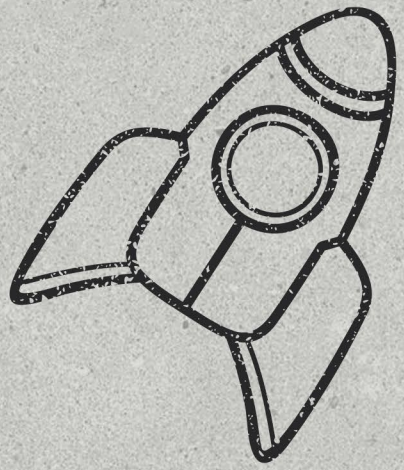
600x1200mm | GVT
Matt Series

larson
tiles

matt
series

touch has a
memory

More clean and chic finish across
the entire surface leaving no imprints.



first
emotional
comfort

reduced glare to enhance the aesthetic appearance for classic touch.

- high strength
- eco friendly
- random design
- low maintenance

marvel
stone white

600x
1200mm

larson
tiles

larson tiles

marvel stone white

600x 1200mm

Thickness : **9mm**

Finish: **MATT**

- HIGH STRENGTH
- ECO FRIENDLY
- RANDOM DESIGN
- LOW MAINTENANCE

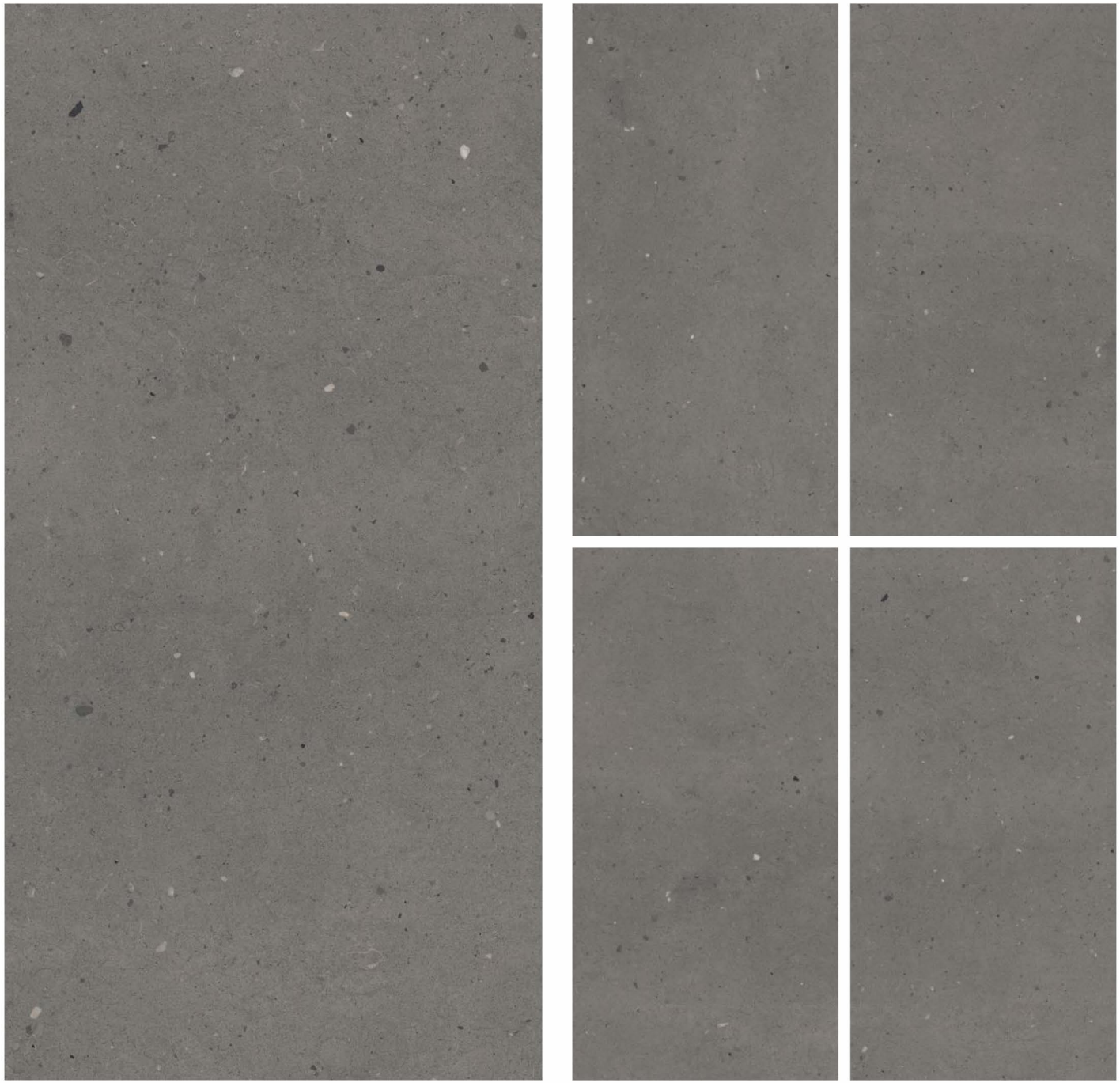
larson tiles

marvel stone
white & grey

marvel
stone grey

600x
1200mm

larson
tiles



larson tiles

marvel stone grey

600x 1200mm

Thickness : **9mm**

Finish: **MATT**

- HIGH STRENGTH
- ECO FRIENDLY
- RANDOM DESIGN
- LOW MAINTENANCE

larson tiles

marvel stone
white & grey

marvel
stone crema

600x
1200mm

larson
tiles

larson tiles

marvel stone crema

600x 1200mm

Thickness : **9mm**

Finish: **MATT**

- HIGH STRENGTH
- ECO FRIENDLY
- RANDOM DESIGN
- LOW MAINTENANCE

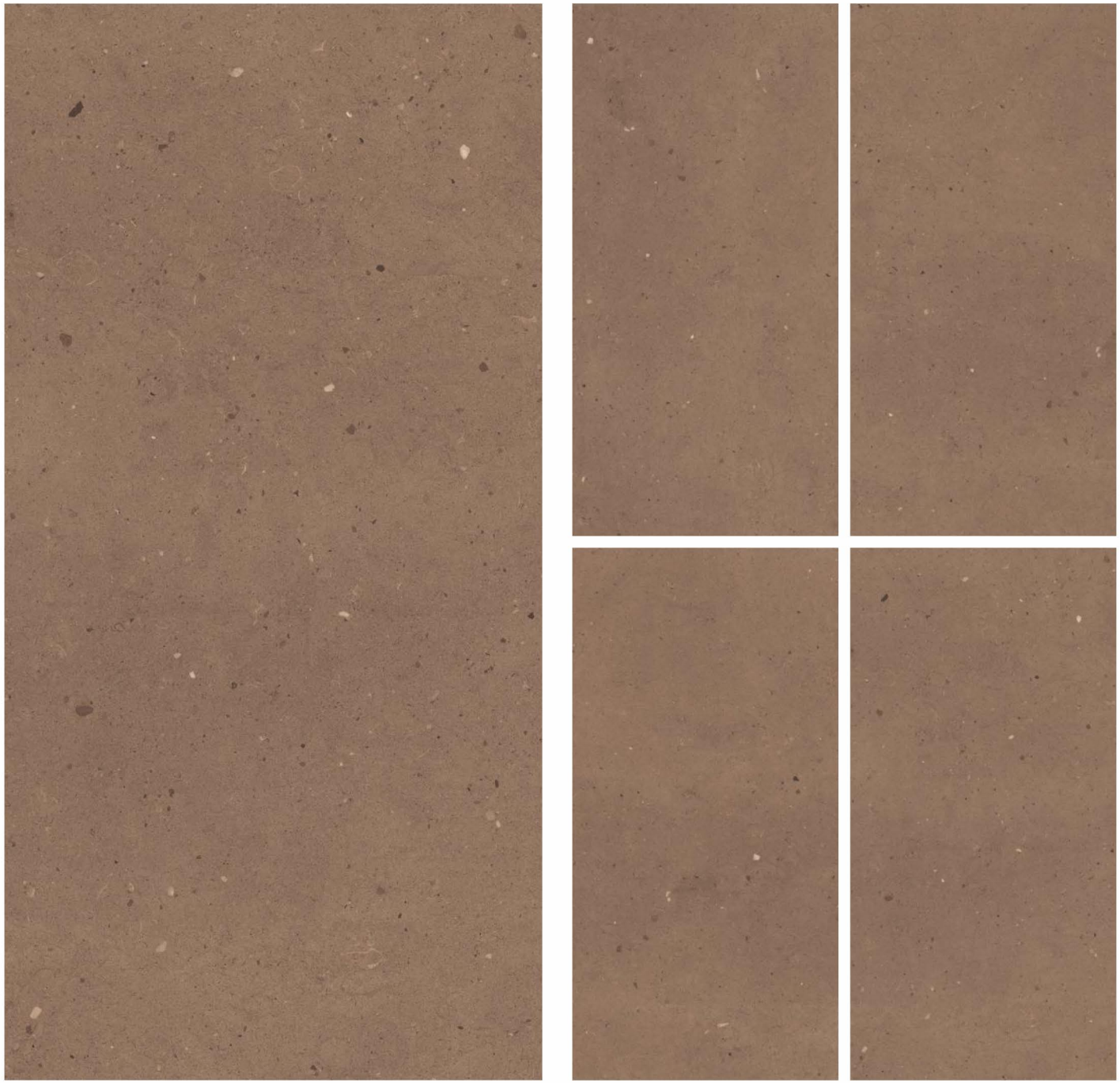
larson tiles

marvel stone
crema & bronze

marvel
stone bronze

600x
1200mm

larson
tiles



larson tiles

marvel stone bronze

600x 1200mm

Thickness : **9mm**

Finish: **MATT**

- HIGH STRENGTH
- ECO FRIENDLY
- RANDOM DESIGN
- LOW MAINTENANCE

larson tiles

marvel stone
crema & bronze

marvel
stone bianco

600x
1200mm

larson
tiles

larson tiles

marvel stone bianco

600x 1200mm

Thickness : **9mm**

Finish: **MATT**

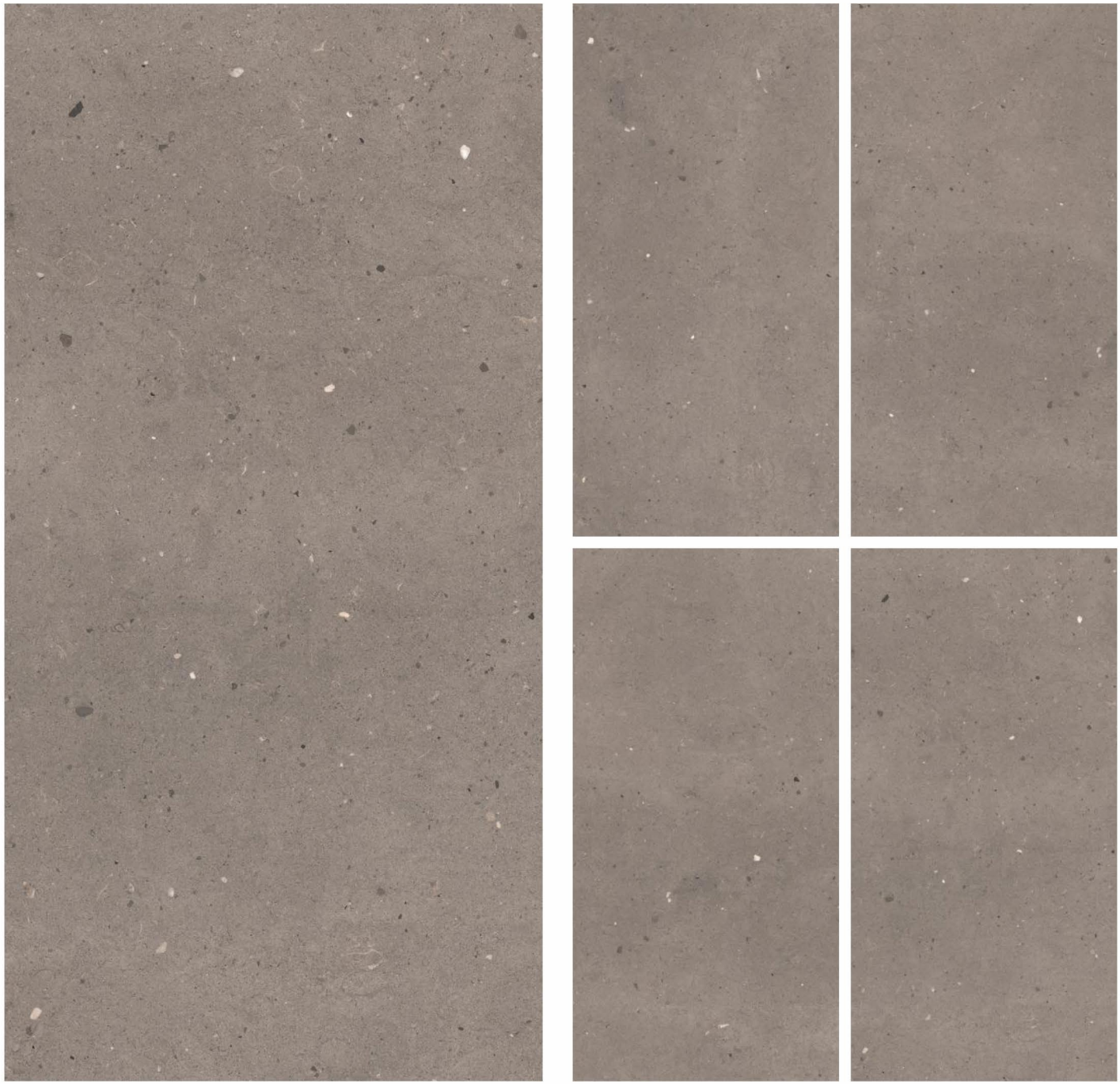
- HIGH STRENGTH
- ECO FRIENDLY
- RANDOM DESIGN
- LOW MAINTENANCE


larson
tiles
marvel stone
bianco

marvel
stone choco

600x
1200mm

larson
tiles



larson tiles

marvel stone choco

600x 1200mm

Thickness : **9mm**

Finish: **MATT**

- HIGH STRENGTH
- ECO FRIENDLY
- RANDOM DESIGN
- LOW MAINTENANCE

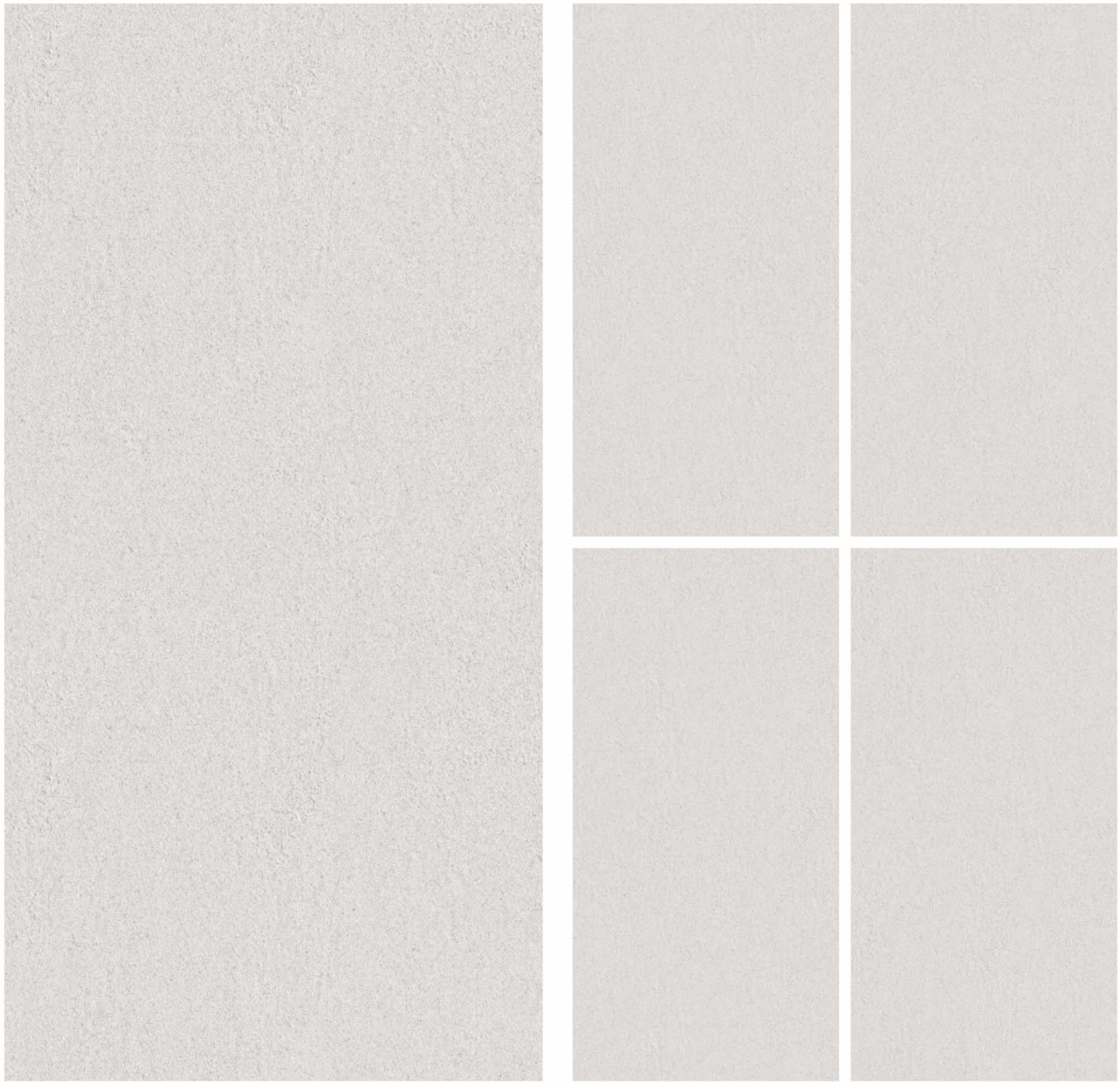
larson tiles

marvel stone
choco

sandy white

600x
1200mm

larson
tiles



larson
tiles

sandy white

600x 1200mm

Thickness : **9mm**

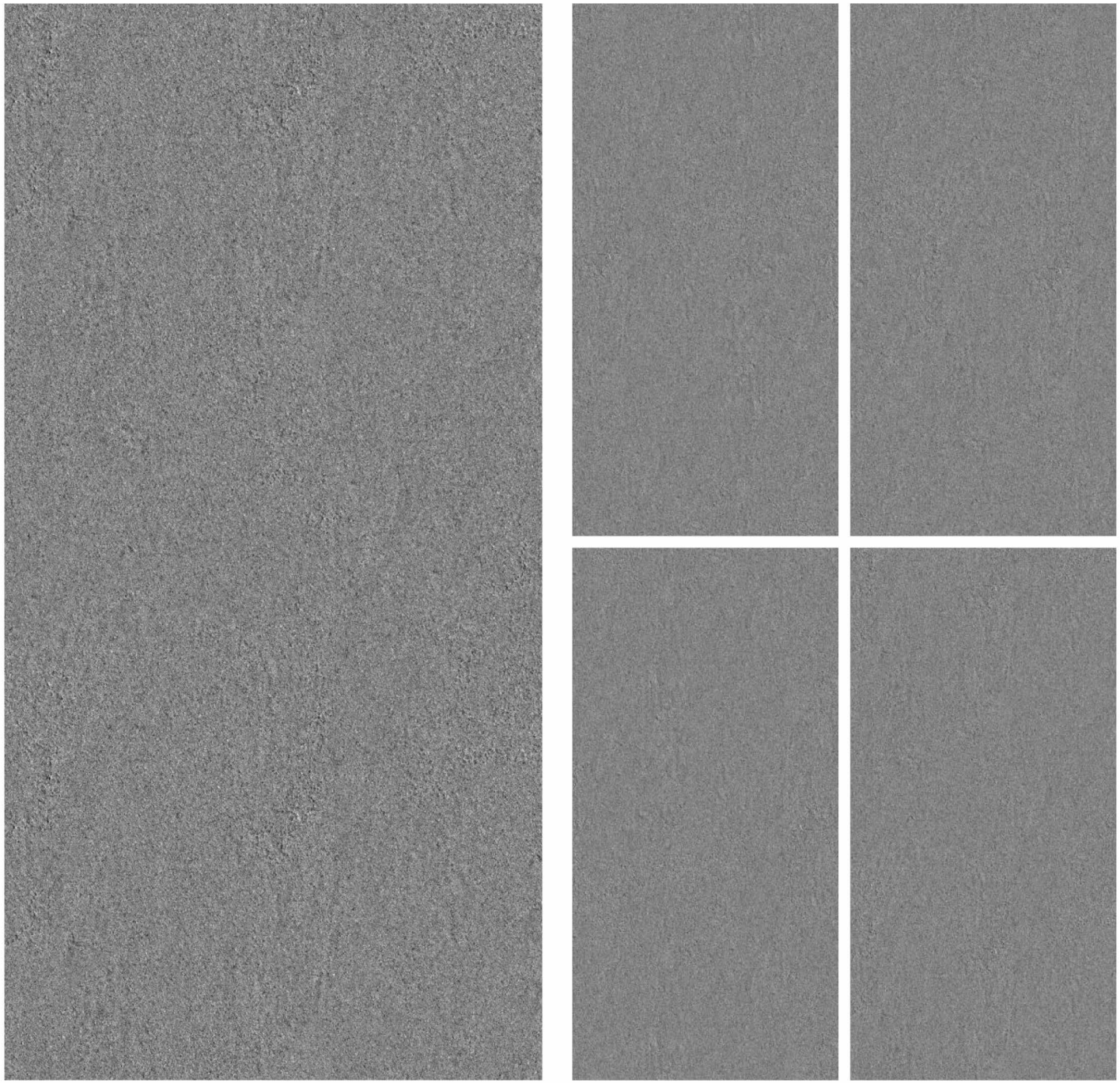
Finish: **MATT**

- HIGH STRENGTH
- ECO FRIENDLY
- RANDOM DESIGN
- LOW MAINTENANCE

sandy black

600x
1200mm

larson
tiles



larson tiles

sandy black

600x 1200mm

Thickness : **9mm**

Finish: **MATT**

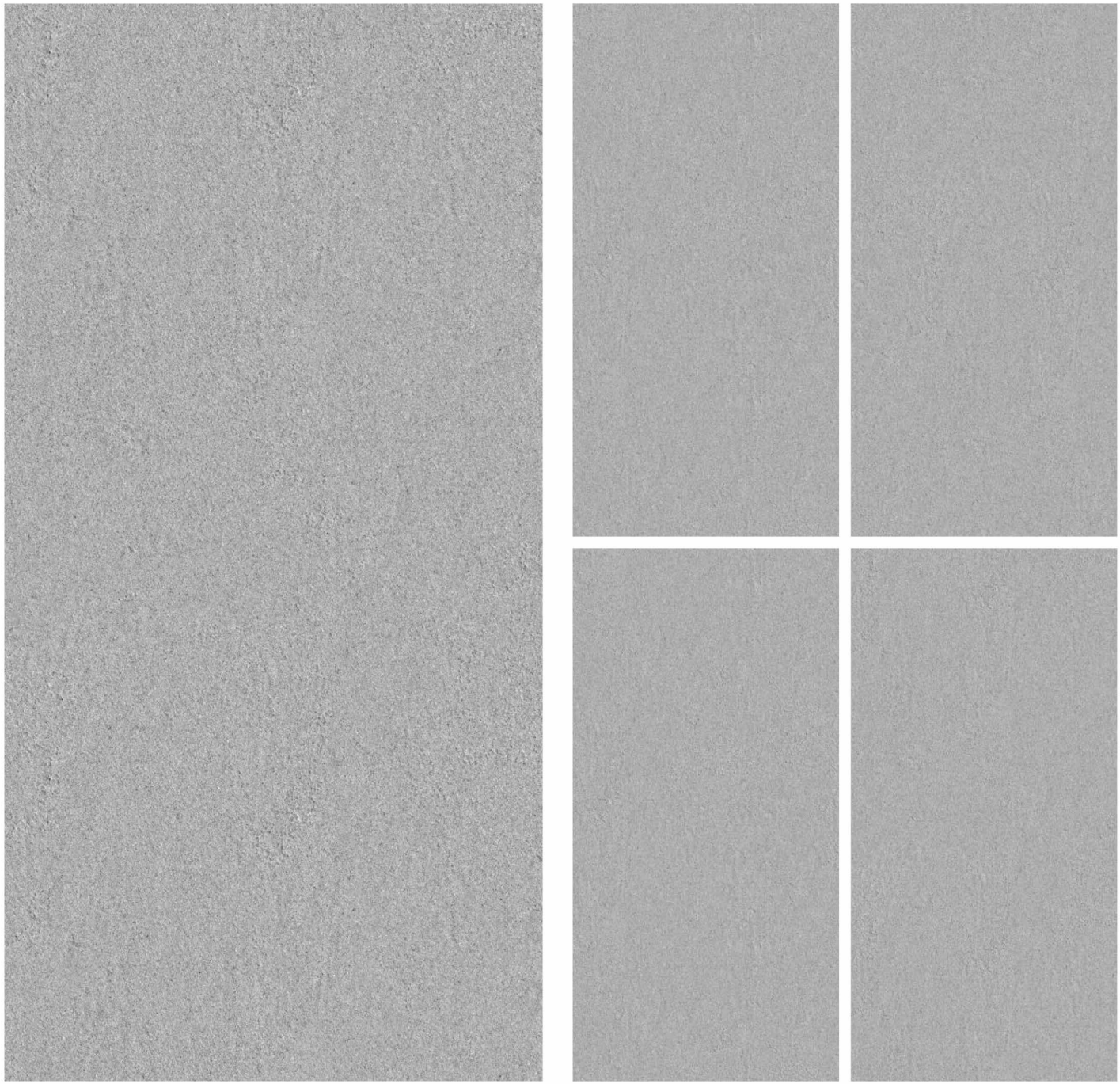
- HIGH STRENGTH
- ECO FRIENDLY
- RANDOM DESIGN
- LOW MAINTENANCE


larson
tiles
sandy
black

sandy grey

600x
1200mm

larson
tiles



larson
tiles

sandy grey

600x 1200mm

Thickness : **9mm**

Finish: **MATT**

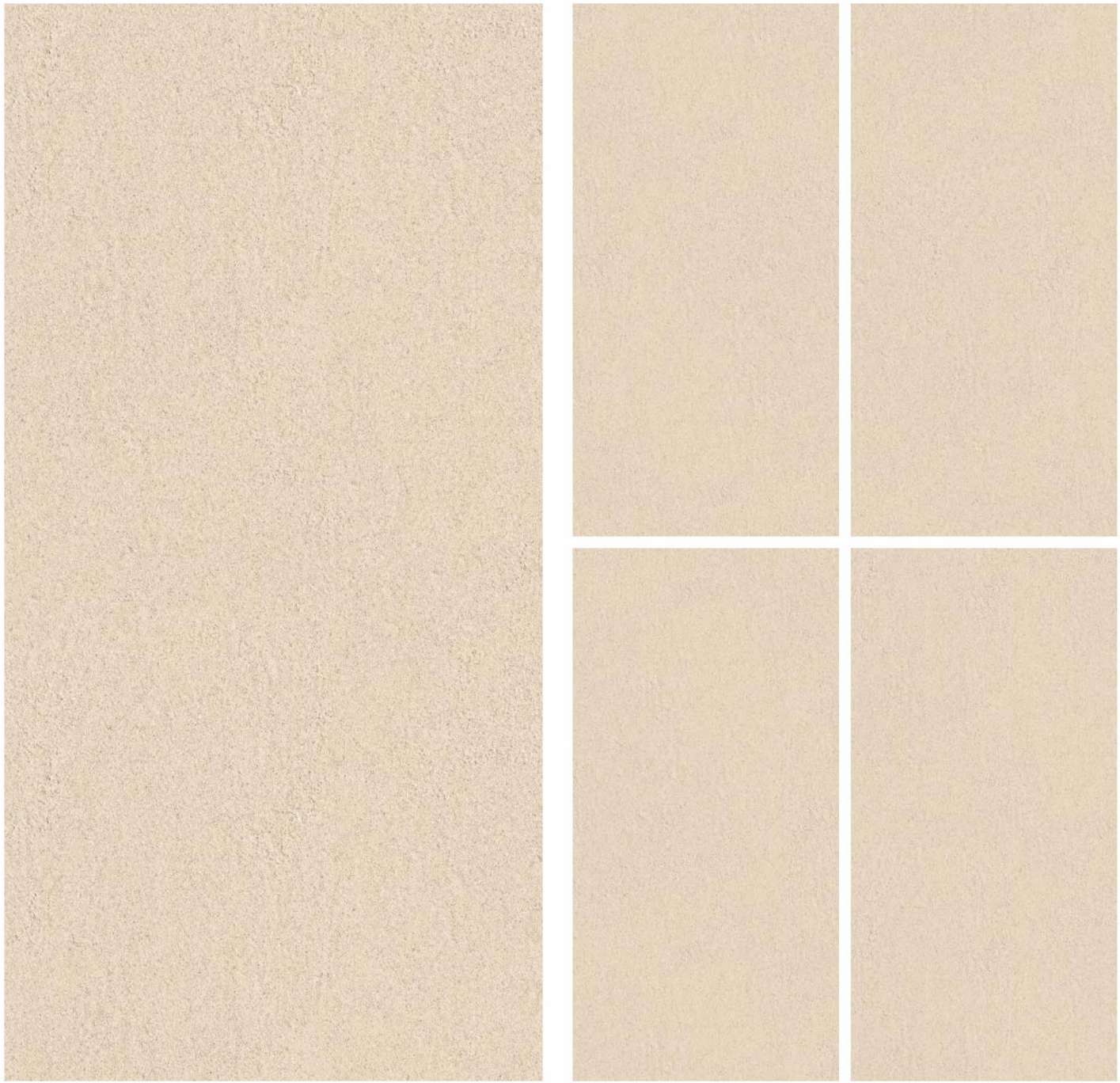
- HIGH STRENGTH
- ECO FRIENDLY
- RANDOM DESIGN
- LOW MAINTENANCE


larson
tiles
sandy
grey

sandy crema

600x
1200mm

larson
tiles



larson
tiles

sandy crema

600x 1200mm

Thickness : **9mm**

Finish: **MATT**

- HIGH STRENGTH
- ECO FRIENDLY
- RANDOM DESIGN
- LOW MAINTENANCE

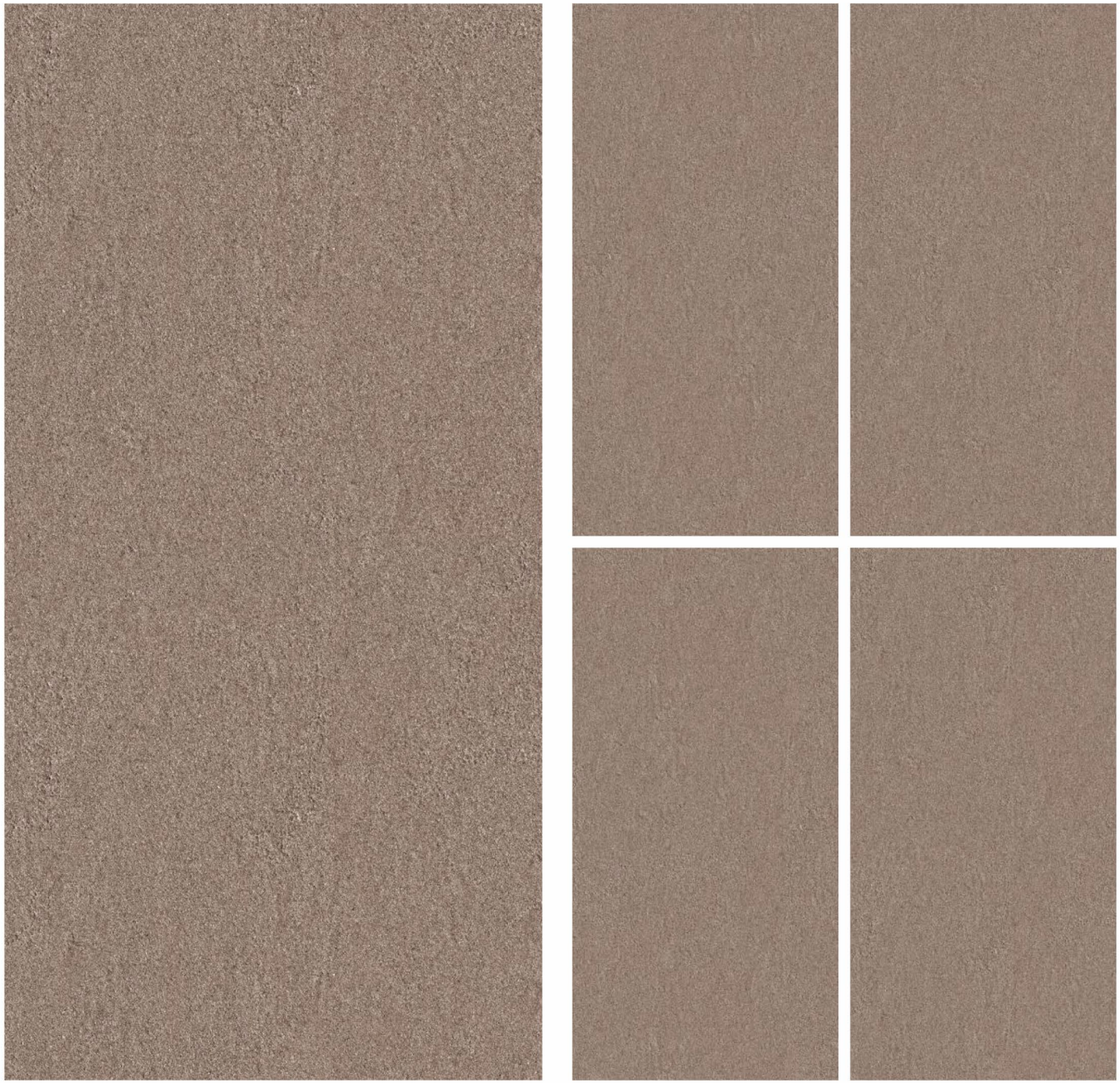
larson
tiles

sandy
crema & choco

sandy choco

600x
1200mm

larson
tiles



larson tiles

sandy choco

600x 1200mm

Thickness : **9mm**

Finish: **MATT**

- HIGH STRENGTH
- ECO FRIENDLY
- RANDOM DESIGN
- LOW MAINTENANCE

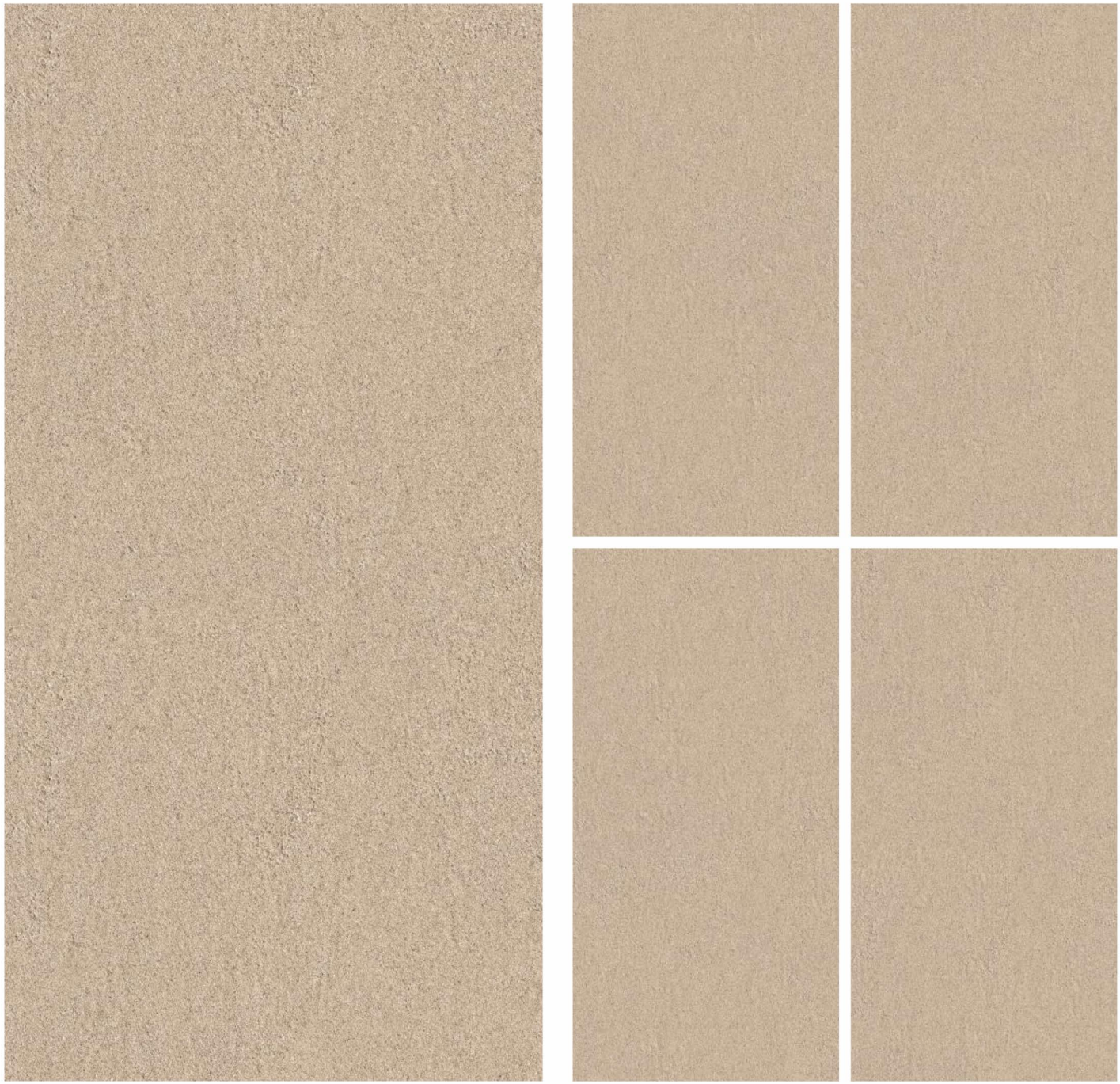
larson
tiles

sandy
crema & choco

sandy gold

600x
1200mm

larson
tiles



larson tiles

sandy gold

600x 1200mm

Thickness : **9mm**

Finish: **MATT**

- HIGH STRENGTH
- ECO FRIENDLY
- RANDOM DESIGN
- LOW MAINTENANCE

larson tiles

sandy gold

rocker grafite

600x
1200mm

larson
tiles

larson tiles

rocker grafite

600x 1200mm

Thickness : **9mm**

Finish: **MATT**

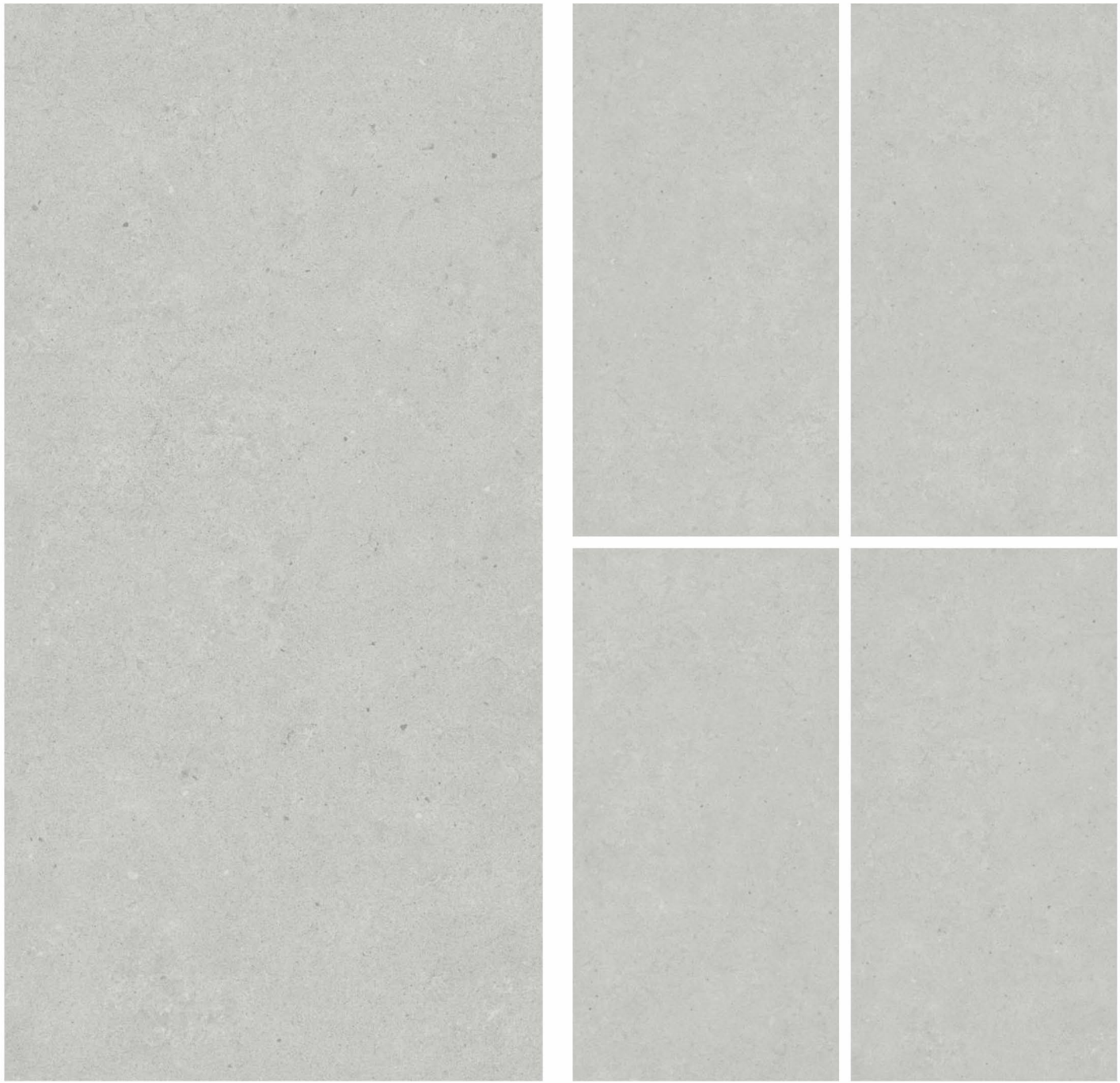
- HIGH STRENGTH
- ECO FRIENDLY
- RANDOM DESIGN
- LOW MAINTENANCE


larson
tiles
rocker
grafite

rocker grey

600x
1200mm

larson
tiles



larson tiles

rocker grey

600x 1200mm

Thickness : **9mm**

Finish: **MATT**

- HIGH STRENGTH
- ECO FRIENDLY
- RANDOM DESIGN
- LOW MAINTENANCE

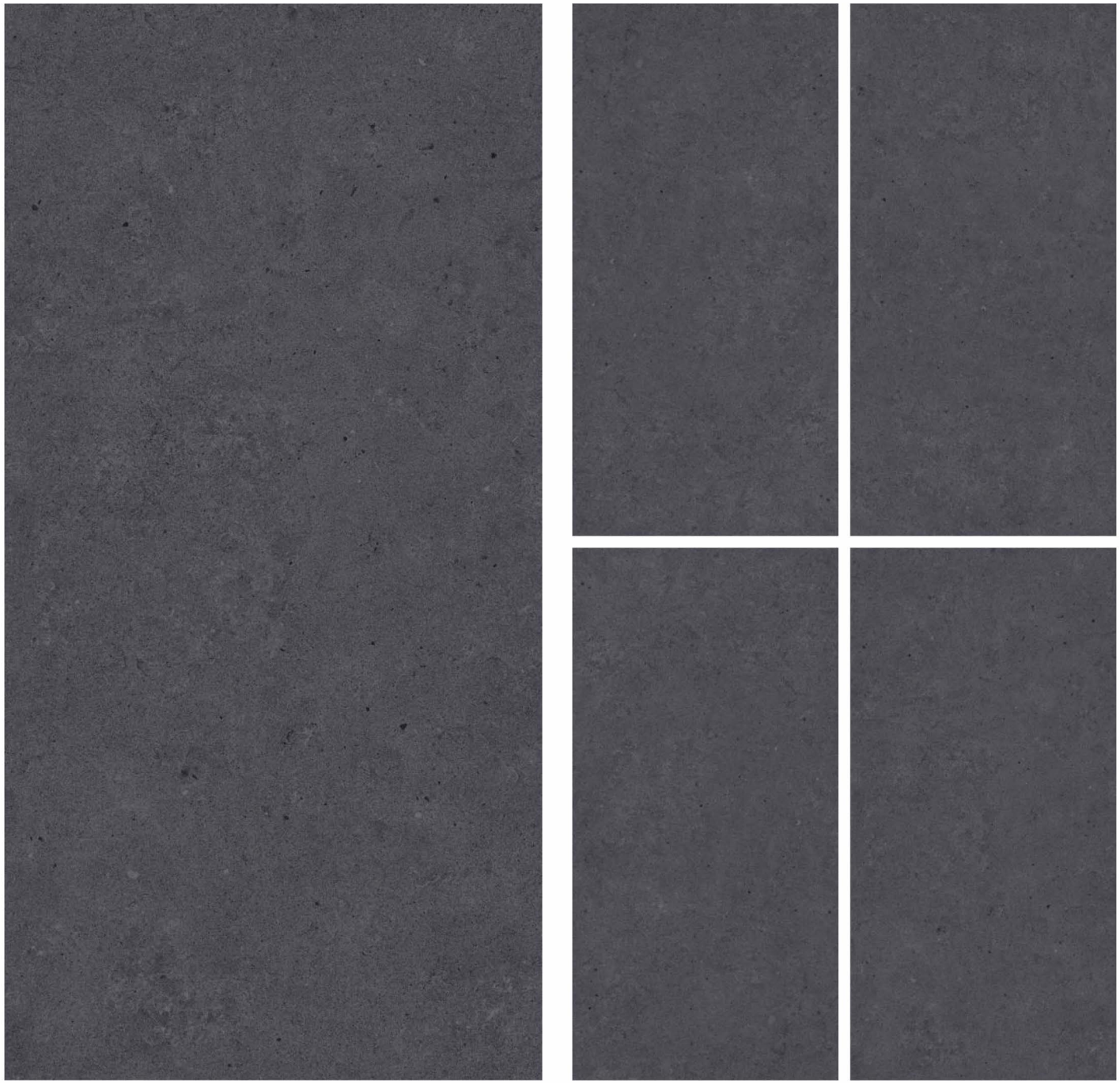
larson tiles

rocker
grey & black

rocker black

600x
1200mm

larson
tiles



larson tiles

rocker black

600x 1200mm

Thickness : **9mm**

Finish: **MATT**

- HIGH STRENGTH
- ECO FRIENDLY
- RANDOM DESIGN
- LOW MAINTENANCE

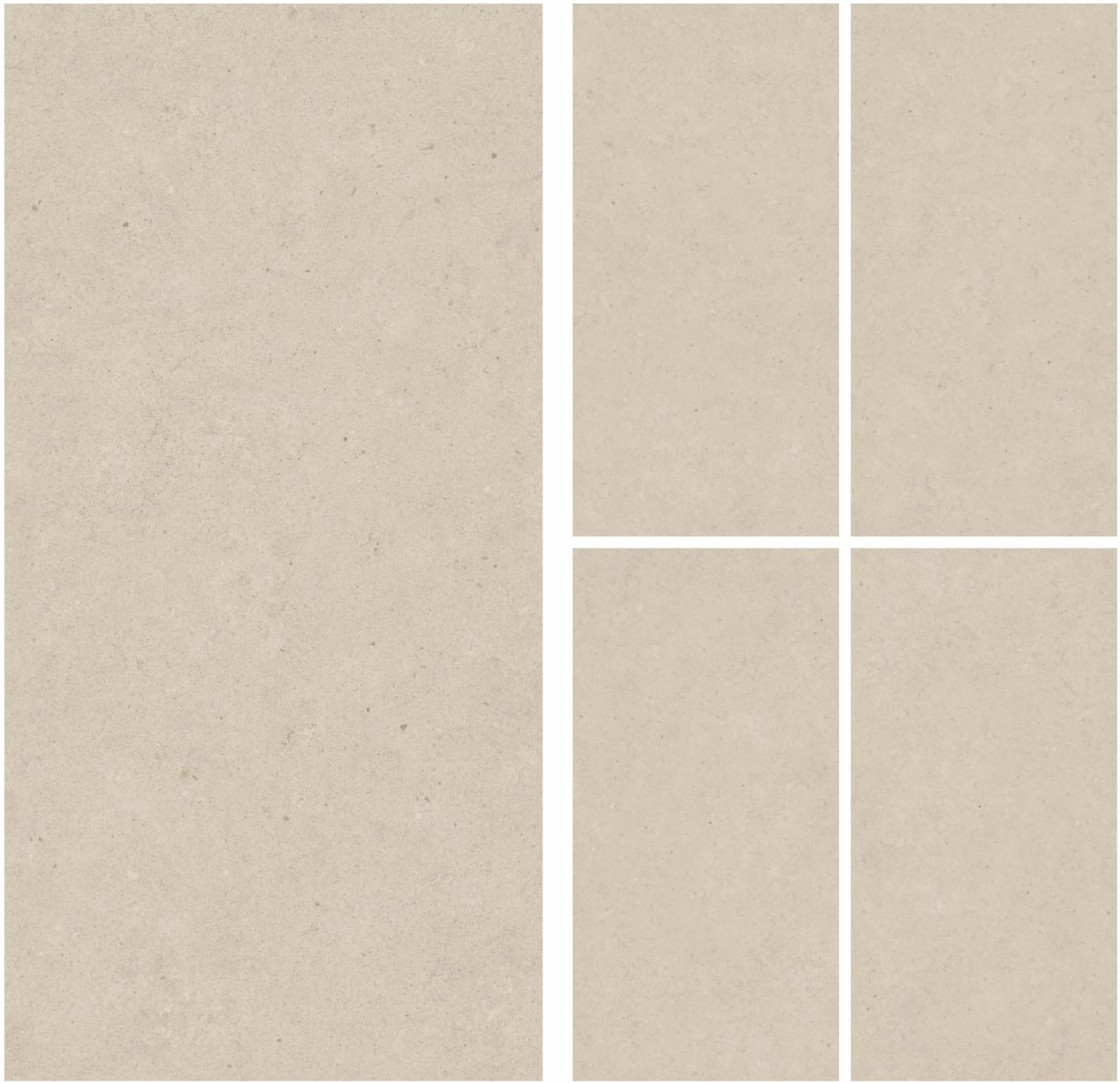
larson tiles

rocker black

rocker
ivory

600x
1200mm

larson
tiles



larson
tiles

rocker ivory

600x 1200mm

Thickness : **9mm**

Finish: **MATT**

- HIGH STRENGTH
- ECO FRIENDLY
- RANDOM DESIGN
- LOW MAINTENANCE

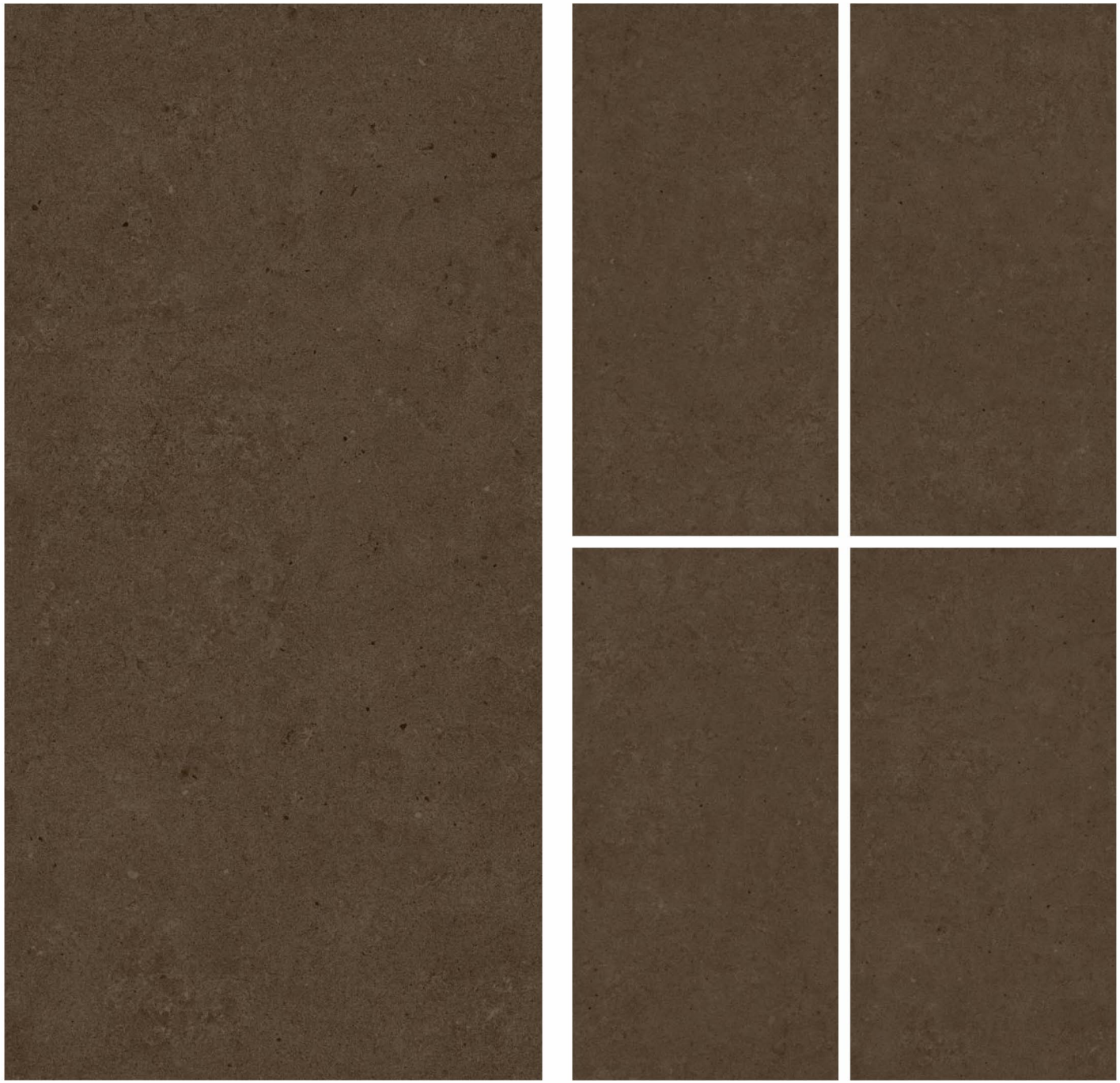
larson tiles

rocker
ivory & choco

rocker choco

600x
1200mm

larson
tiles



larson tiles

rocker choco

600x 1200mm

Thickness : **9mm**

Finish: **MATT**

- HIGH STRENGTH
- ECO FRIENDLY
- RANDOM DESIGN
- LOW MAINTENANCE

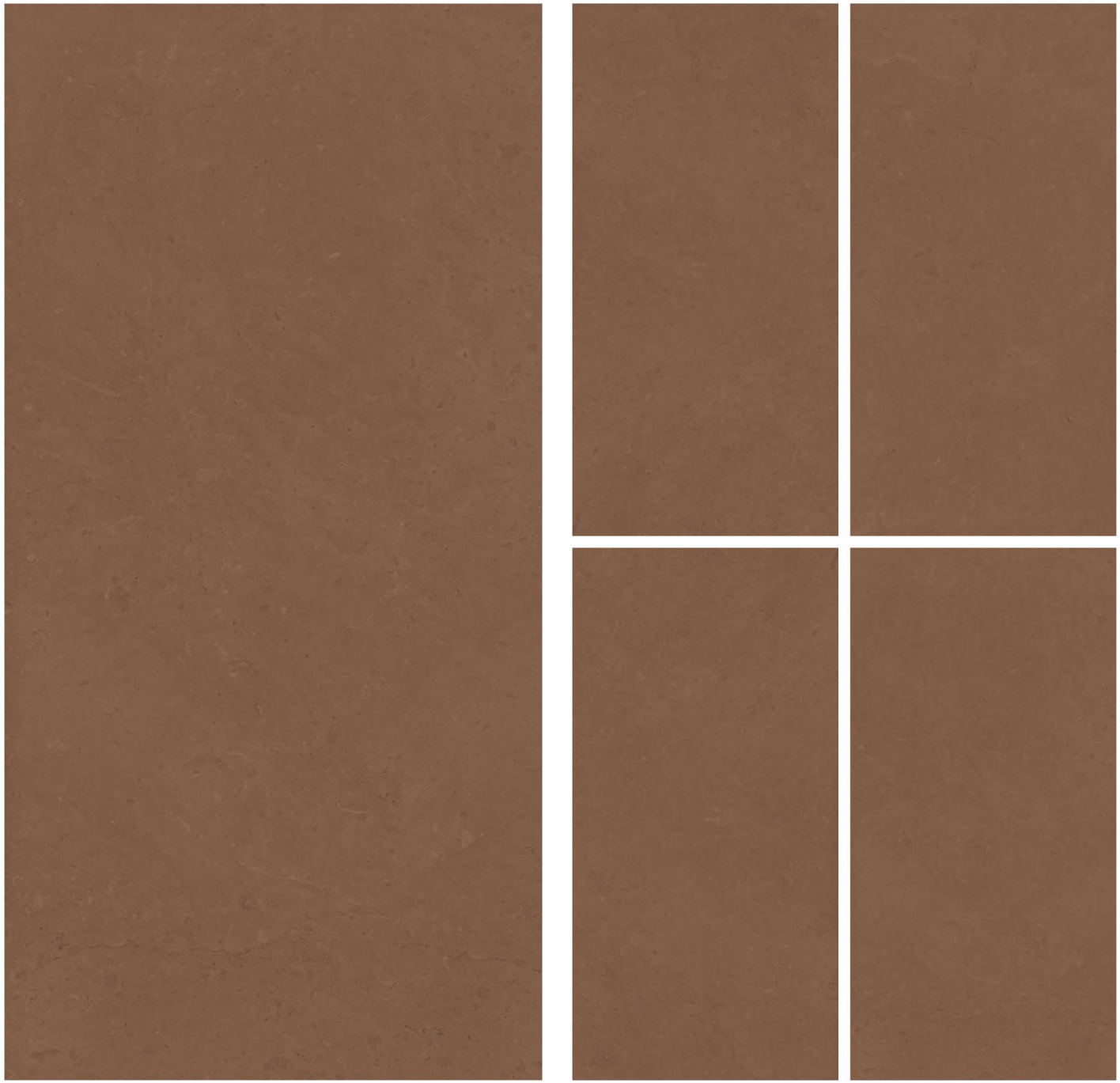
larson tiles

rocker
ivory & choco

rocker cotto

600x
1200mm

larson
tiles



larson tiles

rocker cotto

600x 1200mm

Thickness : **9mm**

Finish: **MATT**

- HIGH STRENGTH
- ECO FRIENDLY
- RANDOM DESIGN
- LOW MAINTENANCE

larson tiles

rocker cotto

rocker bronze

600x
1200mm

larson
tiles

larson tiles

rocker bronze

600x 1200mm

Thickness : **9mm**

Finish: **MATT**

- HIGH STRENGTH
- ECO FRIENDLY
- RANDOM DESIGN
- LOW MAINTENANCE

larson tiles

rocker
bronze

norman bianco

600x
1200mm

larson
tiles

larson tiles

norman bianco

600x 1200mm

Thickness : **9mm**

Finish: **MATT**

- HIGH STRENGTH
- ECO FRIENDLY
- RANDOM DESIGN
- LOW MAINTENANCE

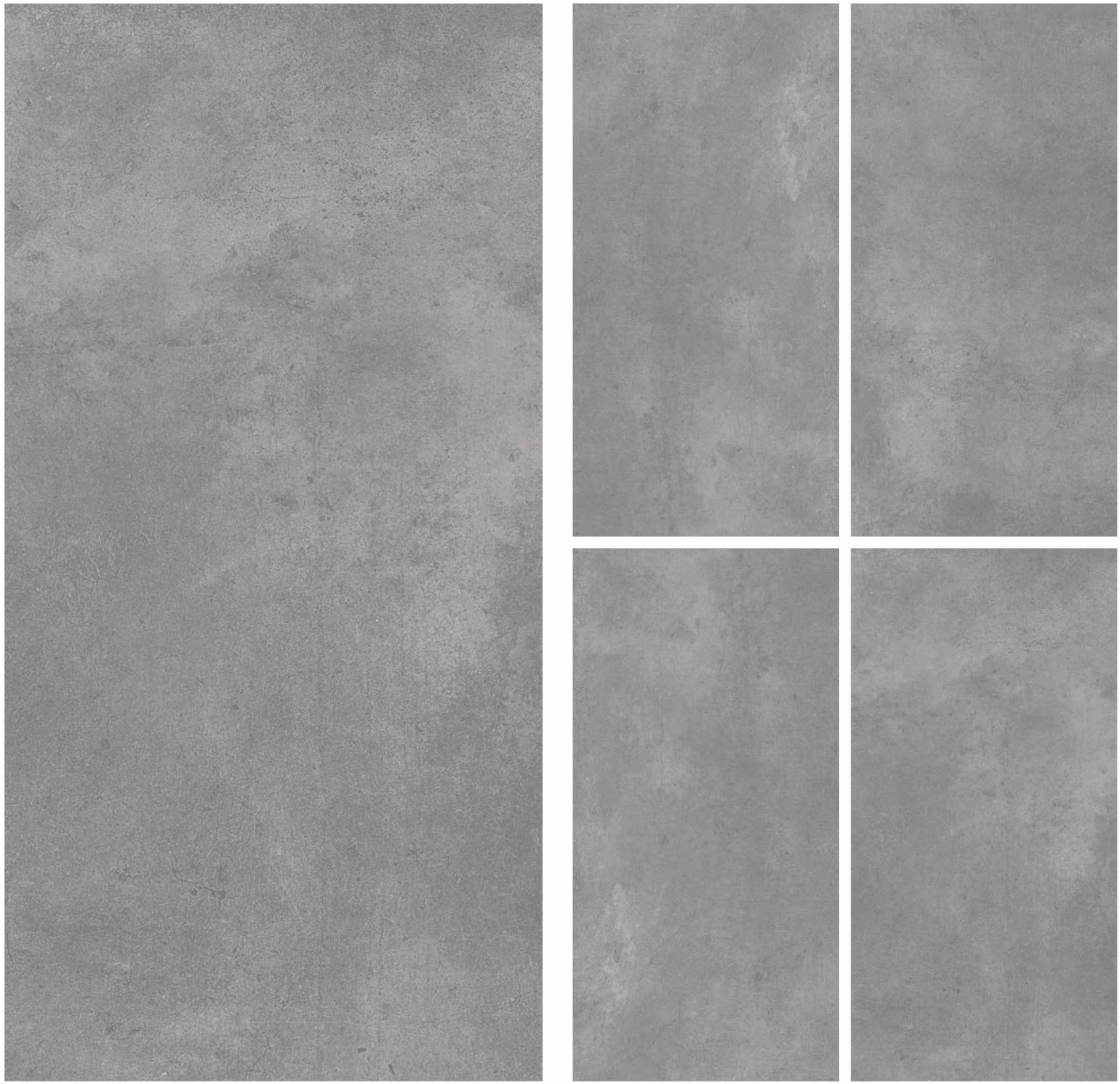
larson
tiles

norman
bianco & grey

norman grey

600x
1200mm

larson
tiles



larson tiles

norman grey

600x 1200mm

Thickness : **9mm**

Finish: **MATT**

- HIGH STRENGTH
- ECO FRIENDLY
- RANDOM DESIGN
- LOW MAINTENANCE

larson
tiles

norman
bianco & grey

Technical Specifications

CHARACTERISTICS	STANDARD AS PER ISO-13006/EN14411 GROUP BIA	OUR VALUE OF PGVT	OUR VALUE OF GVT	TEST METHOD
REGULATORY PROPERTIES				
Deviation in length & width	±0.5 %	±0.1 %	±0.1 %	ISO-10545-2
Deviation in thickness	±5.0 %	±4.0 %	±4.0 %	ISO-10545-2
Straightness in side	±0.5 %	±0.1 %	±0.1 %	ISO-10545-2
Rectangularity	±0.6 %	±0.1 %	±0.1 %	ISO-10545-2
Surface flatness	±0.5 %	±0.2 %	±0.2 %	ISO-10545-2
Color difference	Unaltered	No change	No change	ISO-10545-16
Glossiness	As per mfg.	Min. 90%	Min. 4%	GLOSSOMETER
SURFACE MECHANICAL PROPERTIES				
Water absorption	< 0.50 %	< 0.05 %	< 0.05 %	ISO-10545-3
Apparent density	> 2.0 g/cc	> 2.10 g/cc	> 2.10 g/cc	DIN 51082
MASSIVE MECHANICAL PROPERTIES				
Modulus of rupture	Min. 35 N/mm^2	Min. 40 N/mm^2	Min. 40 N/mm^2	ISO-10545-4
Breaking strength	Min. 1300 N	Min. 2000 N	Min. 2000 N	ISO-10545-4
Impact resistance	as per mfg.	Min. 0.55	Min. 0.55	ISO-10545-5
SURFACE MECHANICAL PROPERTIES				
Surface abrasion resistance	as per mfg.	Min. Class-3	Min. Class-4	ISO-10545-7
MOH's hardness	as per mfg.	Min. 4	Min. 5	EN 101
THERMO HYDROMETRIC PROPERTIES				
Frost resistance	No damage	No damage	No damage	ISO-10545-12
Thermal shock resistance	No damage	No damage	No damage	ISO-10545-9
Moisture expansion	Nil	Nil	Nil	ISO-10545-10
Thermal expansion (COE)	Max. $9.0x10^{-6}$	Max. $6.5x10^{-6}$	Max. $6.5x10^{-6}$	ISO-10545-8
Crazing resistance	as per mfg.	Min. 10 Cycle	Min. 10 Cycle	ISO-10545-11
CHEMICAL PROPERTIES				
Chemical resistance	No damage	No damage	No damage	ISO-10545-13
Stain resistance	Resist ant	Resistant	Resistant	ISO-10545-14
SAFETY PROPERTIES				
Slip resistance	as per mfg.	> 0.40	> 0.40	ISO-10545-17
Fire resistance	as per mfg.	Fireproof	Fireproof	N. A.
Lead & Cadmium given off by glazed tiles	as per mfg.	Doesn't yield Pb & Cd	Doesn't yield Pb & Cd	ISO-10545-15

Packing Details

Sr. No.	Size	Thickness (approx*)	Pieces / Box	Area / Box (approx*)	Wt. Kg. (approx*)
1	600x1200 mm	9mm	2pcs.	1.44 sq. mtr.	29

Cutting Specifications

Cutting with disk

In order to do a correct cutting into one slab 12mm (1/2") it is recommended the use of segmented cutting disks and specifications as described below.

Disk diameter	RPM	Cutting speed (m/min)-(feet/min)
300 mm - 12"	2600 rpm	1/2 m/min - 4 feet/min
350 mm - 14"	2300 rpm	1/2 m/min - 4 feet/min
400 mm - 16"	1900 rpm	1/2 m/min - 4 feet/min

To ensure correct finishes, it is recommended lowering the speed at both ends to 25% 0.3m/min - 1 feet/min. If the cutting also requires beveling it is also recommend to slow the speed in the cutting path to 0.6 m/min - 2feet/min.

In order to avoid stress into the slab, it is imperative the use of cutting surfaces that are perfectly levelled and good disk refrigeration. The disk must have a direct application to the cutting edge with refrigeration liquid or water during all the operation.

For inner cutting, as it has been said before, is mandatory the prior drilling at the corners to ensure a 5mm - 3/16" radius. Therefore, the drill must have 10 mm - 6/16" diameter or more.

Water jet cutting

Before starting the waterjet cutting it is advisable to secure the surface and check the flatness of the slab on the support structure for cutting.

Unless necessary (Ex. to create a cavity), the cut must begin and finish outside the slab, always respecting 50 mm - 2" of perimeter during the cutting to avoid accumulation of stresses. The pressure should not exceed 4000 bar and the linear cutting speed should be around 0.6 m / min - 2 feet / min

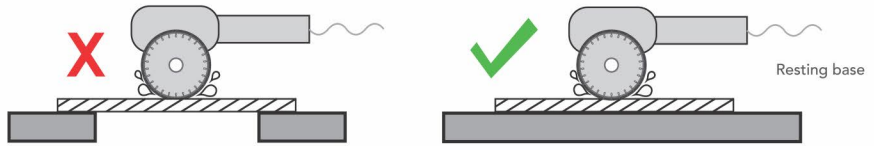
As long as the technical capacity of the cutting machine allows it, it is advisable to finish all the cuts towards the edge of the slab and avoid all the endings at the central area of the slab.

Cutting stresses

In order to minimize the residual stresses in a slab it is advisable, regardless of the cutting method employed, to remove 25 mm - 1" from the total perimeter of the slab.

This not only mitigates the future stresses but also eliminates all possible stress that the material has accumulated during its manufacture, handling or transport until is finally done any operation into the slab.

Cutting



Drilling