GHR
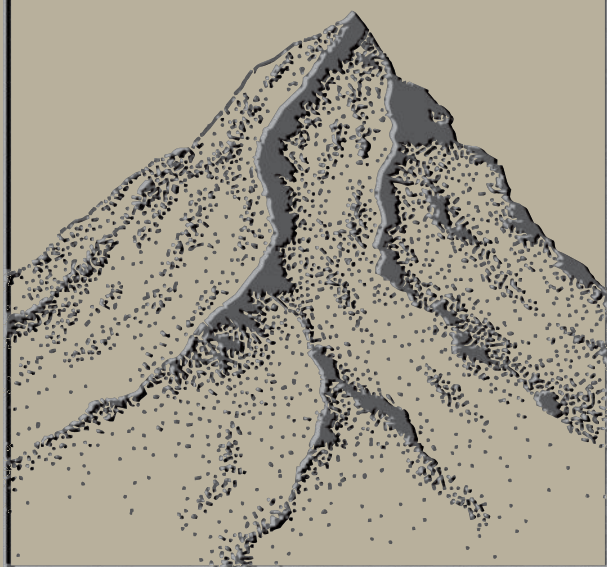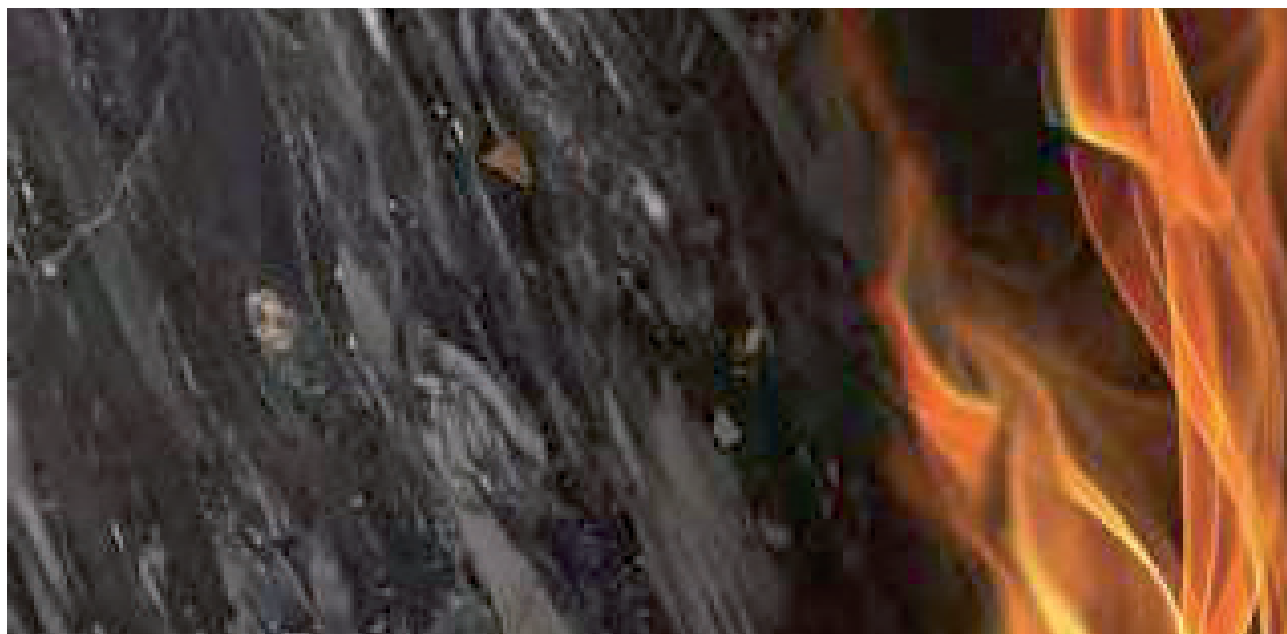
COLLECTION

600 x 1200 mm

VIVID SPECIMENS THAT INSPIRE CREATIVITY

Reputed manufacture of technically-advanced vitrified tiles, providing an expansive range of vitrified til decor options for home and commercial interiors. A private limited company based in the western-Indian ceramic hub of Morbi (Gujarat), Modern manufacturing unit is technically Supported by System & SACMI, a regognized worldwide leader in manufacturing machines and complete plants for the Ceramics industry.

REFLECTING
NATURE

GHR
COLLECTION

A smooth matte surface with a structured feel, such as the GHR tile, offers an excellent choice for flooring in various desired areas. The upgraded matte finish provides a contemporary touch that appeals to modern interior design trends. Its unique combination of smoothness and subtle texture can enhance the aesthetic appeal of any space, making it both stylish and practical for high-traffic areas.

Structural Properties:
• 100% Vitrified tiles
• Water absorption less than 0.5%
• High Breaking strength 36Nmm2
• Technical Value under ISO Standard.
• Group -3 Products

Preferred Uses:
• Household and Commercial wall and floor application.
• All type of wall applications as per choice of aesthetic value.

What is new with GHR surface?
• Contemporary matt surface with structure feel is carrying high aesthetic value
• Hi-end test of floor and wall application.
• With controlled reflection designs looks more attractive than just normal matt
• Suitable for commercial application.
• Structured looks will give more natural feel.

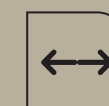|					
Hygienic & Suitable for Contact with Food	Water Resistant Surface	Stain Resistant Surface	Scratch & Abrasion Resistant	Resistant to Chemicals Acids, Bases & Solvents	Easy to Clean Surface
Impact Resistant Surface	Resistant to UV Rays	Resistant to Mould, Mildew & Fungus	Resistant to Fire & Heat	Frost Resistant Surface	Flatness & Stability Over Time

LUCIDO CAFFEE

Surface **Matt** / Thicness **9mm**
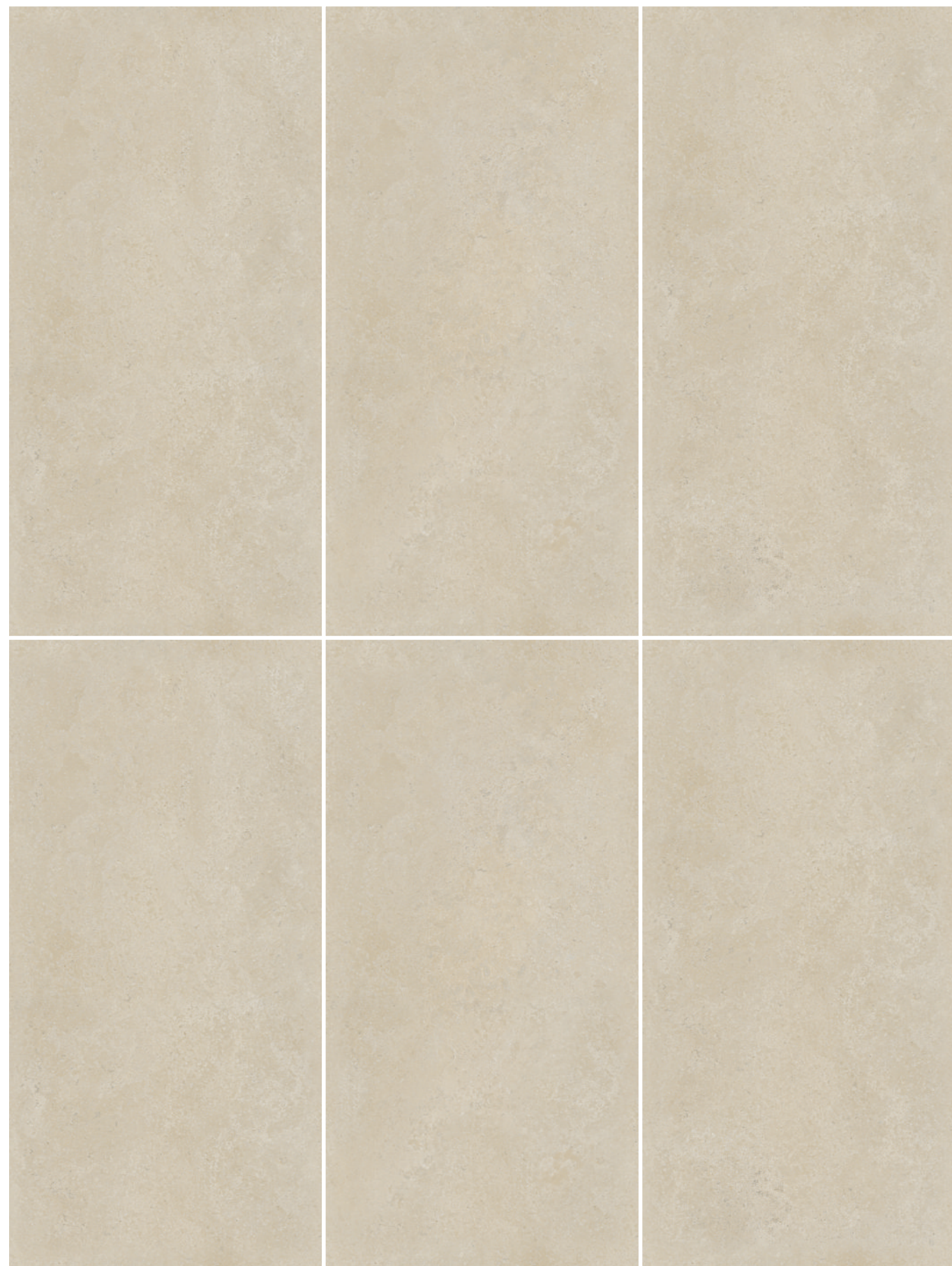
Random **03**

GHR
COLLECTION

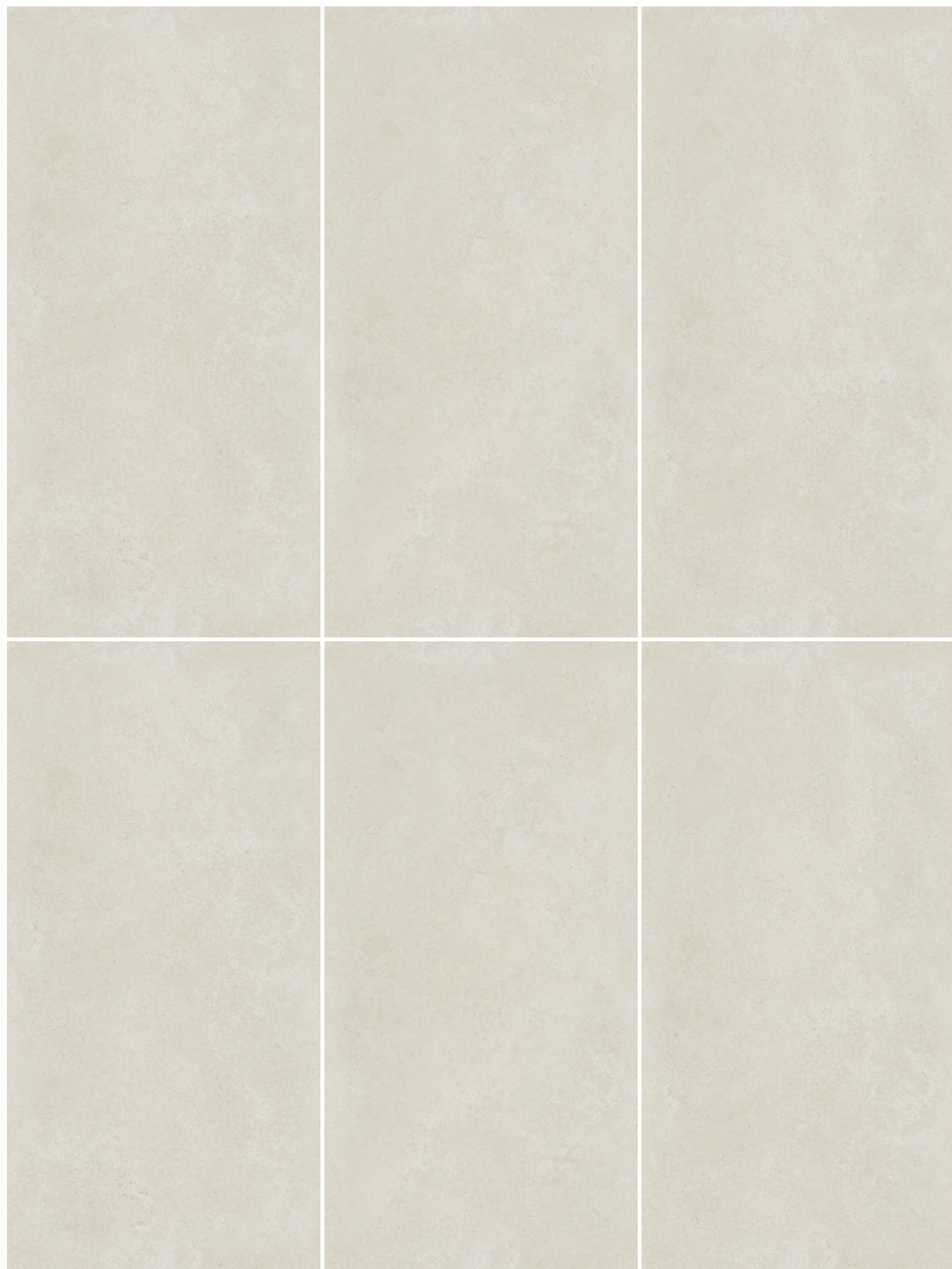**600x 1200mm**

CALLIS BIANCO

Surface **Matt** / Thicness **9mm**
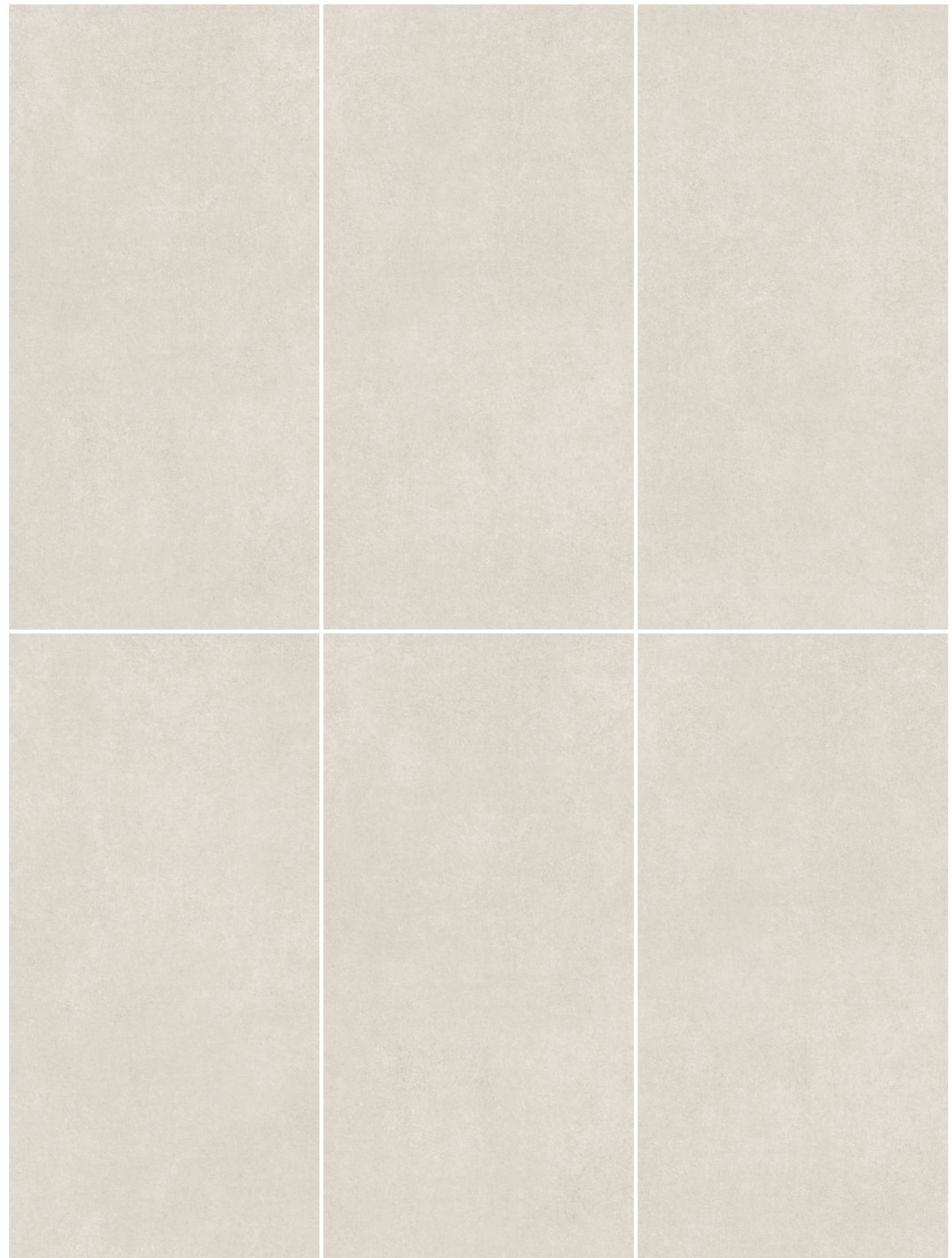
Random **04**

CALLIS CAFFEE

Surface **Matt** / Thicness **9mm**

Random **04**

GHR
COLLECTION
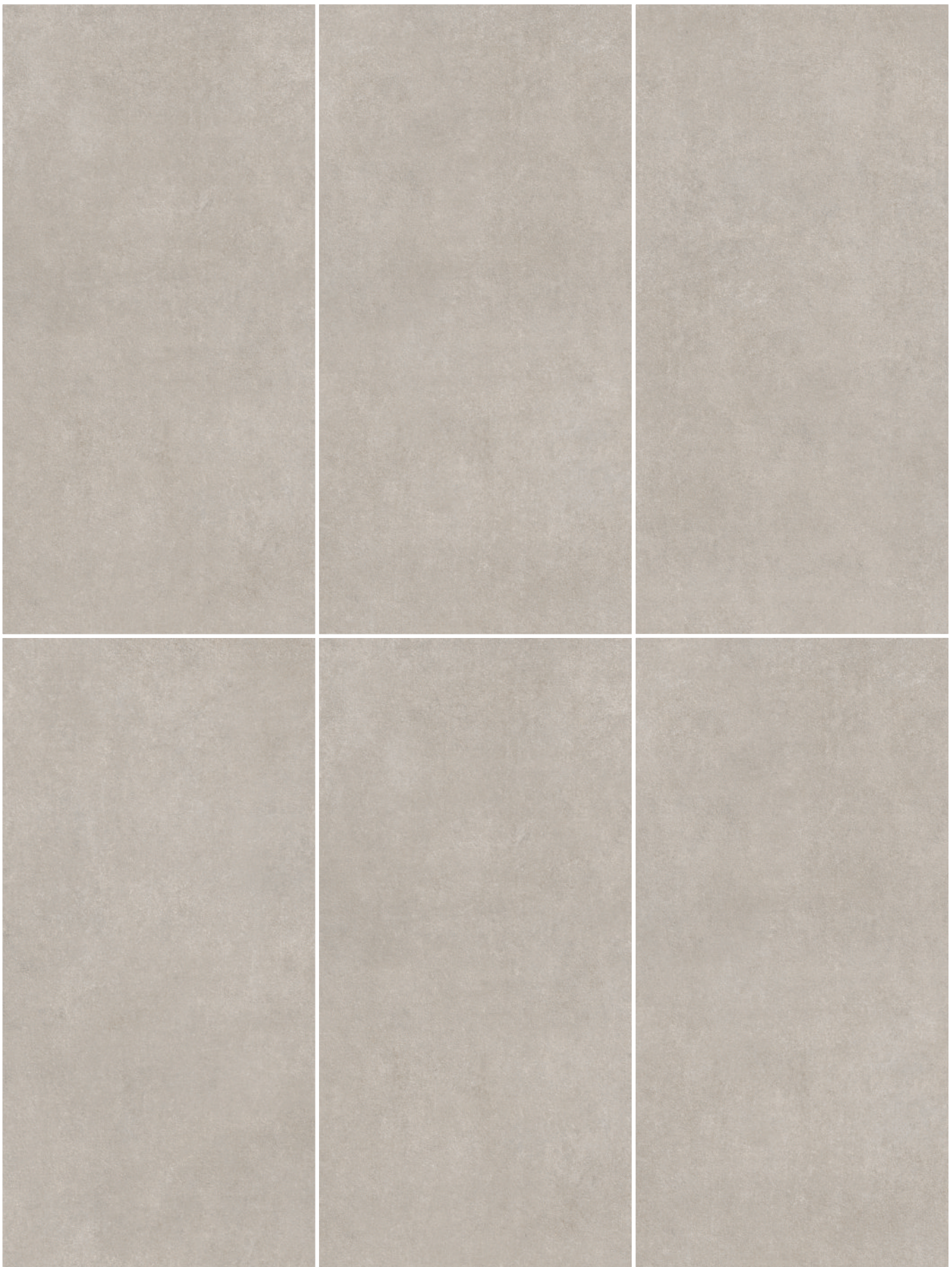
600x 1200mm

Floor: Callis Caffee *Wall:* Callis Caffee

CALLIS GREY

Surface **Matt** / Thicness **9mm**
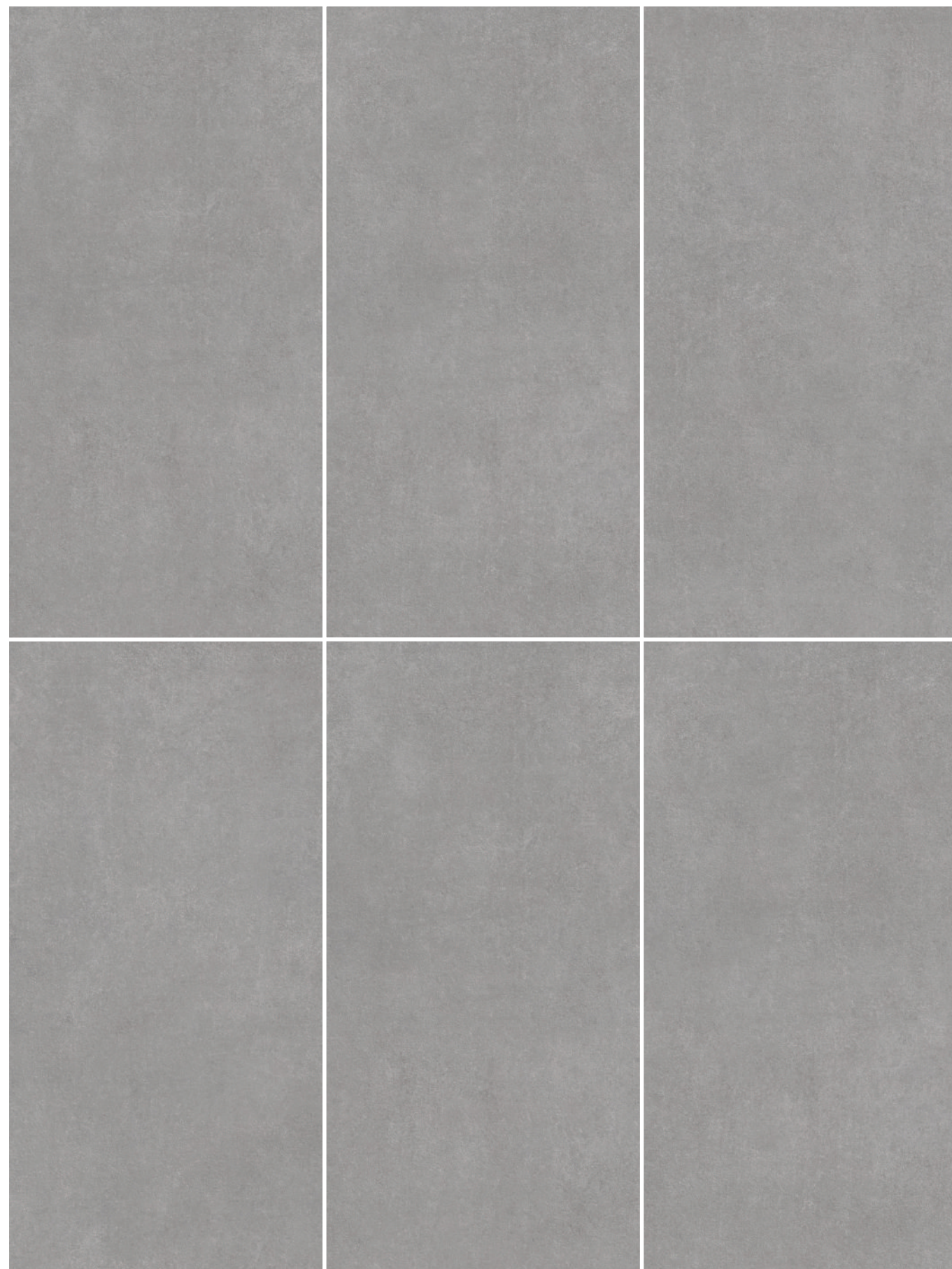
Random **04**

CALLIS SILVER

Surface **Matt** / Thicness **9mm**
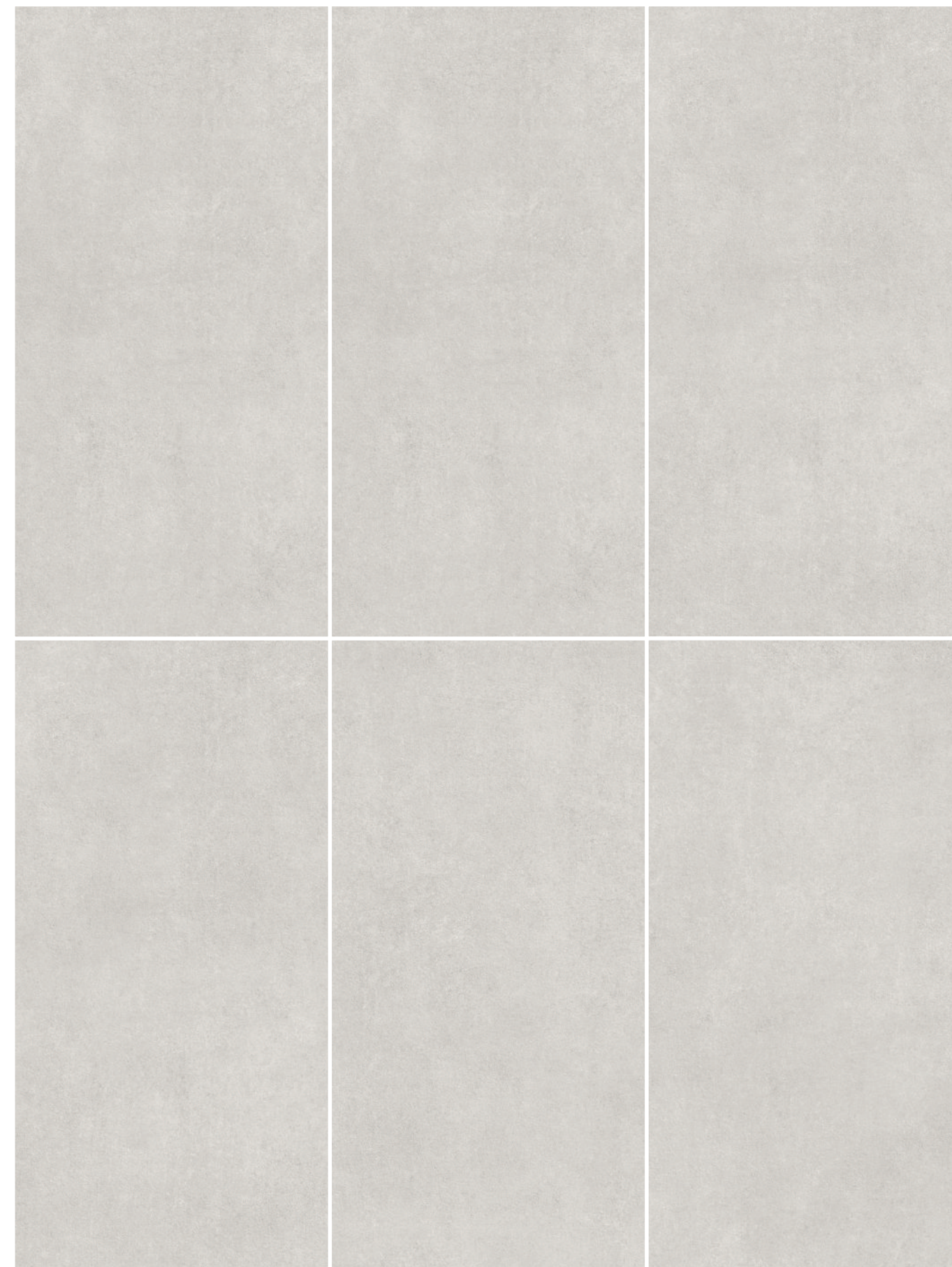
Random **04**

600x 1200mm

Floor: Callis Silver *Wall:* Callis Grey

FLORESTA ASH

Surface **Matt** / Thicness **9mm**

Random **03**

GHR
COLLECTION

FLORESTA CAFFEE

Surface **Matt** / Thicness **9mm**

Random **03**

FLORESTA BIANCO

Surface **Matt** / Thicness **9mm**

Random **03**

GHR
COLLECTION

600x
1200mm

Floor: Floresta Caffee *Wall:* Floresta Caffee

FRESCCO TAN

Surface **Matt** / Thicness **9mm**
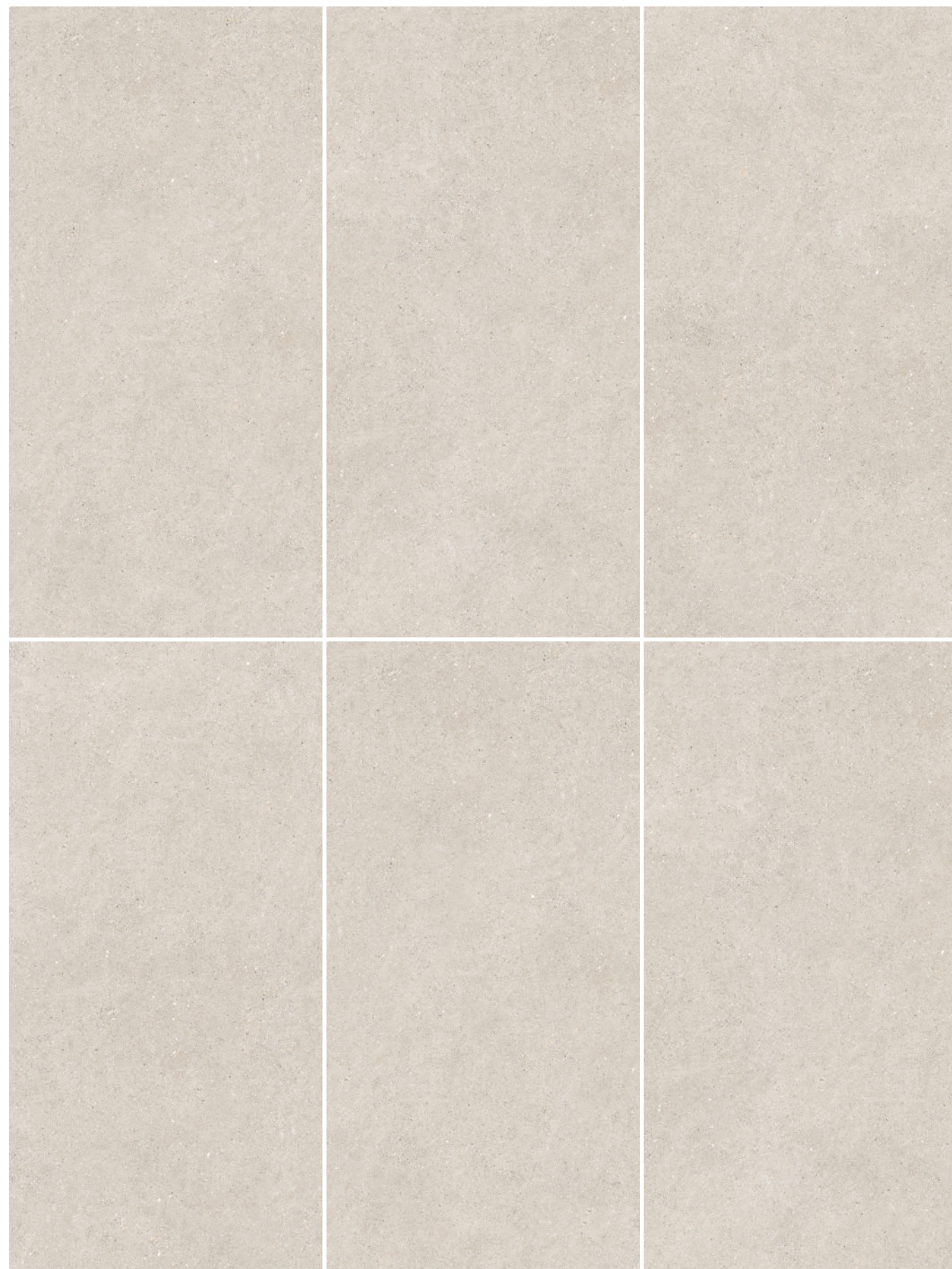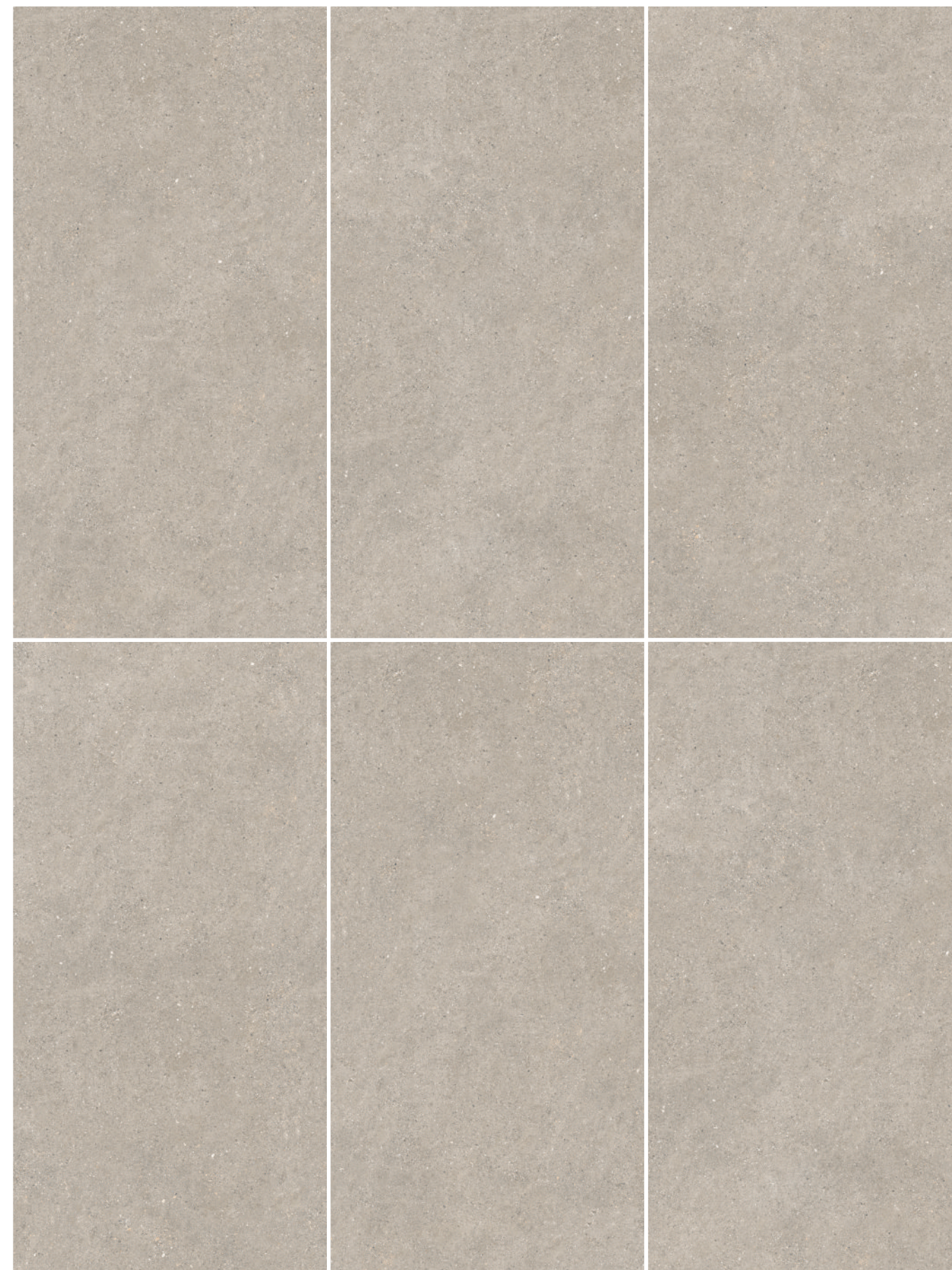
Random **04**

FRESCCO CAFFEE

Surface **Matt** / Thicness **9mm**

Random **04**

GHR
COLLECTION

600x 1200mm

Floor: Frescco Tan *Wall:* Frescco Caffee

Technical Specification

SR.NO	PHYSICAL PROPERTIE	TEST METHOD	TEST REQUIREMENT	SIMOLA'S PORCELAIN SLAB PERFORMANCE	REMARKS
	(1) DIMENSION AND SURFACE QUALITY				
1.1	Deviation in length (L) & width (W)	ISO10545-2	± 1MM		Complies
	(a) The Deviation in percentage of the average size of each tile (2 or 4 sides) from the work size (w)			Avg + 0.20mm Avg -0.00mm	
	(b) The deviation in percentage of the average siz of each tile (2 or 4 sides) from the average size of the 10 test specimen (20 or 40 side)"			Avg + 0.14mm Avg -0.00mm	
1.2	Thickness	ISO10545-2	± 1MM		Complies
	The deviation in percent of the average thickness of each tile from the worksize thickness			Avg + 0.00mm Avg -0.15mm	
1.3	Straightness of sides	ISO10545-2	± 0.8MM		Complies
	The maximum deveiation from rectangularity in percent related to corresponding work size			Max + 0.14mm Max - 0.16mm	
1.4	Rectangularity	ISO10545-2	± 0.8MM		Complies
	The maximum deveiation from rectangularity in percent related to corresponding work size			Max + 0.16mm Max - 0.17mm	
1.5	Surface flatness	ISO10545-2			Complies
	(a) Centre curvature Centre curvature related to diagonal calculatedfrom the work size.		± 1.8 mm	Max + 0.12 mm Max - 0.00 mm	
	(b) Edge curvature Edge Curvature related to the corresponding work size		± 2 mm	Max + 0.14 mm Max - 0.00 mm	
	(c) Warpage Warpage related to diagonal calculated from the work size.		± 1.8 mm	Max + 0.12 mm Max - 0.00 mm	
	(2) PHYSICAL PROPERTIES				
2.1	Water absorption (%) (a) 0.109 % (b) 0.111% (c) 0.118% (d) 0.105% (e) 0.108%	ISO10545-3	Require as per saso ISO 13006 ‹ e 0.50% Individual maximum 0.60%	Avg. 0.11%	Complies
2.2	Modulus of rupturee (MOR) (a) 38.29 N/mm² (b) 39.43 N/mm² (c) 39.23 N/mm² (d) 37.57 N/mm² (e) 37.32 N/mm² (f) 42.46 N/mm² (g) 40.51 N/mm² (h) 39.37 N/mm²	ISO10545-4	Minimum 35 Individual maximum 32	Avg. 39.27 N/mm²	Complies
2.3	Breaking strength in (N) (a) 1716.48 N (b) 1795.95 N (c) 1788.15 N (d) 1692.60 N (e) 1787.15 N (f) 1959.75 N (g) 1887.60 N (h) 1816.91 N	ISO10545-4	Require Thickness ≥ 7.5 mm Not less than 1300	Avg. 1805.57 N	Complies
2.4	Crazing resistance	ISO10545-11	No crazing in two cycle one hour duration at a steam pressure of 750±20Kpa 6 Nos of tiles ware subjected to autoclaving at a steam pressure of 750±20Kpa of saturated steam for two hour consisting of two cycle. None of the tiles show any sign of the crazing on the glaze surface and the lot pass the test	PASSED THE TEST	Complies
2.5	Thermal shock resistance	ISO10545-9	Require 10 Cycle min	15/145°c 10 cycle	Complies
2.6	Co Efficient of linear thermal expantion	ISO10545-8	Require 9X10 ⁻6 Max	4.74X10 ⁻6	Complies
	Expantion from ambient temperature to 100 C (K-1)				
2.7	Resistance to surface abrasion	ISO10545-7	Visual failure was observed at 6000 revolution when the tiles ware subjected to abrasion stage of 150,600,750,1500,2100 upto 6000 revolution, 2100 revolution pass.	2100 revolution pass	Class IV
2.8	Moisture expansion mm/m	ISO10545-10	0.02 mm/m max	No expansion	Complies
2.9	Scratch Hardness of surface (MOH's Scale)	ISO13630-13	5 Moh's scal	5 Moh's	Complies
2.10	Bulk Density	ISO10545-3	2.2MIN	2.2764g/cc	Complies
2.11	Impact Resistance	ISO10545-5	0.55 Min	0.57	Complies
	(3) CHEMICAL PROPERTIES				
3.1	"House hold chemical resistance Ammonium chlorine solution 100 G/L"	ISO10545-13	Min Class-GC	Class GA	No visual changes observed after impression for 24 hours pencil lines removed with wet wiping removed
3.2	"Swimming Pool Salt Sodium hypochlorite solution, 20 mg/L"	ISO10545-13	Min Class-GC	Class GA	No visual changes observed after impression for 24 hours with wet wiping removed
3.3	Acid & alkalies				
3.3 (A)	Low concentration (L)				
	(a) Hydrochloric acid solution 3% (V/V)	ISO10545-13	Min Class-GLC	Class GLA	No visual changes observed after impression for 24 hours pencil lines removed with wet wiping removed
	(b) Citric acid soln. 100gm/l	ISO10545-13	Min Class-GLC	Class GLA	No visual changes observed after impression for 24 hours pencil lines removed with wet wiping removed
	(c) Potassium Hydroxide soln 30 gm/l	ISO10545-13	Min Class-GLC	Class GLA	No visual changes observed after impression for 24 hours pencil lines removed with wet wiping removed
3.3 (B)	High concentration (H)				
	(a) Hydrochloric acid solution 18% (V/V)	ISO10545-13	Min Class-GHC	Class GLA	No visual changes observed after impression for 24 hours pencil lines removed with wet wiping removed
	(b) Lactic Acid Soln. 5% (V/V)	ISO10545-13	Min Class-GHC	Class GLA	No visual changes observed after impression for 24 hours pencil lines removed with wet wiping removed
	(c) Potassuim Hydroxide Soln. 200gm/l (V/V)	ISO10545-13	Min Class-GHC	Class GLA	No visual changes observed after impression for 24 hours pencil lines removed with wet wiping removed
3.4	Resistance to satin	Stain put on tiles up to 24 hrs			
	Red past in light oil (Fe2O3)	Stain removed by hot water	Min Class - 3	Class -5	Complies
	Loding in alcohol 13g/l	Stain removed by hot weak cleaning agent	Min Class - 3	Class -4	
	Olive oil	Stain removed by hot water	Min Class - 3	Class -5	
3.5	Lead and cadium release in mg/dm²				
	Lead releases Test Solution Acietic acid solution 4% (V/V) (In 960 ml distilled water	Digestion time -24 hrs (20±2°) Detected by ED XRF	0.1 mg/dm²	0.00 mg/dm²	Complies
	Cadmium Release Test Solution Acietic acid solution 4% (V/V) (In 960 ml distilled water	Digestion time -24 hrs (20±2°) Detected by ED XRF	0.1 mg/dm²	0.00 mg/dm²	Complies
3.6	Small colour differences	ISO10545-9	Require 10 Cycle min	Δ E ‹ 0.75	No Difference