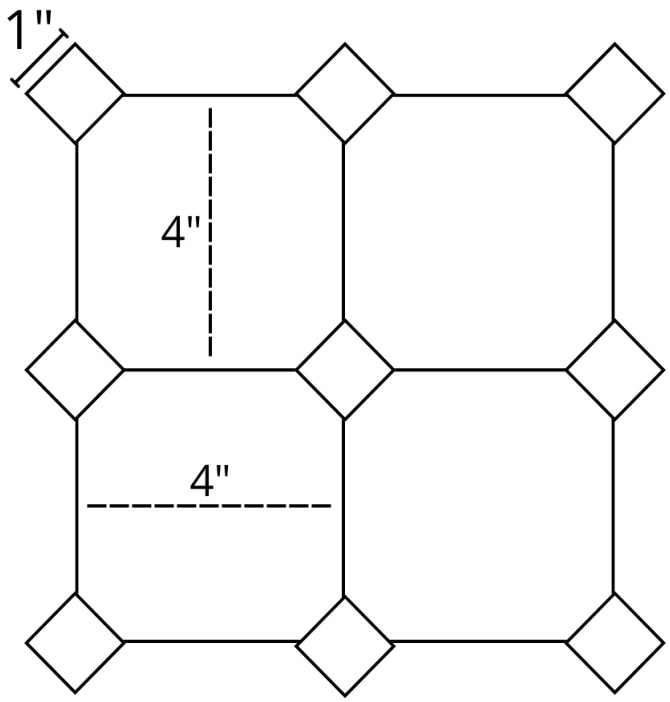
clé lapidary: zio and sons



standard thickness for clé lapidary: zio and sons is ⅜".
please note all dimensions are nominal and can vary +/- ⅛". 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.
	⅛"	Y	Y*	Y	Y*	Y	Y*	Y*	Y*	Y	Y	Y	N

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

* there are specific installation requirements for this usage.
review the "installation areas", "sealing, maintenance & care", "average coefficient of friction" and "freeze/thaw" sections below and discuss with your installer.

clé lapidary: zio and sons

you've got something special. glamorous and sophisticated, clé's lapidary collection features classic stones – including carrara, limestone, and travertine – in multiple sizes, colors and shapes, like these mosaics. the classic octagon + bouchon design has been translated in a combination of stones, adding a note of opulence to a familiar pattern. use these to create a classic mood or a more modern, sophisticated one, inspired by 1970s milan and the clé + zio collection.

expect variation. clé lapidary features a variety of natural stones, all of which exhibit degrees of variation. our tiles are cut from large blocks of stone; therefore, there will be variation in both color and shade across production lots or batches, depending on the area of the quarry from which a particular lot was sourced. 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. note: these bundles contain two different stones, which could amplify the degree of variation. **that's the beauty of nature.**

INSPECTING YOUR SHIPMENT

- **WHAT TO EXPECT** - clé lapidary tiles are composed of natural stone and will exhibit a smooth honed surface. also, dust and shipping residue should be expected and cleaned prior to installing.
- **BLEND BLEND BLEND -** due to the natural materials and production process of clé lapidary tiles, your order will contain degrees of variation in color, shade, and size. it is crucial that tiles from all boxes are blended and placed in their installation area to ensure you have your desired layout 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 variation in color, shade, and veining inherent to natural stone does not fit your project's needs we recommend ordering 25-35% overage. sufficient overage allows 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.

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, which will likely result in failed installations.
- **INSTALLATION DEEMS ACCEPTANCE OF YOUR ORDER** - if you are not 100% sure of your tiles - DO NOT INSTALL THEM. as is standard in the tile industry and with all construction materials, installation deems acceptance of materials. do not install if there are visible issues. if you 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, 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. please refer to your project architect, structural engineer and/or installer for best results.

- **IT'S NATURAL** - please note that the stones in our lapidary collection contain naturally occurring iron deposits that can cause rust spots if exposed to excessive moisture.

- **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).

- **REQUIRE YOUR INSTALLER PERFORM A "DRY RUN" BEFORE BEGINNING YOUR INSTALLATION** – before installing, make sure to lay out and blend ALL BOXES of your tiles so that color variations and tiles that bear chips and pits are artfully placed as you would like. clé selects our tiles for their inherent surface and color variations, which include pits, cracks, and chipping. the best placement of these nuances throughout your installation must be guided by you and/or your design professional to realize the best possible 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. the 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 your tiles are organized properly and your grout joint size and color, as well as sealant, are done to your design professional's specifications, we urge you to require your installer create mock-up boards prior to installation. a STANDARD PRACTICE for seasoned installers, it enables the end-user and their design professional to test tile layouts in mock-up form and allows the mock-up boards to be examined in the space and lighting in which the tiles will be used. before beginning the mock-up boards, make sure to FIRST do your above-recommended DRY RUN and lay out and blend your tiles as described in that section.

- **"FINAL FINISH" – WHAT IT IS AND WHY MIGHT YOUR PROJECT REQUIRE IT?** - if you plan to install your tile prior to installing cabinets, fixtures, etc., you'll need to refinish the tile after those other features are installed in a step we call the "final finish." in this step, your contractor should replace any broken or chipped tiles caused by construction damage, scuffing, or any deterioration of the tile surface. they should also hire a professional refinisher for the final refinishing of your tile installation. (*NOTE – another benefit is that refinishing can lessen common shipping imperfections.) make sure to account for this step in your project timeline and budget.

TCNA, ANSI, AND ASTM - refer to the TCNA Handbook's latest edition for best installation results, and to the natural stone institute's dimension stone design manual for stone-specific guidance. for specifications, reference the ASTM standard that applies to your stone type (e.g., ASTM C503 for marble, ASTM C1527 for travertine, ASTM C568 for limestone).

INSTALLATION AREAS

- **walls**
  - suitable for interior and exterior walls
  - 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 used on interior floors, including light commercial traffic areas.
  - for exterior floor installations, clé recommends applying an anti-slip sealer or treatment.
  - in cold-weather areas there must be a flashing or roofing overhead and the tiles must be sealed with a water-repellent sealer.
  - radiant heating compatible

- **showers**
  - can be used on shower walls and floors with the application of a penetrating sealer.
  - verde marble, jade green, rojo alicante, cashmere grey and alpaca grey stones can be a suitable option for steam showers, provided the right setting materials, grout, and sealers are used, along with regular maintenance and care. other stones in our lapidary collection are not suitable for steam room installations.

- **pools, fountains & waterlines**
  - not suitable for installations in pools, fountains or waterlines

- **freeze/thaw rating**
  - only our alpaca grey, beige travertine, calacatta gold, carrara, iberian chocolate, jade green, noir fumé, rojo alicante, rosina veneto, and rosso italiano stones are freeze/thaw rated.

- **UV resistance**
  - lapidary tiles are UV resistant.

- **fireplace surround and hearth**
  - lapidary tiles are heat resistant and can be used on fireplace surrounds and hearths.
- **backsplashes**
  - suitable for stove backsplashes. we recommend using a range splash to help protect your tile installation from heat, moisture, and grease exposure.
  - suitable for sink backsplashes with the application of a penetrating, water-repellent sealer.

GROUT

- clé recommends a ⅛” grout joint for this collection.
- it is recommended to apply grout release or sealant prior to grouting to minimize risk of grout haze, reduce the chance of grout filling the natural pits and chips found in some stones, and allow for easy clean up.
- clé recommends using mortar and cementitious grout that meet ANSI A118 or ISO 13007 standards for your project. consult with your installation professional to make these determinations.
- grout color selection is always up to our client and/or their design professional. however, clé is often asked for our opinion on grout selections for our tiles. due to the array of grout colors that are now 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.
    - then, ask your contractor to bring grout color charts from their preferred grout manufacturer for your review.
    - lastly, choose a time of day when you are most pleased with the lighting in your space. in that lighting and at that time of day, choose the grout color that best matches your tile selection.
- if you are working with patterned 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.
- clé recommends a white grout on all white marble installations. however, if you are working with highly color-variegated tiles or a combination of tiles, we recommend that you follow the above recommendations - apply an appropriate grout release or sealer before grouting, and match your grout to the color in your installation that you would like to accentuate.
- we do not generally recommend using grout of a contrasting color, as it will highlight the cracks/crazing found on the tiles, and fill in any pits, and/or chips. if you choose to use a contrasting grout (i.e. white grout with black tile) please order 20-30% overage in order to cherry-pick the tiles with the imperfections that are standard to natural stone tiles. additionally, you must make sure to apply a grout release or appropriate sealer as a pre-grout treatment to minimize the possibility of the contrasting grout curing in the cracks, pits, and/or chips.
- if your contractor is having any issues or questions regarding grout, please reach out to the grout manufacturer directly. they are the best and fastest line of contact.

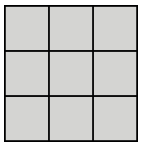
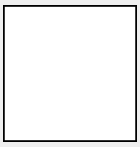
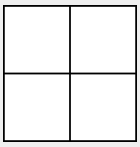
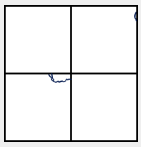
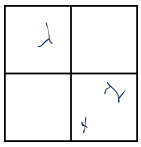
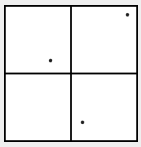
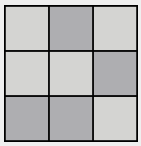
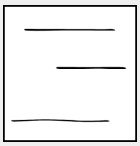
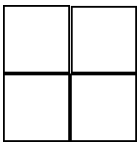
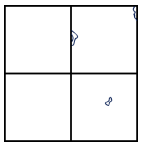
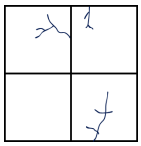
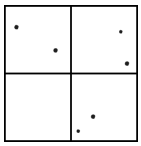
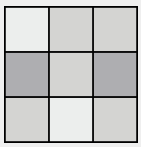
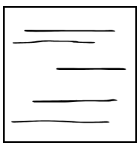
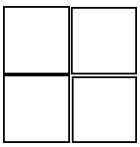
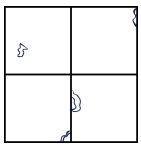
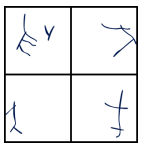
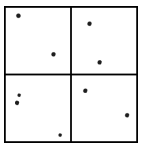
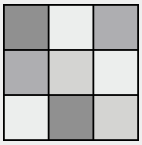
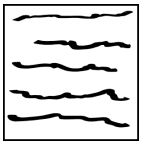
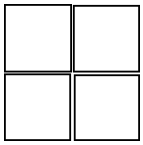
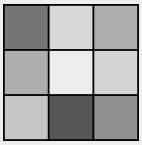
SEALING, MAINTENANCE & CARE

- lapidary 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.
- all lapidary tiles are subject to rust spots and water stains if exposed to excessive moisture.
- shower installations
    - to reduce the occurrence of rust spots and other water-related stains, we suggest the following maintenance plan:
        - dry off the surface after each use. we suggest using a squeegee.
        - clean frequently with laticrete revitalizer cleaner & protector. this product is mild enough for daily use.
        - spot clean any stains with laticrete soap scum remover or laticrete mold & mildew stain remover.
- 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
SLIGHT - EXTREME	**SMOOTH - SLIGHT**	**SLIGHT**	**WILL OCCUR**	**N/A**	**WILL OCCUR**
 low	 smooth (all other stones)	 slight	 will occur	 will occur	 will occur
 slight (noir fumé, thassos)	 slight (beige travertine, red travertine)	 medium	 prevalent	 prevalent	 prevalent
 medium (all other stones)	 medium	 heavy	 heavy	 heavy	 heavy
 heavy (jade green)	 heavy	 extreme	n/a	n/a	n/a
 extreme (calacatta viola, iberian chocolate)	n/a	n/a	n/a	n/a	n/a

FLOOR RATING

clé lapidary: zio and sons tiles are rated III (can be used for light residential to light commercial foot traffic). to help maximize your floor's beauty and longevity, aside from not exposing tiles to traffic beyond their 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

honed stones.

PRODUCT COMPONENTS

natural stone.

DIMENSIONS

SHAPE	PIECE DIMENSIONS	WEIGHT
BOUCHON	3.18 cm x 3.18 cm x 0.95 cm (1 ¼" x 1 ¼" x ⅜")	0.03 kg per tile (0.06 lb)
OCTAGON	10.16 cm x 10.16 cm x 0.95 cm (4" x 4" x ⅜")	0.25 kg per tile (0.56 lb)

* please note all dimensions are nominal and can vary +/- ⅛".

AVERAGE COEFFICIENT OF FRICTION (DCOF ACUTEST)

WET EXTERIOR (wet DCOF >0.55)	WET INTERIOR (wet DCOF >0.42)	DRY INTERIOR (dry DCOF >0.42)
alpaca grey, beige travertine, calacatta gold, calacatta viola, iberian chocolate, noir fumé, red travertine, rojo alicante, rosina veneto, white limestone	carrara, cashmere grey, galician green, jade green, rosso italiano, thassos, verde marble	all stones

*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 intended 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)

FREEZE/THAW RESISTANT	NOT FREEZE/THAW RESISTANT
alpaca grey, beige travertine, calacatta gold, carrara, iberian chocolate, jade green, noir fumé, rojo alicante, rosina veneto, rosso italiano	calacatta viola, cashmere grey, galician green, red travertine, thassos, verde marble, white limestone

WATER ABSORPTION (ASTM C97)

IMPERVIOUS ≤ 0.50%	VITREOUS 0.50% < 3.0%	SEMI-VITREOUS 3.0% < 7.0%
alpaca grey, calacatta gold, calacatta viola, carrara, cashmere grey, jade green, galician green, rojo alicante, rosina veneto, rosso italiano, verde marble	beige travertine, iberian chocolate, red travertine, noir fumé	thassos, white limestone

ACID RESISTANCE

clé lapidary: zio and sons tiles are **very** sensitive 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.

natural stone tiles are considered 'inherently non-emitting sources' under the low-emitting materials credit of LEED v4/v4.1. **this is the only credit for our lapidary tiles 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 LEED v4/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 LEED v4/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 LEED v4/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 stone tiles can withstand the test of time while remaining timeless.*

RECYCLED CONTENT

there is no recycled content in our lapidary tiles at this time.

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.

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.”