RestoreHDP Story

RestoreHDP is the first product line from Florida Tile in a revolutionary new porcelain tile concept. These thin porcelain wood plank tiles are made with the newest manufacturing techniques in the world. Using the finest raw materials in combination with an incredible pressing process, we are able to create a true porcelain tile that is only 5.5mm thick. Thin and incredibly durable, this new product category opens up an enormous possibility of installation options, only some of which we have explored. These 5.5mm porcelain tiles have been Robinson tested at the Tile Council of America labs, receiving an “extra heavy” duty service rating. They are ideal for commercial floor, wall and exterior applications as well as all residential floor, wall, countertop, stairs, and the list goes on.

Aesthetically, RestoreHDP utilizes the most technically advanced glazing system in the industry today, digital printing. Like the technology that changed the television industry, HDP—High Definition Porcelain® brings you the most realistic image possible, except it is on a tile. Restore takes on the look of antique barn planks, one of the most rustic and dramatic reclaimed looking porcelain tile floors available. This rustic wide plank porcelain tile flooring is duplicated from 150-200 year old rustic barn woods. The RestoreHDP planks are worn with character from farmers of generations ago. This incredible realistic looking tile has the worn wood flooring feel with dents and dings and evidence of hard work from days gone by. Yet, the ease of maintenance that only innovative high quality porcelain tile can provide.
Why Restore\textsuperscript{HDP} instead of real wood, for your project?

- Maintenance free
- Waterproof
- Easier to clean
- Stain resistant
- UV fade resistant
- Dent and scratch resistant
- No sealers, stains and additional chemicals
THE ADVANTAGES OF BEING UNIQUE:

Application Benefits

• Ease of installation; thin and lightweight, easy to cut and drill
• Ideal for installations over properly prepared existing tile, avoiding the demolition and waste disposal
• Thin profile reduces the need to cut doors and less ramping to other finish materials
• Innovative applications can be curved surfaces, interior design applications, furniture and accents
• This unique production process of Florida Tile’s THINNER, allows us to produce perfectly flat tile panels
• Rectified edges; all edges have been mechanically finished for a more exact dimension

Technical Benefits

• Florida Tile’s THINNER is fully vitreous porcelain making it non-absorbent, easy to clean, freeze thaw stable, resistant to acids, stains and pollution
• Thin porcelain plus boasts excellent values for resistance to bending and breaking strength
• Proven; thin large format tile has been used successfully around the world for residential and commercial applications for over 10 years
• Increased flexibility allows for installations on some curved structures

Environmental Benefits

• Strong decrease in raw materials, water and energy consumption, as well as pollution
• Reduced CO² exhausts during firing, up to 20x less than standard tile and 50% less natural gas used compared to traditional tile production
• Transportation uses less fuel because you can fit more tile in a smaller space
• Incredibly light for size weight ratio for 3.5mm = 1.6 lbs. per SQFT, for 5.5mm = 2.3 lbs. per SQFT, compared to a typical 10mm – 11mm porcelain tile, weighing 5 – 6 lbs. per SQFT
Antiqued Fence

34093 8x39
Antiqued Fence

34093 8x59
Antiqued Fence
### Colors

<table>
<thead>
<tr>
<th>Item #</th>
<th>Color Name</th>
<th>Nominal Size (inches)</th>
<th>Metric (cm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>34003</td>
<td>Cotton Mill</td>
<td>8 x 39</td>
<td>20 x 100</td>
</tr>
<tr>
<td>34015</td>
<td>Tobacco Barn</td>
<td>8 x 39</td>
<td>20 x 100</td>
</tr>
<tr>
<td>34018</td>
<td>Weathered Dock</td>
<td>8 x 39</td>
<td>20 x 100</td>
</tr>
<tr>
<td>34093</td>
<td>Antiqued Fence</td>
<td>8 x 39</td>
<td>20 x 100</td>
</tr>
</tbody>
</table>

### Sizes

<table>
<thead>
<tr>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>8&quot; x 39&quot;</td>
</tr>
<tr>
<td>8&quot; x 59&quot;</td>
</tr>
</tbody>
</table>

Color Variations: Color reproductions in this printed piece may vary from actual tile colors. Final selection should be made from actual tile samples.
### Properties

<table>
<thead>
<tr>
<th>Properties</th>
<th>Results¹</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exterior Rated²</td>
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</tr>
<tr>
<td>DCOF AcuTest³</td>
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</tr>
<tr>
<td>Thickness</td>
<td>5.5mm</td>
</tr>
<tr>
<td>Glaze Hardness</td>
<td>7 mohs</td>
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<tr>
<td>Breaking Strength⁴</td>
<td>&gt;=250 lbf</td>
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<tr>
<td>Water Absorption⁵</td>
<td>&lt;=0.1%</td>
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<tr>
<td>Durability Classification⁶</td>
<td>V Heavy Commercial</td>
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<tr>
<td>Deep Abrasion</td>
<td>P1</td>
</tr>
<tr>
<td>Shade Variation</td>
<td>V3</td>
</tr>
</tbody>
</table>

¹These values vary lot to lot.
²When used as recommended in the THINNER Technical Manual. For more information go to www.floridatile.com/thinner.
³ANSI 137.1 Standard, ceramic tiles selected for level interior spaces expected to be walked upon when wet must have a minimum wet DCOF AcuTest value of 0.42.
⁴Average value referred to all-in-one piece (tile and fiberglass mesh).
⁵Average value referred to ceramic material only.
⁶Class I Light Traffic Areas, Class II Medium Light Traffic Areas, Class III Medium Traffic Areas, Class IV Heavy Traffic Areas, Class IV + Heavy Traffic Areas (high resistance to scratches and stains).

### Shade Variation

**V3**

**Moderate Variation**

While the colors present on a single piece of tile will be indicative of the colors to be expected on the other tiles, the amount of colors on each piece may vary significantly. For example “that little bit of color” on one piece of tile may be the primary color on the next piece.

### Applications

Restore Splus is suitable for interior and exterior, wall and floor applications in residential and commercial construction. More detailed areas of use charts are available in the THINNER Technical Manual.

This Florida Tile product will contribute to USGBC registered LEED projects. It will also contribute to the ANSI approved NAHB Green Building Standard ICC 70.
Patterns

These are common patterns for RestoreHDP®. Many additional patterns can be created by a skilled installer. When incorporating the two different sizes of RestoreHDP® planking into an installation, it increases the depth of available patterns even more. Florida Tile RestoreHDP® planking may be installed with either a 33% or 50% offset.

Soldier Stack

Running Bond

Diagonal Running Bond

Herringbone
It is important that previous to installation of any Thinner product, you must consult and review the entire
THINNER Technical Manual. The below set of installation guidelines are not complete and are only provided for
a brief review of the steps necessary to install the THINNER products. Additional information on tools, cutting,
drilling, handling, mortar selection, installation, etc. is available in the THINNER Technical Manual, available at
www.floridatile.com/thinner or your THINNER Distributor.

Handling

For installation, most of the smaller sizes can be handled with a minimum
of two quality suction cups or by hand. The 1m x 3m (39” x 118”) tiles of
THINNER can be lifted from the container by one person. Lift the slab with
open hands. Slowly raise the longer side so as to eliminate the suction effect,
due to contact with the underlying slab, and ensure a good grip. When the
slab is upright, carry holding it from its top edge, keeping it straight and
upright. Carrying should be performed with a second person. The THINNER
tile panels of 1m x 3m size, are best handled by two persons, using a special
frame with mounted suction cups. Fasten the frame to the finished side of
the tile panel. Now raise the frame and slab to eliminate the suction effect.

Installation

Substrate preparation: substrate preparation should be completed following ANSI A108 AN-2 “General Requirements
for Sub-surfaces”. All substrates should be plumb and true, surface deviation should not exceed 1/8” in 10’.

Setting materials: define the characteristics of the substrate on which the thin tile panels will be installed. Choose a
mortar and grout that is suitable for the substrate and intended use of the project. In most installations a premium
quality ANSI 118.4 mortar will be used. Consult the THINNER Technical Manual and check with the setting material
supplier.

Installation: previous to handling, cutting, or installing the THINNER products, it is important to have on your safety
equipment (Typical PPE: Sure grip gloves, Safety glasses, Dust mask). Movement (Expansion) joints should be provided
to comply with TCA method EJ 171. Installation must comply with the current version of ANSI A108.02, A108.1B and
ANSI A 108.5.

Mix the mortar to the highest mix consistency according to the mortar manufacturer’s current data sheet. Apply
mortar to the substrate with the flat side of the trowel, with enough pressure to firmly work into the surface. With a
proper notched trowel, immediately follow with a heavier coat of material using the appropriate trowel and enough
mortar to provide 100% coverage to the back of the tile and substrate. Notches should run parallel to each other and
perpendicular to the long side of the tile. Use caution that the mortar does not skim over. It is advised that during the
installation, remove a tile to insure the mortar has not skinned over and check the tile and substrate mortar coverage.
Place tiles in mortar, slide back and forth perpendicular to the ridges. Coverage of mortar is essential to a successful
installation of the THINNER tile. Special attention to ensure 100% coverage of edges and corners is necessary. After
laying the tile, make sure it is firmly adhering to the underlying surface. For walls, you can use a rubber coated
trowels or a hard grout float. For floors, tile tapping tools with plastic plates or orbital sanders should be used to
increase the coverage of the mortar. Keep the tile and grout joints clean. Consult with the mortar manufacturer for
set times of the tile and thinset mortar before grouting.