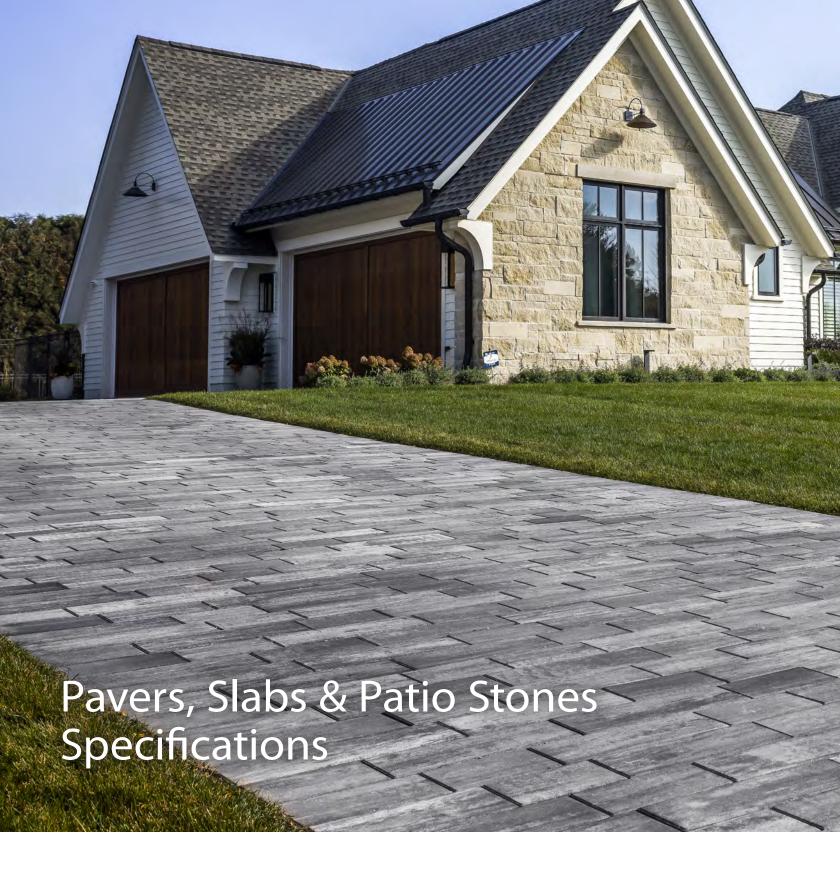


Landscape Products Specifications Guide

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County Materials Crafts Paver Lines to Offer Boundless Design Options and Ready Availability

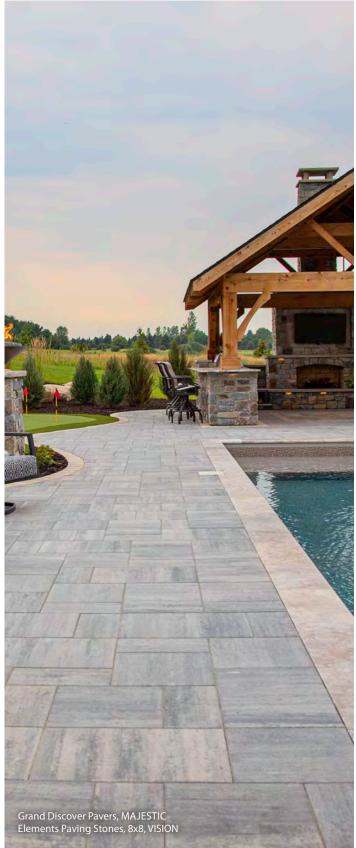
Dimensionally Compatible Pavers Offer Limitless Design Potential

County Materials designed a series of dimensionally compatible pavers to help hardscape professionals and homeowners achieve their desired designs. These readily available concrete pavers can be integrated together effortlessly to enhance installation efficiency when using several colors, sizes, and textures in a single design.

Our dimensionally compatible paver series are crafted in four-inch increments. Designed to make a statement on their own or when combined, these pavers offer limitless design potential.

This expansive series includes Grand Vantage, Vantage, Grand Discover XL, Grand Discover, Discover, Grand Tranquility, Grand Fusion, and Elements pavers. Additionally, each of these paver lines can be manufactured with Glow Path Technology™.



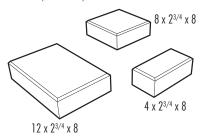


Our dimensionally compatible paver series are crafted in four-inch increments.

VANTAGE PAVERS® SIZES

D x H x L (Inches)

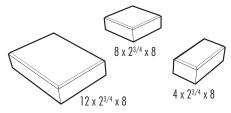
Each pallet layer includes all sizes.



DISCOVER PAVERS® SIZES

D x H x L (Inches)

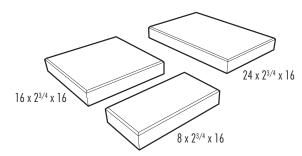
Each pallet layer includes all sizes.



Grand TRANQUILITY PAVERS® SIZES

 $D \times H \times L$ (Inches)

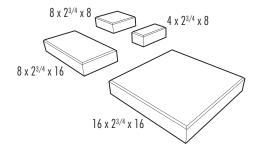
Each pallet layer includes all sizes.



ELEMENTS™ PAVING STONES SIZES

D x H x L (Inches)

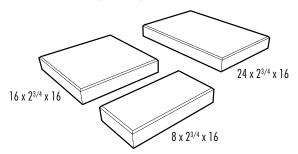
Each size is sold on individual pallets.



Grand VANTAGE PAVERS® SIZES

D x H x L (Inches)

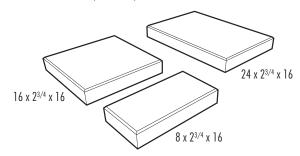
Each pallet layer includes all sizes.



Grand DISCOVER PAVERS® SIZES

D x H x L (Inches)

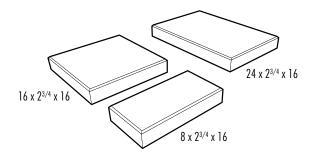
Each pallet layer includes all sizes.



Grand FUSION PAVERS™ SIZES

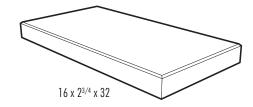
D x H x L (Inches)

Each pallet layer includes all sizes.



Grand XL DISCOVER PAVERS® SIZE

D x H x L (Inches)



Installation Guidelines – INTERLOCKING CONCRETE PAVERS

County Materials provides general construction guidelines to design professionals and installers of interlocking concrete pavers. For additional installation information, reference the Interlocking Concrete Pavement Institute's (ICPI) Tech Spec Technical Bulletins.

Excavation

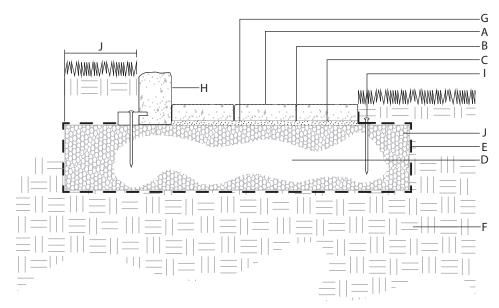
- A) Before excavating, call all local utility companies (e.g., phone, gas, electrical) to ensure the area in which you plan to dig is clear of underground utilities.
- B) When excavating, it is important to achieve a slope in increments of 1.5% (3/16" per ft./5 mm per 300 mm), which will allow for proper drainage. The excavation should mirror the final grade of pavement.
- C) The width of your base behind your edge should be equivalent to the thickness of the base.
- D) Grade the bottom of your excavated area. If the natural soil is granular or sandy, the industry recommends you compact the soil with a vibrating plate. If the soil is clay-like, change the soil with a blend of lime and crushed stone prior to compaction. Next, cover it with a layer of geotextile fabric to prevent the contamination of your base (clay and 0-3/4" [0-20 mm] crushed stone).

Base Material

- A) Install your 0-3/4" (0-20 mm) crushed stone base, in 4" (100 mm) lifts with a (minimum 5000 lbs [22 kN]vibrating plate) compactor.
- B) To facilitate compacting, wet your base material thoroughly and compact with a vibrating plate proceeding in all directions. Continue this process until you achieve your desired height. At this stage, you can verify your final height with the help of a paver.
- C) Base tolerance $\pm 3/8''$ (10 mm) for every 10' (3-m) increment.

The Setting Bed

- A) On your compacted crushed base, install two pipes (outside diameter of 1" (25 mm). Grade the concrete sand with the help of a straight edge. If the base isn't properly graded and smooth, imperfections will be evident in the finishing grade of the pavement.
- B) Bedding sand should not be compacted until all paving stones have been laid down. Passing the vibrating plate over your paving stones causes them to settle approximately 3/8" (10 mm) into your bedding sand.



INTERLOCKING CONCRETE PAVEMENT INSTALLATION

Typical cross section

- A County Materials Concrete Paving Stones (ASTM C936). Paver surface pitch for positive drainage (minimum 2%. 1/4"/ft, [6mm/300mm])
- B Sand joint material (ASTM C144)
- C Sand setting bed: 1" (25mm) before compaction (ASTM C33)
- D Base stone depth varies with soil type, climate, load and water table
- E Geotextiles
- F Subgrade soil; classified and properly graded
- **G** Geotextile strip to prevent downward sand migration
- **H** Edge restraint
- I Edge restraint (PVC, aluminum) anchored to base stone
- J Base stone extends beyond edge of pavement to a minimum of 6" (150 mm) or equal to depth of base stone

Mock-Up Sample Units

Before project installation begins, construct a separate mock-up sample panel of not less than 7 feet by 7 feet with units in the pattern, type, color, finish and shape specified. This sample panel must be completed for evaluation of surface preparation techniques, application workmanship, as well as the application methods for any jointing materials, and cleaning and sealing agents.

Installation of Paving Stones

- A) Once the choice of paving stones and the design has been finalized, it is recommended that you start installing your pavers at a 90-degree angle. This is realized by proceeding as follows: measure a first horizontal line 3' (1-m), and a second line of 4' (1.2 m) perpendicular to the first. You then connect a third straight line of 5' (1.5 m) which will form a triangle, and the result will be a perfect 90-degree angle. While installing your paving stones, walk on the installed pavers, and fill in gaps caused by the pipes with concrete sand.
- B) Because concrete units are manufactured with high quality, naturally-mined aggregates and materials, variations in color or shading should be expected in products that are manufactured at different times and in units having different shapes. This color or shading variation is acceptable in the industry.
 - The contractor must install concrete units in accordance with the landscaping industry's best practices, according to ICPI standard specifications, and the manufacturer's instructions. Install units from several pallets to ensure distribution of color. County Materials is not liable or responsible for loss or damage resulting from improper storage, handling, maintaining the products or failure to follow installation instructions. Follow recommended warnings, advisories and instructions.
- C) You may use a chalk line to mark the stones to be cut along the borders, after which you can then cut using a guillotine or a concrete saw. When cutting paving stones, always wear personal protective equipment.
- D) Once you finish installing your paving stones, you can then install the specified edge restraint. In a vehicular traffic application, the concrete must be reinforced using steel rods.

Installation Guidelines – CONCRETE SLABS

County Materials provides general construction guidelines to design professionals and installers of concrete slabs. For additional installation information, reference the Interlocking Concrete Pavement Institute's (ICPI) Tech Spec Technical Bulletins.

Excavation

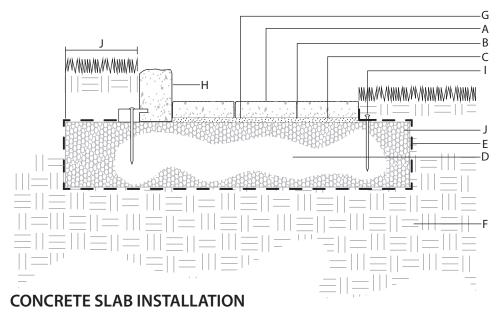
- A) Before excavating, call all local utility companies (e.g., phone, gas, electrical) to ensure that the area in which you plan to dig is clear of underground cables or wires. If any are found, please notify the appropriate companies before you continue.
- B) When excavating, it is important to achieve a slope in increments of 3/16" per ft. (5 mm per 300 mm) which will allow for proper drainage. The excavation should mirror final grade of pavement.
- C) The width of your base behind your edge should be equivalent to the thickness of the base.
- D) Grade the bottom of your excavated area. If the natural soil is granular or sandy, the industry recommends you compact the soil with a vibrating plate. If the soil is clay-like, change the soil with a blend of lime and crushed stone prior to compaction. Next, cover it with a layer of geotextile membrane to prevent the contamination of your base (clay and 0-3/4" [0-20 mm] crushed stone).

Base Material

- A) Install your 0-3/4" (0-20 mm) crushed stone base, in 4" (100 mm) lifts with a (minimum 5000 lbs [22 kN]vibrating plate) compactor.
- B) To facilitate compacting, wet your base material thoroughly and compact with a vibrating plate proceeding in all directions. Continue this process until you achieve your desired height. At this stage, you can verify your final height with the help of a paver.
- C) Base tolerance $\pm 3/8''$ (10 mm) for every 10' (3-m) increment.

The Setting Bed

- A) On your compacted crushed base, install two pipes (outside diameter of 1"(25 mm). Grade the concrete sand with the help of a straight edge. If the base isn't properly graded and smooth, imperfections will be evident in the finishing grade of the pavement.
- B) Once the setting bed is graded, pre-compact with a hand tamper, then lightly fluff.



Typical cross section

- A County Materials Concrete Slabs.Paver surface pitch for positive drainage (minimum 2%. 1/4"/ft, [6mm/300mm])
- **B** Sand joint material (ASTM C144)
- C Sand setting bed: 1" (25mm) (ASTM C33)
- D Base stone depth varies with soil type, climate, load and water table
- **E** Geotextiles
- F Subgrade soil; classified and properly graded
- **G** Geotextile strip to prevent downward sand migration
- H Edge restraint
- I Edge restraint
- J Base stone extends beyond edge of pavement to a minimum of 6" (150 mm) or equal to depth of base stone

Installation of Slabs

- A) Once the choice of slabs and the design has been finalized, it is recommended you start installing your slabs at a 90-degree angle. To obtain a 90-degree angle you should use the rule of a 3/4/5-triangle. This is realized by proceeding as follows: measure a first horizontal line of 3'(1-m), and a second line of 4'(1.2 m) perpendicular to the first. You then connect a third straight line of 5'(1.5 m) which will form a triangle, and the result will be a perfect 90-degree angle. While installing your slabs, walk on the installed slabs, and fill in gaps caused by the pipes with concrete sand.
- B) Color of concrete products may vary significantly between production lots. Install concrete slabs from several pallets to ensure distribution of color. Furthermore, you should proceed with the cubes from top to bottom.
- C) You may use a chalk line to mark the stones to be cut along the borders, after which you can then cut using a concrete saw. When cutting slabs, always wear personal protective equipment, including protective ear and eye wear.
- D) Once you finish installing your slabs, you can install the specified edge restraint.

Care & Maintenance – INTERLOCKING CONCRETE PAVERS & SLABS

Color Selection

Colors shown may vary from actual hues and should only be used as a guide. Refer to actual product samples for final color selection. Because concrete products are manufactured with high quality, naturally-mined aggregates and materials, variations in color or shading should be expected in products that are manufactured at different times and in units having different shapes. This color or shading variation is acceptable in the industry. County Materials recommends immediately verifying the product and color upon receipt, and prior to opening pallets. For any discrepancies, contact your local County Materials representative before installation. Use of product constitutes acceptance.

Proper Color Distribution and Installation Techniques

Color of concrete products may vary significantly between production lots. Install concrete units from several pallets to ensure distribution of color. The contractor must install concrete units in accordance with the landscape industry's best practices according to ICPI and NCMA Standard Specifications and the manufacturer's instructions. County Materials is not liable or responsible for loss or damage resulting from improper use, handling or failure to follow installation instructions. Follow all applicable warnings, advisories, and instructions.

Efflorescence

Efflorescence is a naturally occurring process in all concrete products which may appear in the form of a white powdery film on the unit's surface. Efflorescence may be more perceivable in darker colors. It does not, in any way, compromise the functionality or the structural integrity of the product or your installation. Although efflorescence cannot be prevented, it will wash off over time or it can be cleaned with an industry cleaner. County Materials accepts no responsibility or liability for the occurrence of efflorescence.

Washing Guidelines

Seasonal maintenance is recommended for all County Materials' landscape products. General washing guidelines are provided for the following: organic stains, including fruit, soil and leaf residue, algae and moss stains, and efflorescence. For efflorescence stains, wash with a hose and stiff broom.

Cleaning Agents

Concrete cleaning agents are not required but are an option for all County Materials' Interlocking Pavers and Slabs. There are many different cleaning agents specific to application requirements and desired results. Use of the cleaning agent must comply with all instructions provided by the cleaning agent manufacturer, and the cleaning agent method must be performed on a separate mock-up sample not less than 7 feet by 7 feet prior to Buyer approval. County Materials accepts no responsibility or liability for the use of cleaning agents on our Interlocking Pavers and Slabs.

Construction Residue

A possible by-product of cutting concrete units during installation with a saw is residue-filled water or concrete dust. Residue-filled water or re-hydrated dust can cling to the surface of units and leave a concrete stain. It is recommended to wash and remove the water or concrete dust from the surface of the pavers before it dries. Construction residue can also happen through soil disturbance or environmental elements. These contaminants should be removed immediately; they do not compromise the functionality or the structural integrity of the product or your installation. County Materials accepts no responsibility or liability for the occurrence of construction residue or concrete stains.

Sealing

Concrete sealers, though not required, may minimize damage from deicing chemicals, prevent staining and enhance the color. If you choose to use a sealer, it is recommended to use a penetrating sealer which is breathable. Consult a County Materials' sales representative for complete sealing instructions. County Materials Corporation accepts no responsibility or liability for the use of sealing agent of on our Interlocking Pavers & Slabs.

Care & Maintenance – INTERLOCKING CONCRETE PAVERS & SLABS

Slip Resistance & Ice Removal

Sand is the only material recommended to improve slip resistance on concrete product surfaces. Avoid the use of deicers and fertilizers which contain the following chemicals or compounds: Sodium chloride (NaCl "Rock Salt"), Calcium chloride (CaCl2), Magnesium chloride (MgCl2), Ammonium nitrate (NH4NO3), Ammonium sulfate (NH4SO4) or Urea. Use of these chemicals may be harmful to concrete products, especially when used in excess. County Materials Corporation accepts no responsibility or liability for the use of slip resistant products.

Delivery & Storage

Buyer(s) of Interlocking Concrete Pavers & Slabs manufactured by County Materials Corporation shall inspect the material within 48 hours of receipt (the "Inspection Period") to ensure that the style, color, etc., comply with the specifications, and that the material is not damaged or defective. The buyer(s) will be deemed to have accepted the material unless it notifies County Materials Corporation in writing of any non-conforming material during the Inspection Period and furnishes such written evidence or other documentation as required by County Materials Corporation. Material that does not meet the specifications, is defective, or is damaged should not be used for construction.

Once the material is delivered, the buyer(s) is solely responsible for protecting the material from damage, including from snow, excessive mud, wet concrete or any agent that will bond to or damage the material. County Materials Corporation is not responsible for any damage to the material that occurs after delivery.

Reference Only - Landscape Products Specification Guide

This Guide, provided at no cost by County Materials Corporation, is intended to serve only as an informational resource for buyer(s) of Interlocking Concrete Pavers & Slabs manufactured by County Materials Corporation. Every effort has been made to ensure the accuracy of the information presented in this Installation Guide. However, this Guide is provided for reference only and is not a substitute for and does not replace the need for registered professional engineering design and experienced contractor installation. Actual site conditions may vary significantly from those presented in the estimating tables herein. County Materials Corporation strongly urges buyer(s) to exercise diligence and care in the selection, design, installation and use of any construction materials. Review Tech Data Sheets, Care and Maintenance, ICPI and NCMA industry association best practice instructions before starting and/or Buyer approval of Landscape projects. The final determination of the suitability of any information contained in this Installation Guide is the sole responsibility of material buyer(s).

DISCLAIMER OF LIABILITY

COUNTY MATERIALS CORPORATION DISCLAIMS ANY AND ALL LIABILITY FOR DAMAGES OR LOSSES OF ANY KIND OR NATURE TO PERSON(S) OR PROPERTY, INCLUDING, BUT NOT LIMITED TO, DIRECT, INDIRECT, INCIDENTAL, CONSEQUENTIAL OR PUNITIVE DAMAGES, ATTORNEYS' FEES OR COSTS, ARISING OUT OF OR RELATED TO THE USE OF THIS INSTALLATION GUIDE, INCLUDING, BUT NOT LIMITED TO ANY WORK THAT MAY BE PERFORMED BY ANY CONTRACTORS OR INSTALLERS.

WAIVER OF CLAIMS AND AGREEMENT TO HOLD HARMLESS

BY USING THIS INSTALLATION GUIDE, YOU AGREE TO WAIVE ANY AND ALL CLAIMS AGAINST COUNTY MATERIALS CORPORATION, ITS OFFICERS, DIRECTORS, EMPLOYEES, VOLUNTEERS, REPRESENTATIVES, AND AFFILIATES, AND HOLD THEM HARMLESS FOR ANY DAMAGES OR LOSSES OF ANY KIND TO PERSON(S) OR PROPERTY, INCLUDING, BUT NOT LIMITED TO, DIRECT, INDIRECT, INCIDENTAL, CONSEQUENTIAL OR PUNITIVE DAMAGES ARISING OUT OF OR RELATED TO THE USE OF THIS INSTALLATION GUIDE, INCLUDING BUT NOT LIMITED TO THE SELECTION, DESIGN, INSTALLATION OR USE OF ANY MATERIALS, PRODUCTS, STRUCTURES, COMPONENTS OR ASSEMBLIES.

Purchaser is responsible for proper use, handling, maintenance and installation of product as determined by the manufacturer and industry standards. Product has a fitness for a particular purpose. Use and/or application of product not intended by the manufacturer and not in compliance with industry standards is not recommended. Use and/or installation and application are the sole responsibility of the purchaser.

Paver Application, Palletization & Availability Table

Pavers & Slabs	Vehicular Traffic	Pool Deck	Commercial	Pedestrian	How Is This Product Palletized?	Product Availability
Dimensionally Compatible Pavers						
VANTAGE PAVERS® (70mm)	•	•	•	•	3 pc Combo	Stocked
Grand VANTAGE PAVERS® (70mm)		•		•	3 pc Combo	Stocked
DISCOVER PAVERS® (70mm)	•	•	•	•	3 pc Combo	Stocked
Grand DISCOVER PAVERS® (70mm)		•		•	3 pc Combo	Stocked
Grand XL DISCOVER PAVERS® (70mm)		•		•	Individually palletized / one size only	Stocked
Grand TRANQUILITY PAVERS® (70mm)		•		•	3 pc Combo	Stocked
Grand FUSION PAVERS™		•		•	3 pc Combo	Stocked
Elements™ Paving Stones - Unit A (70mm)	•	•	•	•	Individual sizes palletized separately	Stocked
Elements™ Paving Stones - Unit B (70mm)	•	•	•	•	Individual sizes palletized separately	Stocked
Elements™ Paving Stones - Unit C (70mm)	•	•	•	•	Individual sizes palletized separately	Stocked
Elements™ Paving Stones - Unit D (70mm)	•	•		•	Individual sizes palletized separately	Stocked
Unique Size & Finish Pavers						
DESTINATION PAVERS® (70mm)		•		•	4 pc Combo (4 unique sizes / 9 face styles)	Stocked
Essence® Wood Grain Plank Pavers (80mm)	•	•	•	•	5 pc Combo	Stocked
INFLUENCE PAVERS® (80mm)	•	•	•	•	5 pc Combo	Stocked
Skylands™ Concrete Deck Pavers (51mm)		•		•	Individually palletized	Stocked
Permeable Pavers						
H₂O Pro® Pavers Permeable Paver System - Unit A (80mm)	•	•	•	•	Individual sizes palletized separately	Stocked
H₂O Pro® Pavers Permeable Paver System - Unit B (80mm)	•	•	•	•	Individual sizes palletized separately	Stocked
H₂O Pro® Pavers Permeable Paver System - Unit C (80mm)	•	•	•	•	Individual sizes palletized separately	Stocked
Rejuvenate™ Permeable Pavers (80mm)	•	•	•	•	Individually palletized	Stocked

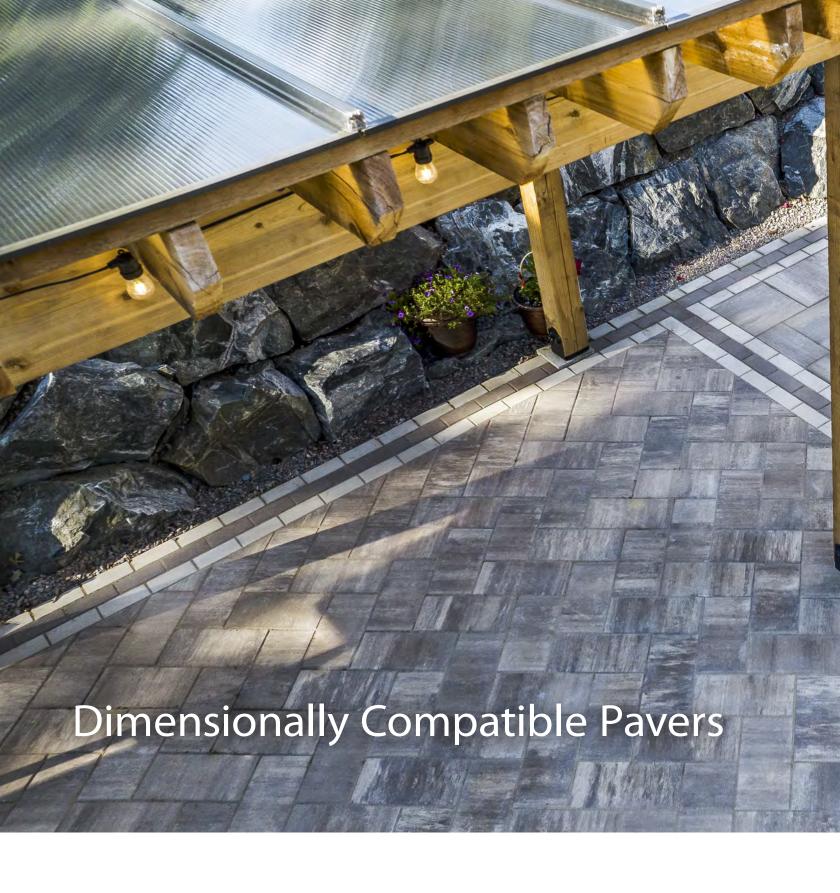


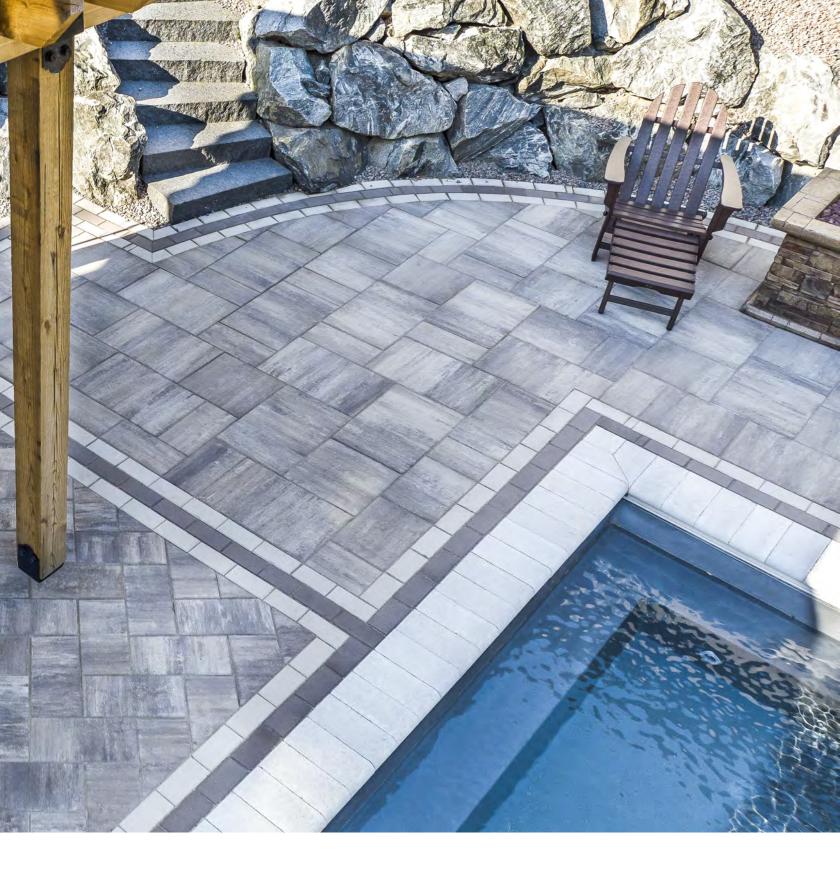
County Materials invests in Genesis Face-Mix Technology® to manufacture beautifully designed pavers and slabs that are backed by the strength and longevity of quality concrete. Our manufacturing process integrally bonds face-mix to the base of each unit, resulting in *exceptional durability*, *lasting color performance*, and *captivating surface textures*.

Pavers and slabs manufactured to meet industry standards for strength and absorption.

Our high-density pavers and slabs stand up to the effects of time, weathering from Mother Nature, and frequent use in everyday life.







VANTAGE PAVERS®

Vantage Pavers feature a striking surface texture that evokes subtle sophistication. These traditional-sized pavers are manufactured as three-piece modules and can be used alone or melded with compatible pavers to create one-of-a-kind installations.



Scan for additional product resources

STANDARD COLORS & FINISH





Majestic







Enlighten - NEW





Haven





Grand VANTAGE PAVERS®

Grand Vantage Pavers feature a striking surface texture that evokes subtle sophistication. These larger paving stones are manufactured as three-piece modules and can be used alone or melded with compatible pavers to create one-of-a-kind installations.

STANDARD COLORS & FINISH



Intention







Scan for additional product resources

Grand Vantage Pavers, INTENTION





Majestic



Enlighten - NEW Timeless Haven

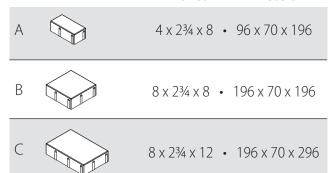


VANTAGE and Grand VANTAGE PAVERS®

Units & Sizes

VANTAGE PAVERS

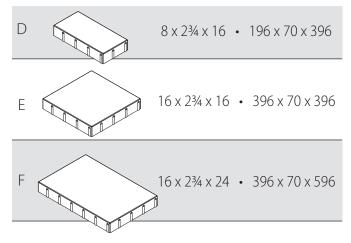
D x H x L (Nominal Size) Inches • Millimeters



SF/Layer	Layers/Pallet	SF/Pallet	Lbs./Pallet
12.45	8	99.6	3175

Grand VANTAGE PAVERS

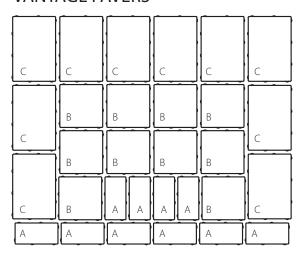
D x H x L (Nominal Size)
Inches • Millimeters



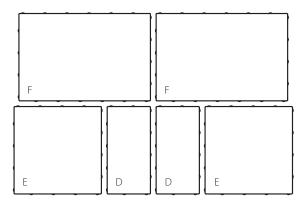
SF/Layer	Layers/Pallet	SF/Pallet	Lbs./Pallet
10.16	8	81.28	2600

Layer Configurations

VANTAGE PAVERS

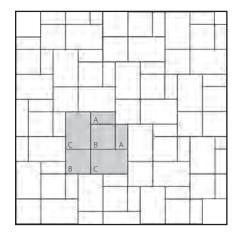


Grand VANTAGE PAVERS

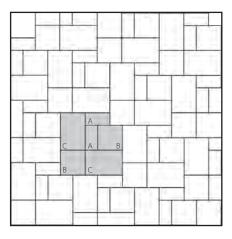


VANTAGE and Grand VANTAGE PAVERS®

Installation Patterns



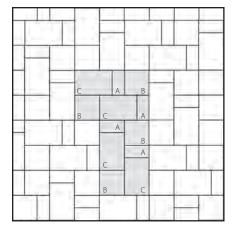
A, B & C Units Pattern #1 A-33% B-33% C-33%



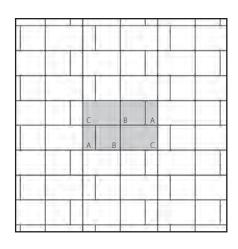
A, B & C Units Pattern #2 A-33% B-33% C-33%

Vantage Pavers units A, B and C shown in the patterns to the left can also be substituted with the Grand Vantage Pavers units D, E and F

A Unit = D Unit B Unit = E Unit C Unit = F Unit



A, B & C Units Pattern #3 A-33% B-33% C-33%



A, B & C Units Pattern #4 A-33% B-33% C-33%

DISCOVER PAVERS®

Discover Pavers offer a smooth, sought-after surface texture in traditional sizes. Manufactured as three-piece module, these pavers can be used alone or melded with compatible pavers to create one-of-a-kind installations.



Scan for additional product resources

STANDARD COLORS & FINISH





Majestic















Discover Pavers, MAJESTIC Elements Paving Stones, 4x8, 8x8, 8x16, REFLECTION and VISION





Grand DISCOVER PAVERS®

Grand Discover Pavers offer a smooth, sought-after surface texture in larger paving stone sizes.

Manufactured as a three-piece module, these pavers can be used alone or melded with compatible pavers to create one-of-a-kind installations.



Scan for additional product resources

STANDARD COLORS & FINISH







Grand XL DISCOVER PAVERS®

Grand XL Discover Pavers offer a smooth, sought-after surface texture in extra-large, long units. These pavers can be used alone or melded with compatible pavers to create one-of-a-kind installations.



Scan for additional product resources

STANDARD COLORS & FINISH









Allure - NEW

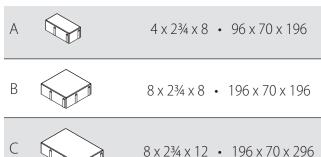


DISCOVER, Grand DISCOVER, and Grand XL DISCOVER PAVERS®

Units & Sizes

DISCOVER PAVERS

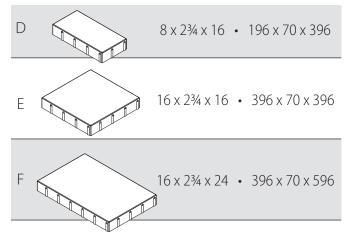
D x H x L (Nominal Size) Inches • Millimeters



SF/Layer	Layers/Pallet	SF/Pallet	Lbs./Pallet
12.45	8	99.6	3175

Grand DISCOVER PAVERS

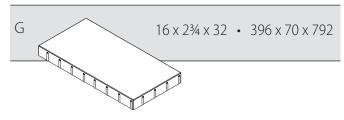
D x H x L (Nominal Size)
Inches • Millimeters



SF/Layer	Layers/Pallet	SF/Pallet	Lbs./Pallet
10.16	8	81.28	2600

Grand XL DISCOVER PAVERS

D x H x L (Nominal Size)
Inches • Millimeters



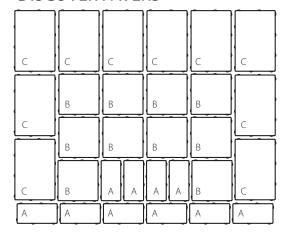
SF/Layer	Layers/Pallet	SF/Pallet	Lbs./Pallet
10.67	8	85.36	2734

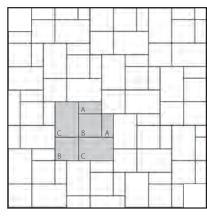
DISCOVER, Grand DISCOVER, and Grand XL DISCOVER PAVERS®

Layer Configurations

Installation Patterns

DISCOVER PAVERS



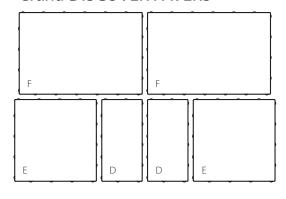


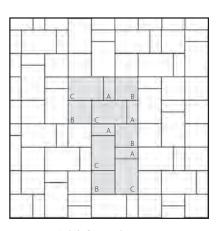
A B C

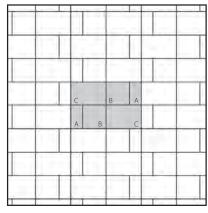
A, B & C Units Pattern #1 A-33% B-33% C-33%

A, B & C Units Pattern #2 A-33% B-33% C-33%

Grand DISCOVER PAVERS



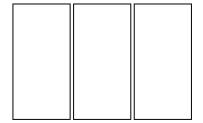


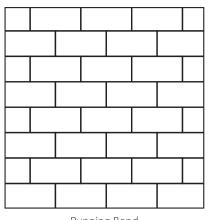


A, B & C Units Pattern #3 A-33% B-33% C-33%

A, B & C Units Pattern #4 A-33% B-33% C-33%

Grand XL DISCOVER PAVERS





Discover Pavers units A, B and C shown in the patterns to the left can also be substituted with the Grand Discover Pavers units D, E and F

A Unit = D Unit B Unit = E Unit C Unit = F Unit

Grand TRANQUILITY PAVERS®

Our Grand Tranquility Pavers are created with clean lines for a refined expression of style. Each paver is manufactured to withstand abrasion and high-traffic use and ensure steady footing with their non-slip surface.



Scan for additional product resources

STANDARD COLORS & FINISH









Grand Tranquility Pavers, TIMELE

Majestic





25

Grand TRANQUILITY PAVERS®

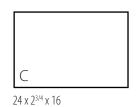
Units & Sizes

DxHxL(Inches)

Each pallet layer includes all sizes.

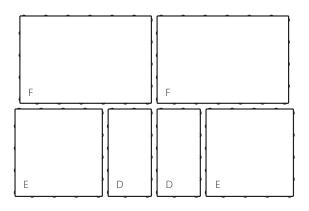




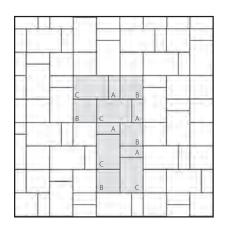


SF/Layer	Layers/Pallet	SF/Pallet	Lbs./Pallet
10.156	8	81.248	2600

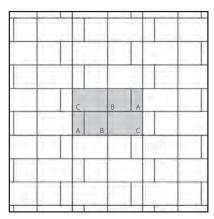
Layer Configurations



Installation Patterns



A, B & C Units Pattern #3 A-33% B-33% C-33%



A, B & C Units Pattern #4 A-33% B-33% C-33%

Note: Textured paver and patio stone surfaces require a buffer between the plate compactor and the paver surface to prevent scuffing. Refer to County Materials' Interlocking Concrete Paver or Slab Installation Guidelines, or contact County Materials for information.

Grand FUSION PAVERS®

Grand Fusion Pavers bring a new level of interest and refinement to concrete pavers by combining two distinct textures into one module. Inspired by textures found in the home, Grand Fusion Pavers fuse the aesthetic of a structured surface, with alternating fields that replicate pebbled leather and striated textiles, and the enhanced performance of exterior concrete. Grand Fusion Pavers are larger in size and feature contemporary textures that provide a slip-resistant surface.



Scan for additional product resources

STANDARD COLORS & FINISH



Vision



Intention





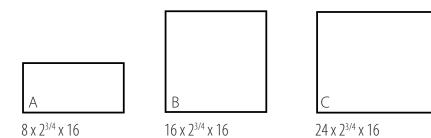
Beckon - NEW Exalt

Grand Fusion Pavers, EXALT Elements Paving Stones, 4x8 Pavers, VISION and BECKON



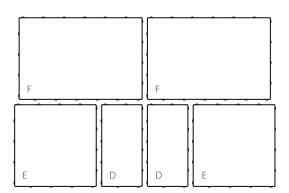
Grand FUSION PAVERS®

Units & Sizes

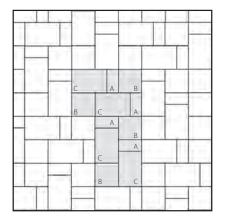


SF/Layer	Layers/Pallet	SF/Pallet	Lbs./Pallet
10.156	8	81.248	2600

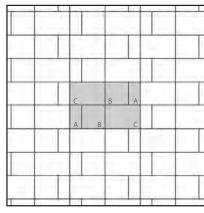
Layer Configurations



Installation Patterns



A, B & C Units Pattern #3 A-33% B-33% C-33%



A, B & C Units Pattern #4 A-33% B-33% C-33%

Elements Paving Stones offer a clean aesthetic with their smooth surface and slightly chamfered edges. Stones can be used alone or melded with compatible pavers to create one-of-a-kind installations.



Scan for additional product resources

STANDARD COLORS & FINISH





Majestic







Enlighten - NEW

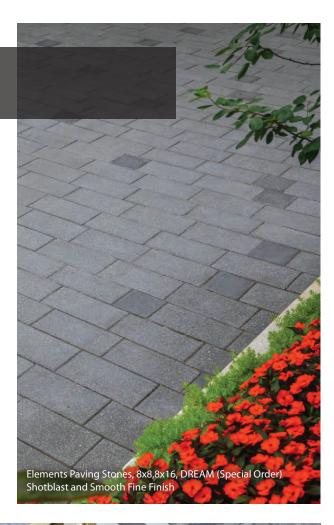






Beckon - NEW Serenity

Timeless

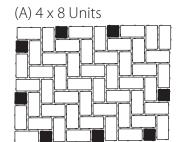


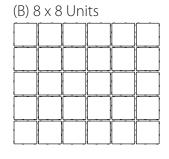


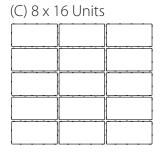
Units & Sizes

	D x H x L (Nominal Size) Inches • Millimeters	SF/ Unit	Units/ SF	SF/ Layer	Layers/ Pallet	SF/ Pallet	Units/ Layer	Units/ Pallet	Lbs/ Pallet
Α	4 x 2¾ x 8 • 96 x 70 x 196	.22	4.5	11	8	88	50	400	2820
В	8 x 2 ³ 4 x 8 • 196 x 70 x 196	.44	2.25	13.33	8	106.64	30	240	3474
C	8 x 2 ³ / ₄ x 16 • 196 x 70 x 396	.89	1.13	13.33	8	106.64	15	120	3338
D	16 x 2 ³ / ₄ x 16 • 396 x 70 x 396	1.78	.56	16.02	6	96	9	54	3080

Layer Configurations



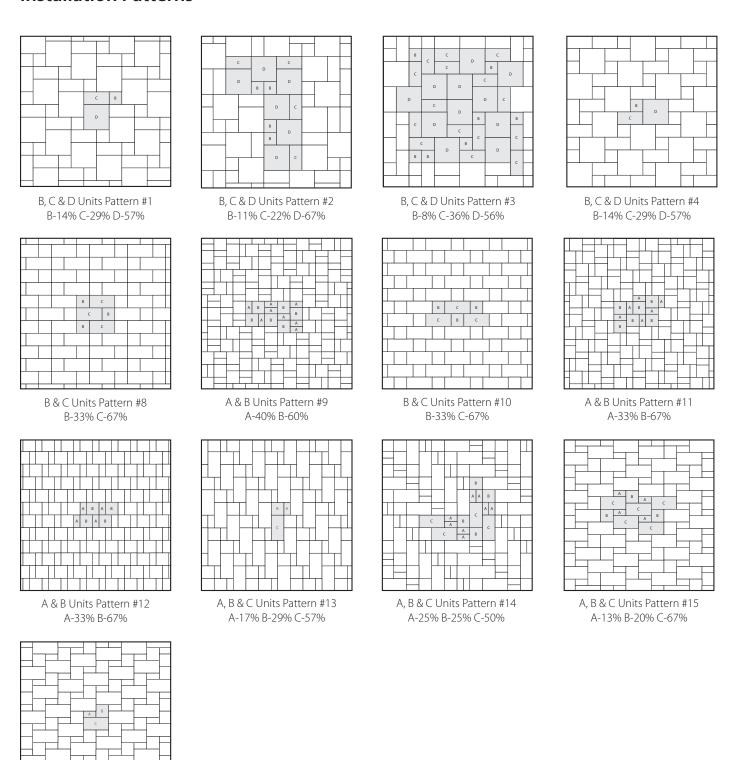




Note: (A) 4" x 8" layer pattern includes 4" x 4" pieces which are included for packaging purpose only and are not recommended for installation

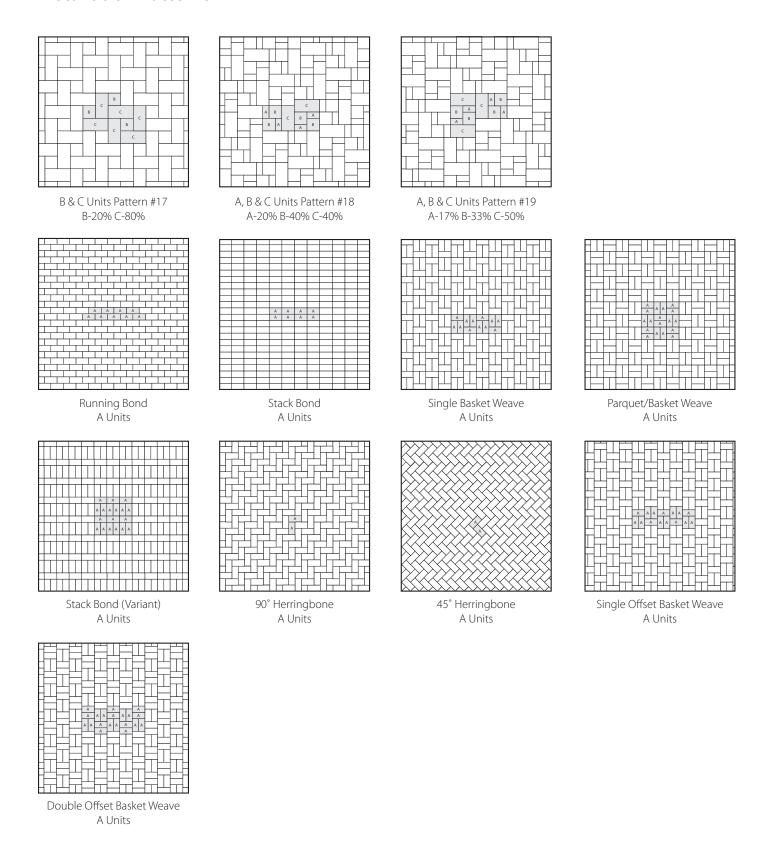
(D) 16 x	16 Units	
	1	
}]	
1	1	

Installation Patterns



A, B & C Units Pattern #16 A-14% B-29% C-57%

Installation Patterns



Glow Path Technology™

Glow Path Technology enhances the safety and aesthetics of residential, commercial, and municipal paver applications by providing subtle illumination that lasts up to 8 hours. From creating striking pool deck accents to improving usage of frequently used pathways, the possibilities of luminescent technology are limitless.



Scan for additional product resources

STANDARD COLORS & FINISH

Elements Paving Stones (4x2^{3/4}x8 and 4x2^{3/8}x8) manufactured with Glow Path Technology *Passageways Step Units (4x6x48) manufactured with Glow Path Technology





Dream



Vision

*Reflection

Discover Pavers (4x8, 8x8 and 12x8) and **Elements Paving Stones (24x24)** manufactured with Glow Path Technology





Majestic

Dream

¾″ H

Majestic Timeless

Majestic Timeless

Vision

Reflection Vision

PRODUCT NUMBERS
Elements 4x8 Glow Paver
– Smooth Finish 2 ¾" H

Elements 24x24 Glow Paver – Smooth Finish 2

Discover Glow Paver -Smooth Finish 2 3/4" H

Elements 4x8 Glow Paver

- Brushed Finish 2 %" H

Reflection 007GP60MM00

007GP010L 007GP011L

007GP013L

007GP035L

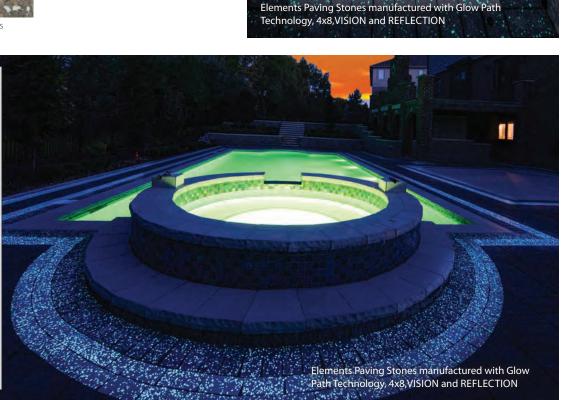
007GP034L

007GP005

007GP004

007GP60MM01

Timeless

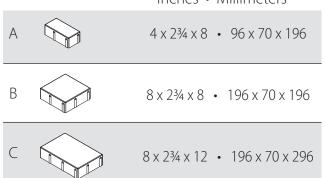


Glow Path Technology™

Units & Sizes

DISCOVER PAVERS with Glow Path Technology

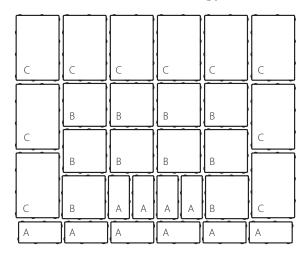
D x H x L (Nominal Size)
Inches • Millimeters



SF/Layer	Layers/Pallet	SF/Pallet	Lbs./Pallet
12.45	8	99.6	3175

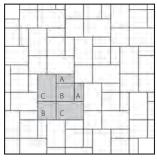
Layer Configurations

DISCOVER PAVERS with Glow Path Technology

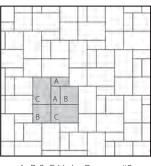


Installation Patterns

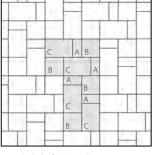
DISCOVER PAVERS with Glow Path Technology



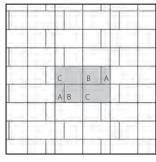
A, B & C Units Pattern #1 A-33% B-33% C-33%



A, B & C Units Pattern #2 A-33% B-33% C-33%



A, B & C Units Pattern #3 A-33% B-33% C-33%



A, B & C Units Pattern #4 A-33% B-33% C-33%

Note: When pavers are exposed to 20 minutes of sunlight you can observe 6-8 hours of glow after sunset. The glow is best seen in dark areas where ambient light is not present. If pavers are installed in shaded areas, the intensity of the glow will vary. However the glow chip is charged by UV rays, this allows the product to still perform on cloudy or overcast days.

Glow Path Technology™

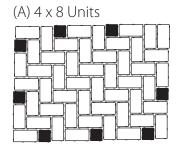
Units & Sizes

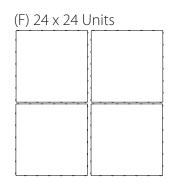
Elements Pavers with Glow Path Technology

	D x H x L (Nominal Size) Inches • Millimeters	SF/ Unit	Units/ SF	SF/ Layer	Layers/ Pallet	SF/ Pallet	Units/ Layer	Units/ Pallet	Lbs/ Pallet
A 📦	4 x 23/4 x 8 • 96 x 70 x 196	.22	4.5	11	8	88	50	400	2820
F 2	24 x 2¾ x 24 • 596 x 70 x 596	4	.25	16	4	64	4	16	2095

Layer Configurations

Elements Pavers with Glow Path Technology





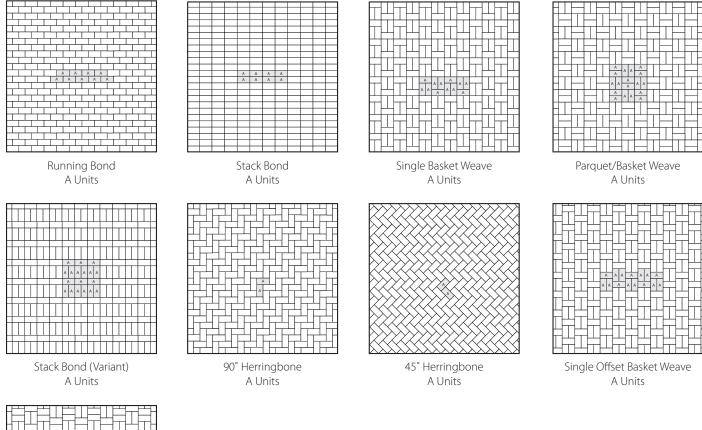
Note: (A) 4" x 8" layer pattern includes 4" x 4" pieces which are included for packaging purpose only and are not recommended for installation

Note: When pavers are exposed to 20 minutes of sunlight you can observe 6-8 hours of glow after sunset. The glow is best seen in dark areas where ambient light is not present. If pavers are installed in shaded areas, the intensity of the glow will vary. However the glow chip is charged by UV rays, this allows the product to still perform on cloudy or overcast days.

Glow Path Technology™

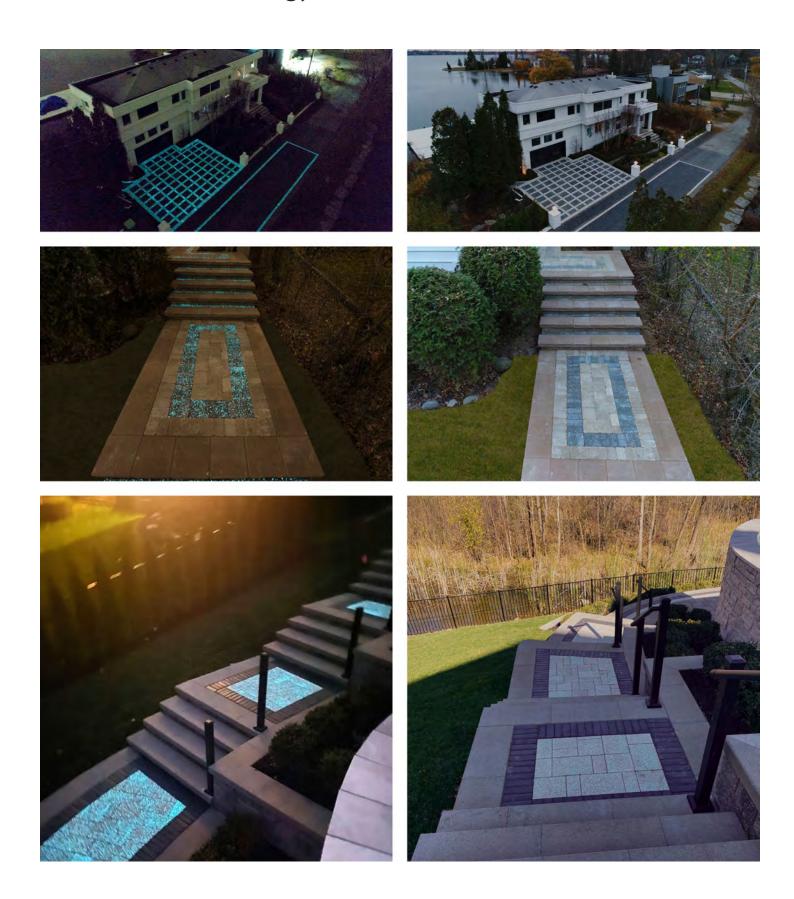
Installation Patterns

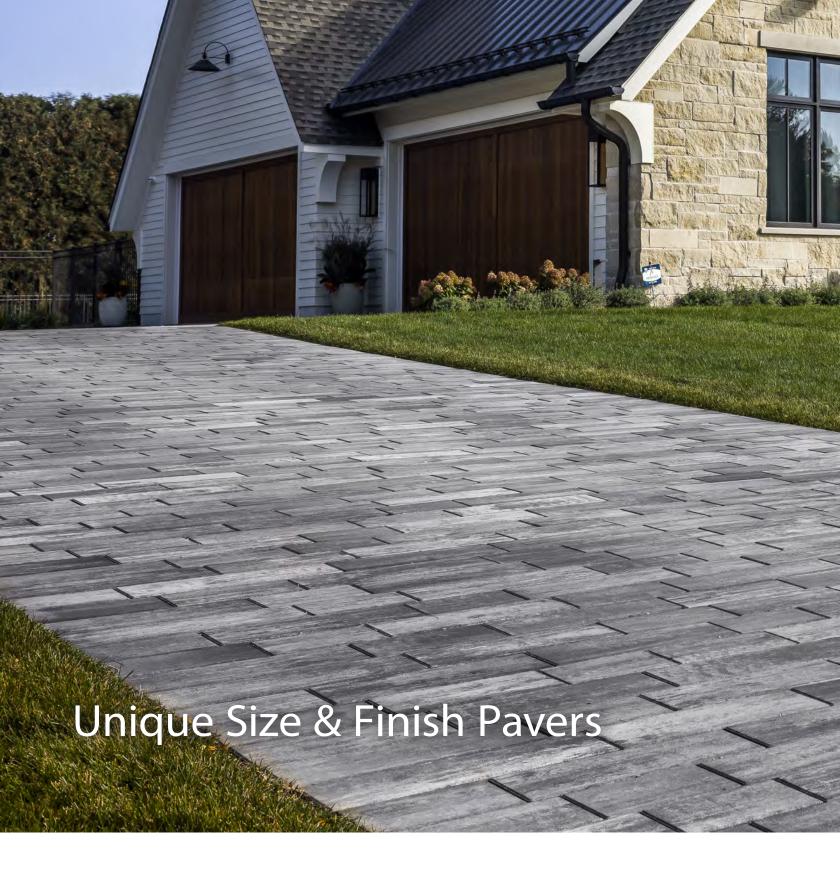
4 x 8 Elements Pavers with Glow Path Technology

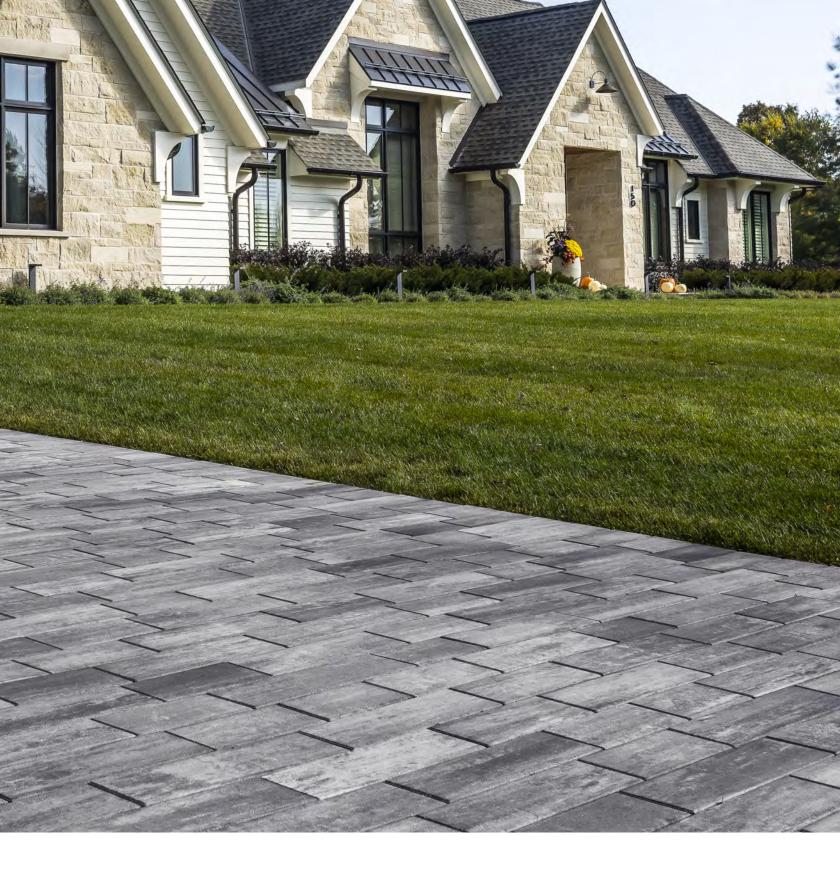


Double Offset Basket Weave A Units

Glow Path Technology™







DESTINATION PAVERS®

Destination Pavers are offered in nine sizes that fit together seamlessly and afford unlimited design freedom. This versatility allows for simple or dramatic combinations that blend well with other paver accents to become the quintessential focal point of any property.



Scan for additional product resources

STANDARD COLORS & FINISH



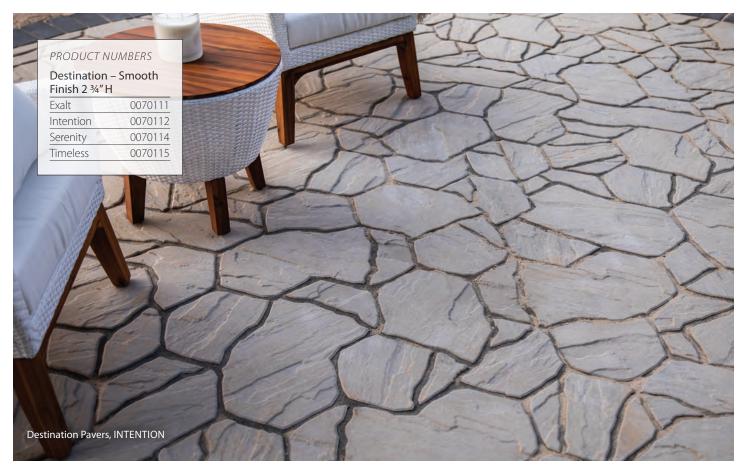






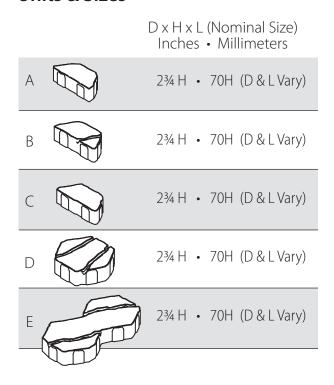
n Timeless

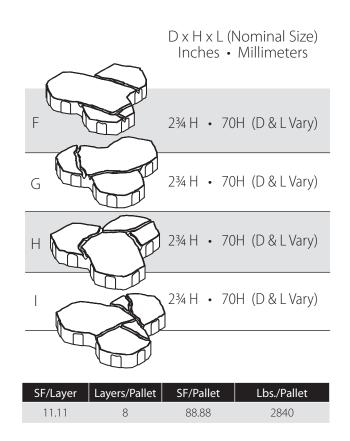
Exalt



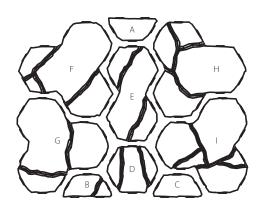
DESTINATION PAVERS®

Units & Sizes



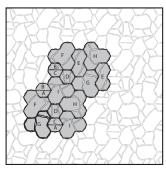


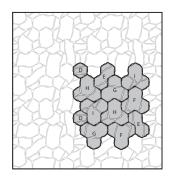
Layer Configuration

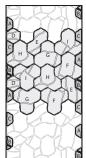


Note: Textured paver and patio stone surfaces require a buffer between the plate compactor and the paver surface to prevent scuffing. Refer to County Materials' Interlocking Concrete Paver or Slab Installation Guidelines, or contact County Materials for information.

Installation Patterns







Sidewalk Installation Pattern

* Approximately 57.5" in width

Essence® Wood Grain Plank Pavers

Essence Wood Grain Plank Pavers are produced in five different plank lengths to facilitate a linear laying pattern to compose a handcrafted effect. Every paver is manufactured with the unmatched durability of concrete with authentic looking grain and textures found in weathered wood.



Scan for additional product resources

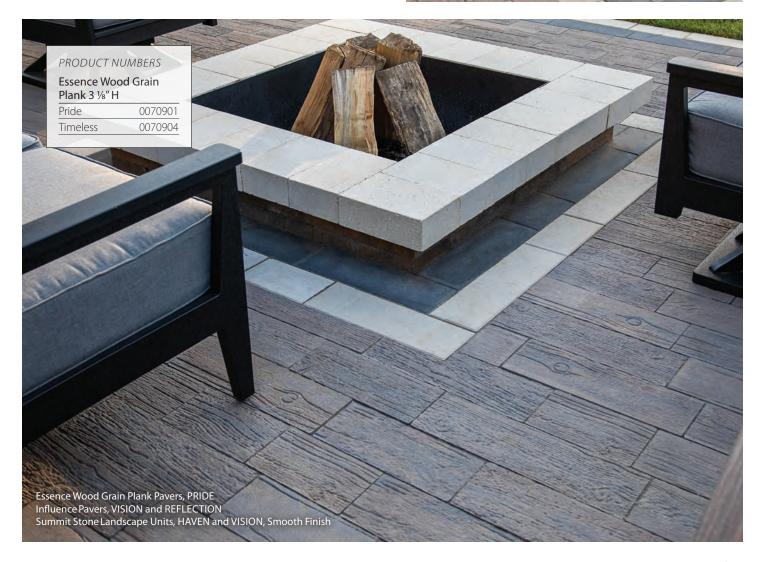
STANDARD COLORS & FINISH





Timeless

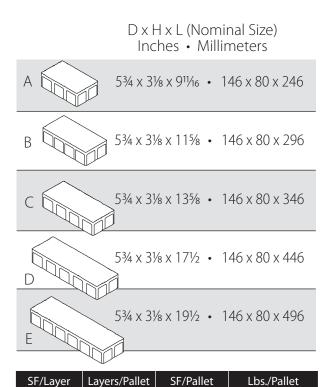
Pride



Essence Wood Grain Plank Pavers, PRIDE Influence Pavers, VISION and REFLECTION

Essence® Wood Grain Plank Pavers

Units & Sizes

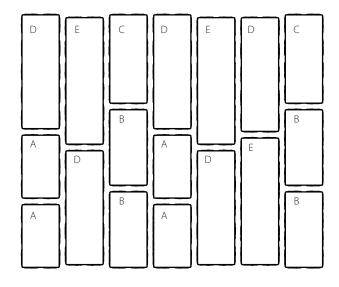


85.92

3210

Layer Configuration

10.74





INFLUENCE PAVERS®

Influence Pavers feature crisp edges and a clean linear feel. Their five plank-style shapes minimize joint lines and lend themselves to invent interesting patterns using different color and texture combinations.



Scan for additional product resources

STANDARD COLORS & SMOOTH FINISH







Vision Dream

Timeless





Majestic

Reflection

SHOT BLAST FINISH



Vision

Shot Blasted products are available in Vision, Dream and Reflection (Special Order).

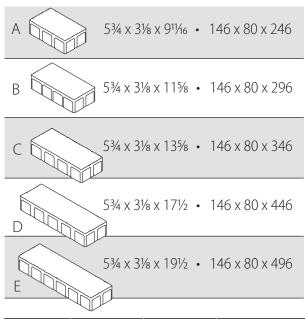




INFLUENCE PAVERS®

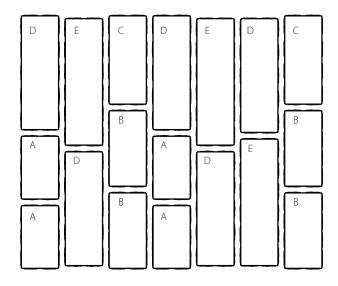
Units & Sizes

D x H x L (Nominal Size) Inches • Millimeters



SF/Layer	Layers/Pallet	SF/Pallet	Lbs./Pallet
10.74	8	85.92	3210

Layer Configuration





Skylands™ Concrete Deck Pavers

Our Skylands Concrete Deck Pavers are used to generate inviting outdoor living spaces in areas otherwise unusable. Using pedestals, deck pavers turn pitched or uneven surfaces into useful living areas.

Full offering of a pedestal system for a raised roof application.

STANDARD COLORS & FINISH



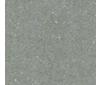




product resources

Vision

Timeless







Dream

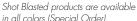
Reflection

Majestic

SHOT BLAST FINISH



in all colors (Special Order).

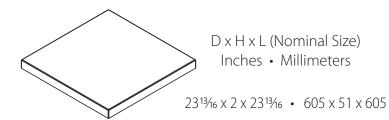






Skylands™ Concrete Deck Pavers

Units & Sizes

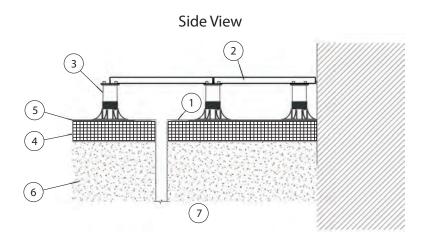


SF/U	nit	Units/SF	SF/Pallet	Units/ Pallet	Lbs/Pallet
4		.25	92	23	2300

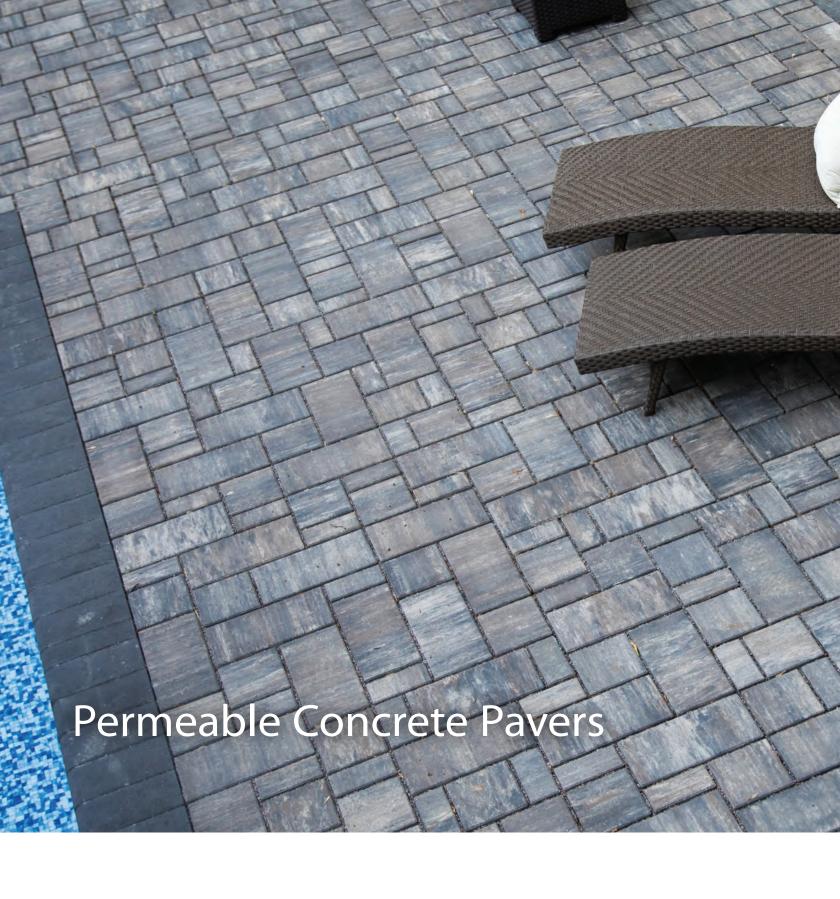
Typical Pedestal Installation

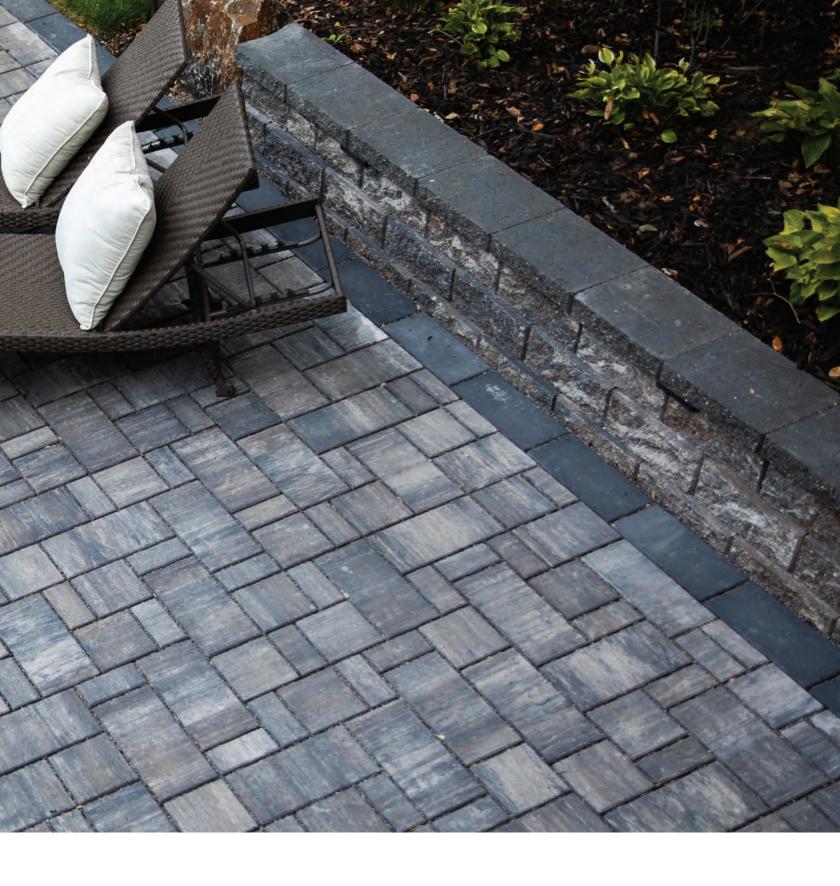
Site layout and elevations are necessary to determine the quantity and heights of pedestals needed for each project. Please send to County Materials for assistance or contact Customer Service at 800-242-7733 or by email at info@countymaterials.com.

Top View



- 1 Roof Drain
- 2 Paver
- 3 Adjustable Paving Support
- 4 Insulation or Protection Board
- 5- Waterproofing Membrane
- 6 Concrete Slab
- 7 Pipes



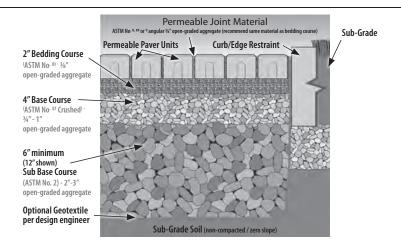


Installation Guidelines – Permeable Concrete Pavers

Full Exfiltration Cross Section

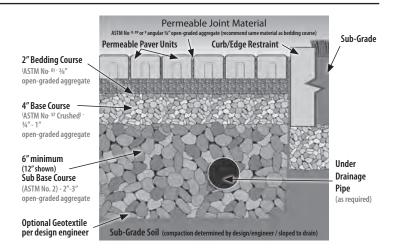
Allows storage and infiltration. This is a common crosssection installation over highly infiltratable soils such as clean sands and gravel mixtures. By design, all water seeps directly into the soil; a subbase drainage pipe system is not required.

Overflows are directed to swales, bioretention areas or storm sewer inlets.



Partial Exfiltration Cross Section

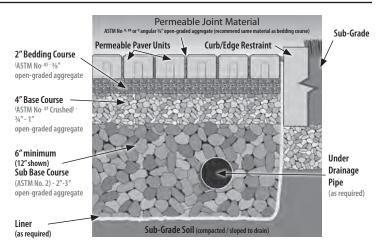
Water does not infiltrate fully. A perforated pipe system in the subbase is required to allow the residual water to be evacuated to the storm water conveyance network. Sub-grade soil preparation, including compaction, is part of the design/engineer's decision and should be executed according to the project specifications. If it is specified not to compact the subgrade, the initial undisturbed soil infiltration should be carefully maintained during excavation and construction; this will enable the base to drain as designed.



No Exfiltration Cross Section

Recommended when soil infiltration capacity is too low or the water table is too high. Water is discharged through a system of pipes and a flow restrictor to control the entry of water into the municipal network. The system essentially acts as an underground reservoir.

County Materials provides general construction guidelines to design professionals and installers of permeable interlocking concrete pavers systems. For additional installation information, reference the Interlocking Concrete Pavement Institute's (ICPI) Tech Spec Technical Bulletins: (https://www.icpi.org/countymaterials)



Cross Section Notes:

Geotextile fabrics may be required in some applications. Consult a civil or geotechnical (soil) engineer for recommendations.

Special design considerations should be considered for each application before starting, including but not limited to, traffic, drainage issues, climate, environmental conditions and functionality. A qualified engineer must perform a final design because site conditions and specific design parameters may vary.

Anyone using this material assumes any and all liability resulting from such use. The final determination of the suitability of any information or material for the use intended is the sole responsibility of the user.

Installation Guidelines – Permeable Concrete Pavers

1 Excavation

Excavate to the desired depth, based on the Engineer's analysis of the soil.

2 Curb

It is recommended to provide a concrete curb and/ or a concrete curb and gutter for edge support around concrete permeable pavers.

3 Subbase and Base Materials

For the subbase, place the ASTM-33 #2 aggregate to a thickness not less than 6"; the thickness must be calculated by the engineer to allow storage of water based on the subsoil infiltration. State/Local regulations may have minimum requirements. Next, for the base place the ASTM-33 #57 aggregate to a 4" thickness and compact the aggregate.

4 Compaction

A buffer between the plate compactor and the paver surface is recommended to prevent scuffing. Refer to County Materials' Interlocking Concrete Paver or Slab Installation Guidelines, or contact County Materials for information. Vibrate in 4" lifts using a plate compactor or roller compactor for large areas to 98% Proctor Density.

5 Bedding Course

Once the subbase and base layers are compacted, the surface should be topped with a minimum 2" thick layer of ASTM-33 #8 aggregate for the bedding course that is screeded and leveled.

6 Deflectometer

Calculate stiffness-related parameters of an aggregate pavement structure.

7 Paver Installation

The concrete pavers should be placed immediately after the ASTM-33 #8 stone bedding course is placed and screeded. Install the pavers manually or with mechanical installation equipment. With mechanical installation, an installer is able to set between 10,000 – 13,800 sq. ft. per day with 1 operator.

8 Filling Paver Joints

Once all pavers are installed, disperse ASTM-33 #8, 9 or 89 open graded aggregate over the surface. This aggregate can be the same material used in the bedding course (ASTM-33 #8).

9 Clean Surface

Top up joints with joint material as needed and sweep the surface clean.

10 Final Compaction

After sweeping off excess stones from the surface, compact pavers into the bedding course with several passes of a plate compactor that has a buffer attached to prevent scuffing.

Additional aggregate may be placed in the joints as needed, and the surface swept clean.



County Materials provides general construction guidelines to design professionals and installers of permeable interlocking concrete pavers systems. For additional installation information, reference the Interlocking Concrete Pavement Institute's (ICPI) Tech Spec Technical Bulletins: (https://www.icpi.org/countymaterials)

Our H₃O Pro Pavers (Permeable Paving Units) are an effective storm water management solution on site. Their 3 1/8" (80 mm) thickness withstands heavy low speed vehicular loads, making them a suitable option for driveways, walkways, and parking lots.



Scan for additional product resources

STANDARD COLORS & FINISH







Majestic

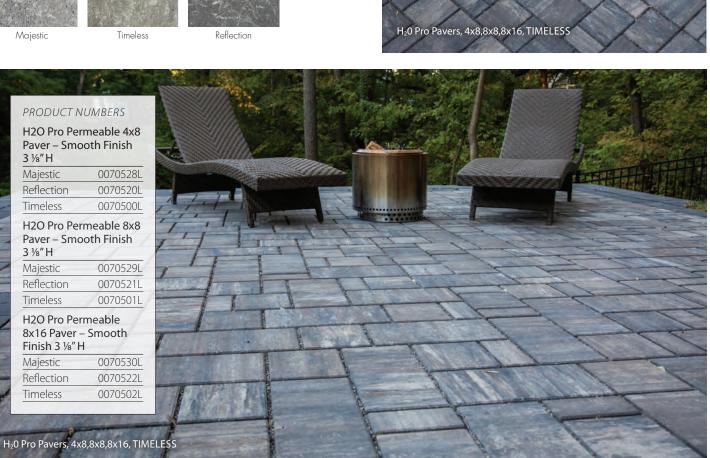
Reflection

BARREL TUMBLED FINISH (Special Order)









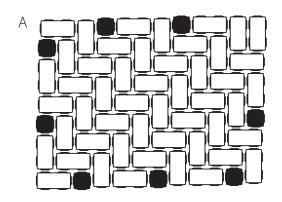


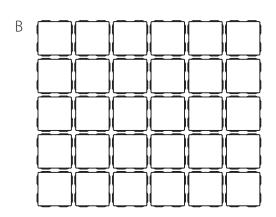
Units & Sizes

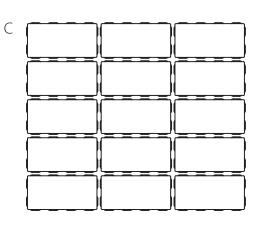
	D x H x L (Nominal Size) Inches • Millimeters	SF/Unit	Units/ SF	SF/ Layer	Layers/ Pallet	SF/ Pallet	Units/ Layer	Units/ Pallet	Lbs/ Pallet
A DO	4 x 3 % x 8 • 99 x 80 x 199	.22	4.5	11	8	88	50	400	3085
B	8 x 3% x 8 • 199 x 80 x 199	.44	2.25	13.2	8	105.6	30	240	3695
	8 x 3 % x 16 • 199 x 80 x 399	.89	1.13	13.2	8	105.6	15	120	3640
		lo ctalle	ad inint	dinaansi	ons — 10	(25/	"\		

- Installed joint dimensions = $10 \text{ mm} (\frac{25}{64})$
- Installed open area/layer = $\pm 9.1\%$ (depending on pattern)

Layer Configurations



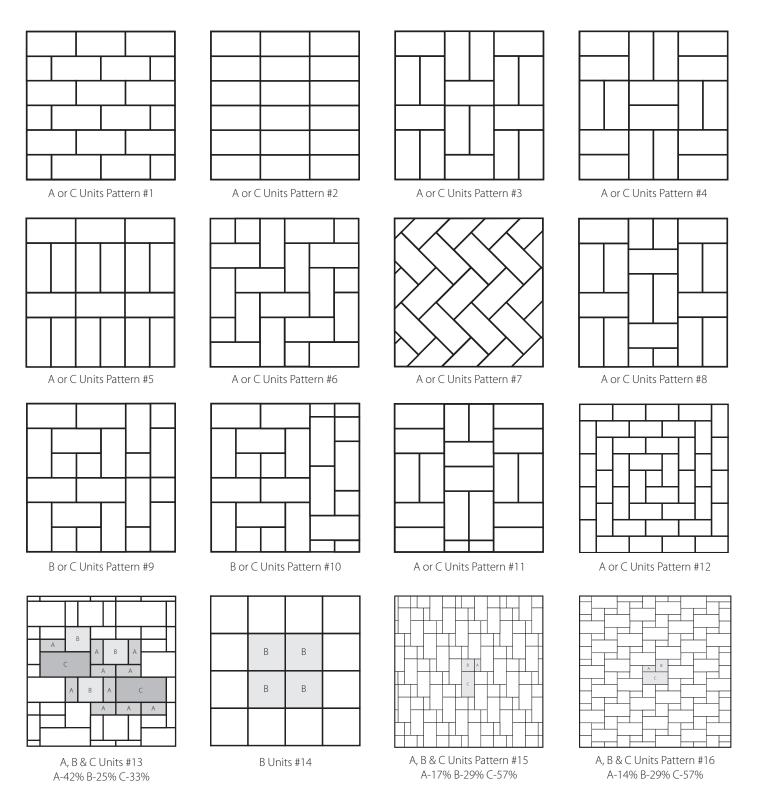




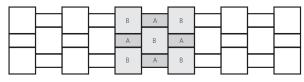
Note: The 4"x 8" size of H₂O Pro Pavers are manufactured in a herringbone layer pattern that easily accommodates mechanical installation. Units can also be installed in many different patterns by hand.

Note: (A) 4" x 8" layer pattern includes 4" x 4" pieces which are included for packaging purpose only and are not recommended for installation.

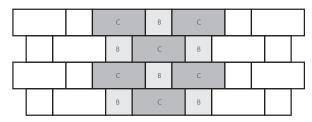
Installation Patterns



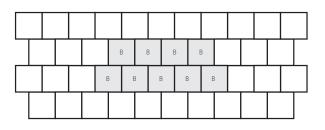
Installation Patterns



A & B Units #17 A-29% B-71%



B & C Units #18 B-33% C-67%



B Units #19



Rejuvenate™ Permeable Pavers

Rejuvenate Permeable Pavers combine functionality and design. The pavers' uniform shape optimizes installation speed and can be used for herringbone patterns.



Scan for additional product resources

STANDARD COLORS & FINISH





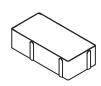
Serenity Tim

Timeless



Rejuvenate™ Permeable Pavers

Units & Sizes



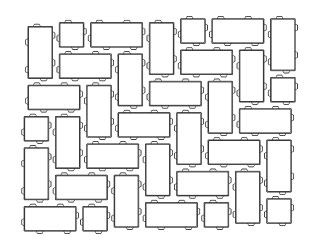
D x H x L (Nominal Size)
Inches • Millimeters

 $5 \times 3\% \times 10 \cdot 127 \times 80 \times 254$

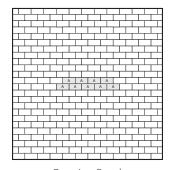
SF/	Units/	SF/	Layers/	SF/	Units/	Units/	Lbs/
Unit	SF	Layer	Pallet	Pallet	Layer	Pallet	Pallet
.31	3.23	9.64	8	77.12	28 Full, 7 Halves	224 Full, 56 Halves	3100

- Installed joint dimensions = 11 mm (.433")
- Installed open area/layer = 1.28 SF per layer

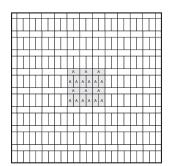
Layer Configuration



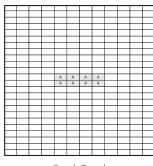
Installation Patterns



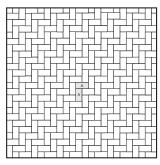
Running Bond



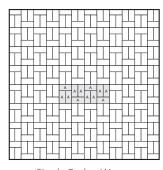
Stack Bond (Variant)



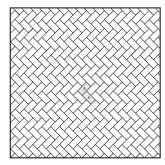
Stack Bond



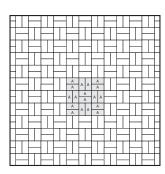
90° Herringbone



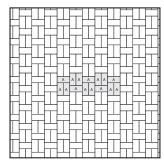
Single Basket Weave



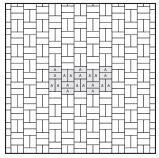
45° Herringbone



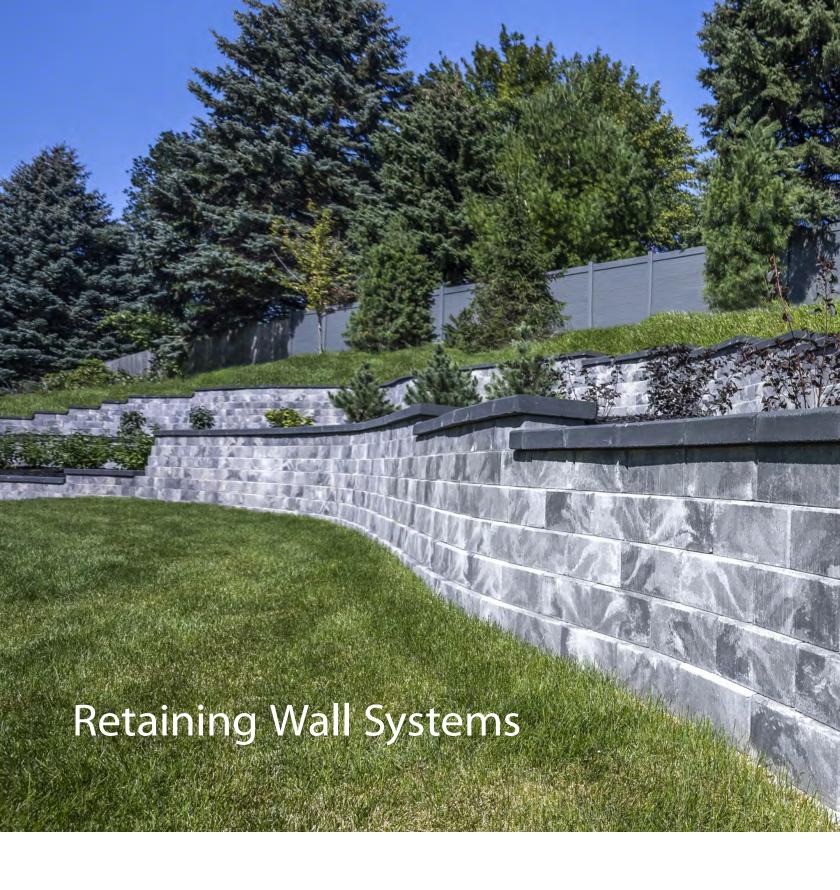
Parquet/Basket Weave

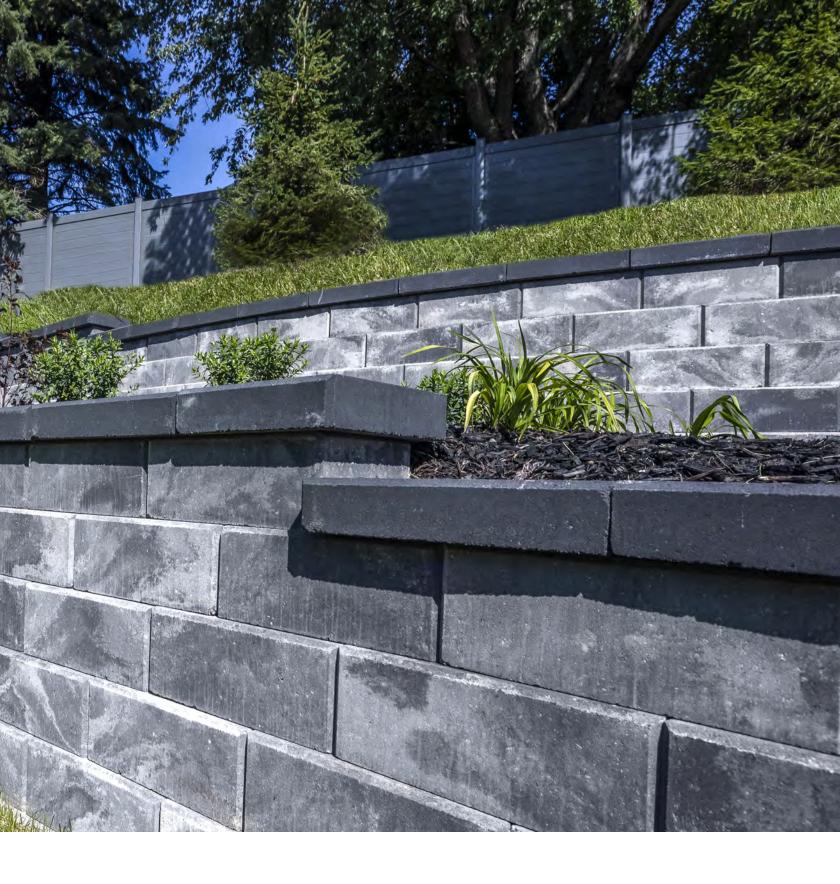


Single Offset Basket Weave



Double Offset Basket Weave





Site Analysis

Your retaining wall design must begin with a proper site analysis. The conditions at the site will determine your wall height and location, as well as reinforcement requirements. Check the soil type and conditions at the base of your wall for adequate bearing pressure. The soil below a wall needs to be strong enough to support the weight of the wall resting on it. If the soil is in a moist or wet condition, extra precautions may be required to provide a stable base. An accurate site plan must also include the location of all lot lines, utilities, buildings, driveways and parking areas. Note any permanent trees or vegetation. Prior to design, proper permits, owner approvals, utility clearances* and temporary easements must be obtained.

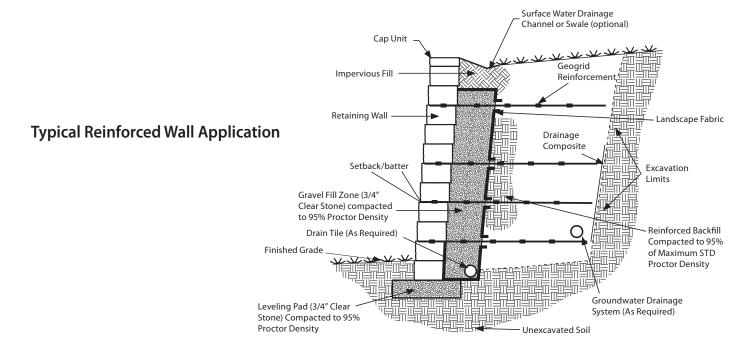
If your jobsite has any of the following conditions, get a complete engineering analysis from a qualified designer before proceeding:

- Soft or unstable soils
- Excessive water runoff
- Surcharges greater than a residential driveway
- Waterfront and shoreline sites
- Terraces
- Slopes greater than 3 to 1 above or below the wall
- Wall heights exceeding 4'

Finalize Design

Develop a wall layout that will maximize drainage and direct the flow of water around the wall and away from buildings. Consider material and equipment access at the site, and try to minimize the excavation and hauling of soil and fill.

Reference the NCMA for more information.



Getting Started

Build on stable, well-compacted ground. Spend extra care and preparation on the base and bottom row of your wall. Any unevenness in the base course will be amplified and difficult to correct after several courses have been installed. Always begin your wall construction at the lowest possible point of your base and step up. You should also begin from the corner blocks of steps and work outward to the end of the wall.

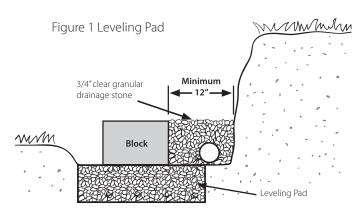
Leveling Pad

Excavate a shallow trench at the base of your planned wall. It should be a minimum of 24" wide and 8" deep to accommodate the leveling pad material and required unit embedment below grade. Place a minimum of 6" of base material in the leveling pad layer. Base material should consist of either granular, well-drained coarse sand, angular gravel or crushed stone. Use a hand-operated plate compactor to compact the base material every 2" to achieve a solid and level foundation. The leveling pad may be stepped in 8" increments to match any grade changes along the front of the wall.

Unit Installation

Place retaining wall units side-by-side in the center of the leveling pad (Figure 1). Align and level each unit with adjacent ones side-to-side and front-to-rear. Carefully tap high points with a rubber mallet. A thin layer of sand (1" or less) may be used on top of the compacted base material to help level the first course. Always align from the back of units, not from irregular front faces. A string line and level will keep each new row of blocks on track.

After placing and leveling the first course, install drain tile behind the block as necessary. If applicable, fill voids in and between block and a minimum of 12" behind block with clean granular drainage rock. Replace enough fill in front of the base course to secure it. Fill behind block with drainage rock until it is level with the top of the first course. Compact the fill with a hand-operated plate compactor on



both sides of the first course to required specifications, or to 95% of maximum Standard Proctor Density (a method used to determine compaction). Compact on top of the block, and clean the top of the first course units to begin installation of second course.

Unit Embedment

Generally, if the grade in front of the wall is level, one half of the first course should be embedded below grade. Embedment should be increased for special conditions such as slope, soft foundation soils or shoreline applications. As a general rule, the first course of block should be embedded at a 6" minimum. For walls that are 4' or higher, add 1" embedment per one-foot rise.

Note: This guide offers typical installation recommendations for retaining walls under 4' high. For retaining wall installations over 4' high, and for walls that will be installed in wet or unstable soils, in areas with heavy surcharges, or applications that require drainage or other special conditions, a final design must be performed by a qualified engineer; site conditions and specific design parameters may vary. If you have questions, take time and ask a qualified contractor or your retaining wall distributor for more information.

Standard Proctor Density is referred to several times in this guide. Proper placement and compaction of soils is essential to the successful performance of any retaining wall system. Reinforced soil structures routinely specify that all soils be compacted to 95 % maximum density as determined by ASTM D698-Standard Proctor Density. Post construction settlement is an obvious concern of poorly compacted materials, excessive lateral wall movement and/or insufficient shear strength. Soils must be compacted in lifts to achieve maximum soil shear strength and validate the design.

*Call Diggers Hotline in advance (800-242-8511) before digging to locate any underground lines.

Additional Courses

Install additional courses with seams of each successive course offset by several inches from the units below for structural stability.

County Block and Tribute retaining walls with pins:

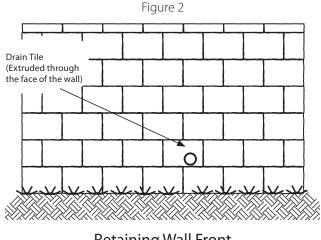
For the second and additional courses, set each unit 1" back from its finished position. Insert two pins in the front holes, and pull blocks forward so pins are fully seated into slots in two separate units below, locking them together. County Block Jumbo units only require 2 pins per block; these may be placed in any 2 of the 3 available holes. It may be necessary to tap pins lightly with a hammer for proper alignment. Check each course for tightness of each unit with adjacent units and check wall alignment.

Winston and Integrity retaining walls without pins:

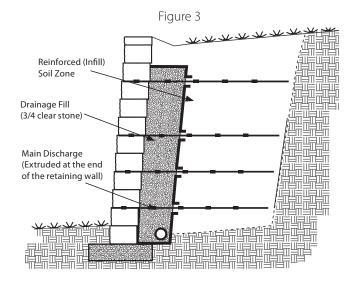
If your wall system does not require the use of pins or cube system, be sure that the lower units are clean and additional courses are properly locked in place with the built in concrete locking mechanism.

Drain Tile

Drain tile should be placed behind the wall and extruded wherever possible. This means the drain tile may have to be extruded through the face of the wall (Figure 2) or at the end of the wall (Figure 3).

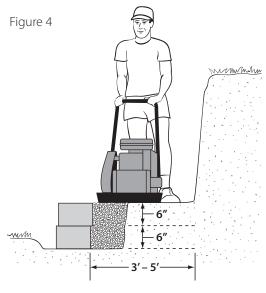


Retaining Wall Front



Backfilling and Compaction

After each course is aligned, if applicable, fill in block cores and voids between units with drainage rock. Then, backfill and compact each course as you continue constructing the wall. Make sure to backfill in front of the wall until the desired grade is achieved (Figure 4). Next, use a hand-operated plate compactor directly over the top of the block to consolidate aggregates and pulverize any residual concrete fragments (slag). When compacting, it is important to backfill in small lifts. Know your compactor and how much it can handle. Most small compactors can handle a 6" lift at a time. This is a good general rule to follow when using a compactor. Work from the back of the wall to the furthest edge of excavated area, with a three to five foot minimum compacted zone, until all materials are compacted.



Retaining walls require only a certain amount of compaction with hand-operated equipment to consolidate the soil and minimize settling. Excessive compaction can cause forward rotation of the wall facing. Large equipment operating too close to the wall may cause over-compaction and result in localized bulging. It can also damage geogrid reinforcement materials.

Geogrid Reinforcement

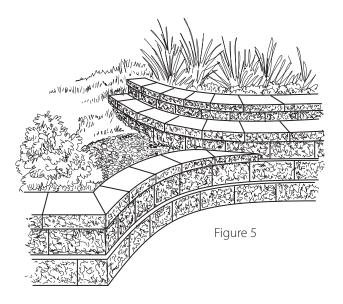
If geogrid reinforcement is required, excavate behind wall location for a distance equal to the designed embedment length of the grid. Construct the wall up to the designated height of first grid layer. Place and compact granular fill within and behind the wall. Backfill and compact soil behind the granular fill in the reinforced zone.

Lay geogrid, cut to appropriate sizes and with the strength direction perpendicular to the wall, on top of units. The cut ends should nearly touch the front edge of the units but not extend past the front face. Extend the grid pieces to the back of the slope. Place the next course of units on top of the geogrid and be sure the units are locked in place by pins (if applicable) or the concrete locking mechanism. Pull units forward, making sure they are secure. Place granular drainage rock in cores (if applicable) between block and 1' behind units. Pull geogrid taut – staking is recommended – before placing backfill material. Compact backfill in 6" lifts behind wall.

Estimation Geogrid Charts can be found on County Materials' website at www.countymaterials.com. Simply go to Downloads / Product Installation & Maintenance Guides / Landscaping. There you will find HTS Manuals specific to County Block, Integrity $^{\text{m}}$, Rib Rock $^{\text{m}}$ and Tribute*.

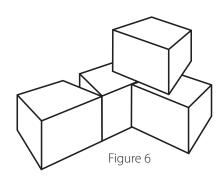
Ending and Capping a Retaining Wall

End a retaining wall by either stepping the courses or rolling the wall into the existing embankment. As a general rule, 2' of block buried into the hillside will prevent potential erosion. Complete your wall with available cap units placed flush with the face, set back slightly or set out as much as 1". Cap units should be installed by starting on one end of the wall, not in the middle. Use retaining wall adhesive on all cap units to hold them in place. Cap units may need to be split or cut for a proper fit (Figure 5).



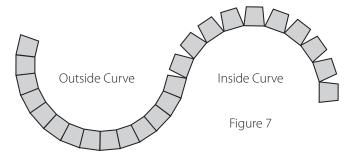
Inside Corners

Lay a unit perpendicular to the end of the wall so its side face is flush with the back of the first course. Complete the first course. On each successive row, alternate the position of units over the right angle to obtain an interlocking corner (Figure 6). For retaining wall systems with concrete locking mechanisms, make sure to cut or chisel off the locking mechanism to achieve the proper overlap.



Curves

Simply fan or bring the tails of units together to make convex (outside), concave (inside) and serpentine curves (Figure 7).



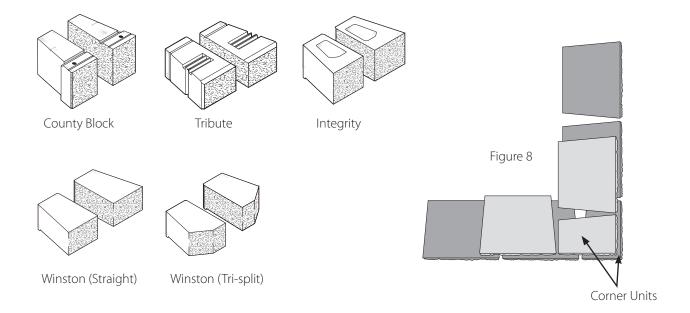
Tribute retaining walls with curves:

The Tribute retaining wall system can create 4' radius curves with no cutting of units.

Outside Corners

County Block, Tribute, Integrity and Winston retaining walls with outside corners:

The units must be split in half to create an outside corner. Each unit split will create 2-corner block (one left, and one right corner). On each successive row, alternate the position of the cut corner units over the right angle to obtain an interlocking corner. Install additional courses with seams of each successive course offset by several inches from the units below for structural stability (Figure 8). Use retaining wall adhesive to help secure each corner unit.



Care & Maintenance – Garden and Retaining Walls

Color Selection

Colors shown may vary from actual hues and should only be used as a guide. Refer to actual product samples for final color selection. Because concrete products are manufactured with high quality, naturally-mined aggregates and materials, variations in color or shading should be expected in products that are manufactured at different times and in units having different shapes. This color or shading variation is acceptable in the industry. County Materials recommends immediately verifying the product and color upon receipt, and prior to opening pallets. For any discrepancies, contact your local County Materials representative before installation. Use of product constitutes acceptance.

Proper Color Distribution and Installation Techniques

Color of concrete products may vary significantly between production lots. Install concrete units from several pallets to ensure distribution of color. The contractor must install concrete units in accordance with the landscape industry's best practices according to ICPI and NCMA Standard Specifications and the manufacturer's instructions. County Materials is not liable or responsible for loss or damage resulting from improper use, handling or failure to follow installation instructions. Follow all applicable warnings, advisories, and instructions.

Efflorescence

Efflorescence is a naturally occurring process in all concrete products which may appear in the form of a white powdery film on the unit's surface. Efflorescence may be more perceivable in darker colors. It does not, in any way, compromise the functionality or the structural integrity of the product or your installation. Although efflorescence cannot be prevented, it will wash off over time or it can be cleaned with an industry cleaner. County Materials accepts no responsibility or liability for the occurrence of efflorescence.

Washing Guidelines

Seasonal maintenance is recommended for all County Materials' landscape products. General washing guidelines are provided for the following: organic stains, including fruit, soil and leaf residue, algae and moss stains, and efflorescence. For efflorescence stains, wash with a hose and stiff broom.

Cleaning Agents

Concrete cleaning agents are not required but are an option for all County Materials' retaining wall units. There are many different cleaning agents specific to application requirements and desired results. Use of the cleaning agent must comply with all instructions provided by the cleaning agent manufacturer, and the cleaning agent method must be performed on a separate mock-up sample not less than 7 feet by 7 feet prior to Buyer approval. County Materials accepts no responsibility or liability for the use of cleaning agents on our retaining wall units.

Construction Residue

A possible by-product of cutting concrete units during installation with a saw is residue-filled water or concrete dust. Residue-filled water or re-hydrated dust can cling to the surface of units and leave a concrete stain. It is recommended to wash and remove the water or concrete dust from the surface of the garden and retaining walls before it dries. Construction residue can also happen through soil disturbance or environmental elements. These contaminants should be removed immediately; they do not compromise the functionality or the structural integrity of the product or your installation. County Materials accepts no responsibility or liability for the occurrence of construction residue or concrete stains.

Care & Maintenance – Garden and Retaining Walls

Sealing

Concrete wall sealers, though not required, may minimize damage from deicing chemicals, prevent staining and enhance the color. If you choose to use a sealer, it is recommended to use a penetrating sealer which is breathable. Consult a County Materials' sales representative for complete sealing instructions. County Materials Corporation accepts no responsibility or liability for the use of sealing agents on our Garden and Retaining Walls.

Delivery & Storage

Buyer(s) of retaining wall systems manufactured by County Materials Corporation shall inspect the material within 48 hours of receipt (the "Inspection Period") to ensure that the style, color, etc., comply with the specifications, and that the material is not damaged or defective. The buyer(s) will be deemed to have accepted the material unless it notifies County Materials Corporation in writing of any non-conforming material during the Inspection Period and furnishes such written evidence or other documentation as required by County Materials Corporation. Material that does not meet the specifications, is defective, or is damaged should not be used for construction.

Once the material is delivered, the buyer(s) is solely responsible for protecting the material from damage, including from snow, excessive mud, wet concrete or any agent that will bond to or damage the material. County Materials Corporation is not responsible for any damage to the material that occurs after delivery.

For Reference Only - Landscape Products Specifications Guide

This Guide, provided at no cost by County Materials Corporation, is intended to serve only as an informational resource for buyer(s) of retaining wall systems manufactured by County Materials Corporation. Every effort has been made to ensure the accuracy of the information presented in this Guide. However, this Guide is provided for reference only and is not a substitute for and does not replace the need for registered professional engineering design and experienced contractor installation. Actual site conditions may vary significantly from those presented in the estimating tables herein. County Materials Corporation strongly urges buyer(s) to exercise diligence and care in the selection, design, installation and use of any construction materials. Review Tech Data Sheets, Care and Maintenance, ICPI and NCMA industry association best practice instructions before starting and/or Buyer approval of Landscape projects. The final determination of the suitability of any information contained in this Installation Guide is the sole responsibility of material buyer(s).

DISCLAIMER OF LIABILITY

COUNTY MATERIALS CORPORATION DISCLAIMS ANY AND ALL LIABILITY FOR DAMAGES OR LOSSES OF ANY KIND OR NATURE TO PERSON(S) OR PROPERTY, INCLUDING, BUT NOT LIMITED TO, DIRECT, INDIRECT, INCIDENTAL, CONSEQUENTIAL OR PUNITIVE DAMAGES, ATTORNEYS' FEES OR COSTS, ARISING OUT OF OR RELATED TO THE USE OF THIS INSTALLATION GUIDE, INCLUDING, BUT NOT LIMITED TO ANY WORK THAT MAY BE PERFORMED BY ANY CONTRACTORS OR INSTALLERS.

WAIVER OF CLAIMS AND AGREEMENT TO HOLD HARMLESS

BY USING THIS INSTALLATION GUIDE, YOU AGREE TO WAIVE ANY AND ALL CLAIMS AGAINST COUNTY MATERIALS CORPORATION, ITS OFFICERS, DIRECTORS, EMPLOYEES, VOLUNTEERS, REPRESENTATIVES, AND AFFILIATES, AND HOLD THEM HARMLESS FOR ANY DAMAGES OR LOSSES OF ANY KIND TO PERSON(S) OR PROPERTY, INCLUDING, BUT NOT LIMITED TO, DIRECT, INDIRECT, INCIDENTAL, CONSEQUENTIAL OR PUNITIVE DAMAGES ARISING OUT OF OR RELATED TO THE USE OF THIS INSTALLATION GUIDE, INCLUDING BUT NOT LIMITED TO THE SELECTION, DESIGN, INSTALLATION OR USE OF ANY MATERIALS, PRODUCTS, STRUCTURES, COMPONENTS OR ASSEMBLIES.

Purchaser is responsible for proper use, handling, maintenance and installation of product as determined by the manufacturer and industry standards. Product has a fitness for a particular purpose. Use and/or application of product not intended by the manufacturer and not in compliance with industry standards is not recommended. Use and/or installation and application are the sole responsibility of the purchaser.

Tribute® Retaining Wall System

Our Tribute Retaining Wall System features solid blocks with multiple pin grooves on the top surface that allow a combination of retaining and freestanding wall options.



Scan for additional product resources

STANDARD COLORS & SPLIT FACE FINISH





Grav*







Graphite³







Swiss Mocha*



Canyon Brown*

RUSTIC FINISH





Gray

Vision

October Oak

Swiss Mocha

Silvertone

Rustic texture products are available in all colors (Special Order).

Timeless Silvertone*

*Pricing may vary regionally.

PRODUCT NUMBERS

Split Face - 12" x 6" x 16"

Janesville Colors 0076050 0076004 Canyon Brown Graphite 0076016 Gray 0076000 0076008 Silvertone Timeless 0076024 0076020 Vision Swiss Mocha 0076012 Roberts Colors Canyon Brown 0048003W Graphite 0048016W 0048000W

October Oak

Swiss Mocha

Silvertone

Vision

Split Face Front & Back (2-Sided) - 10" x 6" x 16"

Janesville Colors							
Buff	0076051						
Canyon Brown	0076005						
Graphite	0076017						
Gray	0076001						
Silvertone	0076009						
Timeless	0076025						
Vision	0076021						
Swiss Mocha	0076013						
Roberts Colors							
Canyon Brown	0048003W2						
Graphite	0048016W2						

0048000W2 0048009W2 0048006W2 0048012W2 0048019W2

12" x 6" x 8" Janesville Colors Buff 0076052 Canyon Brown 0076006 0076018 Graphite 0076002 Gray Silvertone 0076010 Timeless 0076026 Vision 0076022 Swiss Mocha 0076014 **Roberts Colors** Canyon Brown 0048004W Graphite 0048017W 0048001W Gray October Oak 0048010W Silvertone 0048007W Swiss Mocha 0048014W Vision 0048020W

Split Face Corner -



Tribute Retaining Wall System, GRAPHITE Discover Pavers, TIMELESS

Vantage Pavers, REFLECTION

0048009W

0048006W

0048012W

0048019W

Tribute® Retaining Wall System

Units & Sizes

Splitface * SRW	D x H x L (Nominal Size) Inches • Millimeters	SF/ Unit	Units/ Pallet	Lbs/ Unit	Lbs/ Pallet
	12 x 6 x 16 • 305 x 152 x 406	.67	36	75	2750
* FSW	10 x 6 x 16 • 254 x 152 x 406	.67	36	63	2313
	12 x 6 x 8 • 305 x 152 x 203	Face33 Return5 Total Unit83	72	37	2750

^{*} SRW (Segmental Retaining Wall Unit)

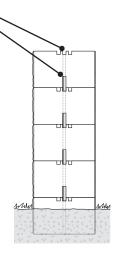
Wall Configurations

Tribute retaining walls with pins:

Each Tribute unit has a unique three-position pin placement system. Two pins per unit secure Tribute block in place.

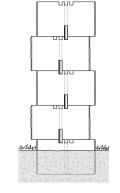
Tribute Two-Sided Vertical Face Seat Wall Installation

It is recommended that all seat walls have the first course buried for embedment. Starting on the second and succeeding courses, position all Tribute units with the pinholes over the middle-receiving channel. This will lock the units in a vertical position. Seat walls should not exceed a height of 36".



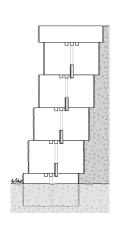
Tribute Two-Sided Recessed Face Seat Wall Installation

Place every course on the opposite receiving channel than the previous. This will give your Tribute Retaining Wall System a three dimensional look.



Tribute Set Back Retaining Wall Installation

Position pinholes of each successive Tribute unit over the rear-receiving channel on the lower unit. This placement will give your Tribute wall an approximate 7° set back.



^{*} FSW (Free Standing Wall Unit)

[•] Rustic texture products are available in all colors (Made to Order).

 $[\]bullet$ Calculate the number of Tribute full units needed: SF x 1.5

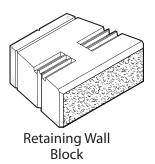
Tribute® Retaining Wall System

Seat Wall and Column Design

Finished Ends and Corners on Tribute Two-Sided Seat Wall Installations

At your desired seat wall starting point, place one half block with a split front and back (Figure 2). Next, install full units side-by-side for the length of the seat wall. End the course by placing another half block with a split surface front and back.

Second course: Use retaining wall adhesive to hold all end pieces securely in place. Continue laying standard units side-by-side, and install the other 1/4 return unit at the end of the seat wall following the same instructions. Continue building successive courses by repeating instructions above, alternating each 1/4 return end unit and using adhesive for proper stability. When the seat wall is finished to the proper height, adhere caps for a finished effect.



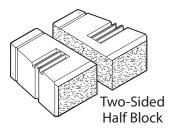






Figure 2 Tribute Two-Sided Seat Wall



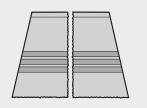
Courses 1,3,5...

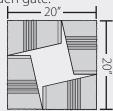


Courses 2,4,6...

Constructing Columns and Pillars with Tribute units:

Split Tribute units in half (as shown). Place four half units per course in alternating running bond pattern. Apply concrete adhesive between each course as you construct the pillar. The hollow area inside a pillar can accommodate electrical conduit for a light or a wood 4" x 4" post to support a trellis, light or garden gate.







Tribute Smooth Retaining Wall Systems offer a clean aesthetic. Featuring multiple pin grooves on the top surface, these units allow a combination of retaining and freestanding wall options. Tribute Smooth units can be efficiently split in half in the field to construct pillars and wall accents.



product resources

STANDARD COLORS & SMOOTH FINISH







Enlighten





Reflection* Majestic



*Pricing may vary regionally.

PRODUCT NUMBERS Smooth Face -10 1/8" x 6" x 15 5/8" Enlighten 0076036 Majestic 0076030 Reflection 0049204 Timeless 0076027 0049200 Vision Smooth Face Corner -10 1/8" x 6" x 15 5/8" Enlighten 0076037 0076031 Majestic Reflection 0049206 0076028 Timeless Vision 0049201 Tribute Smooth, MAJESTIC mooth Cap, REFLECT

Units & Sizes

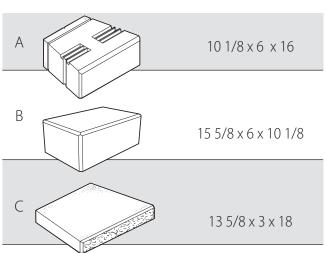
Tribute® Smooth Retaining Wall Systems

Tribute Smooth offers a clean aesthetic. Featuring multiple pin grooves on the top surface, these units allow a combination of retaining and freestanding wall options.

Note: See current Landscape Catalog for available colors

Smooth

DxHxL (Inches)





A. Block

SF/Unit	Units/Pallet	Lbs./Unit	Lbs./Pallet
.65	36	76	2750

B. Column/Corner Unit

SF/Unit	Units/Pallet	Lbs./Unit	Lbs./Pallet
.65	52	76	3952

C. Cap

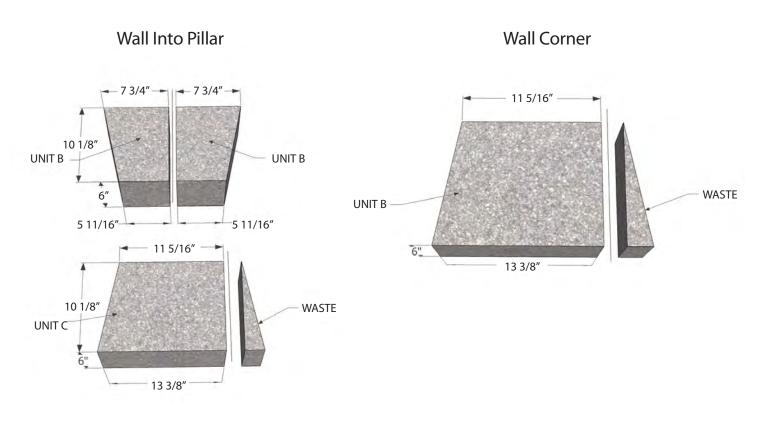
SF/Unit	Units/Pallet	Lbs./Unit	Lbs./Pallet
N/A	66	52	3461

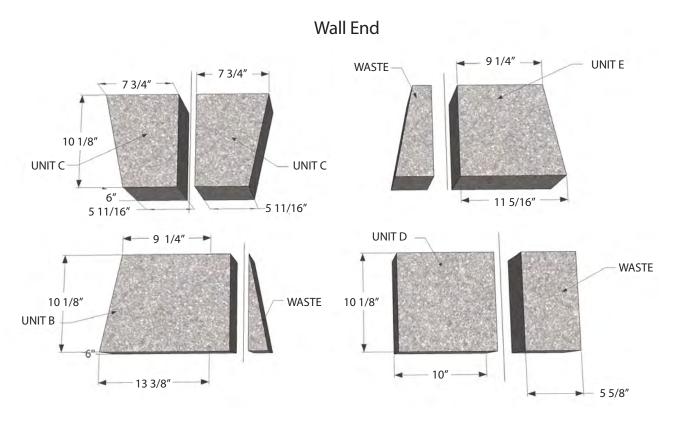




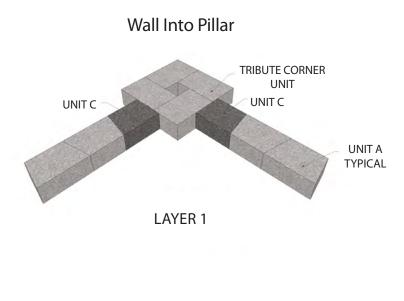


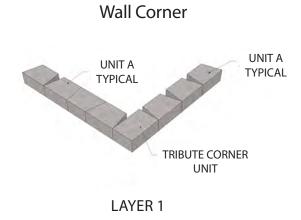
Cutting Guide

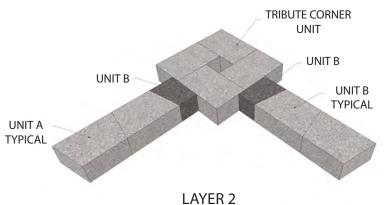


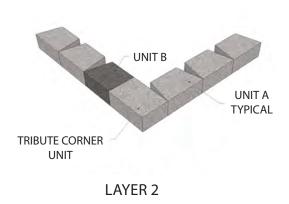


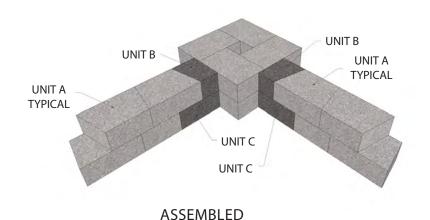
Assembly

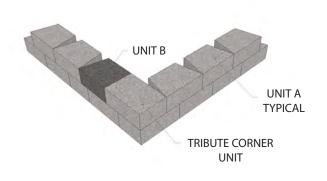






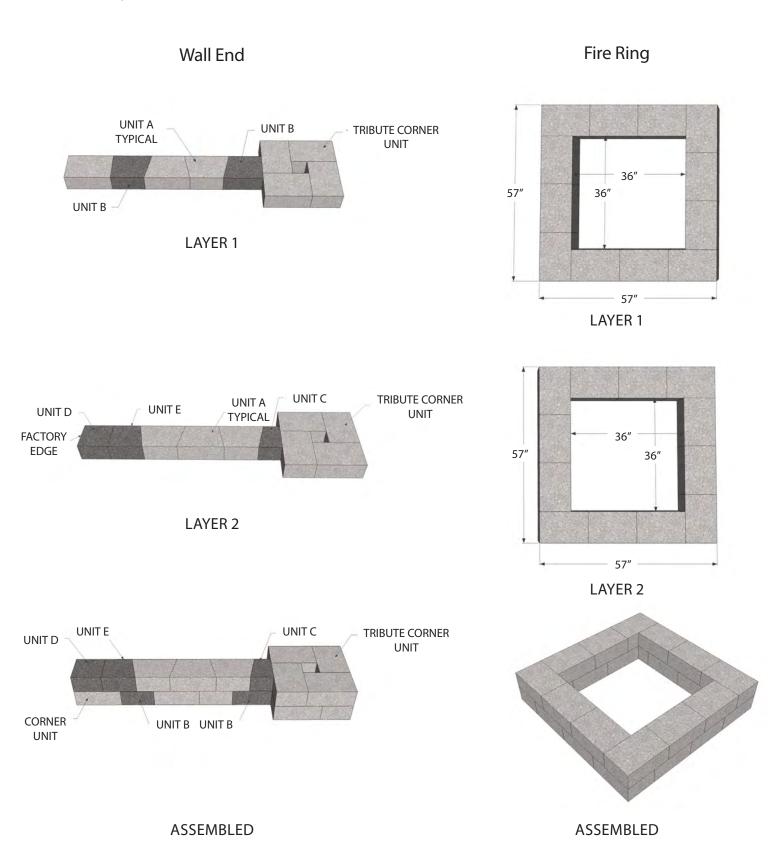






ASSEMBLED

Assembly



Winston® Straight Retaining Wall System

Winston Straight Retaining Wall Systems are manufactured with a rear lip, forming a setback design for simplified installations.



Scan for additional product resources

STANDARD COLORS & SPLIT FACE FINISH









October Oak

Canyon Brown





Winston Tri-Split Retaining Wall Systems offer traditional aesthetic and feature a rear lip system, forming a setback design for simplified installations.



Scan for additional product resources

STANDARD COLORS & FINISH



Gray





Canyon Brown

Winston® Retaining Wall Systems

Units & Sizes

^	D x H x L (Nominal Size) Inches • Millimeters	SF/ Unit	Units/ Pallet	Lbs/ Unit	Lbs/ Pallet
	12 x 6 x 17½ • 305 x 152 x 445 Straight	.73	45	73	3340
	12 x 6 x 8¾ • 305 x 152 x 222 Straight Corner	Face36 Return5 Total Unit86	90	36	3340
	12 x 6 x 16 • 305 x 152 x 406 Tri-Split	.67	45	65	2975
	12 x 6 x 8 • 305 x 152 x 203 Tri-Split Corner	Face36 Return5 Total Unit86	90	31	2790

Note: Winston unit lip is 1" deep.

^{*}This product is only available in select markets. Contact your County Materials' representative for details.



Integrity® Retaining Wall System

The Integrity Retaining Wall System is a practical solution for even challenging applications, including multi-level terraces and slope protection. The Integrity wall system is manufactured to ensure efficient installation, increased stability, and lasting durability.



Scan for additional product resources

STANDARD COLORS & SPLIT FACE FINISH













Canyon Brown

Timeles

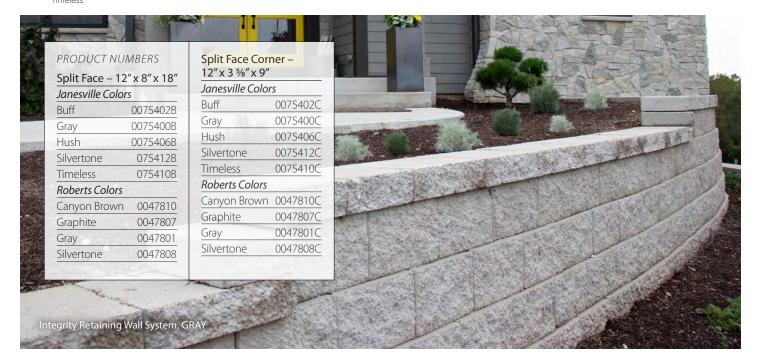
RUSTIC FINISH



Rustic texture products are available in all colors (Special Order).



Integrity Retaining Wall System, GR



Integrity™ Retaining Wall System

Units & Sizes

Splitface	Rustic	D X H X L (Nominal Size) Inches • Millimeters	SF/ Unit	Units/ Pallet	Lbs/ Unit	Lbs/ Pallet
		12 x 8 x 18 • 305 x 203 x 457 Standard	1	36	80	2925
		12 x 8 x 9 · 305 x 203 x 228 Standard Corner	Face5 Return66 Total Unit - 1.16	72	40	2925



County Block® Retaining Wall System

County Block Retaining Wall Systems feature a split face finish and offer an ideal solution for planting beds, steps, or multi-level terraces.



Scan for additional product resources

STANDARD COLORS & SPLIT FACE FINISH







Gray

Swiss Mocha

Silvertone





Canyon Brown

Timeles

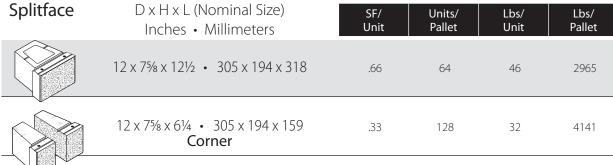
RUSTIC FINISH



Silvertone

Rustic texture products are available in all colors (Special Order).

Units & Sizes



- Calculate the number of:
 - County Block Standard units needed: SF x 1.5
- Calculate the equal number of both sizes blended into a County Block wall: SF divided by 1.61

Rib Rock Landscape Block can easily construct walls from 6 to 20 feet-high with additional site-specific engineering. Each block is manufactured with an interlocking design for simplified installation and enhanced security.



Scan for additional product resources

STANDARD FINISHES



Dry Stack Texture



Rough Texture





Units & Sizes

Available in Rough or Dry Stack Textures	D x H x L (Nominal Size) Inches	Face SF/Unit	Units/ Pallet	Approx. Lbs/Unit	Lbs/Pallet	Dry Stack Face Product Number	Rough Face Product Number
1 – 6" PVC Drain Block 948 (PVC)	23 x 24 x 48	8	2	1800	3645	004194PVC	004184PVC
2 – 48" Regular Block (48T)	23 x 24 x 48	8	2	1800	3645	004194T	004184T
3 – 44" Short Key Block (44K)	23 x 24 x 44	7.32	2	1750	3545	004194T44	004184T44
4 – 52" Long Key Block (52K)	23 x 24 x 52	8.66	2	2200	4445	004194T52	004184T52
5 – Base Block (No Channel) (BB)	27 x 24 x 48	8	2	2800	5645	004195SB	004185SB
6 – Half Block (HB)	23 x 24 x 24	4	2	1100	2245	004196	004186
7 – Half Corner Block Left (24L)	23 x 24 x 24	8	2	1200	2445	004197HL	004187HL
8 – Half Corner Block Right (24R)	23 x 24 x 24	8	2	1200	2445	004197HR	004187HR
9 – Full Corner Block Left (48L)	27 ¹ / ₂ x 24 x 52	12	2	2320	4685	004197L	004187L
10 – Full Corner Block Right (48R)	27 ¹ / ₂ x 24 x 52	12	2	2320	4685	004197R	004187R
11 – Cap Regular	25 x 7 x 48	2.33	4	440	1805	004198	004198
12 – Cap Corner Left	25 x 7 x 48	2.33	4	440	1805	004198L	004198L
13 – Cap Corner Right	25 x 7 x 48	2.33	4	440	1805	004198R	004198R
14 – Cap 2-Sided – Face & Back	25 x 7 x 48	2.33	4	440	1805	004199	004199
15 – Cap 3-Sided – Face, Back & End	25 x 7 x 48	2.33	4	440	1805	004199RL	004199RL
16 – TOP Block - 48" Regular (48TB)	23 x 24 x 48	8	2	1540	3645	00419900DT	00419900RT
17 – TOP Block - Half Block (24TB)	23 x 24 x 24	4	2	1100	2245	00419906DT	00419906RT
18 – TOP Block - Full Corner Right (48RTB)	27 ¹ / ₂ x 24 x 52	12	2	2020	4085	00419914DT	00419914RT
19 – TOP Block - Full Corner Left (48LTB)	27 ¹ / ₂ x 24 x 52	12	2	2020	4085	00419912DT	00419912RT
20 – TOP Block - Half Corner Left (24LTB)	23 x 24 x 24	8	2	1240	2525	00419908DT	00419908RT
21 – TOP Block - Half Corner Right (24RTB)	23 x 24 x 24	8	2	1240	2525	00419910DT	00419910RT
22 – TOP Block - 44" Short Key (44TB)	23 x 24 x 44	7.32	2	1400	2845	00419902DT	00419902RT
23 – TOP Block - 52" Long Key (52TB)	23 x 24 x 52	8.66	2	2100	4245	00419904DT	00419904RT



Rib Rock Rough Texture

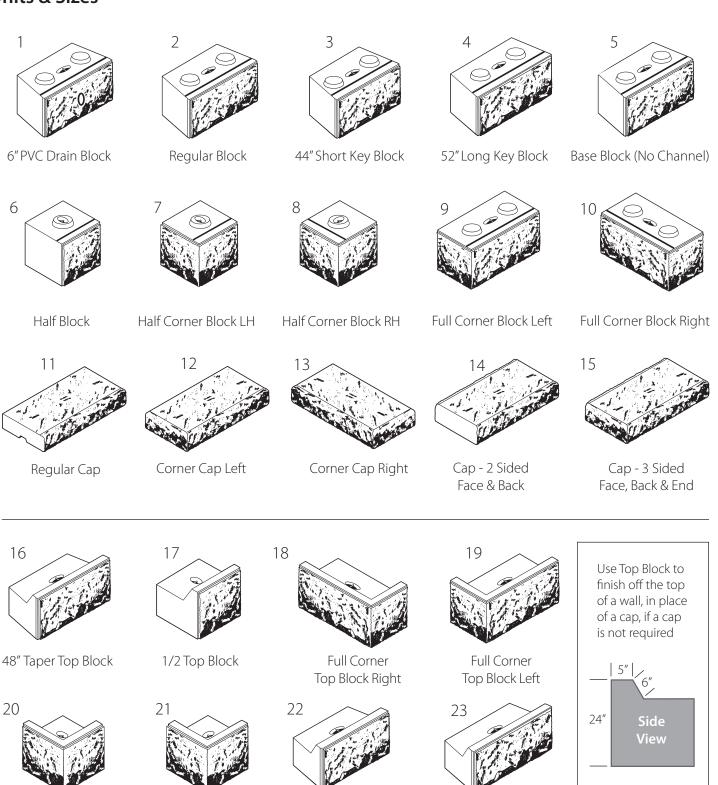


Rib Rock Dry Stack Texture

^{*} The dimensions of all block do not include the face textures. The face textures extend away from the block and will vary from 1-3 inches.

^{*} Cap style is the same for Rough or Dry Stack textures.

Units & Sizes



(Dimensions shown are Nominal Sizes)

52" Long Key

Top Block

Half Corner

Top Block Left

Half Corner

Top Block Right

44" Short Key

Top Block

Units & Sizes

Rib Rock	D x H x L (Nominal Size) Inches	Face SF/Unit	Units/ Pallet	Approx. Lbs/Unit	Lbs/Pallet	Dry Stack Face Product Number	Rough Face Product Number
24 – Light Block (48LB)*	23 x 24 x 48	8	2	1800	3645	004194LIT	004184LIT
25 – Sloped Block Right (48SR)*	23 x 24 x 48	5	2	1545	3135	004194SR	004184SR
26 – Sloped Block Left (48SL)*	23 x 24 x 48	5	2	1545	3135	004194SL	004184SL
27 – Half High - 48" Regular Block (HH48)**	23 x 12 x 48	4	4	900	3645	004194THH	N/A
28 – Half High - 44" Short Key Block (HH44)	23 x 12 x 44	3.66	4	875	3545	004194T44HH	N/A
29 – Half High - 52"Long Key Block (HH52)**	23 x 12 x 52	4.33	4	1100	4445	004194T52HH	N/A
30 – Half High - Base Block (No Channel) (HHBB)**	27 x 12 x 48	4	4	1400	5645	004195SBHH	N/A
31 – Half High - Half Block (HHHB)**	23 x 12 x 24	2	4	550	2245	004196HH	N/A
32 – Half High - Half Corner Block Left (HH24L)**	23 x 12 x 24	4	4	600	2445	004197HLHH	N/A
33 – Half High - Half Corner Block Right (HH24R)**	23 x 12 x 24	4	4	600	2445	004197HRHH	N/A
34 – Half High - Full Corner Block Left (HH48L)**	27½ x 12 x 52	6	4	1160	4685	004197LHH	N/A
35 – Half High - Full Corner Block Right (HH48R)**	27½ x 12 x 52	6	4	1160	4685	004197RHH	N/A

^{*}NEW Sizes

^{**}Dry Stack Texture Only

Units & Sizes











End Block Right

NEW Items!



Half High Regular Block



Half High 44" Short Key Block



Half High 52" Long Key Block



Half High Base Block (No Channel)



Half High Half Block



Half High Half Corner Block LH



Half High Half Corner Block RH



Half High Full Corner Block Left

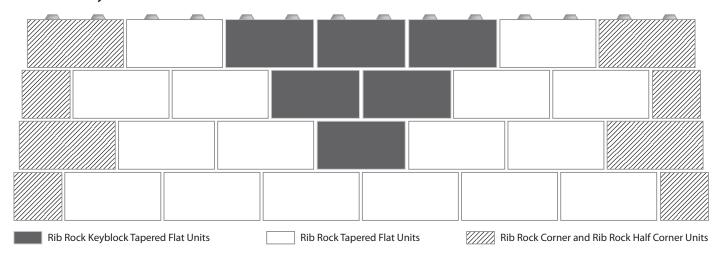


Half High Full Corner Block Right

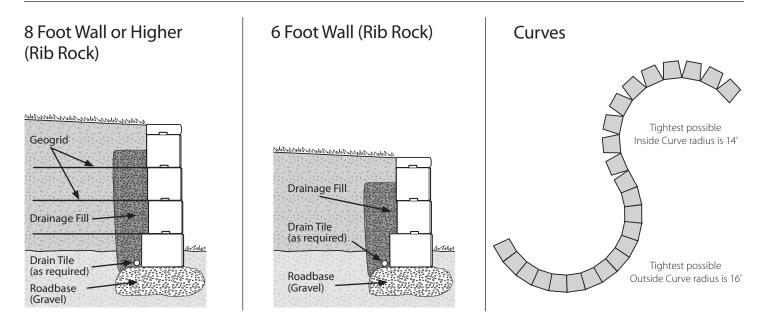
Note: Items 27-35 are only available in the Dry Stack texture

Installation

Rib Rock Keyblock Installation



- Short Key Block are used on outside radius and on corners because you gain length due to the 2" set back on every block.
- Long Key Block are used on inside radius because you lose length due to the 2" set back on every block.



Note: Site conditions may require Geogrid at 6'. Refer to site specific Engineering section

Engineering

Oversize Rib Rock Landscape block can easily make walls up to 6 feet high. For walls over this height, geogrid and site specific engineering will be required. Terracing is another alternative to reach desired wall heights with little or no need for soil reinforcement. Engineering may still be required for local specifications and proper permitting.

Engineering is available for oversize wall projects in the lower 48 states. Call a County Materials' representative at 800-289-2569 for information.

Related Retaining Wall Products

Adhesive

Product	Case Qty.
Techniseal RG+ Adhesive 10 oz.	12
Techniseal RG+ Adhesive 28 oz.	12

Landscape Fabric

Product
Mirascape 3'x 300' (per sq yd)
SRW 3'x 50' (per roll)
SRW 3'x 300' (per roll)
SRW 4'x 300' (per roll)
SRW 6'x 300' (per roll)
SRW 12'x 300' (per roll)

Geogrid

Product
SRW 3-6'x 50' (per roll)
SRW 3- 6'x 150' (per roll)
SRW 3- 12'x 150' (per roll)
SRW 5- 6'x 150' (per roll)
SRW 7- 12'x 150' (per roll)

Universal Wall Caps

Splitface	D x H x L (Nominal Size)	SF/	Units/	Lbs/	Lbs/
	Inches • Millimeters	Unit	Pallet	Unit	Pallet
	13% x 3 x 18 - 12½ • 346 x 76 x 457 - 317.5 Tapered	-	63	50	3195

Notes:

- Splitface on front and back)
- Rustic texture products are available in all colors (Made to Order)

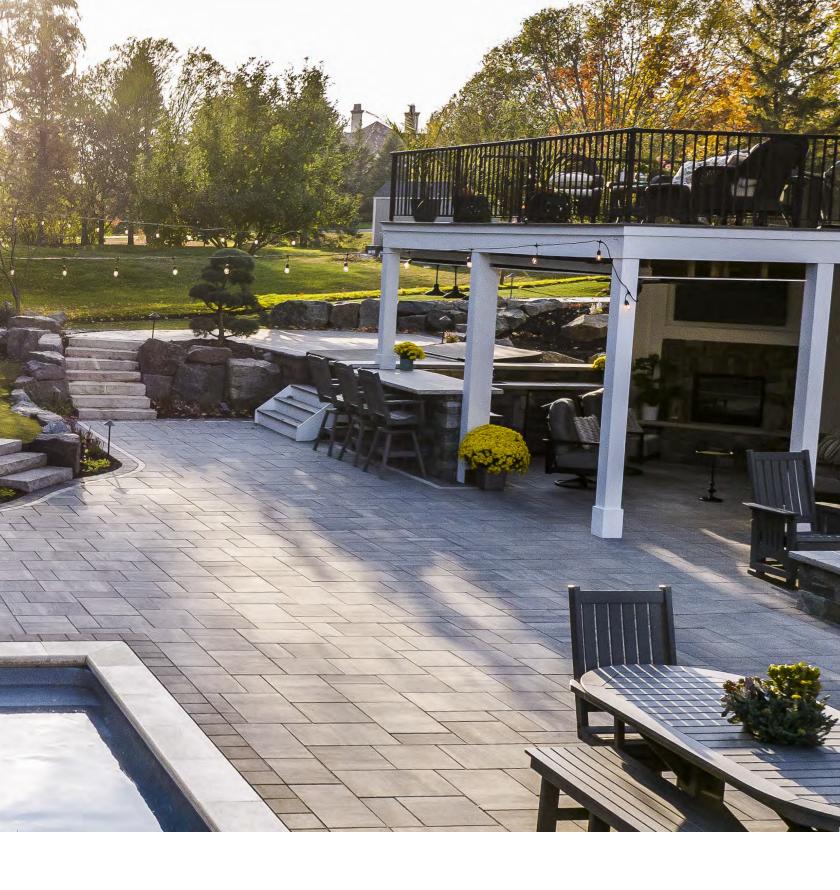
Straight Wall Caps

Splitface	D x H x L (Nominal Size)	SF/	Units/	Lbs/	Lbs/
	Inches • Millimeters	Unit	Pallet	Unit	Pallet
	13% x 3 x 18 • 346 x 76 x 457 Straight Wall Cap	-	66	54	3564

Notes:

- Splitface on one side
- Rustic texture products are available in all colors (Made to Order)





Unity™ Landscape Units

Unity units offer a smooth linear aesthetic and are ideal for constructing custom outdoor living features, including fireplaces, kitchens, built-in grills, seat walls, pillars, and more.



Scan for additional product resources

STANDARD COLORS & SMOOTH FINISH





Enlighten



Vision*



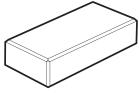


Majestic

Reflection*



Rectanglular $-9 \times 18 \times 4$ (4 sides finish)









Summit Stone® Landscape Units

Summit Stone Landscape Units' dimensional shape and multiple unit sizes make them ideal for constructing custom outdoor living features, including fireplaces, kitchens, built-in grills, seat walls, pillars, and more.



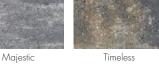
Scan for additional product resources

STANDARD COLORS & SMOOTH FINISH













Enlighten - NEW

Beckon - NEW

Haven

STANDARD COLORS & TUMBLED FINISH







Reflection

Vision



Enlighten NEW and Beckon NEW.

Also available in colors





Unity[™] and Summit Stone[®] Landscape Units

Units & Sizes

Medium	D x H x L (Nominal Size) 1edium Inches • Millimeters		Units/ SF	SF/ Layer	Layers/ Pallet	SF/ Pallet	Units/ Layer	Units/ Pallet	Lbs/ Unit	Lbs/ Pallet
No. of the control of	7¼ x 3% x 10% • 184 x 92 x 276	.27	3.70	5.40	8	43.20	20	160	21	3410
Large										
	7½ x 3% x 14½ • 184 x 92 x 368	.37	2.70	5.55	8	44.40	15	120	28	3410
Tapered										
	7¼ x 3% x 9% • 184 x 92 x 251	.27	3.70	6.48	7	45.36	24	168	17.5	2960
Unity Landsca	pe Block									
	9 x 18 x 4	.5	2	5	8	40	10	80	46.7	3786

Note: Available in Smooth or Tumbled

Palletization Table

Product	How Is This Product Palletized?
Summit Stone® Landscape Units - Medium	Individual sizes palletized separately
Summit Stone® Landscape Units - Large	Individual sizes palletized separately
Summit Stone® Landscape Units - Tapered	Individual sizes palletized separately

^{*}Thin Veneer Corners are packaged in a box

Unity[™] and Summit Stone® Landscape Units

Pillar Construction

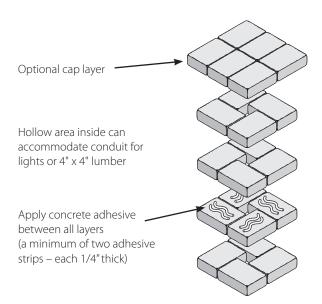
Decorative Pillars

Summit Stone® is designed to let you build decorative pillars as individual accents or in combination with small decorative walls. No cutting or fitting is required.

To make a pillar with Summit Stone, place units in alternating layers as shown in the illustration below. Make sure you build on level and well compacted ground and recommended base pad. (Ask a Summit Stone dealer for guidelines.)

Apply concrete adhesive between each course as you construct the pillar. Place adhesive on the touching ends and undersides of each cap unit.

The hollow area inside of each pillar can accommodate electrical conduit for a light or a wood 4" x 4" to support a trellis, a lamp post or a garden gate.

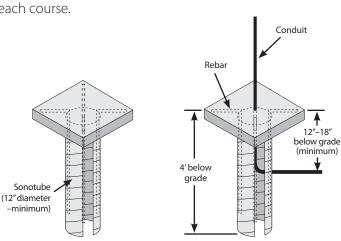


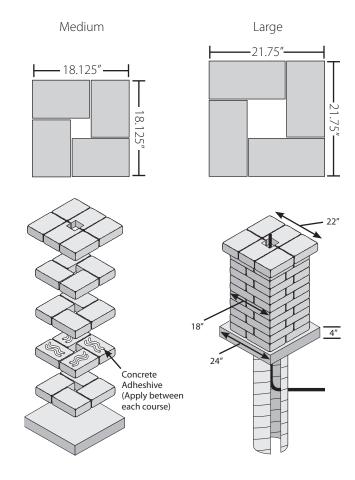
NOTE: Outside measurements of cap layer will be approximately 22"x 22". Post and wall heights should not exceed 36".

For decorative walls, columns and steps, 1 to 2 layers of Summit Stone units should be buried below grade for proper embedment.

Pillars with Electrical Conduit

- Sonotube must be placed 4' below grade.
- 24" x 24" x 4" concrete base is joined to the sonotube column with rebar.
- Conduit is placed 12" 18" below grade (min.).
- Place units in alternating layers as shown below.
- Build on level and well-compacted ground and recommended base pad.
- Apply concrete adhesive between each course.





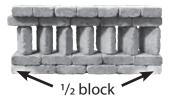
Unity[™] and Summit Stone® Landscape Units

Seat Walls, Alcoves and Tables

Seat Wall Patterns

Create Seat Walls that define the boundaries of your outdoor living patio spaces

1/2 block



7 block per lineal foot.

Seat Walls: Formula for calculating Linear Feet

Example: A 10-foot wall requires 70 block

Tables and Counters

Add functionality to your outdoor living space with a Summit Stone constructed table, storage space, bar, etc.



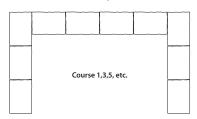
Special Features: Surrounds/Alcoves for Grills, Refrigerators, etc.

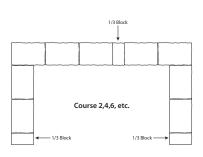
Enhance Your Outdoor Living Space

Outdoor kitchen appliances can be nestled into coves constructed of Summit Stone Tumbled Landscape Units, giving your outdoor living space an attractive, completed appearance.

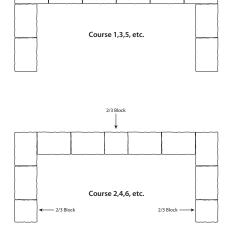


Alcove Layout #1

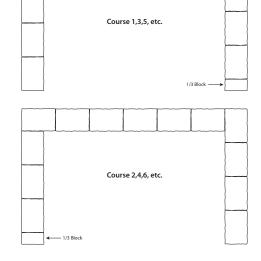




Alcove Layout #2



Alcove Layout #3



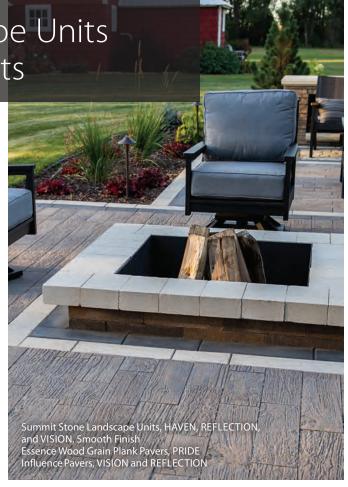
Summit Stone® Landscape Units Square & Circle Fire Pit Kits

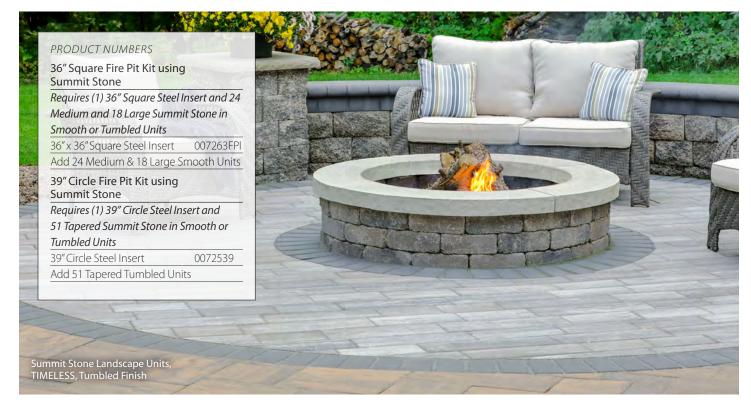
Our popular Summit Stone Landscape Units make great fire features. Square fire pit kits include a 51" x 51" x 11" square steel ring. Circle kits include a 39" diameter steel ring. Top off with a specially designed fire ring cap, and you will be ready to relax around your backyard fire with family and friends.



Scan for additional product resources







Summit Stone® Landscape Units Fire Pit Kits

Summit Stone Circular Fire Pit Design

The **Summit Stone Tapered Unit** can be used to design circular or square Fire Pits and Serpentine Walls. The Tapered Unit is available in 4 colors (Haven, Hush, Solace and Timeless) and sold by the unit.



39" Circle Fire Pit Kit Includes:

- 39" x 11" Metal Fire Ring (Rolled Steel no paint)
- 51 Summit Stone (Tapered) Landscape Units
- Available in either Smooth or Tumbled Texture
- Available in the following Summit Stone Colors Timeless, Hush, Solace, Vision, Reflection, Haven and Majestic

Fire Ring Cap (4 sections)



Summit Stone Landscape Units Square Fire Pit Kits

36" Square Fire Pit Includes:

- 36" x 36" x 11" Metal Fire Ring (no paint)
- 24 Summit Stone Medium Units
- 18 Summit Stone Large Units
- Available in either Smooth or Tumbled Texture
- Available in the following Summit Stone Colors – Vision, Enlighten, Beckon, Haven, Majestic, Timeless, Reflection



Unity™ Square Fire Pit Kits

Achieve sophistication with our Unity Square Fire Pit Kits. Kits include a 36"x 36"x 11" square steel fire ring. Add to your backyard or next design and you will be ready to relax around your backyard fire with family and friends.

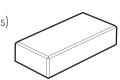


Scan for additional product resources

Square Fire Pit Kit Includes:

- 36" x 36" x 11" Steel Fire Ring
- 30 Unity Block
- Available in the following colors –
 Vision, Reflection, Majestic, Timeless, Enlighten





Unity Landscape Units, Square Fire Pit, TIMELESS

PRODUCT NUMBERS

36" Square Fire Pit Kit using Unity Landscape Block

Requires (1) 36" Square Steel Insert & (3) Unity Landscape Block

36" x 36" Square Steel Insert 007263FPI Add 30 Unity Landscape Block

Tribute® Smooth Landscape Units Square Fire Pit Kits

Tribute Smooth units make refined fire features. Kits include a 36" x 36" x 11" square steel fire ring. Add to your backyard or next design and you will be ready to relax around your backyard fire with family and friends.



Scan for additional product resources

Square Fire Pit Kit Includes:

- 36" x 36" x 11" Steel Fire Ring
- 24 Smooth Tribute Corners
- Available in the following colors –
 Vision, Reflection, Majestic, Timeless, Enlighten



TRIBUTE® SMOOTH SIZES
D x H x L (Inches)



Rectanglular $-15^{5/8}$ x 6 x $10^{1/8}$ (4 sides finish)

PRODUCT NUMBERS

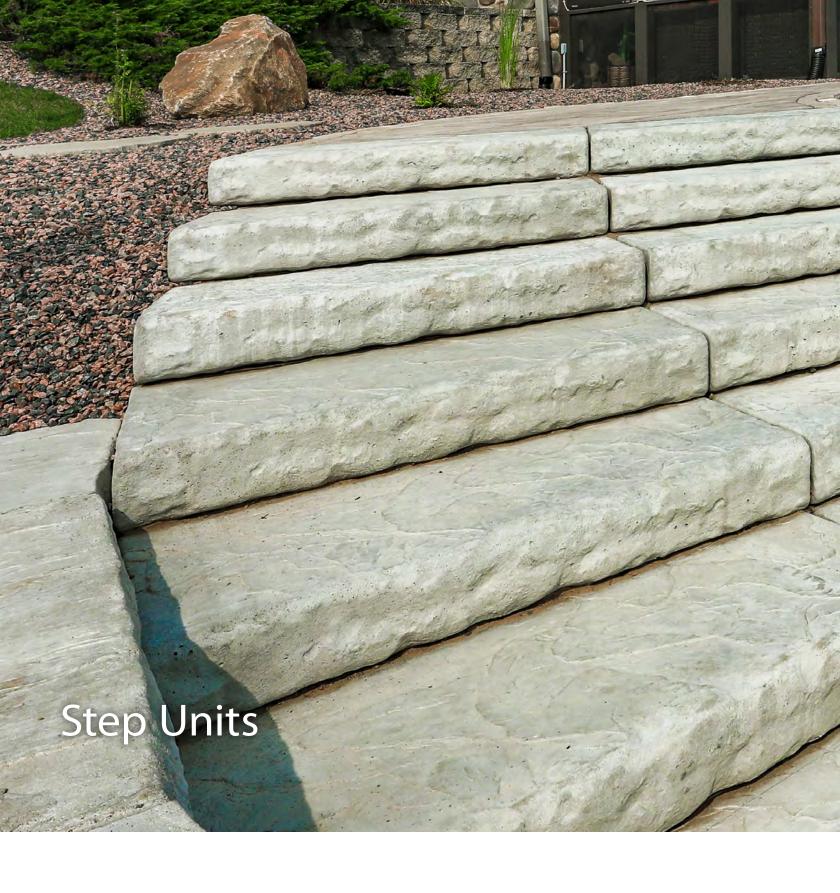
36" Square Fire Pit using Tribute Smooth

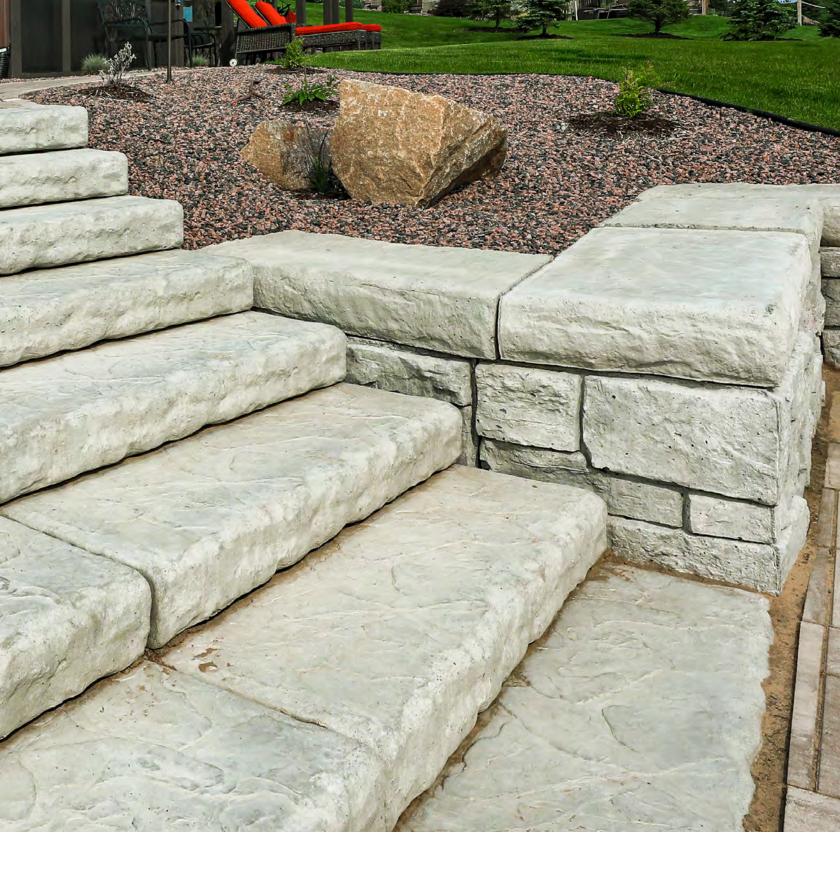
Requires (1) 36" Square Steel Insert & (24) Tribute Smooth Corners

36" x 36" Square Steel Insert 007263FPI Add 24 Tribute Smooth Corner Color Units Majestic, Reflection, Timeless, Vision

Tribute Smooth Landscape Units,

Square Fire Pit, ENLIGHTEN





Passageways® Step Units

Featuring a natural textured face, clean lines, and a large modular shape, Passageways Step Units enhance installation and offer endless applications. Add steps to raised patios, front entrances, terraced walks, and steep slopes.



Scan for additional product resources

STANDARD COLORS & FINISH





Vision

Beckon - NEW







Reflection Dream

Timeless - NEW

GLOW PATH TECHNOLOGY™ - NEW



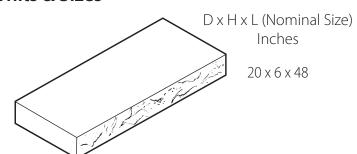


Reflection

owned by Glow Path Pavers



Units & Sizes



Units/	Lbs./	Lbs./
Pallet	Unit	Pallet
3	488	1490

Passageways Step Units, VISION

Note: Textured face on both sides of the step.

PRODUCT NUMBERS

20" x 6" x 48"

Beckon

Dream

Vision

Vision

Reflection

Timeless

Passageways Step Unit -

Passageways "Glow in the Dark" Step Unit -20" x 6" x 48" Reflection

0070145

0070140

0070141

0070143

0070144

007GP045

007GP046

Landscape Step Units

Landscape Step Units' smooth stepping surface provides solid and safe footing. Their size speeds up step installation time and reduces the amount of retaining wall block needed.



Scan for additional product resources

STANDARD COLORS & FINISH







October Oak

Units & Sizes



andscape Step Units, OCTOBER OAK

Units/	Lbs./	Lbs./
Pallet	Unit	Pallet
10	164	

PRODUCT NUMBERS

Landscape Step Unit -

002688R

002694R

002696R

002692R

002690R 002699R

14" x 6" x 24"

Graphite

Silvertone

Vision

Gray October Oak

Canyon Brown

Note: Vison and Reflection available with Glow Path Technology

PRODUCT NUMBERS

Oversize Landscape 3-Sided Step Unit -

004188G3

004188C3

004188P3

25" x 6 1/4" x 48"

Gray

Camel

Portobello



Gray





Oversize Landscape Step Units

Oversize Landscape Step Units are manufactured with a natural textured surface. Their larger size covers more square footage than alternative step options, reducing installation and labor costs.



Scan for additional product resources

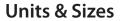
STANDARD COLORS & FINISH



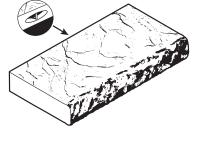




Portobello



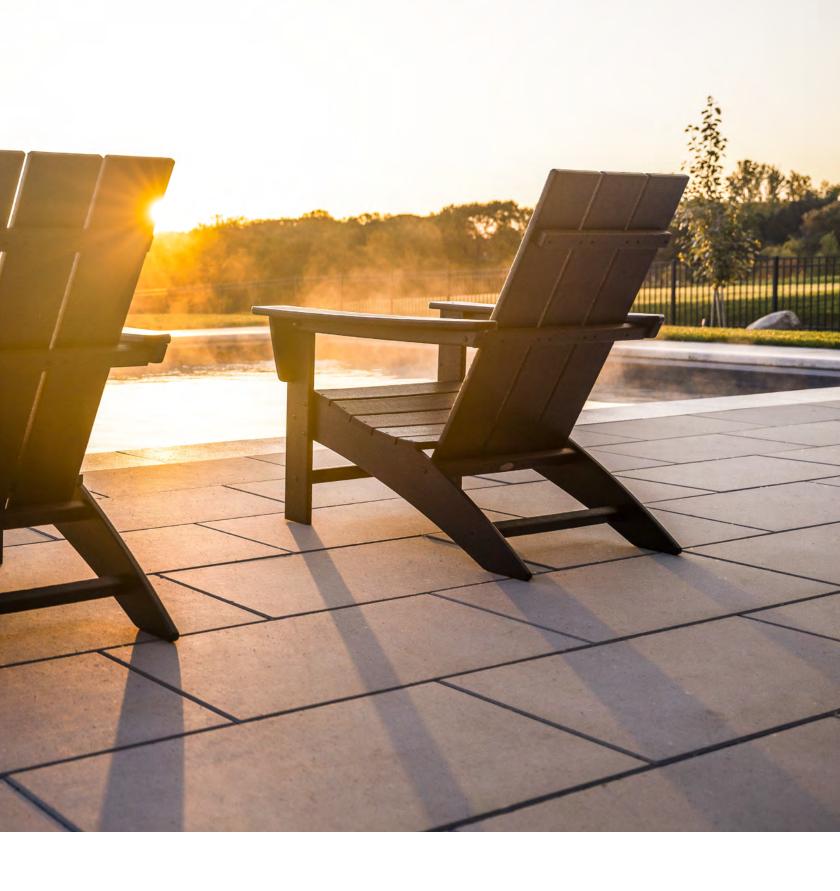
D x H x L (Nominal Size) Inches 25 x 61/4 x 48



Oversize Landscape Step Units, CAMEL County Block Retaining Wall System, TIMELESS

Units/	Lbs./	Lbs./
Pallet	Unit	Pallet
4	760	3085





Prestige Pool Coping Pavers

Prestige Pool Coping Pavers, with its longer, bullnose shape, is uniquely suited for pool coping applications to finish pool edges with refined style. Units are also suitable for steps, freestanding wall caps, and more.



Scan for additional product resources

STANDARD COLORS & BURNISHED FINISH







Beckon Galaxy

Units & Sizes

PRESTIGE[™] SIZE D x H x L (Inches)



		10		
			PRODUCT	IUMBERS
		1	Prestige Co	ping
		1	Bullnose –	
		1	24" x 14" x 2	
			Pool Coping Beckon	0071200
			Galaxy	0071200
			Sea Salt	0071202
	17 18 19		Sea Sait	00/1204
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Grand XL Disco	ver Pavers, VI oping Pavers,	ISION		

LF/Unit	Units/allet	Lbs./Unit	Lbs./ Pallet
2	16	78	1253

Crest™ Bullnose Pavers

Crest Bullnose Pavers are the ideal finishing touch for steps, pillars, walls, and pool copings

STANDARD COLORS & SMOOTH FINISH





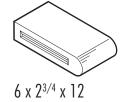
Vision Reflection



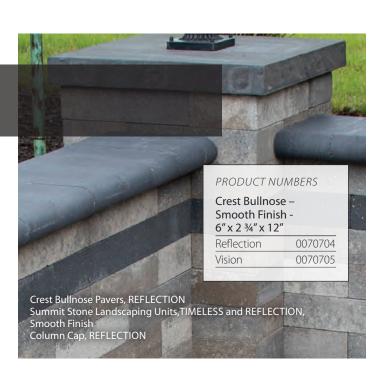
product resources

Units & Sizes CREST™ SIZE

D x H x L (Inches)



SF/Unit	Units/SF	Lbs./Unit	Units/ Cube	Lbs./ Cube
.5	2	15.36	280	4350



Universal Column & Seat Wall Caps

Along with our Universal Wall Caps, we also offer the following accent products to crown your Retaining Wall project. Your backyard fire ring will attain added beauty with our four-section Fire Ring Cap.



Note: Seat Wall Caps Seat Wall Caps can also be used for



Scan for additional product resources

coping and step treads. • Fire Ring Caps

STANDARD COLORS & SMOOTH FINISH





Reflection

COLUMN & WALL CAP SIZES D x H x L (Inches)

Column Caps - NEW Column Caps





24 x 23/4 x 24





 $13^{7/8} \times 2^{3/4} \times 29^{3/4}$

30 x 2^{3/4} x 30

PRODUCT NUMBERS

Column Cap -24" x 24" x 2 3/4"

Reflection	380610
/ision	380611

Column Cap -30" x 30" x 2 3/4"

Reflection	380620
Vision	380621

Seat Wall/Coping/Tread

- IT X 30 X 2 /4	
Reflection	380614
Vision	380615





PRODUCT NUMBERS Wall Accents -

Burnished Wall Accents

STANDARD COLORS & SMOOTH FINISH





Galaxy



Scan for additional product resources

ACCENT SIZE D x H x L (Inches)

4 x 4 x 16

		-			Bu	urnished %" x 3 %"	Finish –	
	ished Wall				Ga	alaxy Sea	007	79900
			all Caps, RE Corner Co		Sa	lt	007	79902
	PHITE	wan and	Connei Co	Territori,			We have the	
	V 18	48%	A STATE OF				W. VIA	TV B
SF/	Units/	SF/	Lavers/	SF/	Units/	Units/	Lbs./	

SF/	Units/	SF/	Layers/	SF/	Units/	Units/	Lbs./
Unit	SF	Layer	Pallet	Pallet	Layer	Pallet	Pallet
.39	2.56	11.7	5	58.5	30	150	2500

Fire Pit Caps – Circle

Our popular Summit Stone Landscape Units make great Fire Ring Cap. We now offer a "kit" that includes a steel interior ring to build one with a 39" Diameter.

Top it off with a specially designed Fire Ring Cap, and you will be ready to relax around your backyard fire with family and friends.

Note: Our cast stone products (Fire Ring Cap, Column Cap, Seat Wall Cap and Passageways Step Units) all have matching face textures.



Scan for additional product resources



STANDARD COLORS & SMOOTH FINISH



Vision

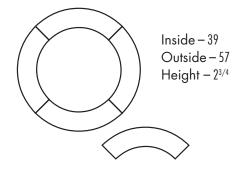


Reflection

Fire Ring Cap Includes:

- 4 section Fire Ring Cap
- Available in either Vision or Reflection color

FIRE RING CAP SIZE 4 pieces assembled (Inches)





Fire Ring Cap, VISION Summit Stone Landscape Units, Circle Fire Pit Kit, TIMELESS, Smooth Finish



Fire Ring Cap, REFLECTION Summit Stone Landscape Units, Circle Fire Pit Kit, TIMELESS, Tumbled Finish

Alliance Outdoor Lighting

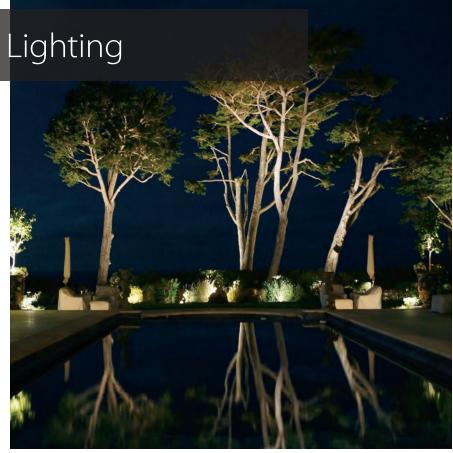
Scan for additional

product resources

Bring your landscape investment to life (after hours) – with high-quality, option-packed Alliance Outdoor Lighting products:

- Low Voltage Light Paths
- Ground Lights
- Bullet Lights
- Post Lights
- Wall Lights
- Sconces
- RGB Color Changing and Dimming options with Bluetooth (BT) Technology
- · And Much More...

Please contact one of our locations or your local representative to plan your lighting project.





Locations

Appleton

3019 W Prospect Ave. Appleton, WI 54914 920-734-7733

Eau Claire

1211 Menomonie St. Eau Claire, WI 54703 715-834-7701

Green Bay

2448 Century Rd. Green Bay, WI 54303 920-497-2416

Hazelhurst

6857 US Hwy 51 Hazelhurst, WI 54531 715-356-1174 Holmen

611 Empire St. Holmen, WI 54636 608-526-9020

Madison

6399 Nesbitt Rd. Madison, WI 53719 608-845-8636

Marathon

205 North St. Marathon, WI 54448 715-848-1365

Oak Creek

7200 S 10th St. Oak Creek, WI 53154 414-764-8700 Rice Lake

3200 S Main St. Rice Lake, WI 54868 715-234-8144

Roberts

1203 70th Ave. Roberts, WI 54023 715-749-4121

Stevens Point

2000 Patch St. Stevens Point, WI 54481 715-341-0991

Milwaukee/Butler

5000 North 124th Street Milwaukee, WI 53225 262-896-0755 Weston

9303 Schofield Ave. Weston, WI 54476 715-359-7731

Wisconsin Rapids

2310 N 40th St. Wisconsin Rapids, WI 54494 715-423-7339

Contact Customer Service at (800) 242-7733 or visit our website at **countymaterials.com** for additional information about County Materials' Dealer Locations.

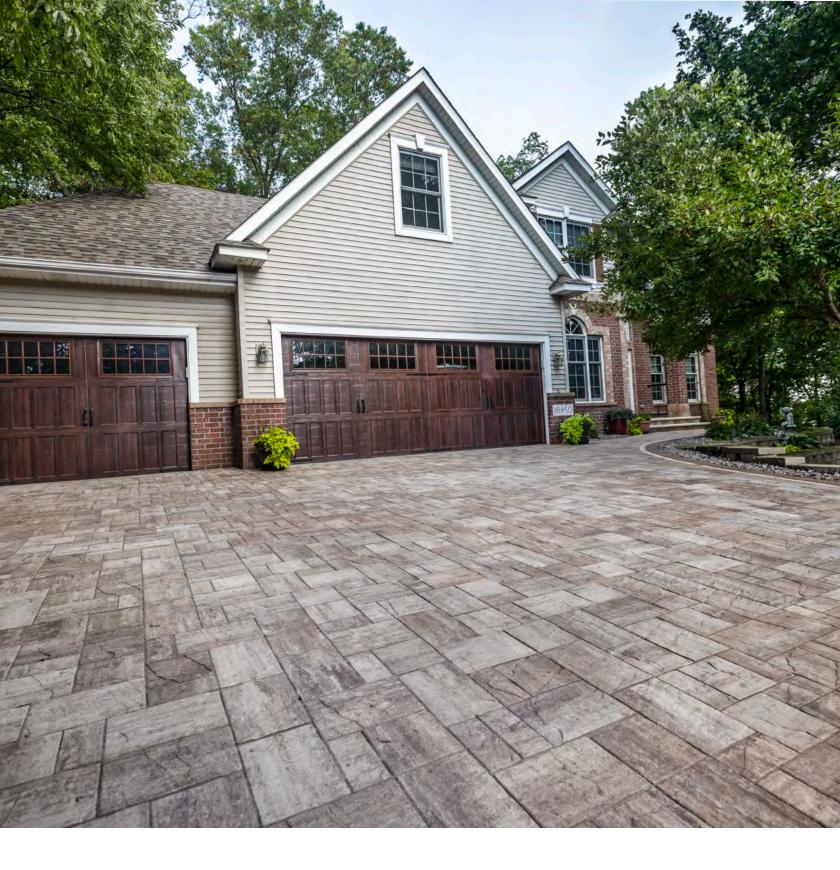




We value your business. Please contact yourCounty Materials' representative for specific information products and their availability in your area.









(800) 242-7733 countymaterials.com info@countymaterials.com

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