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PINE HALL BRICK

BUILD YOUR DREAMS.

2701 Shorefair Drive, Winston-Salem, NC 27105 | pinehallbrick.com | 1-800-334-8689

Product Features & Specifications

Square-Edge Series Product Features & Colors

Features: square edge brick pavers available in 4"X 8" and Modular Size

Colors: 4x8" available in Red, Full Range, Beale St., Autumn, Cocoa, Rose, Dark Accent, Buff, Grey and Ironspot from Madison, NC Plant. Modular available in Red, Full Range and Cocoa from Madison, NC Plant.

Square-Edge Series 2.25" Product Specifications

Unit clay paver shall conform to the requirements of ASTM C902, Class SX, Type 1, Application PX and C67 for Freeze and Thaw. Units shall be standard 4" x 8" (or standard modular) size having dimensions of 2 1/4" x 4" x 8" (or 2 1/4" x 3 5/8" x 7 5/8"), square-edge on both sides, 8,000 psi minimum compressive strength and below 8% cold water absorption. Paver shall conform to Pathway [color] as manufactured by Pine Hall Brick Co., Inc., Winston-Salem, North Carolina and distributed by [party responsible for specification].

Square-Edge Heavy Vehicular 2.75" Product Specifications

Unit clay paver shall conform to the requirements of ASTM C1272, Application PA and C67 for Freeze and Thaw. Units shall be standard 4" x 8" size having dimensions of 2 3/4" x 4" x 8", 10,000 psi minimum compressive strength, minimum breaking load of 475 lb/in and below 6% cold water absorption. Paver shall conform to Pathway Series as manufactured by Pine Hall Brick Co., Inc., Winston-Salem, North Carolina and distributed by [party responsible for specification]. *(Note: Designer needs to emphasize proper paver spacing of 1/16" min to 3/16" max in written specs when specifying this paver in a heavy vehicular paving application. Expect chippage regardless.)*

Jan 2021

STONE LOOK

SKY



Available size



24" x 24"
± 0.8"

Color shading



DESERT



Available size



24" x 24"
± 0.8"

Color shading



ABSOLUTE



Available size

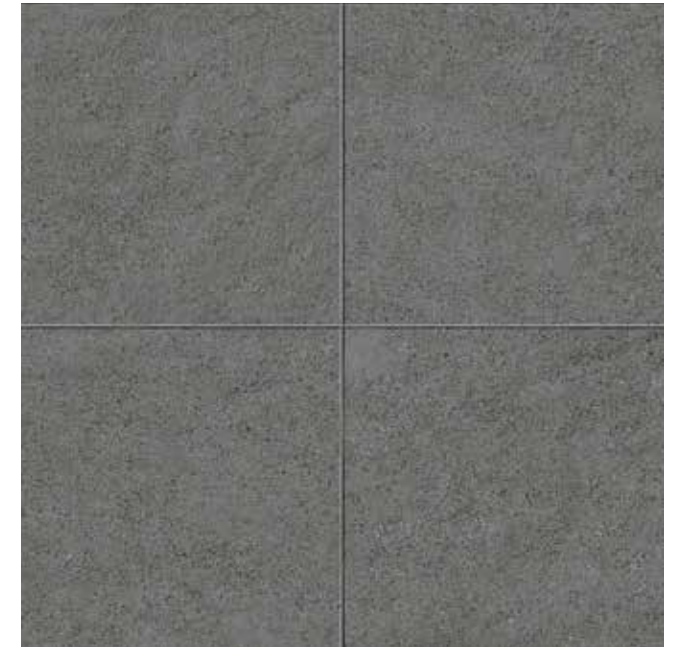


24" x 24"
± 0.8"

Color shading



COSMOS



Available size



24" x 24"
± 0.8"

Color shading



The color of pavers printed in this catalog may differ from actual pavers. Paver color reproductions in this catalog are representative only. Slight tone and shade variations are inherent in porcelain pavers. Before selecting a color, we recommend that you contact your local representative, who will provide you with a sample piece of the requested paver.

This porcelain paver product is manufactured with a V2 shade variation. Remember that the amount of color as well as the texture of each piece may vary from paver to paver. Inspect the product immediately upon delivery and select pavers from many boxes during installation to minimize and blend any possible color difference.

Color Shading



TECHNICAL INFORMATION.

PROJECT

OUTDOOR FLOOR DESIGN

Frontier20 Blue Select Bluestone - 24"x24"

Frontier20 Blue Select Bluestone Coping - 12"x24"

Frontier20 Blue Select Bluestone Coping Corner - 12"x24"

WALL DESIGN

Veneer World Pro LedgeStone Bluestone Blue Select - 6"x24"

INSTALLATION INFORMATION AND RECOMMENDATIONS.

INSTALLATION INFORMATION AND RECOMMENDATIONS.

Specific details and instructions are given for each of the following installation options. Different climates and geographical locations will affect the thickness of the base. Depending on the location, contractors will install the standard base thickness to install porcelain pavers for the needs of the area. When installing porcelain pavers, the bedding course sand must be pre-compacted and then struck off with a screed to the required thickness as shown in the drawings. Before the laying of the porcelain pavers, the sand layer underneath must be pre-compacted. The sand layer needs a 5 to 6% moisture content to insure a smooth strike off finish.

Compacting dry sand will not give the desired results.

- Only use a paver saw with a wet cut porcelain blade to wet cut porcelain pavers.
- Before installing your porcelain pavers in sand set installations, pre-compact and strike off your sand leveling course.
- Plastic $\frac{3}{16}$ " (4 mm) spacers ($\frac{1}{4}$ " - 6mm for MPD installation) must always be used to install pavers on sand set and permeable installations. The photo on the right illustrates the use of the $\frac{3}{16}$ " spacer to support and space the 4 paver corners.
- Never install pavers with porcelain to porcelain contact.
- The use of plate compactors is not recommended to be used on the porcelain pavers.

JOINT FILLING

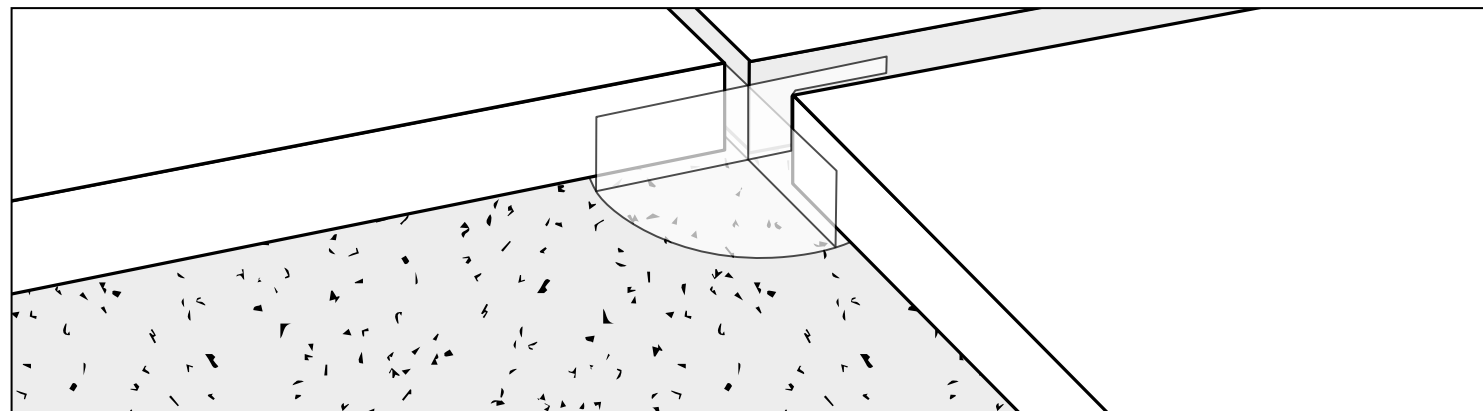
When installing porcelain paver on sand set base, fill the paver joints with these options:

Traditional sand

Fill the open joints with traditional dry sand until completely filled. Sweep any excess sand off the pavers. Refilling of the joints with sand may be needed in the future due to wind and rain erosion.

Polymeric sand

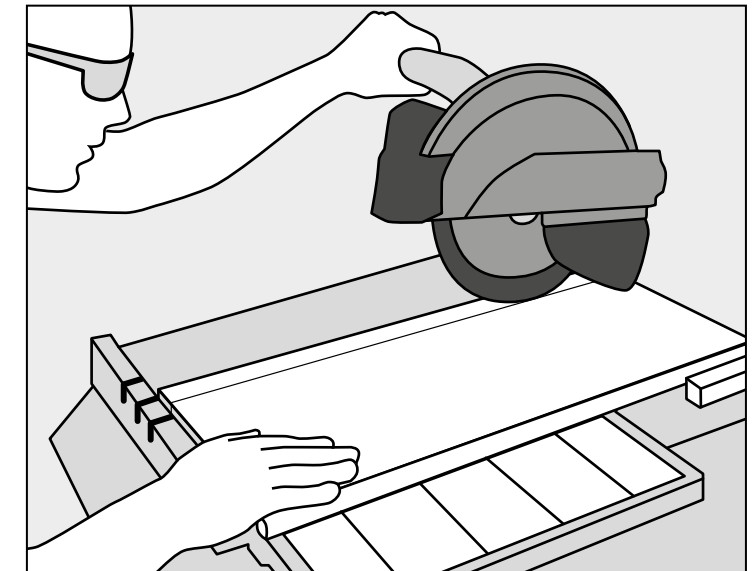
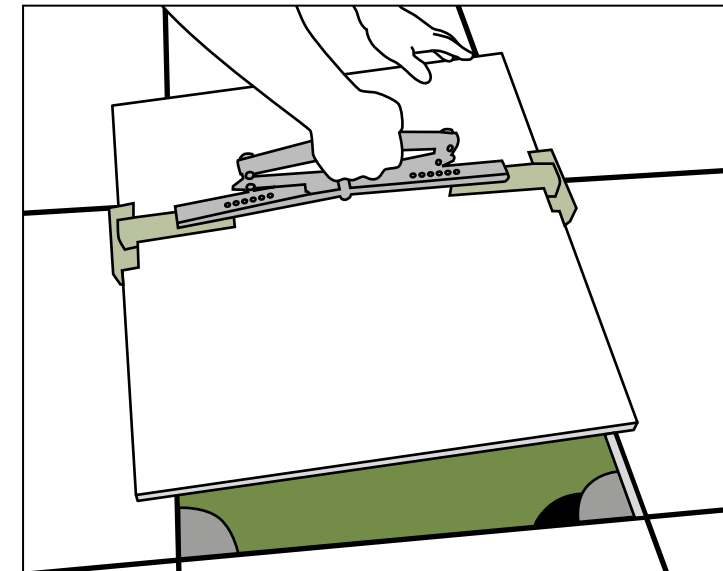
Polymeric sand is a blend of polymers which harden when subjected to moisture. Sweep the sand into the open joints until completely filled. All excess sand and dust must be swept from the surface. Use a blower for the final dust removal to make certain all excess sand is removed. Any residual sand or dust can result in staining of the surface. Once the filling of the joints and the cleaning of the surface is complete, mist the pavement with water which activates the polymer and cures the mixture.



HANDLING AND SPECIALTY TOOLS.

Porcelain paver pallets are shipped with a very strong plastic covering and the individual units are packaged in protective cardboard boxes. The protective cardboard boxes guard them from the possibility of chipping. The handling of multiple loose stones can result in damaging or chipping of the pavers. Protect any un-used boxed pavers from the elements once the plastic shipping cover is removed. This insures the integrity of the protective cardboard boxes.

Wet cut paver saw is used to cut paver accurately and cleanly to fit around edges and corners. The saw must be equipped with a diamond blade manufactured for wet cutting porcelain and designed to safely cut a 24" (60 cm) length porcelain paver. A paver clamp to easily handle the installation and removal of pavers. Gloves are highly recommended while handling and installing porcelain slabs to protect the hands from injury. Notched trowels and grout float tools for cementitious adhesive and grout installation. Follow the adhesive and grout manufacturer's recommendations to select the appropriate tools needed for application.



IMPORTANT NOTE: LEGAL DISCLAIMER
The nominal measurements include 4 mm (approx $\frac{3}{16}$ ") for product spacers which are sold separately. Although extreme care has been taken to ensure the accuracy of all measurements set forth herein, manufacturer assumes no liability relating thereto.

IMPORTANT NOTES:
1. Use the manufacturer's instructions when choosing polymeric sand for your project.
2. The use of cement blended sand and polymeric sand can reduce plant growth and insect infiltration within the joint infill material.
3. Whether using traditional sand or a cemented blended sand, ensure the gradation of the sand is fine enough to pass through and fill the joints.

LINEAR CUT.

The videos linked below show how to properly cut thick porcelain pavers (porcelain tiles with 20 mm thickness) currently used for outdoor installations. Cutting these porcelain thick pavers is very different than cutting standard thickness tiles. The extreme hardness of the material, combined with its thickness, are the main factors that will put cutting tools to the test. Based on the experience of many professional tile installers, what often happens is that the basic blades make one or two good cuts on very thick tiles and then lose their cutting power. This causes the diamond blade to be so ruined that it can't even be recovered with common abrasive stones. Many tile and brick installers have found a first solution for this: using segmented blades to cut these thicker tiles. These are more aggressive blades that easily cut this type of ceramics leaving though a very poor cutting finish. There is then the need to spend time after each cut to finish the cut edge of the tile, especially if it is going to be laid in a position that leaves that edge visible after installation. It is important that the cut is made using a professional wet saw cutting machine and that it is made by pushing (or pulling, depending on how the cutting saw is built) the blade parallel to the plane from the beginning of the cut, applying a horizontal force (figure 1 and 2) to the trolley while avoiding to push (or pull) with excessive force. **Please note that the cut has to be performed at once with one passage. It is very important to pull down the blade without touching the tile and then pull/push the disc to cut the entire paver all at once.**



FIGURE 1



FIGURE 2

It is not recommended (figure 3) to carry out the cut by applying a force perpendicular to the side of the cutting plane (basically pushing down the saw into the tile). In fact, performing a vertical cut could affect the internal tensions of the product and lead to tile breakage.



FIGURE 3

Another cutting method consists in making a groove about 2 / 3mm deep (figure 4) by applying a very light force perpendicular to the paver surface first and then making the final cut at once with one passage, as above reported in figure 1 and 2.



FIGURE 4

In both cases, it is always recommended to use high quality disc blades and to perform the revitalization operations of the latter whenever necessary to achieve a proper cut.

recommend using a high quality blade specific for porcelain and revive it often. By using a low quality blade, or a blade not specifically made for porcelain, it might need to be revived 2 or even 3 times during the same cut. This can lead to extra costs related to the use of many diamond abrasive stones or, even worse, it can significantly increase the likelihood of breaking the paver during the cutting process.

During cutting, always recommends the use of abundant water before, during, and after the cutting phases to minimize the presence or dispersion of ceramic powder and to cool down the blade.

Once the cut has been completed, clean the newly cut surface with water, in order to remove all the dust from the paver created by the cutting

DRILLING HOLES WITH CORE BITS.

The creation of holes in traditional 9 / 10mm thick porcelain tile is a common practice, but it is very delicate and requires experience and technique. This is even more true for 20mm thick porcelain paver, being this pArcticular tile thicker and more resistant. To carry out this specific cut, it is recommended to use drills or grinders together with high quality core bits for porcelain tile and paver. The use of low quality core bits could cause numerous breakages, together with an extremely accelerated wear of the tool due to the resistance of the 20mm porcelain stoneware. First of all, it is suggested to place the tile on a rigid support that absorbs the vibrations generated by the work (for example a panel of wood or regenerated rubber on a wooden panel).

After positioning the drill with the core bit in the desired position (remember to check that the drill is not in hammer mode) it is crucial to mark the exact point with a pencil, then proceed to place the core bit by tilting it slightly on the paver (**figure 5**).



FIGURE 5



FIGURE 6

Do not place the core bit perpendicularly (**figure 6**) to the paver surface as it could lead to the breakage of the paver itself.

Once the core bit is in place and already moving, gently (and without pushing too much) make a continual and constant oscillatory movement until the hole from top to bottom thorough the paver is complete (**figure 5**).

Use a high quality core bit specific for porcelain.

By using a low quality core bit, or a core bit not specific for porcelain, the likelihood of breaking the paver during drilling operation could increase. During drilling, use of abundant water before, during, and after the drilling phase to minimize the presence or dispersion of ceramic powder and to cool down the cutter.

Once the hole has been made, clean the hole with water, in order to remove all the dust from the surface of the paver created by the drilling. It is also possible, whenever needed, to adjust the shape of the hole created with specific tools that soften the cut made by milling eventual sharp/irregular edges of the hole.

These tools are always made with artificial diamonds and should be specific for porcelain tiles and pavers.

Please find below a link to a video of 20 mm porcelain pavers drilling:

<https://www.youtube.com/watch?v=SVwzk894qdl>

GENERAL RECOMMENDATIONS.

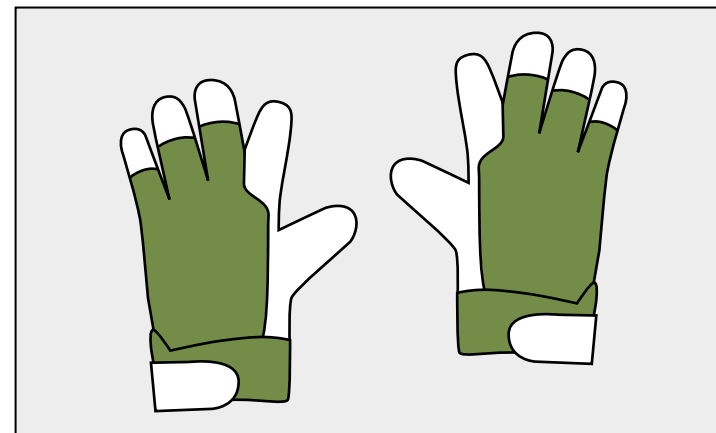
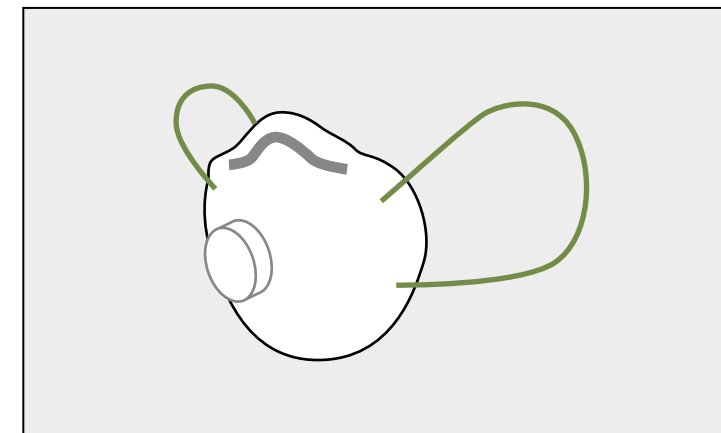
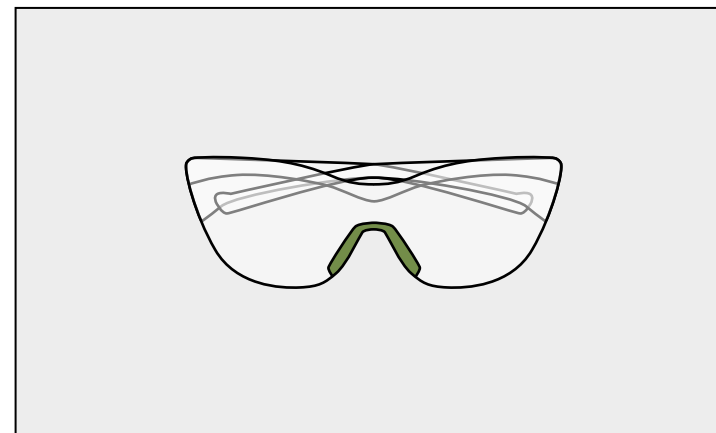
high quality tools and blades, specifically designed for porcelain. This is because 20mm thick porcelain is very strong and compact and does not behave, during cutting and drilling operations, like traditional thickness porcelain.

During cutting and/or drilling, use of abundant water before, during and after the drilling phases to minimize the presence or dispersion of ceramic powder and to cool the blade/core bit.

Use certified wet or suction tools to reduce and minimize the dispersion of ceramic powder.

Once the necessary operations are finished, it is very important to clean the surface of the tile from the dust to prevent it from being trapped by the filler needed for the joints.

Use safety glasses, mask, gloves and steel toe shoes.



CLEANING INFORMATION FOR PORCELAIN PAVERS INSTALLED OVER CONCRETE

FIRST FLOOR DEEP CLEANING AFTER INSTALLATION OVER CONCRETE

After Grouting the Joints (pic. 1) It is important to remove the excess grout with a sponge and clear water (pic. 2). After 12/48 hours, the grout in the joints will have "set up" /hardened significantly. There will be a noticeable residual "haze". Typically, a diluted acid cleaner specifically for removing "Grout Haze", combined with a soft scrubbing pad will remove the majority if not all the "Haze". Change your acid/water solution frequently for best results. It is also recommended to keep a bucket of clean water to remove the acid/water solution. It is recommended to keep and use clean dry towels to help remove as much residual water and keep the floor as dry as possible.

Please refer to the cleaning chemical company's suggested methods and dilution rates. (pic. 3). For areas with excess grout or grout that becomes adhered to the face of the tile, further cleaning with an Acid/ Water Solution may be necessary. Please refer to the Cleaning Chemical Company's instructions as not all acids or chemicals are the same.

The excess grout residue (pic. 4-5) must be removed so that it does not dry and stick on the surface. It is necessary to change the cleaning water frequently and rinse well. Care must be taken on inlayed, polished and especially Anti Slip products similar to Frontier20. The use of a floor-washing machine combined with the use of a diluted acid detergent helps reach the spaces between adjacent tiles and clean them properly. If such a cleaning procedure is not carried out, or if such cleaning is carried out too late, the grout residue creates an absorbent film, which holds dirt, making the surface difficult to clean: in this case, Architessa will not be liable for any damage caused to the surface.

ORDINARY CLEANING

Ordinary maintenance must be carried out using specialized detergents to remove stains but these detergents must not leave a wax, film or membrane residue. Rinsing well with plenty of clean water is a fundamental part of the cleaning procedure, therefore we advise against the use of products which state that they "do not need rinsing".

OTHER RECOMMENDATIONS

Bright colored products, in pArcticular white and extra-white tiles, are very delicate and, although for all intent and purpose are hygienically clean, However, they can get dirty more easily than darker tiles. It is therefore necessary to remember that these pArcticular products require careful regular maintenance. Sealers are unnecessary, especially in the case of our **Frontier20** Product line. Sealing will change the D.C.O.F. (Dynamic Co-efficient of Friction) resulting in a surface that will become more slippery. Also because Porcelain has such a low absorption the sealer will unlikely stick and most likely the sealer will flake off over time.



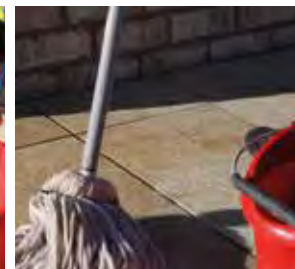
PIC 1. Fill joint with grout.



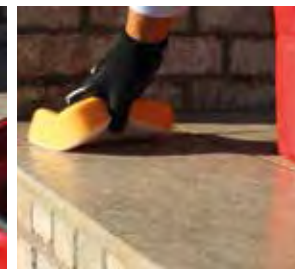
PIC 2. Remove excess grout with clean water.



PIC 3. Add specific acid cleaning agent for porcelain tile to clean water.



PIC 4. First floor deep cleaning after 12/48 h from installation.



PIC 5. Removal of excess grout residues with hard brush.

CLEANING AGENTS

| TYPE OF STAIN | SOLUTION | DETERGENTS | MANUFACTURER |
|---|----------------------|---|---|
| INORGANIC STAINS | | | |
| Cement Carbon Calcium Efflorescence Chalk Metallic residues Rust Cement-based grout Colored grout Wall paint | Acid | DETERGENT WITH AN ACID BASIS * | |
| | | DETERDEK or similar | UNITED STATES > Fila Chemicals USA, Corp.10800 N.W. 21st Street #170 Miami, FL 33172 USA Tel. +1-305-513-0708 email filausa@filasolutions.com |
| | | KERANET (liquid) or similar | MAPEI Americas Headquarters 1144 E. Newport Center Drive Deerfield Beach, Florida 33442 |
| ORGANIC STAINS | | | |
| Coca Cola Ice Cream Coffee Wine Beer Animal fats Vegetable fats Mustard Mayonnaise Ketchup Jam Linseed oil Lipstick Wax | Alkaline and neutral | LIMITED FOAM TYPE PRODUCT ** | |
| | | PS87 or similar | UNITED STATES > Fila Chemicals USA, Corp.10800 N.W. 21st Street #170 Miami, FL 33172 USA Tel. +1-305-513-0708 email filausa@filasolutions.com |
| | | FILACLEANER or similar | UNITED STATES > Fila Chemicals USA, Corp.10800 N.W. 21st Street #170 Miami, FL 33172 USA Tel. +1-305-513-0708 email filausa@filasolutions.com |
| | | Ammonium | Universal |
| RESIDUAL RINGS of organic nature | Saline solution | Sodium hypochloride (bleach for white laundry) | Universal |
| Silicone oils Machine Oil Resins and glazes Coal and natural rubber Encres et feutres | | FILASOLV or similar | UNITED STATES > Fila Chemicals USA, Corp.10800 N.W. 21st Street #170 Miami, FL 33172 USA Tel. +1-305-513-0708 email filausa@filasolutions.com |
| | | Aceton | Universal |
| | | NITRO - THINNER | Universal |
| | | TURPENTINE | Universal |
| | | TRICHLORETHYLENE | Universal |
| | | CIF AMMONIACAL | Universal |
| Tire | | HAND CLEANSER | Universal |
| Silicone and chewin-gum | | Ice+scraper | |

N.B. When using the above products, the instructions on the package should be followed.

* **Detergent with an acid base:** a detergent with an acid basis, specifically recommended after bath floor or wall installation, for the decalcificant cleaning and the regular maintenance.

** **Limited foam type product:** a limited foam type product degreasing and general cleaning, suitable for all types of stains but especially for remove of vegetable and animals fats.

PERFORMANCE COMPARISON PORCELAIN PAVERS VS. COMPETITOR OUTDOOR PAVING MATERIALS

| FEATURES | FRONTIER20 PORCELAIN PAVERS | WOOD PAVERS | CLAY BRICK | CIP (CAST IN PLACE) CONCRETE | CONCRETE PAVERS | NATURAL STONE |
|--------------------------|-----------------------------|--------------------------------|-------------------|------------------------------|--------------------------|-------------------|
| Stainable | No | Yes | Yes (Highly) | Yes | Yes | Yes (Highly) |
| Freeze Thaw Proof | Yes | No | No | No | No | No |
| Salt Resistant | Yes | No | Salt Will Degrade | No | No | No |
| Acid Resistant | Yes | No | Acid Will Burn | No | No | No |
| Scratch Resistant | Highly | No | Somewhat | No | No | No |
| Moisture Absorption | < 0,5% | Highly Varried | 5% | 5% | 5-10% | ≥ 5% |
| Easy To Repair | Yes | Yes | No | Can Not | No | No |
| Uv Resistant | Unaffected | No | Yes | If Sealed | Yes/No | Unaffected |
| Needs Sealed | Never | Yes | Recommended | Recommended | Recommended | Recommended |
| Pressure Washer Safe | > 1500 PSI | No | Not Recommended | > 1500 PSI | No | No |
| Environmentally Friendly | Facility 98% Green | Many Exotic Rainforest Species | No | Large Carbon Foot Print | Possible Fly Ash Content | Mined Or Imported |
| Recycled Content | 20% In Each Paver | No | Not Possible | Not Possible | If Possible Less Than 5% | Not Possible |

| PHYSICAL PROPERTIES | TEST ASTM | NORTH AMERICAN STANDARD A137.1* | RESULTS |
|---|---------------|---------------------------------|-------------------------|
| Water absorption * | C373 | ≤ 0.5% | COMPLY WITH ANSI A137.1 |
| DCOF Average dynamic coefficient of friction ** | BOT 3000 test | ≥ 0.6 | ≥ 0.6 |
| Skid Resistance | DIN 51097 | - | A+B+C |
| | DIN 51130 | | R11 |
| Resistance to freeze/thaw cycling * | C1026 | As reported | RESISTANT |
| Resistance to thermal shock | C484 | As reported | RESISTANT |
| Warpage (edge) | C485 | Warpage ± 0.4% or ± 0.05 in | COMPLY WITH ANSI A137.1 |
| Warpage (diagonal) | C485 | Warpage ± 0.4% or ± 0.07 in | COMPLY WITH ANSI A137.1 |
| Wedging | C502 | ± 0.25% or ± 0.03 in | COMPLY WITH ANSI A137.1 |
| Chemical resistance | C650 | As reported | UNAFFECTED |
| Resistance to stain | C1378 | As reported | UNAFFECTED |
| Thickness | C499 | Range: 0.04 in | COMPLY WITH ANSI A137.1 |
| Breaking strength | C648 | 250 lbf or greater | COMPLY WITH ANSI A137.1 |

* Average values referred to our production and related to the matt finish of the product.

** As far as values relating to the matt finish of the product and to tests carried out by certified external laboratories whose results are available upon request at Headoffice, we are willing to check the lot you are interested in purchasing.

- Be sure to use pavers belonging to the same caliber.
- Test results are available on request.
- The information provided can be subject to change. Please refer to outdoor.landmarkceramics.com for the latest, most accurate and up-to-date information.

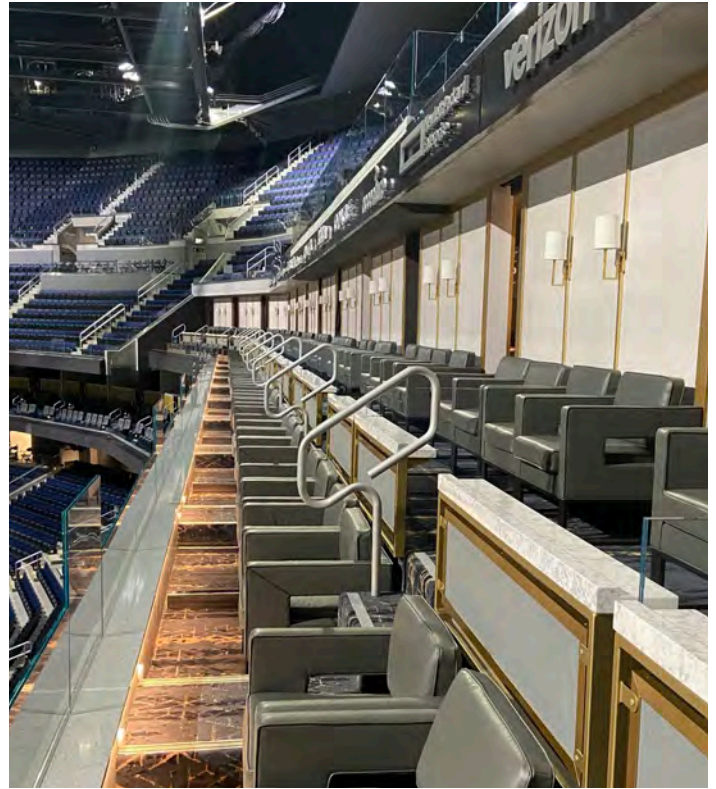
WARNINGS.

- Outdoor pavings installed unglued above the ground level are subject to the action of the wind, with the risk, in some cases, of becoming airborne. The manufacturer recommends to require the assistance of a qualified professional in order to check the suitability of the installation system above the ground adopted, in accordance with the local laws and regulations and the conditions of use. Failure to do so could result in serious injury or property damage.
- If the application of the 20 mm slabs requires the ceramic product used in structural installations, the project engineer and/or customer must carefully assess the project requirements with regard to the technical specifications of the slabs. To prevent the risk of damage or injury, the manufacturer recommends: with regard to a raised floor installation a ceramic slab may fracture on impact if a heavy object falls on it from any significant height. Therefore the manufacturer recommends to check the specific intended use before starting the installation and to follow table for raised installation provided below. In certain conditions, reinforcing must be applied on the back of the slabs (double fiberglass mesh) supplied and applied by the manufacturer; with reference to any dry installation system of flooring above the ground level, the manufacturer recommends to comply with local regulations and conditions of use with regard to wind-load, loadbearing, seismic events, etc. Failure to comply with these recommendations may lead to improper use of the product and could cause serious damage or injury. Failure to adhere to the manufacturer's instructions for installation of slabs on raised pedestal systems may result in serious injury.
- For further information and recommendations concerning the installation systems please refer to outdoor.landmarkceramics.com website.



Griprail™ pipe and tube railing system is designed and constructed using round pipe and tube providing a graspable handrail for stairs, ramps and crowd control applications. A variety of materials, finishes and colors are available to meet your project requirements.





Specifications

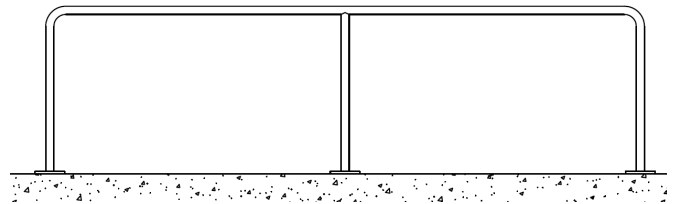
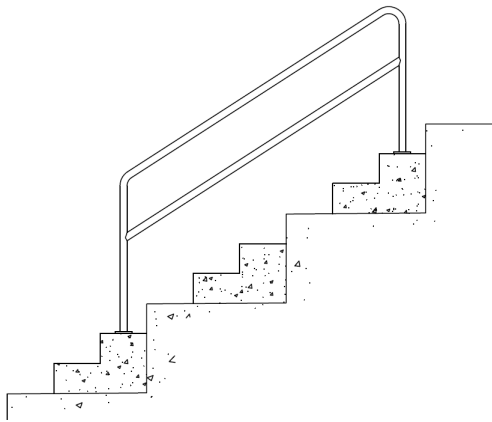
| | |
|---------------|--|
| Material: | Aluminum, Stainless Steel, Steel |
| Finishes: | Aluminum: Anodized/High Performance Coatings/Architectural Powder Coat Stainless Steel: Brushed/Polished Steel: Galvanized/High Performance Coatings/Architectural Powder Coat |
| Height: | 34" - 38" - A.F.F. |
| Post Spacing: | Variable (centered on steps) |
| Mount Type: | Top, Fascia, or Wall mount |
| Top Rail: | Round pipe (Typical) |
| Post: | Round pipe (matches top rail material) |
| Corners: | Bent/eased or mitered |

*Custom Options Available

Aisle Rail



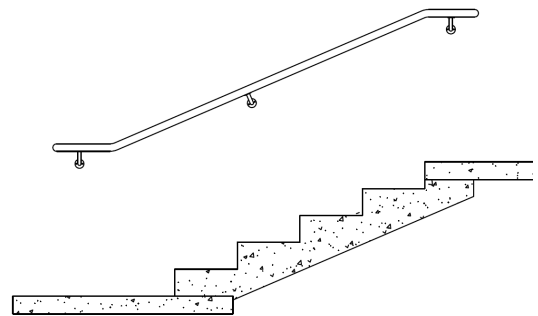
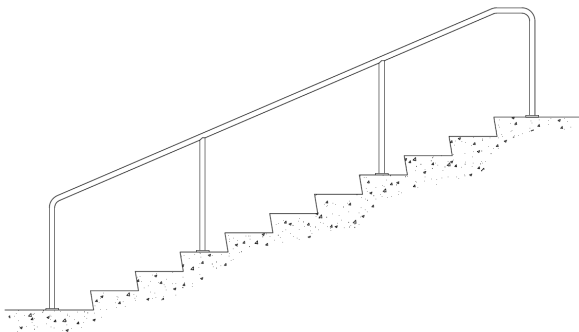
Courtesy Rail



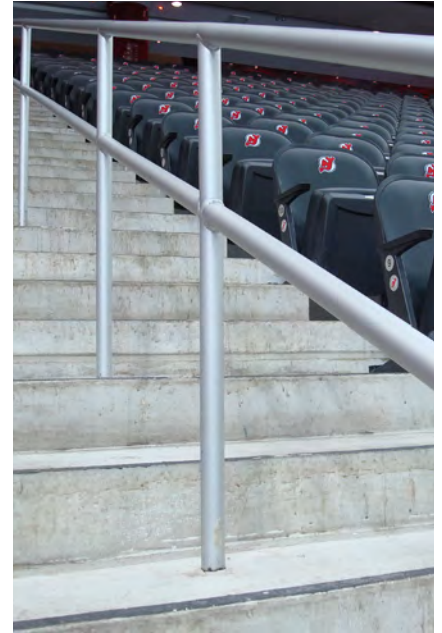
Center Handrail



Wall Handrail



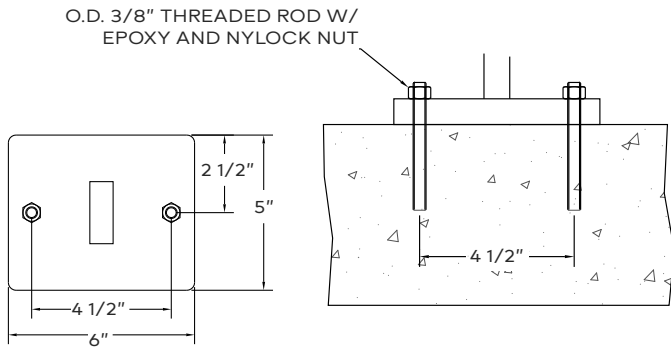
Top Mount



Fascia Mount

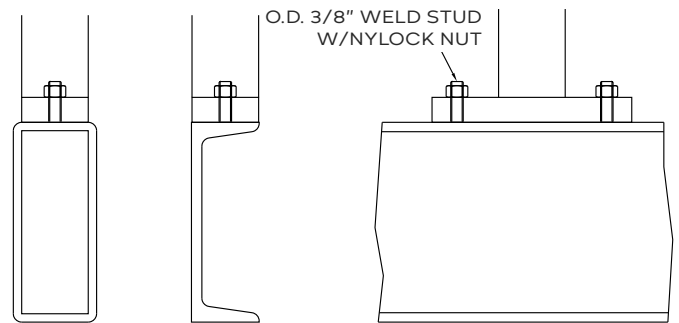


Pipe & Tube Handrail Top Mount Base Plate



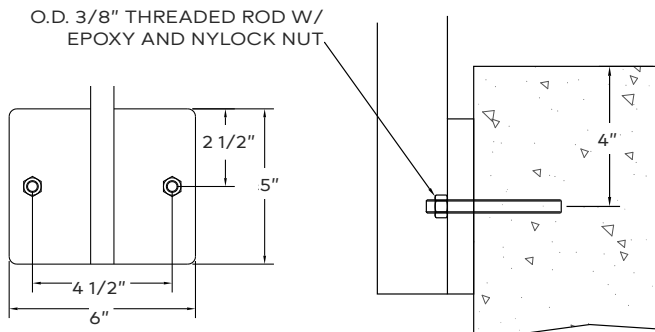
Dimensions dependent on geometry.

Stringer Mount



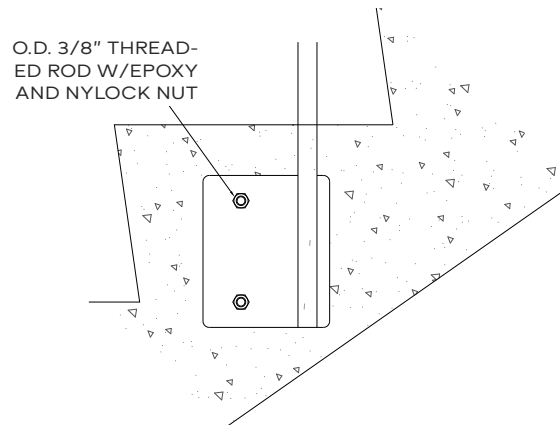
Dimensions dependent on geometry.

Fascia Mount Base Plate



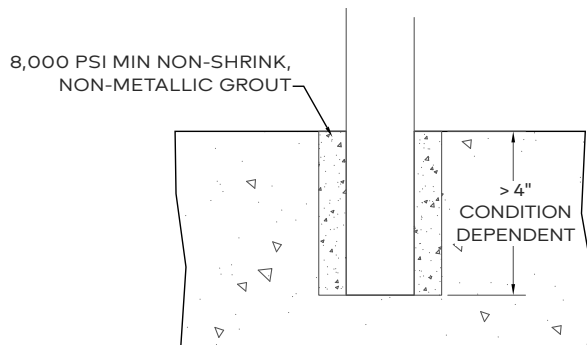
Dimensions dependent on geometry.

Fascia Mount Stair Base Plate



Dimensions dependent on geometry.

Core Mount



Notes:

Handrails can be mounted to concrete or steel.

Anchor size/Type may vary due to field conditions.



date _____
 customer _____
 project _____
 quantity _____

L4

- . Continuous light for paths and squares
- . Homogenous light without visible dots
- . Linear rigid body
- . Protection class IP67
- . Small dimensions
- . Easy serial connection

SLIM GROUND LINER



24V DC
remote driver box
ETL
LED
↓
CRI80
IP 67
IK 09
-22°F / +158°F
III
Dimmable
AL Housing
PMMA Cover

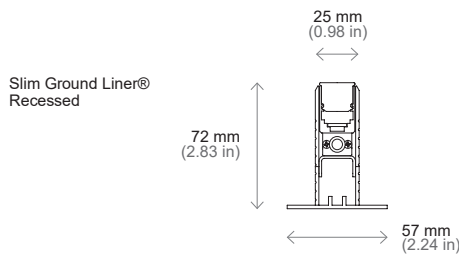
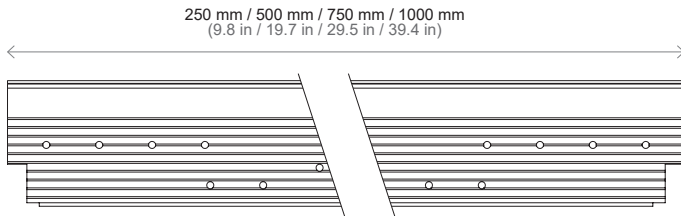
| Family | Model / Length | | Color temp | | Driver | Input voltage | | Run Length |
|------------|----------------|-------------|------------|-------|--------|---------------|----------------|--------------------------|
| SGL | | | | | | | | |
| | 7101211 | 39.4in 1000 | /80/2K8 | 2800K | N | NON-DIM | 24 24VDC input | *** advise on run length |
| | 7101212 | 29.5in 750 | /80/4K | 4000K | A | 0-10V | 120/227V | |
| | 7101213 | 19.7in 500 | /80/5K5 | 5500K | D | DMX | | |
| | 7101214 | *9.84in 250 | /11 | **RGB | | | | |



example...

| Family | Model / Length | | Color temp | | Driver | Input voltage |
|------------|----------------|-------------|------------|-------|----------|---------------|
| SGL | 7101211 | 39.4in 1000 | /80/2K8 | 2800K | A | 24 |

Notes: (*) only suitable for end of the run
 (**) only available for sizes 3 (19.7") & 1 (39.4")
 (***) max continuous run cannot exceed 96 watts



SLIM GROUND LINER

| Slim Ground Liner® 1000 | | | | | | | |
|-------------------------|-------------------|--------------|--------------|--------------|------------|-------------|------------|
| (with recessed box) | | | | | | | |
| Measures | 25 x 72 x 1000 mm | | | | | | |
| Weight | 2,1 kg | | | | | | |
| Color temperatures | 2800K | 4000K | 5500K | Amber | Red | Blue | RGB |
| Power | 11.6 W | 11.6 W | 11.6 W | 5.8 W | 5.8 W | 11.6 W | 22 W |
| Lumens output | 253 lm | 270 lm | 310 lm | 63 lm | 32 lm | 28 lm | 275 lm |
| N° LEDs | 120 LEDs | 120 LEDs | 120 LEDs | 120 LEDs | 120 LEDs | 120 LEDs | 90 LEDs |
| Luminaire efficiency | 32 lm/W | 34 lm/W | 39 lm/W | 11 lm/W | 6 lm/W | 4 lm/W | 13 lm/W |

| Slim Ground Liner® 750 | | | | | | | |
|------------------------|------------------|--------------|--------------|--------------|------------|-------------|--------------------------------|
| (with recessed box) | | | | | | | |
| Measures | 25 x 72 x 750 mm | | | | | | |
| Weight | 1,6 kg | | | | | | |
| Color temperatures | 2800K | 4000K | 5500K | Amber | Red | Blue | RGB |
| Power | 8.7 W | 8.7 W | 8.7 W | 4.4 W | 4.4 W | 8.7 W | Not available No disponible |
| N° LEDs | 90 LEDs | 90 LEDs | 90 LEDs | 90 LEDs | 90 LEDs | 90 LEDs | |
| Lumens output | 190 lm | 203 lm | 240 lm | 48 lm | 24 lm | 21 lm | |
| Luminaire efficiency | 32 lm/W | 34 lm/W | 39 lm/W | 11 lm/W | 5 lm/W | 4 lm/W | |

| Slim Ground Liner® 500 | | | | | | | |
|------------------------|------------------|--------------|--------------|--------------|------------|-------------|------------|
| (with recessed box) | | | | | | | |
| Measures | 25 x 72 x 500 mm | | | | | | |
| Weight | 1,1 kg | | | | | | |
| Color temperatures | 2800K | 4000K | 5500K | Amber | Red | Blue | RGB |
| Power | 5.8 W | 5.8 W | 5.8 W | 2.9 W | 2.9 W | 5.8 W | 11 W |
| N° LEDs | 60 LEDs | 60 LEDs | 60 LEDs | 60 LEDs | 60 LEDs | 60 LEDs | 45 LEDs |
| Lumens output | 125 lm | 131 lm | 153 lm | 32 lm | 16 lm | 14 lm | 134 lm |
| Luminaire efficiency | 31 lm/W | 33 lm/W | 39 lm/W | 11 lm/W | 6 lm/W | 4 lm/W | 12 lm/W |

| Slim Ground Liner® 250 | | | | | | | |
|------------------------|------------------|--------------|--------------|--------------|------------|-------------|--------------------------------|
| (with recessed box) | | | | | | | |
| Measures | 25 x 72 x 250 mm | | | | | | |
| Weight | 0,6 kg | | | | | | |
| Color temperatures | 2800K | 4000K | 5500K | Amber | Red | Blue | RGB |
| Power | 2.9 W | 2.9 W | 2.9 W | 1.5 W | 1.5 W | 2.9 W | Not available No disponible |
| N° LEDs | 30 LEDs | 30 LEDs | 30 LEDs | 30 LEDs | 30 LEDs | 30 LEDs | |
| Lumens output | 62 lm | 67 lm | 78 lm | 16 lm | 8 lm | 6 lm | |
| Luminaire efficiency | 31 lm/W | 34 lm/W | 39 lm/W | 11 lm/W | 6 lm/W | 4 lm/W | |