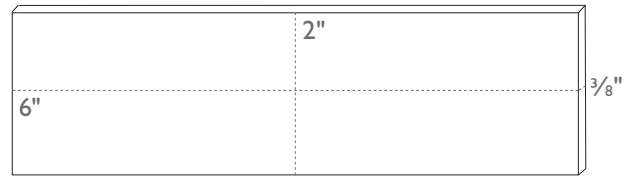
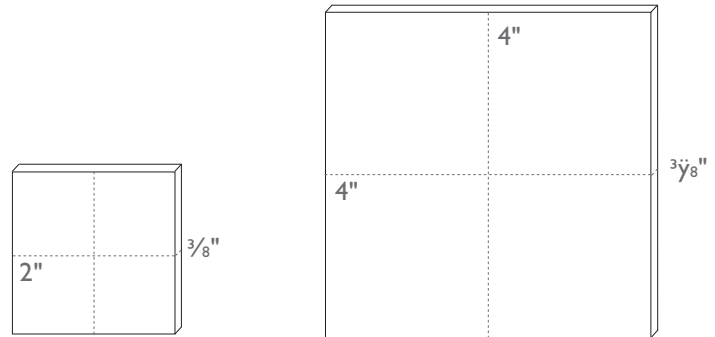


EASTERN EARTHENWARE

USAGE	Y/N
interior floor	Y*
interior wall	Y*
exterior floor	N
exterior wall	Y*
residential heavy traffic	Y
commercial light traffic	Y
radiant heating compatible	Y
fireplace surround	Y
shower	Y*
steam shower	Y*
fountain waterlines	Y*
freeze thaw	N
pool waterlines	Y*
heat resistant	Y
sink backsplash	Y*
stove backsplash	Y*
grout type	ultracolor plus fa
grout joint size	butt joint or 1/16"
UV resistant	Y



Standard thickness for all sizes of Eastern Earthenware is 3/8".

Please note all dimensions are nominal and can vary plus or minus 1/8".

- * There are specific installation requirements for this usage, read more information under the installation, sealing, grout, and wet area application sections of this document

EASTERN EARTHENWARE

INSPECTING YOUR SHIPMENT

- All Eastern Earthenware tiles are made by hand and feature unexpected, noticeable variations in thickness, depth, color, shade, texture, size and crazing.
- **IMPORTANT:** Due to the noticeable color and shade variations, it is very important to blend the tiles from ALL BOXES once they arrive and place them in their installation area to ensure you have the layout you want before installing. Do not install without blending tiles from all boxes.
- For the 2" x 2" mesh mounted tiles, the pieces can be lifted and moved around on the mesh in order to blend them.
- Industry standard suggests adding at least 15% overage due to tile cuts, potential breakage, or future repairs.
- Note that due to the firing methods and raw materials used to create glazed clay tiles, your order of Eastern Earthenware 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. It may also contain some warped tiles as a result of the wood firing method used.

clé **WARNING:** having an installation with tiles that experience any of the above imperfections is the traditional look for Eastern Earthenware installations. Any editing of these naturally occurring imperfections from your tile shipment will greatly reduce the traditional appeal of your installation.

- 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.
- Dust and residue from shipping should be cleaned prior to installation. This is typically done as tile is being set with a quick dip of each tile into a water bath.

INSTALLATION

- clé's guides are only to help direct you in the right path for a proper installation. Each project is unique and therefore requires a professional who can provide the exact specifications for your project.
- Please refer to the current edition of the TCNA Handbook for best installation results and ANSI A137.1 American National Standard Specifications for Ceramic Tile to reference for specifications.
- Tile is merely the surface of your construction. Installation problems will arise from substrate or construction engineering and/or installation issues. Please refer to your project architect, structural engineer and/or installer to have the best results for your tile finish.
- As is standard in the tile industry, installation deems acceptance of materials. Do not install if there are visible issues. If you have any doubts or are unsure of what qualifies as a visible issue for the tile you are installing, please reach out to us prior to installation. Our tiles are subject to variations in color, texture, size and finish. Do not install if you have any doubts about visible issues. Misuse by contractor or end-user including but not limited to negligence, physical and/or chemical abuse is not covered by clé's warranty.
- Prior to installation, dampen the tiles before setting by quickly dipping tiles in water for 2-3 seconds.
- Be sure to have 95% or more adhesive on the back of the tile to ensure the best bond when setting the tile.

- DO NOT USE TAPE during product installation, or otherwise. We cannot guarantee our products' safety against various construction tapes—INCLUDING BLUE TAPE.
- To accommodate variations in tile sizes, wedge spacers should be used when needed to keep tile lines straight.
- If installing 4" x 4" on a shower floor, vertical staggering of the tile layout, increasing grout joint size or opting for the 2" x 2" squares can help increase slip resistance. 2" x 6" tile can be installed in a herringbone pattern. Please refer to the grout section below for more information.
- The natural variation in thickness and size of Eastern Earthenware creates an uneven surface which can increase slip resistance because of the bare foot's ability to form around the tile.
- Note that mounted 2" x 2" tile sheets are a more affordable means of setting tiles so that a tile installer does not need to install one tile at a time. This support is generally offered for tiles 3" and smaller.
- Mounted 2" x 2" allow for contractors not to have to set individual tiles that are very small—but they still have to manage the installation from sheet to sheet—this can be done in whatever way is easiest for the contractor (dismantling a sheet so they have loose tiles that can be used to puzzle sheets together with a closer grout joint—or off-setting sheets, etc.) Mounted sheets are an assist—not a magic wand on an installation.
- Mounted tiles are a convenience for the installer and should also provide a cost savings for the client because it is faster and easier to install small tiles that are sheet mounted. However, sheet mounting does not eliminate the care and expertise required to set the sheets of tiles. Sheet mounted tiles should be considered a support and not a replacement for ensuring that the sheets are mounted carefully amongst and besides one another, just as the tile setter would carefully install the individual tiles. If you or your installer believes that sheet mounted tiles are created to perfectly align with one another, this is incorrect.
- Tiles that are sheet mounted for perfect alignment to one another are considered tile murals and would have to be ordered to fit a specific project. They would then be set to exact project measurements, sheet mounted, then cut into sheets that are numbered and lettered to be perfectly reconfigured on the job site.
- The 2" x 2" sheet mounted tiles are not tile murals. Please be clear that your contractor will need to provide a level of expertise to align each sheet in order to reduce the grout joints that would show a grid line of mounted sheets. This takes time and expertise, but is still much easier than installing small tiles, one tile at a time.
- Trim is not part of Eastern Earthenware. Trim, in general, is not a tradition for tiles outside of the U.S. and specifically for tiles that have an ancient history.
- For jobs requiring a finished edge—we recommend the traditional craft of trimming tiles. Please see our separate [trim guide](#) illustrating how to finish Eastern Earthenware without trim:
 - For turning corners and for mud-set tiles, we recommend mitering your tiles. This provides a beautiful corner finish and in the case of a mud-set requiring a quarter round—this substitutes the quarter round finish with a squared miter finish.
 - For finishing edges on a vertical surface, we recommend either mitering the tiles to cover the edges and setting materials (as stated for turning corners and for mud-sets) or we recommend building up your sheetrock surface to allow the plane of the Eastern Earthenware to be on the same plane as your sheet-rocked wall.
- Pool and fountain waterlines only with waterproof, penetrating sealant in non freeze/thaw locations.

SEALANT

- clé only recommends the use of [Miracle 511 Porous Plus](#) for an invisible sealant finish.
 - We recommend applying sealant or using a grout release prior to grouting if the tile has visible crazing.
 - **IMPORTANT:** If Eastern Earthenware tiles are being grouted with a contrasting grout color vs. a matching one, then you must also apply a penetrating sealant or grout release prior to grouting in order to minimize the possibility of the contrasting grout curing in the inherent hairline cracks, pits, and/or chips.
 - Dry applications of Eastern Earthenware do not need to be sealed as the final step of installation.
 - In wet areas of Eastern Earthenware (backsplashes, showers, steam showers, pool & fountain waterlines) grouted areas, including grouted pits and chips and areas of visible crazing must be sealed as the final step of installation. Sealant will not penetrate the glazed tile surface but it will penetrate and protect grouted areas, pits and chips and areas of crazing or etching that reaches the clay body.
 - If your contractor is having any issues or questions regarding this sealant, please have them reach out to Miracle tech support directly, as they are the best and fastest line of resolution.
 - PLEASE FOLLOW ALL MIRACLE SEALANT INSTRUCTIONS FOR BEST RESULTS as well as MAINTENANCE UPKEEP RECOMMENDATIONS.*
- * **HINT:** if water and oil do not bead up on the grouted areas then the sealant was not applied properly.

GROUT

- clé ONLY recommends [Mapei Ultracolor Plus FA](#) grout to reduce the risk of grout haze and staining. Make sure to always follow the manufacturer's instructions. Letting the grout sit for even a short period of time can be problematic.
- Because all Eastern Earthenware is hand cut into the individual tiles after firing, they are crafted to allow for a very tight grout joint.
- clé recommends a 1/16" grout joint or butt joint.
- Grout is customarily used to fill any gaps left by wedge spacers between tiles as well as any pits, chips or cracked portions of Eastern Earthenware.
- To increase slip resistance on shower floors using 4"x4" tile, we recommend broadening the grout joint size on the setting of the pan tiles to 3/16".
- **IMPORTANT:** We do not generally recommend using a contrasting grout color with Eastern Earthenware, as it will highlight the thin 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 of the imperfections that are standard to this tile. additionally, you must make sure to apply a penetrating sealant or grout release prior to grouting in order to minimize the possibility of the contrasting grout curing in the inherent hairline cracks, pits, and/or chips.
- Grout color selection is always up to our client and/or their design professional. However, clé is often asked for our opinion on best grout selections for our tiles. And due to the large array of grout colors that are now available, clé would like to offer this general guideline on a foolproof grout color selection for any of your clé tiles.
 - First, have your professional tile contractor complete your tile installation, except for the grout portion.

- Next, when ready to grout, ask your contractor to bring ALL grout color charts from his preferred grout manufacturers, for your review.
- Lastly, choose a time of day when you are most pleased with the lighting in your space (either natural lighting, installed lighting or a blend of both). During that lighting and time of day, select the grout color that best matches your tile selection.
- Note that the full Mapei Ultracolor Plus FA color catalogue contains 40 colors to choose from. Visit the [Mapei website](#) to view.
- If you are working with a highly color-variegated tile or a combination of tiles (checkered or otherwise), we recommend that you follow the above recommendations—but match your grout to the color in your varied tile or tile combination that you would most like to accentuate.
- If your contractor is having any issues or questions regarding this grout, please reach out to Mapei tech support directly at 1-800-992-6273 as they are the best and fastest line of contact.

STAINING

- Grout staining is only a problem if the guidelines set for Ultracolor Plus FA by Mapei aren't followed properly.
- Please make sure to follow the Mapei Ultracolor Plus FA [application and cleanup instructions](#) to avoid the risk of staining/grout haze and to allow for easy application and cleanability. Read all installation instructions thoroughly before use. Using consistent application procedures will produce consistent results. Some of these procedures for Mapei Ultracolor Plus FA include:
 - Spread Ultracolor Plus FA immediately into the joints with a rubber grout float. Make sure that all joints are well-compacted and free of voids and gaps.
 - Remove excess grout from the tile surface, moving the grout float diagonally to the joints while Ultracolor Plus FA is still fresh.
 - After the grout has set (follow proper setting time) use two buckets of cleaning water: One for rinsing the majority of the grout residue from the grout sponge, and one for moistening the sponge in clean water.
 - Change your water buckets frequently to prevent the development of a haze on the tile surface. To prevent discoloration and soft/powdery joints, avoid cleaning with excessive water.
- Should your contractor choose to use another brand of grout other than Mapei Ultracolor Plus FA, be aware that the dyes used to pigment most grouts can stain the tile.
- If your contractor selects brands other than Mapei grout or Miracle sealant, please have them reach out to the respected representatives of those manufactures for advice and support on failures.

WET AREA APPLICATION

All Eastern Earthenware can be installed on backsplashes, showers, steam showers and pool and fountain waterlines* with application of a waterproofing, penetrating sealant.

When installing, make sure these specific waterproofing precautions are taken:

- A waterproof membrane is used under the tile and a water resistant, penetrating sealer (Miracle Sealant 511 Porous Plus) is used to seal the grouted areas and any pits and chips on the tile surface.
- Single coat reapplication of the penetrating sealant is required once a year on all grouted areas in shower applications due to the continuous exposure to water.
 - Reapplication is needed more frequently if installation is in a steam shower.
- For superior water repellency in steam showers, we recommend applying Miracle 511 Impregnator in addition to Miracle 511 Porous Plus.
- To increase slip resistance in wet area applications of 4"x4" tile (especially shower floors), we recommend broadening the grout joint size on the setting of the pan tiles to $\frac{3}{16}$ " or vertical staggering of the tile layout. 2"x6" tile can be installed in a herringbone pattern.
- For pool and fountain waterlines, contact Mapei at 1-800-992-6273 (U.S. and Puerto Rico) or 1-800-361-9309 (Canada) and Miracle Sealant tech support directly at 1-877-385-8155 for best waterproofing application methods, installation suitability and maintenance requirements.

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

EXTERIOR INSTALLATIONS

- **IMPORTANT:** Eastern Earthenware tiles are not freeze thaw rated. Therefore we do not recommend and cannot warrant installing these outdoors in areas that regularly experience freezing temperatures*

* If you plan on installing these outdoors in areas that experience freeze/thaw, we cannot guarantee there won't be installation failures. Installations in freeze/thaw locations require flashing the top of vertical installations to prevent moisture from dripping behind the installation. In addition, the installation must be completely sealed and maintained with a weather and water resistant sealant like Miracle 511 Porous Plus.

With application of Miracle Sealant, these tiles can have resistance to freeze/thaw issues. However, oftentimes there are installation failures because the specific installation guidelines and sealant maintenance is not properly followed. But if completed and maintained correctly (see manufacturer's instructions) then you can proceed WITH CAUTION.

If you can comply with all of the above and understand that without the sealant your install won't hold up - then it's up to you to proceed with installing this tile in a freeze/thaw location. We recommend your contractor reach out to both Mapei tech support for installation support and Miracle Sealant tech support on the waterproofing of the tiles.

MAINTENANCE

- Over time, a natural patina will occur on floors as they are maintained and naturally wear.
- Depending on specific site conditions, Eastern Earthenware tiles are subject to wear over time. This inherent traffic pattern is a highlight of using Eastern Earthenware and should be both anticipated and favored.
- To minimize sizable traffic damage, a means for people to clean abrasive materials off their shoes before walking on a glazed Eastern Earthenware floor should be provided.
- Single coat reapplication of the penetrating sealant is required once a year on all grouted areas in shower applications due to the continuous exposure to water.
- Reapplication is needed more often if installation is in a steam shower or pool/fountain waterline. Please refer to a professional for this.
- For steam showers, opening windows/doors to help some of the moisture dissipate faster after use will help rid extra moisture.
- For superior water repellency in steam showers we recommend applying Miracle 511 Impregnator sealant in addition to 511 Porous Plus.
- Check with the Miracle Sealant tech support directly at 1-877-385-8155 for best advice on applying and maintaining sealants.

CLEANING

- Eastern Earthenware tiles require minimal maintenance. Mild, pH neutral soaps should be sufficient for most cleaning—test before general use.
- Clean using soft materials, like a cloth, instead of coarse materials.
- Always avoid harsh chemicals and acidic or alkaline cleaning products.
- Immediately clean up spills—do not allow liquids to sit on the tile surface. Excess liquid and moisture can stain, pit and crack tile—even when properly sealed.
- Vacuum or sweep regularly—abrasive dirt and materials can scratch the surface.
- Non-slip mats or area rugs should be placed inside and outside entrance ways to remove abrasive materials that can scratch and dirty the tile surface.
- Mop floors when necessary with warm, clean water and pH neutral cleaner.
- Interior wall installations can be cleaned with warm water and damp microfiber cloth.
- Shower installations should be squeegeed after each use to prevent hard water stains, soap scum and mildew.
- Grout lines can be cleaned with warm water and a soft bristled cleaning brush.
- clé recommends the use of Miracle Porcelain & Ceramic Tile Cleaner to remove stubborn stains, grease build up, soap scum, hard water deposits and everyday grime.
- Miracle Tile & Stone Cleaner is effective as an ongoing maintenance cleaner and is gentle for everyday use.

EASTERN EARTHENWARE TRADE SPECIFICATIONS

What's in our tile: clé's eastern earthenware is a celebration of the power of fire and clay and the primal transformation that occurs when the two combine. Unlike the uniform glazes of tiles fired in gas or electric kilns, eastern earthenware is heralded for its variation in color, shade and exquisite surface texture. This is the result of wood-firing where everything from the fusion of the glazes with the clay, placement in the kiln, the dispersion of ash, to the seasons and weather all serve to create an alchemy that transforms each tile into a work of art.

COLOR AND TEXTURE VARIATION

Eastern Earthenware are rated V2-V4, T3-T4. Each kiln load is rated individually. Variation ratings can be found at the top right hand corner of each individual product page online.

Due to the handmade craftsmanship of many of our tiles and the variety of materials used, there are degrees of variation in our tiles color, shade and texture. These differences are more pronounced in certain types of tiles than others, especially in tiles from separate production lots, or "batches".

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

COLOR VARIATION

- V1** low variation
- V2** slight variation
- V3** medium variation
- V4** heavy variation
- V5** extreme variation

TEXTURE VARIATION

- T1** smooth
- T2** light texture
- T3** medium texture
- T4** heavy texture

FLOOR RATING

Eastern Earthenware is rated III
(can be used for light residential to 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 DESCRIPTION	Eastern Earthenware are handmade, glazed terracotta tiles.					
PRODUCT COMPONENTS	Clay, glaze, pigments					
PITTING, CRACKING & EDGE-CHIPPING	<p>Note that due to the firing methods and raw materials used to create glazed clay tiles, your order of Eastern Earthenware 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.</p> <p>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.</p>					
DIMENSIONS	<table border="1"> <tr> <td rowspan="2">Square</td> <td>5 cm x 5 cm x .95 cm (2" x 2" x 3/8") / .04 kg per tile (.09 lb)</td> </tr> <tr> <td>10 cm x 10 cm x .95 cm (4" x 4" x 3/8") / .20 kg per tile (.44 lb)</td> </tr> <tr> <td>Rectangle</td> <td>5 cm x 15 cm x .95 cm (2" x 6" x 3/8") / .23 kg per tile (.50 lb)</td> </tr> </table>	Square	5 cm x 5 cm x .95 cm (2" x 2" x 3/8") / .04 kg per tile (.09 lb)	10 cm x 10 cm x .95 cm (4" x 4" x 3/8") / .20 kg per tile (.44 lb)	Rectangle	5 cm x 15 cm x .95 cm (2" x 6" x 3/8") / .23 kg per tile (.50 lb)
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Rectangle	5 cm x 15 cm x .95 cm (2" x 6" x 3/8") / .23 kg per tile (.50 lb)					

* Please note all dimensions are nominal and can vary plus or minus 1/8".

<p>AVERAGE COEFFICIENT OF FRICTION (DCOF ACUTEST)</p>	<p>Glazed 4" x 4" butt joint: avg. 0.25 Glazed 2" x 6" butt joint: avg. 0.30</p> <p>For increased slip resistance, please see more information below under "Wet Area Application".</p>
<p>FREEZE/THAW RESISTANCE (ASTM C1026)</p>	<p>Eastern Earthenware are not freeze/thaw resistant.</p>
<p>WATER ABSORPTION (ASTM C373)</p>	<p>avg. 10.8%; non-vitreous</p>
<p>ACID RESISTANCE</p>	<p>Eastern Earthenware tiles are not resistant to acids and should be cleaned with pH neutral cleaners.</p>
<p>LEED CREDITS</p>	<p>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.</p> <p>Eastern Earthenware are considered 'inherently non-emitting sources' under the Low-emitting Materials Credit of LEEDv4/v4.1. This is currently the only credit for Eastern Earthenware that is eligible to be used toward LEED.</p> <p>'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.</p> <p>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).</p> <p>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.</p> <p>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.</p> <p>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 re-used 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. <i>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.</i></p>

RECYCLED CONTENT

There is no recycled content in Eastern Earthenware 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.

Eastern Earthenware 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.”

