An architectural project requires the highest level of performance from the paver manufacturer involved. In order to guarantee the integrity of the design from start to finish, the producer needs to have a long standing reputation of product consistency, performance and service. Hanover® Architectural Products continually strives to provide the highest quality concrete pavers in the industry.

For over 40 years, Hanover® has participated in the development of pavers, as they became an integral part of architectural design. Custom color and aggregate blending has become Hanover’s trademark, as well as, the ability to adapt to the special paver needs of each individual project. Hanover® manufactures pavers for various types of applications ranging from on-grade entranceways to rooftop plazas and pool decks. Hanover® Prest® Pavers are the perfect addition to any architectural project.
Hanover’s Architectural Prest® Pavers are the perfect alternative to natural stone. High compressive strength and density give the product durability and low water absorption comparable to stone.

Hanover® Architectural Products offers a large selection of dimensionally compatible sizes as well as a range of other custom sizes. Hanover® will strive to provide any size paver required by the project’s design specifications. A wide range of colors and textures is also available. With almost limitless design options, Hanover® Prest® Pavers are the superior choice for any project from corporate entranceways to pedestrian plaza areas.
SECTION 1: PREST® PAVERS ON-GRADE

6 Prest® Pavers for On-Grade Applications
10 SlateFace® Pavers
12 PlankStone® Pavers
13 Detectable Warning® Pavers
16 Multisided Paver Systems
17 Custom Cutting & Inlay Services
18 Custom Engraving Service
19 Profile Edge Cutting Service
20 Water Jet Cutting Service
22 Architectural Cast Stone
Natural stone, particularly granite, has long been considered the first choice for buildings and walkways. Hanover’s Architectural Concrete Paver line has the characteristics and the performance of natural stone, but can offer the project an economical alternative. High compressive strength and density give the product durability and low water absorption comparable to stone. Using extreme hydraulic pressure, Hanover® bonds crushed limestone and granite together, duplicating the forces of nature and producing a naturally beautiful Reconstructed Stone™ Paver.

Hanover® can provide complete flexibility for color selection. Custom color and aggregate blends have become our trademark creating endless specification opportunities.

Hanover® Prest® Pavers are manufactured with a standard 3/16” bevel or with a square edge option upon request. A wide range of standard sizes are available from a nominal 12” x 12” to a nominal 24” x 48”. Custom sizes give even more flexibility to the designer, making the selection of the paving pattern almost limitless.
Hanover® is known for its ability and willingness to adapt to requirements of the individual design. Hanover® representatives will listen to your project ideas and explain all possibilities. With over forty years of paver manufacturing experience, Hanover® stands ready to assist you on your next project.

**PLEASE NOTE:** Caution needs to be exercised when utilizing various sized pavers to ensure compatibility in dimensions.

Prest® Pavers larger than the nominal 12" x 12" are recommended for pedestrian use only. The 12" x 12" with a 3" thickness can accommodate light vehicular use.
INTERIOR PAVERS

Although Hanover® Prest® Pavers are used predominantly for exterior applications, they can be used for interior applications when a rustic finish is acceptable.
Above and Left Photos: Lowe’s Corporate Headquarters, Mooresville, NC; Architect: LS3P Associates Ltd, Charlotte, NC; Landscape Architect: HGOR, Atlanta, GA; Size & Color: Various sizes, #M1561, #M1764, #M2240, B91561, B92240; Finish: Tudor®, Heavy Tudor®

Prest® Pavers On-Grade | PREST® PAVERS FOR ON-GRADE APPLICATIONS

CHESAPEAKE COLLECTION
Hanover® Prest® Pavers have been infused with clam shells adding to the recycled content. Contact Hanover® for details.

ARCHITECTURAL CAST STONE
Hanover® can provide Architectural Cast Stone, shown above, to compliment Hanover® Pavers. See page 22 for more information.

Left Photo: Museum, Chantilly, VA; Architect: HOK; Size & Color: 11 3/4” x 23 1/2”, #M2202, Charcoal; Finish: Tudor®

Corporate Campus, Houston, TX; Architect: HOK; Landscape Architect: Clark Condon; Size & Color: 23 7/8” x 23 7/8” x 2”; Chesapeake Collection #M3437; Finish: Ground Tudor®
Continuing its focus on natural textures, Hanover® can provide a SlateFace® Paver as part of the Prest® Paver line. This paver has been designed to reproduce the texture, color and appearance of natural slate. Its irregular top surface was developed from actual sections of stone. Although custom colors can be produced, the pavers are stocked in Hanover’s own BlueStone and Tennessee Flagstone colors. By rotating the direction of the pavers during installation the natural effect is complete.

SlateFace® Pavers are available in several sizes ranging from a nominal 12” x 12” to a nominal 24” x 36”. SlateFace® Pavers are stocked in a 1 3/4” thickness.

**PLEASE NOTE:** Hanover’s blended colors consist of several shades and will include some solid and some blended pieces.
### SLATEFACE® PREST® PAVER SIZES

<table>
<thead>
<tr>
<th>Size</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>11(\frac{3}{4})'' x 11(\frac{3}{4})''</td>
<td>17(\frac{5}{8})'' x 23(\frac{1}{2})''</td>
</tr>
<tr>
<td>11(\frac{3}{4})'' x 17(\frac{3}{8})''</td>
<td>23(\frac{1}{2})'' x 23(\frac{1}{2})''</td>
</tr>
<tr>
<td>11(\frac{3}{4})'' x 23(\frac{1}{2})''</td>
<td>23(\frac{1}{2})'' x 35(\frac{3}{8})''</td>
</tr>
<tr>
<td>17(\frac{5}{8})'' x 17(\frac{3}{8})''</td>
<td></td>
</tr>
</tbody>
</table>

Custom sizes are available upon request when quantities permit.

Due to the irregular surface and square edges of the SlateFace® Paver, paver to paver surface will not always be flush. Height variance is typical and should be expected.
Inspired by long and narrow hardwood floor planks, Hanover’s PlankStone Pavers are available in three nominal sizes - 6” x 18”, 6” x 24” and 6” x 36” with thicknesses ranging from 2” - 4”. Manufactured with a standard 3/16” bevel, PlankStone® Pavers are available in a wide range of custom colors and finishes. A square edge or 1/16” bevel are available upon request. Hidden spacers allow for sand joint interlock. PlankStone® Pavers are suggested for pedestrian use only.

These narrow elongated pavers create a sleek paving appearance.

Pavers can be laid horizontally, vertically or in alternating directions to achieve many designs ranging from a Basketweave pattern to a Herringbone pattern. Different lengths can be installed individually or combined to create endless design options. PlankStone® Pavers can also be combined with other Hanover® Prest® Pavers or Prest® Bricks with the same thickness.
In response to the American Disabilities Act, Hanover® has been working with various government agencies and municipalities to design and provide a paver which would aid the partially sighted and blind pedestrian. The top surface has non-slip properties and raised truncated domes. These are readily detectable under foot, as well as by cane.

Persons with visual impairments depend upon environmental cues of potential hazards — ambient sounds and physical elements that can be sensed by a cane or texture changes underfoot. Any pedestrian area requiring the use of a detectable warning surface can utilize the Detectable Warning® Paver. The distinctively textured walking surface can help to warn pedestrians of an impending hazard on the route ahead.

**UNIT SIZES**

<table>
<thead>
<tr>
<th>Size Description</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>11 3/4&quot; x 11 3/4&quot; x 2&quot;</td>
<td>(297mm x 297mm x 51mm)</td>
</tr>
<tr>
<td>23 1/2&quot; x 23 1/2&quot; x 2&quot;</td>
<td>(597mm x 597mm x 51mm)</td>
</tr>
</tbody>
</table>

**STOCKED COLORS**

- Red 15
- Yellow (11 3/4" x 11 3/4" only)
- Charcoal

Custom sizes and colors are available upon request when quantities permit.
Manufactured in accordance with the requirements set forth in the 2010 American Disabilities Act (ADA) Standard, Hanover’s Detectable Warning® Paver is fabricated with a non-slip texture applied to the surface of the paver. Projects will benefit from its ability to withstand snow removal and freeze thaw conditions. Typical installations include railway platforms, handicap ramps and curb and grade changes.

Detectable Warning® Pavers are stocked in two sizes and three colors. Other colors and Tudor® finish are available on special request when quantities permit.

**PLEASE NOTE:** The standard thickness of the paver does not include the height of the dome. A paver which is ordered at a 2” thickness will actually measure 2.20” from the bottom of the paver to the top of the dome.

**PLEASE NOTE:** Tudor® finish is available on special order when quantities permit.

**HANOVER® MEETS ADA ALIGNED DOME FORMAT REQUIREMENTS.**
Hanover® can provide different styles of custom Detectable Warning® Pavers upon request when quantities permit. Be sure to check local guidelines for ADA compliance.
TWO PIECE OCTAGONAL PAVER SYSTEM

Hanover® manufactures a two piece system using an octagon paver (15 7/8" across flats) and a square paver (6 9/16"). When laid together, these two shapes create a variety of paving effects. The two pieces can be manufactured in the same or different colors. Textures can also be varied. By changing the color and texture combinations, the designer has limitless paving possibilities.

HEXAGONAL PREST® PAVER

Hanover’s Hexagonal Prest® Pavers are manufactured in two sizes, 15 7/8" and 23 1/2" across flats, to accommodate large or small scale projects. This shape gives the opportunity to create special interest in a specific area or across the entire project.

HEXAGONAL PAVER

15 7/8" or 23 1/2"

OCTAGONAL PAVER

Two Piece Octagonal System
15 7/8” Octagon, 6 9/16” Square

Middle and Right Photos: 75 Henry Street Plaza, Brooklyn, NY. Architect: Lawless & Mangione Architects, Yonkers, NY. Size & Color: Octagonal 15 7/8” Limestone Grey, with square 6 9/16” x 6 9/16” x 2”. Charcoal finish: #13
CUSTOM CUTTING SERVICE

Projects sometimes have the need for a special effect or artistic design, requiring a unique shape. Corporate logos, pavement designs and special shapes can accent a walkway or an entrance or create a central focal point. Over the years we have responded to various design requests and gained valuable experience, producing many interesting projects.

Hanover® has the capability to translate these design requirements into our unit pavers with custom cutting services.

Modern computerized saws will cut to close tolerances according to your shop drawings. Custom colors within the pavers can further enhance the design. Contact Hanover® to discuss your next project.

CUSTOM INLAY SERVICE

While working closely with project designers, Hanover® Architectural Products will develop and produce intricate two-dimensional “sculptures” by placing beautiful metal inlays within concrete Prest® Pavers. When produced and installed in the designed pattern, individual pavers become a sculptured floorscape. Please contact Hanover’s technical staff to discuss your next project.
Hanover® Prest® Pavers, along with Prest® Bricks and other Hanover® products, provide the perfect background for engraving. Almost any design can be adapted to the process, and some ink colors can be accommodated. The engraving services are perfect for corporate logos, appreciation or memorial panels, and fund raising projects. Storefront entrances can be enhanced with the product name, services provided or even directional symbols to help a visitor find their way. The possibilities are endless. Choose from any of the paver sizes or standard colors offered. Custom paver colors and various textures are available on special order and when quantities permit.
To incorporate the same color and texture of the pavers with coping or edging, Hanover® offers a profiled cutting service, making precision cuts to your specification. Pool deck areas particularly benefit, as the paver and the pool coping can be of the same paver material. Custom profiles can also be accommodated.

For more information, please request Hanover’s Profile and Custom Cutting Detail.
Hanover® Architectural Products is proud to add Water Jet Cutting to the line of profile and custom cutting services of Hanover® products. Through the use of an abrasive Water Jet, Hanover® can cut pavers into more intricate shapes and designs. Controlled by exact CAD programmable settings, more distinctive patterns for logos, maps, entryways, murals, and special paving designs can be accommodated.

With the exactness that comes from the pinpoint cutting and precise CAD computer controls, Hanover’s abrasive Water Jet Cutting decidedly increases the accuracy over other more traditional methods of sawing. Arcs, circles, and inside and outside radii are all cut with the same precision.

Intricate patterns can be duplicated distinctly, guided by the CAD programming. Multiple colored designs can
WATER JET CUTTING ALLOWS HANOVER® TO PROVIDE A MORE INTRICATE CUTTING SERVICE.

also be accommodated. Please contact Hanover® to discuss your project designs. Hanover® would be pleased to review your drawings and provide you with possible solutions. Custom cutting of Hanover® Products with custom colors and aggregate blends with various textures opens up endless possibilities.

Left Photo: Shoal Creek Valley Splash Plaza, Kansas City, MO; Owner: Carma Developers; Landscape Architect: Gould Evans Associates; Size & Color: Prest® Pavers, #1020; Granite Pavers, Basalt Black; Finish: Thermal, #13

Hanover’s line of Architectural Cast Stone products extends an already diverse line of hardscape products and amenities.

Hanover’s ability to produce precast products that complement Hanover® Pavers creates the opportunity for a completely finished project. Each detail can be coordinated. Custom coping, stair treads and risers, wall caps, pedestrian bollards and many other site furnishings can be produced so that the aggregates and colors will match or accent within the site. Based on drawings and provided information, Hanover’s technical staff will offer assistance to insure each project is custom finished exactly as the designer intended.

Large Left and Above Photos: Stone Hill Center at the Sterling and Francine Clark Art Institute, Williamstown, MA; Architect of Record: Gensler, New York, NY; Design Architect: Tadao Ando Architects & Associates; Landscape Architect: Reed Hilderbrand Associates; Size & Color: Prest® Pavers 17 13/16” x 35 13/16”, Cast Stone, #M2810; Finish: #21
Cheesecake Factory Plaza, Columbia, MD; Landscape Architect: Mahan Rykiel Associates Inc., Baltimore, MD; Size & Color: Cast Stone, Natural; Finish: Tudor®

Above and Left Photos: Four Seasons Hotel, Miami, FL; Design Architect: Bermello Ajamil & Associates, Landscape Architect: Office of Dan Kiley; Size & Color: Prest® Pavers Various Sizes; Cast Stone, Cream, #M2460, #M2463; Finish: #13, Tudor®

Above, Left and Bottom Photos: City View Condominium Association, Chicago, IL; Architect: Postl-Yore & Assoc. Inc., Arlington Heights, IL; Size & Color: 23 1/2” x 23 1/2” x 2”, Cast Stone, Tan, Natural, #M1934; Finish: Natural, Tudor® #13

HANOVER® CAN PROVIDE ARCHITECTURAL CAST STONE PRODUCTS TO COMPLETELY FINISH THE PROJECT.

- Coping
- Stair Treads and Risers
- Pedestrian Bollards
- Benches
- Wall Veneer
The concept of using concrete pavers as roof ballast, plaza deck and terrace pavers has created new opportunities for otherwise lost space. Roofs and decks can be functional, as well as attractive. Hanover® Prest® Pavers provide durability, protection and performance for the roof system from harsh weather conditions.

Hanover® offers a solution for all roofing/waterproofing needs — from Standard Walkway and Roof Ballast, to Architectural Plazas and Green Roofs. Pavers with reflectance and emittance values are available to help earn Sustainable Sites Credits and achieve LEED building certification. Hanover® also offers a paver system which provides superior wind uplift resistance. Roof ballast, functional design, color and durability all come together with Hanover® roof and plaza pavers.
SECTION 2: ROOF & PLAZA PREST® PAVERS

26-31 Roof & Plaza Prest® Pavers
26 Roof & Plaza Prest® Pavers
28 Green Roofs
30 Roof Ballast Pavers
31 Pedestal® Pavers

32-36 Hanover® Pedestal Systems
32 High-Tab® Pedestal & Leveling Shims
33 EPDM Pedestal & Leveling Shims
34 Elevator® Pedestal System
36 Compensator® System

37-41 High Wind Solutions
37 Ventloc® Interlocking Lightweight Roof Ballast

38 Guardian® Paver System
The application of an elevated paver system provides the designer with new possibilities and advantages. Hanover® Pavers are offered in both a standard color range (see pages 44 and 45) and custom aggregate blends. Striping, banding and paving patterns are just a few of the design capabilities made possible by mixing various paver colors, sizes and finishes. A textured Tudor® finish provides slip resistant properties. Safer than gravel ballast, Hanover® Pavers make roofs and plazas safe for pedestrians and simplify repairs.

By elevating the pavers, water is channeled away from the surface. Roof Pavers allow easy access to the roof and waterproofing system for repairs or standard maintenance procedures. Whether your project is a roof, deck, plaza or terrace, Hanover® Roof Pavers are serviceable, functional and attractive.

### ROOF AND PLAZA PAVERS

<table>
<thead>
<tr>
<th>SIZES:</th>
<th>Range from a nominal 12” x 12” to a nominal 24” x 48”</th>
</tr>
</thead>
<tbody>
<tr>
<td>THICKNESS:</td>
<td>2” (Other thicknesses available)</td>
</tr>
<tr>
<td>WEIGHT:</td>
<td>25 lbs/sf (Other thicknesses result in different weights)</td>
</tr>
<tr>
<td>FINISH:</td>
<td>Tudor® for aesthetic and visual applications</td>
</tr>
<tr>
<td>COLORS:</td>
<td>8 standard colors - Quarry Red, Charcoal, Natural, Red 15, Tan, Brown, Cream, Limestone Gray</td>
</tr>
</tbody>
</table>

Custom color and aggregate blending are available on special order when quantities permit.
HANOVER® ROCKCURB® FOR ROOF APPLICATIONS

Hanover® RockCurb® is an integral part of green building projects, helping to earn Sustainable Sites Credits and achieve LEED points. Working with green roof assemblies to provide environmental benefits and aesthetically appealing rooftop gardens, RockCurb® can be used to separate green areas from hardscaped areas.

DRAINAGE PAVERS

Hanover® Drainage Pavers, are available upon request. They can be manufactured with holes or slots depending on the project requirements.
Green roofs provide shade and remove heat from the air, reducing temperatures of the roof surface and the surrounding air. On hot days, the surface temperature of a green roof can be cooler than the air temperature. The surface of a conventional rooftop can be up to 90°F warmer. Because green roofs absorb heat and act as insulators for buildings, energy consumption is decreased and the heat island effect is reduced.

Green roofs can be installed on a wide range of buildings. They can be as simple as groundcover or as complex as a plaza area complete with trees. The popularity of green roofs is increasing as its value is appreciated.

Hanover® Prest® Pavers work hand in hand with Green Roof assemblies to provide environmental benefits and aesthetically appealing rooftops or plaza gardens. From planted areas which incorporate topsoil and mulch to grassy areas over a layer of soil or lightweight gravel fill, Hanover® Pavers are an integral part of these energy-efficient roofs. Pavers can be used to create walkways, terraces or seating areas while providing positive drainage.

HANOVER® PAVERS ARE AN INTEGRAL PART OF ENERGY-EFFICIENT GREEN ROOF DESIGN.
SOLAR REFLECTANCE AND HEAT EMITTANCE

Hanover® can provide pavers with reflectance and emittance values. Solar Reflectance is the ratio of the amount of solar radiation reflected from a surface to the total amount reaching that surface. Emittance refers to a material’s ability to release absorbed heat. The Solar Reflectance Index (SRI) is a value that incorporates solar reflectance and emittance in a single value to represent a material’s temperature in the sun. Hanover’s Glacier White with Tudor® finish, shown above, has high reflectance, emittance and SRI values. These values are a critical element in the roof’s ability to reduce heat consumption. Contact Hanover® for most current information and test results.

HANOVER® & LEED POINTS

The U.S. Green Building Council (USGBC) provides standards for green building design and construction based on LEED Green Building Rating System. Building projects earn points for compliance with Sustainable Sites (SS) Credits. The total points earned result in an overall rating for the building from Certified to Platinum. Hanover® Prest® Pavers are an integral part of green building projects, helping to earn SS Credits and achieve LEED points.
STANDARD PAVERS FOR WALKWAY AND BALLAST

When the project requires an economical roof ballast paver, Hanover® offers a standard paver, stocked in a Natural color and a non-slip Diamond finish. A wide range of sizes are available at a 1 13/16” thickness and a weight of 23 lbs/sf. Unlike river gravel which has been known to be hazardous, pavers used as ballast or walkways provide a durable, safe method of protecting the roof system.

Hanover® Roof Ballast Pavers reduce roof life cycle costs (vs. stone ballast) with lower installation and maintenance expenses. By creating a limited pedestrian walkway, Roof Ballast Pavers make roof inspections safer and easier compared to stone ballast. When installed to completely cover the protected membrane, they shield the membrane from punctures, cuts and ultraviolet ray damage.

PAVERS FOR LIGHTWEIGHT BALLAST

When the roof design will not accommodate the load of a standard paver, Hanover® offers Pavers for Lightweight Ballast, weighing 15 lbs/sf. Sized at 11 3/4” x 23 1/2” x 1 1/4” and 23 1/2” x 23 1/2” x 1 1/4”, Lightweight Ballast Pavers are manufactured in a Natural color and Diamond finish. These may be installed on a protected membrane system for ballasting and limited pedestrian use. However, Hanover® Pavers for Lightweight Ballast are not normally recommended for pedestal applications, particularly if pedestrian access is anticipated.

STANDARD AND LIGHTWEIGHT BALLAST PAVER FINISH

<table>
<thead>
<tr>
<th>FINISH:</th>
<th>Diamond</th>
</tr>
</thead>
<tbody>
<tr>
<td>COLOR: Natural</td>
<td></td>
</tr>
</tbody>
</table>

Diamond is a ballast paver finish. It is not recommended for aesthetic projects. Pavers can be ordered in color when quantities permit.

PLEASE NOTE: It is not recommended that diamond or stipple finish Prest® Pavers be used on applications in which aesthetics are of importance. (Surface blemishes are considered a normal characteristic with this product and should be expected.)

Natural color Prest® Pavers have a tendency to vary in color within any given shipment. It may vary in shade from gray/buff to light gray, and even to a darker gray. This variance should be expected and considered normal for the Natural color Prest® Pavers.
For use as an alternative to the polyethylene pedestal systems, Hanover® Pedestal® Pavers are produced with an integrated concrete foot. The foot elevates the paver providing 1/2" elevation clearance for water drainage. The need for polyethylene pedestals is eliminated. The waterproofing assembly is protected from weather and UV light and pedestrian access is permitted.

With a weight of 22 lbs/sf, Pedestal® Pavers are available in economical ballast finishes. When aesthetics are important, the Tudor® finish should be used.

HANOVER® SPACER TABS
In order to keep joints consistent when installing Hanover® Pedestal® Pavers, Spacer Tabs are available. Not visible from the surface after installation is complete, these flexible rubber-like spacers are placed between each paver to maintain an even 1/8" joint and provide water access to below surface drainage. Spacer Tabs are available in an “X” or “T” shape to accommodate various paving designs.

**HANOVER® PEDESTAL® PAVERS**

<table>
<thead>
<tr>
<th>SIZE:</th>
<th>23 1/2&quot; x 23 1/2&quot; x 2 1/4&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEIGHT:</td>
<td>22 lbs/sf</td>
</tr>
<tr>
<td>ELEVATION CLEARANCE:</td>
<td>1/2&quot;</td>
</tr>
<tr>
<td>FINISH:</td>
<td>Tudor® for aesthetic and visual applications; Diamond for walkway and ballast applications</td>
</tr>
<tr>
<td>COLORS:</td>
<td>8 standard colors - Quarry Red, Charcoal, Natural, Red 15, Tan, Brown, Cream, Limestone Gray</td>
</tr>
</tbody>
</table>

Custom color and aggregate blending are available on special order when quantities permit.

Refer to pages 44 and 45 for paver colors.
Effectively draining water from a roof or plaza is a critical issue for every building. By using an elevated paver system, water is channeled away from the roof surface, reclaiming lost space. Hanover® has developed several pedestal systems to achieve level plaza deck surfaces – even those with unusual slope-to-drain configurations. Hanover® Pedestal Systems are created to work together to accommodate a variety of roof slopes.

High-Tab® Pedestal
- Creates a more solid feel
- Increased spacer tab height
- Prevents paver misalignment
- Can be used with other Hanover® Pedestal Systems

Flexible Leveling Shims

EPDM Pedestals and Shims

Elevator® Pedestal System

Compensator® Leveling System

Please Note: 12" x 12" and PlankStone® Prest® Pavers are not recommended for pedestal set applications due to the size proportionate to the pedestal base. Stabilization of the system is difficult.

Hanover® Pedestal Systems | HIGH-TAB® PEDESTALS

When leveling shims are needed, Hanover’s High-Tab® Pedestal provides a spacer tab with increased height, greatly improving installations. Other pedestals lose spacer tab height as pedestals are stacked, allowing pavers to shift. The added spacer tab height of Hanover’s High-Tab® will secure each paver in its proper location.

High-Tab® Pedestals can also be stacked without losing the performance of a higher spacer tab. High-Tabs can be turned and engaged – one into the other – in such a way that the integrity of the added tab height is still available from the top pedestal.

All Photos: Catalyst, Chicago, IL; Owner: Marquette Companies, Architect: Brininstool + Lynch; Landscape Architect: Laffin Design Group; Size & Color: 23 1/2" x 35 3/8" with score, Charcoal, Limestone Gray; Finish: Tudor®

Hanover® Pedestal Systems | HIGH-TAB® PEDESTALS

HIGH-TAB® PEDESTAL
- 7" across flats
- 5/8" thick
- 1/8" spacers

U.S. Patent 7,386,966 B1

PREST® PAVER ON HIGH-TAB® PEDESTALS
shown on two High-Tab® Pedestals

The illustration above shows a cross section of a roof deck installation. It is important to note the use of an insulation board with a minimum of 60 psi and also a protection layer placed between the insulation and the Pedestals.
Final leveling adjustments can be made with Hanover’s flexible Leveling Shims. These shims are rubber-like, preventing paver movement and providing a more solid feel. They will not slide as they eliminate “rigid on rigid” placement. Thicknesses are available in 1/8” (white) or 1/16” (black). Leveling Shims may be separated into halves or quarters for individual paver adjustments. They can be used with Hanover’s High-Tab® Pedestal and Hanover’s Elevator® Pedestal System.

**FLEXIBLE LEVELING SHIMS**

- 7” across flats
- 1/8” thick : white
- 1/16” thick : black

**SPACER TABS**

Hanover® can provide rubber-like Spacer Tabs for joint consistency. Not visible from the surface after installation is complete, spacers are placed between pavers to maintain 1/8” joints. See page 31 for more information.

Hanover’s EPDM Rubber Pedestal is a flexible paver support pedestal, allowing the pavers to follow the contour of the roof. The EPDM Pedestal is suitable for both Architectural and Ballast applications where water drainage is required. When used in ballast applications, roof membranes are protected from the pavers. This 3/8” fixed height pedestal incorporates 1/8” spacer tabs and leveling shims to make installation easy. The EPDM rubber provides sound deadening qualities, is resistant to the ozone and severe weather conditions and creates a soft feel for walking. This pedestal is not stackable and must be considered only for low elevation support requirements.

Final adjustments can be made with Hanover’s EPDM Leveling Shims. These shims prevent paver movement and provide a more solid feel. Thicknesses are available in 1/8” or 1/16”.

Hanover® Pedestal Systems | EPDM PEDESTALS & LEVELING SHIMS
The Elevator® Pedestal System is an adjustable height pedestal system designed for elevated paver applications. Consisting of a Base, Top Plate, Coupler, StayBar®, and EdgeFinder™, the Elevator® System can accommodate paver heights above 2" up to 24". Components can be interchanged to achieve the desired height with precise adjustments being made with a simple turn.

**TOP PLATE**

Unlike any other pedestal, the Top Plate is equipped with pads that will quiet and secure the paver to the pedestal. Rigid-to-rigid (pedestal-to-paver) hard surfaces can create noise and paver movement when pedestrians walk across. The pads will help eliminate both conditions. The Top Plate incorporates spacer tabs.

**COUPLER**

As part of the Elevator® Pedestal System, Hanover® provides a Coupler to increase paver height by 2 1/2" - 4". Hanover’s Coupler includes a circular flange with multiple holes, or eyelets, for ease of tie bracing. The ring of eyelets around the entire coupler, as well as the holes in the base, enables the installer to securely fasten wires quickly and easily when bracing is required.

**STAYBAR®**

Bracing is required for elevations above 16” and up to 24”. For use with nominal 24” x 24” paver installations, Hanover® offers the StayBar® which fits firmly between Elevator® bases to prevent low tab or high tab, which set a uniform 1/8” space between pavers and aid with alignment. Four tab, three and no tab designs are available to accommodate various installation designs. The Top Plate provides over 42 square inches of bearing area.

**HANOVER® PEDESTAL HEIGHTS**

Please Note: Heights shown are pedestal heights only. For final paver installation height, add the thickness of the paver to the pedestal height. Leveling Shims can be added to EPDM or High-Tab® Pedestals for final leveling adjustments.

Hanover® EPDM Pedestals are not stackable.
movement of the assembly. Adequate stabilization is provided when used in conjunction with wire cross ties. Bracing should be achieved using a stainless steel 18 gauge wire, available through the MSC Catalog, part #31980188. Request installation guidelines for horizontal and cross bracing.

Please Note: StayBars are required for applications 16” and above. The ratio of StayBars to elevators is approximately 2 StayBars to every Elevator®. Quantities of StayBars may be more or less depending on the project. Make sure you have enough StayBars to secure all connections. All specific configurations of cross tying should be reviewed with a Hanover® Sales Representative.

The Elevator® can be used with other Hanover® Pedestal Systems. In order to accommodate required elevations in the most efficient manner, Hanover’s Pedestal Systems can be used in various combinations. The chart below demonstrates possible height solutions using Elevator® System from 2” to 24”. The High-Tab® Pedestal must be used for heights from 5/8” to 2”.

Please Note: StayBars are required for applications 16” and above. The ratio of StayBars to elevators is approximately 2 StayBars to every Elevator®. Quantities of StayBars may be more or less depending on the project. Make sure you have enough StayBars to secure all connections. All specific configurations of cross tying should be reviewed with a Hanover® Sales Representative.
Recognizing sloped installations as a challenge, the Hanover® Compensator® Paver Leveling System was designed to "compensate" for the roof slope. The Compensator® is a specially designed tapered circular base made of high density plastic making them impervious to water. Their unique twist-to-adjust design allows for easy adjustment.

When used under Hanover’s support pedestals, the Compensator® will reverse the roof taper and create a level surface for paver installations. Using the Elevator®, High-Tab® or Standard Pedestal in conjunction with the Compensator® provides horizontal stability and joint alignment. Leveling Shims can be used for additional adjustments.

The system will accommodate a variety of roof slopes. A roof slope of 1/8” will be leveled by using one Compensator®. By using two or more and aligning the units in the correct manner, roof slopes from 5/32” to 1/2” can also be leveled.
Ventloc® provides superior wind uplift resistance at wind speeds up to 130 mph. Designed with tongue and groove sides and a patented venting edge that enables the rapid transfer of over paver to under paver pressures (known as pressure equalization*), this unique combination results in a significant enhancement of lightweight paver system wind uplift resistance. The patented interlocking tongue and groove design creates a monolithic paver surface in which an individual paver is no longer the weakest link.

Ventloc’s high compressive strength provides a solid surface to withstand severe weather conditions, UV attack and physical abuse. A solid roof surface is maintained to provide the ultimate protection from extreme weather conditions.

Ventloc® can be installed on a protected membrane system up to and including a slope of 2” in 12”. Multi-directional under surface water drainage has been incorporated into the air vent design.

Sized at 11 3/4” x 17 5/8” x 2”, Ventloc® is stocked in a Natural color with a Natural finish. Ventloc® is available in all of Hanover’s standard colors as well as a Tudor® finish. Additional colors are available when quantities permit. When reflective properties are important, white is available.

Hanover’s Ventloc® is stocked in two weights – Standard and Heavy weight. The standard weight Ventloc® is 15-17 lbs/sf and the heavyweight Ventloc® is 18-20 lbs/sf. Custom weights can be accommodated to meet specific design requirements. Weight is distributed evenly in comparison to stone ballast. With stone ballast, weight can shift and vary.

- Vents enable rapid transfer of air pressures
- Patented tongue and groove design
- Limited pedestrian use
- Multi-directional under surface water drainage
- Stocked in Natural color with a Natural finish
- Available in Hanover’s standard colors as well as white
- Fire Resistant Class A Rating
- Stocked in two weights with custom weight options available
- Uniform weight distribution

*Pressure equalization = The newly designed slots (or vents) in the Ventloc® edges of adjacent pavers allow transfer of top surface pressures to the underneath side which results in a pressure equalization effect that reduces net paver wind uplift.
the entire roof surface and prevent horizontal and vertical movement of the roof paver.

In order to create the monolithic system, the Guardian® Pedestal is combined with a specially shaped paver. The Guardian® Paver is available in several standard sizes and a variety of colors and textures. The Guardian® Paver meets or exceeds all ASTM requirements for concrete unit paving.

The Guardian® Pedestal has a square top which allows its bolt to pass through to a base beneath, fitting into a recessed grooved portion of the Guardian® Paver. The Guardian® Paver is specifically shaped to solidly secure itself into the pedestal base. The Guardian® Pedestal System maintains a 1/8” joint for the roof paver system.
High Wind Solutions | GUARDIAN® PAVER SYSTEM

**GUARDIAN® TECHNICAL DATA**

**HIGH DENSITY POLYETHYLENE PROPERTIES**

| TENSILE STRENGTH: | 8,600 psi - ASTM D638 |
| TENSILE ELONGATION: | 3% - ASTM D638 |
| FLEXURAL STRENGTH: | 11,200 - ASTM D790 |
| FLEXURAL MODULUS: | 1,200,000 - ASTM D790 |
| COLOR SHIFT: | less than 1% |

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<th>UNIT SIZE</th>
<th>THICKNESS</th>
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<tr>
<td>17 5/8” x 35 3/8” (with or without score)</td>
<td>2”, 2 1/2”, 3”</td>
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<tr>
<td>23 1/2” x 23 1/2”</td>
<td>2”, 3”</td>
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<tr>
<td>23 1/2” x 35 3/8” (with score)</td>
<td>2”, 3”</td>
</tr>
<tr>
<td>29 3/4” x 29 3/4”</td>
<td>2”</td>
</tr>
</tbody>
</table>

- Specially designed for wind uplift resistance
- Paver movement is prevented creating a monolithic roof paver surface
- Compatible with other Hanover® Pedestals including the Elevator®
- Available in a variety of colors
- Based on Florida’s Building Code TAS 108 test, Guardian® will provide a wind uplift resistance of -81.1 psf.

**GUARDIAN® PAVING SYSTEM**

- Le Ciel Venetian Towers, Naples, FL: Size & Color: 23 1/2” x 23 1/2” x 2” with Guardian® Paver System, Cream, Brown, Finish: Tudor®
- University of Alabama School of Nursing, Birmingham, AL: Size & Color: 23 1/2” x 23 1/2” x 2” with Guardian® Paver System, Antietam; Finish: Heavy Tudor®
- Coronado Resort Hotel, Virginia Beach, VA: Size & Color: 23 1/2” x 23 1/2” with Guardian® Paver System, Cream, Brown; Finish: Tudor®

**U.S. Patent #6,604,330**
**Canadian Patent 2,409,312**
When tightening the screw in the top plate of the Guardian® System, only secure to a snug position. DO NOT OVERTIGHTEN. Paver movement is contained and locked into place. The inner workings of the roof assembly are protected and hidden from view, while allowing easy access to the roof/waterproofing system for making repairs or performing maintenance procedures. The Guardian® Paver System is compatible with Hanover’s Elevator® Pedestal System permitting a variety of combinations and providing many solutions for roof paver installations.

Above and Top Photos: Tampa Bay Times Forum, Tampa, FL; Architect of Record: BDG Architects; Design Architect: Generator Studio; Owner: TBSE; Size & Color: 23 1/2” x 23 1/2” with Guardian® Paver System, Cream, Quarry Red; Finish: Tudor®


THE GUARDIAN® PAVER SYSTEM IS AVAILABLE IN ALL OF HANOVER’S STANDARD PREST® PAVER COLORS.
The standard color for the assembly is black which can be used for the most extreme UV conditions. As shown to the left, the Guardian® top plate, pedestal and bolt are also available in all of Hanover’s standard Prest® Paver colors, as well as Glacier White. (For paver colors, please refer to pages 44 and 45.) These colors will blend with or contrast the paver installation. The Guardian® System can be special ordered in other colors when quantities permit.

**SOLAR REFLECTANCE**

When reflectivity properties are important (LEED installations), Glacier White has the highest values. For maximum reflectance values, the Glacier White Guardian® System should be used with Glacier White pavers. See pages 28 - 29 for more information on green roofs.
One advantage of using concrete unit pavers is the variety of shapes and sizes available. The choice of paver size, color and texture can dramatically impact a project’s appearance. The correct paver thickness, setting bed, base and edge restraint are equally important. Each project is unique and provides different challenges.

Section 3 consists of information such as Prest® Paver colors and textures, installation guidelines and relative strengths. This information is provided to make the ordering process easier.

Whether the project at hand is a commercial walkway or green roof garden, Hanover® stands ready to assist. A Hanover® representative will listen to your project ideas and explain the endless possibilities Hanover® has to offer.
SECTION 3: PREST® PAVERS PRODUCT DATA

44 Prest® Paver Colors & Textures

46 Prest® Paver Sizes & Thicknesses

47 Prest® Paver Relative Strengths

47 Installation Guidelines

48 Pedestrian vs. Vehicular Use Size Comparison
Texture is as important to the appearance of the installation as color and pattern. Hanover’s Ground Finish provides a smooth surface revealing the aggregates beneath. Custom color and aggregate blending is available when quantities permit.

The SlateFace® Paver has been designed to reproduce the texture, color and appearance of natural slate. Stocked in Hanover’s BlueStone and Tennessee Flagstone colors, its irregular top surface was developed from actual sections of stone.

**PLEASE NOTE:** Natural color Prest® Pavers have a tendency to vary in color within any given shipment. It may vary in shade from gray/buff to light gray, and even to a darker gray. This variance should be expected and considered normal for the Natural color Prest® Pavers.

**PLEASE NOTE:** For stability of color, sealing is recommended. Two types of sealers are suggested – Hanover® Intensifying Sealer or Hanover® Natural Sealer.

The eight standard colors shown are available in a wide range of paver sizes and thicknesses. Custom color blending can be accommodated, as well as, custom aggregate blending. Hanover’s Tudor® Finish is an architectural texture which gives the surface a granite-like appearance. It is a surface equally suited to urban and municipal projects.

### Prest® Paver Product Data | CUSTOM COLORS WITH GROUND FINISH

Texture is as important to the appearance of the installation as color and pattern. Hanover’s Ground Finish provides a smooth surface revealing the aggregates beneath. Custom color and aggregate blending is available when quantities permit.

### SLATEFACE® PREST® PAVER COLORS

The SlateFace® Paver has been designed to reproduce the texture, color and appearance of natural slate. Stocked in Hanover’s BlueStone and Tennessee Flagstone colors, its irregular top surface was developed from actual sections of stone.

**PLEASE NOTE:** The color photos shown to the left are a representation of possible color blend and texture. The actual product may vary. Hanover’s blended colors consist of several shades and will include some solid and some blended pieces.

### CUSTOM COLORS WITH TUDOR® #13 FINISH

Hanover® Pavers are also produced in a Tudor® #13 finish which gives a delicate sandstone texture. A few available colors are shown below. Other custom colors can be ordered when quantities permit.

**PLEASE NOTE:** For stability of color, sealing is recommended. Two types of sealers are suggested – Hanover® Intensifying Sealer or Hanover® Natural Sealer.
The blends shown below were developed by Hanover’s efforts to respond to particular project requirements. Additional custom blending is available on special order when quantities permit. Hanover’s Tudor® finish is a specialized texture designed to reveal the aggregates naturally. It gives the surface a granite-like appearance which adds slip resistant qualities to the paver.

PLEASE NOTE: Additional custom blending is available on special order when quantities permit. The color photos shown in this catalog were prepared with great concern for accuracy. However, it is suggested that actual samples be requested before specifying. Due to the natural variance of the raw materials used, pavers can be expected to differ slightly from sample to actual product. It is recommended that the pavers be cleaned after the installation is finished. Please contact our representatives for product suggestions.

Colors shown are custom colors. Please contact a Hanover® Sales Representative for pricing.

* Colors are available with a Heavy Tudor®, Ground or Ground Tudor® finish only.
## Dimensionally Compatible Prest® Paver Sizes

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<tr>
<th>Size</th>
<th>1 1/4&quot;</th>
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<th>1 3/4&quot;</th>
<th>1 13/16&quot;</th>
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## Additional Prest® Paver Sizes

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Hexagonal, 402mm across flats: Hexagonal, 15 7/8" across flats
Hexagonal, 597mm across flats: Hexagonal, 23 1/2" across flats
Octagonal, 402mm across flats: Octagonal, 15 7/8" across flats

## Miscellaneous Roof Paver Sizes

### Lightweight Roof Ballast: 15 LBS/SF

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### Pedestal® Paver: 22 LBS/SF

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### Special Size Paver for Roof Ballast Application: 29 LBS/SF

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### Special Size Paver for Pedestrian Urban Application: 32 LBS/SF

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Please note: Paver weight at a 2" thickness is 25 lbs/sf.

Please Note:
Standard manufactured thickness for pedestrian applications is 2". However, when utilized in urban pedestrian applications, a 2 1/2" thickness is recommended. The additional strength will help to accommodate the unpredictable circumstances and stressful situations that exist in the urban city environment. Contact Hanover® for a full list of paver sizes and their available thicknesses appropriate for the intended use.
Hanover® Prest® Pavers are manufactured by unique methods which duplicate the qualities of natural stone. Hanover® applies over a million pounds of pressure to each unit, fusing the aggregates and stones together. This unique process ensures a paver which is stronger and more durable than a cast or lightweight product. Hanover’s test results show high compressive strength, density, and low water absorption qualities comparable to natural stone.

Unique manufacturing methods provide relative strengths comparable to natural stone. Some mix designs may test lower than shown above due to softer aggregates used for custom blending.

**Prest® Paver Product Data | INSTALLATION GUIDELINES**

Due to limited catalog space, installation specifications have been reduced to brief guidelines. Contact a Hanover® representative for installation recommendations. When reviewing these guidelines, please take the conditions and situations unique to the location and individual project into consideration. Also take into consideration the purpose for which the application was intended.

Commercial applications will require examination of the project requirements and the appropriate Prest® Paver size and thickness. Base preparation, edge restraint and their specifications are also important and must be given consideration. An architect, landscape architect and/or structural engineer should be consulted to develop a specification for the individual project.

**Prest® PAVER | BITUMINOUS SETTING BED OVER RIGID BASE**

**PLEASE NOTE:** For vehicular applications, sub base and sub straight should be designed to accommodate the intended loads. Selection of Prest® Paver sizes for vehicular loading should be reviewed with a Hanover® Technical Sales representative. Refer to back page for more information.

**Prest® Paver Product Data | RELATIVE STRENGTHS**

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<th>Property</th>
<th>Value</th>
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<td>Absorption</td>
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<td>Density</td>
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<tr>
<td>Flexural</td>
<td>1,100 psi</td>
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### SUGGESTED SETTING BED METHODS FOR PAVER APPLICATIONS (SETTING BED ONLY)

**ON-GRADE:**
- Bituminous Setting Bed, 3/4” not rolled, maintain 1/8” joint, sand sweep (Gauging of pavers is recommended.)
- Latex Modified Mortar Bed with latex modified grout over concrete slab

**ROOF BALLAST:**
- Loose Laid over waterproofing and protection layer

**DECKS AND TERRACES:**
- Pavers on Pedestal System over waterproofing and protection layer

Please see back for PEDESTRIAN VS. VEHICULAR USAGE COMPARISON CHART. For moderate vehicular use, refer to the ARCHITECTURAL PREST® CONCRETE BRICK and/or HANOVER® ASPHALT BLOCK brochures.
### Pedestrian vs. Vehicular Usage Comparison

<table>
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<tr>
<th>HANOVER® PRODUCT</th>
<th>PEDESTRIAN USE</th>
<th>LIGHT VEHICULAR USE</th>
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<tr>
<td>Riven</td>
<td>use by persons on foot and any mobility impaired persons using a wheelchair</td>
<td>pedestrian use &amp; low speed, low volume residential and light commercial vehicular use</td>
<td>pedestrian use &amp; low speed, moderate volume residential and moderate commercial vehicular use</td>
</tr>
<tr>
<td>Olde Hanover®</td>
<td>3&quot;</td>
<td>3&quot;</td>
<td>3&quot;</td>
</tr>
<tr>
<td>Serengeti® 6” x 6” &amp; 6” x 9”</td>
<td>2 3/8”</td>
<td>2 3/8”</td>
<td>NO MODERATE VEHICULAR USE</td>
</tr>
<tr>
<td>Serengeti® Mixed</td>
<td>3”</td>
<td>3”</td>
<td>3”</td>
</tr>
<tr>
<td>Serengeti 14” x 14”</td>
<td>3”</td>
<td>3”</td>
<td>NO MODERATE VEHICULAR USE</td>
</tr>
<tr>
<td>Halifax® Flagstone</td>
<td>3”</td>
<td>3”</td>
<td>3”</td>
</tr>
<tr>
<td>Appian®</td>
<td>2 3/8”</td>
<td>2 3/8”</td>
<td>3”</td>
</tr>
<tr>
<td>PlankStone®</td>
<td>4”</td>
<td>PLANKSTONE® 3” x 9” x 4” ONLY</td>
<td>PLANKSTONE® 3” x 9” x 4” ONLY</td>
</tr>
<tr>
<td>Traditional®</td>
<td>2 3/8”</td>
<td>2 3/8”</td>
<td>3”</td>
</tr>
<tr>
<td>Multisided</td>
<td>2 3/8”</td>
<td>2 3/8”</td>
<td>3”</td>
</tr>
<tr>
<td>Prest® Block 11 3/4” x 11 3/4”</td>
<td>2”</td>
<td>3” *</td>
<td>NO MODERATE VEHICULAR USE</td>
</tr>
<tr>
<td>4” x 6”, 6” x 6”, 5” x 12”, 6” x 12”, 8” x 8”, 8” Hexagonal</td>
<td>1 1/4”</td>
<td>3”</td>
<td>3”</td>
</tr>
<tr>
<td>3D Diamond</td>
<td>1 1/4”</td>
<td>NO LIGHT VEHICULAR USE</td>
<td>NO MODERATE VEHICULAR USE</td>
</tr>
</tbody>
</table>

* The 11 3/4” x 11 3/4” x 3” Prest® Paver is applicable only in limited vehicular conditions. Please consult the Hanover® Technical Sales Staff for more information. For vehicular applications, base materials must be engineered with the intended vehicular loading conditions in mind. Please contact our sales staff for more information. • Hanover® suggests, Prest® Pavers for urban environments have a thickness of 2 1/2”. • Please Note: Not all sizes/colors are stocked materials. Some are only available through special order and when quantities permit. • Not all product styles are available in the full range of thicknesses. Please refer to Hanover’s specific product literature for availability.

**PRODUCT INSTALLATION:** Each project and site conditions are unique. It is important to contact a Hanover® representative for product details and installation guidelines. An architect, landscape architect, and/or structural engineer should be consulted to develop a specification suited for the individual project. • Neither this catalog, nor any of the individual product catalogs from Hanover® Architectural Products, is intended to be a design manual. The projects pictured and the installation suggestions given in this catalog are only illustrations of Hanover® products. Each application and specification for installation should have the attention of an architect, landscape architect, and/or structural engineer. • As product use and site conditions are not within our control, Hanover® does not guarantee results from use of such products or other information herein: no warranty, express or implied is given. As government regulations and use conditions may change, it is the Buyers responsibility to determine the appropriateness of these products for the specific end uses.

**PLEASE NOTE:** The color photos shown in this catalog were prepared with great concern for accuracy. However, it is suggested that actual samples be requested before specifying. Due to the natural variance of the raw materials used, products can be expected to differ slightly from sample to actual product. It is recommended that the products be cleaned after the installation is finished. Please contact our representatives for product suggestions.

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**CONTACT US** for product details and information. We invite you to call us at 800-426-4242 to discuss your project, visit our web site www.hanoverpavers.com to download current catalogs and more detailed product information, or request our complete product brochures and samples.

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