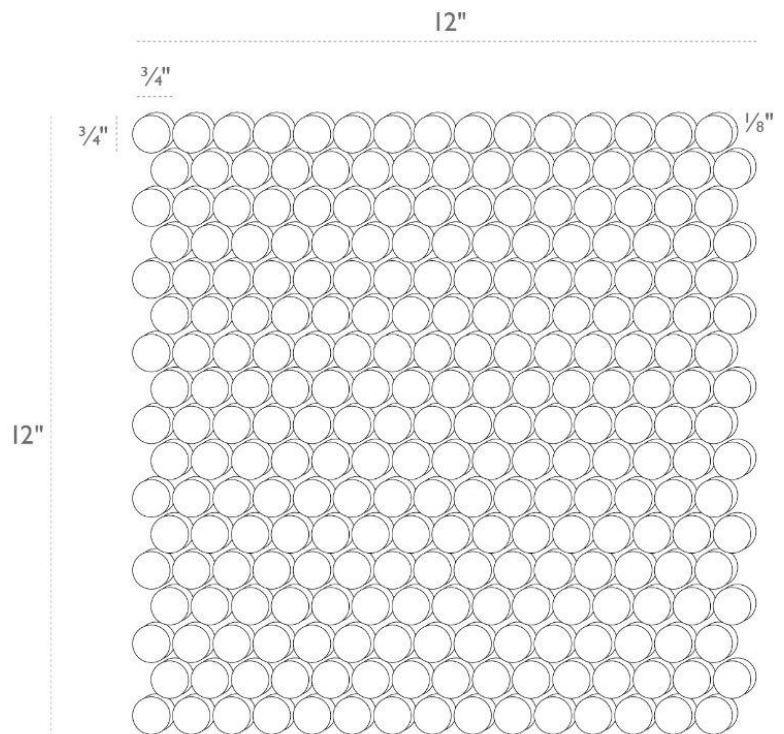


PENNY ROUNDS

USAGE	Y/N
interior floor	Y*
interior wall	Y*
exterior floor	Y*
exterior wall	Y*
residential heavy traffic	Y
commercial heavy traffic	Y
radiant heating compatible	Y
fireplace surround	Y
shower	Y*
steam shower	Y*
fountain	Y*
freeze thaw	Y
pool	Y*
heat resistant	Y
sink backsplash	Y*
stove backsplash	Y*
grout type	ultracolor plus fa & flexcolor cq
grout joint size	1/16"
UV resistant	Y



Standard thickness of penny rounds is 1/8".

Please note all dimensions are nominal. Additionally, dimensions between tiles can vary +/- 1/8 inch.

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

PENNY ROUNDS

INSPECTING YOUR SHIPMENT

- Penny rounds have low color and shade variation but it is still 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. Do not install without blending tiles from all boxes.
- 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 with a damp sponge or microfiber cloth.

INSTALLATION

- 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.
- 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.
- 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 who can provide the exact specifications for your project.
- Please refer to the current edition of the TCNA Handbook for best installation results and ANSI A137.1 American National Standard Specifications for Ceramic Tile to reference for specifications.
- **DO NOT USE TAPE** during product installation, or otherwise. We cannot guarantee our products' safety against various construction tapes—INCLUDING BLUE TAPE.

SEALANT

- clé only recommends the use of Miracle 511 Porous Plus for an invisible sealant finish.
- Always test sealers in a small area to ensure it provides the finish you prefer.
- Penny rounds are nonporous and do not need to be sealed before grouting or as the final step of installation in dry installations.
- However we recommend sealing floors to further protect the tiles in moderate traffic areas as the final step of installation.
- In wet areas (backsplashes, showers, steam showers, pool & fountain water lines) the grout lines must be sealed as the final step of installation. Sealant will not penetrate the tile surface but it will penetrate and protect grouted areas.

- 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 grout lines then the sealant was not applied properly.

GROUT

- clé recommends the use of Mapei Ultracolor Plus FA grout for gloss subway and Mapei Flexcolor CQ for matte subway.
Use of any other grout types can result in installation issues.
- Penny rounds come mounted on mesh sheets and will have a fixed 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 Ultracolor Plus FA & 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 contact.
- 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.

STAINING

- Grout staining is only a problem if the guidelines set for Ultracolor Plus FA by Mapei aren't followed properly.
- Please make sure to follow the Mapei Ultracolor Plus FA application and cleanup instructions and Mapei Ultracolor Plus FA 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.
 - Some of these procedures for Mapei Ultracolor Plus FA include:
 - Spread Ultracolor Plus FA immediately into the joints with a rubber grout float. Make sure that all joints are well-compacted and free of voids and gaps.
 - Remove excess grout from the tile surface, moving the grout float diagonally to the joints while Ultracolor Plus FA is still fresh.
 - After the grout has set (follow proper setting time) use two buckets of cleaning water: One for rinsing the majority of the grout residue from the grout sponge, and one for moistening the sponge in clean water.
 - Change your water buckets frequently to prevent the development of a haze on the tile surface. To prevent discoloration and soft/powdery joints, avoid cleaning with excessive water.
 - 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.
-

WET AREA APPLICATION

Penny rounds can be installed on backsplashes, in showers, steam showers and submerged pools and fountains 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 water resistant, penetrating sealer (Miracle Sealant 511 Porous Plus) is used to seal the grouted areas. Sealant will not penetrate the glazed tile surface but it is important that all grouted areas are sealed.
 - Single coat reapplication of the penetrating sealant is required once a year on all grout lines in shower applications due to the continuous exposure to water.
 - Reapplication is needed more frequently for steam shower and pool/fountain installations. Please refer to a professional for this.
 - For pools and fountains, contact Mapei at 1-800-992-6273 (U.S. and Puerto Rico) or 1-800-361-9309 (Canada) and Miracle Sealant tech support directly at 1-877-385-8155 for best waterproofing application methods and maintenance requirements.
-

MAINTENANCE

- Single coat reapplication of the penetrating sealant is required once a year on all grout lines in shower applications due to the continuous exposure to water.

- Reapplication is needed more often if installation is in a steam shower or pool/fountain. Please refer to a professional for this.
 - For steam 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 applying and maintaining sealants.
-

CLEANING

- Penny rounds require minimal maintenance. Mild, pH neutral soaps and a scrub sponge should be sufficient for most cleaning.
- Penny rounds can withstand common cleaners like bleach, soft scrub cleansers, and multipurpose cleaners. Cleaners should be tested before use, as all tiles (glazed or otherwise) can be damaged through rigorous cleaning processes utilizing harsh cleansers or scrub pads.
- Shower installations should be squeegeed after each use to prevent hard water stains, soap scum and mildew.
- 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.
- Grout lines can be cleaned with warm water and a soft bristled cleaning brush.

TRADE SPECIFICATIONS

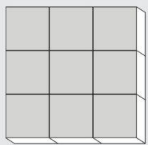
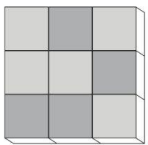
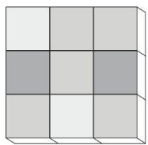
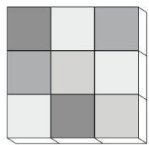
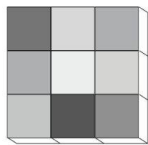

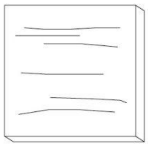
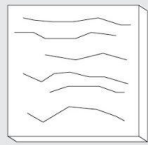
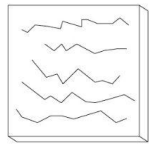
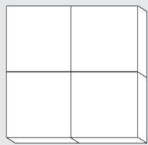
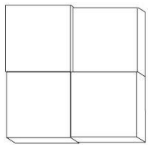
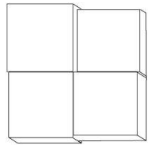
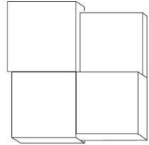
What's in our tile: Penny rounds continue to be a staple for use in walls and floors. Capable of offering the great style and durability of mosaic tiles, penny rounds also have an enduring twist of mid-century styling. For floors, they provide a great slip resistant surface that can be easily molded around curbs and rounded surfaces. For walls, penny rounds offer a visual texture that is meticulous and refined.

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”.

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

Porcelain Penny Rounds are rated ‘level 1 low’ for color variation. Gloss finishes are rated ‘level 1 smooth’, and matte finishes are rated ‘level 3 medium’ for texture variation. All Penny Rounds tiles are rated ‘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 (for gloss)</p>	 <p>slight</p>	 <p>medium (for matte)</p>	 <p>heavy</p>	n/a
SIZE VARIATION	 <p>slight</p>	 <p>medium</p>	 <p>heavy</p>	 <p>extreme</p>	n/a

FLOOR RATING

Porcelain gloss and matte penny rounds are rated IV (can be used for light residential to heavy 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

A tile staple for walls and floors.

PRODUCT COMPONENTS

Porcelain

DIMENSIONS

Penny rounds	1.9 cm x 1.9 cm x .32 cm per tile - 30.5 cm x 30.5 cm per sheet, 255 pieces per sheet ($\frac{3}{4}$ " x $\frac{3}{4}$ " x $\frac{1}{8}$ " per tile - 12" x 12" per sheet, 255 pieces per sheet) / .82 kg per sheet (1.8lbs)
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* Please note all dimensions are nominal. Additionally, dimensions between tiles can vary +/- $\frac{1}{8}$ inch.

AVERAGE COEFFICIENT OF FRICTION (DCOF ACUTEST)

Penny rounds inherently provide a high DCOF/slip resistance due to the small surface area of tile and large area of grout used.

FREEZE/THAW RESISTANCE (ASTM C1026)

Penny rounds are freeze/thaw resistant.

WATER ABSORPTION (ASTM C373)

<0.5%; impervious

ACID RESISTANCE

Penny rounds are not resistant to acids and should be cleaned with pH neutral cleaners.

LEED CREDITS

The product is an inherently non-emitting source of VOCs (stone, ceramic, porcelain, 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.

Penny rounds are considered 'inherently non-emitting sources' under the Low-emitting Materials Credit of LEEDv4/v4.1.

This is currently the only credit for our penny rounds 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 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, 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. *Tile can last hundreds of years but fashions often change, which is the dominant reason for its removal. We work hard to ensure our porcelain tiles can withstand the test of time while remaining timeless.*

RECYCLED CONTENT

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

FIRE RATING

Typically, porcelain tile does not need to have fire rating testing performed. It is our understanding from TCNA that the explanation that porcelain 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. Also, the temperatures observed in the testing are typically lower than the temperatures at which porcelain tiles are fired.

Porcelain tile falls under the description, "because porcelain 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."

