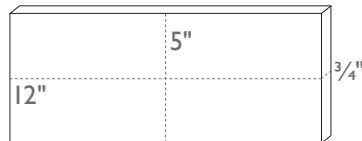
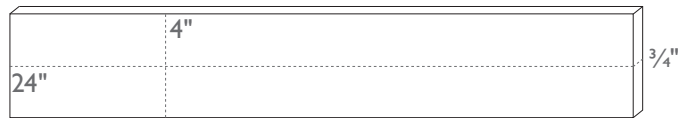
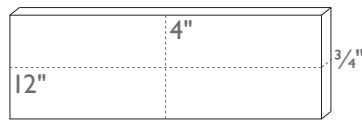
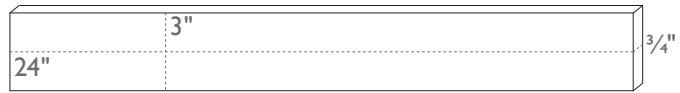
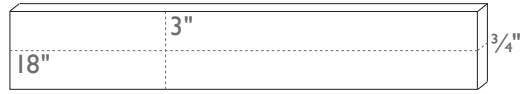
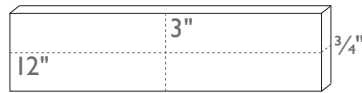


# STRATA LINEA

USAGE	Y/N
interior floor & wall	Y
exterior floor & wall	Y*
residential low traffic	Y
residential high traffic	Y
commercial low traffic	Y
commercial high traffic	Y
radiant heating compatible	Y
fireplace surround	Y
shower	Y
steam shower (resealing yearly)	Y**
fountain	N
freeze thaw	N
pool	N
heat resistant	Y
backsplash	Y
grout type	flexcolor cq
grout joint size	1/16"
UV resistant	Y



Standard thickness for strata is 3/4". Please note all dimensions are nominal and can vary plus or minus 1/8".

\* Exterior walls require vertical weather flashing and waterproof, penetrating sealant. Exterior floors must be installed above grade with waterproof, penetrating sealant. Non freeze/thaw locations.

\*\* Not all steam shower companies can accommodate stone surfaces so be sure to check with your plumber for an appropriate steam shower supplier.



# STRATA LINEA—TRADE

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## INSPECTING YOUR SHIPMENT

- With the Strata Linea collection you will find a polished surface rich with color variation due to the striations and diverse range of tones found in each stone.
- Industry standard suggests adding at least 15% overage due to tile cuts, potential breakage, or future repairs.
- Dust and residue from shipping should be cleaned prior to installing.

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## INSTALLATION

- clé's guides are only to help direct you in the right path for a proper installation. Each project is unique and therefore requires a professional natural stone installer who can provide the exact specifications for your project.
- Please refer to the current edition of the TCNA Handbook for detailed natural stone installation methods for your project's needs.
- Tile is merely the surface of your construction. Installation problems will arise from substrate or construction engineering and/or installation issues. Please refer to your project architect, structural engineer and/or installer to have the best results for your tile finish.
- As is standard in the tile industry, installation deems acceptance of materials. Do not install if there are visible issues. If you have any doubts or are unsure of what qualifies as a visible issue for the tile you are installing, please reach out to us prior to installation. Our tiles are subject to variations in color, texture, size and finish. Do not install if you have any doubts about visible issues. Misuse by contractor or end-user including but not limited to negligence, physical and/or chemical abuse is not covered by clé's warranty.
- **IMPORTANT:** Before installing, make sure to layout your tile and blend so that variations in color and veining are where you would like them to be throughout the installation. Do not install without blending tiles from all boxes.
- Laying out strata is similar to hardwood. Group by color and then mix as you go. We recommend a dry layout first to make sure you have exactly the layout you desire. Layout options could be random, or a color gradation across a floor.
- To ensure proper bonding when setting, we recommend lightly wiping the back of each tile if there is excessive dust.
- Be sure to have 95% or more adhesive on the back of the tile to ensure the best bond when setting the tile.
- To increase slip resistance in wet area applications (especially shower floors), we recommend cutting the planks down to 4"x4", broadening the grout joint size on the setting of the pan tiles or vertical staggering of the tile layout.

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## SEALANT

- Like most natural stone, strata requires sealing (before & after grouting) to prevent staining and help with repelling water.
- Please consult with your natural stone installer on what sealing methods are best for your installation.
- clé ONLY recommends the use of [Miracle 511 Porous Plus](#) for an invisible sealant finish.
- Applying sealant or using a grout release prior to grouting will minimize the risk of grout haze and will allow for easy clean up.
- We recommended sealing the grout lines and tile surface in all applications of strata (dry and wet) as the final step of installation.
- Sealing floors further protects the tiles in moderate traffic areas.

- Always test sealers in a small area to ensure it provides the finish you prefer.
  - For applications in wet areas, specific waterproofing precautions need to be taken such as using a waterproof membrane under the tile and use of Miracle 511 Porous Plus.
  - Single coat reapplication of the penetrating sealant is required once a year in shower applications due to the continuous exposure to water.
  - If your contractor is having any issues or questions regarding this sealant, please have them reach out to Miracle tech support directly at 1-877-385-8155 as they are the best and fastest line of resolution.
  - PLEASE FOLLOW ALL MIRACLE SEALANT INSTRUCTIONS FOR BEST RESULTS as well as MAINTENANCE UPKEEP RECOMMENDATIONS.\*
- \* **HINT:** if water or oil does not bead up on the surface of your tiles then the sealant was not applied properly.

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## GROUT

- clé ONLY recommends [Mapei Flexcolor CQ](#) grout for strata installations. Use of any other grout types can result in installation issues.
- For natural stone, a wide grout joint is not recommended as it will disrupt the variation and flow of tile color, veining and patterns.
- clé recommends a 1/16" grout joint.
- Grout color selection is always up to our client and/or their design professional. However, clé is often asked for our opinion on best grout selections for our tiles. And due to the large array of grout colors that are now available, clé would like to offer this general guideline on a foolproof grout color selection for any of your clé tiles.
  - First, have your professional tile contractor complete your tile installation, except for the grout portion.
  - Next, when ready to grout, ask your contractor to bring ALL grout color charts from his preferred grout manufacturers, for your review.
  - Lastly, choose a time of day when you are most pleased with the lighting in your space (either natural lighting, installed lighting or a blend of both). During that lighting and time of day, select the grout color that best matches your tile selection.
- Note that the full Mapei Mapei Flexcolor CQ color catalogue contains 40 colors to choose from. Visit the [Mapei website](#) to view.
- If you are working with a highly color-variegated tile or a combination of tiles (checkered or otherwise), we recommend that you follow the above recommendations—but match your grout to the color in your varied tile or tile combination that you would most like to accentuate.
- If your contractor is having any issues or questions regarding this grout, please reach out to Mapei tech support directly at 1-800-992-6273 as they are the best and fastest line of resolution.
- **IMPORTANT:** During grout application, immediately remove any excess grout off the face of the tile with a clean, damp cloth/sponge. Do not allow grout to cure on the face of the tile as it could cause grout haze and will be hard to remove.

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## STAINING

- Grout staining is only a problem if the guidelines set for Flexcolor CQ by Mapei aren't followed properly.
- Please make sure to follow the Mapei Flexcolor CQ [application and cleanup instructions](#) to avoid the risk of staining/grout haze and to allow for easy application and cleanability. Read all installation instructions thoroughly before use. Using consistent application procedures will produce consistent results.
- Some of these procedures for Mapei Flexcolor CQ include:
  - During grout application, immediately remove any excess grout off the face of the tile with a clean, damp cloth/sponge.
  - Use a "clean as you go" approach to spreading and washing the grout, to ensure that cleaning begins before the grout skins over and dries on the tile surface.
  - Grout small areas of between 30 to 40 sq. ft. (2.79 to 3.72 m<sup>2</sup>) at a time, so that cleaning can begin before the grout skins over and dries on the tile surface.
  - Change your water bucket frequently to prevent the development of a haze on the tile surface.
- Grout haze left by Mapei Flexcolor CQ can be removed with Mapei Ultracare Heavy-Duty Stone, Tile & Grout Cleaner.
- Should your contractor choose to use another brand of grout other than Mapei Flexcolor CQ, be aware that the dyes used to pigment most grouts can stain the tile.
- If your contractor selects brands other than Mapei grout or Miracle sealant, please have them reach out to the respected representatives of those manufactures for advice and support on failures.

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## EXTERIOR INSTALLATIONS

- **IMPORTANT:** Strata tiles are not freeze thaw rated. Therefore we do not recommend and cannot warrant installing these outdoors in areas that regularly experience freezing temperatures\*
- \* If you plan on installing these outdoors in areas that experience freeze/thaw, we cannot guarantee there won't be installation failures. Installations in freeze/thaw locations require flashing the top of vertical installations to prevent moisture from dripping behind the installation and installing the tiles above grade for horizontal installations. In addition, the installation must be completely sealed and maintained with a waterproof sealant like Miracle 511 Porous Plus.

With application of Miracle Sealant, these tiles can have resistance to freeze/thaw issues. However, oftentimes there are installation failures because the specific installation guidelines and sealant maintenance is not properly followed. But if completed and maintained correctly (see manufacturer's instructions) then you can proceed WITH CAUTION.

If you can comply with all of the above and understand that without the sealant your install won't hold up - then it's up to you to proceed with installing this tile in a freeze/thaw location. We recommend your contractor reach out to both Mapei tech support for installation support and Miracle Sealant tech support on the waterproofing of the tiles.

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## MAINTENANCE

- Over time, a natural patina will occur on floors as they are maintained and naturally wear.
- Topical sealants will require periodic stripping and resealing—please refer to a professional for this.
- Single coat reapplication of the penetrating sealant is required once a year in shower applications due to the continuous exposure to water.  
For superior water repellency in showers, we recommend applying Miracle 511 Impregnator in addition to Miracle 511 Porous Plus.
- For showers, opening windows/doors to help some of the moisture dissipate faster after use will help rid extra moisture.
- Check with the Miracle Sealant tech support directly at 1-877-385-8155 for best advice on maintaining sealants.

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## CLEANING

- The natural stones that make up the strata collection (marble, limestone, travertine, etc.) are chemically sensitive so only mild pH neutral cleaners should be used.
- As with any finely decorated stone product, clé discourages the use of any surface cleansers or scrubbing pads. Cleaning stone requires only mild soap, water and soft cloths.
- Soapless cleaners are preferred because they minimize streaks and film.
- Mild, phosphate-free, biodegradable liquid dishwashing soaps or powders or stone soaps are acceptable if rinsing is thorough.
- Always avoid harsh chemicals and acidic or alkaline cleaning products.
- Showers and baths: soap scum can be minimized by using a squeegee after each use and using liquid as opposed to bar soaps.
- Miracle Tile & Stone Cleaner is effective as an ongoing maintenance cleaner and is gentle for everyday use.
- Vacuum or sweep regularly—abrasive dirt and materials can scratch the surface.
- Non-slip mats or area rugs should be placed inside and outside entrance ways to remove abrasive materials that can scratch and dirty the tile surface. Sand, dirt, and grit do the most damage to natural stone surfaces due to their abrasiveness.
- Dust mop interior floors frequently using a clean, non-treated dry dust mop.
- Interior wall installations can be cleaned with warm water and damp microfiber cloth.
- Grout lines can be cleaned with warm water and a nonmetal bristled cleaning brush.

# STRATA LINEA SPECIFICATIONS

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What's in our tile: Strata Linea is a collection of recycled stone from the Eastern Mediterranean and is the brainchild of Rula Yaghmour, a female Jordanian architect who has taken a simple idea—repurposing stone left over from construction projects—called kutleh (the arabic word for block). While kutleh's projects center around bonding layers of stone into a mass block, clé collaborated with Yaghmour on creating Strata Linea, a tile line of different sized planks that feature the rich variety of leftover, highly sought-after stone.

clé's Strata Linea collection is a new way of blending and layering stones that allow them to reveal the profound beauty of their individual colors and remarkable fossils that have emerged after forming deep within the earth for millions of years. These geologic processes over the long arc of time have created stone in shades from pale white and cream to red, brown, green, grey and gold.

Strata Linea planks are made of stone left over from the production of architectural cladding tiles. the off-cut and surplus material is recycled and reshaped, then gathered into lots rich with color. We've chosen ten types of stone for an array of complementary shades and unique natural patterns.

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## COLOR AND TEXTURE VARIATION

Strata linea are rated V4, T1

Due to the handmade craftsmanship of many of our tiles and the variety of materials used, there are degrees of variation in our tiles color, shade and texture. These differences are more pronounced in certain types of tiles than others, especially in tiles from separate production lots, or “batches”.

The following is a guide for the different degrees of variation that we have assigned our tiles:

### COLOR VARIATION

- V1** low variation
- V2** slight variation
- V3** medium variation
- V4** heavy variation
- V5** extreme variation

### TEXTURE VARIATION

- T1** smooth
- T2** light texture
- T3** medium texture
- T4** heavy texture

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**FLOOR RATING**

Strata Linea is rated IV (can be used for light residential to heavy commercial foot traffic)

- I** light residential (powder room, bathroom floor, dining room, bedrooms, etc.)
- II** heavy residential (entry way, laundry room, kitchen, mudroom, hallway, stairs, etc.)
- III** light commercial (boutique, health offices, hotel bathrooms etc.)
- IV** heavy commercial (hotel lobby, retail, office building, shopping mall, restaurant, etc)
- V** industrial (restaurant kitchen, bar work area, winery production, exterior hotel entry, airport, car showroom, driveway, etc)

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**PRODUCT DESCRIPTION**

Strata Linea is recycled and repurposed natural stone from the surplus produced from cladding tiles used in everyday construction projects.

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**PRODUCT COMPONENTS**

Recycled natural stone—each strata linea bundle is a mix and features ten types of stone: travertine, ajloun, jerusalem, sahrawi, ma'an, karak, beirzeit, daba'a, carrara and crema.

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**DIMENSIONS**

<b>3" bundle</b>	7.6 cm x 30.5 cm x 1.9 cm (3"x 12"x ¾") / approx. 1.25 kg per tile (2.76 lbs)
	7.6 cm x 46 cm x 1.9 cm (3"x 18"x ¾") / approx. 1.88 kg per tile (4.14 lbs)
	7.6 cm x 61 cm x 1.9 cm (3"x 24"x ¾") / approx. 2.50 kg per tile (5.51 lbs)
<b>4" bundle</b>	10.2 cm x 30.5 cm x 1.9 cm (4"x 12"x ¾") / approx. 1.65 kg per tile (3.64 lbs)
	10.2 cm x 46 cm x 1.9 cm (4"x 18"x ¾") / approx. 2.49 kg per tile (5.49 lbs)
	10.2 cm x 61 cm x 1.9 cm (4"x 24"x ¾") / approx. 3.30 kg per tile (7.28 lbs)
<b>5" bundle</b>	12.7 cm x 30.5 cm x 1.9 cm (5"x 12"x ¾") / approx. 2.06 kg per tile (4.54 lbs)
	12.7 cm x 46 cm x 1.9 cm (5"x 18"x ¾") / approx. 3.15 kg per tile (6.94 lbs)
	12.7 cm x 61 cm x 1.9 cm (5"x 24"x ¾") / approx. 4.12 kg per tile (9.08 lbs)

\* Please note all dimensions are nominal and can vary plus or minus ¼".

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**AVERAGE COEFFICIENT OF FRICTION (DCOF ACUTEST)**

For increased slip resistance, planks can be cut down into smaller 4"x4" pieces.

\* Application of Miracle 511 Porous Plus and/or Miracle 511 Impregnator can help increase slip resistance.

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**FREEZE/THAW RESISTANCE (ASTM C1026)**

Strata tiles are not freeze/thaw resistant.

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**WATER ABSORPTION (ASTM C373)**

avg. 1.36%; vitreous

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**ACID RESISTANCE**

Strata is not resistant to acids and only mild, pH neutral cleaners should be used.

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LEED CREDITS

The product is an inherently non-emitting source of VOCs (stone, ceramic, metals, powder-coated metals, plated or anodized metal, glass, cement, clay brick, and unfinished or untreated solid wood) and has no integral organic-based surface coatings, binders, or sealants.

Strata Linea tiles are considered 'inherently non-emitting sources' under the Low-emitting Materials Credit of LEEDv4/v4.1. **This is a credit for our Strata tile that is eligible to be used toward LEED.**

'Inherently non-emitting' means that these tiles types have been shown to not contribute emissions to indoor environments and are therefore exempt from demonstrating compliance with CDPH v1.1-2010 or CDPH v1.2-2017.

Use of these tiles as Wall or Flooring materials should be entered in the LEED v4.1 low-emitting materials calculator and identified as 'inherently non-emitting' in the Products Tab (Column L).

Disclosures for MR Credit Material Ingredient Disclosures under LEEDv4/v4.1, are not available at this time. We are exploring our disclosure options and have not established a timeline for completion.

Disclosures for MR Credit Environmental Product Declarations under LEEDv4/4.1, are not available at this time. We are exploring our disclosure options and have not established a timeline for completion.

Contribution to MR Credit Material Sourcing under LEEDv4/v4.1, applies if there is recycled content, bio-based materials, wood or reused products included in the tile.

**This is a credit for our Strata tile that is eligible to be used toward LEED.**

\*Strata tiles can contribute to two LEEDv4/v4.1 points under the Low-emitting Materials Credit and under the MR Credit Material Sourcing.

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RECYCLED CONTENT

Strata tiles are 100% recycled natural stone.

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PERCENTAGE OF PRE-CONSUMER AND/OR POST-CONSUMER MATERIALS

Strata is made of 100% post-consumer recycled material. See Material Sourcing disclosure above.

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FIRE RATING

Typically, natural stone tile does not need to have fire rating testing performed. It is our understanding from TCNA that the explanation that natural stone is inorganic, inert, and typically free of materials that could burn or produce smoke is generally enough to satisfy a specifier and that testing is not necessary.

Natural stone tile falls under the description, "because stone tile is non-flammable and does not produce smoke in a fire, it inherently meets the flame spread and smoke development requirements of Section 803 of the International Building Code (IBC) for interior wall and ceiling materials."



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## WET AREA APPLICATION

Strata can be installed on backsplashes, bathrooms and showers with application of a waterproofing, penetrating sealant.

When installing, make sure these specific waterproofing precautions are taken:

- A waterproofing, penetrating sealer (Miracle Sealant 511 Porous Plus) is used to seal the tile surface and grouted areas—before and after grouting.
  - To increase slip resistance in wet area applications (especially shower floors), we recommend cutting the planks down to 4"x4", broadening the grout joint size on the setting of the pan tiles or vertical staggering of the tile layout.
  - Single coat reapplication of the penetrating sealant is required once a year in shower applications due to the continuous exposure to water.
  - For superior water repellency in showers, we recommend applying Miracle 511 Impregnator in addition to Miracle 511 Porous Plus.
- \* Strata cannot be used in pools or fountains.