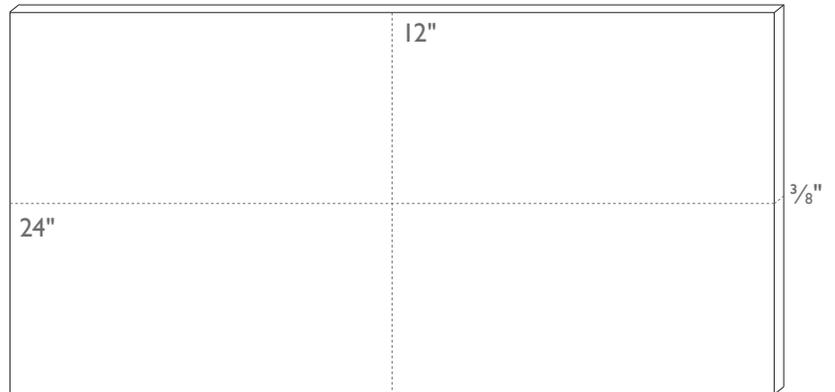
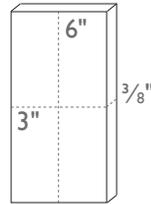
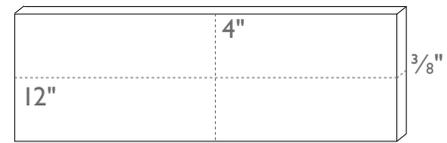
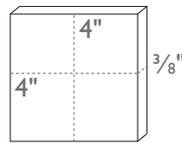
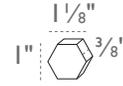
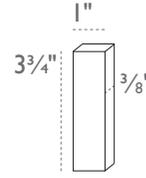
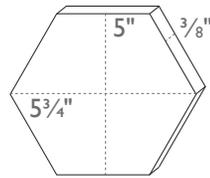


clé BASICS CARRARA

USAGE	Y/N
interior floor	Y*
interior wall	Y*
exterior floor	Y*
exterior wall	Y*
residential heavy traffic	Y
commercial light traffic	Y
radiant heating compatible	Y
fireplace surround	Y
shower	Y*
steam shower	N
fountain	N
freeze thaw	N
pool	N
heat resistant	Y*
sink backsplash	Y*
stove backsplash	Y*
grout type	flexcolor cq
grout joint size	1/8"
UV resistant	Y



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

* There are specific installation requirements for this usage, read more information under the installation, sealing, grout, and wet area application sections of this document

clé BASICS CARRARA—TRADE

INSPECTING YOUR SHIPMENT

- With the clé basics carrara collection you will find a smooth honed surface with delicate gray veining.
- **IMPORTANT:** Due to the color and shade variations, it is very 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 breakage, or future repairs.
- Dust and residue from shipping should be cleaned prior to installing. This can be done by simply wiping the back of each tile lightly with a damp sponge or soft cloth.

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 lay out your tile and blend so that variations in color and veining are where you would like them to be and are evenly distributed throughout the installation. Do not install without blending tiles from all boxes.
- Carrara cannot withstand being exposed directly to fire but can withstand high heat and temperatures.
- 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 tiles 8"x8" or larger.
- Trim is unnecessary for carrara tiles. They merely need to be finished along the exposed edge by honing it to match the surface of the marble.
- Please note all carrara contains naturally occurring iron deposits that can cause rust spots activated by trapped moisture.
 - Do not soak carrara tiles or subject them to excessive moisture prior to installation and setting as this can cause iron spotting to occur. Additionally, do not seal tiles if there is any excess moisture as this will trap moisture in the tile and create new staining probabilities.

SEALANT

- Like most natural stone, carrara 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 carrara (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.
- 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 and oil do not bead up on the surface of your tiles then the sealant was not applied properly.

GROUT

- clé ONLY 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 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 1/8" grout joint.
- Penny rounds, 1" hexagon mosaics and 1"x3 3/4" herringbone mosaics come mounted on mesh sheets and will have a fixed 1/16" grout joint. 5" hexes come mounted on mesh sheets and will have a fixed 1/8" 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 Flexcolor CQ color catalogue contains 40 colors to choose from. Visit the [Mapei website](#) to view.
- 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.

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 m²) 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.
- Any grout haze left by Mapei Flexcolor CQ can be removed with [Mapei Ultra-care Heavy-Duty Stone, Tile & Grout Cleaner](#).

EXTERIOR INSTALLATIONS

- **IMPORTANT:** Carrara 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 weather resistant 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.

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.

CLEANING

- Carrara is chemically sensitive so only mild pH neutral cleaners should be used.
- As with any 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.
- clé recommends the use of Miracle Porcelain & Ceramic Tile Cleaner to remove stubborn stains, grease build up, soap scum, hard water deposits and everyday grime.
- 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.

clé BASICS CARRARA SPECIFICATIONS

What's in our tile: Honed white marble with delicate gray veining formed from the historic carrara stone quarried from the majestic mountains of Carrara, Italy. Our clé basics carrara collection is a classic white stone with a mixed fleuri and vein cut that blends to create subtle yet distinctive patterns.

COLOR AND TEXTURE VARIATION

clé basics carrara is rated V3, T1

Carrara will exhibit degrees of variation in color and shade. As our tiles are cut from large blocks of carrara, there is also variation between batches that will be hard to match with an add on order, please keep this in mind when calculating your order, and be sure to purchase enough material.

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

FLOOR RATING

clé basics carrara is rated III (can be used for light residential to light commercial foot traffic)

- 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 office, doctor's office and boutique. 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

Honed white marble

PRODUCT COMPONENTS

Natural stone

DIMENSIONS

Hex	12.7 cm x 12.7 cm x 0.95 cm per tile—25.4 cm x 33 cm sheet (5" x 5 3/4" x 3/8" per tile—10" x 13" sheet) / 6 tiles per sheet / .35 kg per tile (.76 lb); straight rectified
Square	10.2 cm x 10.2 cm x 0.95 cm (4" x 4" x 3/8") / .29 kg per tile (.63 lb); straight rectified
Subway	7.6 cm x 15.2 cm x 0.95 cm (3" x 6" x 3/8") / .3 kg per tile (.66 lb); straight rectified
Beveled Subway	7.6 cm x 15.2 cm x .95 cm (3" x 6" x 3/8") / .27 kg per tile (.61 lb); straight rectified
Oversized Subway	15.2 cm x 30.5 cm x .95 cm (6" x 12" x 3/8") / 1.25 kg per tile (2.75 lbs); straight rectified
Plank	10.2 cm x 30.5 cm x .95cm (4" x 12" x 3/8") / .8 kg per tile (1.75 lbs); straight rectified
Large Field Tile	30.5 cm x 61 cm x .95 cm (12" x 24" x 3/8") / 5 kg per tile (11 lbs); straight rectified
Herringbone Mosaics	2.5 cm x 9.5 cm x .95 cm per tile—30.5 cm x 30.5 cm sheet (1" x 3 3/4" x 3/8" per tile—12" x 12" sheet) / 32 tiles per sheet / 2 kg per sheet (4.5 lbs); straight rectified
Penny Round	1.9 cm x 1.9 cm x .95 cm per tile—30.5 cm x 30.5 cm sheet (3/4" x 3/4" x 3/8" per tile—12" x 12" sheet) / 240 tiles per sheet / 1.7 kg per sheet (3.75 lbs); straight rectified
Hexagon Mosaics	2.5 cm x 2.9 cm x .95cm per tile—30.5 cm x 30.5 cm sheet (1" x 1 1/8" x 3/8" per tile—12" x 12" sheet) / 132 tiles per sheet 1.7 kg per sheet (3.75 lbs); straight rectified

* Please note all dimensions are nominal and can vary plus or minus 1/4".

AVERAGE COEFFICIENT OF FRICTION (DCOF ACUTEST)

“Wet Dynamic Coefficient of Friction” (DCOF)—avg. 0.42. Testing was performed on 12"x12"x3/8" tile*

* Smaller sized tiles, penny rounds and mosaics will have a higher DCOF. Application of Miracle 511 Porous Plus and/or Miracle 511 Impregnator can help increase slip resistance.

FREEZE/THAW RESISTANCE (ASTM C1026)

clé basics carrara is not freeze/thaw resistant.

WATER ABSORPTION (ASTM C373)

avg. 6.5%; semi-vitreous

ACID RESISTANCE	<p>clé basics carrara is not resistant to acids and only mild, pH neutral cleaners should be used.</p>
LEED CREDITS	<p>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.</p> <p>Carrara tiles are considered ‘inherently non-emitting sources’ under the Low-emitting Materials Credit of LEEDv4/v4.1. This is the only credit for our carrara tile that is eligible to be used toward LEED.</p> <p>‘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.</p> <p>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).</p> <p>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.</p> <p>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.</p> <p>Contribution to MR Credit Material Sourcing under LEEDv4/v4.1, does not apply as there is no recycled content, no bio-based materials, no wood, no reused products included in our tile at this time. Extended producer responsibility programs are highly difficult to manage given the nature of end-of-use tile removal methods. <i>Tile can last hundreds of years but fashions often change, which is the dominant reason for its removal. We work hard to ensure our stone tiles can withstand the test of time while remaining timeless.</i></p>
RECYCLED CONTENT	<p>There is no recycled content in our carrara tiles at this time. See Material Sourcing disclosure above.</p>
PERCENTAGE OF PRE-CONSUMER AND/OR POST-CONSUMER MATERIALS	<p>There is no pre-consumer or post-consumer material content in our tiles at this time. See Material Sourcing disclosure above.</p>
FIRE RATING	<p>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.</p> <p>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.”</p>

WET AREA APPLICATION

Carrara 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 waterproof membrane is used under the tile and a waterproof, penetrating sealer is used to seal the grouted areas and the tile surface. clé recommends using Miracle Sealant 511 Porous Plus.
 - To increase slip resistance on shower floors, larger carrara tiles can be "scored" with a tile blade in desired increments to create grooves on the surface. Please refer to a professional stone installer for this.
 - Vertical staggering of the tile layout for 4" x 4" tiles can help increase slip resistance.
 - Single coat reapplication of the penetrating sealer 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.
- * Carrara cannot be used in pools or fountains.
- * Carrara is not recommended for steam shower use.