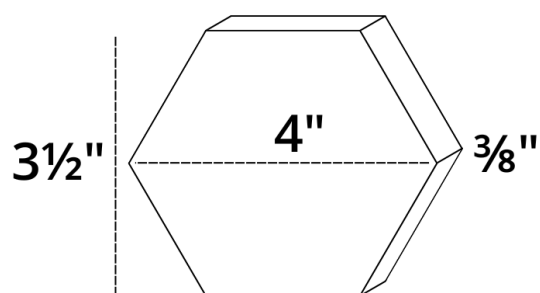
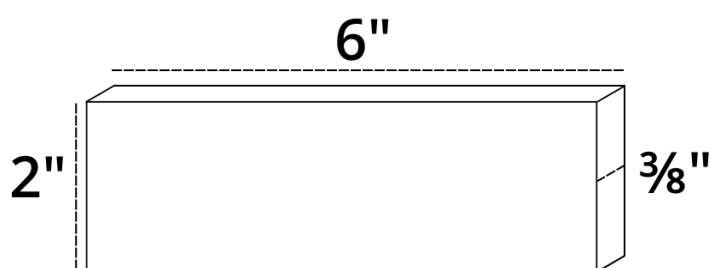
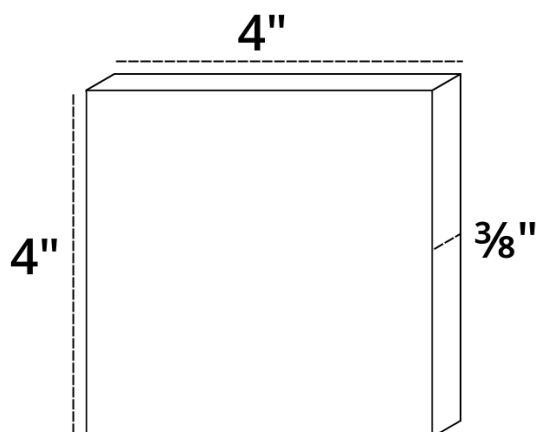
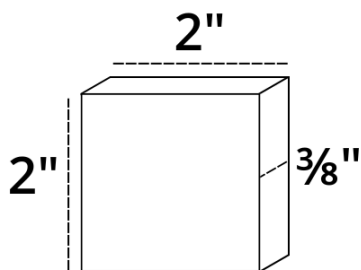


# ZELLIGE



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

**standard thickness for bejmat tiles is 3/4", and 3/8" for all other zellige.**

please note all dimensions are nominal. please note that dimensions can vary +/- 1/4".

measurements for 2" x 6" bejmat tiles are closer to 1 3/4" x 5 1/2".

\* there are specific installation requirements for this usage.

please review the [glazed](#) and [natural \(unglazed\)](#) "installation areas" sections below, and discuss with your installer.

# ZELLIGE

---

**you've got something special.** zellige is a tile that has retained its ancient tile making process and, therefore, has all the hand-hewn qualities that have become synonymous with it. essentially, a glazed terracotta tile, hand-crafted, olive-pit fired and hand chiseled to size, if your order doesn't contain tiles with pits, cracks, iron spots, shade/size variations and chipped edges—it's not zellige.

**expect variation.** due to the handmade craftsmanship of our tiles and the variety of materials used, there will be variation in color, shade, size and texture across production lots or batches. 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. **this is the beauty of artisanal tile!**

---

## INSPECTING YOUR SHIPMENT

- **WHAT TO EXPECT** – zellige tiles are handcrafted, wood-fired terracotta with inherent variations in color, surface marks and texture as well as occasional crazing, pitting, and iron spots. ALSO - dust and shipping residue are to be expected and should be cleaned prior to installing.
- **BLEND BLEND BLEND** - due to the natural materials and production process of zellige tiles, there will be variation in color, shade, and size in your order. it is important to blend tiles from all boxes and place them in their installation area to ensure you have the layout you want before installing.
- please note that it is impossible to guarantee a perfect color match across different size tiles in the same zellige glaze, which may affect your layout. due to the handcrafted nature of the tiles, variation across the different sizes is to be expected. if you wish to have your tiles made-to-order for optimal color continuity, please email [contact@cletile.com](mailto:contact@cletile.com) to inquire.
- **ORDER EXTRA!** - industry standard suggests adding at least 15% overage due to tile cuts, potential shipping breakage, or future repairs. due to the production process, firing methods and raw materials used to create glazed clay tiles, more than 15% of your order of zellige tiles will have cracks, iron spots, crazing, chipped edges, and pitting. pits and chips may be more prevalent on 2" x 6" bejmat tiles compared to other sizes, especially in darker glaze colors, with the corners and edges being the areas most affected. if these features do 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

---

## 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. any 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 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.
- **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>).
- since each zellige tile is hand chiseled, there may be sharp edges. your installer can minimize the sharp edges during the installation process or after installation with a light sanding on high points.
- **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 your variations in color, and tiles that bear chips and pits are artfully placed as you would like. clé selects our tiles for their hand-hewn variations and their inherent surface and color variations, which include pits, cracks, and chipping. best placement of these nuances within 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.
- **REQUIRE MOCK-UP BOARDS** – to ensure your tiles will be organized properly and your grout joint size and color, as well as your sealant, are done to your design professional's specifications- we urge you to require your installer create mock-up boards prior to your installation. a STANDARD PRACTICE for seasoned installers, it enables the end-user and their design professional 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 may your project requires this?** - if you plan 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 shipping refinishing can alleviate common shipping imperfections.). make sure to account for this final step in your project timeline and budget.

**TCNA and ANSI** - 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 specifications.

---

## INSTALLATION AREAS - GLAZED ZELLIGE

### ■ walls

- glazed zellige is 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

- glazed zellige is suitable for dry interior floors in areas of light commercial traffic
- not suitable for exterior floors
- radiant heating compatible.

### ■ showers

- glazed zellige can be installed in showers and steam showers with the application of a waterproofing penetrating sealer.
- glazed zellige can be used on shower and steam shower floors, where the natural variation on the surface of the tile and the application of a slip-resistant sealer or treatment can provide protection against slipping. additionally, using a thicker grout line, an off-center placement and/or using smaller 2" x 2" tiles, can also provide protection as more grout lines may provide better drainage.

### ■ pools, fountains & waterlines

- glazed zellige tiles can be installed on pool and fountain water lines with application of a penetrating sealer. they, however, are not suitable for fully submerged installs.

### ■ freeze/thaw rating

- glazed zellige is not freeze/thaw rated

### ■ uv resistance

- glazed zellige tiles are uv resistant.

### ■ fireplace surround and hearth

- glazed zellige is suitable for installation in fireplace surrounds and hearths
- glazed zellige is not heat resistant and cannot be installed where they will be exposed to direct heat (inside fireplaces, pizza ovens, oven venting).

### ■ backsplashes

- glazed zellige is suitable for stove backsplashes. please consult with your installer to see if a range splash is required for your installation.
- glazed zellige tiles can be installed on sink backsplashes with the application of a penetrating sealer.

---

## INSTALLATION AREAS - NATURAL (UNGLAZED) ZELLIGE

- **walls**
  - natural (unglazed) zellige can be used on interior and exterior walls
  - for outdoor 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**
  - natural (unglazed) zellige in the bejmat size (2" x 6") can be used on interior and exterior floors in areas of light commercial traffic.
  - all other sizes of can be used on dry interior floors with light commercial traffic.
  - for exterior floor installations in cold-weather areas, it must be installed above-grade on covered decks or verandas and sealed with a water-repellent sealer.
  - natural (unglazed) zellige is radiant heating compatible.
- **showers**
  - natural (unglazed) zellige is not suitable for use in showers, steam showers or saunas (wet or dry)
- **pools, fountains & waterlines**
  - natural (unglazed) zellige tiles are not intended for use in any kind of wet, submerged, or partially submerged installations.
- **freeze/thaw rating**
  - natural (unglazed) zellige is not freeze/thaw resistant
- **uv resistance**
  - natural (unglazed) zellige is uv resistant.
- **fireplace surround and hearth**
  - natural (unglazed) zellige can be used on fireplace surrounds and hearths
  - natural (unglazed) zellige is not heat resistant and cannot be installed where they will be exposed to direct heat (inside fireplaces, pizza ovens, oven venting).
- **backsplashes**
  - natural (unglazed) zellige can be used as a stove backsplash. please consult with your installer to see if a range splash is required for your installation.
  - natural (unglazed) zellige can be installed on sink backsplashes with the application of a penetrating sealer.

---

## MADE-TO-ORDER MOUNTED 2" x 2" SHEET TILES

- we offer unmounted loose 2" x 2" tiles in all colors on our website. however, we are able to offer sheets of mounted 2" x 2" tiles as a special made-to-order option directly from our sales team.
- if you ordered, a mounted sheet has 16 pieces of 2" x 2" tile, measuring 8" x 8" overall.
- with this option, unglazed natural zellige 2"x2" tiles come back, mesh mounted, while glazed zellige tiles have a plastic sheet on top of the tiles to hold the tiles in place.
- if the sheet leaves glue residue on the glaze it can be removed with warm water and a soft cloth.
- individual pieces can be taken off the sheet and moved around in order to blend them.
- please contact a sales representative to order.

---

## GROUT

- clé recommends a  $\frac{1}{16}$ " grout joint with this collection.
- clé recommends using mortar and unsanded cementitious grout that comply with the ANSI A118 or ISO 13007 classifications suitable for your project. please 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 best grout selections for our tiles. due to the large array of colors now available, clé would like to offer this general guideline on grout color selection for 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.
- when working with highly color-variegated tiles or a combination of tiles, we recommend following the above recommendations—but match your grout to the color in your installation that you would like to accentuate.
- we do not recommend using a contrasting grout color with zellige, as it will highlight the hairline 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 tile with imperfections that are standard to zellige. also, be sure to apply a grout release or sealer as a pre-grout treatment to lessen the chances of grout curing in the inherent hairline cracks, pits, and/or chips.
- if your contractor has 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, and care**

- please follow laticrete’s [sealing, maintenance, and care guide](#) for more guidance on sealing, 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.

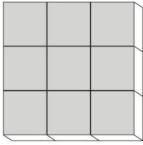
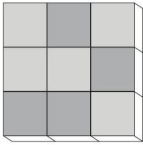
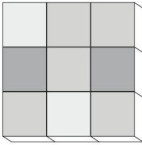
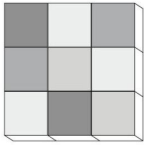
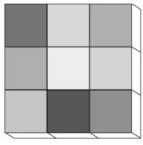
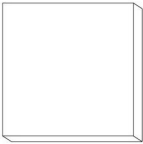
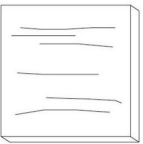
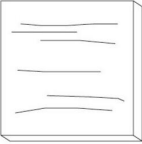
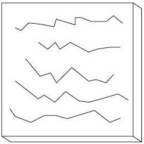
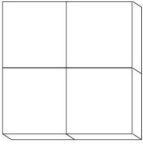
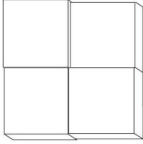
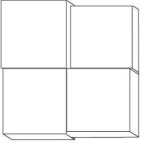
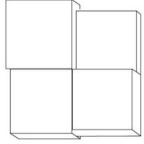
**ADDITIONAL SPECIFICATIONS**

**COLOR, TEXTURE AND SIZE VARIATION**

zellige, created from natural glazes, pigments and clay, is fired in handmade kilns using olive pits, and hand-chiseled into desired shapes and sizes. the production methods and natural materials can cause noticeable variation in thickness, size, shade and color. differences in the same color across different sizes of zellige are possible. if your project calls for a uniform-looking glazed tile, zellige may not be the best fit.

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

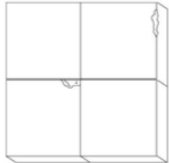
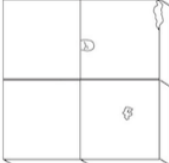

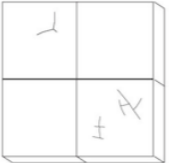
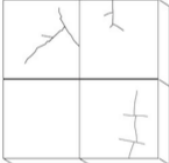
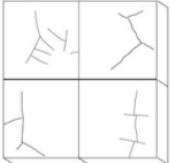

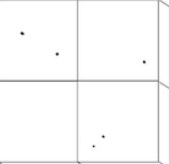
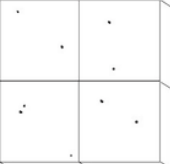
our zellige tiles, with a few exceptions, are rated 'level 3 medium' for color variation, 'level 3 medium' for texture variation, and 'level 3 heavy' for size variation. the exceptions are: natural (unglazed), rated 'level 2 slight' for color variation, and shattered pearl and tea ceremony, rated 'level 4 heavy' for color variation.

CATEGORY	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5
COLOR VARIATION	 low	 slight (natural)	 medium	 heavy (shattered pearl, tea ceremony)	 extreme
TEXTURE VARIATION	 smooth	 slight	 medium	 heavy	n/a
SIZE VARIATION	 slight	 medium	 heavy	 extreme	n/a

## IMPERFECTIONS

**Glazed tiles:** Our glazed Zellige tiles are rated 'level 2 prevalent' for both pits/chips and cracks/crazing, with the exception of Argan Brown, Battled Armor, Charred Cedar, Midnight Port and Scribes' Ink which are rated 'level 3 heavy'. For iron spots all glazed tiles are rated 'level 1 will occur'.

**Natural (unglazed) tiles:** Natural (unglazed) zellige tiles are rated 'level 2 prevalent' for pits/chips, and 'level 1 will occur' for cracks.

CATEGORY	LEVEL 1	LEVEL 2	LEVEL 3
PITS / CHIPS	 <p>will occur</p>	 <p>prevalent</p>	 <p>heavy</p>
CRACKS / CRAZING	 <p>will occur</p>	 <p>prevalent</p>	 <p>heavy</p>
IRON SPOTS	 <p>will occur</p>	 <p>prevalent</p>	 <p>heavy</p>

---

## FLOOR RATING

zellige tiles are rated iii (can be used for light commercial foot traffic).

### **I light residential**

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

- not suitable for shoes with hard sole profiles (cleats, stilettos, etc.)
- the floor must be kept clean from abrasive debris (gravel, mud, salt, etc.)
- immediately clean all stains (food, personal and household care products, oils, paints, chemicals etc.)

### **II heavy residential**

for residential areas with continuous foot traffic. examples can include entry, hallway, kitchen, foyer, laundry and mud rooms. please note the following:

- the floor must be kept clean from abrasive debris (sand, gravel, mud, salt, etc.)
- immediately clean all stains (food, personal and household care products, oils, paints, chemicals etc.)

### **III light commercial**

for commercial areas with light foot traffic. examples can include commercial office, doctor's office, and boutique. please note the following:

- the floor must be kept clean from abrasive debris (sand, gravel, mud, salt, etc.)
- immediately clean all stains (food, personal and household care products, oils, paints, chemicals etc.)

### **IV heavy commercial**

for commercial areas with continuous foot traffic. examples can include hotel lobby, retail, corridors in an office building, shopping mall and restaurant. please note the following:

- the floor must be kept clean from abrasive debris (sand, gravel, mud, salt, etc.)
- immediately clean all stains (food, personal and household care products, oils, paints, chemicals etc.)

### **V industrial**

standard industrial floor use with no extreme, heavy breakage or spillage. examples can include restaurant kitchen, bar work area, winery production, exterior hotel entry, airport, car showroom, driveway. please note the following:

- the floor must be kept clean from abrasive debris (sand, gravel, mud, salt, etc.)
- immediately clean all stains (food, personal and household care products, oils, paints, chemicals etc.)

---

## PRODUCT FINISH

the finish on your glazed Zellige tiles will range from eggshell to gloss.

MATTE	EGGSHELL	SATIN	SEMI-GLOSS	GLOSS
non-reflective, subtle texture	soft sheen, subtle texture	luminous, smooth texture	moderate reflectiveness	reflective, high sheen

---

## PRODUCT DESCRIPTION

handmade, glazed terracotta tiles.

---

## PRODUCT COMPONENTS

clay, glaze, pigments.

---

## PITTING, CRACKING & CHIPPED EDGES

due to the firing methods and raw materials used to create glazed clay tiles, your order of zellige will have a percentage of tiles greater than 15% with cracks, iron spots, crazing, edge-chipping and pits through the glaze to the clay body. if these imperfections do not fit your project's needs we recommend ordering more than 15% overage. this allows your contractor to cherry-pick these imperfections from your order.

---

## DIMENSIONS

SHAPE	DIMENSIONS	WEIGHT
SQUARE	5 cm x 5 cm x 0.95 cm (2" x 2" x 3/8")	0.04 kg per tile (0.09 lbs)
	10 cm x 10 cm x 0.95 cm (4" x 4" x 3/8")	0.20 kg per tile (0.44 lbs)
BEJMAT	5 cm x 15.2 cm x 1.9 cm (2" x 6" x 3/4")	0.23 kg per tile (0.50 lbs)
HEXAGON	8.9 cm x 10 cm x 0.95 cm (3.5" x 4" x 3/8")	0.14 kg per tile (0.31 lbs)

\* please note all dimensions are nominal, and can vary +/- 1/4".  
measurements for 2" x 6" bejmat tiles are closer to 1 3/4" x 5 1/2".

---

## COEFFICIENT OF FRICTION (DCOF ACUTEST)

FINISH	WET DCOF	DRY DCOF
NATURAL (unglazed)	0.80 (wet, exterior floors)	n/a
GLAZED ZELLIGE	0.25 (no wet floors)	0.53 (dry, interior 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)

zellige tiles are not freeze/thaw resistant.

---

## WATER ABSORPTION (ASTM C373)

unglazed zellige: avg. 21.9%; non-vitreous

glazed zellige: avg. 22.9%; non-vitreous

---

## ACID RESISTANCE

zellige tiles 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, 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.

zellige 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 zellige 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 I).

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 stone tiles can withstand the test of time while remaining timeless.*

---

## **RECYCLED CONTENT**

there is no recycled content in our zellige 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**

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.

zellige is a ceramic tile and 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.”