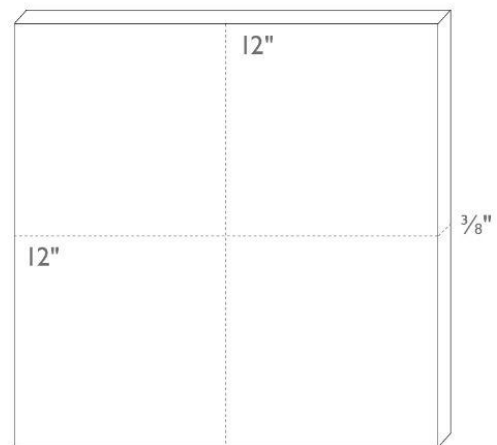


clé LITHOGRAPHY

USAGE	Y / N
interior floor	N*
interior wall	Y*
exterior floor	N
exterior wall	Y*
residential light traffic	N*
commercial light traffic	N
radiant heating compatible	N
fireplace surround	Y
shower wall	Y*
steam shower wall	N
fountain waterlines	N
freeze thaw	N
pool waterlines	N
heat resistant	N
sink backsplash	Y*
stove backsplash	Y*
grout joint size	1/16"
UV resistant	N



Standard thickness for lithography is 3/8".

* Please note all dimensions are nominal. Additionally, dimensions can vary +/- 1/8".

* There are specific installation requirements for this usage. Please discuss with your installer.

clé LITHOGRAPHY

What's in our tile: Lithography, a clé proprietary fine arts process that reproduces high resolution art images onto fine stones like limestone. It is a process that took us several years to develop and allows us to bring artist's works to life, special collaborations and reimagining of classics like malachite or delaware. We use limestone as the medium for our lithography because the white mineral-based tone of limestone is a perfect choice to showcase the artwork. Limestone is a sedimentary rock which makes it highly durable. In fact limestone has been used in construction for centuries dating as far back as the Mayans who built their pyramids with it. European castles and churches built in the Middle Ages feature limestone as do many 19th century landmarks such as Grand Central Station. It is limestone's ability to withstand exposure and its carving properties for decorative elements that have made it such a popular material in construction.

There will be variations in thickness, size, texture, shade and color across production lots or batches. This means that your sample may not be a perfect match with your actual order, and that your add-on order may not be a perfect match to either. **This is the beauty of artisanal tile!**

INSPECTING YOUR SHIPMENT

- Each clé lithography tile is carefully hand crafted by our tile artisans to create a decorative pattern on a smooth, honed stone surface.
 - Due to the handmade production methods, there will be variation in color and pattern. Therefore it is important to blend the tiles from all boxes once they arrive and place them in their installation area to ensure you have the layout you want before installing.
 - Industry standard suggests adding at least 15% overage due to tile cuts, potential shipping breakage, or future repairs.
 - Dust and shipping residue are to be expected and should be cleaned prior to installing.
-

INSTALLATION FYIs

- clé offers general information about our tiles and their unique qualities and usages. Proper installation will only be attained if you have selected a seasoned installer with years of experience with artisan tiles. Any installer without artisan tile experience will not know how to install clé tiles and will likely result in failed installations.
- 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. Misuse by contractor or end-user including but not limited to negligence, physical and/or chemical abuse is not covered by clé's warranty.
- Tile is merely the surface of your construction. Installation problems will arise from inexperienced artisan tile installers, substrate or construction engineering and/or installation issues. Please refer to your project architect,

structural engineer and/or installer for best results. *PLEASE CONFIRM YOUR INSTALLER'S LEVEL OF ARTISAN TILE EXPERIENCE. Your installation will only be as good as your installer.

- Install the tiles as late as possible in the project to minimize the risk of damaging the tile.
- Do not use blue tape or other construction tape during product installation. We cannot guarantee that the tape will not erode or damage our products.
- During installation, only soft cloths are recommended for cleaning the tile surface as well as for ongoing maintenance.
- Please refer to the current edition of the TCNA Handbook for detailed natural stone installation methods for your project's needs.

INSTALLATION AREAS

- Printed Lithography tiles are not suitable for floors and can only be installed on interior and exterior walls. Refer to the "Sealing, Maintenance, and Care" section below for exterior sealing recommendations.
- Unprinted Lithography field tiles can be installed on interior floors in areas with light residential traffic.
- Lithography tiles can be used on fireplace surrounds.
- Lithography tiles can be installed in wet applications, such as backsplashes and shower walls with the application of the clé top coat kit to seal the installation.
- Lithography tiles are not suitable for installations in steam showers, pools, or fountain water lines.
- Lithography tiles cannot be placed where heat is directed on them (inside fireplaces, pizza ovens, oven venting).
- Lithography tiles can be used as a stove backsplash. Please consult with your installer to see if a range splash is required for your installation.
- Lithography tiles are not freeze/thaw resistant.

SEALANT

- clé recommends the use of the clé top coat kit for sealing all applications of Lithography tiles. Please note that the use of any other sealant may strip the hand painted decoration off the surface of the tile.
- We recommend applying a layer of the top coat to the tile surface and grout lines as the final step of installation for interior wall applications.
- We recommend applying 2 coats of the top coat to the tile surface and grout lines as the final step of installation for commercial wall applications where staining is a concern (restaurants, bars) and for exterior walls.
- For applications in wet areas, specific waterproofing precautions need to be taken such as using a waterproof membrane under the tile and sealing the grout lines and the tile surface with an additional application of the top coat as the final step of installation.
- Exterior walls installations require vertical weather flashing at the top and application of the clé top coat kit.

GROUT

- clé recommends Mapei Flexcolor CQ grout to reduce the risk of grout haze and staining. Make sure to always follow the manufacturer's instructions. Letting the grout sit for even a short period of time can be problematic.
- For patterns lithographed on stone, a wide grout joint is NOT recommended. A tight grout joint will ensure that the artwork has a continuous design flow.
- clé recommends a 1/16" grout joint.
- Do not apply a grout release or sealant prior to grouting as it may damage the decoration.
- 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.
- 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 contact.
- If you are working with highly color-variegated tiles or a combination of tiles, we recommend that you follow the above recommendations—but match your grout to the color in your installation that you would like to accentuate.
- We recommend carefully finger grouting to keep grout in the joints and off the surface of the decorative tiles.
- You may find it easiest to employ this grouting method by using a grout bag for applying the grout into the joint and finalizing the grout finish with your finger or a soft, wet cloth. Any grout film left on the surface of the tile will damage the tile.
- Once a clé tile Lithography installation has been completely grouted, it is required that the installer clean any residual grout off of the surface of the tiles carefully while the grout is still wet. It is important to keep the surface of the tile clean.

CLEANING

- As with any finely decorated stone product, clé warns against the use of any surface cleansers or scrubbing pads, for maintenance cleaning or during the installation process.
- Cleaning Lithography only requires the use of mild soap, water and soft cloths in most cases.
- Lithography tiles are chemically sensitive. Do not use any cleaners that are not pH neutral and 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.

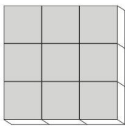
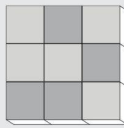
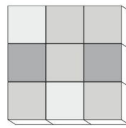
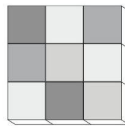
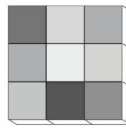

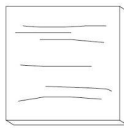
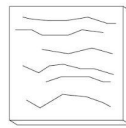
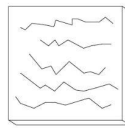
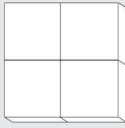
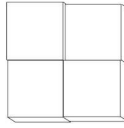
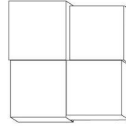
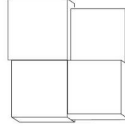
ADDITIONAL SPECIFICATIONS

COLOR, TEXTURE AND SIZE VARIATION

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”. This makes it unlikely that your sample will be a perfect match with your actual order or that your add-on order will be a perfect match to your first order.

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

Lithography is rated ‘level 2 slight’ for color variation, ‘level 1 smooth’ for texture variation, and ‘level 1 slight’ for size variation.

CATEGORY	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5
COLOR VARIATION	 <p>low</p>	 <p>slight</p>	 <p>medium</p>	 <p>heavy</p>	 <p>extreme</p>
TEXTURE VARIATION	 <p>smooth</p>	 <p>slight</p>	 <p>medium</p>	 <p>heavy</p>	n/a
SIZE VARIATION	 <p>slight</p>	 <p>medium</p>	 <p>heavy</p>	 <p>extreme</p>	n/a

FLOOR RATING

Unprinted Lithography field tile is rated I (can be used for light residential foot traffic). Printed Lithography tiles are not suitable for floors and can only be installed on interior and exterior walls.

I light residential

for residential areas with light foot traffic. examples can include bathroom, bedroom, formal dining and living rooms. please note the following:

- not suitable for shoes with hard sole profiles (cleats, stilettos, etc.)
- the floor must be kept clean from abrasive debris (gravel, mud, salt, etc.)
- immediately clean all stains (food, personal and household care products, oils, paints, chemicals etc.)

II heavy residential

for residential areas with continuous foot traffic. examples can include entry, hallway, kitchen, foyer, laundry and mud rooms. please note the following:

- the floor must be kept clean from abrasive debris (sand, gravel, mud, salt, etc.)
- immediately clean all stains (food, personal and household care products, oils, paints, chemicals etc.)

III light commercial

for commercial areas with light foot traffic. examples can include commercial offices, doctor's offices and boutiques. please note the following:

- the floor must be kept clean from abrasive debris (sand, gravel, mud, salt, etc.)
- immediately clean all stains (food, personal and household care products, oils, paints, chemicals etc.)

IV heavy commercial

for commercial areas with continuous foot traffic. examples can include hotel lobby, retail, corridors in an office building, shopping mall and restaurant. please note the following:

- the floor must be kept clean from abrasive debris (sand, gravel, mud, salt, etc.)
- immediately clean all stains (food, personal and household care products, oils, paints, chemicals etc.)

V industrial

standard industrial floor use with no extreme, heavy breakage or spillage. examples can include restaurant kitchen, bar work area, winery production, exterior hotel entry, airport, car showroom, driveway. please note the following:

- the floor must be kept clean from abrasive debris (sand, gravel, mud, salt, etc.)
- immediately clean all stains (food, personal and household care products, oils, paints, chemicals etc.)

PRODUCT DESCRIPTION

Hand lithographed artist images on honed limestone.

PRODUCT COMPONENTS

Honed limestone, ink.

DIMENSIONS

Printed Tiles	30.5 cm x 30.5 cm x 0.95 cm (12" x 12" x 3/8") / 2.3 kg per tile (5 lbs)
Field Tiles	30.5 cm x 30.5 cm x 0.95 cm (12" x 12" x 3/8") / 2.3 kg per tile (5 lbs)

* Please note all dimensions are nominal and can vary +/- 1/8".

FREEZE/THAW RESISTANCE (ASTM C1026)

Lithography tiles are not freeze/thaw resistant.

WATER ABSORPTION (ASTM C373)

Honed limestone substrate—avg. 4.78%; semi-vitreous

RADIANT HEAT COMPATIBLE

Lithography tiles are not radiant heat compatible.

ACID RESISTANCE

Lithography tiles are not resistant to acids and only mild, pH neutral cleaners should be used.

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

'Inherently non-emitting' means that these tile 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 hope to have these available Q1/Q2 of 2020.

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.

RECYCLED CONTENT

There is no recycled content in our lithography tiles at this time. See Material Sourcing disclosure above.

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

There is no pre-consumer or post-consumer material content in our lithography tiles at this time. See material sourcing disclosure above.

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." Please follow the link for a TCNA document supporting this and many other positive attributes to using natural stone tiles. TCNA Bulletin: Ceramic Tile for a Safe & Healthy Home.

