N/mm² Minimum	Passed the test
3	Breaking Strength (N) Span Length = 580 mm Average thickness of the pavers measured = 19.81 mm	Average : 8090.0 N	(Gr. B la) For thickness > 7.5 mm 1200 N minimum	Passed the test
4	Scratch Hardness Surface (Mohs' scale)	No. 7	(Gr. B la) For commercial application 6 minimum, Home application 5 minimum	Passed the test
5	Thermal Shock Resistance	None of the pavers as tested showed any defects on surface at the end of the 10th cycle.	(Gr. B la) Pavers specimens should not show any visible defect when subjected to thermal shock resistance test as per test method IS 13630 : 2006 (Part 5) with immersion	Passed the test
6	Bulk Density (gm/cc)	Average : 2.302	IS 13630 (Part 2) : 2006	
7	Co-effcient of Thermal Expansion from ambient Temperature to 100oC	L = 4.4956 (106 K¹) B = 4.6883 (106 K¹)	-	Passed the test
8	Straightness of Sides (facial sides) The maximum deviation from straightness in percent related to the corresponding work sizes	± 0.05 % (Max) ± 0.08 % (Max)	(Gr. B la) S > 410 cm² ± 0.1 %	Passed the test
9	Rectagularity The maximum deviation from straightness in percent related to the corresponding work sizes	± 0.10 % (Max) ± 0.10 % (Max)	± 0.1 %	Passed the test
10	Surface Flatness The maximum deviation from fatness in percent (a) Centre of curvature related to diagonal calculated from work size. (b) Edge of curvature related to the corresponding work size (c) Warpage related to the diagonal calculated from the Work Size	 ± 0.17 % (Max) + 0.10 % (Max) ± 0.14 % (Max) ± 0.09 % (Max) ± 0.06 % (Max)	 ± 0.2 % ± 0.2 % ± 0.2 %	 Passed the test Passed the test Passed the test
11	Chemical resistance Five test specimens were treated with following solns. (a) Centre of curvature related to diagonal calculated from work size. (b) Edge of curvature related to the corresponding work size (c) Warpage related to the diagonal calculated from the Work Size Five test specimens were treated with following solns. **1. Household Chemicals** a) Ammonium Chloride soln. (100 gm/l) b) Standard cleaning Agent soln., (as per procedure) **2. Swimming pool salts** a) Sodium Hypochlorite Soln. (20 mg / l) b) Copper Sulphate Soln. (20 mg / l) **3. Acids** a) Hydrochloric acid Soln. 3 % (v/v) b) Citric acid Soln. (200 mg / l) **4. Alkali** Potassium hydroxide soln., (200 mg / l)	 ± 0.17 % (Max) ± 0.10 % (Max) ± 0.14 % (Max) ± 0.09 % (Max) ± 0.06 % (Max) No visual changes observed after immersion for 6 hrs., pencil lines removed with soft dry cloth. No visual changes observed after immersion for 6 hrs., pencil lines removed with soft dry cloth. No visual changes observed after immersion for 6 hrs., pencil lines removed with soft dry cloth. No visual changes observed after immersion for 6 hrs., pencil lines removed with soft dry cloth. No visual changes observed after immersion for 6 hrs., pencil lines removed with soft dry cloth. No visual changes observed after immersion for 6 hrs., pencil lines removed with soft dry cloth. No visual changes observed after immersion for 6 hrs., pencil lines removed with soft dry cloth.	 ± 0.2 % ± 0.2 % ± 0.2 % " Class - AA " min. " Class - AA " min. " Class - AA " min. " Class - AA " min.	 Passed the test Passed the test Passed the test Conformed to "Class-AA" Conformed to "Class-AA" Conformed to "Class-AA" Conformed to "Class-AA" Conformed to "Class-AA" Conformed to "Class-AA" Conformed to "Class-AA" Conformed to "Class-AA"
12	Skid Resistance / Surface Slip Resistance (a) Condi Tile Surface was cleaned thoroughly be wet cloth followed by dry cloth and ensured that the surface is completely clean and dryt the b) Direction of Test 1) Parallel to sides (4 Measurements) 2) Diagonal to sides (4 Measurements)	 Coeffcient of friction μ 1) 0.83 2) 0.78 3) 0.77 4) 0.79 5) 0.76 6) 0.75 7) 0.76 8) 0.76	As per ISO 10545 Part - 17	-
13	Moisture expansion in(mm / mtr.)	0.00	-	Passed the test
14	Skid Resistance/ Surface Slip Resistance BS EN Standard specifcation EN:14411 :2016 (Group Bla)		R-11	R-11

PACKING DETAILS (OUTDOOR)

SIZE	WEIGHT / BOX (KG)	PCS / BOX	BOXES / PALLATE	PALLATE / CTN	BOXES / CTN	MT2 / BOX	MT2 / PALLATE	MT2 / CTN	WEIGHT / CTN (KG)
600X900mm (20mm)	23.75	1	42	27	1134	0.54	22.68	612.36	27750
600x600mm (20mm)	32	2	32	26	832	0.72	23.04	599.04	27404

PACKING DETAILS (PATIOPACK)

SIZE	PCS/ CRAT	MT2/ PCS	MT2/ CRAT (EACH SIZE)	IN KGS / CRAT	CRAT / CTN	MT2/ CTN	WEIGHT / CTN (Kg)
600X900mm(20mm)	18	0.54	9.72	423.00	29	610.74	27282
600x600mm (20mm)	18	0.36	6.48	270.00			

BOX DESIGN	STANDARD SAFEDA PALLATE
 600x600mm	 1193.80x749.30mm
 600x900mm	 1003.30x749.30mm

GIRGRES

porcelain pavers

girgres.com