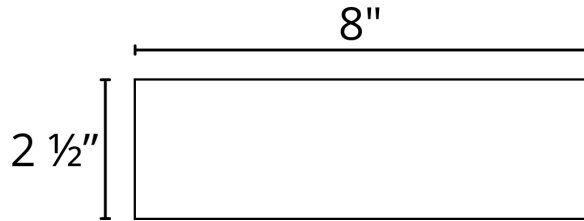
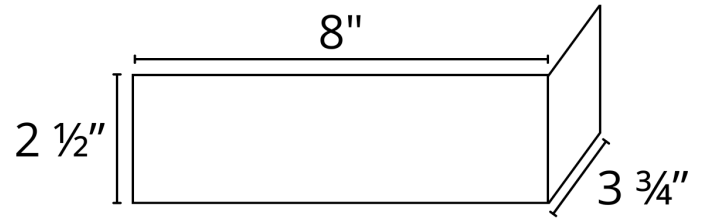


# foundry flats forge



cigar



corner

graphics are not to scale

\*\*\*standard thickness for forge bricks is 3/4" with the exception of factory which has a 1/2" thickness.

90° corner piece return is 3 3/4" on forge. please note all dimensions are nominal, and can vary +/- 1/8".

| USAGE                         | walls       |          |          | floors   |          |          |         |          |         | traffic rating |            |             |             |
|-------------------------------|-------------|----------|----------|----------|----------|----------|---------|----------|---------|----------------|------------|-------------|-------------|
|                               | grout joint | interior | exterior | interior | exterior | entryway | mudroom | bathroom | kitchen | light res.     | heavy res. | light comm. | heavy comm. |
| BRAZE, PETROL                 | 3/8"        | Y        | Y*       | Y        | Y*       | Y        | Y       | Y        | Y       | Y              | Y          | Y           | Y           |
| CAST IRON, FACTORY, VOLCANIC  | 3/8"        | Y        | Y*       | N        | N        | N        | N       | N        | N       | N              | N          | N           | N           |
| ALLOY FLUX, SAWDUST, SEDIMENT | 3/8"        | Y        | Y*       | Y        | Y*       | N        | N       | Y        | N       | Y              | N          | N           | N           |

| USAGE                         | shower |       | steam shower |       |          |      |           |             | resistant |      | fireplace         |            |                 |
|-------------------------------|--------|-------|--------------|-------|----------|------|-----------|-------------|-----------|------|-------------------|------------|-----------------|
|                               | floors | walls | floors       | walls | fountain | pool | waterline | freeze thaw | UV        | heat | surround + hearth | backsplash | radiant heating |
| BRAZE, PETROL                 | N      | Y*    | N            | N     | N        | N    | N         | Y           | Y         | Y    | Y                 | Y*         | Y               |
| CAST IRON, FACTORY, VOLCANIC  | N      | Y*    | N            | N     | N        | N    | N         | N           | Y         | N    | N                 | Y*         | Y               |
| ALLOY FLUX, SAWDUST, SEDIMENT | N      | Y*    | N            | N     | N        | N    | N         | Y           | Y         | Y    | Y                 | Y*         | Y               |

\*there are specific installation requirements for this usage. review the ["installation areas"](#) section below, and discuss with your installer.

# foundry flats forge

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**you've got something special.** we scoured the country for the right thin brick and found these foundry flats from a family-run manufacturer with a long history of working with clay. made from materials sourced within 25 miles of the factory, foundry flats are truly american, affordable, and recyclable, featuring a timeless color palette and artisan-crafted surfaces with rich character and visceral appeal.

**expect variation.** the handmade craftsmanship and variety of materials used in our tiles will yield variation in color, shade, size and texture across production lots, meaning that your sample may not perfectly match your actual order, and that add-on orders may not either. **this is the beauty of artisanal tile!**

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## INSPECTING YOUR SHIPMENT

- **WHAT TO EXPECT** – foundry flats forge are thin unglazed bricks with a distinctive patina and textured surface. variations in depth, thickness, size, color and shade are inherent to them. ALSO - dust and shipping residue should be expected and cleaned prior to installing.
  - when specifying unglazed bricks, if color consideration is paramount, always work from a sampling of three or more bricks, which represents the range of color you can expect on the job.
  - **BLEND BLEND BLEND** - colors will vary from brick to brick, some more than others. these variations are due to production methods and choice of raw materials. it is crucial to blend tiles from all boxes and place them in the installation area to ensure you have the layout you want before installing. do not install without blending bricks from all boxes.
  - **ORDER EXTRA!** - industry standard suggests adding at least 15% overage due to tile cuts, potential shipping breakage, or future repairs.
  - **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** - we offer general information about our tiles and their unique qualities and usages. proper installation will only be attained if you select an installer with years of experience with artisan tiles. choosing an inexperienced installer will likely lead to failed installations.
- **INSTALLATION DEEMS ACCEPTANCE** - if not 100% sure of your tiles DO NOT INSTALL THEM. 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 a visible issue, reach out to us BEFORE installing. 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. 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>).
- **REQUIRED YOUR INSTALLER PERFORM A “DRY RUN” BEFORE BEGINNING YOUR INSTALLATION** lay out and blend tiles from ALL BOXES so that variation 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, which include 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 order 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 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 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 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 mock-up boards- be 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 to install your tile before 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). be sure to account for this in your project timeline and budget.

**TCNA and ANSI** - please refer to the current edition of the TCNA Handbook and the Thin Brick Veneer technical notes from The Brick Industry Association (BIA) for best installation results.

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## INSTALLATION AREAS

- foundry flats forge thin bricks have color and finish-dependent installation usage. please refer to the graphic on page 1.
- **walls**
  - all foundry flats forge thin brick tiles can be installed on interior and exterior walls.
  - for outdoor wall installations of non-freeze/thaw rated tiles in cold-weather areas, there must be a flashing or roofing overhead and the tiles must be sealed with a water-repellent sealer.
- **floors**
  - foundry flats forge thin brick tiles can be used on interior and exterior floors, with the exception of factory, volcanic, and cast iron colorways.
  - note that the coating on sawdust, sediment, and alloy flux will fade over time in floor installs.
  - foundry flats forge thin brick tiles are radiant heat compatible.
  - for outdoor floor use of non-freeze/thaw rated tiles in cold-weather areas, they must be installed above-grade on covered decks or verandas and sealed with a water-repellent sealer.
- **showers**
  - suitable for use on shower walls
  - not suitable for use on shower floors
  - foundry flats forge thin bricks are not suitable for steam showers or saunas (wet or dry).
- **pools, fountains & waterlines**
  - not suitable for pool, fountain, or waterline installations.
- **freeze/thaw rating**
  - freeze/thaw resistant, except for factory, volcanic and cast iron colorways.
- **uv resistance**
  - foundry flats forge thin bricks are uv resistant.
- **fireplace surround and hearth**
  - can be used on fireplace surrounds and hearths, except factory, volcanic, and cast iron colorways.
- **backsplashes**
  - can be installed on sink backsplashes with the application of a penetrating sealer.
  - can be used as a stove backsplash, please consult with your installer to see if a range splash is required for your installation.

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## GROUT

- clé recommends a 3/8" grout joint with this collection.
- clé suggests using mortar and sanded cementitious grout compliant with ANSI A118 or ISO 13007 classifications suitable 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 colors for our tiles. due to the large array of grout colors 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 installation, except the grouting portion.
  - next, when ready to grout, ask your contractor to bring all grout color charts from his preferred grout manufacturers, for your review.
  - lastly, pick a time of day when you are happiest with the lighting in your space (either natural, installed or a blend of both). in that lighting and time of day, select the grout color that best matches your tiles.
- if working with patterned, highly color-variegated or a combination of tiles, we recommend you follow the above recommendations—matching the grout to the color in your pattern that you wish to feature.
- due to the bricks' texture, we recommend applying sealer or grout release before grouting to lessen risk of grout haze and allow for easier clean up. as it may be tough to remove grout from the bricks' surface even with use of a grout release, we recommend the use of a grout bag/gun and working carefully.
- 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.

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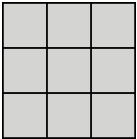
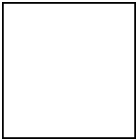
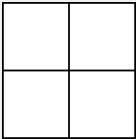
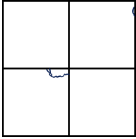
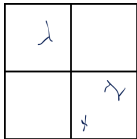
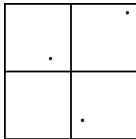
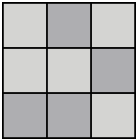
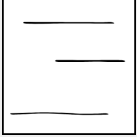
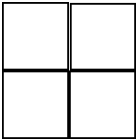
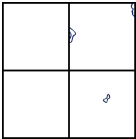
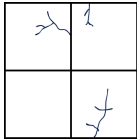
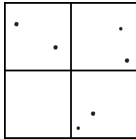
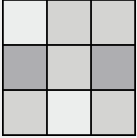
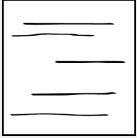
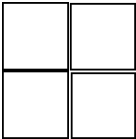
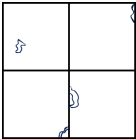
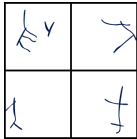
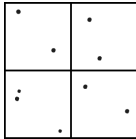
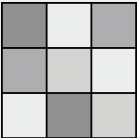
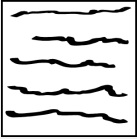
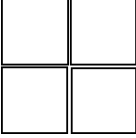
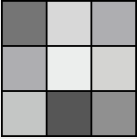
## SEALING, MAINTENANCE AND CARE

- foundry flats forge thin brick tiles are sensitive to acids. please do not 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 - EXTREME                                                                                                                   | SLIGHT - HEAVY                                                                                                                                     | SLIGHT                                                                                         | N/A                                                                                             | N/A                                                                                               | N/A                                                                                               |
| <br>low                                           | <br>smooth                                                        | <br>slight    | <br>will occur | <br>will occur | <br>will occur |
| <br>slight                                        | <br>slight<br>(braze, petrol)                                     | <br>medium    | <br>prevalent  | <br>prevalent  | <br>prevalent  |
| <br>medium<br>(cast iron, sawdust)               | <br>medium<br>(cast iron)                                        | <br>heavy    | <br>heavy     | <br>heavy     | <br>heavy     |
| <br>heavy<br>(braze, factory, petrol)           | <br>heavy<br>(alloy flux, factory, sawdust, sediment, volcanic) | <br>extreme | n/a                                                                                             | n/a                                                                                               | n/a                                                                                               |
| <br>extreme<br>(alloy flux, sediment, volcanic) | n/a                                                                                                                                                | n/a                                                                                            | n/a                                                                                             | n/a                                                                                               | n/a                                                                                               |

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## FLOOR RATING

foundry flats thin bricks petrol and braze are rated iv (can be used for light residential to heavy commercial foot traffic), and sawdust, sediment and alloy flux are rated i (can be used for light residential foot traffic) as outlined below. 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.

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## PRODUCT DESCRIPTION

american-made, foundry flats forge thin brick tiles emphasize classic, industrial style and are manufactured to last and improve with age.

foundry flats forge thin brick tiles shall be selected by the architect/designer/owner from manufacturer's standard sizes, shapes and glazes. foundry flats forge thin brick tiles meets or exceeds ASTM-C1088 Type TBS or TBX.

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## PRODUCT DESCRIPTION

clay and shale.

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## DIMENSIONS

| SHAPE        | PIECE DIMENSIONS                            | WEIGHT                        |
|--------------|---------------------------------------------|-------------------------------|
| FORGE        | 6 cm x 20 cm x 2 cm*<br>(2 ½" X 8" X ¾")    | 0.38 kg per tile<br>(0.85 lb) |
| CORNER—FORGE | 6 cm x 20 cm x 9.5 cm<br>(2 ½" X 8" X 3 ¾") | 0.45 kg per tile<br>(1 lb)    |

\*Please note all dimensions are nominal, and can vary +/- ⅛".  
Standard thickness for Forge bricks is ¾" with the exception of Factory which has a ½" thickness.

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## AVERAGE COEFFICIENT OF FRICTION (DCOF ACUTEST)

testing has not yet been performed, but the textured, unglazed surface will provide slip resistance.

\*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

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## FREEZE/THAW RESISTANCE (ASTM C1026)

foundry flats forge tiles are freeze/thaw resistant with the exception of factory, volcanic and cast iron.

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## WATER ABSORPTION (ASTM C373)

| COLORWAY   | 5 HR BOIL | 24 HR COLD SOAK | SATURATION COEFFICIENT |
|------------|-----------|-----------------|------------------------|
| ALLOY FLUX | 12.0%     | 9.0%            | 0.75                   |
| BRAZE      | 9.0%      | 5.7%            | 0.64                   |
| CAST IRON  | 9.3%      | 6.2%            | 0.67                   |
| FACTORY    | 9.4%      | 6.3%            | 0.67                   |
| PETROL     | 14.0%     | 5.9%            | 0.64                   |
| SAWDUST    | 9.82%     | 6.7%            | 0.69                   |
| SEDIMENT   | 10.0%     | 6.9%            | 0.70                   |
| VOLCANIC   | 9.0%      | 6.5%            | 0.70                   |

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## ACID RESISTANCE

foundry flats thin bricks 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.

foundry flats bricks are considered 'inherently non-emitting sources' under the low-emitting materials credit of LEEDv4/v4.1. **\*this is a credit for foundry flats 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/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, applies as there is pre-consumer recycled content in our bricks. **\*this is a credit for foundry flats that is eligible to be used toward LEED.**

\* foundry flats can contribute to two LEEDv4/v4.1 points under the low-emitting materials credit and under the mr credit material sourcing.

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## **RECYCLED CONTENT**

the clay mix in our foundry flats bricks consists of grog (ground up brick and brick waste). see material sourcing disclosure above.

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

there is approximately 8.4% pre-consumer material content (grog) in each of our foundry flats bricks.

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## **FIRE RATING**

brick masonry has traditionally been used to provide superior fire resistance and safety for occupants. since the primary ingredient in brick is clay which is fired to around 2000 f, it is classified as a non-combustible material. as such, it is an excellent choice to resist or confine fires.