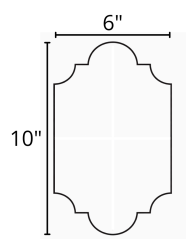
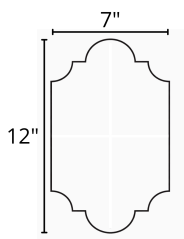


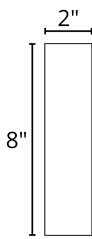
encaustic cement



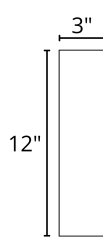
small lantern



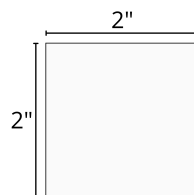
large lantern



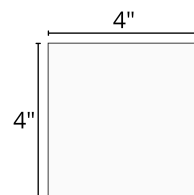
cigar



blade

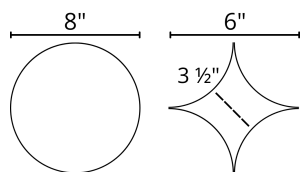


pixie



petite

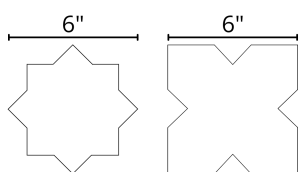
globes duo (bundle)



circle

losange

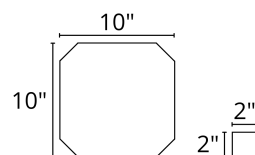
grand ensemble (bundle)



star

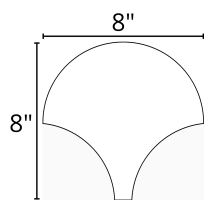
cross

paradiso (bundle)

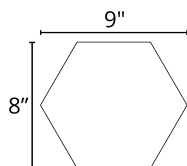


octagon

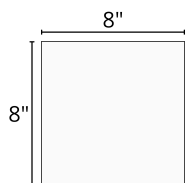
bouchon



scallop



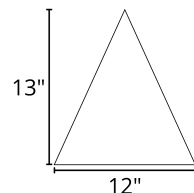
hex



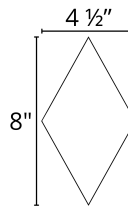
stout



mason



triangle+



diamond+

+made to order

standard thickness for cement under 12" x 12" is 5/8". standard thickness for cement over 12" x 12" is 3/4".

please note all dimensions are nominal and may vary +/- 1/8 inch. graphics are not to scale

USAGE	walls			floors						traffic rating			
	grout joint	interior	exterior	interior	exterior	entryway	mudroom	bathroom	kitchen	light res.	heavy res.	light comm.	heavy comm.
	1/16"	Y	Y*	Y	Y*	Y*	Y*	Y*	Y*	Y	Y	Y	Y

USAGE	shower		steam shower						resistant		fireplace		
	floors	walls	floors	walls	fountain	pool	waterline	freeze thaw	UV	heat	surround + hearth	backsplash	radiant heating
	Y*	Y*	N	N	N	N	N	N	N	Y	Y*	Y*	Y

*there are specific installation requirements for this usage.

review the ["installation areas"](#) and ["grout"](#) sections below, and discuss with your installer.

encaustic cement

you've got something special. our encaustic cement tiles are made by pouring materials into a mold, then hydraulically pressed and stacked in a water bath to cure. therefore, no fossil fuels are burned during production. they are processed in a way that allows them to be free of energy costs involved in the firing process of ceramic tiles. created using basic earth components—natural pigments mixed with ground marble dust, white portland cement and sand, the end result is a durable, safe and long lasting tile.

our cement tiles are made up of three different layers:

- top layer = known as the 'color' and design layer is made of natural pigments mixed with ground marble dust and the finest white portland cement.
- middle layer = a mortar made of fine sand and portland cement that provides for compression reinforcement for heavy traffic and furniture.
- bottom layer = solid concrete, strong and porous for impact strength before and after installation.

due to the craftsmanship and variety of materials used in our tiles, there is variation in color, shade and texture across production lots or batches. as such, your sample may not be a perfect match to your actual order, and add-on orders may not be a perfect match to either. **this is the beauty of artisanal tile!**

INSPECTING YOUR SHIPMENT

- **WHAT TO EXPECT** – encaustic cement tiles feature variation in color and shade. Irregular or chipped edges and cracked surfaces are to be expected as well. ALSO - dust and shipping residue should be expected and cleaned prior to installing.
- **BLEND BLEND BLEND** - due to the natural pigments used in production of cement tiles, your order will contain degrees of variation in color and shade in. as such, it is crucial to blend the tiles from all boxes and place them in their installation area to ensure you have the layout you want before installing.
- **ORDER EXTRA!** - industry standard suggests adding at least 15% overage due to tile cuts, potential shipping breakage, or future repairs. however, if the natural variation in shade and color of our encaustic cement tiles does not fit your project's needs, we recommend ordering 20-30% overage. this will allow your contractor to cherry-pick the tiles most desirable for your project.
- **SHIPMENTS ARE SUBJECT TO WEATHER** – tiles may be exposed to moisture and/or condensation during production or shipping which may affect the color of the tiles once received. setting the tiles out to dry prior to installation will return the color to normal. do not install tiles until fully dried.
- * **NOTE:** smudging caused by friction during shipping, and clouding of the tile surface due to humidity are uncommon, but these issues can sometimes occur.
 - smudging tends to be more common/ noticeable on contrasting black and white patterned tiles.
 - generally, our recommended 15% overage covers any smudging or clouding that may occur. generally they come off by themselves during installation. but, if needed, tiles can be sanded down by hand with 400 grit sandpaper to fully remove these marks prior to grouting/sealing.
 - our cement tiles have a pigment layer roughly $\frac{1}{8}$ " (+/- $\frac{1}{16}$ ") thick. sanding will ONLY effectively remove the top-most micro-layer of the tile surface to reveal fresh pigment underneath.

INSTALLATION FYIs

- **GENERAL GUIDELINES, NOT INSTRUCTIONS** - 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. an installer without artisan tile experience will not know how to install clé tiles and will likely result in failed installations.
- **INSTALLATION DEEMS ACCEPTANCE OF YOUR ORDER** - if not 100% sure of your tiles- DO NOT INSTALL THEM. as is standard in the tile industry, installation deems acceptance of materials. do not install if there are visible issues. if you are unsure of what qualifies as one, reach out to us BEFORE installation. our tiles are subject to variation in color, texture, size, and finish. misuse by contractor or end-user including, but not limited to, negligence, physical and/or chemical abuse, as well as order shortages ARE NOT a clé responsibility and therefore, not covered by clé's warranty.
- **TILE IS A MATERIAL. INSTALLATION ERRORS ARE NOT THE FAULT OF THE MATERIAL** – clé tile is a material. 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. 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. please visit our blog for tips on [how to choose an installer](https://www.cletile.com/blogs/cle-notes/how-to-choose-contractor-installer) (<https://www.cletile.com/blogs/cle-notes/how-to-choose-contractor-installer>).
- **REQUIRE YOUR INSTALLER PERFORM A “DRY RUN” BEFORE BEGINNING YOUR INSTALLATION** – before installing, lay out and blend tiles from ALL BOXES so that variations in color, and tiles that bear chips and pits are placed as you would like. clé selects our tiles for their hand-hewn qualities and inherent surface and color variations, including pits, cracks, and chips. placement of these nuances within your installation must be guided by you and/or your design professional to realize the best blend of your shipment of our limited-availability tiles. your installation is only as good as your DRY RUN.
- **DO NOT USE TAPE, BLUE TAPE, OR OTHER TAPE** - do not use blue tape or other construction tape during product installation. tape may erode or damage our products.
- **WAIT UNTIL YOUR PROJECT IS COMPLETE BEFORE INSTALLING YOUR TILES** - install the tiles as late as possible in the project to minimize the risk of damaging the tile.
- **REQUIRE MOCK-UP BOARDS** – to ensure proper layout, grout color, joint size, and sealant selection, we strongly recommend that your installer create mock-up boards before installation. A standard practice among experienced installers, mock-ups let the end user and design professional evaluate layouts, blending, and overall appearance in the space and lighting in which the tiles will actually be installed. Before making mock-ups, complete the DRY RUN and blend tiles as outlined in that section.
- **“FINAL FINISH” – WHAT IT IS AND WHY MAY YOUR PROJECT REQUIRES THIS?** - if you plan to install your tile prior to installing cabinets, fixtures, etc., the tile will need refinishing after the other features are installed. we call this the “final finish.” here, your contractor should replace any broken or chipped tiles caused by construction damage, scuffing, or any deterioration of the tile surface. a professional refinisher should be hired for the final refinishing of your tile installation. (another benefit is that shipping refinishing can lessen common shipping imperfections). be sure to account for this final step in your timeline and budget.

- to accommodate variations in tile sizes, wedge spacers should be used when needed to keep tile lines straight.
- cement tiles are not UV resistant and will fade over time from sun exposure. dark colors such as black, dark blue, purple, and green colors will fade faster than others.

TCNA and ANSI - for more information 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.

INSTALLATION AREAS

- **walls**
 - suitable for interior and exterior wall installations
 - for exterior installations in cold-weather areas, there must be a flashing or roofing overhead and the tiles must be sealed with a water-repellent sealer.
- **floors**
 - can be installed on interior and exterior floors, including areas of heavy commercial traffic.
 - for exterior installations in cold-weather areas, must be installed above-grade on covered decks or verandas and sealed with a water-repellent sealer.
 - radiant heating compatible
- **showers**
 - can be installed in showers with the application of a penetrating, water-repellent sealer.
 - not suitable for steam showers or saunas (wet or dry)
- **pools, fountains & waterlines**
 - not suitable for installations in pools, fountains or waterlines
- **freeze/thaw rating**
 - not freeze/thaw rated
- **fireplace surround and hearth**
 - can be used on fireplace surrounds and hearths
 - not heat resistant, should be kept out of direct heat
- **uv resistance**
 - not uv resistant and will fade over time from sun exposure
 - dark colors such as black, dark blue, purple, and green colors will fade faster than others.
- **backsplashes**
 - suitable for stove backsplashes. consult with your installer to see if a range splash is required for your installation.
 - suitable for sink backsplashes with the application of a penetrating, water-repellent sealer.

GROUT

- clé recommends a 1/16" grout joint with this collection.
- cement tiles are porous and prone to stain during grouting. to lessen this risk, we suggest sealing your tiles before grouting. refer to our [sealing, maintenance, & care guide](#) for more information.
- clé suggests using mortar and a quartz-based grout compliant with ansi a118 or iso 13007 classifications suitable for your project. Please consult with your installation professional to make these determinations.
- grout color choice is always up to our client and/or their design professional. however, clé is often asked for our opinion on best selections for our tiles. due to the wide array of grout colors available, clé would like to offer this general guideline on grout color selection for any of your clé tiles.
 - first, have your contractor complete your tile installation, except for the grout portion.
 - next, ask your contractor to bring all grout color charts from his preferred grout manufacturer 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 you are working with patterned cement tiles, 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 pattern that you would like to accentuate.
- we do not generally recommend using contrasting grout with cement tiles, as it highlights the thin hairline cracks/crazing found on the tiles, and fills in any pits/chips. if you choose a contrasting grout (i.e. white grout with black tile) please order 20-30% overage to cherry-pick the tile with imperfections that are standard to cement tile. also, you must apply a proper grout release or sealer as a pre-grout treatment and use a quartz-based (non-pigmented) grout to reduce the chance of the contrasting grout curing in the inherent hairline cracks, pits, and/or chips.
- if your contractor is having any issues or questions regarding the grout chosen, please reach out to the grout manufacturer directly as they are the best and fastest line of contact.

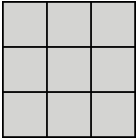
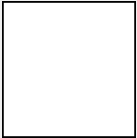
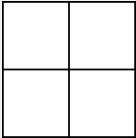
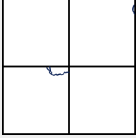
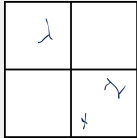
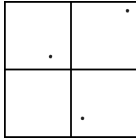
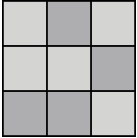
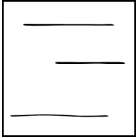
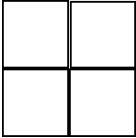
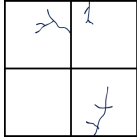
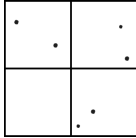
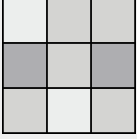
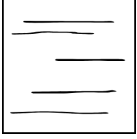
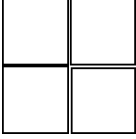
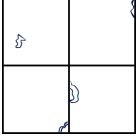
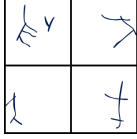
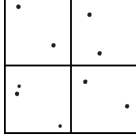
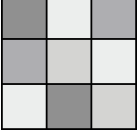
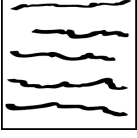
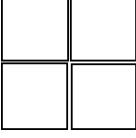
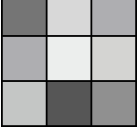
SEALING, MAINTENANCE, AND CARE

- cement tiles are **very** sensitive to acids. please do not attempt to clean them with vinegar, lemon juice or any common household cleaners other than a gentle pH neutral cleaner.
- please follow laticrete's [sealing, maintenance, and care guide](#) for more guidance on cleaning, maintaining, and caring for your tile installation.
- **if you have any questions regarding laticrete products or how to use them, please contact laticrete directly by phone: 1-800-243-4788 x 1235.**

additional specifications

VARIATION & IMPERFECTIONS

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

COLOR VARIATION	TEXTURE VARIATION	SIZE VARIATION	PITS / CHIPS	CRACKS / CRAZING	IRON SPOTS
MEDIUM	SMOOTH	SLIGHT	WILL OCCUR	WILL OCCUR	N/A
 <p>low</p>	 <p>smooth</p>	 <p>slight</p>	 <p>will occur</p>	 <p>will occur</p>	 <p>will occur</p>
 <p>slight</p>	 <p>slight</p>	 <p>medium</p>	 <p>prevalent</p>	 <p>prevalent</p>	 <p>prevalent</p>
 <p>medium</p>	 <p>medium</p>	 <p>heavy</p>	 <p>heavy</p>	 <p>heavy</p>	 <p>heavy</p>
 <p>heavy</p>	 <p>heavy</p>	 <p>extreme</p>	n/a	n/a	n/a
 <p>extreme</p>	n/a	n/a	n/a	n/a	n/a

FLOOR RATING

cement tiles are rated iv (can be used for light residential to heavy commercial foot traffic). to help maximize your floor's beauty and longevity, aside from not exposing tiles to traffic beyond its capacity, floors should be kept clean of abrasive debris and stains should be cleaned as quickly as possible.

I light residential

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

not suitable for shoes with hard sole profiles (cleats, stilettos, etc.)

II heavy residential

for residential areas with continuous foot traffic. for example: entry, hallway, kitchen, foyer, laundry, and mud rooms.

III light commercial

for commercial areas with light foot traffic. for example: commercial offices, doctor's offices, and boutiques

IV heavy commercial

for commercial areas with continuous foot traffic. for example: hotel lobby, retail, corridors in an office building, shopping malls and restaurants.

V industrial

standard industrial floor use with no extreme, heavy breakage or spillage. for example: restaurant kitchens, bar work areas, winery production, exterior hotel entry, airport, car showroom, driveway.

PRODUCT DESCRIPTION

hydraulic pressed handmade cement tiles.

PRODUCT COMPONENTS

wear colored layer: 3 to 4 mm +/- thickness affixed to the tile body by 1,700 psi mechanical pressure, composed of: white portland cement, marble dust and mineral pigments for color (oxides and organic).

tile body: 12 mm +/- in thickness, composed of gray portland cement & sand.

our cement tiles are made up of three different layers:

top layer = known as the 'color' and design layer made of natural pigments mixed with ground marble dust and the finest white portland cement.

middle layer = a mortar made of fine sand and portland cement that provides for compression reinforcement for heavy traffic and furniture.

bottom layer = solid concrete made to be strong and porous for impact strength before and after installation.

DIMENSIONS

SHAPE	PIECE DIMENSIONS	WEIGHT
BLADE	7.6 cm x 30.5 cm x 1.6 cm (3" x 12" x 5/8")	0.77 kg per tile (1.7 lbs)
BOUCHON	5 cm x 5 cm x 1.6 cm (2" x 2" x 5/8")	0.08 kg per tile (0.18 lb)
CIGAR	5 cm x 20 cm x 1.6 cm (2" x 8" x 5/8")	0.34 kg per tile (0.75 lb)
CIRCLE	20 cm x 20 cm x 1.6 cm (8" x 8" x 5/8")	0.68 kg per tile (1.5 lbs)
CROSS	15 cm x 20 cm x 1.6 cm (6" x 8" x 5/8")	0.69 kg per tile (1.54 lbs)
DIAMOND	11 cm x 20 cm x 1.6 cm (4.5" x 8" x 5/8")	1.36 kg per tile (3 lbs)
GRANDE	20 cm x 20 cm x 1.6 cm (8" x 8" x 5/8")	1.36 kg per tile (3 lbs)
HEXAGON	20 cm x 23 cm x 1.6 cm (8" x 9" x 5/8")	1.09 kg per tile (2.4 lbs)
LOSANGE	15 cm x 9 cm x 1.6 cm (6" x 3 1/2" x 5/8")	0.29 kg per tile (0.66 lbs)
MAGIC LANTERN MEDIUM	15 cm x 25 cm x 1.6 cm (6" x 10" x 5/8")	1 kg per tile (2.2 lbs)

SHAPE	PIECE DIMENSIONS	WEIGHT
MAGIC LANTERN LARGE	17.8 cm x 30 cm x 1.6 cm (7" x 12" x 5/8")	1.27 kg per tile (2.8 lbs)
MASON	10 cm x 20 cm x 1.6 cm (4" x 8" x 5/8")	0.68 kg per tile (1.5 lbs)
OCTAGON	25 cm x 25 cm x 1.6 cm (10" x 10" x 5/8")	2 kg per tile (4.5 lbs)
PETITE	10 cm x 10 cm x 1.6 cm (4" x 4" x 5/8")	0.34 kg per tile (0.75 lb)
PIXIE	5 cm x 5 cm x 1.6 cm (2" x 2" x 5/8")	0.08 kg per tile (0.18 lb)
SCALLOP	20 cm x 20 cm x 1.6 cm (8" x 8" x 5/8")	0.68 kg per tile (1.5 lbs)
STAR	15 cm x 20 cm x 1.6 cm (6" x 8" x 5/8")	0.89 kg per tile (1.98 lbs)
STOUT	15 cm x 15 cm x 1.6 cm (6" x 6" x 5/8")	0.71 kg per tile (1.5 lbs)
TRIANGLE	30 cm x 33 cm x 1.9 cm (12" x 13" x 3/4")	1.59 kg per tile (3.5 lbs)

* please note all dimensions are nominal and may vary +/- 1/8".

AVERAGE COEFFICIENT OF FRICTION (DCOF ACUTEST)

Wet DCOF
0.74 (wet, exterior floors)

*application of an anti-slip sealer or treatment can help increase slip resistance.

*DCOF is only one factor and should be considered together with levelness of surface to be tiled, type of use, expected traffic, contaminants, maintenance, and wear when choosing a tile for your project

per ANSI A326.3 standards:

- interior floors meant to be walked on *when dry* should have a dry DCOF of at least 0.42,
- interior floors intended to be walked on *when wet* should have a wet DCOF of at least 0.42,
- exterior floors intended to be walked on *when wet* should have a wet DCOF of at least 0.55

FREEZE/THAW RESISTANCE (ASTM C1026)

cement tiles are not freeze/thaw resistant.

WATER ABSORPTION (ASTM C373)

avg. 10.9%; non-vitreous.

ACID RESISTANCE

cement tiles are not resistant to acids and should be cleaned with pH neutral cleaner.

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.

our cement tiles are considered 'inherently non-emitting sources' under the low-emitting materials credit of LEEDv4/v4.1, but our current pre-seal offering is not compliant with LEED. because we offer them finished in a pre-polish & pre-seal format to support stain resistance, we would recommend ordering them without the sealant, in the pre-polish format only, in order to qualify for the low-emitting materials credit.

'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 I).

disclosures for mr credit material ingredient disclosures under LEEDv4/v4.1, are not available at this time. we are exploring our disclosure options.

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 cement tiles can withstand the tests of time while remaining timeless.*

RECYCLED CONTENT

there is no recycled content in our cement 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 tiles at this time. see material sourcing disclosure above.

FIRE RATING

we currently do not have fire testing results for our cement tiles and are exploring our testing options.