

20MM 
OUTDOOR
PORCELAIN TILES

GIRGRES
porcelain pavers

**20 MM OUTDOOR
PORCELAIN PAVERS**

GIRGRES
porcelain pavers

20MM



The ideal solution for outdoor living

600x600 / 24"x24"



600x900 / 24"x36"



Travertine rapolano

Travertine rapolano Gold 60x90 R11





Travertine rapolano Gold 60x90 R11

Travertine rapolano



Formats



600x600mm



600x900mm



Silver

20mm



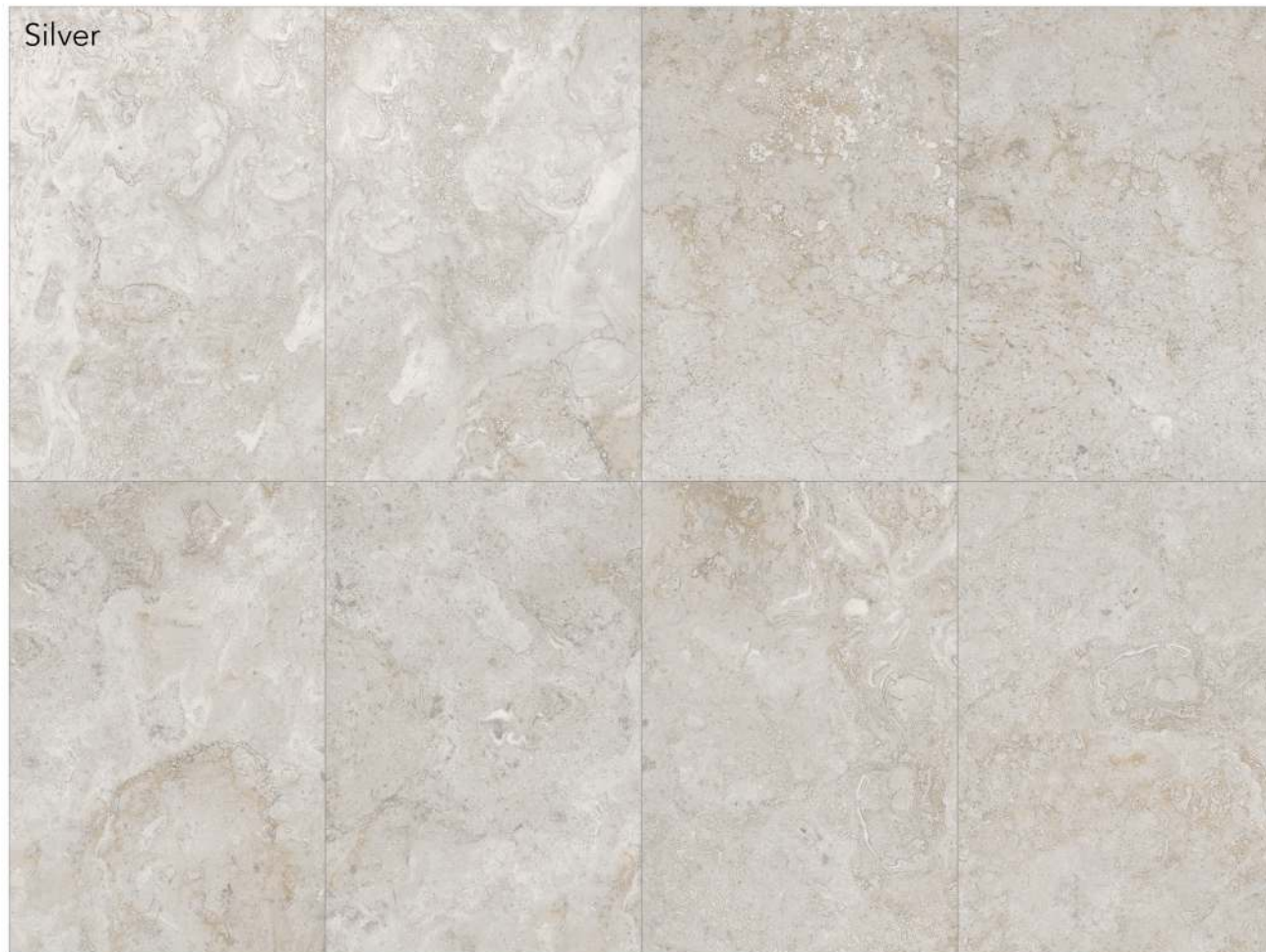
Cream

20mm



Gold

20mm



Silver



Travertine rapolano Silver 60x90 R11

County

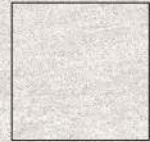
County Lgy 60x90 R11



County



Formats



600x600mm



600x900mm



Lgy 20mm



Antrecite 20mm



Lgy



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

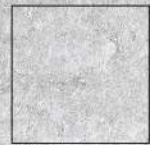


Hammerstone Beige 60x90 R11

Hammerstone



Formats



600x600mm



600x900mm



Grey 20mm



Beige 20mm



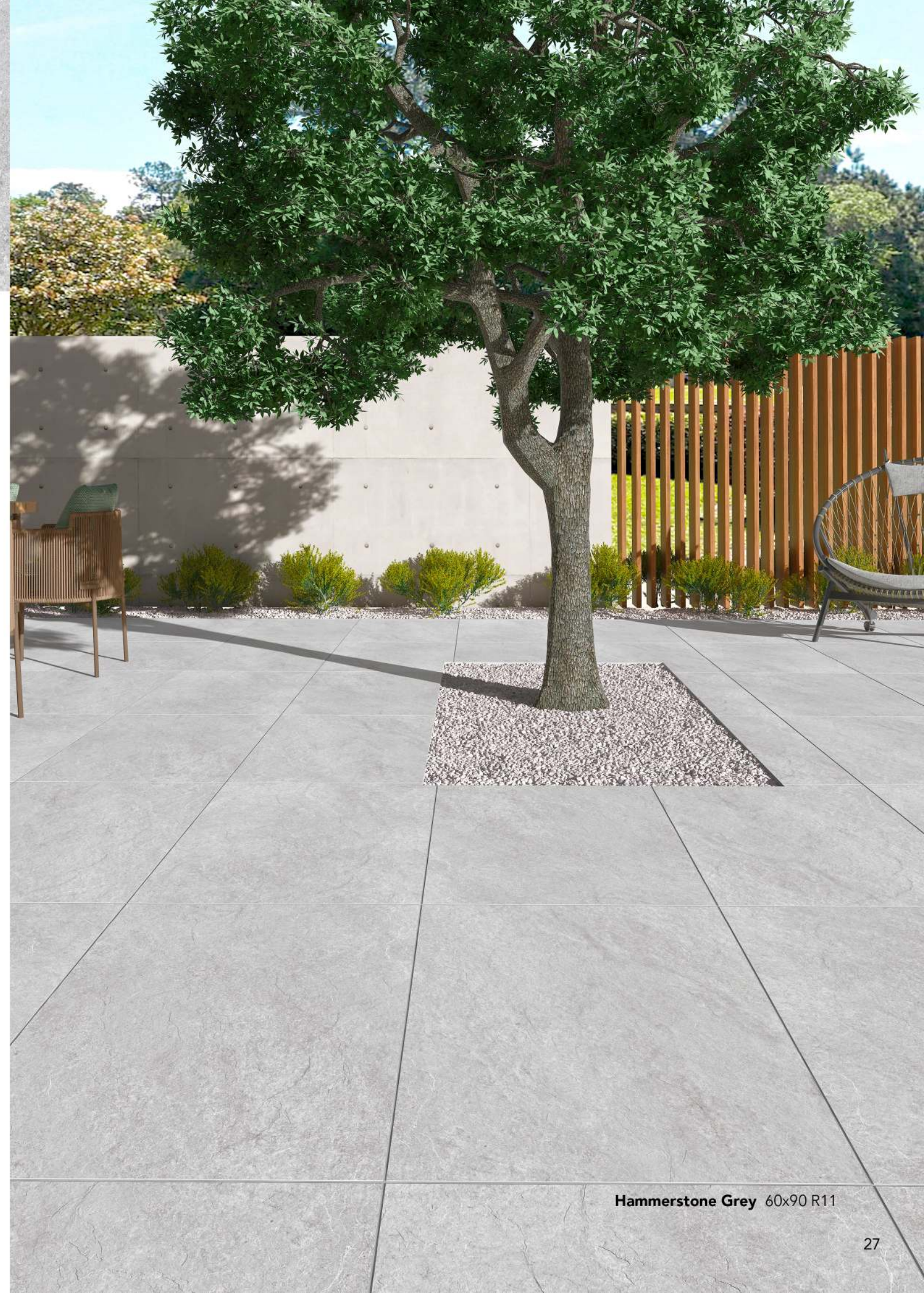
Nero 20mm



Grey



Beige



Hammerstone Grey 60x90 R11

Rockland

Rockland Beige 60x90 R11



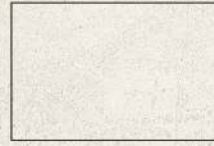
Rockland



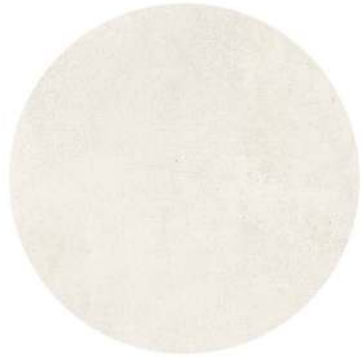
Formats



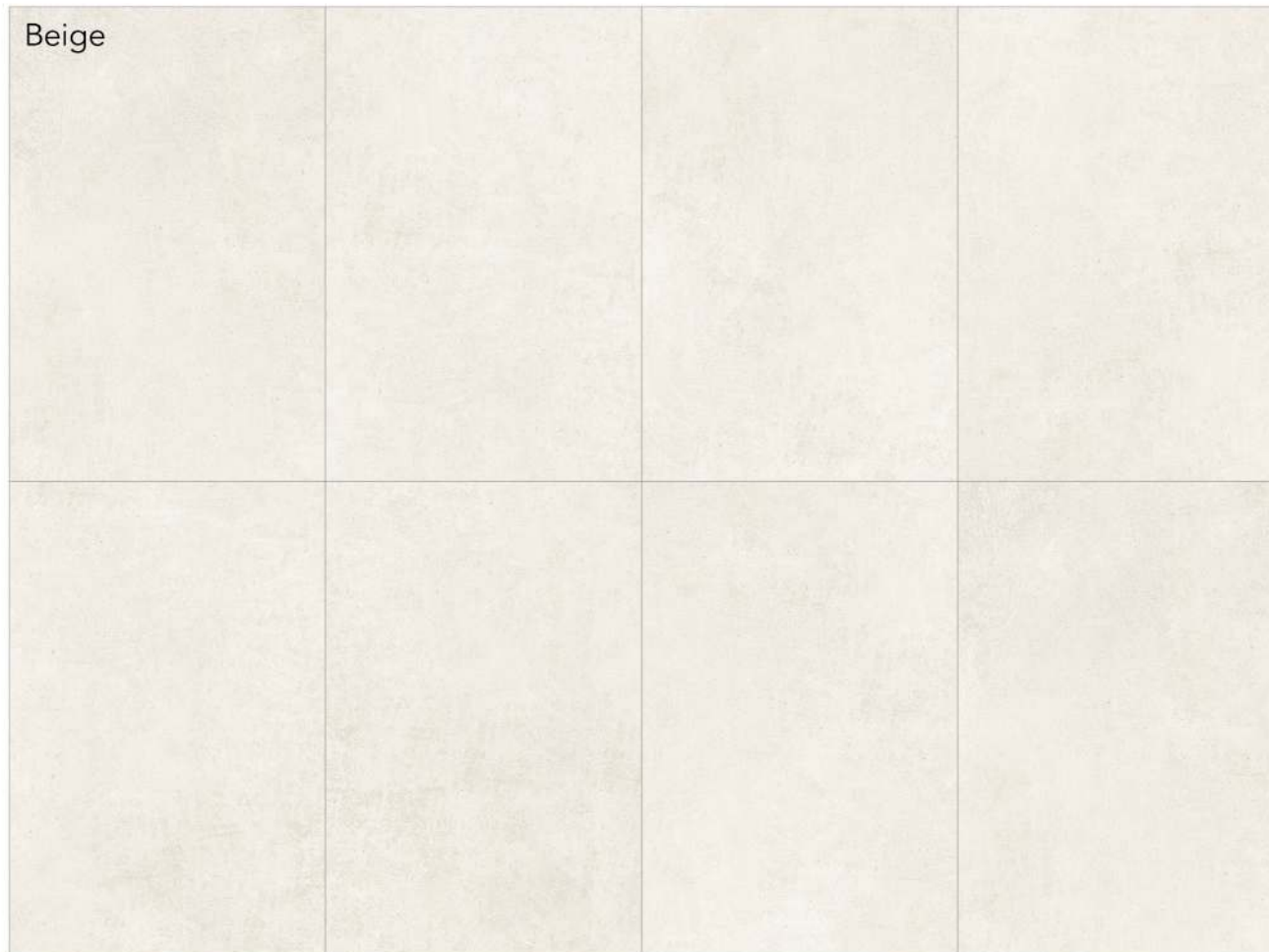
600x600mm



600x900mm



Beige  20mm



Rockland Beige 60x90 R11

Royal Carrara

Royal Carrara 60x90 R11



Royal Carrara



Formats



600x600mm



600x900mm



Royal Carrara 20mm



Royal Carrara



Royal Carrara 60x90 R11

Statuario Nevo Extra

Statuario Nevo Extra 60x90 R11



Statuario Nevo Extra



Formats



600x600mm



600x900mm



Statuario Nevo Extra 20mm

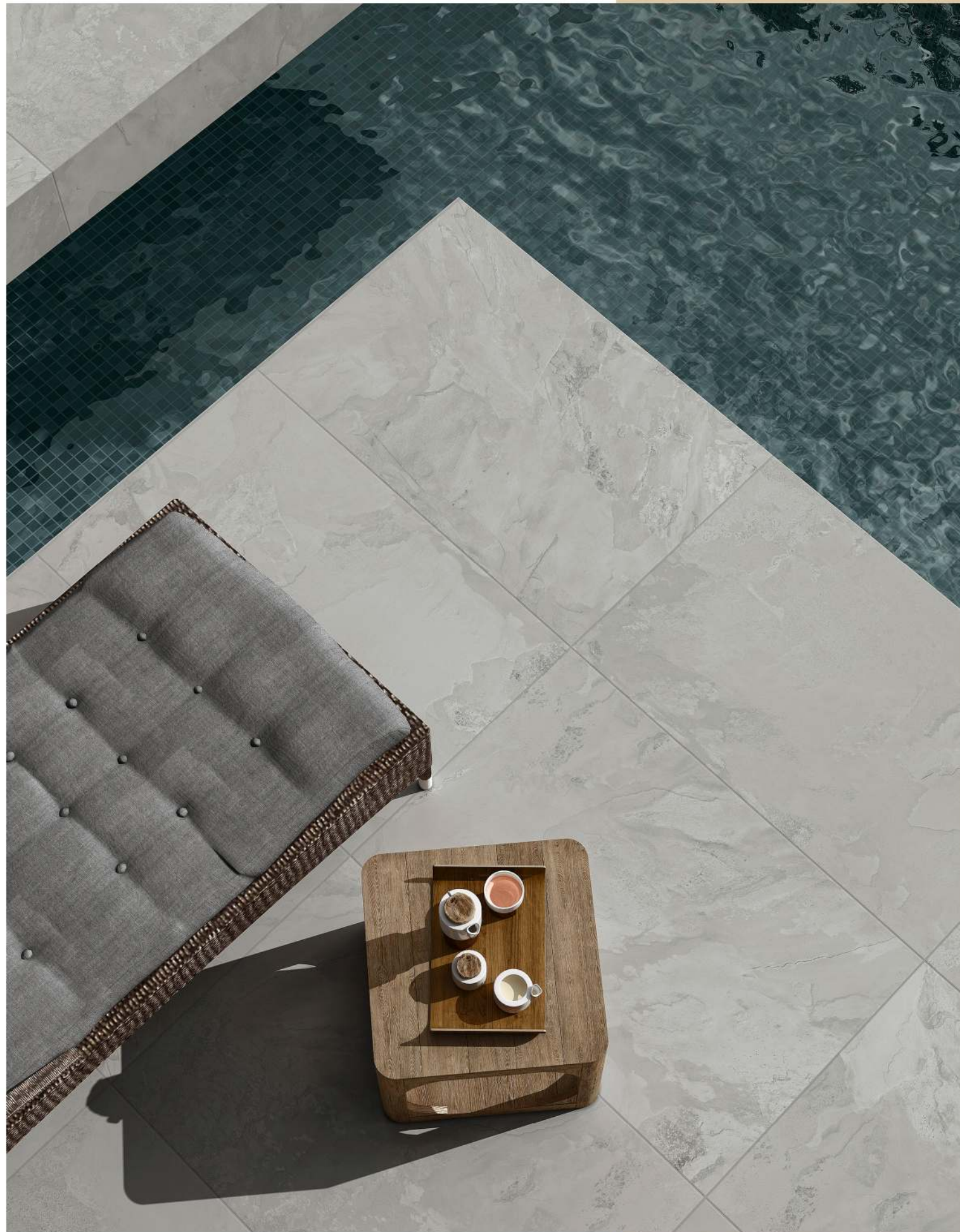
Statuario Nevo Extra



Statuario Nevo Extra 60x90 R11

Slatestone

Slatestone Steel 60x90 R11



Slatestone



Formats



600x600mm



600x900mm

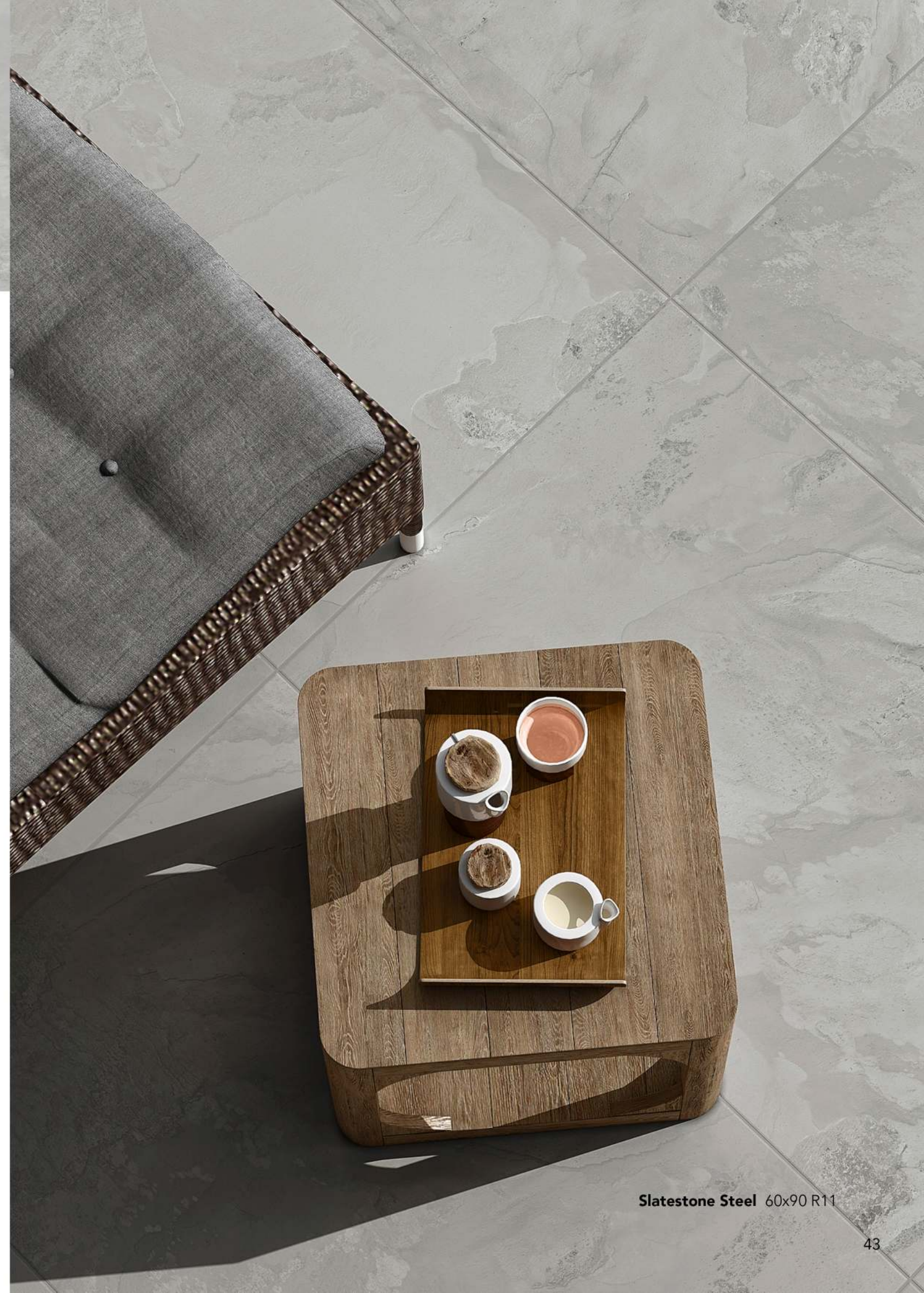


Steel

20mm

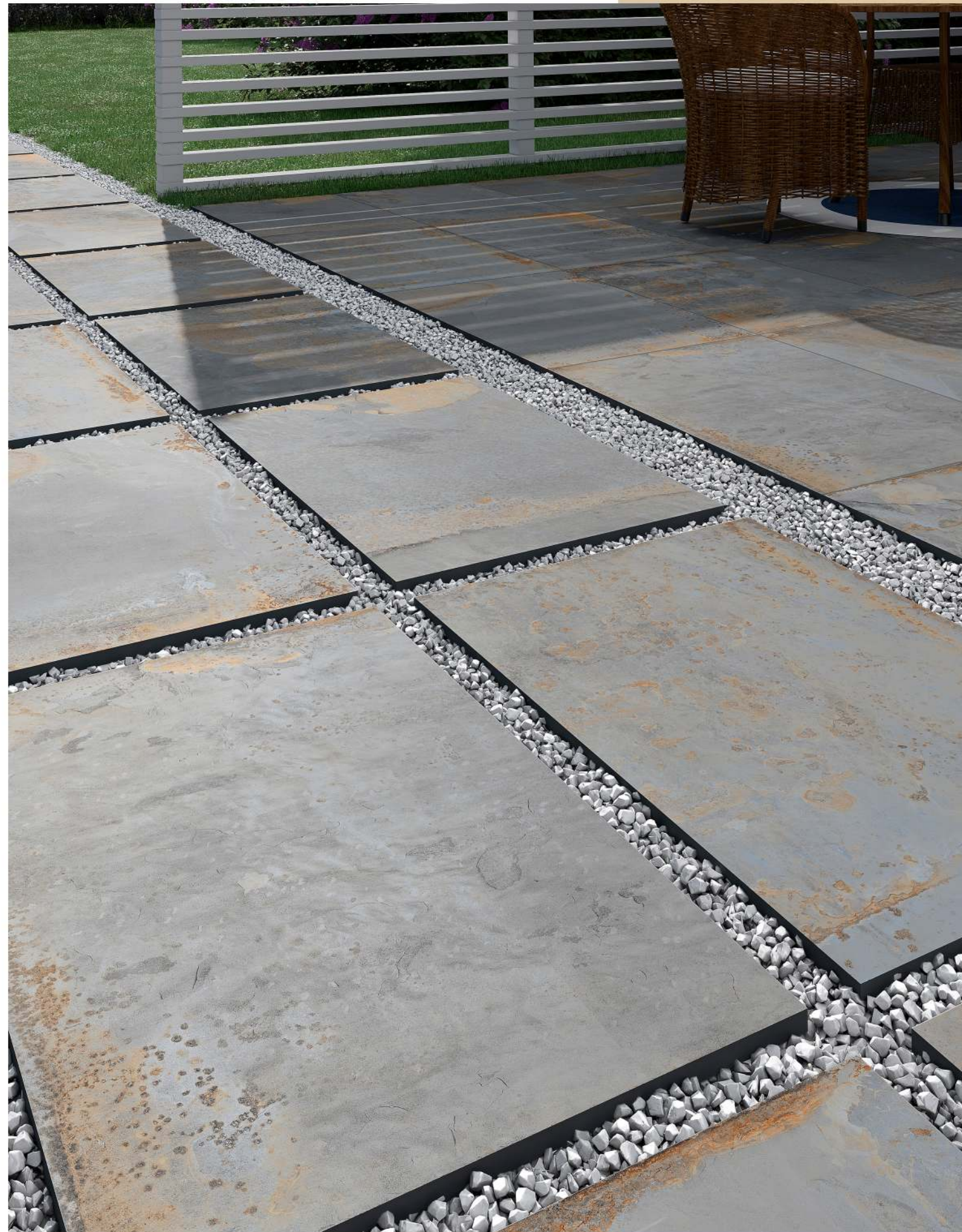


Steel



Slatestone Steel 60x90 R11

Viataam Gold



Viatam Gold



Formats



600x600mm



600x900mm

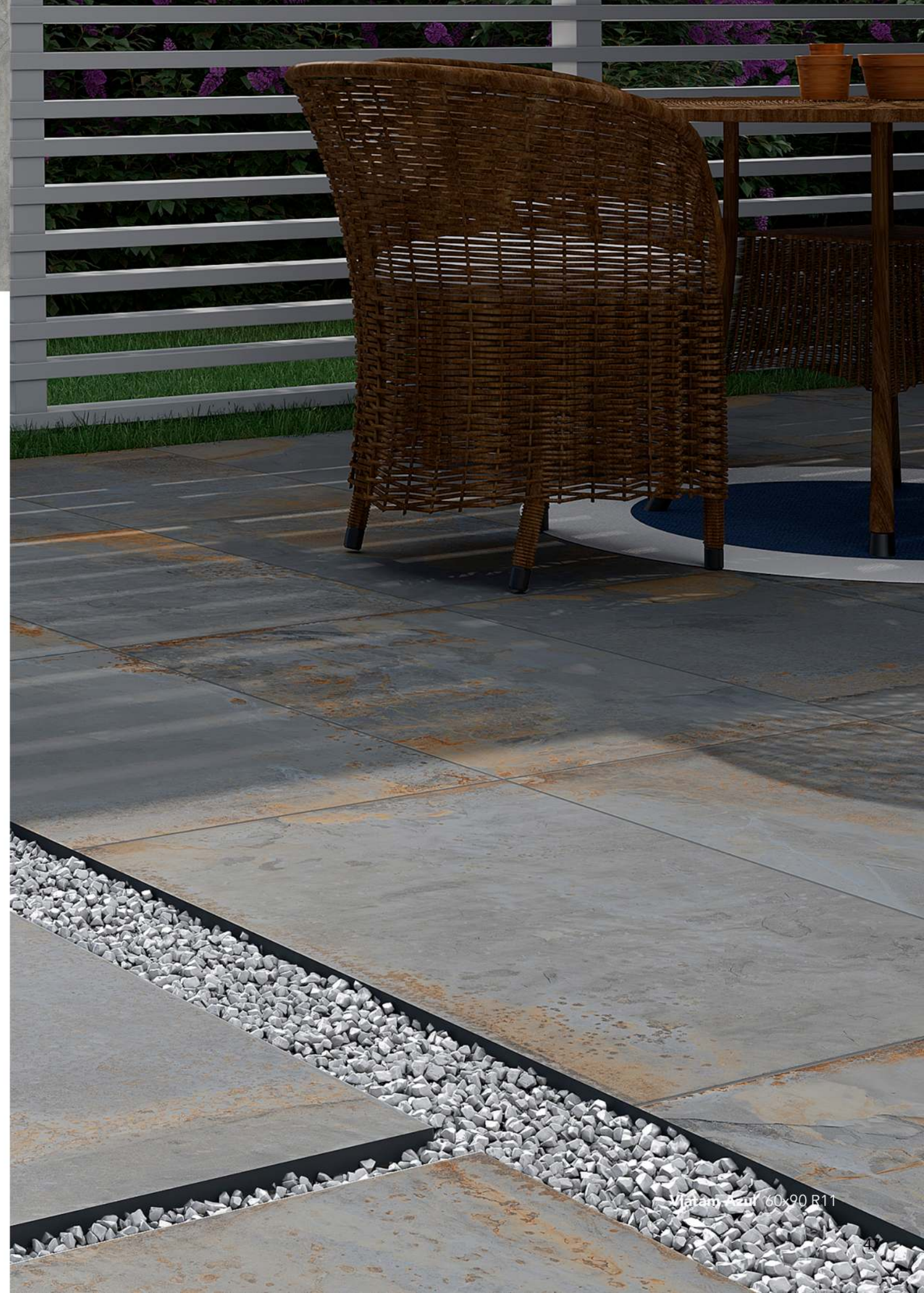


Azul

± 20mm



Azul



Viatam Azul 60x90 R11

Vivata Ceppo

Vivata Ceppo Ivory 60x90 R11



Vivata Ceppo



Formats



600x600mm



600x900mm



Light Grey 20mm



Ivory 20mm



Light Grey



Ivory



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 lb (0.08% ≤ 3%) of IS 15622 : 2006, Further test results were delivered as per requirements of Gr. B lb
2	Modulus Of Rupture (MOR) N/mm ² Span Length = 580 mm Average thickness of the pavers measured = 19.81 mm	Average : 39.0 N/MM ²	(Gr. B la) Average 38 N/mm ² Individual 35 N/mm ² 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-efficient of Thermal Expansion from ambient Temperature to 100oC	L = 4.4956 (106 K') B = 4.6883 (106 K')	-	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 cm ² ± 0.1 %	Passed the test
9	Rectangularity 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 flatness in percent			
	(a) Centre of curvature related to diagonal calculated from work size.	± 0.17 % (Max)	± 0.2 %	Passed the test
	(b) Edge of curvature related to the corresponding work size	+ 0.10 % (Max) ± 0.14 % (Max)	± 0.2 %	Passed the test
(c) Warpage related to the diagonal calculated from the Work Size	± 0.09 % (Max) ± 0.06 % (Max)	± 0.2 %	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.	± 0.17 % (Max)	± 0.2 %	Passed the test
	(b) Edge of curvature related to the corresponding work size	± 0.10 % (Max) ± 0.14 % (Max)	± 0.2 %	Passed the test
	(c) Warpage related to the diagonal calculated from the Work Size	± 0.09 % (Max) ± 0.06 % (Max)	± 0.2 %	Passed the test
	Five test specimens were treated with following solns.			
	1. Household Chemicals			
	a) Ammonium Chloride soln. (100 gm/l)	No visual changes observed after immersion for 6 hrs., pencil lines removed with soft dry cloth.	" Class - AA " min.	Conformed to "Class-AA"
	b) Standard cleaning Agent soln., (as per procedure)	No visual changes observed after immersion for 6 hrs., pencil lines removed with soft dry cloth.	" Class - AA " min.	Conformed to "Class-AA"
	2. Swimming pool salts			
a) Sodium Hypochlorite Soln. (20 mg / l)	No visual changes observed after immersion for 6 hrs., pencil lines removed with soft dry cloth.	" Class - AA " min.	Conformed to "Class-AA"	
b) Copper Sulphate Soln. (20 mg / l)	No visual changes observed after immersion for 6 hrs., pencil lines removed with soft dry cloth.	" Class - AA " min.	Conformed to "Class-AA"	
3. Acids				
a) Hydrochloric acid Soln. 3 % (v/v)	No visual changes observed after immersion for 6 hrs., pencil lines removed with soft dry cloth.		Conformed to "Class-AA"	
b) Citric acid Soln. (200 mg / l)	No visual changes observed after immersion for 6 hrs., pencil lines removed with soft dry cloth.		Conformed to "Class-AA"	
4. Alkali				
Potassium hydroxide soln., (200 mg / l)	No visual changes observed after immersion for 6 hrs., pencil lines removed with soft dry cloth.		Conformed to "Class-AA"	






12	Skid Resistance / Surface Slip Resistance (a) Condi Tile Surface was cleaned thoroughly by wet cloth followed by dry cloth and ensured that the surface is completely clean and dry the b) Direction of Test 1) Parallel to sides (4 Measurements) 2) Diagonal to sides (4 Measurements)	Coefficient 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 specification 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
 <p>OUTDOOR PORCELAIN TILES 600X600 MM</p> <p>20MM THICKNESS</p> <p>600x600mm</p>	 <p>1193.80x749.30mm</p>  <p>1003.30x749.30mm</p>
 <p>OUTDOOR PORCELAIN TILES 600X900 MM</p> <p>OUTDOOR PORCELAIN TILES 600X900 MM</p> <p>20MM THICKNESS</p> <p>OUTDOOR PORCELAIN TILES 600X900 MM</p> <p>600x900mm</p>	

GIRGRES
porcelain pavers

girgres.com