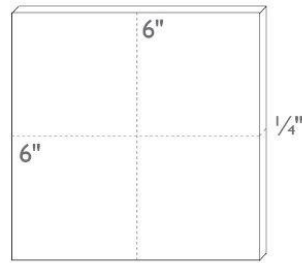


# clé BASICS CERAMIC SUBWAY TILE

USAGE	Y/N
interior floor	N
interior wall	Y*
exterior floor	N
exterior wall	N
residential light traffic	N
commercial light traffic	N
radiant heating compatible	n/a
fireplace surround	Y
shower wall	Y*
steam shower wall	Y*
fountain waterline	Y*
freeze thaw	N
pool waterline	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 for Subway is 1/4".** Please note all dimensions are nominal. Additionally, dimensions between tiles can vary +/- 1/8 inch.

- 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 CERAMIC SUBWAY TILE

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## INSPECTING YOUR SHIPMENT

- Subway tiles 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.

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## 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.
- Be sure to have 95% or more adhesive on the back of the tile to ensure the best bond when setting.
- **DO NOT USE TAPE** during product installation, or otherwise. We cannot guarantee our products' safety against various construction tapes— **INCLUDING BLUE TAPE.**

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## 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.
- We recommend applying sealant or using a grout release prior to grouting if the tile has visible crazing.
- **IMPORTANT:** If clé ceramic Subway tiles are being grouted with a contrasting grout color vs. a matching one, then you must also apply a penetrating sealant or grout release prior to grouting in order to minimize the possibility of the contrasting grout curing in the inherent hairline cracks.
- Dry applications do not need to be sealed as the final step of installation.

- In wet areas (backsplashes, shower walls, steam shower walls, pool and fountain waterlines) grout lines and areas of visible crazing must be sealed as the final step of installation. Sealant will not penetrate the glazed tile surface but it will penetrate and protect grouted areas and any crazing that reaches the clay body.
  - 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.

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## 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.
- 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 Ultracolor Plus FA & Flexcolor CQ color catalogue contains 40 colors to choose from. Visit the Mapei website to view.
- 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.
- **IMPORTANT:** If the Subway tile you have selected has visible crazing we recommend applying a grout release or sealant prior to grouting. If you are using a contrasting grout color, you must make sure to apply a grout release or sealant prior to grouting.
- 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.

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## STAINING

- Grout staining is only a problem if the guidelines set for Flexcolor CQ and Ultracolor Plus FA by Mapei aren't followed properly.

- Please make sure to follow the Mapei Flexcolor CQ 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 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.
- 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.

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## WET AREA APPLICATION

Subway tiles can be installed on backsplashes, shower walls, steam shower walls pool and fountain waterlines\* 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 and stain 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 superior water repellency in showers and steam showers, we recommend applying Miracle 511 Impregator in addition to Miracle 511 Porous Plus.

- 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.
  - \* We only recommend non-freeze thaw locations for pool and fountain waterlines.
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## MAINTENANCE

- Single coat reapplication of the penetrating sealant is required once a year on all grout lines in shower wall applications due to the continuous exposure to water.
  - Reapplication is needed more often if installation is in a steam shower wall or pool/fountain waterline. 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.
  - For superior water repellency on steam shower walls we recommend applying Miracle 511 Impregnator sealant in addition to 511 Porous Plus.
  - Check with the Miracle Sealant tech support directly at 1-877-385-8155 for best advice on applying and maintaining sealants.
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## CLEANING

- Subway tiles require minimal maintenance. Mild, pH neutral soaps should be sufficient for most cleaning.
- Subway tiles 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.
- Clean using soft materials, like a microfiber cloth, instead of coarse materials.
- Shower wall 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: White Subway tile has been de rigueur for tiled walls for decades now. It continues to be a staple, and here at clé we like to call it the jeans and t-shirts of tile. It goes with everything and is an absolute essential.

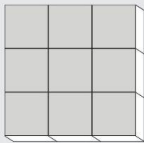
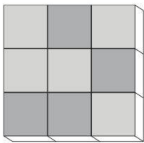
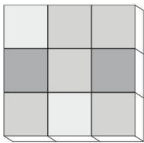
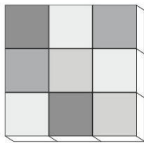
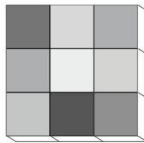

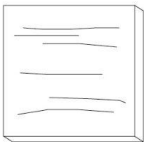
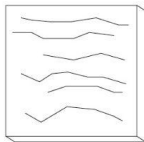
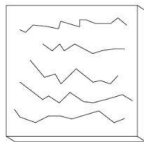
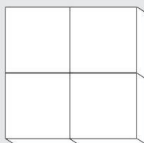
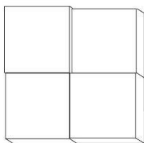
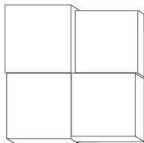
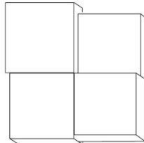
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## COLOR, TEXTURE AND SIZE VARIATION

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”.


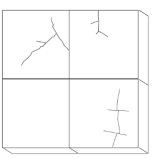
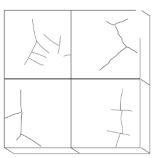
The following is a guide for the different degrees of variation that we have assigned our tiles:

Ceramic Subway tiles are rated ‘level 1 low’ 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

## Imperfections:

Ceramic Subway is rated 'level I light' for crazing.

	LEVEL 1	LEVEL 2	LEVEL 3
CRAZING	 light	 medium	 heavy

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## FLOOR RATING

N/A—Subway tiles are for interior wall applications only.

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## PRODUCT DESCRIPTION

A tile staple for interior walls. Offered in black, white and flat or beveled edge.

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## PRODUCT COMPONENTS

Clay

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## DIMENSIONS

Subway	5.8 cm x 20.3 cm x .63 cm (2" x 8" x 1/4") / .12kg per tile (.27 lb) 7.6 cm x 15.2 cm x .63 cm (3" x 6" x 1/4") / .12 kg per tile (.27 lb) 10.2 cm x 20.3 cm x .63 cm (4" x 8" x 1/4") / .22 kg per tile (.5 lb) 7.6 cm x 30.5cm x .63 cm (3"x12"x1/4") / .30 kg per tile (.67 lb) 10.2 cm x 30.5 cm x .63 cm (4" x 12" x 1/4") / .38 kg per tile (.85 lb)
Square Subway	15.2 cm x 15.2 cm x .63 cm (6" x 6" x 1/4") / .22 kg per tile (.5 lb)

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

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## AVERAGE COEFFICIENT OF FRICTION (DCOF ACUTEST)

"Wet Dynamic Coefficient of Friction" (DCOF) / N/A—DCOF testing is not performed as this is strictly a wall tile.

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## FREEZE/THAW RESISTANCE (ASTM C1026)

Subway tiles are not freeze/thaw resistant.

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## WATER ABSORPTION TEST (ASTM C373)

avg. 10-15%; non-vitreous

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## ACID RESISTANCE

Subway tiles are not resistant to acids and should be cleaned with pH neutral cleaners.

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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.

Ceramic Subway tiles are considered 'inherently non-emitting sources' under the Low-emitting Materials Credit of LEEDv4/v4.1. **This is currently the only credit for our Subway 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 have not established a timeline for completion.

Disclosures for MR Credit Environmental Product Declarations under LEEDv4/v4.1, 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 ceramic tiles can withstand the test of time while remaining timeless.*

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## RECYCLED CONTENT

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



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

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

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## FIRE RATING

Typically, ceramic tile does not need to have fire rating testing performed. It is our understanding from TCNA that the explanation that ceramic 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 ceramic tiles are fired.

Ceramic tile falls under the description, "because ceramic 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."