I. RECOMMENDED INSTALLATION METHODS

<table>
<thead>
<tr>
<th>INTERIOR INSTALLATION</th>
<th>EXTERIOR INSTALLATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>24&quot; x 24&quot; x 1&quot;</td>
<td>24&quot; x 24&quot; x 1&quot;</td>
</tr>
<tr>
<td>Surface</td>
<td>Surface</td>
</tr>
<tr>
<td>Quad Blok only</td>
<td>Quad Blok + Full Glue</td>
</tr>
<tr>
<td>Concrete</td>
<td>Concrete</td>
</tr>
<tr>
<td>□</td>
<td>N/A</td>
</tr>
<tr>
<td>Asphalt</td>
<td>Asphalt</td>
</tr>
<tr>
<td>□</td>
<td>N/A</td>
</tr>
<tr>
<td>Plywood</td>
<td>Compact Gravel</td>
</tr>
<tr>
<td>□</td>
<td>N/A</td>
</tr>
<tr>
<td>Compact Gravel</td>
<td>Wood</td>
</tr>
<tr>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Wood</td>
<td>Resilient Flooring</td>
</tr>
<tr>
<td>□</td>
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</tr>
<tr>
<td>Resilient Flooring</td>
<td>Carpet</td>
</tr>
<tr>
<td>□</td>
<td>N/A</td>
</tr>
<tr>
<td>Carpet</td>
<td>Roof tops</td>
</tr>
<tr>
<td>□</td>
<td>N/A</td>
</tr>
</tbody>
</table>

☑ = Approved  
N/A = NOT Approved

II. TOOLS / MATERIALS REQUIRED

1. Two tape measures - 25' and 50'
2. Chalk line - white only!
3. Saber saw (Jig saw) or band saw
4. Blades for saber saw (7-10 teeth per inch, wood type)
5. Utility knife with heavy-duty blades
6. Framing square/metal straightedge
7. Silver or gold color paint pencils
8. Standard size caulk gun
9. 4" slot blade screwdriver
10. Notched trowel - 1/8" square notch
11. Safety glasses
12. 1-1/2" flexible putty knife
13. Overalls
14. Kneepads
15. Solvent safe rubber gloves
16. Rags
17. Trash safe rubber gloves
18. Push broom or shop vac
19. Mineral spirits
20. Installation instructions
21. String line
22. Cutting table (shipping pallet)
23. Dustpan
24. 2-3 lb. sledge hammer or rubber mallet
25. 2’ x 4’ to use as tapping block
26. Adhesive

III. SITE WORK

NOTE: Dimensional tolerance for tiles is +/- 1/8" in thickness and +/- 1/8" in width. From time to time during installation, it may be necessary to measure and hand select tiles to ensure course lines remain straight. Additionally, color tone and shading may vary to the extent that some hand selection is required to maintain maximum uniformity throughout the site.

A. Site Elevation

1. On grade installation - The finished installed height of the UltraTile surface will be equal to or slightly higher than the perimeter grade but not more than 1" higher unless approved by the project engineer.
2. Above grade installation - The installation of UltraTile over existing decks or slabs is referred to as "above grade installation" and will usually require the use of reducers around the perimeters of the area to transition smoothly back to the floor elevation, unless the site terminates at a wall or other vertical surface.

B. Site Slope/Drainage
1. When preparing a new hard base, if applicable, a minimum slope equal to 1” per 10’ of run shall be applied to the finished surface with slope toward the drain basin and drain trough or down-grade side of the site.
2. An acceptable drainage system needs to be put in place to eliminate standing water.

IV. BASE OPTIONS

A. Hard Base Construction
1. Concrete Base:
   a. The base will be constructed of cast-in-place, non-structure, Class A or C concrete that will develop a minimum compressive strength of 3,000 PSI after 28 days cure (minimum thickness = 4”). Care should be taken to provide for the stated slope. The base should be free of depressions that would pond water. A light broom finish is best for maximum adhesion of the UltraTile tile. New concrete slabs should cure for a minimum of 28 days before installing UltraTile.
2. Paved Asphalt Base:
   a. Course aggregate mixtures will provide a stable base. The aggregate size best suited for the adhered system is 3/8” to 1/2”. Do not use asphalt mixtures that contain a high percentage of fines, as they are not stable in hot weather and may become soft enough to allow the tiles to slide in high use areas.
   b. The soil sub grade must be compacted with a minimum of two passes using a 10 ton vibratory roller with no soft or moving areas upon completion. The crushed stone base must also be compacted with a minimum of two passes using a 10 ton vibratory roller. The binder and wear courses of the asphalt must both meet 95% of the theoretical maximum density of the JMF (Job Mix Formula).

<table>
<thead>
<tr>
<th>Total Passing Sieve</th>
<th>Percent by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2”</td>
<td>100</td>
</tr>
<tr>
<td>3/8”</td>
<td>80-100</td>
</tr>
<tr>
<td>#4</td>
<td>45-90</td>
</tr>
<tr>
<td>#8</td>
<td>30-65</td>
</tr>
<tr>
<td>#50</td>
<td>5-25</td>
</tr>
<tr>
<td>#200</td>
<td>2-8</td>
</tr>
<tr>
<td>Asphalt Cement</td>
<td>6-8</td>
</tr>
</tbody>
</table>

c. New asphalt surfaces should be allowed to cure for 28 days before the adhered UltraTile system is laid.
I. GENERAL INFORMATION

A. 1" UltraTile may be installed over most concrete, wood, or tile. The floor over which 1" UltraTile is installed must be level, in good condition, and clear of dirt and loose debris.

B. For installations requiring adhesion to concrete, moisture must be measured using the RH Relative Humidity test method per ASTM F2170 standard. Moisture content should not exceed 85% RH. If levels exceed the limitations the installation should not proceed until the situation has been corrected.

C. In the event that a moisture mitigation system is required, it must conform to the ASTM F3010 Standard Practice for Two-Component Resin Based Membrane Forming Moisture Mitigation Systems for use Under Resilient Floor Coverings.

D. It is essential that pH tests be taken on all concrete floors. If the pH is greater than 9, it must be neutralized prior to beginning the installation.

E. Installation should not begin until after all other trades are finished in the area.

F. Areas to receive flooring should be weather tight and maintained at a minimum uniform temperature of 65°F for 48 hours before, during, and after the installation.

G. Unpack tiles and allow them to sit in the area to be installed. Tiles and adhesive must be acclimated at a uniform room temperature for a minimum of 48 hours prior to installation.

NOTE: Dimensional tolerance for tiles is +/- 1/8" in thickness and +/- 1/8" in width. From time to time during installation, it may be necessary to measure and hand select tiles to ensure that course lines remain straight. Additionally, color-tone and shading may vary to the extent that some hand selection is required to maintain maximum uniformity throughout the site.

As with any flooring product, dry laying and full inspection of all tiles will allow for a quality installation. Tiles should be inspected from several angles and adjusted as necessary.

II. SITE LAYOUT

H. Sweep area clear of all dust and loose debris.

I. Determine a starting point for the first course of tile to best suit the site area. For irregular site configurations, the best starting point is often in the center. This will ensure a symmetrical finish for tiles that require trimming along the perimeter. Other installations are best started in the corner or along one edge that represents the length or width dimension of the site.

J. It is important to start the installation from a perfectly straight edge, such as a wall, or timber that is secured to the substrate. This will allow you to keep the tiles straight and snug during the installation process.

K. Mark two points on the base surface at an equal distance from the edge of the installation. These points should be located near the opposite ends of the site in the length-wise direction.

L. Snap a chalk line through the established points.

M. Measure the length of the site along the chalk line. Mark a point at half the distance of the site.

N. Using the 3-4-5 right triangle method, snap a chalk line to form a 90° angle to the previously established length-wise chalk line. These perpendicular reference lines will serve as a guide for laying the first course of tile. A channel or timber may be secured to the substrate to help keep the tiles snug during the installation process.
NOTE: Everlast UltraTile is manufactured from recycled materials and slight variance in shade and color chip dispersion is normal. It is the installer’s responsibility to inspect all products to insure the correct style, thickness, and color. Any moderate to severe discrepancies should be reported immediately before beginning the installation.

III. QUAD BLOK INSTALLATION (Required)

A. Follow the Site Layout instructions to prepare the area for the installation of the 1” tiles.
B. Once chalk lines are established, place the first tile at the intersection of two chalk lines, aligning adjacent edges of the tile with the chalk lines.
C. Apply a continuous 1/4” diameter bead of E-Grip III adhesive around the perimeter of the Quad Blok connectors. Working adhesive time is dependent upon environmental conditions. See NO GLUE zones in Connector Detail drawing below.
D. Fit the first tile with four prepared Quad Blok connectors by lifting each tile corner slightly, sliding the connectors under each corner and engaging the four corner legs of each tile with the respective apertures in the Quad Blok. Continue to sequentially lay the tile and to set the Quad Blok connectors along one chalk line until the first course of tile is complete.

NOTE: Cut the Quad Blok connectors in half to secure perimeter tiles

E. Complete the other three quadrants in a similar fashion.
F. Depending on manpower availability, one or more quadrants can be worked on simultaneously using the above method.
G. Allow 24 hours for adhesive to cure before opening area for foot traffic, and 72 hours prior to placing equipment.
H. One 10.1 ounce tube of E-Grip III is required for approx. 15 of the Quad Bloks.

Note: Adhesive spills must be removed while still wet. Use a dry rag to pick up the majority of the adhesive. Wipe the remaining residue with a rag dampened with mineral spirits. Cured adhesive can only be removed from surfaces by mechanical means, such as scraping or sanding.
IV. FITTING THE OUTER COURSE TILE

A. In most wall-to-wall installations, the tile in the outer course will have to be cut to fit. Tile may be cut using a heavy-duty utility or carpet knife and a straight edge. A saber saw utilizing a 7-10 TPI wood cutting blade also works well. A saw with a 3-3.5 amp rated motor having a 1" stroke with variable orbital settings will produce the best results. A cutting table used to support the work is required during cutting. A standard shipping pallet works well for this purpose for in-field use.

B. If 1” UltraTile is being installed wall-to-wall, the tiles MUST be held together with Quad Bloks, with the walls serving to contain the outer rows of tile. Tiles that are not contained by walls, either at openings in the wall (i.e. doorways) or freestanding, should be contained by adhering the outer tiles and 1” UltraTile ramps around the outer perimeter. The adhered ramps provide a transition from the 1” thick tile to the original floor level. The perimeter tiles and ramps must be adhered using Ecore’s E-Grip™ adhesive with a 1/8” square-notched trowel indoors over substrate.

V. CUTTING 1” TILE AND RAMPS

A. Avoid leaving a cut edge of a tile exposed to eyesight. To guarantee a finished appearance, any tile that has its factory molded, radius edge removed for any reason should be backed along that edge using a 1” masonry or timber edging, unless that edge is to be placed against a wall or other vertical member.

B. The most accurate cuts in tiles are made using a heavy-duty utility or carpet knife and a straight edge. A saber saw utilizing a 7-10 TPI wood cutting blade also does an acceptable job, especially for radius or free-form cuts. A saw with a 3-3.5 amp rated motor having a 1” stroke with variable orbital setting will produce the best results. A cutting table used to support the work is required during cutting. A standard shipping pallet works well for infield use.

VI. PREPARATION FOR INSTALLATION OF ADA RAMPS

A. Make sure that the subfloor is flat, clean, dry and free of contaminants such as waxes, finishes, sealers, or other extraneous materials that would prevent a good adhesive bond.

B. Unpack the materials and allow them to sit in the area to be installed. Materials and adhesive must be acclimated at a uniform room temperature for a minimum of 48 hours prior to installation.

Note: The toe edge of the ramp contains a wire reinforcement material. Take care not to bend the edges as it will be difficult to get ramps with bent reinforcement to lay flat.

C. When the UltraTile installation is complete clean and prepare the remaining area for full adhesion of the ramps.

VII. ADHERING THE OUTER COURSE AND RAMPS (ADA RAMP INSTRUCTIONS ON PAGE 8)

A. If required, ramps can be cut in the same manner as tiles. If ramps are used at a corner, each ramp should be miter cut at a 45 degree angle.

B. After ramps have been properly cut, ramps and outer tile, which are not contained by walls, should be adhered to the existing floor using E-Grip III adhesive with a 1/8” square notched trowel indoors over substrate. Set tiles and ramps in the adhesive bed. Tiles being set in the adhesive bed should be connected to the next inner course of tiles, but need not be connected to each other.

C. Once tiles are laid into the wet adhesive, roll the floor with a 75-100 pound flooring roller. Adhesive should be allowed to cure for 24 hours before walking on the tile.
VIII. INSTALLATION – ADA RAMP

A. Sweep area clear and vacuum up all dust.
B. Dry lay ramps and make appropriate cuts before opening the adhesive.
C. To cut the ramps, use a band saw or a saber saw with 7-10 TPI wood cutting blade.
D. Mark the areas where adhesive is to be applied and temporarily remove the ramps.
E. Spread the recommended E-Grip III urethane adhesive using a 1/8” square notch trowel. Do not spread more adhesive than can be covered in 30 minutes.
F. Carefully place the ramps into the adhesive. Be sure to press down firmly to assure proper adhesive transfer to the back side of the ramp or roll with a 75-100 pound three sectional flooring roller.
G. Use weight to evenly hold down the toe edge of the ramps. The entire toe edge should be weighted, and the weight should be heavy enough to prevent the edge of the ramps from lifting out of the adhesive.

Note: Adhesive spills must be removed while still wet. Use a dry rag to pick up the majority of the adhesive. Wipe the remaining residue with a rag dampened with mineral spirits, followed by a rag dampened with water. Cured adhesive can only be removed from surfaces by mechanical means, such as scraping or sanding.

H. After 24 hours, remove the weight from the ramps.
I. Clean and maintain the area in accordance with the instructions in the Maintenance Section below.
FULL GLUE DOWN INSTALLATION

I. FULLY ADHERED INSTALLATION

A. Follow the site layout instructions to prepare the site area for installation. The tiles, accessories, and substrates must be acclimated and dry 24 hours before, during and after the application of adhesive.

NOTE: Dimensional tolerance for tiles is +/- 1/8” in thickness and +/- 1/8” in width. From time to time during installation, it may be necessary to measure and hand select tiles to ensure that course lines remain straight. Additionally, color tone and shading may vary to the extent that some hand selection is required to maintain maximum uniformity throughout the site.

As with any flooring product, dry laying and full inspection of all tiles will allow for a quality installation. Tiles should be inspected from several angles and adjust as necessary.

NOTE: Everlast’s UltraTile is manufactured from recycled materials and slight variance in shade and color chip dispersion is normal. It is the installer’s responsibility to inspect all products to insure the correct style, thickness, and color. Any moderate to severe discrepancies should be reported immediately before beginning the installation.

NOTE: Coverage rates for the E-Grip III adhesive are approximately 60 square foot per gallon using a 1/8” square notch trowel. E-Grip III is available in 2 and 4-gallon pails.

B. Moisture must be measured using the RH Relative Humidity test method per ASTM F2170 standard. Moisture content should not exceed 85% RH. If the levels exceed the limitations, the installation should not proceed until the situation has been corrected.

C. In the event that a moisture mitigation system is required, it must conform to the ASTM F3010 Standard Practice for Two-Component Resin Based Membrane Forming Moisture Mitigation Systems for use Under Resilient Floor Coverings.

D. It is essential that pH tests be taken on all concrete floors. If the pH is greater than 9, it must be neutralized prior to beginning the installation.

E. Using the appropriate trowel, apply the E-Grip III adhesive out slightly wider than the tile being placed. Do not spread more adhesive than can be covered in 30 minutes.

F. **Quad Bloks must be used;** see Quad Blok installation section above.

G. Place tiles with Quad Bloks into the fresh adhesive bed following pre-established course lines. If applicable, place ramps into the fresh adhesive in a similar manner.

H. After placing tiles into adhesive bed, roll the tiles with a 75 pound three section flooring roller to ensure adhesive transfer to the back of the tile feet.

I. Adhesive should be allowed to cure for 24 hours before allowing foot traffic. All heavy traffic and/or light rolling loads should be avoided for a minimum of 72 hours after installation to allow adhesive to develop strength. In cases where 72 hours is not possible, it is recommended to cover the floor with a rigid covering such as ½” plywood sheeting with a fully sanded face against the surface of the tiles.

J. Tile cuts are typically laid out by referencing dimensions from the edges of the tiles, already in position, to a wall or other obstruction along or around which the tiles are to fit. These dimensions are then transferred to and laid out on the tile to be cut.

K. Ramps installed at corners should be miter cut to allow ramps to fit together properly.
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ecore

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