

Product Guide

VOLUME THREE





Indiana limestone is a natural product. Subtle variations in color and texture do occur and are part of what makes this natural stone unique and attractive. We cannot guarantee an exact match to any of the photographic images contained in this guide. Indiana Limestone Company's continuing attention to product improvement requires that product specifications, technical information, and availability are subject to change without notice. © 2018 Indiana Limestone Company All Rights Reserved. **March 2018 Product Guide**

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Indiana Limestone Company

Built On Excellence and Innovation

Indiana Limestone Company is unmatched as the only fully integrated supplier of Indiana limestone. From raw block, slab material, and standard building products, we are a leading supplier of the nation's building stone. Since our founding in 1926, we continue to be the largest limestone quarrier and fabricator in the United States. At Indiana Limestone Company, our strength is in our reliability as we consistently provide high quality products and services to meet your needs.

An Extensive Inventory of Remarkable Natural Stone

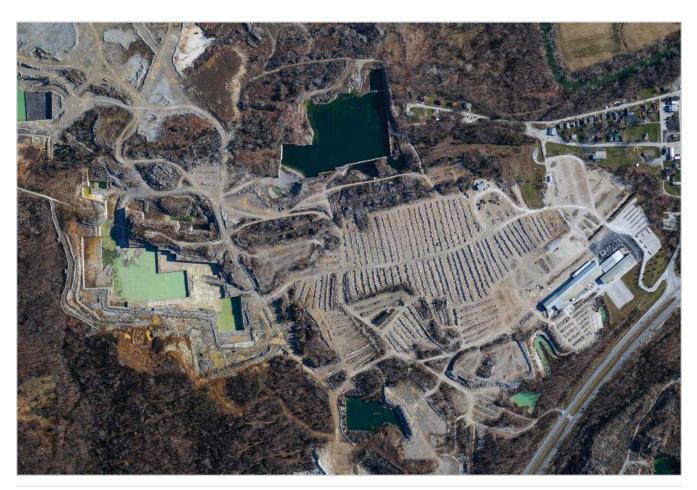
Over 85 years ago, a group of visionaries representing 24 limestone companies, or 90% of this area's stone industry, combined virtually an entire industry into one entity: **Indiana Limestone Company**. Today, our company carries on that tradition. Located in the heart of one of the world's richest limestone deposits, we own more than 4,500 acres that contain over 300 years of reserves.

Our extensive inventory offers the widest range of colors, grades, and products all readily available for quick delivery around the world.

We combine modern technology with traditional craftsmanship to make the architect's vision a reality. The size of our operation has allowed us to pursue both large and small construction and restoration projects, including some of the most prestigious works of American architecture – the Empire State Building, Pentagon, Yankee Stadium, 15 Central Park West, and National Cathedral – along with 36 of the 50 state capitol buildings.

Quality Customer Service

We take pride in the customer focused service we deliver. Our foundation is built upon the skill and dedication of the people at Indiana Limestone Company, as we bring the highest quality natural resource to you. Contact us today for samples and information on how to specify Indiana limestone for your next project. Choose Indiana Limestone – a remarkable raw material that will endure for generations.



From Quarry Operations to Building Products

The strength of the Indiana Limestone Company is consistently providing reliable and innovative building solutions. Investments in technology have allowed us to continually be the largest limestone quarrier in the United States with the highest quality stone reserves. Focusing on efficiency, quality and, above all, safety every step of the way, we extract more than 6 million cubic feet of limestone each year. These technological investments and owning the raw material supply have lead to faster production to better meet your project and stocking needs.

Indiana Limestone Company's vision and mission has evolved from a quarrier to a vertically integrated high-end building products company. Our two signature product lines are the Urban Hardscapes and Estate Veneer Series. Our veneers, Vanderbilt Classic®, Berkshire™, and Rockford Estate Blend®, offer timeless accents and durability to residential, institutional, and commercial projects. Our Urban Hardscapes products, which include pavers, wall caps, pier caps, pool coping, garden wall, and steppers, offer an expansive product line for dealers.









Since 1926, we've seen numerous trends in the building products industry and have helped thousands reach their vision. At Indiana Limestone we want to continually provide you the knowledge and resources that give you inspiration and help bring your vision to life. We believe your vision deserves limestone. See the benefits of Indiana Limestone for yourself and get inspired for your next project.

Natural Beauty

A one-of-a-kind building material, natural stone's breadth of color and texture offers a unique and unmatched aesthetic.

Consistency

Indiana Limestone offers an unmatched consistency, which is unique amongst natural stone products. Lesser materials have come and gone, while Indiana limestone has been in use for more than 160 years.

Complementary

Natural products add value to everything from brick to granite to wood in both traditional and contemporary environments.

Versatility

Limestone offers nearly unlimited application opportunities. For example, limestone pier caps can be used as base caps for columns. Limestone sills can pitch two ends to form a mantel or act as a hearthstone for an outdoor living space. The only limit is your imagination.

Durability

Outdoor hardscapes need to weather the elements. Landscapes built with limestone decades ago are still in use today, including the grounds of the Biltmore House in Asheville, North Carolina, and Longwood Gardens in Philadelphia, Pennsylvania.

Your Vision Deserves Limestone

Low Life-Cycle Costs

Indiana Limestone is low-maintenance, requiring only the occasional re-pointing of stone joints and cleaning, if desired.

High SRI Ratings

Test results show limestone has high ratings for solar reflectance index (SRI), which measures the ability of a constructed surface to reflect solar heat. This means sustainable residential landscape design with limestone can increase environmental health as a low-impact material.

Reflective materials help reduce air temperatures in cities that deal with the urban heat island effect.

Recyclable

Indiana Limestone can be taken from one project and reused on another, as elements in another building, landscape stones, in perimeter walls, or even as site fill.

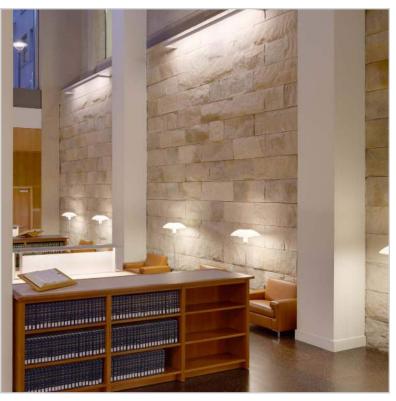
Cost-Effective

Standard products are less expensive than full-custom products at a fraction of the lead-time. They also help to standardize installation requirements and more accurately predict labor estimates.

The beauty of limestone is that it offers unmatched versatility and durability to fit perfectly into the dream space your clients want.



Gas Company Loft in Los Angeles, California built in 1924.



UC Berkeley Law School in Berkeley, California. Photo ©Tim Griffith



ESTATE VENEER SERIES

Permanence and beauty combined.

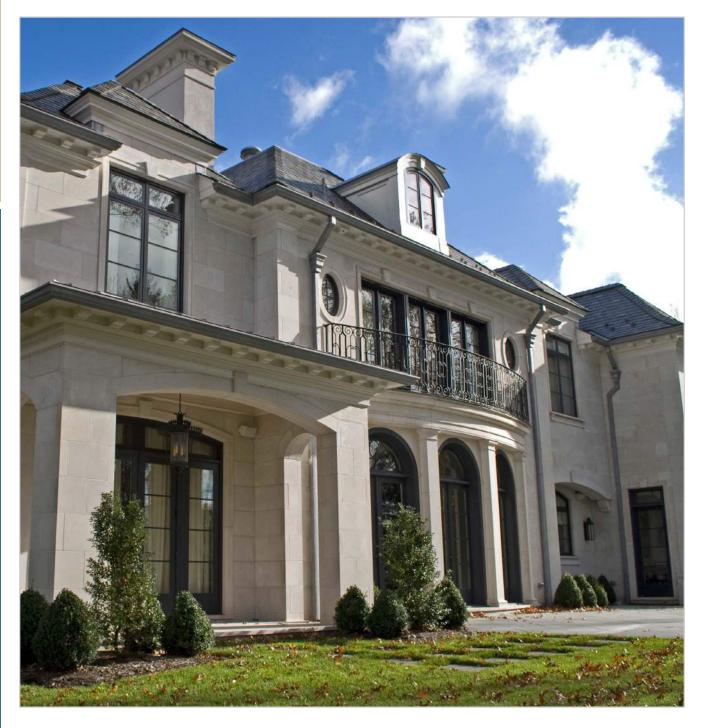
Our Estate Veneer Series offers legendary durability and timeless design for your next home or landscape project. Our veneer styles include Berkshire™, Rockford Estate Blend®, and Vanderbilt Classic®, each offering distinct character and charm to your project.











Estate Veneer Series Vanderbilt Classic®

Vanderbilt Classic® is a solid, genuine natural Indiana Limestone sawn veneer. The strong, clean look of real limestone is ideal for commercial and fine residential structures.

Available in Thin and Full Bed Veneer.

Vanderbilt Classic® Full Bed Veneer

Vanderbilt Classic® Smooth Face

IMPERIAL	. METRIC				
Height	Depth	Length	Height	Depth	Length
3-5/8"	3-5/8"	23-5/8"	92.08mm	92.08mm	600.08mm
7-5/8"	3-5/8"	23-5/8"	193.68mm	92.08mm	600.08mm
11-5/8"	3-5/8"	23-5/8"	295.28mm	92.08mm	600.08mm
15-5/8"	3-5/8"	23-5/8"	396.88mm	92.08mm	600.08mm

Vanderbilt Classic® Split Face

IMPERIAL	L METRIC				
Height	Depth	Length	Height	Depth	Length
3-5/8"	3-5/8"	23-5/8"	92.08mm	92.08mm	600.08mm
7-5/8"	3-5/8"	23-5/8"	193.68mm	92.08mm	600.08mm
11-5/8"	3-5/8"	23-5/8"	295.28mm	92.08mm	600.08mm

Vanderbilt Classic® Stretcher

IMPERIAL			METRIC		
Height	Depth	Length	Height	Depth	Length
3-5/8"	3-5/8"	35-5/8"	92.08mm	92.08mm	904.88mm
7-5/8"	3-5/8"	35-5/8"	193.68mm	92.08mm	904.88mm
11-5/8"	3-5/8"	35-5/8"	295.28mm	92.08mm	904.88mm
15-5/8"	3-5/8"	35-5/8"	396.88mm	92.08mm	904.88mm

Vanderbilt Classic® Banding

IMPERIAL METRIC					
Height	Depth	Length	Height	Depth	Length
3-5/8"	3-5/8"	47-5/8"	92.08mm	92.08mm	1209.68mm
7-5/8"	3-5/8"	47-5/8"	193.68mm	92.08mm	1209.68mm



Notes

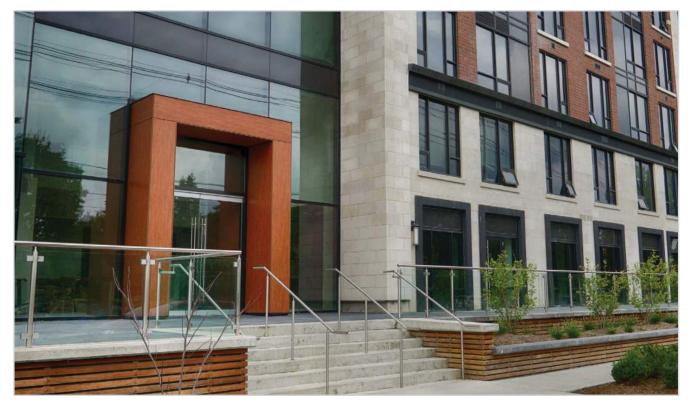
Cost-effective modular unit installation using traditional brick ties and having proper coverage/weight balance for efficient setting. A full line of standard accent units is available to match the entire range of color of Vanderbilt Classic®.

Refer to your price guide or contact Indiana Limestone for color, grade, and texture availability.

Vanderbilt Classic®







Vanderbilt Classic® Thin Veneer

Vanderbilt Classic® Thin Veneer Flats

IMPERIAL	METRIC				
Height	Depth	Length	Height	Depth	Length
3-5/8"	1-3/16"	23-5/8"	92.08mm	30.00mm	600.08mm
7-5/8"	1-3/16"	23-5/8"	193.68mm	30.00mm	600.08mm
11-5/8"	1-3/16"	23-5/8"	295.28mm	30.00mm	600.08mm
15-5/8"	1-3/16"	23-5/8"	396.88mm	30.00mm	600.08mm



Vanderbilt Classic® Thin Veneer Corners

IMPERIAL		METRIC					
Height	Depth	Length	Height	Depth	Length		
3-5/8"	1-3/16"	23-5/8"	92.08mm	30.00mm	600.08mm		
7-5/8"	1-3/16"	23-5/8"	193.68mm	30.00mm	600.08mm		
11-5/8"	1-3/16"	23-5/8"	295.28mm	30.00mm	600.08mm		
15-5/8"	1-3/16"	23-5/8"	396.88mm	30.00mm	600.08mm		



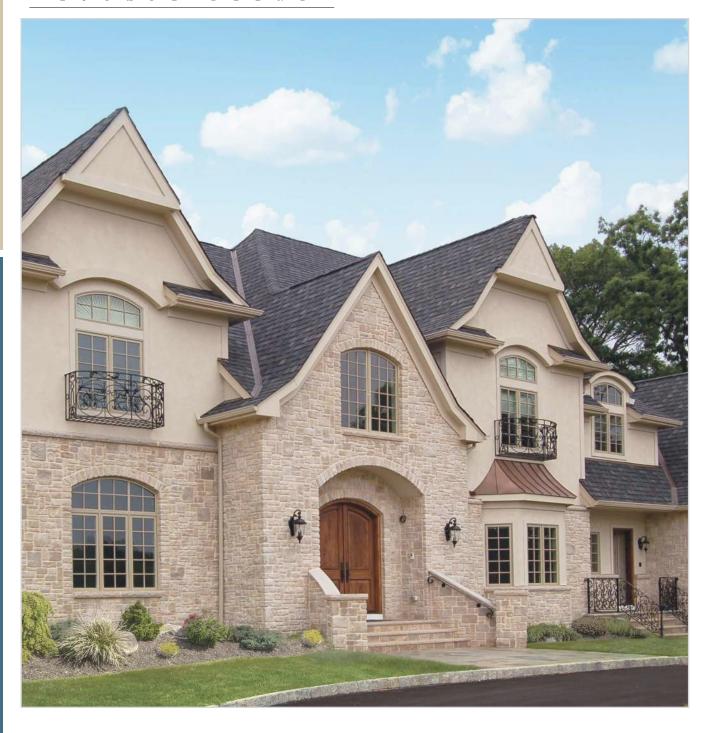
Quirk Miter Corners

Notes

Cost-effective modular unit installation in a thin veneer application.

Refer to your price guide or contact Indiana Limestone for color, grade, and texture availability.

ROCKFORD*



Estate Veneer Series Rockford Estate Blend®

Rockford Estate Blend® is a beautiful veneer of lightly tumbled genuine Indiana Limestone with a full range of natural color and sizes that will accentuate the dynamics of each individual application and architectural style.

Available in Thin and Full Bed Veneer.

Rockford Estate Blend® Full Bed Veneer

Rockford Estate Blend®

IMPERIAL				METRIC		
	Height	Depth	Length	Height	Depth	Length
	2"-12"	3"-5"	6"-8"	50.80 - 304.80mm	76.20 - 127.00mm	152.40 - 457.20mm



Notes

These products are used to the best advantage when the variations of grain and natural characteristics are allowed to complement the stone color and jointing pattern.

When Rockford Estate Blend® is used in a random pattern, it is suggested that no vertical joint in the pattern be higher than the highest course height being used, no horizontal joint be more than three stones long, and that no stones the same height be placed end to end.

Refer to your price guide or contact Indiana Limestone for color, grade, and texture availability.

Rockford Estate Blend®







Rockford Estate Blend® Thin Veneer

Rockford Estate Blend® Thin Veneer Flats

IMPERIAL		METRIC			
Height	Depth	Length	Height	Depth	Length
2"-12"	1-1/4" nominal*	8"-18"	50.80 - 304.80mm	31.75mm nominal*	50.80 - 304.80mm
2"-12"	1-1/4" nominal*	4"-12"	50.80 - 304.80mm	31.75mm nominal*	101.60 - 457.20mm

Rockford Estate Blend® Thin Veneer Corners

IMPERIAL			METRIC		
Height	Depth	Length	Height	Depth	Length
2"-12"	1-1/4" nominal*	8"-18"	50.80 - 304.80mm	31.75mm nominal*	50.80 - 304.80mm
2"-12"	1-1/4" nominal*	4"-12"	50.80 - 304.80mm	31.75mm nominal*	101.60 - 457.20mm

^{*}Nominal depth is indicated because of inherent variation in depth with a broken and tumbled product. Depths will vary between 3/4" (19.05mm) to 1-1/4"(31.75mm). Corners include returns to mimic full-bed-depth products. Return depth on corners is between 3" (76.20mm) and 4" (101.60mm).





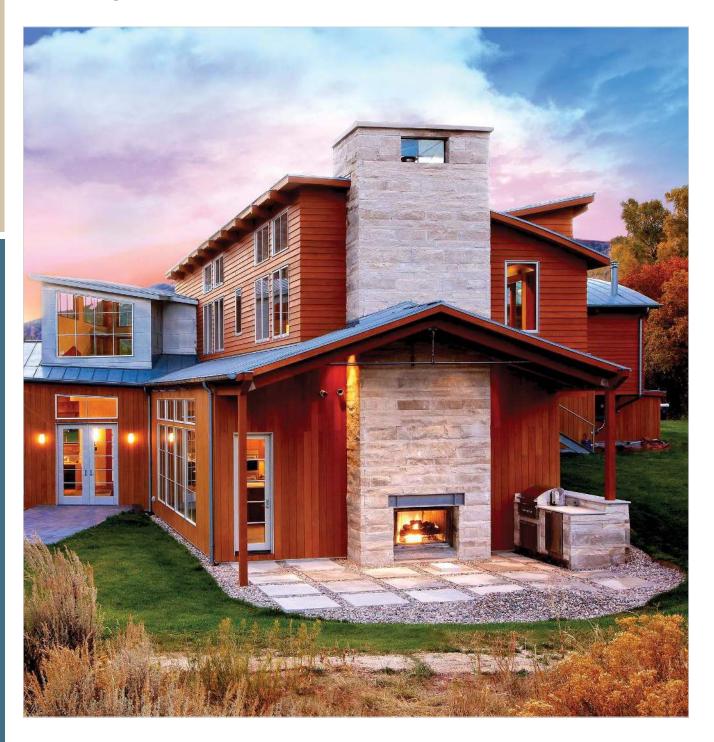
Notes

These products are used to the best advantage when the variations of grain and natural characteristics are allowed to complement the stone color and jointing pattern.

When Rockford Estate Blend® is used in a random pattern, it is suggested that no vertical joint in the pattern be higher than the highest course height being used, no horizontal joint be more than three stones long, and that no stones the same height be placed end to end.

Refer to your price guide or contact Indiana Limestone for color, grade, and texture availability.

BERKSHIRE



Estate Veneer Series Berkshire™

Berkshire™ is a solid, genuine, natural Indiana Limestone split face veneer. The variation of height courses creates a classic and pleasing random definition for both commercial and fine residential structures.

Available in Thin and Full Bed Veneer.

Berkshire™ Full Bed Veneer

Berkshire™

IMPERIAL	•		METRIC		
Height	Depth	Length	Height	Depth	Length
2-1/4"	3" – 4"	24-40"	57.15mm	76.20 - 101.60mm	609.60 - 1016.00mm
5"	3" - 4"	24-40"	127.00mm	76.20 - 101.60mm	609.60 - 1016.00mm
7-3/4"	3" - 4"	24-40"	196.85mm	76.20 - 101.60mm	609.60 - 1016.00mm
7-3/4"	3" - 4"	24-40"	266.70mm	76.20 - 101.60mm	609.60 - 1016.00mm



Notes

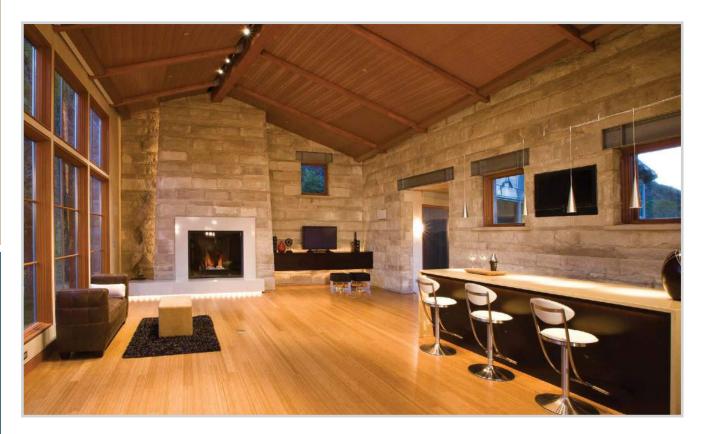
Berkshire™ is defined as "semi-dimensional" and is furnished in random lengths for job site fittings.

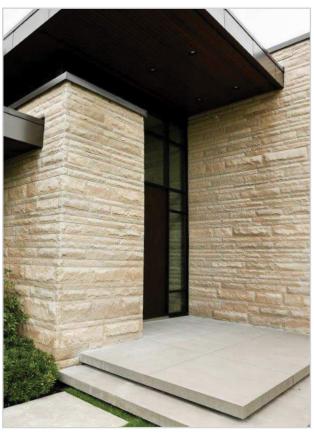
These products are used to the best advantage when the variations of grain and natural characteristics are allowed to complement the stone color and jointing pattern.

When Berkshire™ is used in a random or ashlar pattern, it is suggested that no vertical joint in the pattern be higher than the highest course height being used, no horizontal joint be more than three stones long, and that no stones the same height be placed end to end.

Refer to your price guide or contact Indiana Limestone for color, grade, and texture availability.

Berkshire™







Berkshire™ Thin Veneer

Berkshire™ Thin Veneer Flats

IMPERIAL			METRIC		
Height	Depth	Length	Height	Depth	Length
2-1/4"	1-1/4" nominal*	8-40"	57.15mm	31.75mm	203.20 - 1016.00mm
5"	1-1/4" nominal*	8-40"	127.00mm	31.75mm	203.20 - 1016.00mm
7-3/4"	1-1/4" nominal*	8-40"	196.85mm	31.75mm	203.20 - 1016.00mm
10-1/2"	1-1/4" nominal*	8-40"	266.70mm	31.75mm	203.20 - 1016.00mm



IMPERIAL			METRIC		
Height	Depth	Length	Height	Depth	Length
2-1/4"	1-1/4" nominal*	4-12"	57.15mm	31.75mm nominal*	101.60 - 304.80mm
5"	1-1/4" nominal*	4-12"	127.00mm	31.75mm nominal*	101.60 - 304.80mm
7-3/4"	1-1/4" nominal*	4-12"	196.85mm	31.75mm nominal*	101.60 - 304.80mm
10-1/2"	1-1/4" nominal*	4-12"	266.70mm	31.75mm nominal*	101.60 - 304.80mm

^{*}Nominal depth is indicated because of inherent variation in depth with a broken product. Depths will vary between 3/4" (19.05mm) to 1-1/4" (31.75mm). Corners include returns to mimic full-bed-depth products. Return depth on corners is between 3" (76.20mm) and 4" (101.60mm).





Notes

Berkshire™ is defined as "semi-dimensional" and is furnished in random lengths for job site fittings.

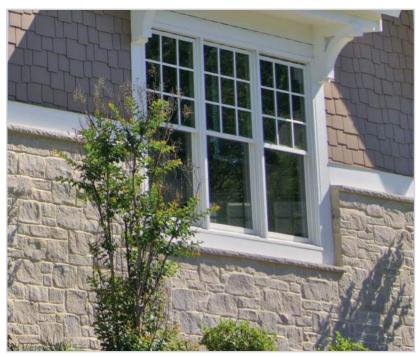
These products are used to the best advantage when the variations of grain and natural characteristics are allowed to complement the stone color and jointing pattern.

When Berkshire™ is used in a random or ashlar pattern, it is suggested that no vertical joint in the pattern be higher than the highest course height being used, no horizontal joint be more than three stones long, and that no stones the same height be placed end to end.

Refer to your price guide or contact Indiana Limestone for color, grade, and texture availability.

Sill Stock







Estate Veneer Series Sill Stock

Estate Veneer Series Sills add an accent band to any residential or commercial window project. Choosing Indiana Limestone sills add a timeless complement to your design. Available in both gray and full color blend, you can select between a smooth or rock face finish to match the architectural style you desire. Indiana Limestone sills are produced as a simple rectangular shape.

They are available in three standard course heights of 2-1/4", 3", and 4". We offer standard sill depths from 4-1/2" to 24". Each sill comes jointed to a standard length of 4', 6', or 8'. Estate Veneer Series Sills are offered with smooth edges or rock face along one long edge. A drip edge can also be added as needed.

Sill Stock

Sill Stock - Smooth or Rock Face 2-1/4", 3", and 4" (57.50mm, 76.20mm, and 101.60mm) Thick

IMPERIAL	METRIC
Depth	Depth
5"	101.60mm
6"	101.60mm
8"	101.60mm
10"	127.00mm
12"	127.00mm
14"	127.00mm
16"	304.80mm
18"	355.60mm
20"	406.40mm
24"	609.60mm

Length is available in 5" - 20" (127.00mm - 508.00mm) in 2" (50.80mm) increments.

Thin Sill Stock - Smooth or Rock Face 2-1/4" (57.50mm) Thick

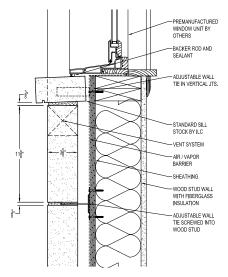
IMPERIAL			METRIC		
	Depth	Length	Depth	Length	
	3"	4'	406.40mm	2438.40mm	
	4"	4'	609.60mm	2438.40mm	

^{*}Indiana Limestone sill materials are also available with an optional drip edge in both smooth and rock face variants.





Diagram of Sill Installation



Notes

Indiana Limestone thin veneer sills are rapidly becoming a product of choice for use with all types of full bed and thin stone veneers. Our thin stone sills provide the prefect finishing touch for any thin stone veneer project. They provide a clean finish and can be used to add dimension and depth to your next project.

Refer to your price guide or contact Indiana Limestone for details on lengths, color, grade, and texture availability.

Estate Veneer Series - Full Bed Veneer

Specification and Technical Information

Delivery, Storage, and Handling

- Product will be supplied adequately packaged on pallets or timbers to keep finished stone clear of the ground.
- Storage area should be a well-drained space, graveled or chipped for protection against mud splatters.
- When using pry bars to move stone into place, use padding to protect the edges of the stone.
- Product should be unloaded and handled carefully to prevent breakage.
- Product should be handled carefully to avoid chips and scratches.

Cleaning

■ After mortar has set, the limestone should be brushed down with a stiff fiber brush, then carefully rinsed with clear water to remove any accumulation of stain or matter foreign to the limestone.

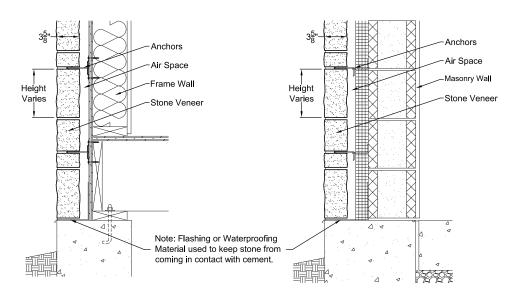
Protection of Base Courses and Unfinished Work

- To avoid possible unsightly stains caused by mud or other splashing, the ground at the base of the structure should be covered with protective material during construction. This should be left intact until landscaping is complete.
- During construction, tops of walls should be carefully protected to prevent rain, snow, or seepage from entering space between veneer and backing.

Anchors

■ Anchors should be attached securely to wood/metal framing or masonry backing. Use of stainless steel anchors is recommended. These ties should be spaced approximately 24" vertically and 18" horizontally.

Diagram of Full Bed Veneer Installation



Estate Veneer Series - Thin Veneer

Specification and Technical Information

Setting Stonework

- Stone shall be set in strict accordance with approved profile and jointing pattern. Joints shall be 3/8" wide for veneer and trim.
- Thin veneers can be applied over poured-in-place concrete, precast, tilt-up wall panels, CMUs, or over framed wood or metal stud walls with sheathing.

Refer to the Indiana Limestone Company Thin Veneer Installation Guide for details on use over multiple substrates.

Code Required Accessories

- Dependent on installation substrates and local code requirements, your installation will include some variant on:
- Corrosion resistant weep screeds, flashing, and weep vents
- Corrosion resistant casing beads
- Water/Air/Vapor Barrier within the wall assembly
- Drainage mats and furring strips

Lath and Lath Fasteners

- For natural stone adhered veneers, use a minimum of 3.4 lb/sq ft expanded metal galvanized diamond metal lath conforming to ASTM C1063-15.
- Use corrosion resistant fasteners that conform to ASTM1063.
- Fasteners must penetrate wood studs 1-1/4" minimum and 3/8" minimum on metal studs.

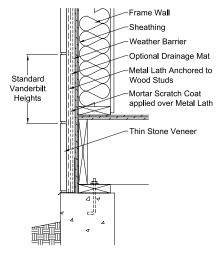
Refer to the Indiana Limestone Company Thin Veneer Installation Guide for additional details.

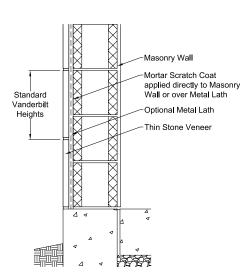
Mortar

■ Use polymer-modified, non-staining, sag-resistant Type S (ASTM C270) stone veneer mortar for both scratch coat and setting bed.

Refer to the Indiana Limestone Company Thin Veneer Installation Guide for additional installation guidance.

Diagram of Thin Veneer Installation







URBAN HARDSCAPES

Create your dream design.

An outdoor living space has unlimited uses and locations, including residential, commercial, private, and public.

Indiana Limestone is proud to introduce Urban Hardscapes products, a diverse and beautiful landscaping line designed with your future in mind. Urban Hardscapes will add a touch of reverent beauty to any landscaping dream you have. Cool to the touch and extremely versatile, Urban Hardscapes can be used for a vast array of outdoor projects.

Indiana Limestone fits YOUR style

Bridging traditional and contemporary styles, Urban Hardscapes products are crafted in our mills in Southern Indiana and serve a broad spectrum of applications.

Need something custom? The Indiana Limestone Company has a broad list of partner fabricators that can meet your needs.

APPLICATIONS

Look for these icons to help you understand where to best use Urban Hardscapes products in your next landscape project.



Walkways



Patios



Pools



Fire Pits



Stens



Walls



Columns



Mailboxes

SPECIALTY FINISHES



Specialty finishes can add drama and sophistication to your next natural stone project. Indiana Limestone is proud to offer three new stunning specialty finishes for pavers and treads. Each offers a distinct look and feel, combined with the unique natural beauty of Indiana Limestone.



Bush Hammer

A rough, pockmarked texture that resembles naturally weathered rock.



Sandblast or Abrasive

A smooth abrasion, which leaves the material with a slightly scratched (but not rugged) surface.



Wire Brush

Uses a coarse rotary wire brush that simulates natural wear over time.

PAVERS

Urban Hardscapes by Indiana Limestone Pavers offer the same striking surface textures that Indiana Limestone products are known for in paving stones for patios, walkways, and pool decks. Unlike other pavers, the color and composition of Indiana Limestone pavers will stay cool to the feet in the summer sun. Available in our original slab formats, new unit paving sizes, and on-trend plank sizes, we manufacture the broadest portfolio of standard Indiana Limestone pavers to help you design your vision.

APPLICATIONS







Walkways

kways Po

Patio



3-size modular pattern paving in the Modesto paver pattern.

Slab Pavers

Many patterns of our limestone pavers can be produced for you from our original 11 standard sizes. These sizes range from $12" \times 12"$ to $24" \times 36"$ and are available in the natural full color range of Indiana Limestone.



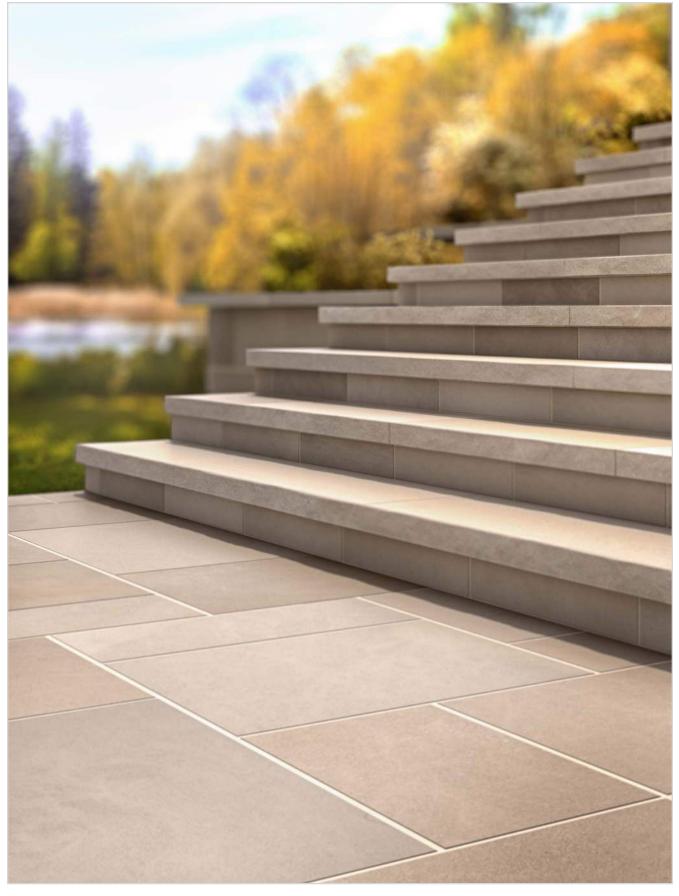
 $3\text{-}size\ modular\ pattern\ paving\ shown\ in\ the\ Highpoint\ paver\ pattern\ and\ Estate\ Veneer\ Series\ Berkshire^{\text{TM}}\ cladding\ and\ thin\ sills\ on\ home.$



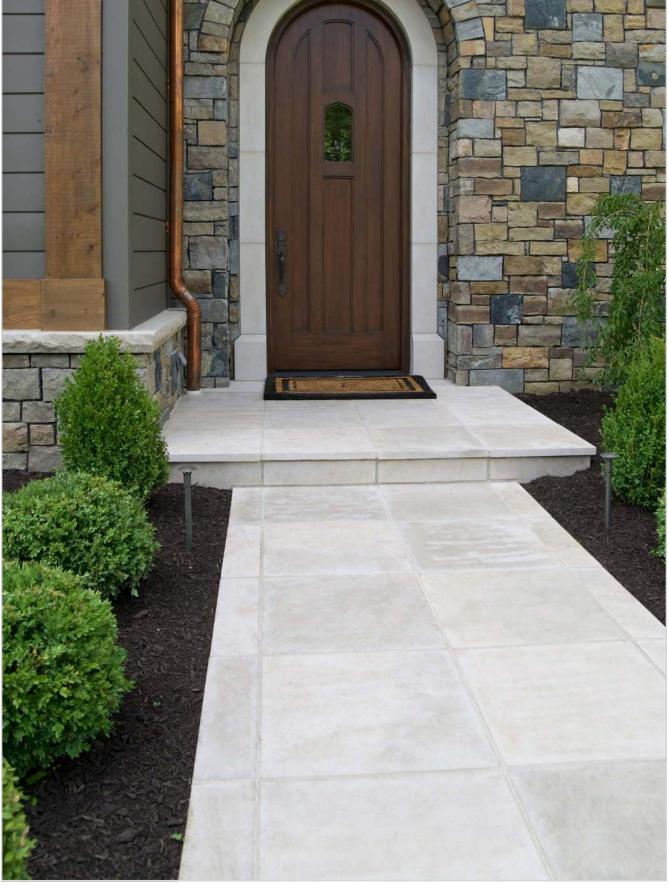
12" x 24" and 24" x 24" standard size pavers.



12" x 24" and 24" x 36" standard size pavers.



3-size modular pattern paving in the Modesto paver pattern and Vanderbilt Classic§ thin veneer with treads.



24" x 24" standard size pavers.

Small Format Pavers NEW

Small format Indiana Limestone pavers are a great fit for residential applications. Our popular pavers are now available at half the current scale, allowing you to design more appropriately for smaller spaces. The addition of nine new SKUs gives you the ability to combine large and small format sizes for maximum versatility. Easily integrated with our slab sized paver line and combined with other products from Urban Hardscapes, small format pavers echo the beauty of natural Indiana Limestone. The only limit is your imagination.



Small format pavers in the Lyon pattern (traditional French) with pool coping, smooth sills as wall caps, and 3" and 6" garden wall.



Small format pavers in the Lyon pattern with pool coping, wall caps, and Estate Veneer Series Berkshire™ thin veneer wall.



Small format pavers in the Lyon pattern with wall caps and 3" and 6"

Plank Pavers **NEW**

An on-trend, long-length, dimensional paving solution, Indiana Limestone plank pavers offer a contemporary look and feel. The versatility of our plank pavers allow landscape designers to work in a broader range of styles. Indiana Limestone plank pavers are available in three sizes and two thicknesses giving you enhanced designability and the ability to accommodate for different installation specifications.



Plank pavers in running bond pattern with pool coping.

PLANK PAVER PATTERNS



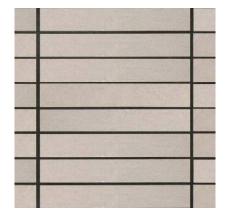
Running Bond Pattern

A pattern where the stone is set side by side, but instead of setting stone directly above each other, they are offset just slightly.



Herringbone Pattern

A pattern comprised of rows of parallel lines which in any two adjacent rows slope in opposite directions. The stone can be rectangles or parallelograms.



Stacked Bond Pattern

A pattern where the facing stone is laid with all vertical joints aligned.

Paving Patterns

CHOOSING A PATTERN

Indiana Limestone pavers can be installed in a multitude of different patterns and combinations. Keep it simple by selecting a pre-configured pattern from Urban Hardscapes. Design your own or keep it simple with our pattern pavers conveniently palletized with a mix of three sizes to accommodate even the smallest projects - now available in a new smaller format option. For more information, patterns, and inspiration, please visit www.IndianaLimestoneCompany.com.

MODULAR 3-PIECE PATTERNS

Modesto



Highpoint



Chesapeake



Design Your Own Patterns With Our Standard Sizes

Design inspiration can come from many places. Whether it's from a picture or visiting a home and garden show, knowing how to create your own patterns with standard sizes is essential in helping to make your design vision come to life.

Determining the Ratios

If your paving doesn't come in the sizes of the pattern by which your customer is inspired - re-design it with standard sizes. Take the smallest square in the pattern as a base unit size, and create ratios to all of the other sizes (how many of the small unit it would take to make the other sizes). Then, apply this logic to all of the sizes in the pattern. In a typical French pattern, the smallest size is $8" \times 8"$ - all other sizes are based on multiples of 8".

- An 8"x 8" paver would be 1 Unit by 1 Unit in that example.
- \bullet Another size in that pattern is 16" x 24" which would be 2 Units by 3 Units.

Selecting the Right Sized Paving to Make the Pattern

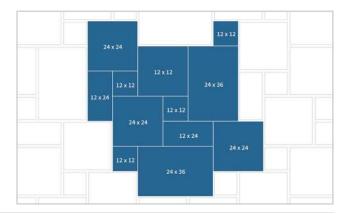
As long as the pavers you select have sizes available in the same ratio - you can achieve the same aesthetic with other sized products. The natural stone option referenced above can be used to lay the same pattern, but in a larger format.

Example:

- Dimension: 11-5/8" x 23-5/8", Ratio: 1/2 Unit by 1 Unit
- Dimension: 23-5/8" x 23-5/8", Ratio: 1 Unit by 1 Unit
- Dimension: 23-5/8" x 35-5/8", Ratio: 1 Unit by 1-1/2 Units

Broader Application

Knowing these basic principles - you can apply them to any pattern. Below is a traditional French pattern that has been scaled up to accommodate larger format pavers. Converting the smallest size to $12'' \times 12''$ and using multiples of twelve delivers the same pattern and overall aesthetic in a larger format.



Pavers

Pattern Pavers 1-1/2" (38.10mm)

IMPERIAL				
Width	Length	Width	Length	Qty.
12"	24"	304.80mm	609.60mm	12
24"	24"	609.60mm	609.60mm	12
36"	24"	914.40mm	609.60mm	12

Small Pattern Pavers 1-1/2" (38.10mm)

IMPERIAL METRIC				
Width	Length	Width	Length	Qty.
6"	12"	152.40mm	304.80mm	48
12"	12"	304.80mm	304.80mm	48
12"	18"	304.80mm	457.20mm	48

Standard Pavers 1-1/2" and 2" (38.10mm and 50.8mm)

IMPERIAL			
Width	Length	Width	Length
12"	12"	304.80mm	304.80mm
12"	18"	304.80mm	457.20mm
12"	24"	304.80mm	609.60mm
12"	36"	304.80mm	914.40mm
18"	18"	457.20mm	457.20mm
18"	24"	457.20mm	609.60mm
18"	30"	457.20mm	762.00mm
18"	36"	457.20mm	914.40mm
24"	24"	609.60mm	609.60mm
24"	30"	609.60mm	762.00mm
24"	36"	609.60mm	914.40mm

Small Format Pavers 1-1/2" (38.10mm)

IMPERIAL		METRIC	
Width	Length	Width	Length
6"	6"	152.40mm	304.80mm
6"	9"	152.40mm	228.60mm
6"	12"	152.40mm	304.80mm
6"	15"	152.40mm	381.00mm
6"	18"	152.40mm	457.20mm
9"	9"	228.60mm	228.60mm
9"	12"	228.60mm	304.80mm
9"	15"	228.60mm	381.00mm
9"	18"	228.60mm	457.20mm



Plank Paving 1-1/2" and 3-5/8" (38.10mm and 92.08mm)

IMPERIAL		METRIC		
Width	Length	Width	Length	
4"	12"	92.06mm	304.80mm	
4"	16"	92.06mm	406.40mm	
4"	24"	92.06mm	609.60mm	

*Please note that thickness indicated (depth) is the actual thickness where length and width are nominal thicknesses. All of our paving is designed to feature a 3/8" joint line. Actual dimensions of a 12" x 12" (304.80mm x 304.80mm) nominal paver are 11-5/8" x 11-5/8" (295.28mm x 295.28mm).

Notes

Refer to your price guide or contact Indiana Limestone for color, grade, and texture availability

Urban Hardscapes by Indiana Limestone Pavers

Installation and Technical Information

Installation

Indiana Limestone pavers can be set in mortar or over compacted aggregate. The following installation methodologies have been tested for use in residential, pedestrian applications only. Installation details may need to be modified for commercial applications, to conform to local building regulations or use alternative and locally available aggregate materials. Consult with a landscape architect, installation professional, or engineer regarding your commercial projects or if specified installation materials are not available in your area.

General Guidelines

Prior to Excavation

Always be sure to call any local utilities to ensure your work area is clear of any underground cables or wires before you dig. Consult with local utilities about options for moving services, if necessary.

Dampproofing the Stone

A cementitious based dampproofing should be applied to the backs and all unexposed sides of the stones to protect the stones from moisture sources and prevent staining.

Protection of Unfinished Work

To avoid possible unsightly stains caused by mud or other splashing, unfinished work can be covered with protective material during construction. If utilized, this should be left intact until landscaping is complete.

Delivery, Storage, and Handling

Product will be supplied adequately packaged on pallets or timbers to keep finished stone clear of the ground. Storage area should be a well-drained space, graveled or chipped for protection against mud splatters. When using pry bars to move stone into place, use padding to protect the edges of the stone.

Notes on Indiana Limestone Material: Indiana Limestone is a natural stone with color variations within the deposit. If you are installing multiple pallets of material on the job (same or different sizes) it is important to pull material from multiple pallets to ensure the optimal color mix.

Polymeric sands should NEVER be used with Indiana Limestone paving materials. Indiana Limestone, by nature, is a more porous natural stone. Binding polymers from polymeric sands (even those noted as non-staining and safe for natural stones) have been shown to leech into the stone and cause discoloration that cannot be repaired or removed and will not weather out over time.

Setting over Mortar Setting Bed

Use of Type N Masonry Cement is highly recommended for the setting bed cement mix. White Cement does not contain the chemicals that can cause unsightly staining when activated by water. Typical fine sand will be adequate for the cement mix. A setting bed depth of 1" to 1-1/2" is recommended.

Concrete Slab

The concrete slab should be cured; 30 days of curing would be ideal.

Grouting of Joints

Grouting or pointing of the joints can be done with the same Type N White Masonry Cement (mixed with White Sand to allow for accurate coloring).

Cleaning

After mortar has set, the pavers should be brushed down with a stiff fiber brush, and then carefully rinsed with clear water to remove any accumulation of stain or matter foreign to the limestone.

Setting over a Compacted Base Drainage, Grade, and Base Preparation

When excavating it is important to achieve a slope in increments of 1.5% (3/16" per ft./5mm per 300mm). Excavation should mirror the final grade of the pavement. Grading or soil for drainage should be away from a home's foundation.

If the soil is granular or sandy, it should be compacted with a vibrating plate. Modify clay-like soil with a blend of lime and crushed stone prior to compaction. Cover compacted soil base with a geotextile fabric to prevent the contamination of the base with the crushed stone base.

Standard "Sand Set" Foundation

Install a 0-3/4" (0-20mm or No. 78 stone) base in 4" lifts with a minimum of 5,000 lbf (22 kN) vibrating plate compactor to a height adequate for your base soil type.

- For Clayey or Silty soil make the foundation 6" to 8" of material.
- For Sandy or Gravelly solid, make the foundation 4" to 6" of material.
- The base should extend beyond the finished edge of the design by an extra width equal to the foundation thickness.

Urban Hardscapes by Indiana Limestone Pavers

Installation and Technical Information

For compacting, wet the base material thoroughly and compact with a vibrating plate in all directions. Continue this until you have achieved the desired height. Use a paver as reference. The base tolerance should be +/- 3/8" for every 10' increment.

Setting Bed

Use a 1" layer of concrete sand as your setting base. Be sure to grade the concrete sand with a straight-edge or by other means. A non-graded subsurface will be evident after installation. Do not compact the bedding sand before pavers are set.

Installation of Pavers

Install pavers on to the setting bed in the shape dictated by the design or pattern required with 3/8" spacing between paver edges. Walk on paving stones while installing them to ensure they stay level when foot pressure is applied. If pavers wobble or are out-of-plane with the surface, remove the paving unit and add additional sand to level.

Paving stones on the edge of a design can be cut using an angle grinder fitted with a masonry blade or a concrete saw. Ensure that the blade used on an angle grinder has sufficient depth-of-cut for your application.

Utilizing a polymer landscape edging is optional but will aid in retaining shape of paved walkways and patio areas. A variety of edging is available. Spikes for the edge restraints must be installed into the compacted foundation and not the soil.

Filling in Joints

Select your material for fill between stones. Concrete sand is sufficient, decomposed granite is also an option. If using decomposed granite – do not use decomposed granites with resins or stabilizers.

Reminder: Indiana Limestone does not recommend the use of polymeric sand with our paving products based on understanding of current products. New products are brought to market consistently - refer to manufacturers recommendations and test compatibility before completing a project installation.

Spread out your selected fill material and sweep in between joints in all directions.

Sweep once more and remove excess sand or decomposed granite.

GARDEN STEPPERS

Urban Hardscapes by Indiana Limestone Garden Steppers lend a sense of weight and permanence by creating step elements from single pieces of Indiana Limestone. Our steppers add an inviting touch to any landscaping area.

APPLICATIONS





Step

Pati



Garden steppers with Highpoint paver pattern.

Popular Sizing

Urban Hardscapes by Indiana Limestone Garden Steppers come standard with a split front, back, and ends, and sawn top and bottom. Each step is 6" tall and 16" wide, and is available in lengths of 3', 4', and 5'.



Garden stepper: split front, back, and ends with sawn top and bottom.

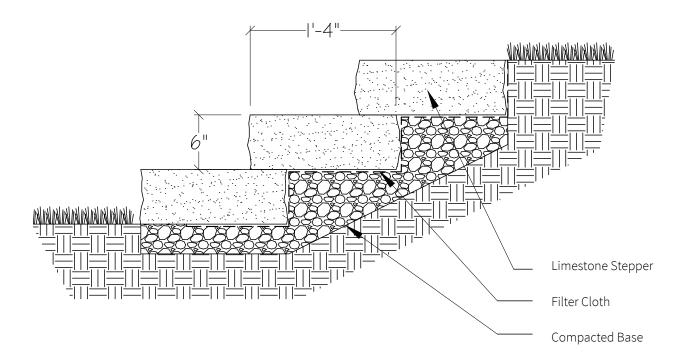
Garden Steppers

IMPERIAL		METRIC			
Height	Depth	Length	Height	Depth	Length
6"	16"	36"	152.40mm	406.40mm	914.40mm
6"	16"	48"	152.40mm	406.40mm	1219.20mm
6"	16"	60"	152.40mm	406.40mm	1524.00mm



Diagram of Garden Steppers Installation

Notes



GARDEN WALL

Urban Hardscapes by Indiana Limestone Garden Wall can add depth to any space. A dry-stacked, non-retaining product, it is perfect for shallow floral beds and landscaping elements. Available in 3" and 6" heights, it is cut on-site to achieve a broad variety of looks. Use the 6" height in a bonded pattern for a more massive, monolithic look. Use 3" height in longer lengths for a more contemporary look.

APPLICATIONS







Walls

Pat

Mailboxes



3"and 6" ashlar pattern with a rock face wall cap.



3"and 6"ashlar pattern for a more dynamic look.



6" height in a bonded pattern for a more massive, monolithic look.



3" height in longer lengths for a more contemporary look.

Garden Wall

IMPERIAL				METRIC		
	Height	Depth	Length	Height	Depth	Length
	3"	8"	Random	76.20mm	203.20mm	Random
	6"	8"	Random	152.40mm	203.20mm	Random

Please note that garden wall is supplied in random lengths, but nominally at approximately 41" (1041.40mm) long. This product is sold by weight and is supplied stacked on the pallet with front and back broken faces. Ends may be broken or belt sawn.



Notes

3" garden wall

TREADS

Urban Hardscapes by Indiana Limestone Treads are a mainstay for stone step treads across North America. Indiana Limestone has been used extensively as step treads, mantels, hearths, and copings. All are available in a standard thickness 2" and 2-1/4", a 12" depth, and in lengths from 3' to 8'.

APPLICATIONS







Walkways



Vanderbilt Classic® thin veneer with treads.



2" treads in lengths of 4'.

Treads

Treads - 2" and 2-1/4" (50.8mm and 57.15mm)

IMPERIAL	METRIC

Depth	Length	Depth	Length
12"	4'	304.80mm	1219.20mm
12"	5'	304.80mm	1524.00mm
12"	6'	304.80mm	1828.80mm
12"	7'	304.80mm	2133.60mm
12"	8'	304.80mm	2438.40mm

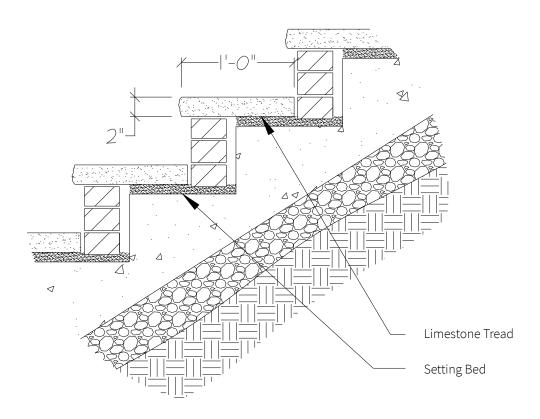
2" tread lengths are nominal lengths. 2" treads are actually 1" longer than stated to accommodate for applications where the sawn edge is exposed and needs to be field dressed or hand pitched.



Diagram of Tread Installation

Notes

Refer to your price guide or contact Indiana Limestone for color, grade, and texture availability. Treads can be made with a pitched, rock face facing edge, or a smooth edge 2-1/4" thickness only. Sides and back are sawn.



PIER CAPS

Urban Hardscapes by Indiana Limestone Pier Caps are the perfect finish for your vertical application projects. Available in a wide range of sizes with smooth or pitched edges, our pier caps fit whatever you have in mind. They are available in 2-1/4" and 3" thicknesses.

APPLICATIONS







Columns

Walls

Mailboxes



Rock face pier cap.



Rock face pier cap.



Square edge pier cap.

Pier Caps

Square Edge or Rock Face - 2-1/4" and 3"(57.15mm and 76.20mm)

IMPERIAL			
Depth	Width	Depth	Length
16"	16"	406.40mm	406.40mm
18"	18"	457.20mm	457.20mm
20"	20"	508.00mm	508.00mm
22"	22"	558.80mm	558.80mm
24"	24"	609.60mm	609.60mm
26"	26"	660.40mm	660.40mm
28"	28"	711.20mm	711.20mm
30"	30" 762.00mm		762.00mm



Square Edge



Notes

WALL CAPS

Urban Hardscapes by Indiana Limestone Wall Caps are the ideal choice for a unique accent piece for your garden or retaining wall that will stand the test of time. Wall caps provide a strong finishing touch to any of your brick or stone wall designs. Architecturally versatile, they are available in 2-1/4" and 3" thicknesses.

APPLICATIONS





Walls



Columns



Rock face wall cap.



Sill used as a smooth edge wall cap.



Rock face wall cap.

Wall Caps

Wall Caps - 2-1/4" and 3" (57.15mm and 76.20mm)

	IMPERIAL				
Depth Length 12" 47-5/8" 14" 47-5/8"		Length	Depth	Length	
		47-5/8"	304.80mm	1209.67mm	
		355.60mm	1209.67mm		

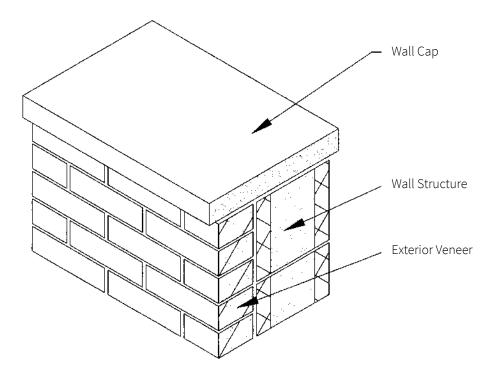
Please note that square edge wall caps shown in photography are actually Indiana Limestone Company sill stock material. Refer to that section of the product guide and pricing guide for size and color availability.



Standard wall cap, Rock face 2-sides

Diagram of Wall Caps Installation

Notes



POOL COPING



When you want a beautiful and long-lasting poolscape, look no further than Urban Hardscapes by Indiana Limestone Pool Coping. Our coping offers a unique set of properties that keep it cool to the touch even in direct sunlight, which makes our pool coping desirable when your family is barefoot enjoying the summer.

APPLICATIONS







Pools

Patios

Ste



Pool coping with standard format pavers.



Pool coping with standard format pavers.



Pool coping with small format pavers.

Pool Coping

IMPERIAL		METRIC			
Height	Depth	Length	Height	Depth	Length
2-1/4"	13-1/8"	48"	57.15mm	333.38mm	1219.20mm

Our pool coping is a nominal 12" to the arris line (transition the bullnose at the front of the unit).



Notes

BOULDERS

Urban Hardscapes by Indiana Limestone Boulders add a strong accent to any landscape design. Often used to delineate spatial elements, Indiana Limestone boulders offer an opportunity for material continuity in accents, as well as designed elements.

APPLICATIONS







Patios

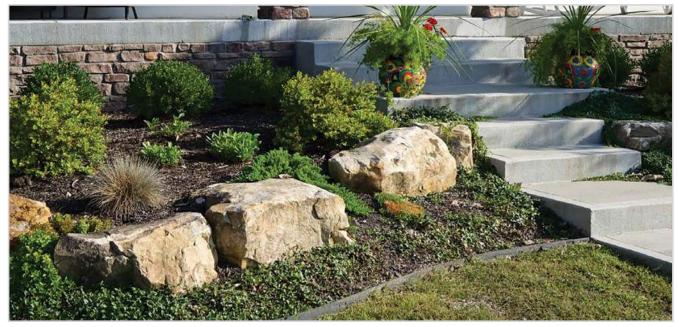
Walkways

Fire Pits

Indiana Limestone boulders are natural stone from our quarries, and vary as a natural material. While images are representative we cannot guarantee that boulders feature weathering, moss elements, quarry drill marks, etc.



Large sized boulder.



Varied boulder sizes available for large or small scale design elements.

BENCHES



Our Urban Hardscapes by Indiana Limestone Benches add an additional appealing component to any landscaping project. These timeless pieces are constructed from a split face top slab with split face legs, both include a sawn finish top and bottom. Pair it with other Urban Hardscapes products, including our patterned pavers, to create a residential or commercial sanctuary!

APPLICATIONS







Patios

ios Walkways

Fire Pits





Notes





BLOCKS & SLABS

For over a century, Indiana Limestone Company has been a leading supplier of the world's finest limestone to fabricators of all sizes. For consistent high quality and immediate delivery, turn to Indiana Limestone Company for select blocks and slabs. Discover more about the benefits at IndianaLimestoneCompany.com.

Indiana Limestone Blocks and Slabs

Indiana Limestone Company provides you with the most consistent, high quality, select Indiana Limestone blocks in the widest range of sizes, colors, and grades for immediate delivery.

Benefits

As a customer, you can count on these outstanding benefits when ordering your raw material from Indiana Limestone Company:

- Immediate availability of inventory on Indiana Limestone block orders.
- Huge inventory of Indiana Limestone available in all grades and colors. A reliable supply of over 10,000 blocks on 90 acres.
- Consistent quality of our Indiana Limestone from 4,500 acres of reserves.
- Marketing materials that support the quality of Indiana Limestone to your end customer.
- New Microsoft Dynamix ERP with computerized block and slab inventory database

Color

Buff: Traditional buff color ranging from cream to light brown with some veining and grain movement visible in the face and fine to medium grained stone.

Silver Buff: Clean buff color with subtle silver colored veining in the foreground and fine to medium grained stone.

Rustic Buff: Traditional buff color ranging from cream to light brown with visible veining in the face and medium to coarse grained stone.

Full Color Blend: A natural compilation of the full range of buff to medium gray shades with the same great subtle veining. All of our full color blend is standard grade.

Gray: Light to medium shades of gray with some veining and grain movement visible in the face and fine to medium grained stone.

Old Gothic: Wide variation of grain density and movement from piece to piece. Within the piece, visible shells, frequent voids and pits (pea to penny size, sometimes larger), some rust, pronounced calcium beds and veining.

Mavise Stone: Contains the characteristics and structural integrity of a high-density material with a unique colorization.

Grade

Select: Fine grained stone having a controlled minimum of inclusions and veining.

Standard: Average to large grained stone permitting an average amount of inclusions and veining.

Rustic: Large to coarse grained stone permitting an above average amount of inclusions and veining.

Please Note:

- Full color blend material is always standard grade unless otherwise noted.
- Mavise is not a graded material.
- Slabs come with a belt sawn finish only.



Mavise Stone

MAVISE

A unique opportunity to own a limited part of North American history.

Discovered in a small 8-acre section in our Victor Quarry, Mavise Stone will take your interior design to the next level with stunning, unique natural stone material. The strong, clean look of real limestone is ideal for your upscale commercial or fine residential design.

Mavise Stone can be manufactured in standard sizes or custom fabricated into a one-of-a-kind product for interior finishes in both vertical and horizontal applications. Indiana Limestone Company Mavise Stone contains the characteristics and structural integrity of a high-density material with a unique colorization. Its rich texture makes it the perfect material for flooring, countertops, or cladding options that will turn heads.

Because it is so rare, Mavise Stone will only be available for a limited time.







Lightweight Limestone Panel System

Presenting the Lightweight Limestone Panel System

By bonding a veneer of our distinctive natural material to an advanced honeycomb backing, our Lightweight Limestone Panel System offers cutting-edge possibilities for building, engineering, and architecture.



An Iconic Building Material Enters a New Era of Design.

The unique natural character of Indiana Limestone. Now in a modular panel designed for your current building challenges.

Substantially lighter.

Lightweight limestone panels weigh in at 80% less than solid slabs, which translates to a vastly lighter load - on structures, labor crews, and equipment costs.

Significantly stronger.

Lightweight panels boast 60 times more impact-resistance than the solid slabs from which they are produced. Plus, they deliver enhanced flexural strength and stand up to extreme freeze-thaw cycles.

Intelligently modular.

The predesigned panels are available in standard-sized units, don't require a complex layout, and install easily. It's yet another option to make your Indiana Limestone vision a reality.

Visit LightLimestone.com for more information.



SPECIFICATION & TECHNICAL INFORMATION

Indiana Limestone is a desirable choice for masons, installers, and contractors for residential, commercial, and institutional projects. If you need an installation detail, please contact your Regional Sales Manager IndianaLimestoneCompany.com.

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Indiana Limestone

Specification and Technical Information

Properties of Indiana Limestone

Most building designs that incorporate Indiana Limestone consider these properties:

Ultimate compressive strength of dry specimens Value: 4,000 psi min.* Test STD: ASTM C170

Modulus of rupture of dry specimens

Value: 700 psi min.** Test STD: ASTM C99

Absorption

Value: 7.5 % max. Test STD: ASTM C97

*Most Indiana Limestone products indicate min. values in excess of 4,000 psi, but this value is listed as an engineering reference.

**Wind load and other bending forces are typically calculated at 1,000 psi for modulus of rupture.

NOTE: All Indiana Limestone meets or exceeds the strength requirements set forth in ASTM C568 for Type II Dimension Limestone.

Abrasion Resistance

When used in flooring, paving, or steps, the abrasion resistance should be specified.

Value Range: (Abrasive Hardness) 6 min. to 17 max.† Test STD: ASTM C241

†Stone preparation and installation details are important in assuring hardness of 8 for heavy traffic areas. Specify abrasive hardness of 6 for light traffic areas such as patios, plazas, and wide sidewalks.

Dampproofing

- Where limestone is to be used at or below grade, dampproofing must be applied.
- Dampproofing the face of backup or structural concrete is helpful, but is not a substitute for back painting the stone.
- In cases where limestone is to be covered by soil or paving at grade and where the stones will present an evaporation surface above grade, the dampproofing must be carried up the partially exposed face at least to grade level.
- Indiana Limestone Company recommends a cementitious based waterproof coating.

Delivery, Storage, and Handling

- Product will be supplied adequately packaged on pallets or timbers to keep finished stone clear of the ground.
- Storage area should be a well-drained space, graveled or chipped for protection against mud splatters.
- When using pry bars to move stone into place, use padding to protect the edges of the stone.
- Product should be unloaded and handled carefully to prevent breakage.
- Product should be handled carefully to avoid chips and scratches.

Protection of Unfinished Work

- To avoid possible unsightly stains caused from dirt or other construction materials residue, the limestone should be covered with protective material during construction. This material should be left intact until the finishing of any surrounding work.
- During construction, limestone should be carefully protected to prevent rain, snow, or seepage from entering space between keystones and backing.

Cleaning

After mortar has set, the limestone should be brushed down with a stiff fiber brush, then carefully rinsed with clear water to remove any accumulation of stain or matter foreign to the limestone

Finished Goods Packaging



Vanderbilt Classic® Thin Veneer Flats



Berkshire™ Packaging



Vanderbilt Classic® Thin Veneer Corner Pieces



Rockford Estate Blend® Packaging



Vanderbilt Classic® Packaging



Thin Veneer Small Pallet



Sill Stock



Thin Veneer Large Pallet



Pier Caps Packaging



Garden Steppers Packaging



Wall Caps Packaging



Pavers Packaging

Custom Fabrication

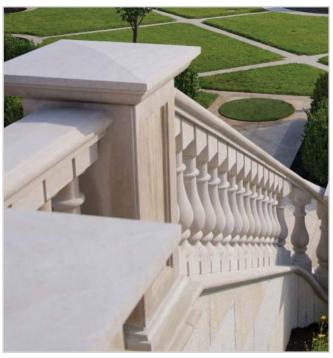
Our comprehensive portfolio of finished goods can meet your complete project requirements in many cases. When it does not, we can refer you to a custom fabrication partner or help your preferred stone fabricator understand how easy it is to work with Indiana Limestone. Contact our sales staff for a project review and consultation.



Custom residential fabrication



Commercial needs met with Indiana Limestone.



Custom pier caps and wall caps.



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www. In diana Limestone Company. com