

PORCELAIN PAVERS

elevated spaces

LAYR





Layr Systems

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Glen Mills, PA 19342

www.layrsystems.com

RE-QUALIFY SYSTEM

Re-Qualify System is the Layr innovative approach to the Green and Eco-Sustainability.

Re-Qualify System is the new philosophy of Layr, an original approach with the aim to minimize the environmental impact in renovation or new construction project realized by:

- Reducing or fully eliminating the use of adhesives and setting materials;
- Reducing or fully eliminating the use of water;
- Reducing or fully eliminating any waste resulting from the production cycle.

All the above for a more environmental awareness production cycle and consequently, significant results of both energy and economic savings.

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2CM

3CM



LAYR GREEN APPROACH

CO2 REDUCTION

In the last 10 years Layr has reduced its CO2 emissions by no less than 17%. New investments for a further reduction are planned, using techniques for reutilizing heat generated during the production process and creating energy by cogeneration.

GREEN ENERGY

Layr uses Green Energy. All electricity used at Layr plants is obtained from cogeneration and hydroelectric power station.

RECYCLING PROCESS, ZERO WASTE

Layr tiles are produced following a specific process that allows the addition of recycle content to the layer body of the tiles.

This makes possible for Layr to use pre-and-post consumer waste to create a body layer and thus a high quality tile.

Layr tiles and slabs consist of 35% recycled material, depending on the product. The pre-consumer recycling system is 100%. Post-consumer recycling is under study, and some preliminary trials should start shortly.

LOCAL RAW MATERIALS

Layr obtains most of its natural raw materials for tile production in the american territory. All the raw materials come from a radius of 800 Km/ 500 MI from the production plants.

H2O MANAGEMENT AND PURIFICATION

All waste-water is reused through the manufacturing process, this is already 100%. RECYCLED/RECYCLABLE PACKING MATERIAL All our paper packaging materials are made from recycled paper and are further recyclable. Layr uses "Heat treatment certified pallets" that are disinfected by heat and not by poisonous gas.

LIFE CYCLE ASSESSMENT

The Life Cycle Assessment (LCA) is also known as an "eco-balance" or cradle-to-grave-analysis and it's the investigation and evaluation of the environmental impact of a given product or service caused or necessitated by its existence. Layr tiles and slabs have a very long-life cycle. From a technical point of view. Layr tiles and slabs may be used for many hundreds of years without losing their looks or their technical quality.

Innovation and design play a major role at Layr. Layr has developed specific systems to install its Porcelain Pavers without cement, glues, mortar or other setting materials both on floors and walls. It is no longer necessary to grout the joint line between Layr Porcelain Pavers as our products can be dry settled.

The elimination of setting materials allows significant savings in terms of costs of transportation and time for the installation.

The job sites are immediately available after the Layr Porcelain Pavers are dry installed, while the use of traditional setting materials requests time and cure after the collocation. Layr Porcelain Pavers dry installation also significantly reduces the creation of dusts and pollutants. People living in spaces where the Layr Porcelain Pavers are laid, are less prone to allergies and respiratory problems that may be caused by breathing residual dusts and moisture caused by traditional settings methods.

Layr Porcelain are produced with high aesthetic and technical characteristics, adaptable and functional for any outdoor environment.

COMMERCIAL AREAS:

Plazas, roof terraces, decks, swimming-pools, beach resorts, walkways, pathways, events and exhibitions, parking lots, etc ...

RESIDENCIAL AREAS:

Patios, terraces, gazebos, swimming-pools, oriental gardens, stairs, rooftop, car parks, etc ...

INTENDED USES



LEED CREDITS 2CM

Layr 2CM Porcelain Pavers are produced in the U.S., the manufacturing plants are located in Tennessee. The factory is member of the U.S. Green Building Council, which is an organization that promotes buildings that are environmentally responsible, profitable and healthy places to live and work.

RECYCLED CONTENT, MR Credit 4.1 and 4.2 (2 LEED points) Layr USA products are produced with 35% of pre-consumer recycled materials.

REGIONAL MATERIALS, MR Credit 5.2 (2 LEED points are granted if the use of local raw material is equal to 20% of the total value of the raw materials). These Credits are applicable for buildings constructed within 500 miles (804.5 km) from the factory. The 49% of whole Layr USA raw materials are quarried in the 500 miles radius. Therefore Layr USA products contribute for 49% of their value to the LEED Credits of this Section.

HEAT ISLAND EFFECT (Non roof), SS Credit 7.1 (1 LEED point) The great majority of Layr USA products do not contribute to change the energy balance of the environments where installed. They do not produce any Urban Heat Island Effect, thanks to its very good physical properties Solar Reflectance Index SRI a 29.

LOW EMITTING MATERIALS, EC Credit 4.2 (1 LEED point) No traces of VOC (Volatile Organic Compounds) are present in Layr USA tiles (as certified by the external labs in charge of the tests).

INNOVATION IN DESIGN, ID Credit 1.1-1.4 (1-4 LEED points) Layr USA tiles are produced in manufacturing plants which have got the prestigious ecological mark ECOLAB EL (EU Regulation 2002/272/EC).

These plants have the environmental management systems compliant to ISO 14001:2004 and EMAS (European Council Regulation 761/2001).

These environmental standards guarantee excellence in terms of:

- safeguard of the environment;
- continuous improvement of the environmental performances of Layr USA products and manufacturing sites;
- healthcare of Layr USA workers and customers.

WHY CHOOSE LAYR PORCELAIN?

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

More cost effective than grating or grid structures for elevated paving installations

Resistant to damage by frost, snow, ice and heat (-40°F - 210°F)

Removable and reusable

Available in a broad range of colors/styles

Installation on single ply membranes

Massive over life cost savings

Inspectable and removable

Easy to install

Easy to clean stain, chemical and salt resistant

Fade resistant

Slip resistant and quick draining

Virtually no maintenance

Thermal insulation (hot/cold)

The slight gap between gres slabs allows a quick water drainage

Best acoustic

Insulation

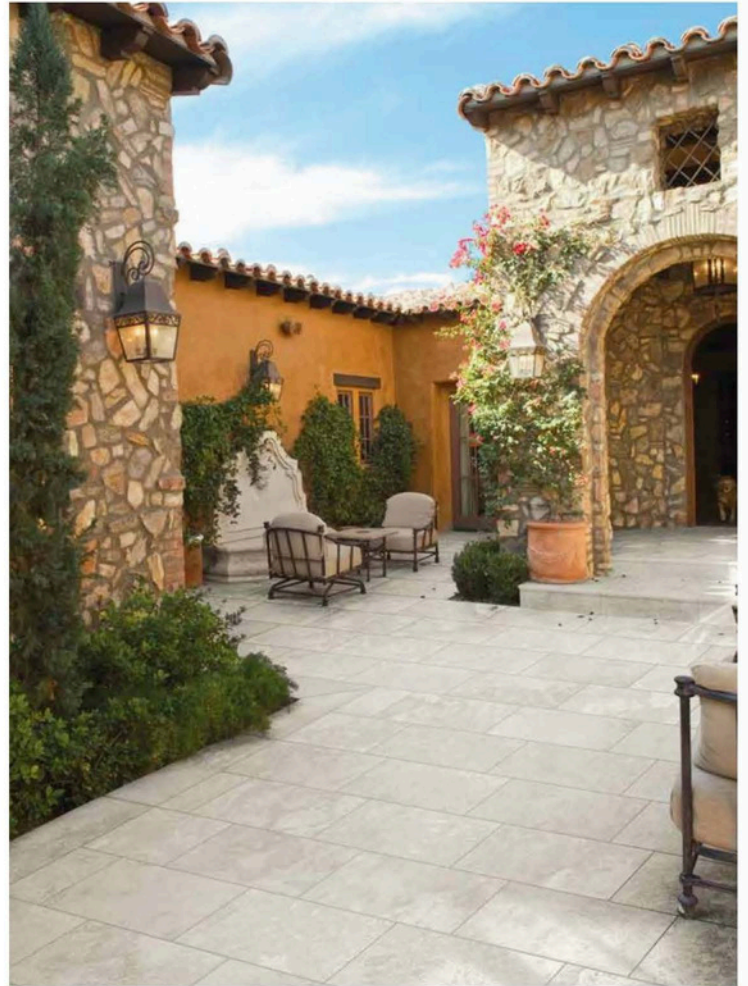
It allows for planar and uniform surfaces with no uneven levels or visible water drainage systems (grids or water discharge pipes).

Less load bearing in attics and on balconies as the last layer of concrete and glue is not necessary



PESCARA SERIES | Linen

CROSS CUT

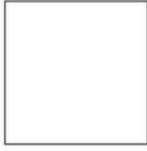


 $\frac{3}{4}"$ thickness

 **V3**
moderate
variation



CSP210
 $23\frac{3}{8}" \times 47\frac{1}{8}"$ rectified
60x120 cm



CSP201
 $23\frac{3}{8}" \times 23\frac{3}{8}"$ rectified
60x60 cm



CSP204
 $11\frac{3}{4}" \times 23\frac{3}{8}"$ rectified
30x60 cm

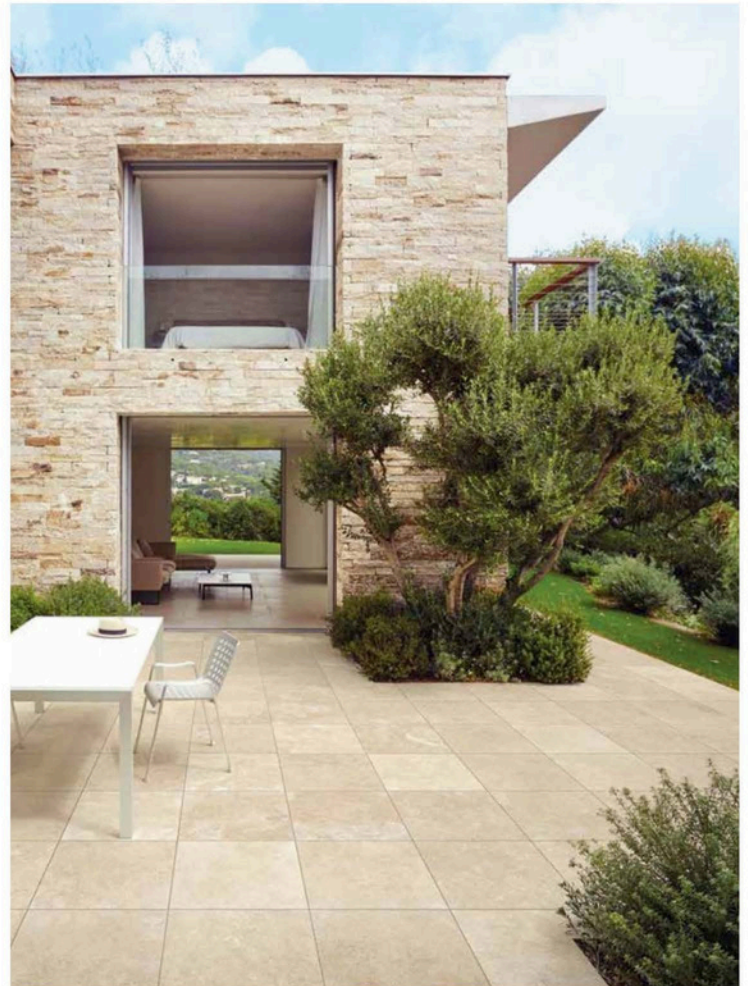
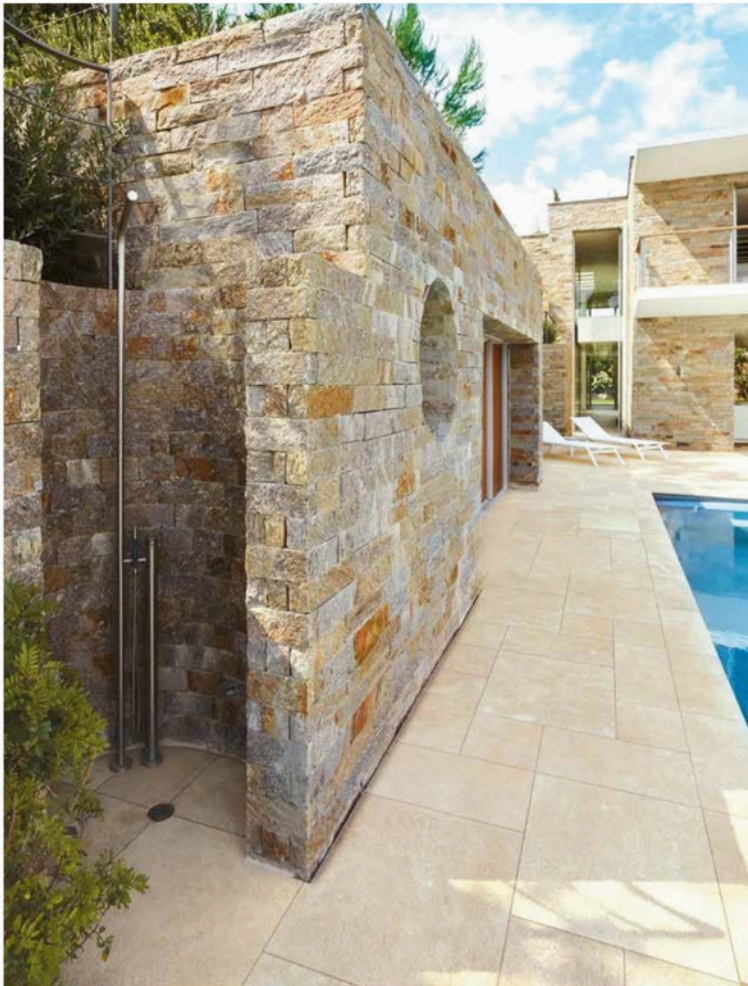


CSP207
 $11\frac{3}{4}" \times 11\frac{3}{4}"$ rectified
30x30 cm



PESCARA SERIES | Cotton Creama

CROSS CUT

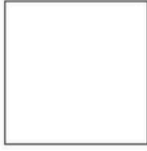


 $\frac{3}{4}$ " thickness

 **V3**
moderate
variation



CSP211
 $23\frac{1}{8}$ "x $47\frac{1}{8}$ " rectified
60x120 cm



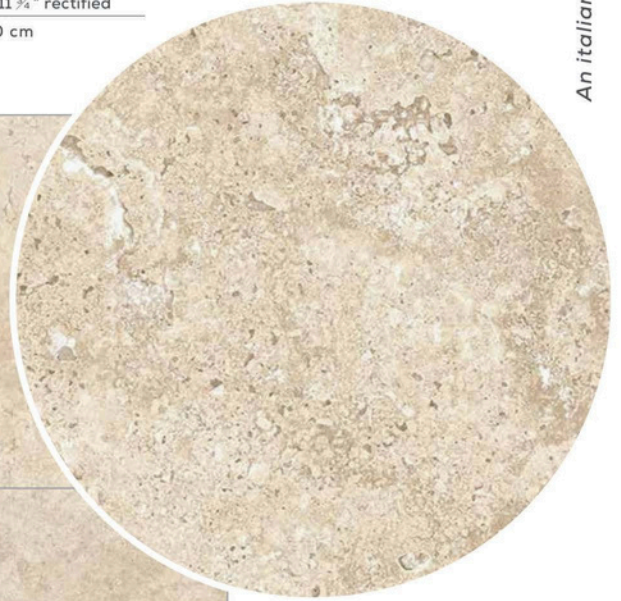
CPS202
 $23\frac{1}{8}$ "x $23\frac{1}{8}$ " rectified
60x60 cm



CSP205
 $11\frac{3}{4}$ "x $23\frac{1}{8}$ " rectified
30x60 cm

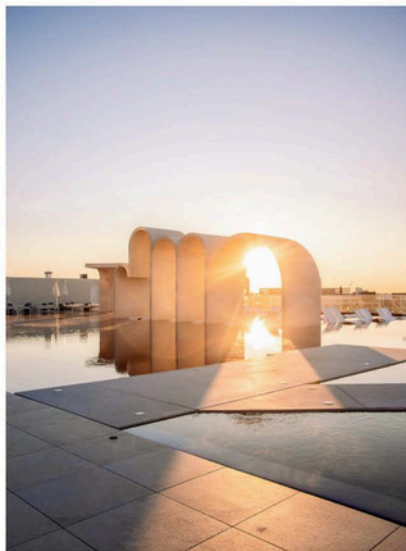
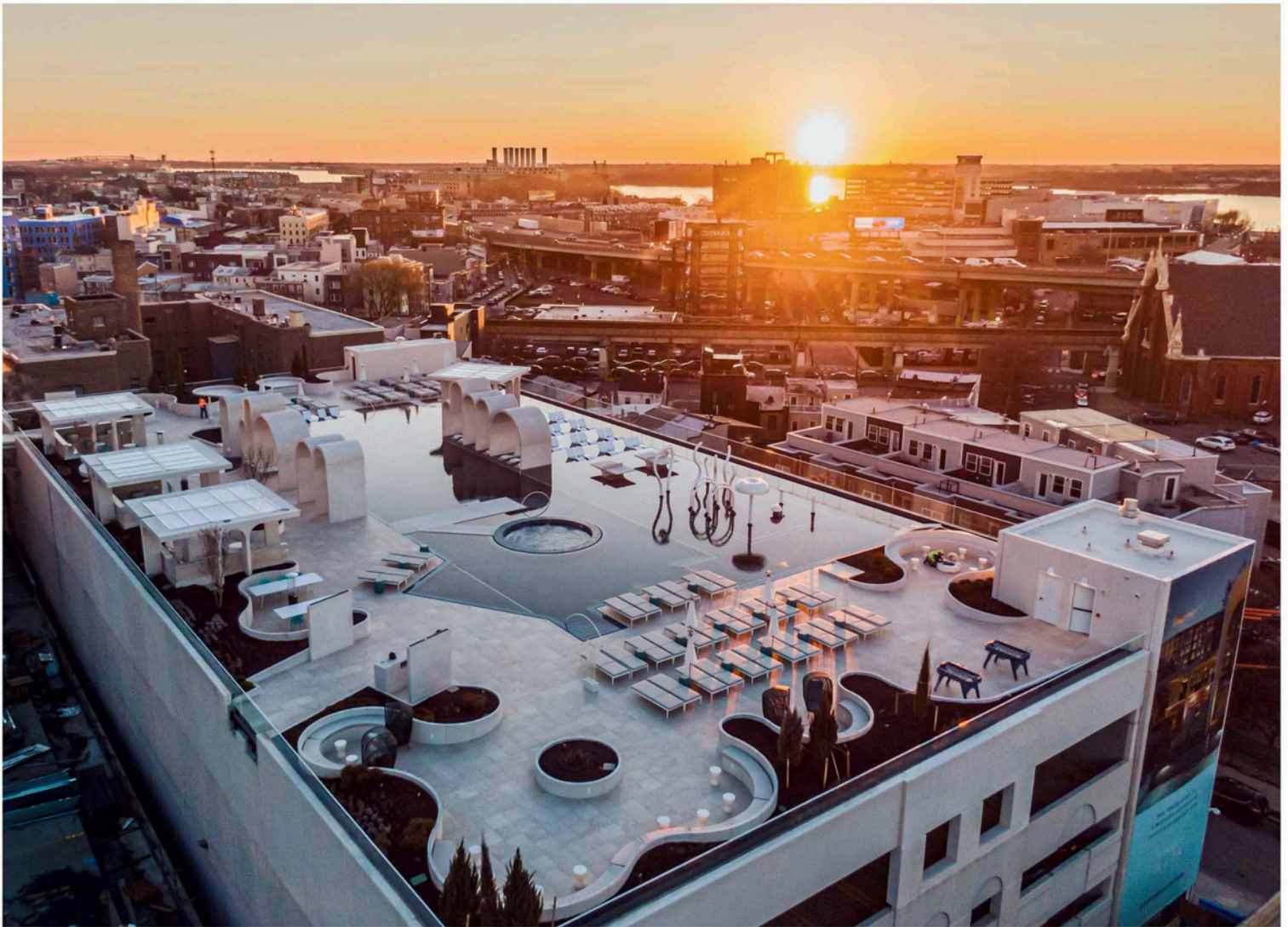


CSP208
 $11\frac{3}{4}$ "x $11\frac{3}{4}$ " rectified
30x30 cm



PESCARA SERIES | Rustic Almond

CROSS CUT

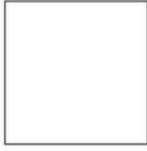


 3/4" thickness

 **V3**
moderate
variation



CSP212
23 1/8" x 47 1/8" rectified
60x120 cm



CSP203
23 1/8" x 23 1/8" rectified
60x60 cm



CSP206
11 3/4" x 23 1/8" rectified
30x60 cm



CSP209
11 3/4" x 11 3/4" rectified
30x30 cm



POMPEII SERIES | Graphite**CROSS CUT**

 $\frac{3}{4}$ " thickness

 **V4**
substantial
variation



CSP310
 $23\frac{1}{8}" \times 47\frac{1}{8}"$ rectified
60x120 cm



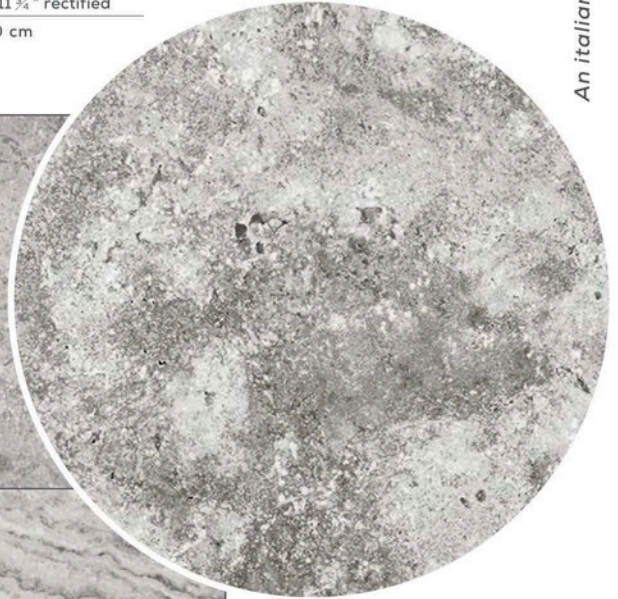
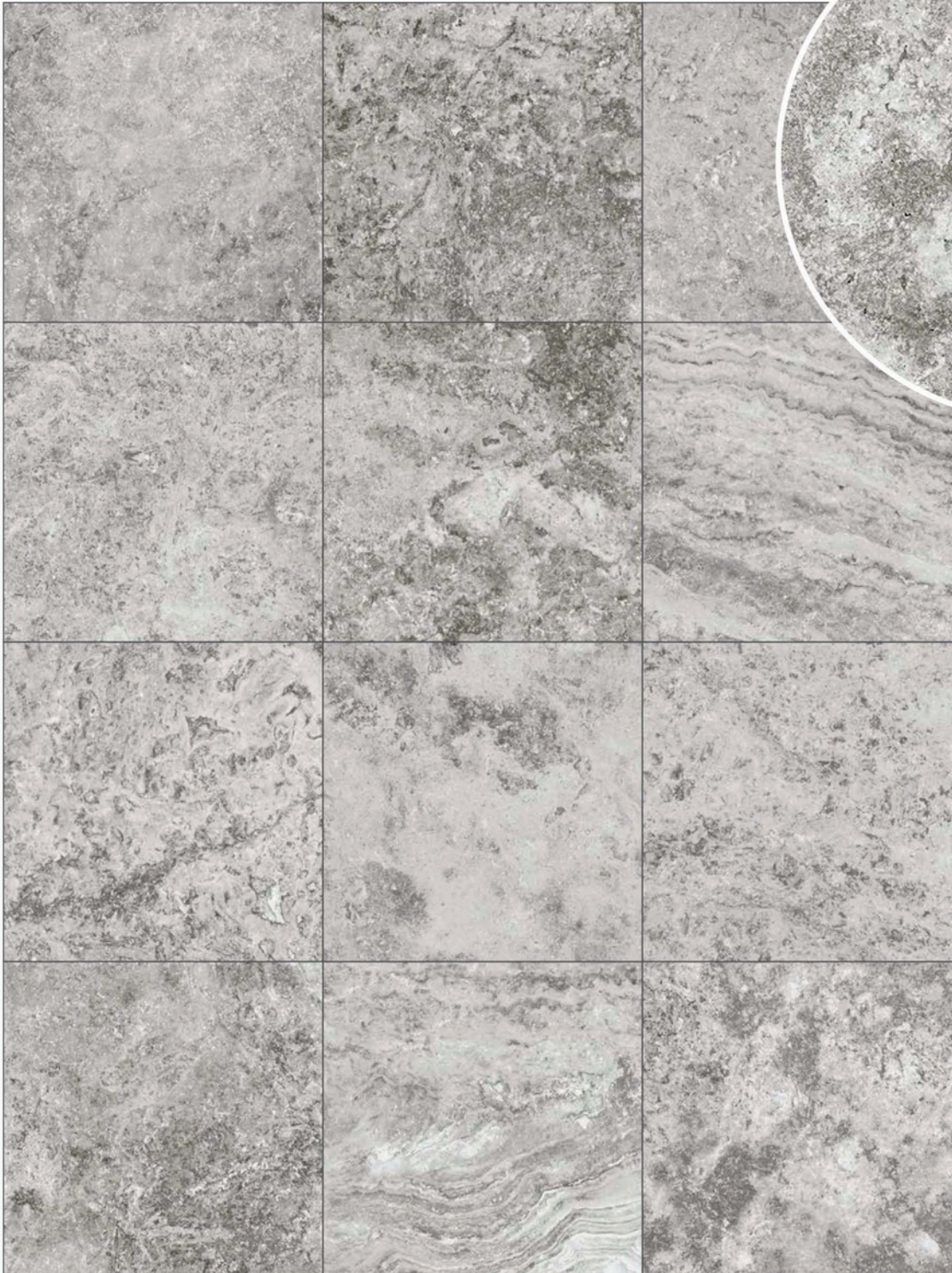
CSP301
 $23\frac{1}{8}" \times 23\frac{1}{8}"$ rectified
60x60 cm

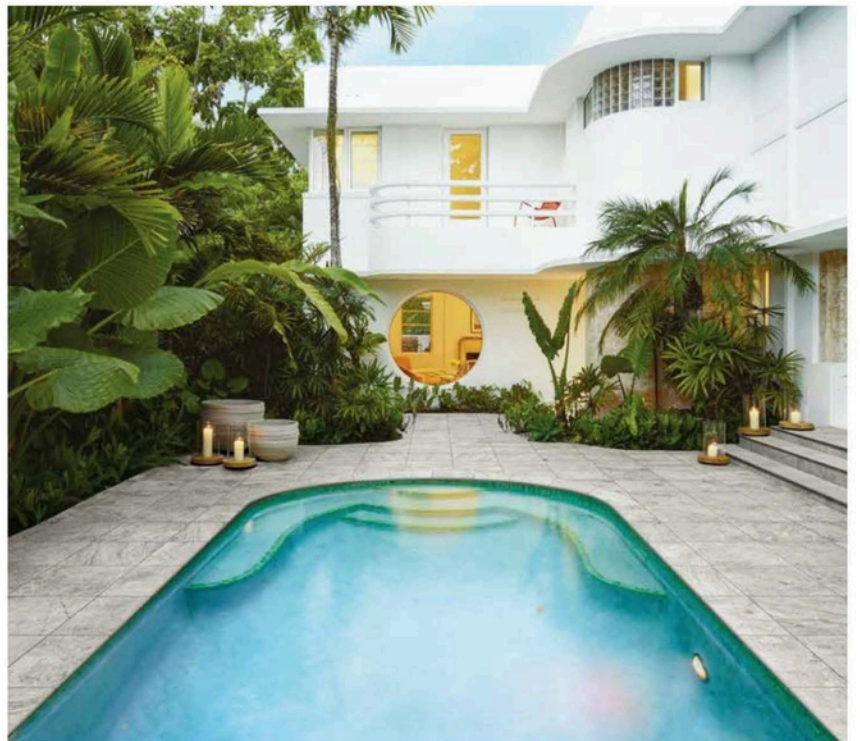


CSP304
 $11\frac{3}{4}" \times 23\frac{1}{8}"$ rectified
30x60 cm



CSP307
 $11\frac{3}{4}" \times 11\frac{3}{4}"$ rectified
30x30 cm



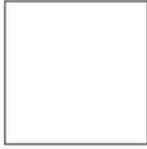
POMPEII SERIES | Dusty Iron**CROSS CUT**

 3/4" thickness

 V4
substantial
variation



CSP311
23 1/4" x 47 1/8" rectified
60x120 cm



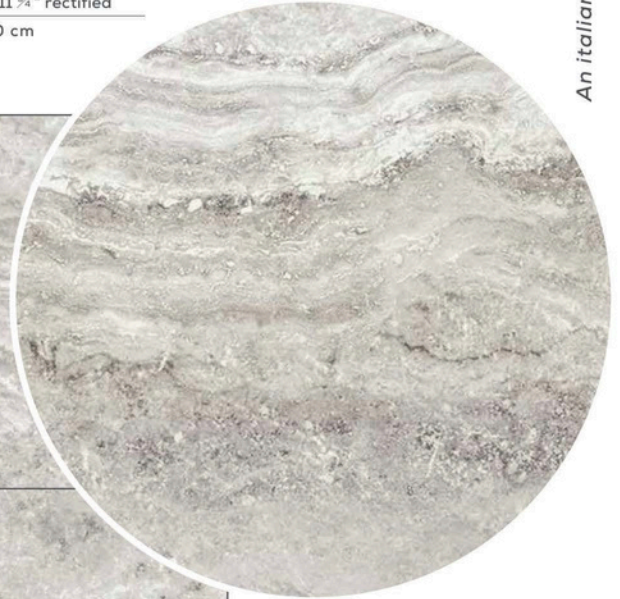
CSP302
23 1/8" x 23 1/8" rectified
60x60 cm

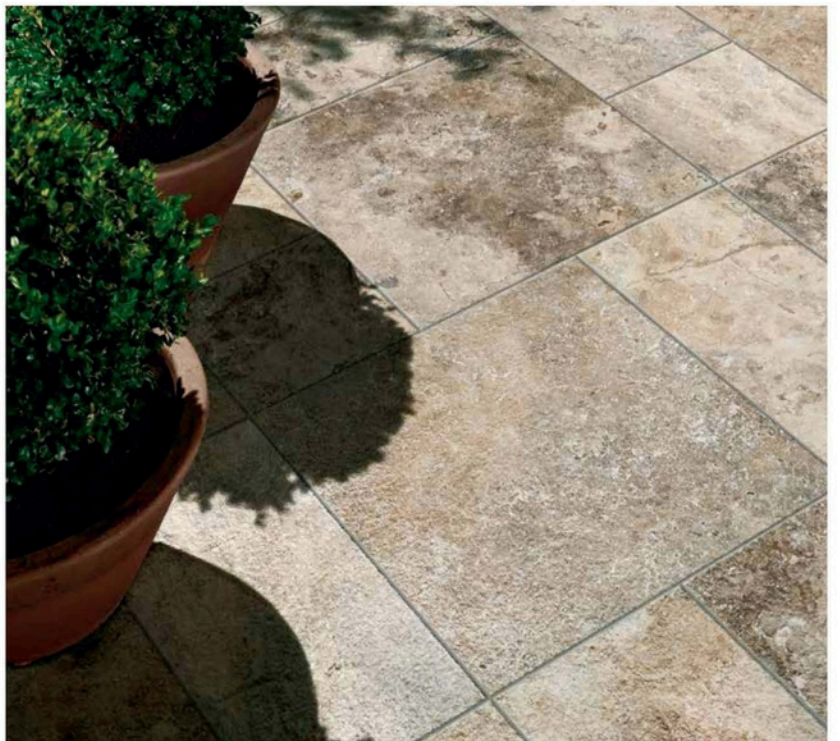
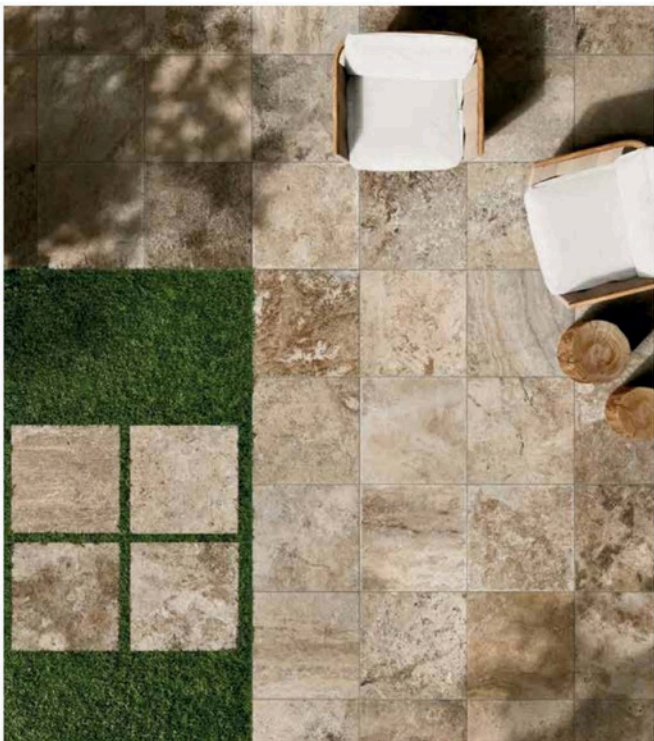


CSP305
11 3/4" x 23 1/8" rectified
30x60 cm



CSP308
11 3/4" x 11 3/4" rectified
30x30 cm



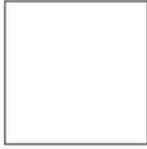
POMPEII SERIES | Desert Sand**CROSS CUT**

 $\frac{3}{4}$ " thickness

 **V4**
substantial
variation



CSP312
 $23\frac{1}{8}$ "x $47\frac{1}{8}$ " rectified
60x120 cm



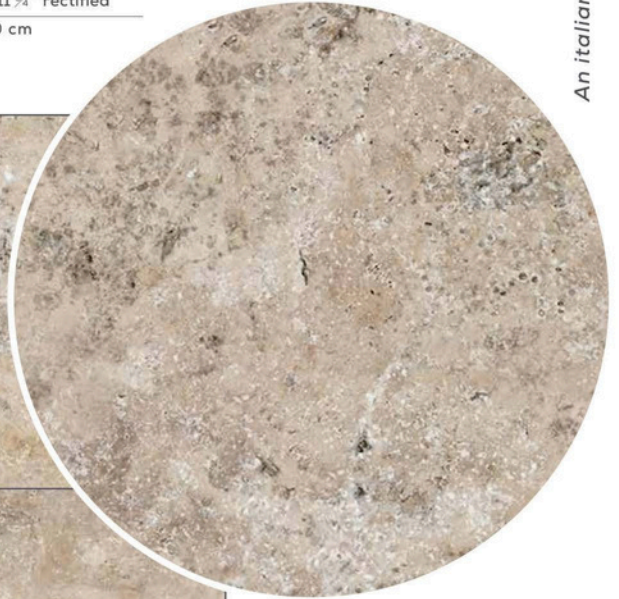
CSP303
 $23\frac{1}{8}$ "x $23\frac{1}{8}$ " rectified
60x60 cm



CSP306
 $11\frac{3}{4}$ "x $23\frac{1}{8}$ " rectified
30x60 cm



CSP309
 $11\frac{3}{4}$ "x $11\frac{3}{4}$ " rectified
30x30 cm



CITYLINE TRAVERTINE | Pacific Pearl

VEIN CUT
ITALIAN

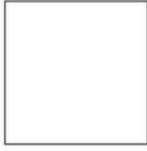


 3/4" thickness

 **V2**
slight
variation



CSP405
23 1/8" x 47 1/8" rectified
60x120 cm



CSP401
23 1/8" x 23 1/8" rectified
60x60 cm



CSP403
11 3/4" x 23 1/8" rectified
30x60 cm



CITYLINE TRAVERTINE | Golden Oat

VEIN CUT
ITALIAN

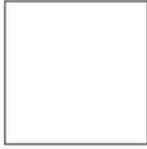


 3/4" thickness

 **V2**
slight
variation



CSP406
23 1/8" x 47 1/8" rectified
60x120 cm



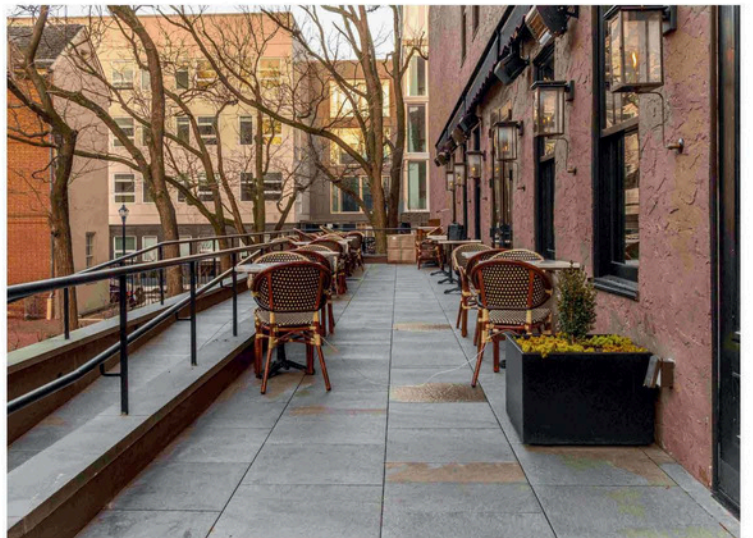
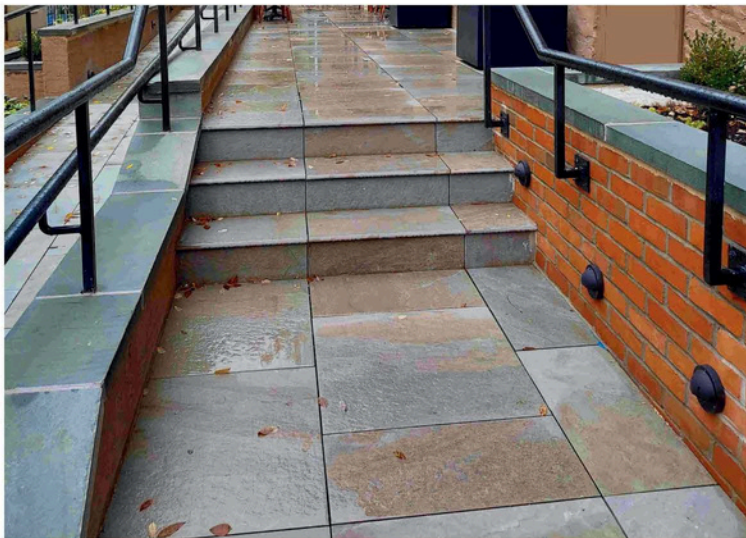
CSP402
23 1/8" x 23 1/8" rectified
60x60 cm



CSP404
11 3/4" x 23 1/8" rectified
30x60 cm



PA BLUESTONE | Full Color



 $\frac{3}{4}$ " thickness

 **V4**
substantial
variation



CSP509
 $23\frac{1}{8}$ "x $47\frac{1}{8}$ " rectified
60x120 cm



CSP501
 $23\frac{1}{8}$ "X $23\frac{1}{8}$ " rectified
60x60 cm



CSP503
 $11\frac{3}{4}$ "X $23\frac{1}{8}$ " rectified
30x60 cm



CSP505
 $11\frac{3}{4}$ "x $11\frac{3}{4}$ " rectified
30x30 cm



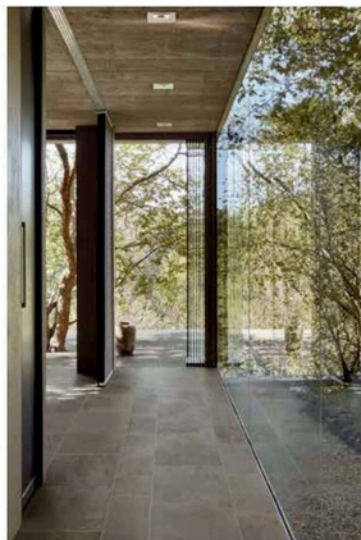
CSP507
 $11\frac{3}{4}$ "x $47\frac{1}{8}$ " rectified
30x120 cm



Cleft
Pattern



PA BLUESTONE | Blue Select



 3/4" thickness

 **V3**
moderate
variation



CSP510
23 3/8" x 47 3/8" rectified
60x120 cm



CSP502
23 3/8" X 23 3/8" rectified
60x60 cm



CSP504
11 3/4" X 23 3/8" rectified
30x60 cm



CSP506
11 3/4" x 11 3/4" rectified
30x30 cm



CSP508
11 3/4" x 47 3/8" rectified
30x120 cm



Thermal
Pattern

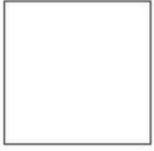


MOUNTAIN SERIES | Fossil



 3/4" thickness

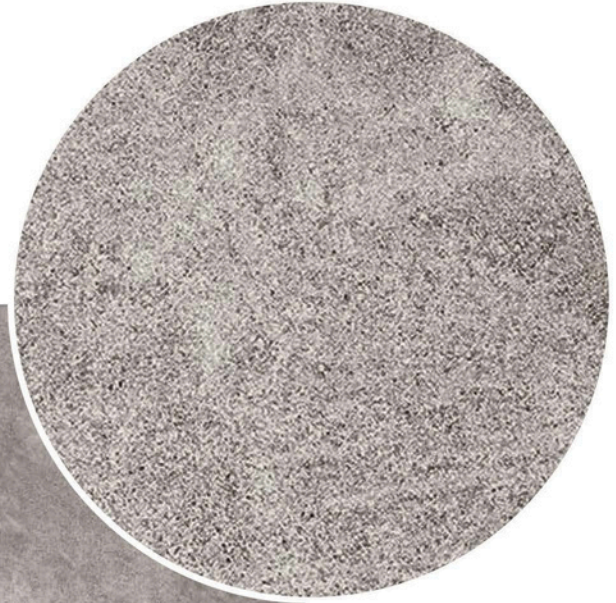
 **V2**
slight
variation



CSP601
23 1/8" X 23 1/8" rectified
60x60 cm



CSP604
11 3/4" X 23 1/8" rectified
30x60 cm

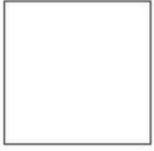


MOUNTAIN SERIES | Summer Wheat



 3/4" thickness

 **V2**
slight
variation



CSP602
23 3/8" X 23 3/8" rectified
60x60 cm



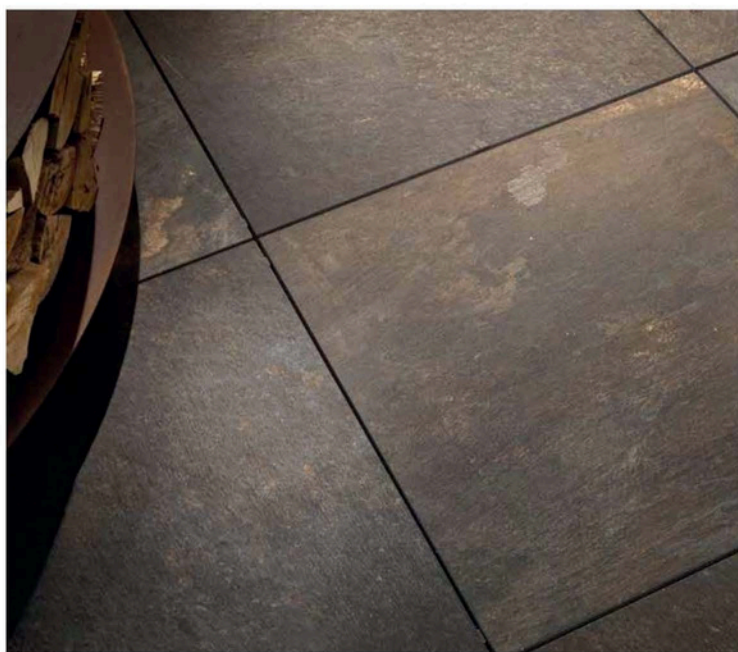
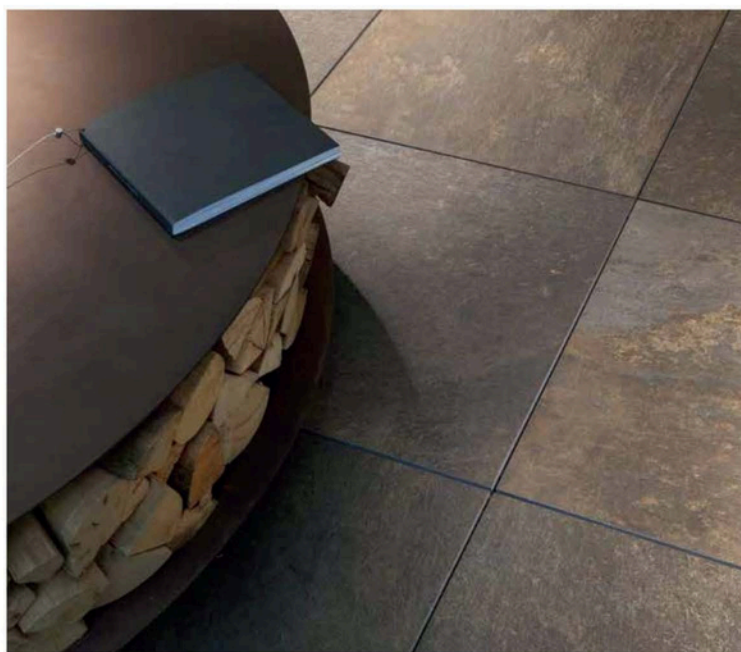
CSP605
11 3/4" X 23 3/8" rectified
30x60 cm



CSP606
11 3/4" x 11 3/4" rectified
30x30 cm



MOUNTAIN SERIES | Rustic Wood

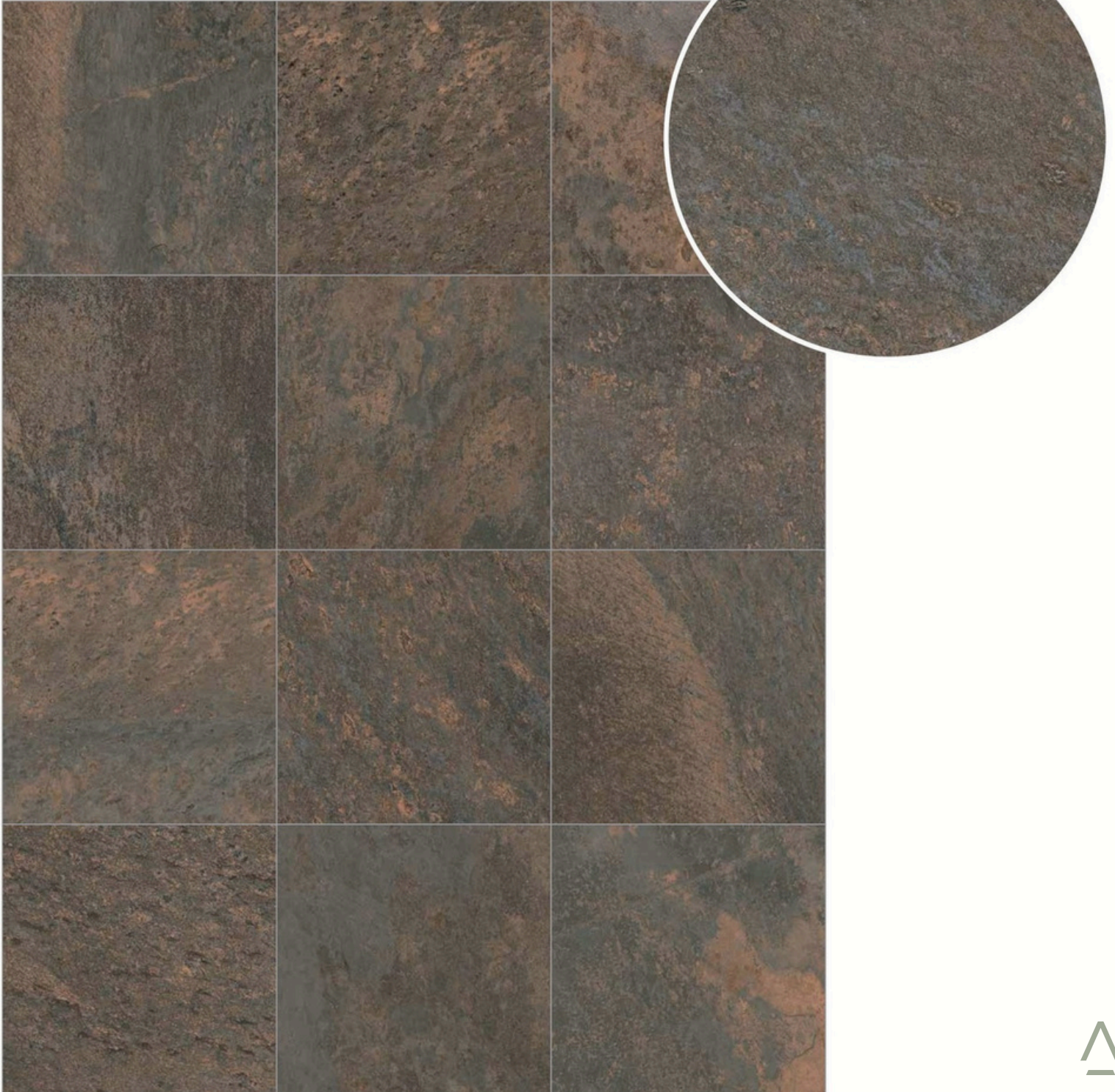


 $\frac{3}{4}$ " thickness

 **V4**
substantial
variation



CSP603
 $23\frac{3}{8}$ " X $23\frac{3}{8}$ " rectified
60x60 cm



An Italian porcelain paver made in USA



STORM SERIES | Mist

 $\frac{3}{4}$ " thickness

 **V3**
moderate
variation



CSP701
 $23\frac{3}{8}$ " X $23\frac{3}{8}$ " rectified
60x60 cm



CSP705
 $11\frac{3}{4}$ " X $23\frac{3}{8}$ " rectified
30x60 cm



STORM SERIES | Dust

 3/4" thickness

 **V3**
moderate
variation



CSP702
23 1/4" X 23 1/4" rectified
60x60 cm



CSP706
11 3/4" X 23 1/4" rectified
30x60 cm



STORM SERIES | Cloud Grey

 $\frac{3}{4}"$ thickness

 **V3**
moderate
variation



CSP703
 $23\frac{1}{2}" \times 23\frac{1}{2}"$ rectified
60x60 cm



An Italian porcelain paver made in USA



STORM SERIES | Smoke



 $\frac{3}{4}$ " thickness

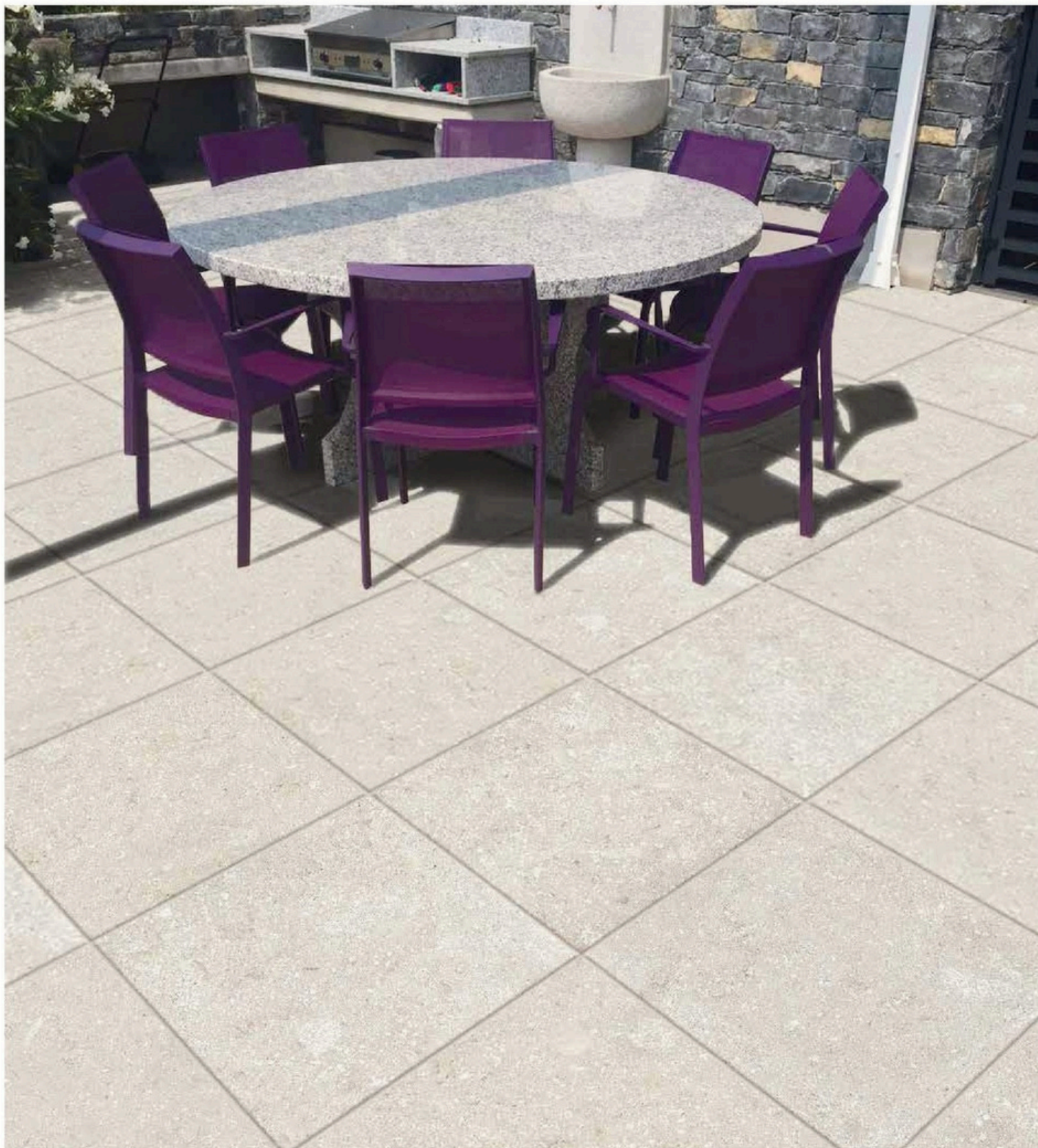
 **V3**
moderate
variation



CSP704
23 $\frac{1}{8}$ " X 23 $\frac{1}{8}$ " rectified
60x60 cm



ISLAND STONE | Papaya



 3/4" thickness

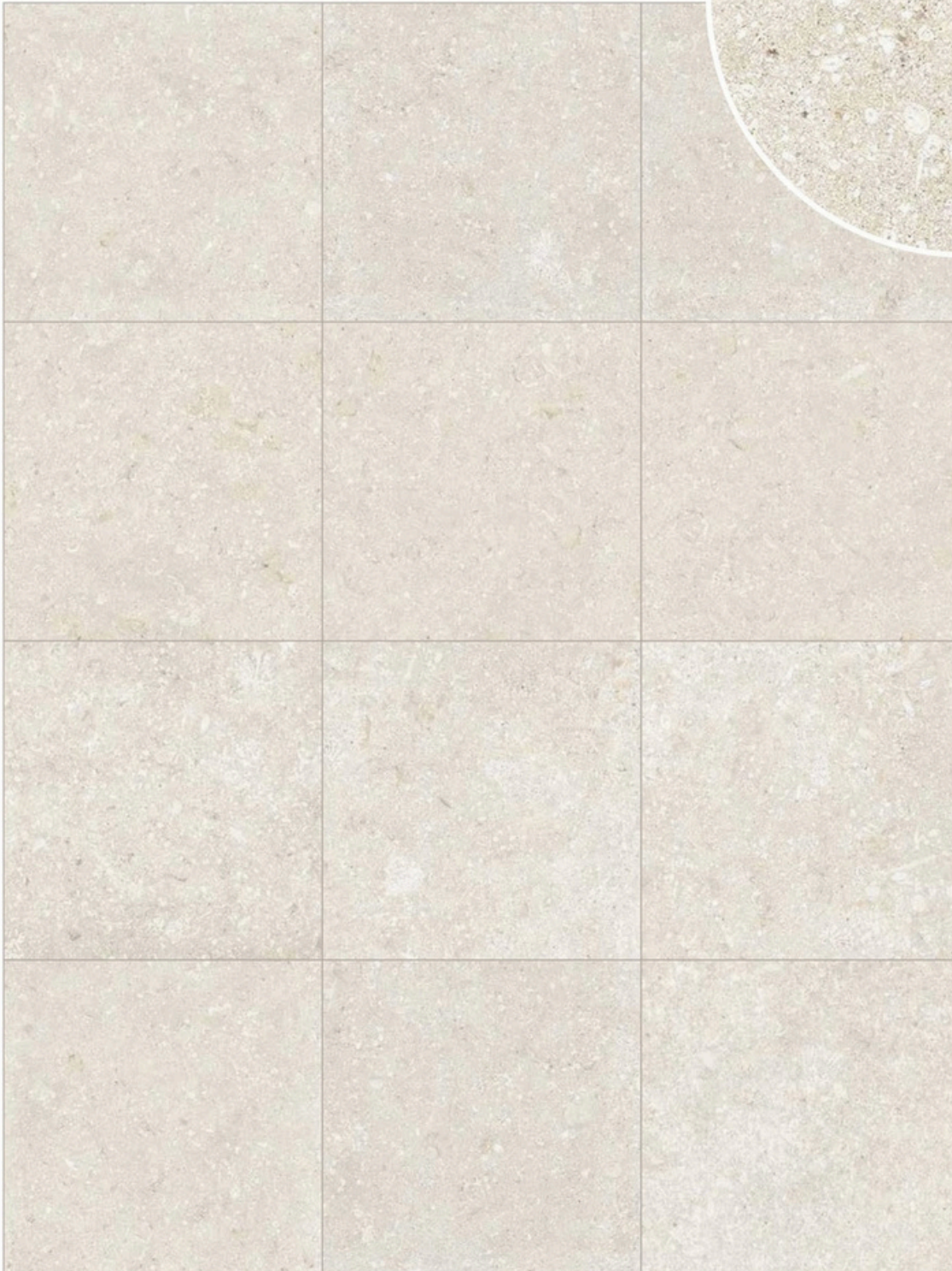
 V2
slight
variation



CSP801
23 1/2" X 23 1/2" rectified
60x60 cm



CSP804
11 3/4" X 23 1/2" rectified
30x60 cm



ISLAND STONE | Jade



 $\frac{3}{4}$ " thickness

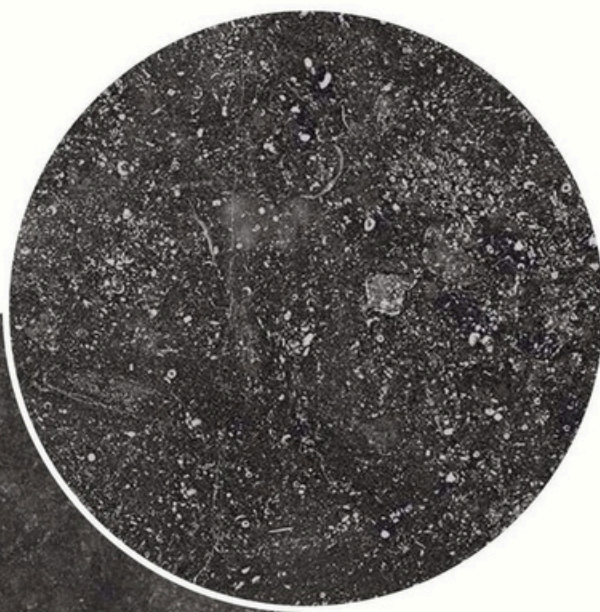
 **V2**
slight
variation



CSP802
 $23\frac{1}{4}$ " X $23\frac{1}{4}$ " rectified
60x60 cm



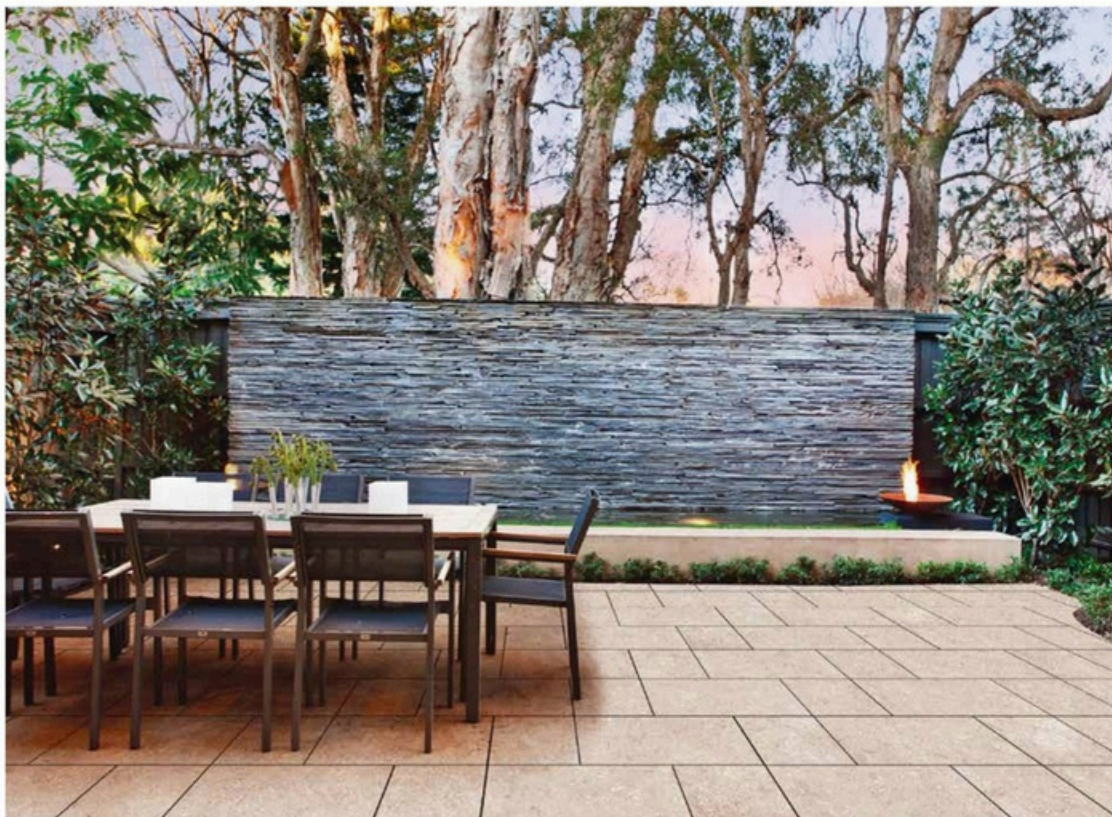
CSP805
 $11\frac{3}{4}$ " X $23\frac{1}{4}$ " rectified
30x60 cm



An Italian porcelain paver made in USA



ISLAND STONE | Blond Mocha



 $\frac{3}{4}$ " thickness

 **V2**
slight
variation



CSP803
 $23\frac{1}{8}$ " X $23\frac{1}{8}$ " rectified
60x60 cm



CSP806
 $11\frac{1}{4}$ " X $23\frac{1}{8}$ " rectified
30x60 cm



RUST

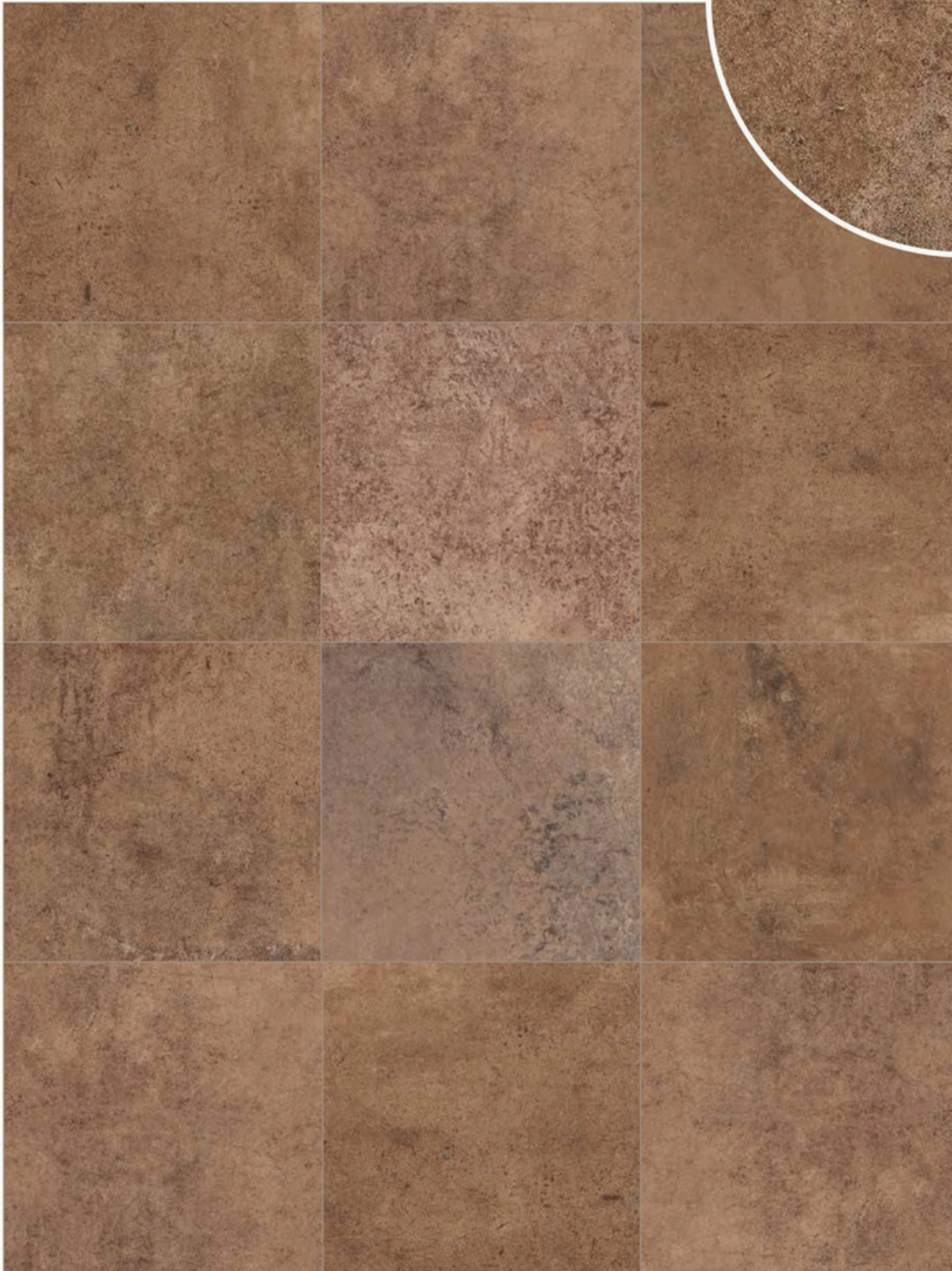


 3/4" thickness

 **V3**
moderate
variation



CSP901
23 1/2" X 23 1/2" rectified
60x60 cm



An Italian porcelain paver made in USA



PHILADELPHIA SERIES | Ivory



 $\frac{3}{4}"$ thickness

 **V1**
uniform
appearance



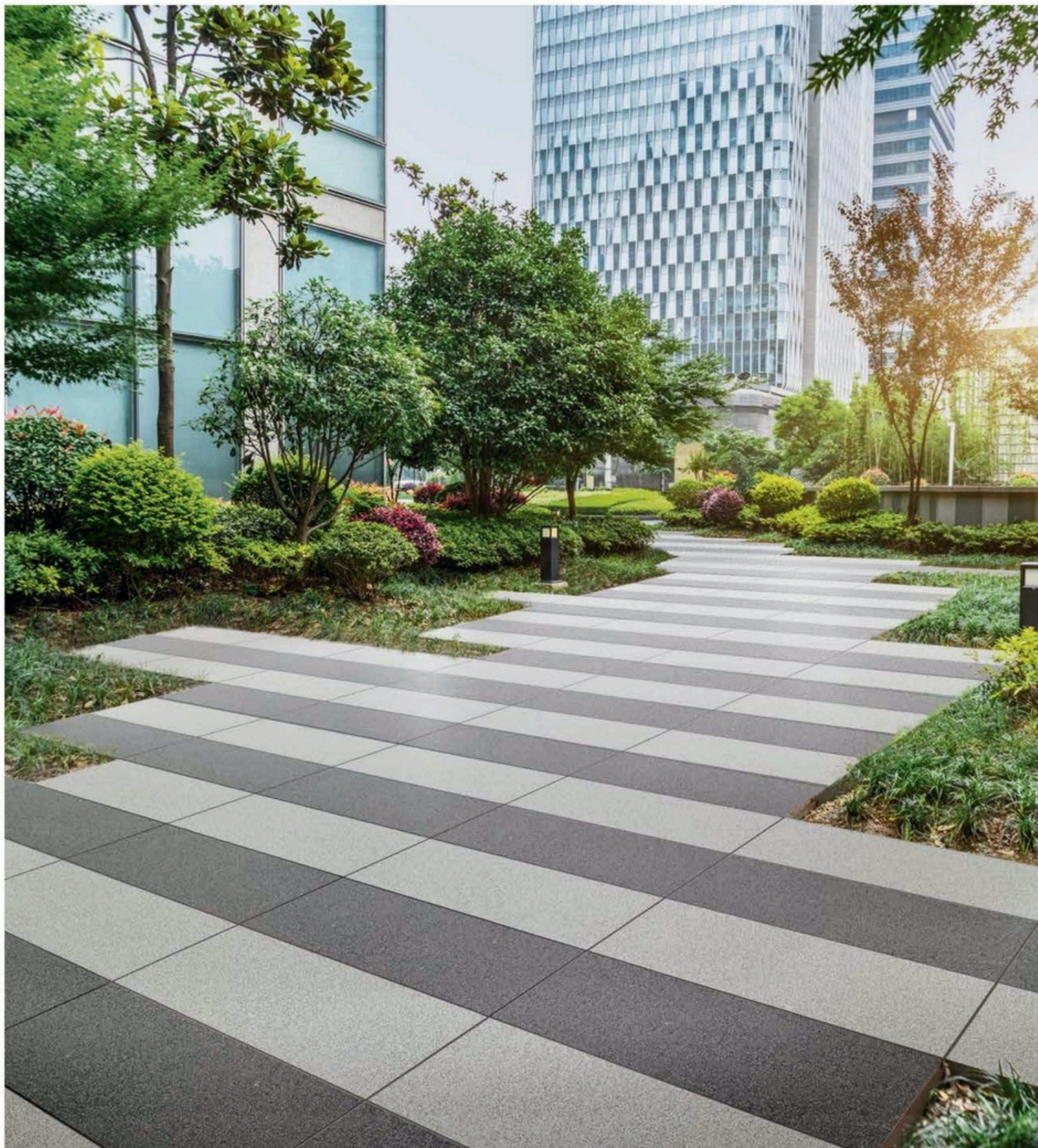
CSP1001
 $23\frac{1}{2}" \times 23\frac{1}{2}"$ rectified
60x60 cm



CSP1007
 $11\frac{3}{4}" \times 23\frac{1}{2}"$ rectified
30x60 cm



PHILADELPHIA SERIES | Platinum



 3/4" thickness

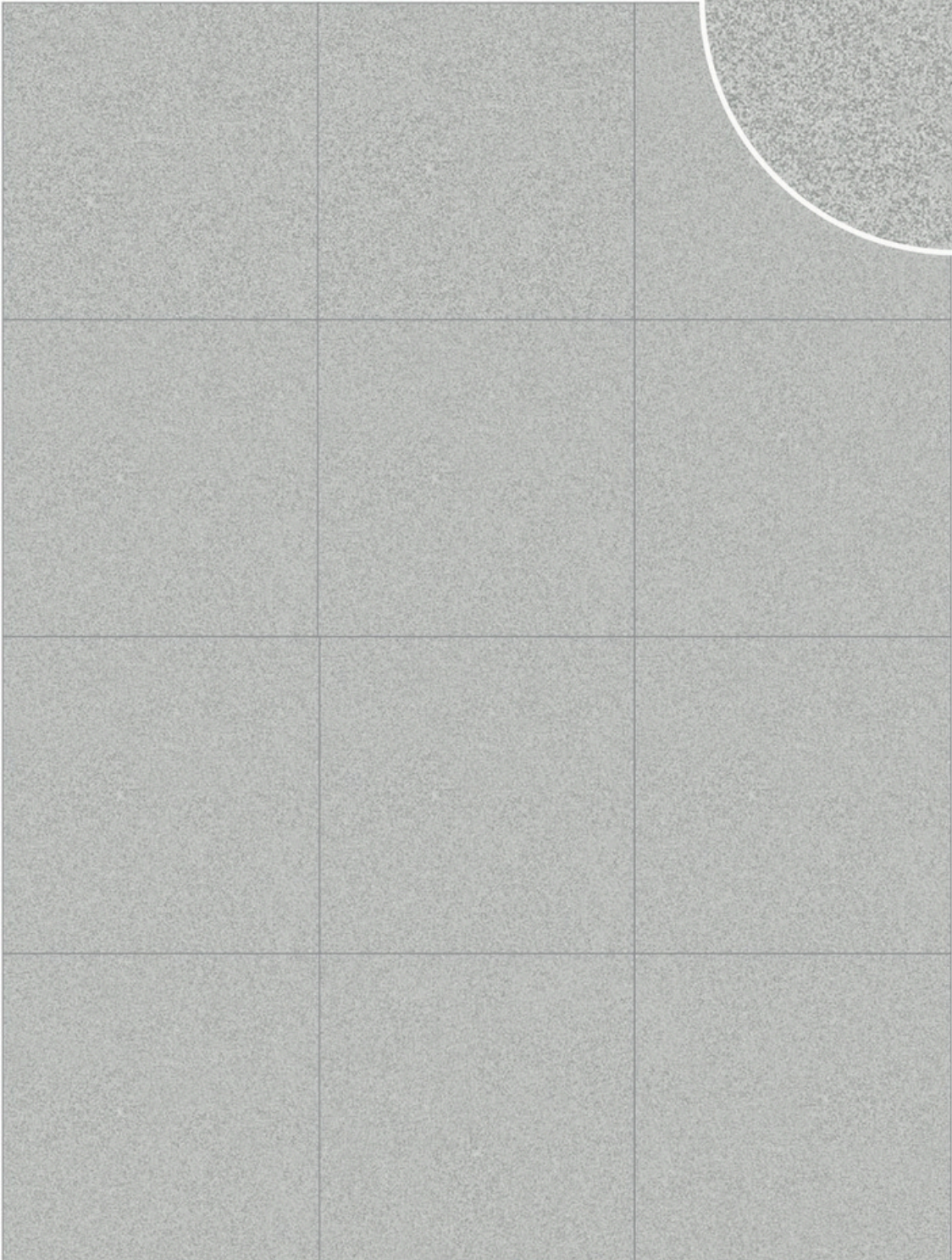
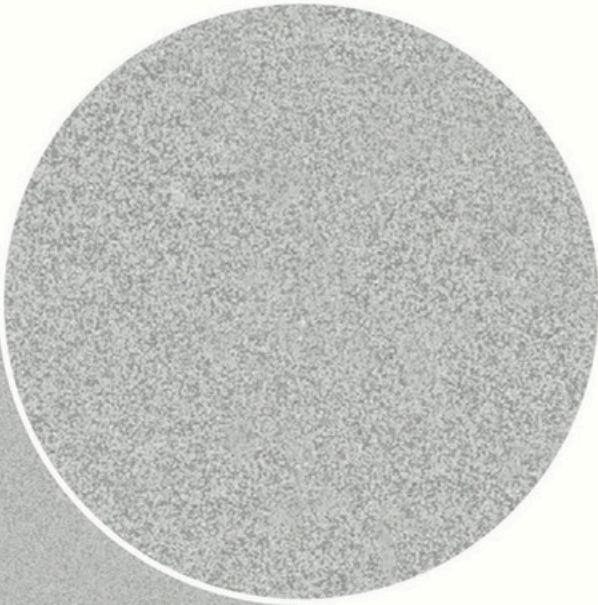
 **V1**
uniform
appearance



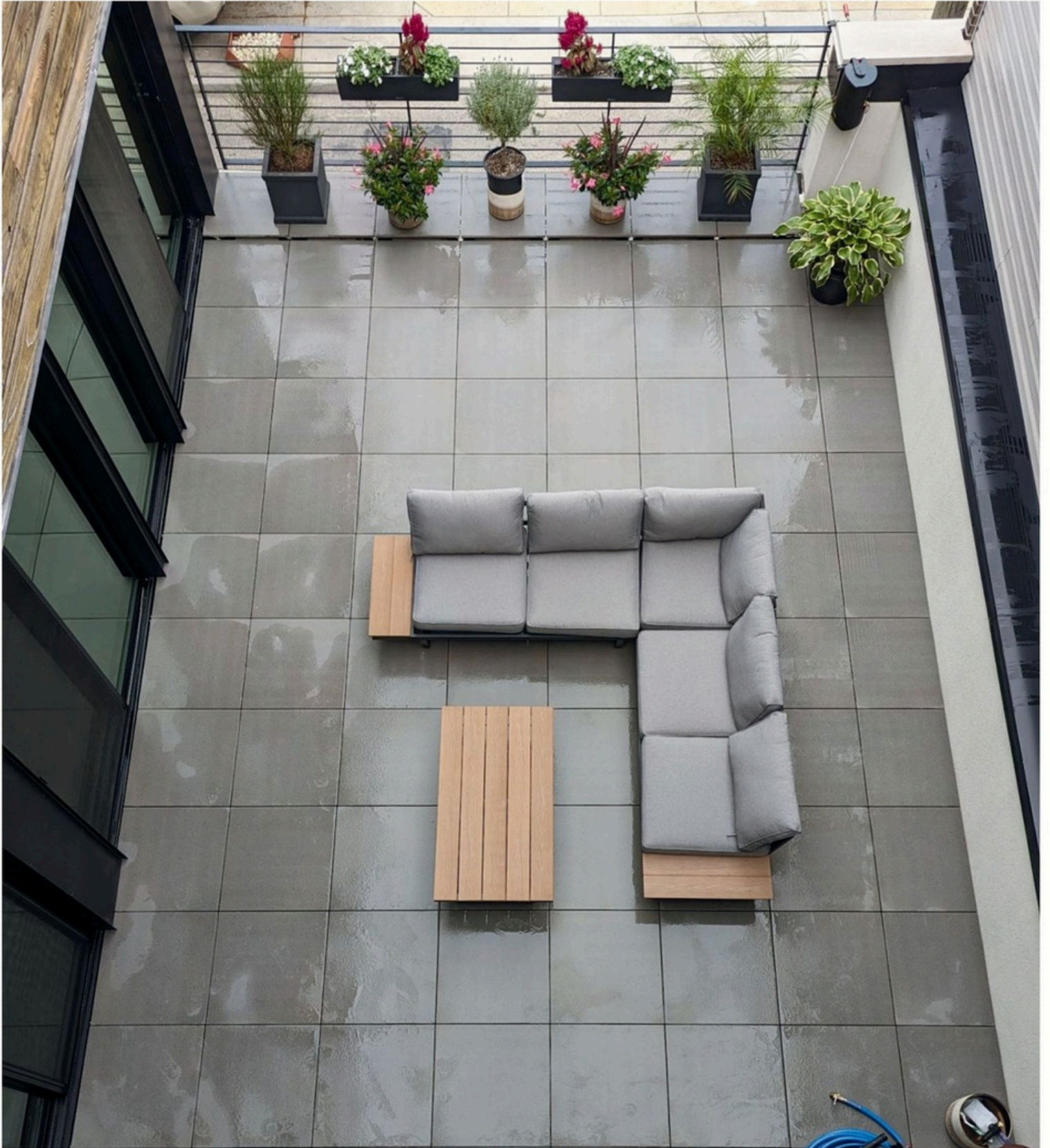
CSP1002
23 3/5" X 23 3/5" rectified
60x60 cm



CSP1008
11 3/4" X 23 3/5" rectified
30x60 cm



PHILADELPHIA SERIES | Midnight Grey



 $\frac{3}{4}"$ thickness

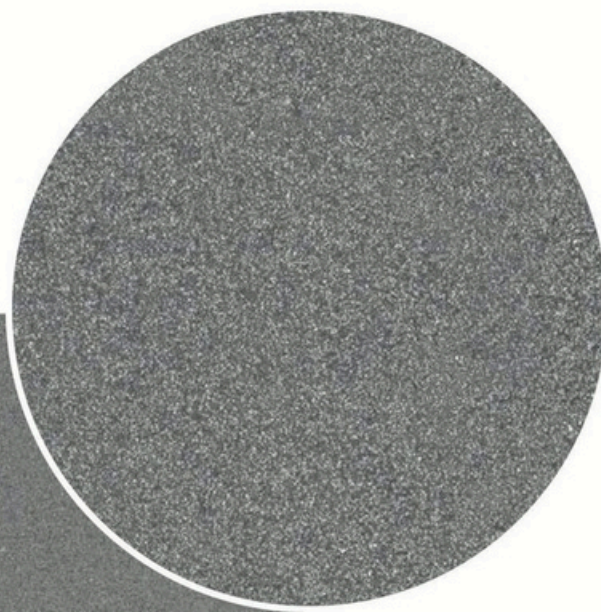
 **V1**
uniform
appearance



CSP1003
 $23\frac{3}{8}" \times 23\frac{3}{8}"$ rectified
60x60 cm



CSP1009
 $11\frac{3}{4}" \times 23\frac{3}{8}"$ rectified
30x60 cm



PHILADELPHIA SERIES | Khaki Fawn



 3/4" thickness

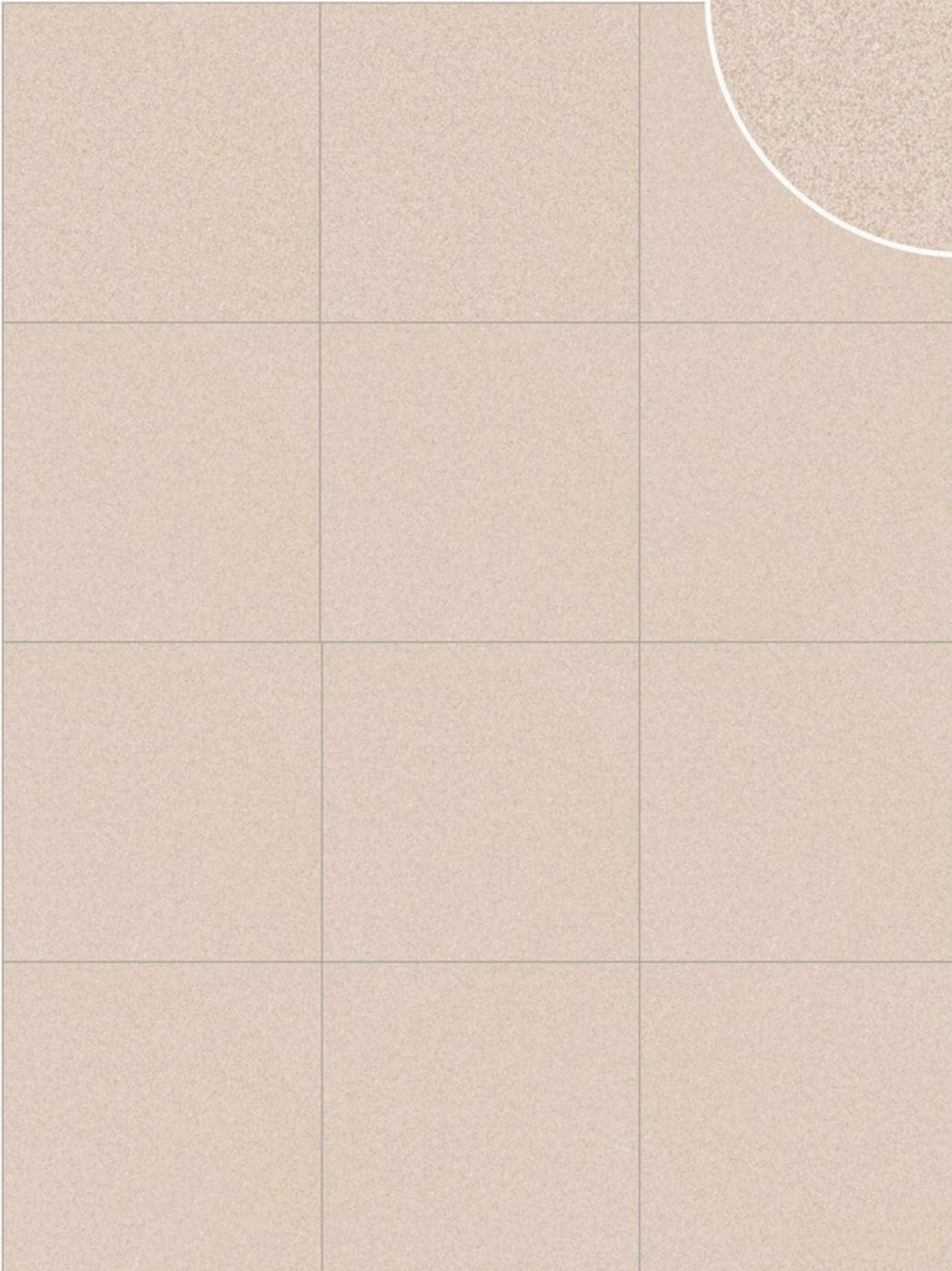
 **V1**
uniform
appearance



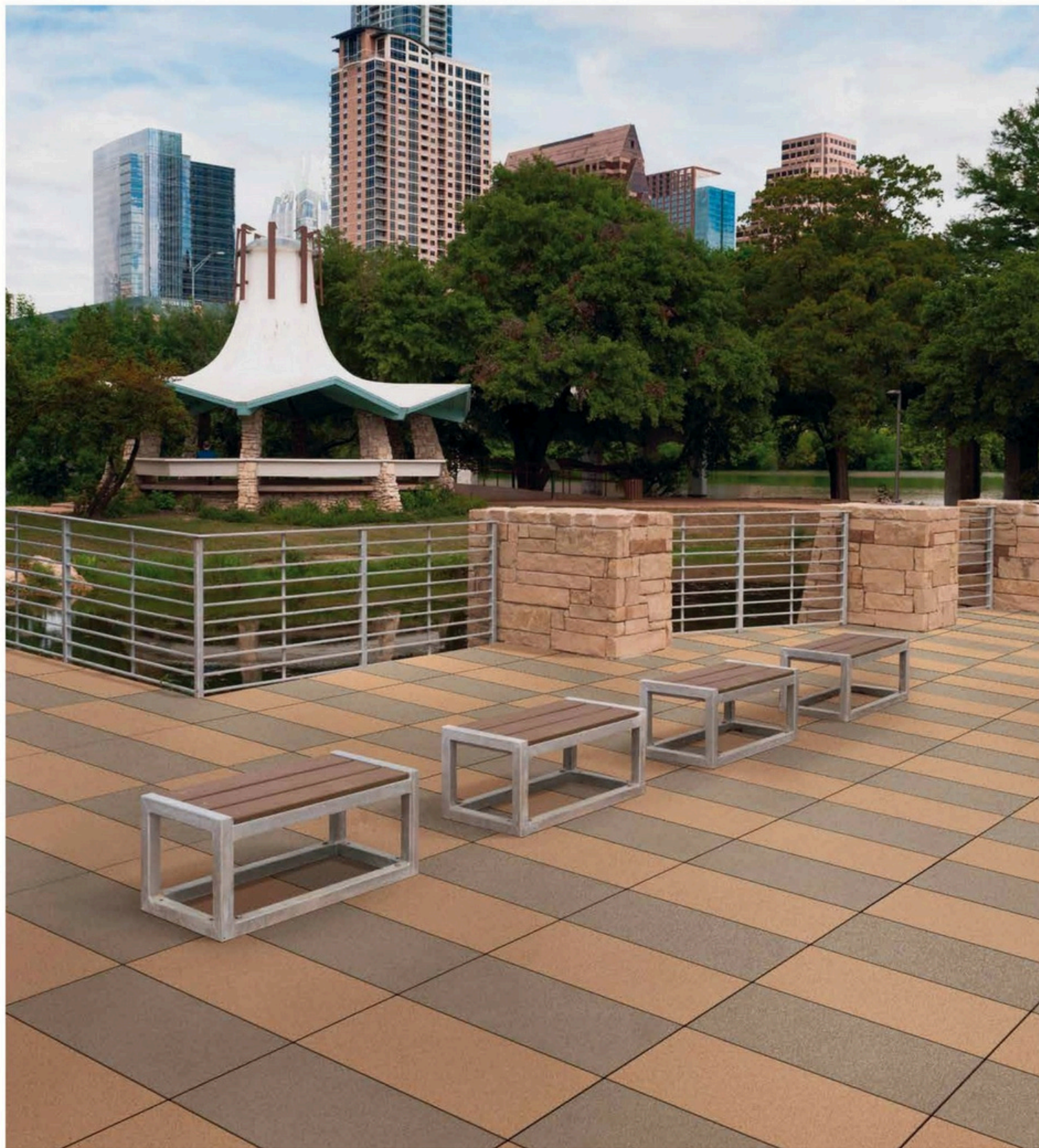
CSP1004
23 3/5" X 23 3/5" rectified
60x60 cm



CSP1010
11 3/4" X 23 3/5" rectified
30x60 cm



PHILADELPHIA SERIES | Burly Brass



 3/4" thickness

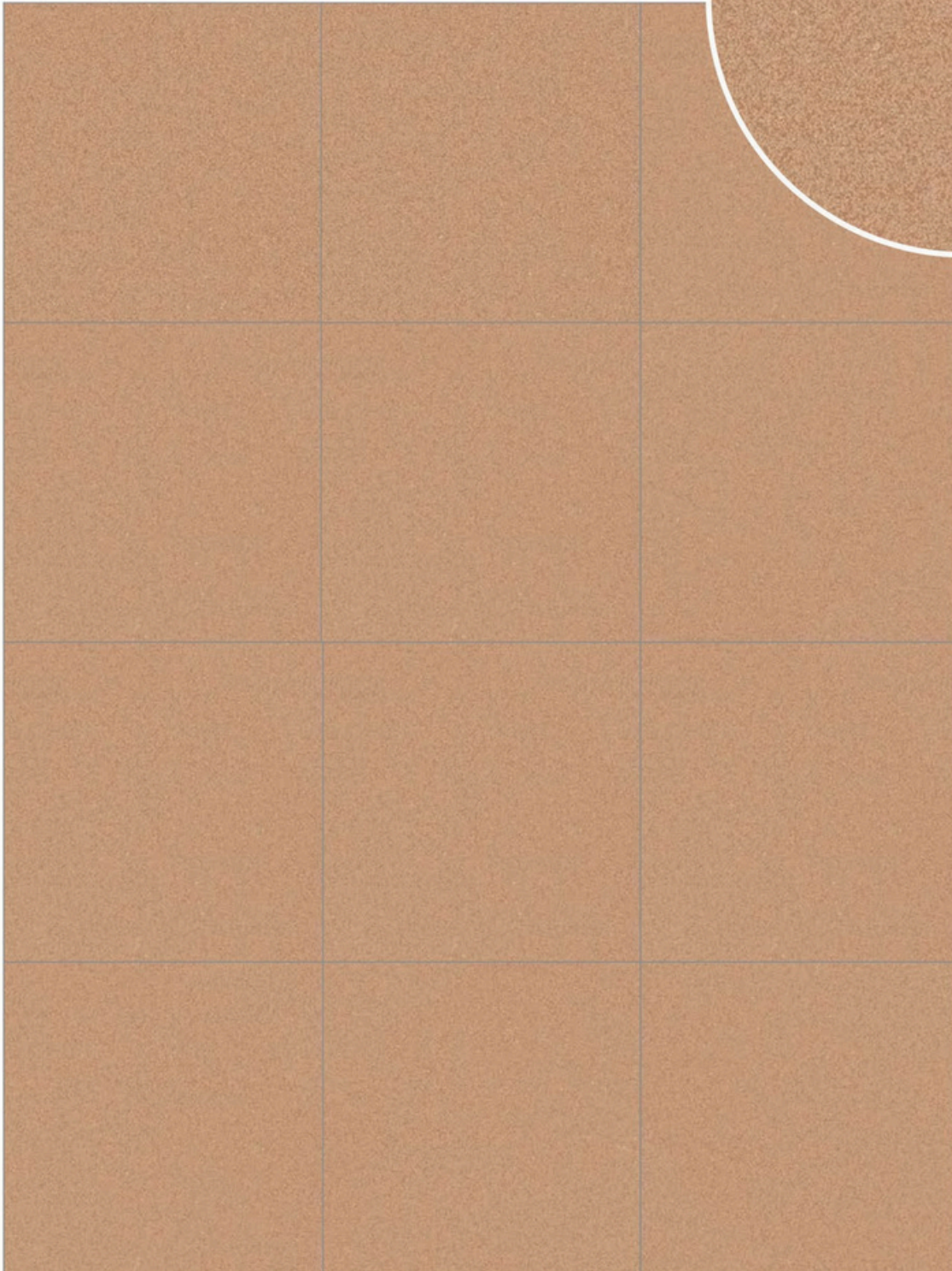
 **V1**
uniform
appearance



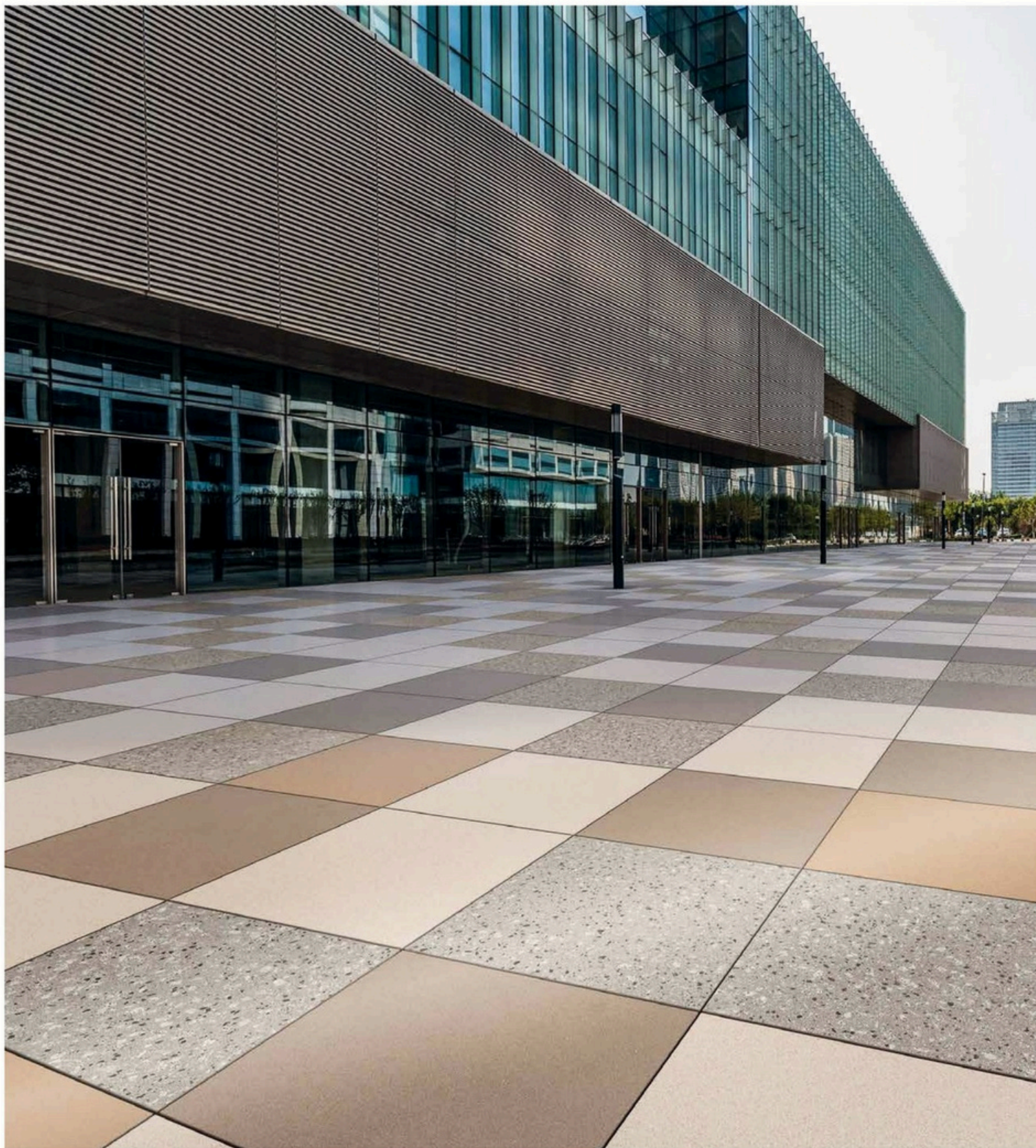
CSP1005
23 3/8" X 23 3/8" rectified
60x60 cm



CSP1011
11 3/4" X 23 3/8" rectified
30x60 cm



PHILADELPHIA SERIES | Peru



 $\frac{3}{4}$ " thickness

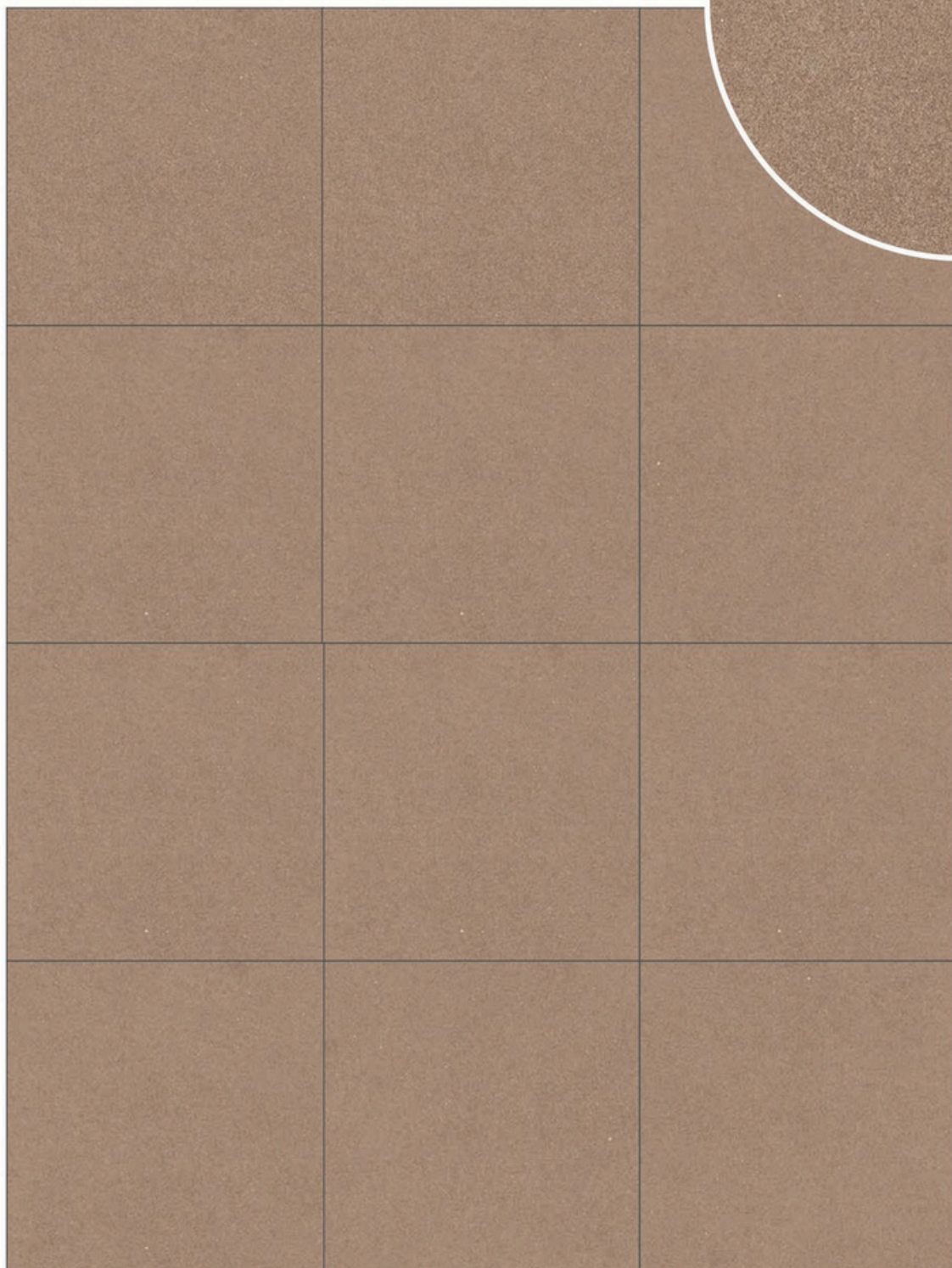
 **V1**
uniform
appearance



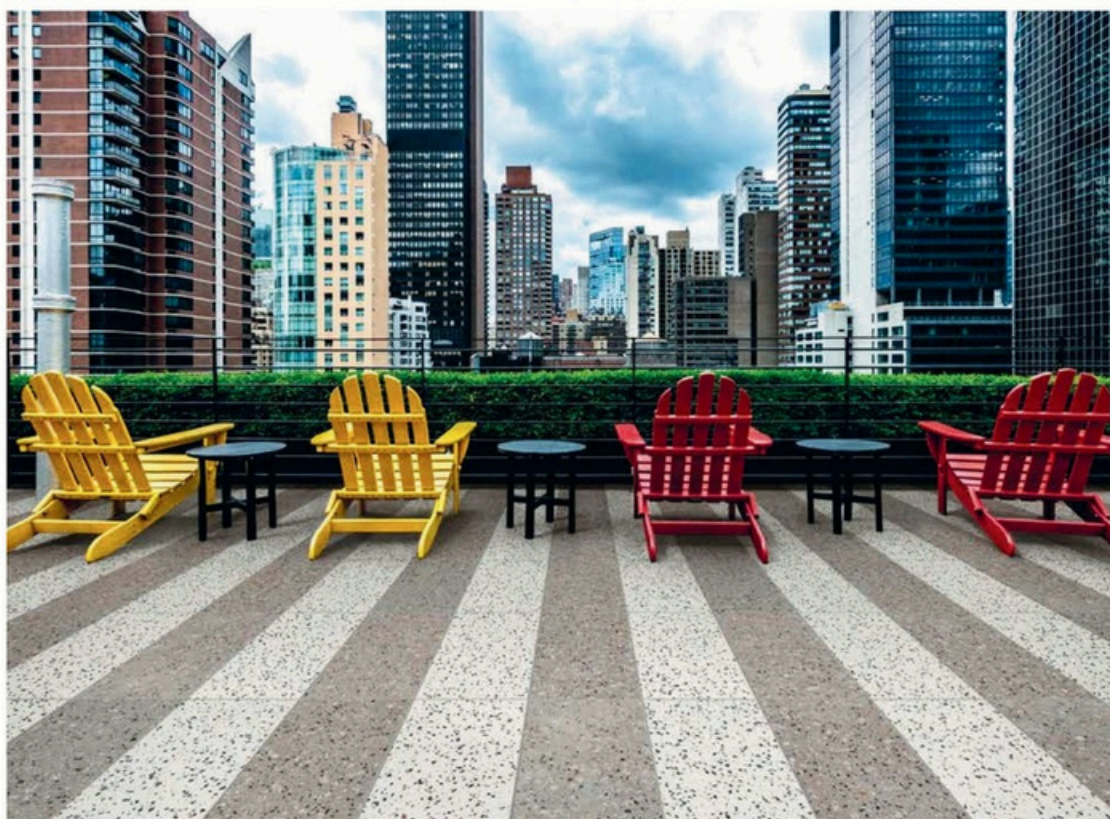
CSP1006
 $23\frac{3}{8}$ " X $23\frac{3}{8}$ " rectified
60x60 cm



CSP1012
 $11\frac{3}{4}$ " X $23\frac{3}{8}$ " rectified
30x60 cm

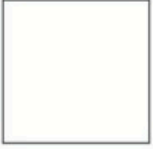


TERRAZZO PREMIER | Bisque



 3/4" thickness

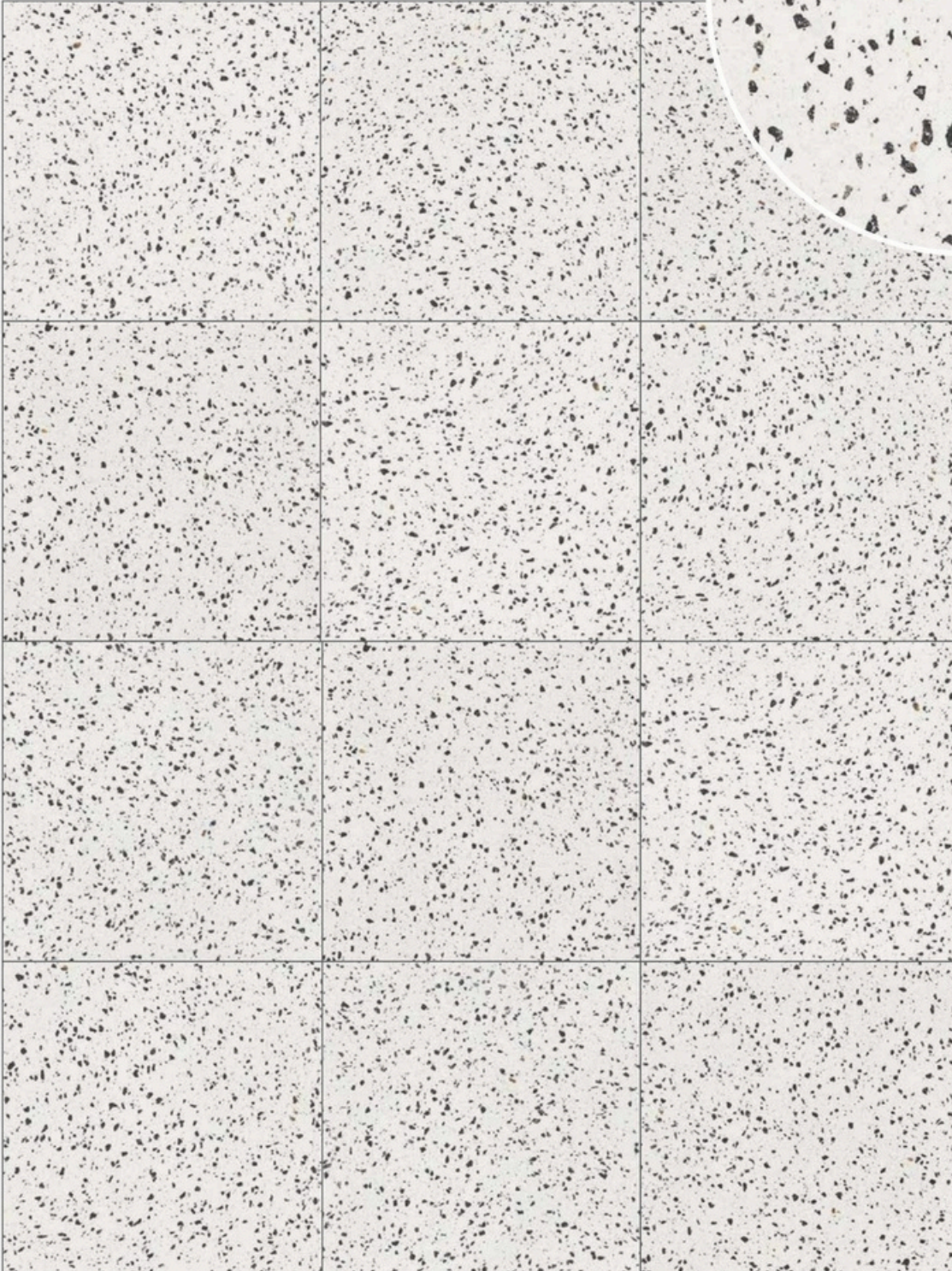
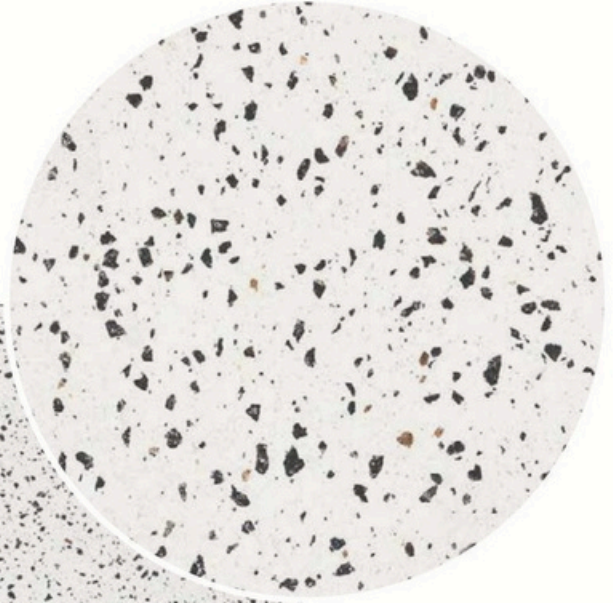
 V2
slight
variation



CSP1101
23 3/5" X 23 3/5" rectified
60x60 cm



CSP1106
11 3/4" X 23 3/5" rectified
30x60 cm



TERRAZZO PREMIER | Clay



 $\frac{3}{4}$ " thickness

 **V2**
slight
variation



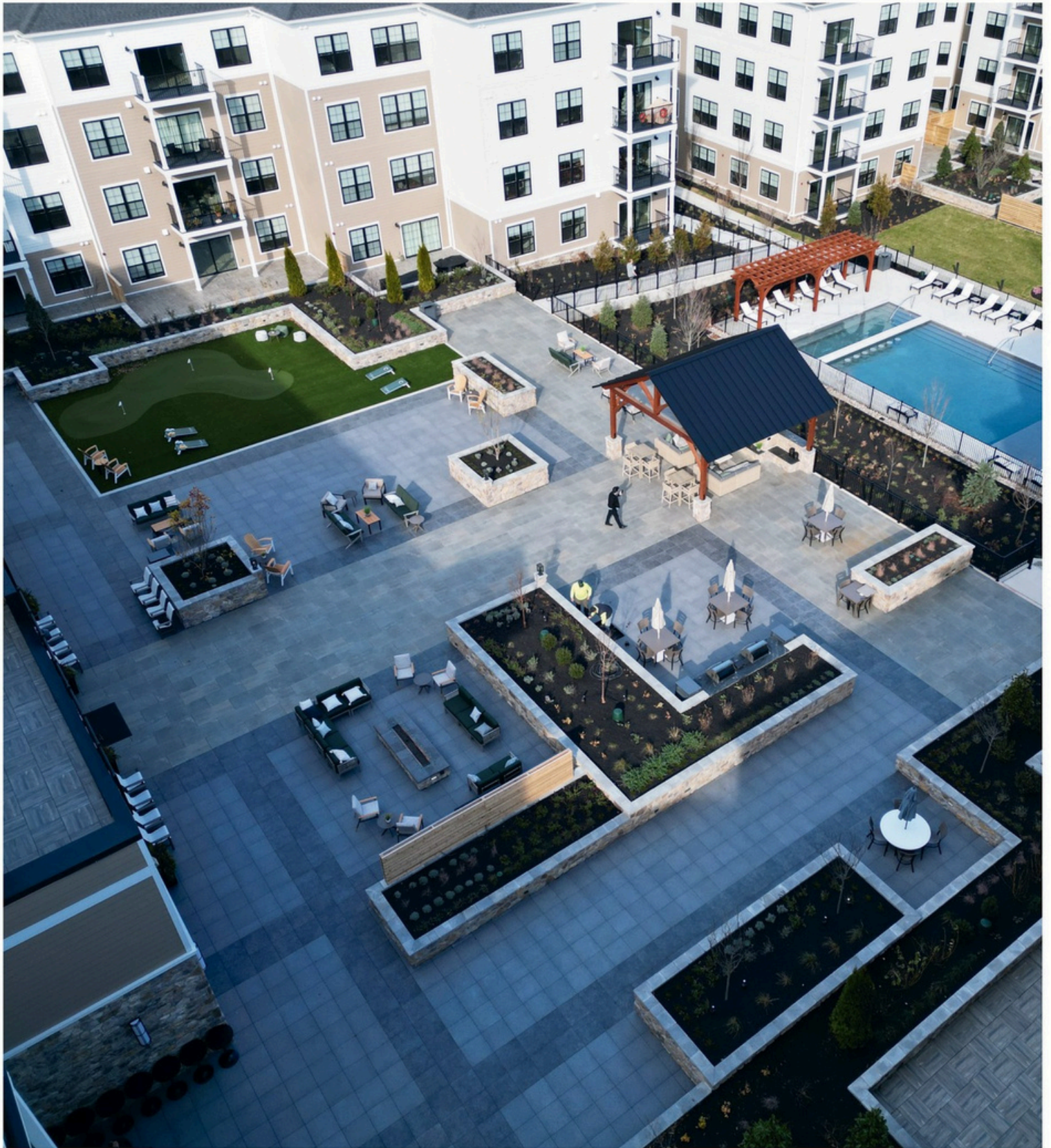
CSP1102
 $23\frac{3}{8}$ " X $23\frac{3}{8}$ " rectified
60x60 cm



CSP1107
 $11\frac{3}{4}$ " X $23\frac{3}{8}$ " rectified
30x60 cm



TERRAZZO PREMIER | Truffle



 3/4" thickness

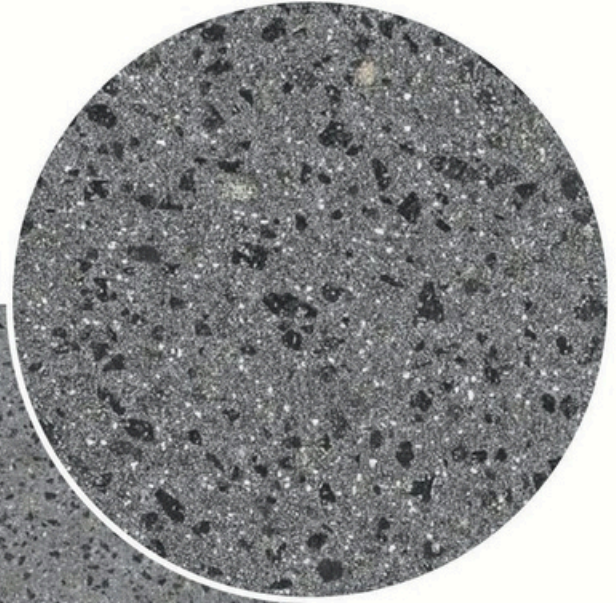
 V2
slight
variation



CSP1103
23 3/4" X 23 3/4" rectified
60x60 cm



CSP1108
11 3/4" X 23 3/4" rectified
30x60 cm



TERRAZZO PREMIER | Atrium



 3/4" thickness

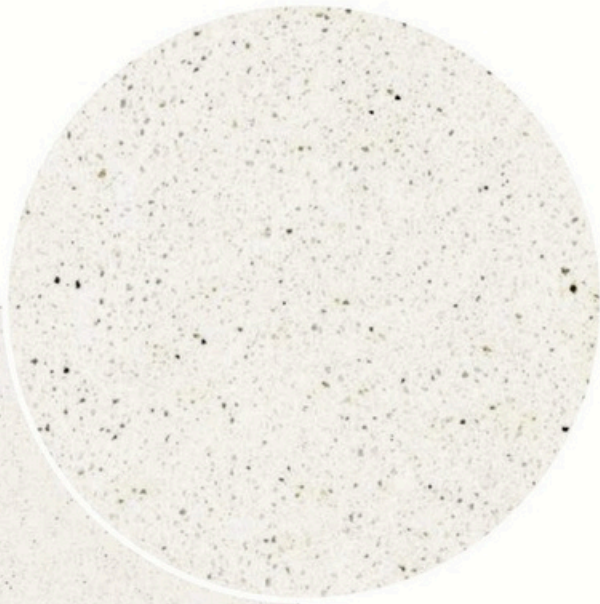
 V2
slight
variation



CSP1104
23 1/4" X 23 1/4" rectified
60x60 cm



CSP1109
11 3/4" X 23 1/4" rectified
30x60 cm



TERRAZZO PREMIER | Polar



 $\frac{3}{4}$ " thickness

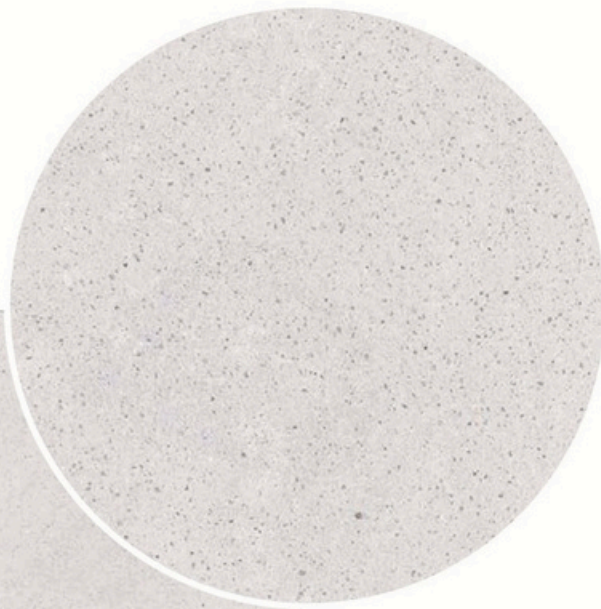
 **V2**
slight
variation



CSP1105
 $23\frac{3}{8}" \times 23\frac{3}{8}"$ rectified
60x60 cm



CSP1110
 $11\frac{3}{4}" \times 23\frac{3}{8}"$ rectified
30x60 cm



MINERAL SERIES | Chiffon Grey



 3/4" thickness

 **V2**
slight
variation



CSP1306
23 3/5" X 48 3/5" rectified
60x120 cm



CSP1303
23 3/5" X 23 3/5" rectified
60x60 cm



MINERAL SERIES | Sepia Powder



 3/4" thickness

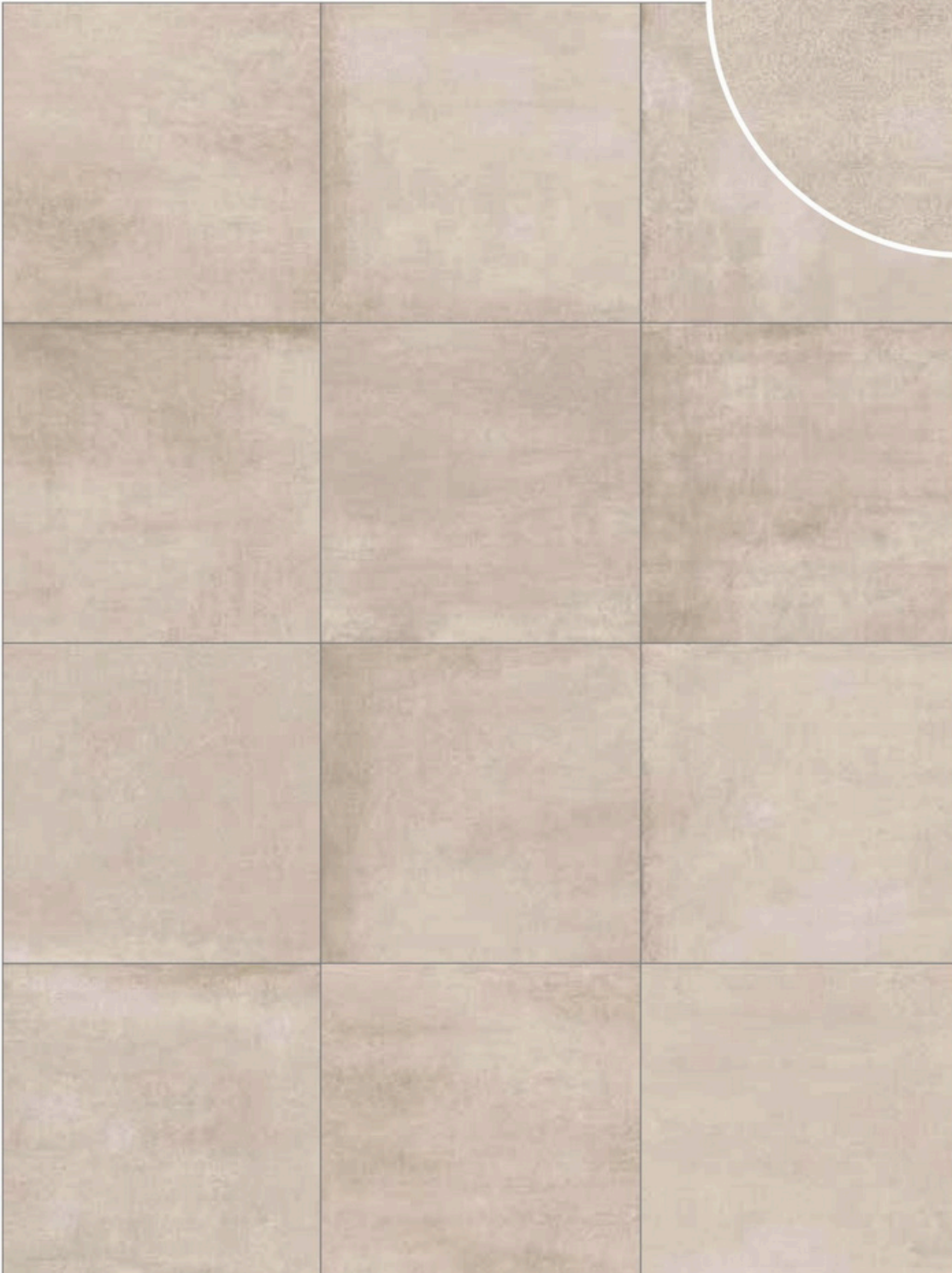
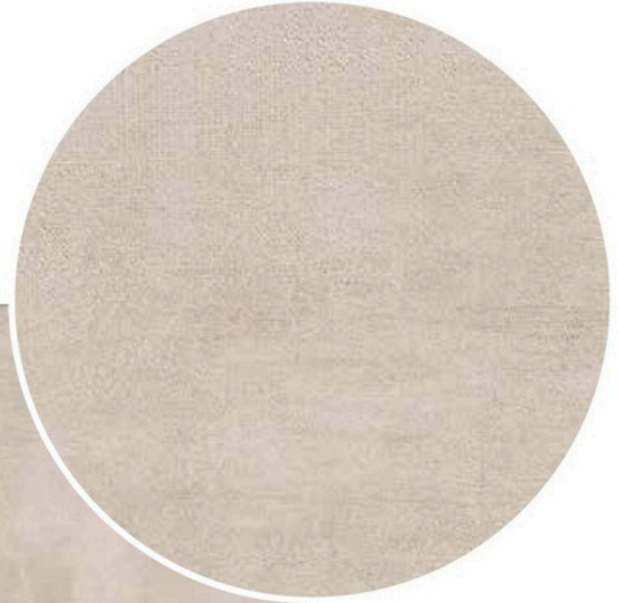
 **V2**
slight
variation



CSP1307
23 3/5" X 48 3/5" rectified
60x120 cm



CSP1304
23 3/5" X 23 3/5" rectified
60x60 cm



MINERAL SERIES | Flaxen



 3/4" thickness

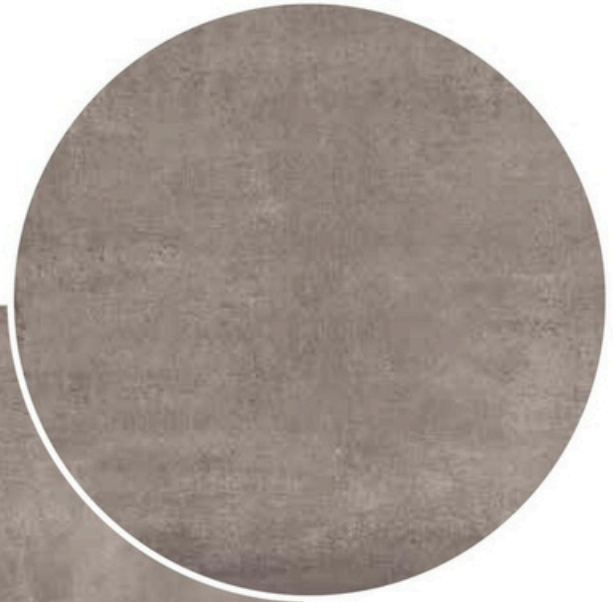
 **V2**
slight
variation



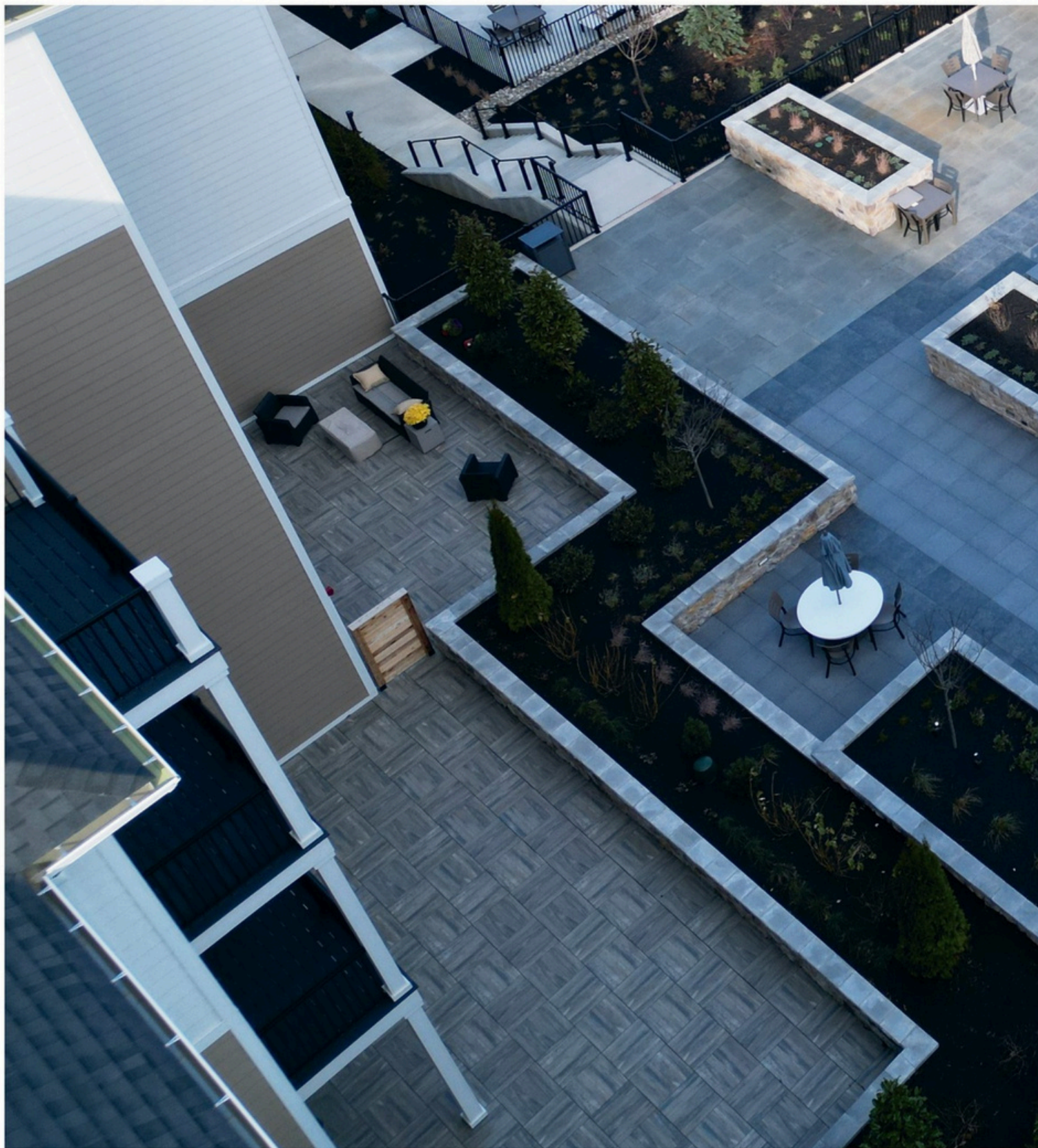
CSP1308
23 1/2" X 48 1/4" rectified
60x120 cm



CSP1305
23 1/2" X 23 1/2" rectified
60x60 cm



ANTIQUE WOOD SERIES | Agave Forest



 $\frac{3}{4}$ " thickness

 **V3**
moderate
variation



CSP1201
23 $\frac{5}{8}$ " X 23 $\frac{5}{8}$ " rectified
60x60 cm



An Italian porcelain paver made in USA



ANTIQUE WOOD SERIES | Aged Medallion



 $\frac{3}{4}$ " thickness

 **V3**
moderate
variation



CSP1202
23 $\frac{5}{8}$ " X 23 $\frac{5}{8}$ " rectified
60x60 cm



An Italian porcelain paver made in USA



ANTIQUE WOOD SERIES | Dove



 $\frac{3}{4}"$ thickness

 **V3**
moderate
variation



CSP1203
 $23\frac{1}{2}" \times 23\frac{1}{2}"$ rectified
60x60 cm



An Italian porcelain paver made in USA



NATURAL WOOD SERIES | Chicory



 3/4" thickness

 **V3**
moderate
variation



CSP1301
23 5/8" X 23 5/8" rectified
60x60 cm



An Italian porcelain paver made in USA



NATURAL WOOD SERIES | Bark Brown



 $\frac{3}{4}$ " thickness

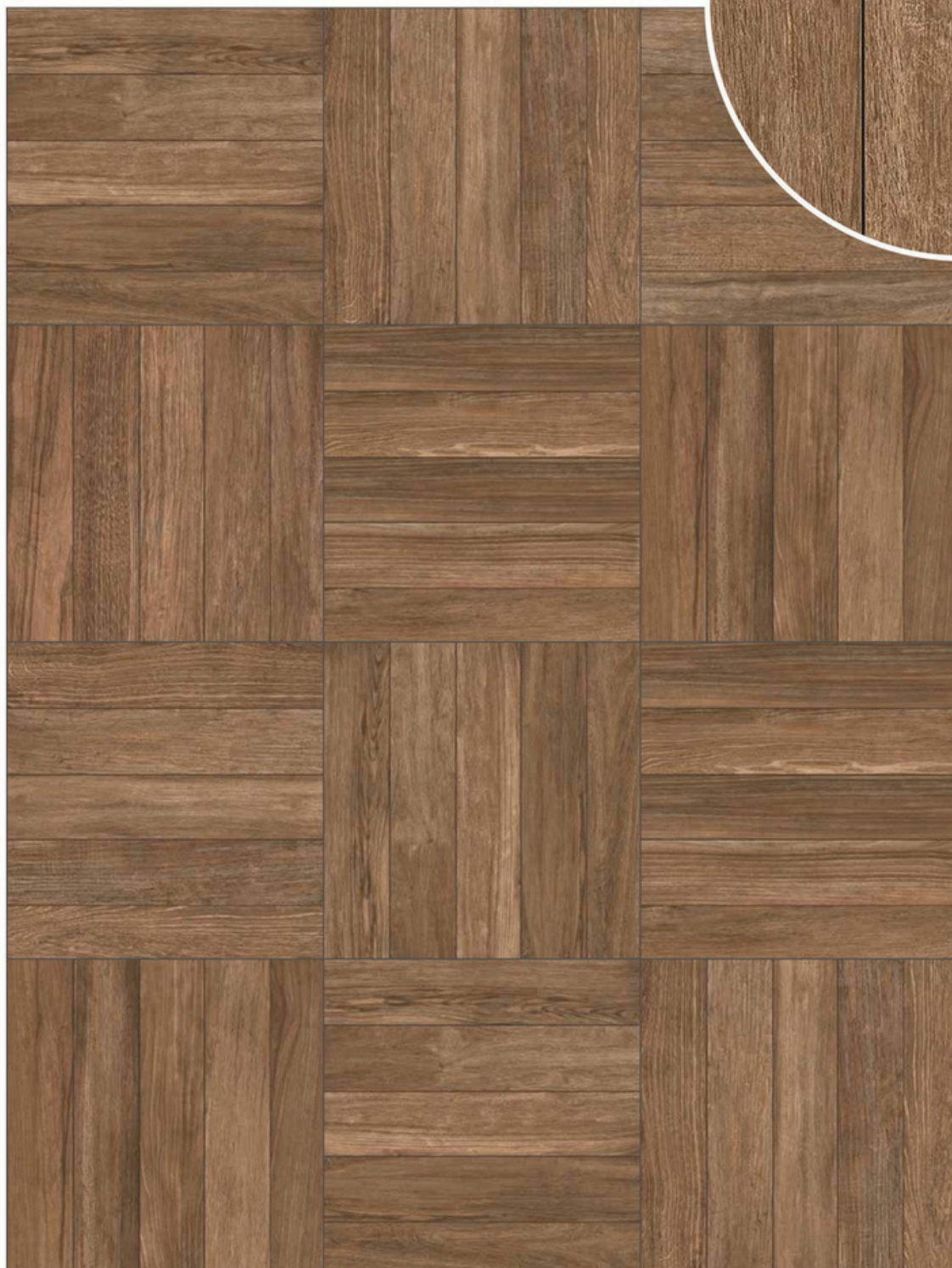
 **V3**
moderate
variation



CSP1302
 $23\frac{1}{8}" \times 23\frac{1}{8}"$ rectified
60x60 cm



An Italian porcelain paver made in USA



TIMBER
SURFACES



PORPHYRY SERIES

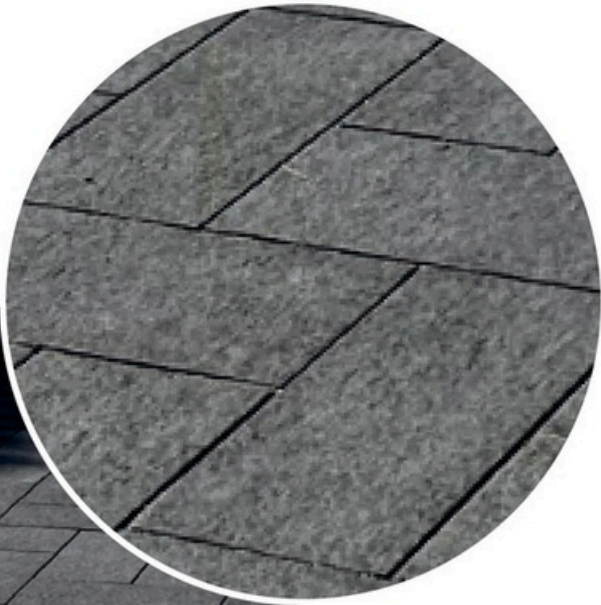
| Midnight



 1 3/16" thickness

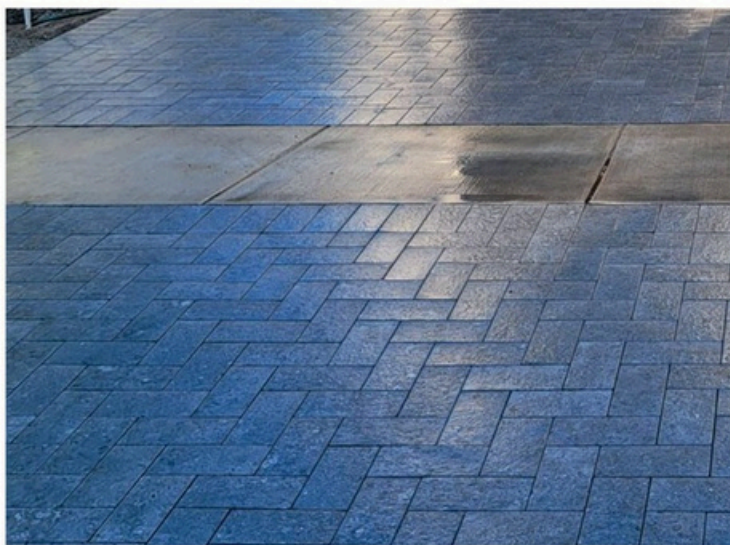


CSP1309
6" x 12" rectified
15 x 30 cm



PORPHYRY SERIES

| Silver



 1 3/16" thickness

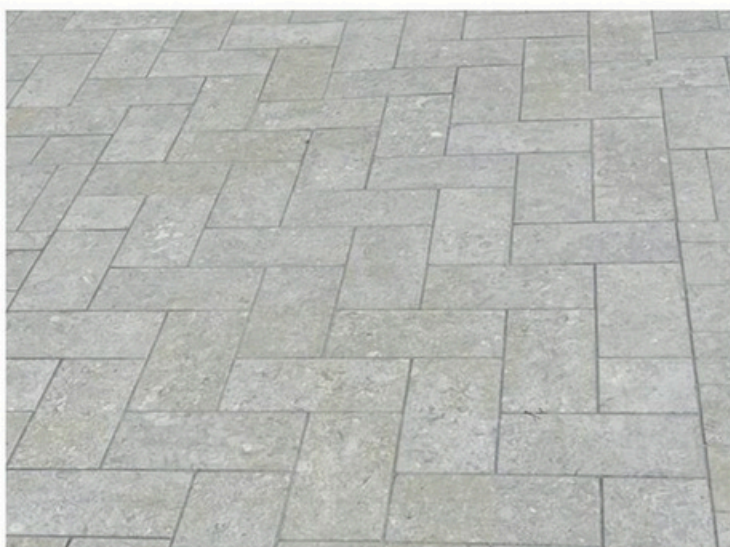


CSP1310
6" x 12" rectified
15 x 30 cm



PORPHYRY SERIES

| Silk



 1 3/16" thickness

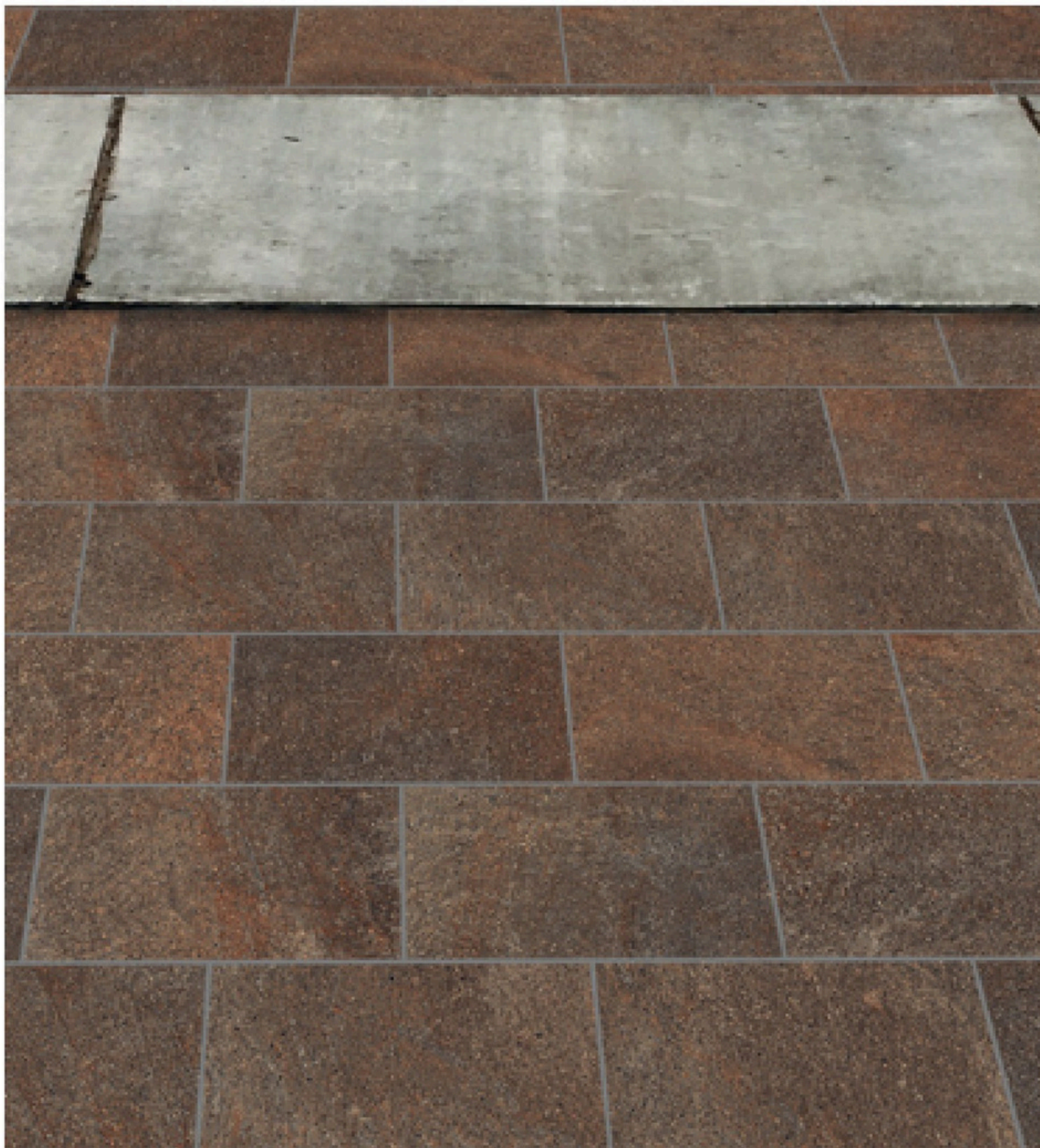


CSP1311
6" x 12" rectified
15 x 30 cm



PORPHYRY SERIES

| Umber Rust



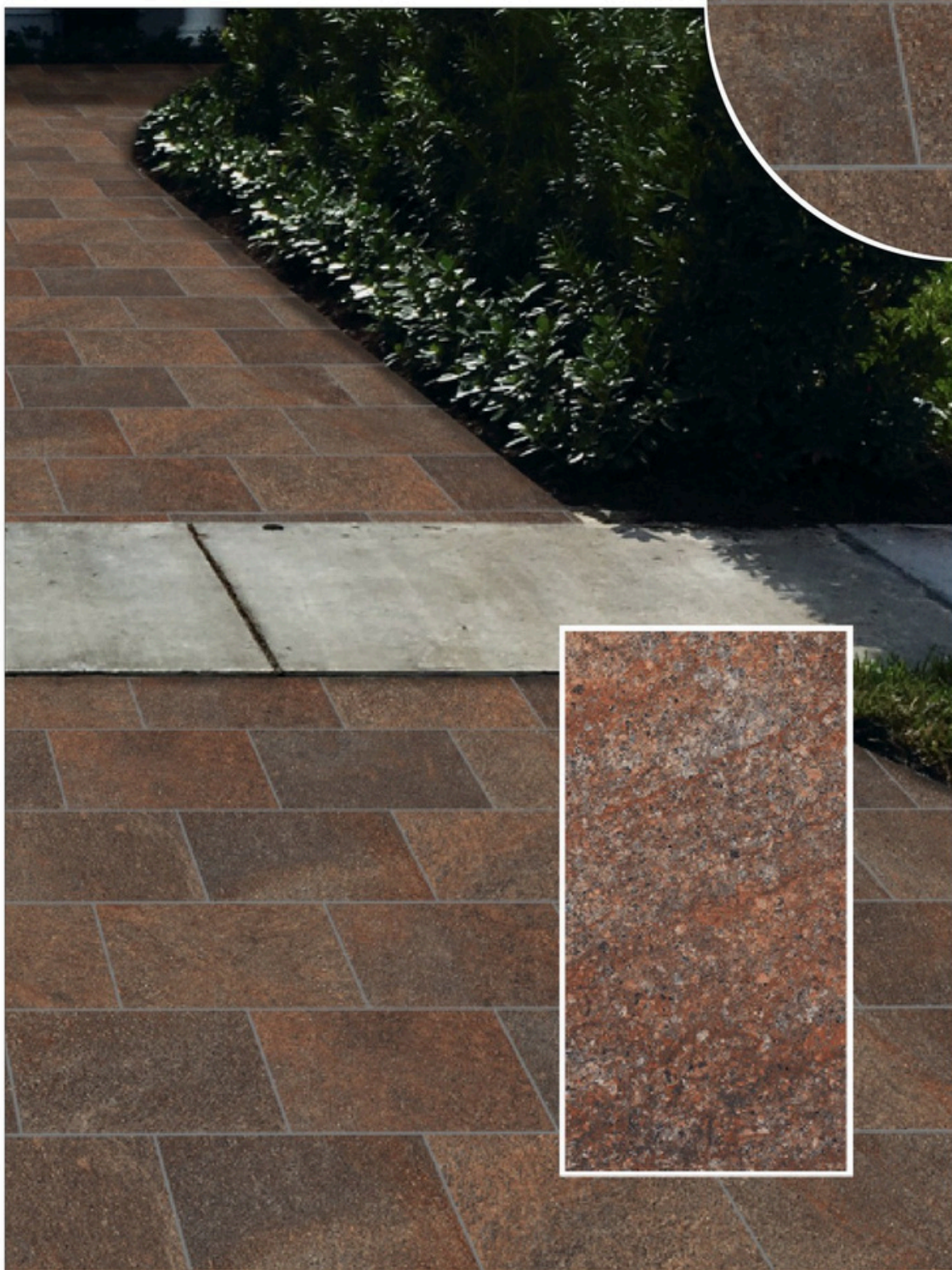
 1 3/16" thickness



CSP1312

6" x 12" rectified

15 x 30 cm



PORPHYRY SERIES

| Basalt



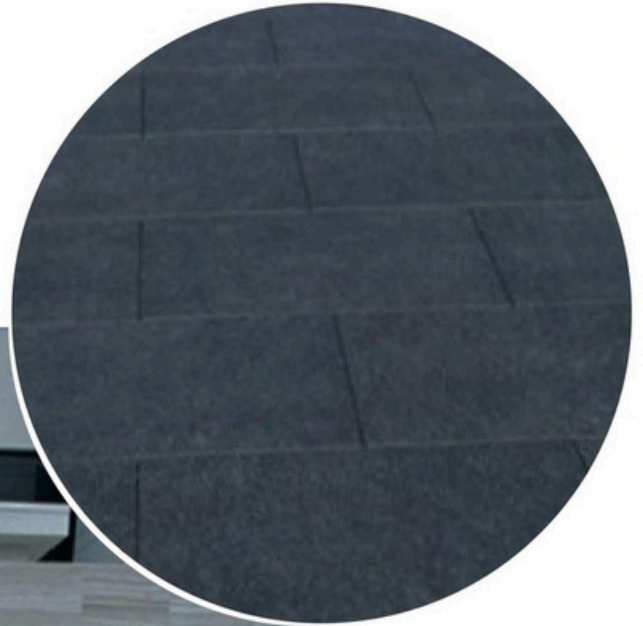
 1 ³/₁₆" thickness



CSP1313
24" x 24" rectified
59.5 x 59.5 cm



CSP1314
16" x 32" rectified
39.5 x 79.5 cm



PORPHYRY SERIES

| Grey Limestone



 1 ³/₁₆" thickness



CSP1315

16" x 32" rectified

39.5 x 79.5 cm



PORPHYRY SERIES

| Light French Grey



 1 ³/₁₆" thickness



CSP1316
24" x 24" rectified
59.5 x 59.5 cm



CSP1317
16" x 32" rectified
39.5 x 79.5 cm



QUARTZ SERIES

| Kilm Stone



 1 3/16" thickness

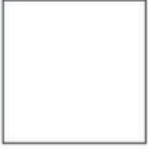


CSP1318
16" x 32" rectified
39.5 x 79.5 cm





 1 3/16" thickness



CSP1319
24" x 24" rectified
59.5 x 59.5 cm



QUARTZ SERIES

| Southern Grey



 1 3/16" thickness



CSP1320

6" x 12" rectified

15 x 30 cm



QUARTZ SERIES

| Southern Sand



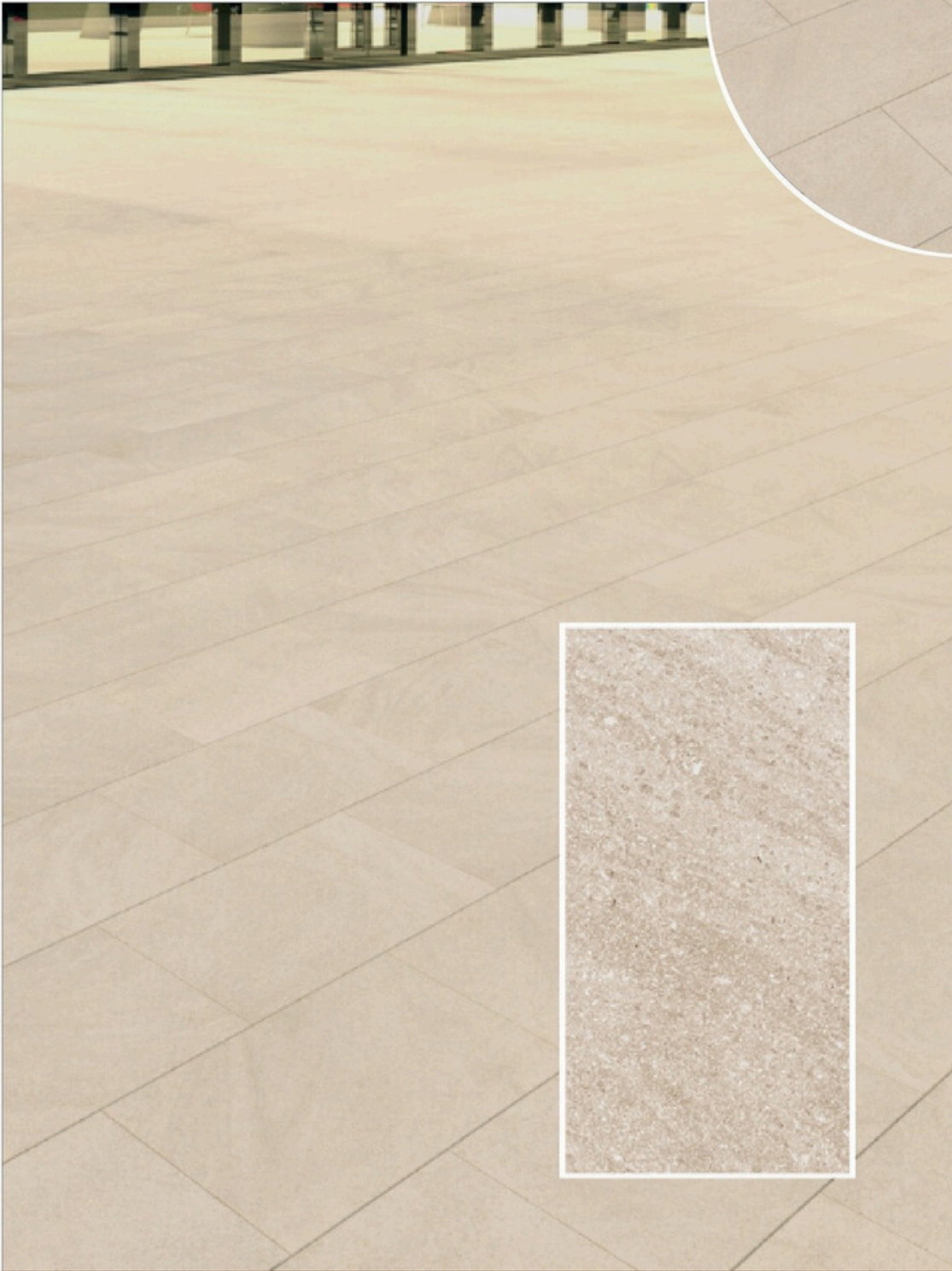
 1 3/16" thickness

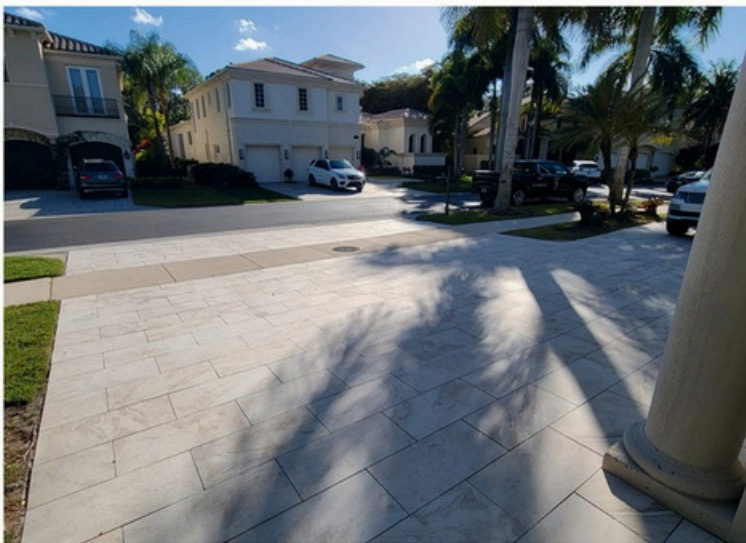


CSP1321

6" x 12" rectified

15 x 30 cm



QUARTZ SERIES**| Downing Sand**

 1 $\frac{3}{16}$ " thickness



CSP1322

16" x 32" rectified

39.5 x 79.5 cm



QUARTZ SERIES

| Drift Grey



 1 3/16" thickness



CSP1339

16" x 32" rectified

39.5 x 79.5 cm



HERITAGE SERIES

| Antique Grey



 1 ³/₁₆" thickness



CSP1323

24" x 24" rectified

59.5 x 59.5 cm



HERITAGE SERIES

| Dark Bluestone



 1 3/16" thickness



CSP1324
16" x 32" rectified
39.5 x 79.5 cm



HERITAGE SERIES

| Granite Grey



 1 3/16" thickness



CSP1325
16" x 32" rectified
39.5 x 79.5 cm



HERITAGE SERIES

| Aged Stone



 1 3/16" thickness



CSP1326
16" x 32" rectified
39.5 x 79.5 cm



HERITAGE SERIES

| Tuscan Grey



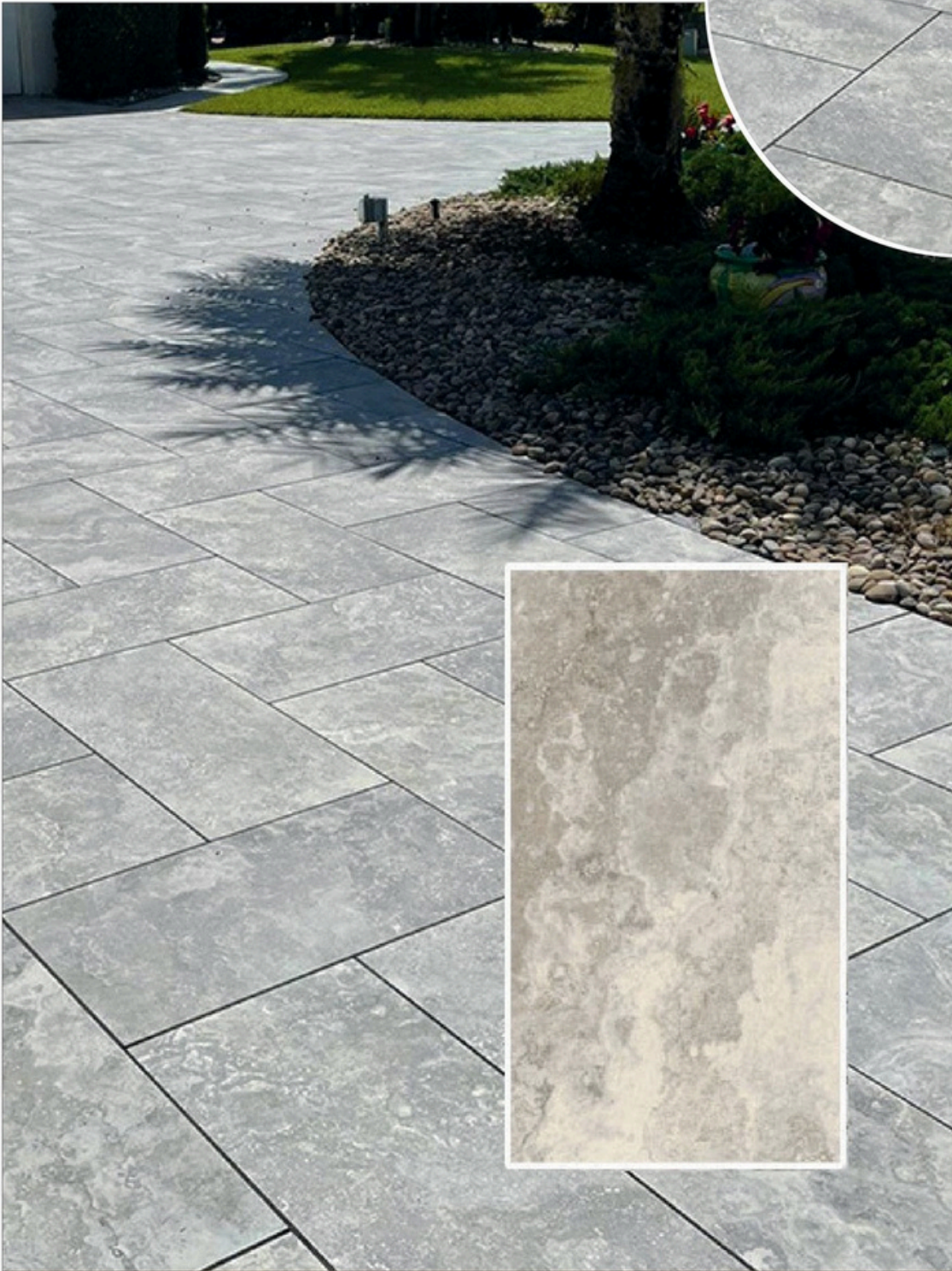
 1 ³/₁₆" thickness



CSP1327
24" x 24" rectified
59.5 x 59.5 cm



CSP1328
16" x 32" rectified
39.5 x 79.5 cm



HERITAGE SERIES**| Seaside Stone**

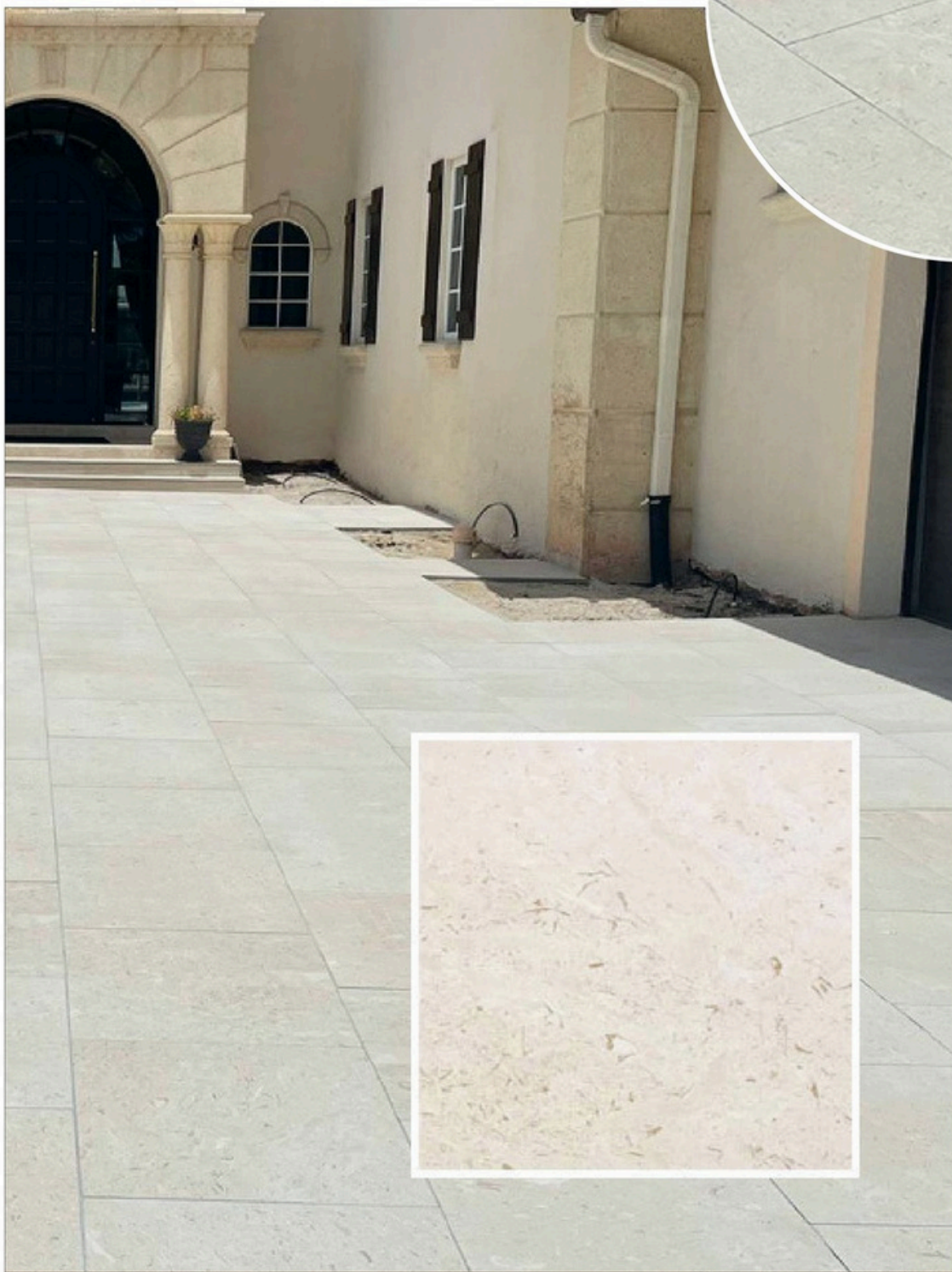
 1 3/16" thickness



CSP1329

24" x 24" rectified

59.5 x 59.5 cm



HERITAGE SERIES

| Storm Grey

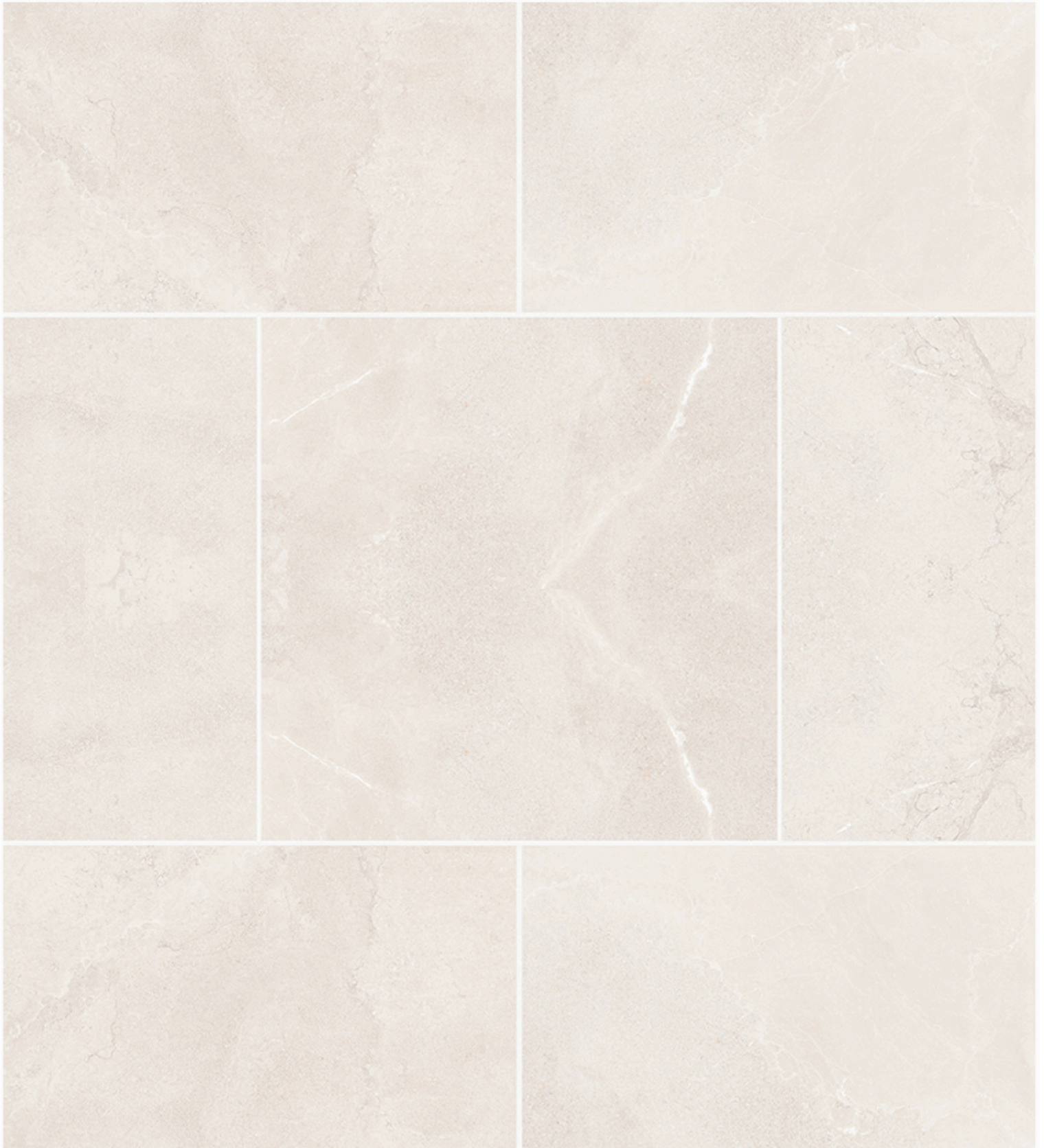


 1 ³/₁₆" thickness



CSP1340
24" x 24" rectified
59.5 x 59.5 cm



HERITAGE SERIES**| Marbled Sand**

 1 ³/₁₆" thickness



CSP1341
24" x 24" rectified
59.5 x 59.5 cm



HERITAGE SERIES

| Aged Greystone



 1 3/16" thickness



CSP1342
24" x 24" rectified
59.5 x 59.5 cm



GRANITE SERIES

| Shingle Beige



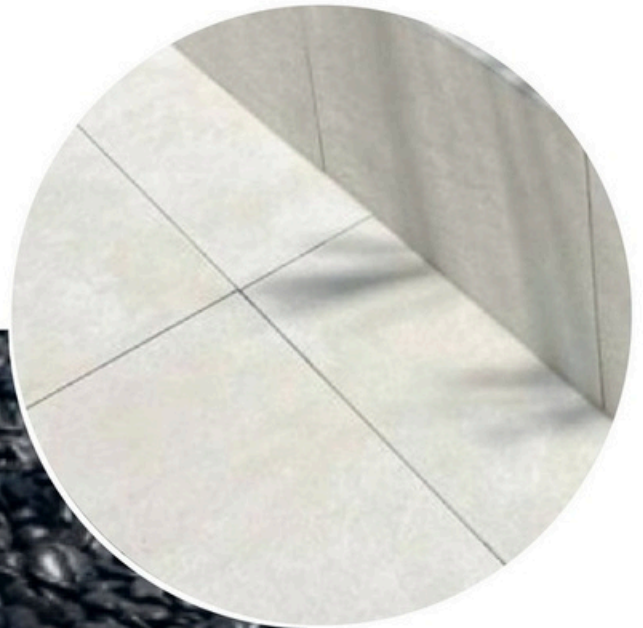
 1 3/16" thickness



CSP1329

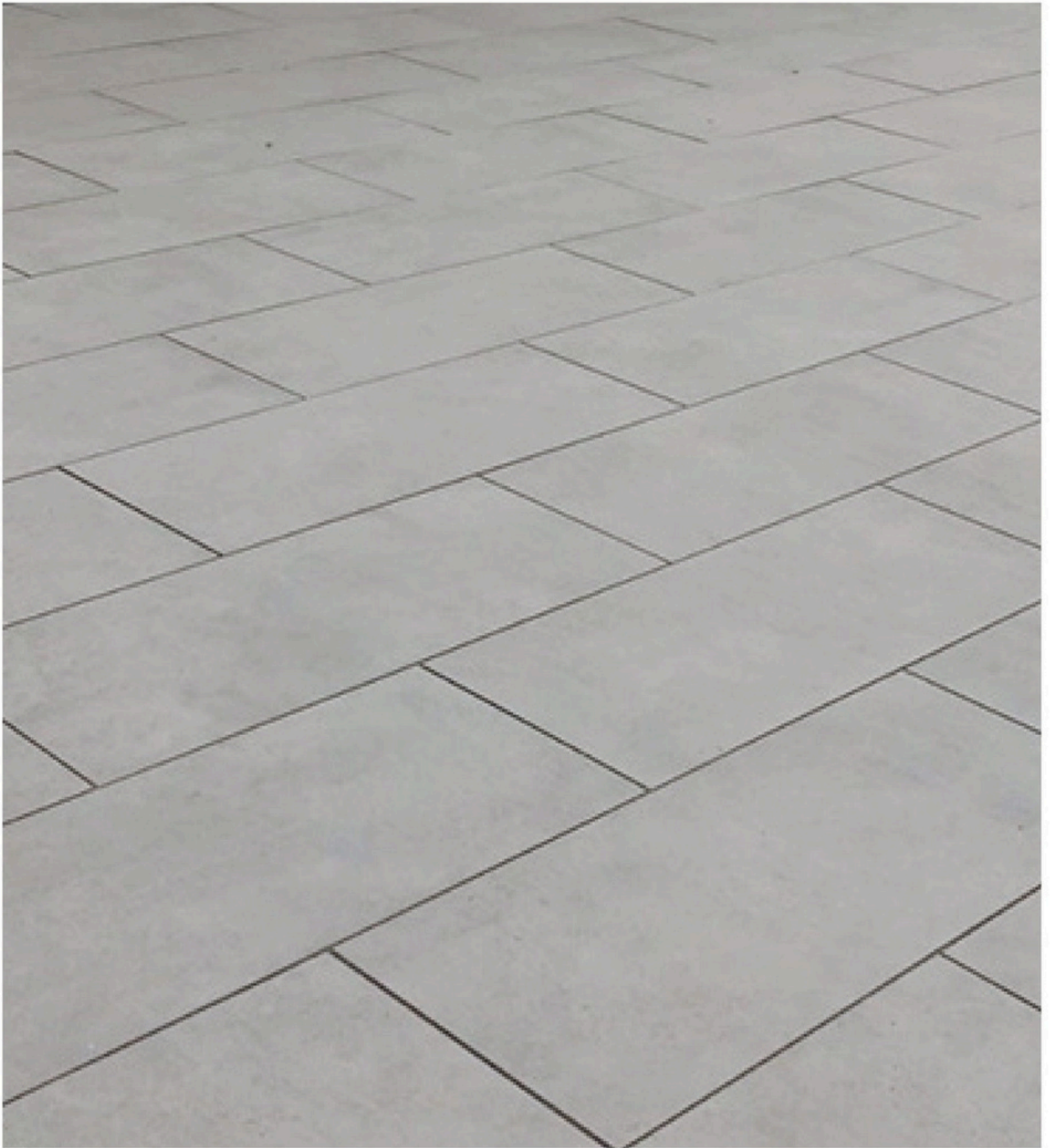
16" x 32" rectified

39.5 x 79.5 cm



GRANITE SERIES

| Aztec Grey



 1 3/16" thickness



CSP1331
16" x 32" rectified
39.5 x 79.5 cm



GRANITE SERIES

| Cavern Sand



 1 3/16" thickness



CSP1332

16" x 32" rectified

39.5 x 79.5 cm



GRANITE SERIES**| Bedrock Mist**

 1 3/16" thickness



CSP1333

16" x 32" rectified

39.5 x 79.5 cm



GRANITE SERIES

| Northern Snow



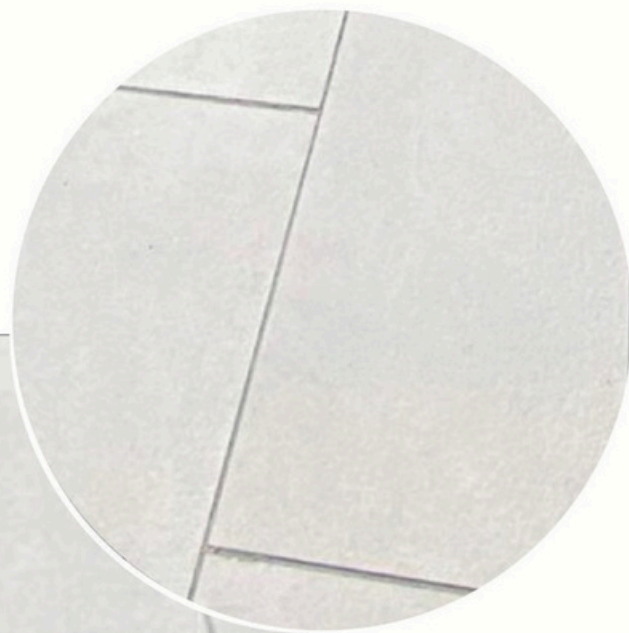
 1 3/16" thickness



CSP1334

16" x 32" rectified

39.5 x 79.5 cm



GRANITE SERIES

| Gabbro



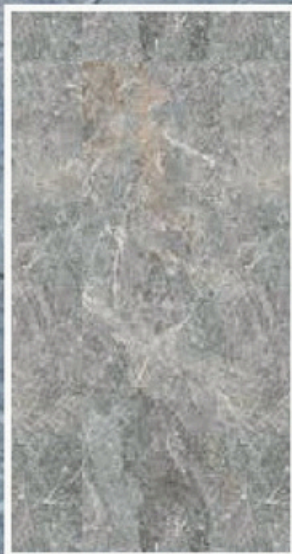
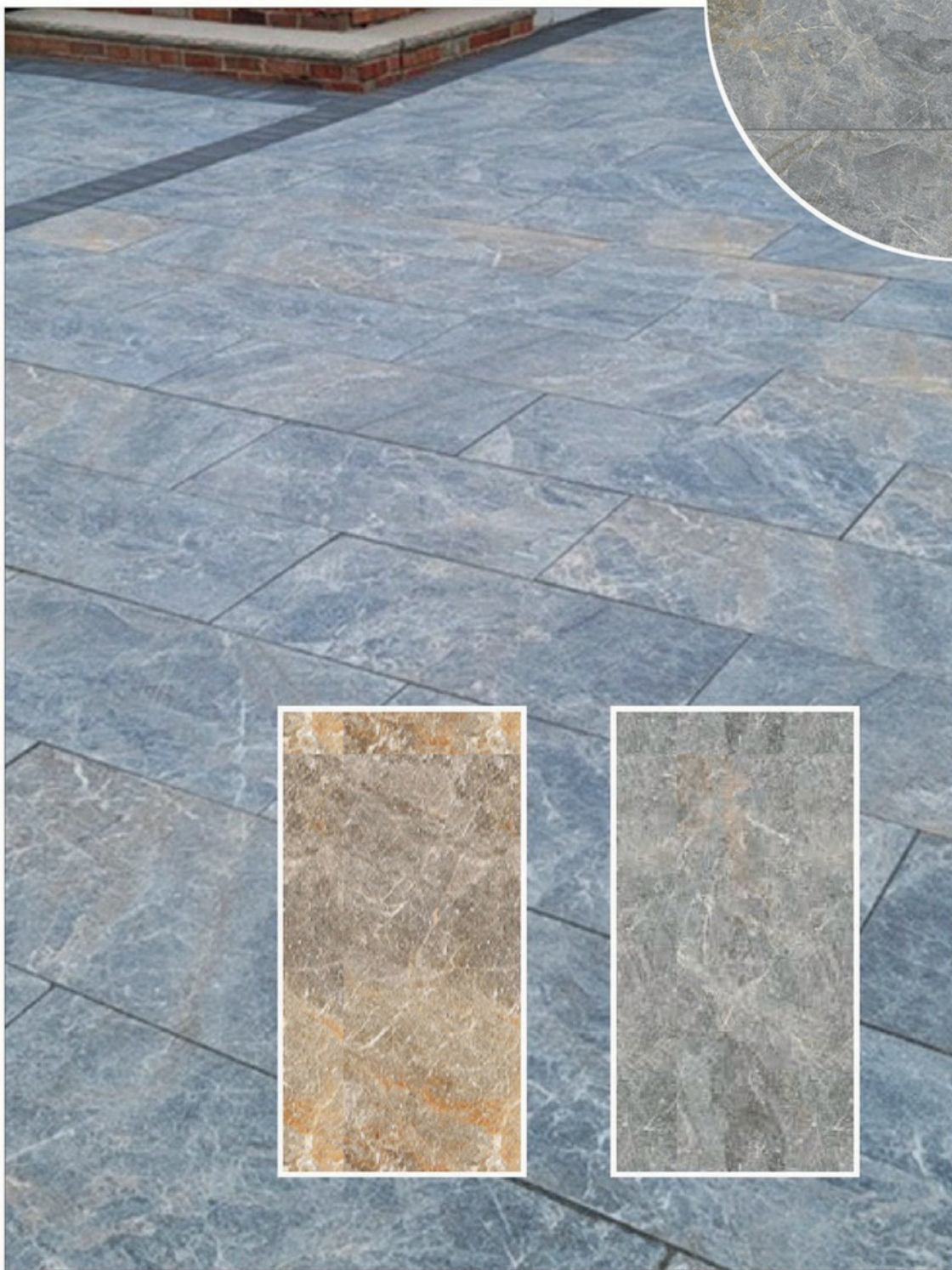
 1 ³/₁₆" thickness



CSP1335

16" x 32" rectified

39.5 x 79.5 cm



GRANITE SERIES

| Cement Grey



 1 3/16" thickness



CSP1336

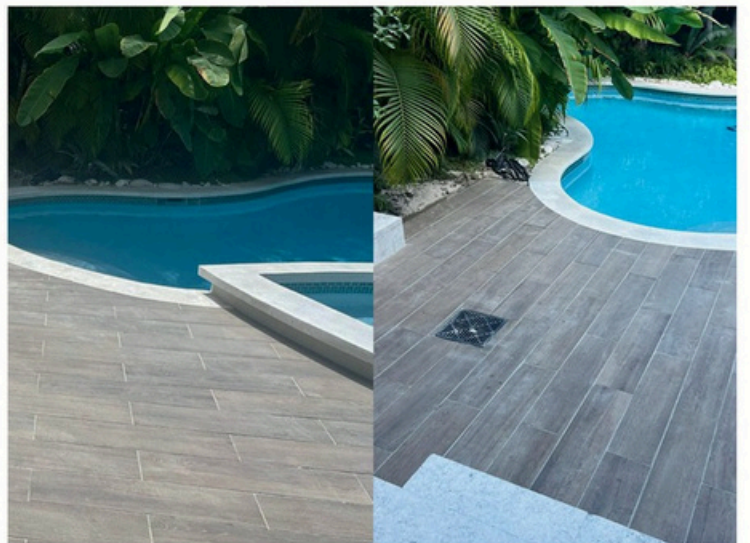
16" x 32" rectified

39.5 x 79.5 cm



WOOD SERIES

| Light Oak



 1 ³/₁₆" thickness



CSP1337

8" x 32" rectified

19.6 x 79.5 cm



WOOD SERIES

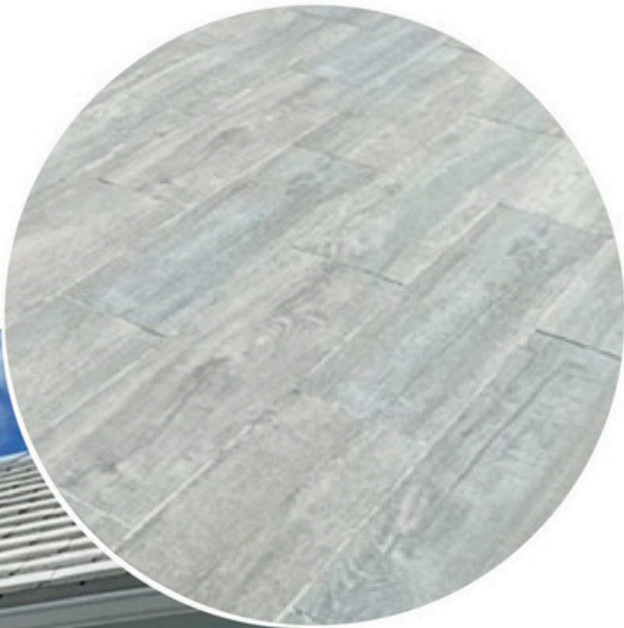
| Grey Oak



 1 3/16" thickness



CSP1338
8" x 32" rectified
19.6 x 79.5 cm



LAYING INSTRUCTION |

Laying 2 cm (.787") or 3 cm (1.181") outdoor

Consequently, the size and nature of the porcelain stoneware slabs, due to the pronounced anti-slip surface (which always retains a thin layer of water), special attention should be given to the slope and inclination %, that the customer wants to give to the floor plan and direction laying of the slab stoneware. The % of slope and slope of the floor must meet the architectural choices of the project and the needs for natural runoff of rainwater. These vary according to the geographical area, orientation and exposure of the affected area, if it is completely bare, etc. etc. By way of example, not binding, of the Swiss office UPI, recommends slopes not less than 1, 5% per linear meter.

Cutting

To cut 2 cm or 3cm porcelain pavers, make the measurements needed and mark the part to be removed on the piece, then cut with an electric tool or water-cooled circular construction saw. Be sure the saw has a diamond blade or similar for a clean cut to minimize chipping and breakage.

Porcelain Paver (grout staves) and "Antique/Natural Wood Series" 60x60 - 23½"x23½"

Consequently the special structure (bas-relief grooves) which reproduces a wood grooves effect the exterior staves dimensions of each piece may have subtle differences from inner staves. This due to the caliber of production that can have significant dimensional variations to each production. Unfortunately this affects the outside slats only. For this reason the products concerned must have a minimum aesthetic tolerances, to improve then we may recommend the following countermeasures:

1. To use pedestals with crosses of at least 4 mm -0.15" in order to have the same size for the joint (Porcelain Paver).

In the traditional installation use crosses to 4 mm -0.15" (the aim is repeating the same internal dimensioning leakage per piece).

2. To lay down the material following always the same production (verifiable from the back of the slab).

3. Adopt the basket diagram laying.

Thermal expansions effects on surfaces

The strong thermal excursions (-15+ 70) which are subjected the FLAT ROOFS, involve the need to consider the effects on building materials. Materials that often have among their different COEFFICIENT of dilatation. The regulations provide for the establishment of special ELASTIC expansion JOINTS in building structures, in the perimeter and in the fractionation of insoles.

Our Flooring as well as having its own THERMAL EXPANSION COEFFICIENT and their dynamic behavior, they lay down and are installed on foundations and structures that move. They contract and dilate in measure also important depending on the size even for some cm.

The effect that you might encounter in relation to the use of dry flooring is a misalignment of joints in release of raised floor or uncoupling the plastic module. If they would be glued flooring instead, they might break and deteriorate.

It is therefore essential to avoid or limiting the occurrence of these flaws, making a large perimeter joints and avoiding, where possible, the stationing of heavy weights/structures that inhibit the correct movement of the flooring. It is necessary to split up the flooring area in the case of plastic module also at the slope change of the base. To do this, it is advisable to use the accessories provided in the catalog and elastic joints/shackles available normally at specialty retailers.

Temperature

The product gets hot in the sun. Darker color more than lighter color. For more information contact us.



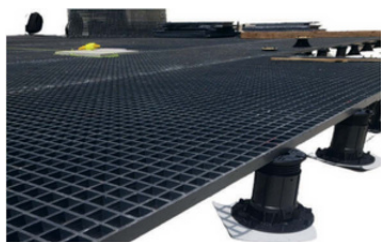
Recommendations for Layr Porcelain Pavers on elevated installation

The Monolithic product Porcelain Pavers self-carrying 2.0 is definitely suitable for external use for support and elevated installation. There is no specific legislation for outdoor products in porcelain in elevation. the closest to our product is relating to the cement slabs (concrete). To this legislation our Porcelain Paver RESPONDS IMPROVEMENT on all comparative tests. e.g. resists more then 1400 kg per slab (test result as per EN 1339 KN 14 >). This means, according to the adopted standard, the material is suitable for "COLLECTIVE and public use without LIMITATION of the height of the pedestals or sleepers".

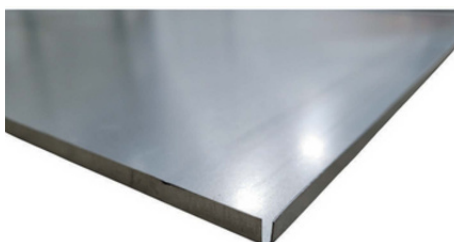
If we compare our product Porcelain Paver to the elevated indoor norms, his weakness point is the LOAD/DYNAMIC HARD body SHOCK (for example a hard object fall such as a hammer or other rigid material of less than 4.5 kg from 40 cm - 16" height) EN 12825.

In fact the particular stiffness of the gres porcelain does not help us, because the gres slab can break or shatter, we must therefore consider this risk and in face of this advise in some uses such as mechanical workshop or where floor heights are higher than the 3.93" (10 cm) using reinforcements to be applied on the back of the slabs:

FRP48/412 -FRP Support Tray



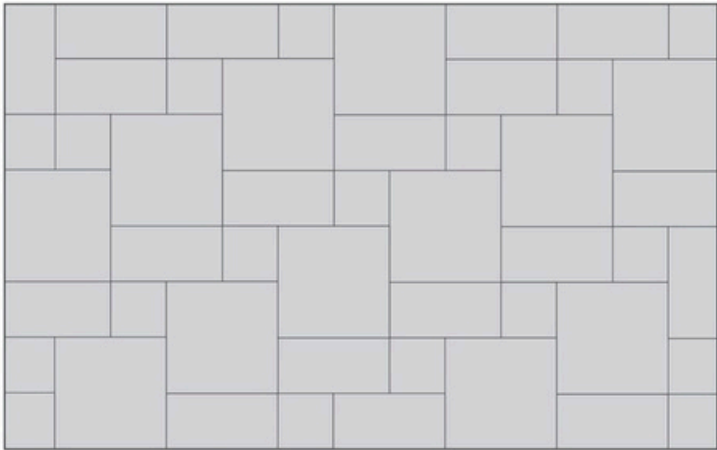
ST101 -Metal Tray Support



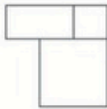
There are two reinforcement tray systems that Layr offers for additional support, height stability subflooring for mixed paver size patterns, and for artificial turf applications.



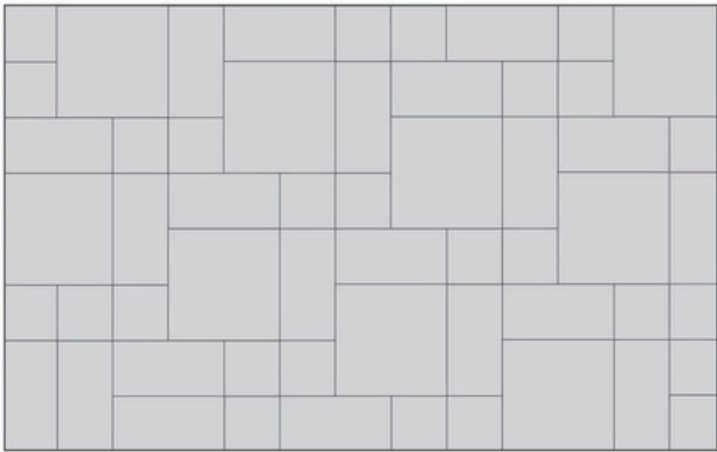
2CM PATTERNS



pattern A

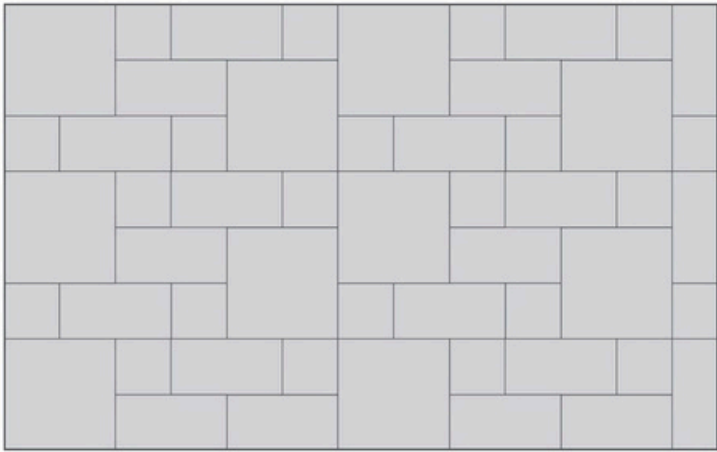


Nr. 1 pcs	$23\frac{1}{5}'' \times 23\frac{1}{5}''$ - 60x60cm	57,2%
Nr. 1 pcs	$11\frac{3}{4}'' \times 23\frac{1}{5}''$ - 30x60cm	28,5%
Nr. 1 pcs	$11\frac{3}{4}'' \times 11\frac{3}{4}''$ - 30x30cm	14,3%

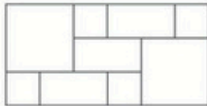


pattern B

Nr. 1 pcs	$23\frac{1}{5}'' \times 23\frac{1}{5}''$ - 60x60cm	40%
Nr. 2 pcs	$11\frac{3}{4}'' \times 23\frac{1}{5}''$ - 30x60cm	40%
Nr. 2 pcs	$11\frac{3}{4}'' \times 11\frac{3}{4}''$ - 30x30cm	20%

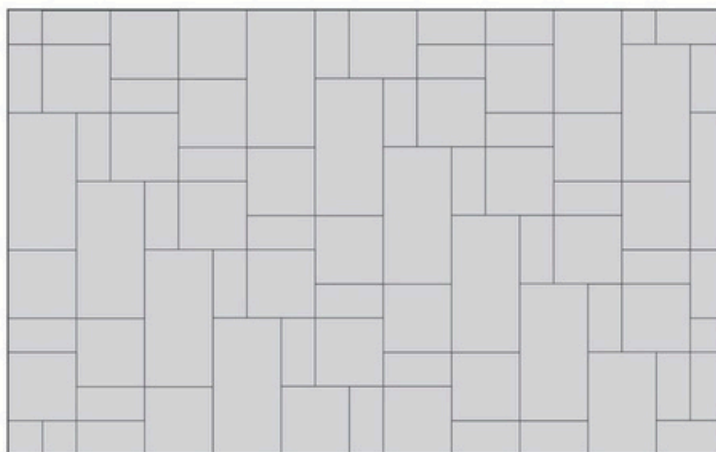


pattern C

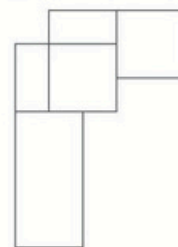


Nr. 2 pcs	$23\frac{1}{5}'' \times 23\frac{1}{5}''$ - 60x60cm	44,5%
Nr. 3 pcs	$11\frac{3}{4}'' \times 23\frac{1}{5}''$ - 30x60cm	33,3%
Nr. 4 pcs	$11\frac{3}{4}'' \times 11\frac{3}{4}''$ - 30x30cm	22,2%

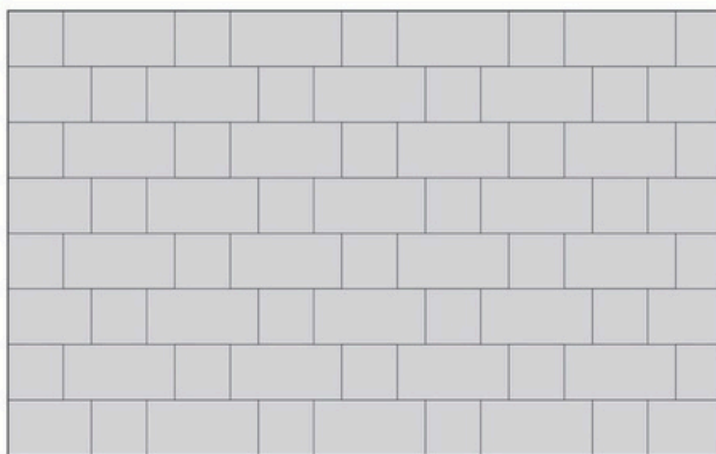




pattern D



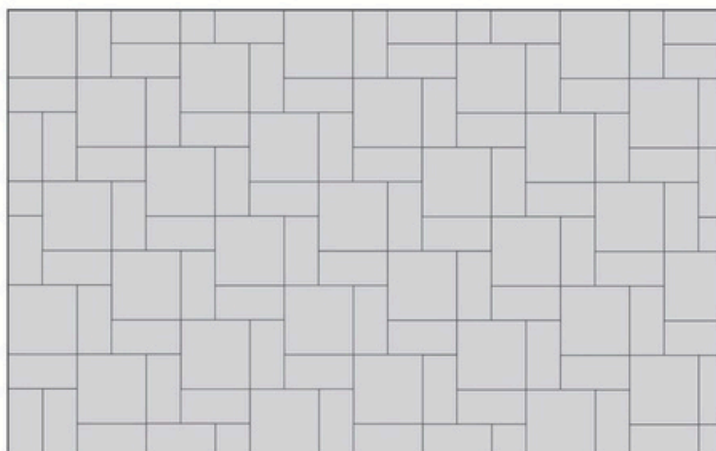
Nr. 1 pcs	$23\frac{1}{4}" \times 47\frac{1}{4}"$ - 60x120cm	
Nr. 2 pcs	$23\frac{1}{4}" \times 23\frac{1}{4}"$ - 60x60cm	
Nr. 2 pcs	$11\frac{3}{4}" \times 23\frac{1}{4}"$ - 30x60cm	



pattern E



Nr. 1 pcs	$23\frac{1}{4}" \times 23\frac{1}{4}"$ - 60x60cm	66.7%
Nr. 1 pcs	$11\frac{3}{4}" \times 23\frac{1}{4}"$ - 30x60cm	33.3%



pattern F

Nr. 1 pcs	$23\frac{1}{4}" \times 23\frac{1}{4}"$ - 60x60cm	50%
Nr. 2 pcs	$11\frac{3}{4}" \times 23\frac{1}{4}"$ - 30x60cm	50%

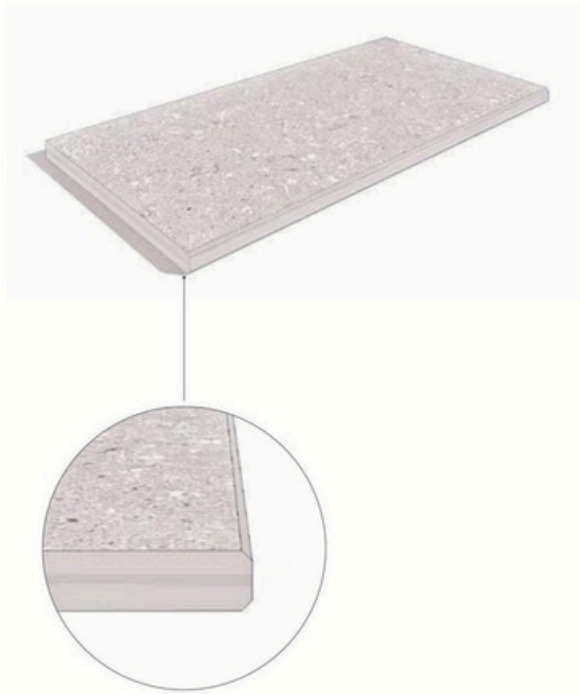


2CM SPECIAL PIECES |

DOUBLE BEVEL COPING

30x60 - 11 $\frac{3}{4}$ " x 23 $\frac{1}{2}$ "

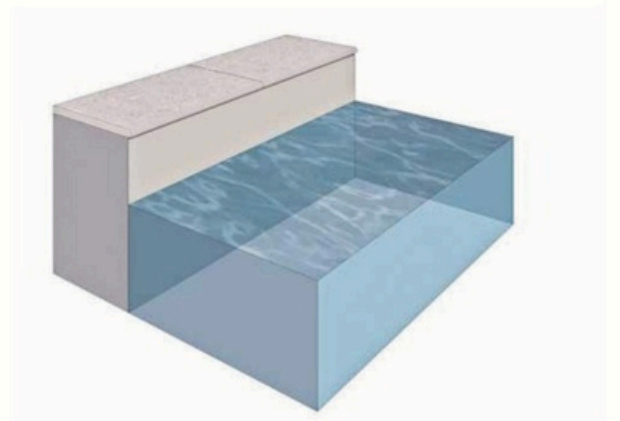
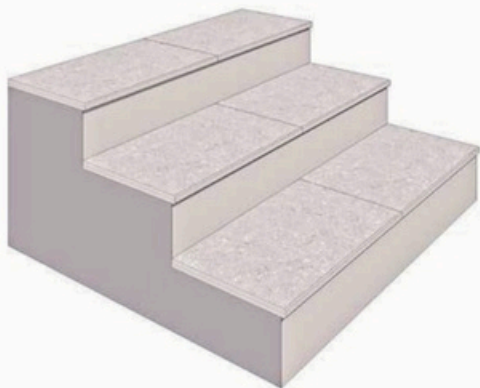
Available in all colors.



FULL BULLNOSE COPING

30x60 - 11 $\frac{3}{4}$ " x 23 $\frac{1}{2}$ "

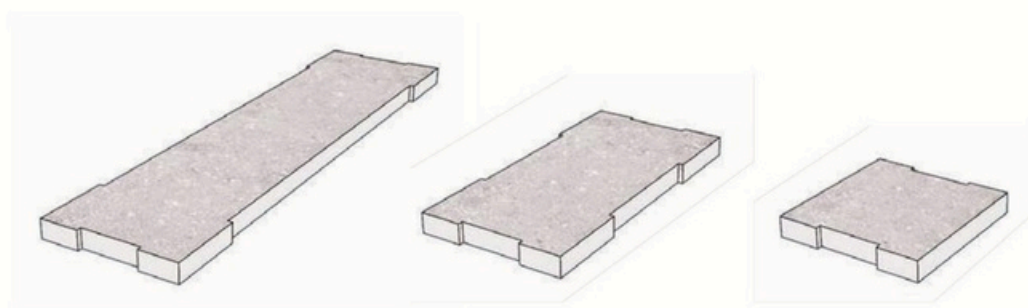
Available in all colours.



BLIND GRID

15x60 cm 6"x24" rectified / 15x30 cm 6"x12" rectified / 15x15 cm 6"x6" rectified

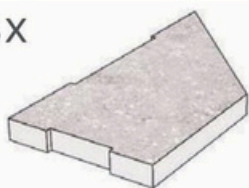
Available in all colours.

**BLIND GRID ANGLE**

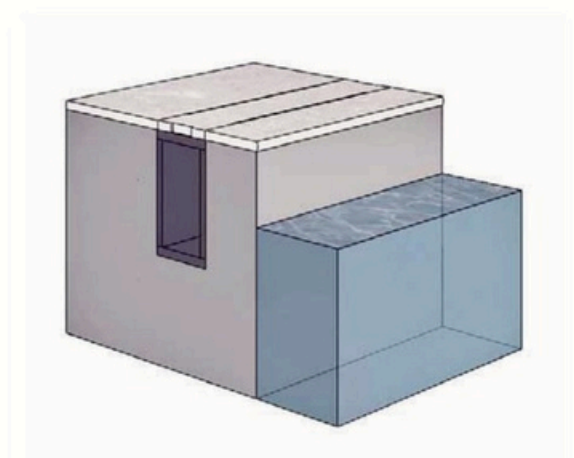
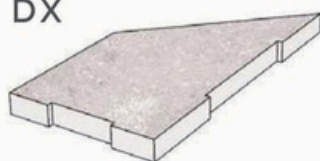
15x15x30 cm 6"x6"x12" rectified

Available in all colours.

SX



DX



2CM PACKAGING

2.0 MONOLITHIC RECTIFIED CERAMIC TILE

	Thickness	Unit / Box	SqFt / Box	Boxes / Pallet	SqFt / Pallet	Weight / Box	Weight / M ²	Weight / SqFt	Weight / Pallet	Pallet Size
23½"x47½"	3/4" - 20mm	2	15.5	16	248	133.765 lb	92.90 lb	8.630 lb	2.165 lb	29"x 49"
11¾"x47½"	3/4" - 20mm	4	15.5	16	248	138.415 lb	96.12 lb	8.93 lb	2.230 lb	29"x 49"
23½"x23½"	3/4" - 20mm	2	7.75	36	279	66.10 lb	91.80 lb	8.530 lb	2.421 lb	42"x 42"
11¾"x23½"	3/4" - 20mm	4	7.75	40	310	65.875 lb	91.50 lb	8.5 lb	2.676 lb	42"x 42"
11¾"x11¾"	3/4" - 20mm	5	4.85	45	218.25	41.50 lb	57.64 lb	8.55 lb	1.910 lb	42"x 42"

SHADE VARIATION

 V1 uniform appearance	 V2 slight variation	 V3 moderate variation	 V4 substantial variation
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2CM TECHNICAL CHARACTERISTICS

STANDARS	CHARACTERISTICS OR PROPERTIES	COMPLIANCE WITH STANDARDS UNI EN 14411 G wASTM	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 1026	Frost resistance	Requested	Complies with standard
ISO - 10545-6 ASTM C - 1243-93	Abrasive wear	<175 mm ²	139 mm ²
ISO - 10545-2	Straightness / ASTM - C 485	+/- 0.75 % (+/- 1.8 mm)	Complies with standard
	Straightness / ISO - 10545-2	+/- 0.5 % (+/- 1.5 mm)	Complies with standard
	Thickness / ASTM - C 499	+/- 1.02 mm	Complies with standard
	Thickness / ISO - 10545-2	+/- 0.5 % (+/- 0.5 mm)	Complies with standard
	Length and width / ASTM - C499	+/- 0.5 % (+/- 2.0 mm)	Complies with standard
	Length and width / ISO - 10545-2	+/- 0.6 % (+/- 2.0 mm)	Complies with standard
ISO - 10545-2 Bending strength in N (thickness >= 7.5 mm)	ASTM - C 648	>= 250 LBF Average	>= 225 LBF Individual
	ISO - 10545-4	>= 1300 Newton	> 13000
ASTM - C 650	Chemical resistance	As reported	Resistant
ISO 10545-14	Resistance to stain	-	5
ISO 10545-13	Chemical resistance	UB min.	UA ULA UHA
ISO 10545-8	Coefficient of linear thermal-expansion	-	$\alpha=6.3 \times 10^{-6} \text{ }^{\circ}\text{C}^{-1}$
ISO 10545-5	Impact resistance	-	0.88
EN 12825	Static load	-	Centre 9.6 Kn Centre point of sides 6.5 Kn Diagonal 8.19 Kn (CLASSE 3)
	Dynamic load capacity - hand object impact test	-	Test not passed
	Dynamic load capacity - soft object impact test	-	Test passed
EN 1339	Bendind strength - breaking force in N	Kn 14.38	classe 14
ENV 12633	Slip resistance	> / = CL1	CL 2
DIN 51130	Slip resistance	-	R11
DIN 51097	Slip resistance	-	A + B + C min.
DM 236/89 B.C.R.A	Slip resistance	-	> 0.40
Static coefficient of friction ASTM 1028-07 BOT 3000 Dynamic coefficient of friction (section 9.6 ANSI A 137.1 2012)	Slip resistance	-	> 0.60 WEST > 0.60 DRY
			> 0.42
EN 13501-1	Fire resistance	-	A1 - A1 FL
*TAS 108 FLORIDA BUILDING CODE WIND UP LIFT TEST	3.4" thick 24"x24" porcelain installed on fixed height pedestals and 45° wind angle was blow of at	-	130 mph with no parapet 150 mpt with 12" high parapet







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