







# Landscape Products Specifications Guide

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COUNTY MATERIALS CORPORATION

Pure color pigments and fine aggregates are blended on the surface, providing vibrant, rich and long-lasting color.

Fine aggregates and dense concrete mix provide a smooth, refined surface.

Face-mix is integrally bonded to the base, offering exceptional durability and aesthetic design.

Base concrete mix features larger aggregates for high-compressive strength.

- High-density units resist cracking and damage from freeze-thaw cycles.
- Pavers and slabs are manufactured to meet industry standards for strength and absorption.
- County Materials pavers and slabs are backed by our customer warranty.

## Stunning Colors & Amazing Strength

County Materials Corporation utilizes Genesis Face-Mix Technology™ to manufacture beautifully designed pavers and slabs backed by the strength and longevity of quality concrete.

Genesis Face-Mix Technology provides more than surface beauty. Genesis ensures long-lasting color, superior strength and resistance, and unique surface textures. Our pavers and slabs repel stains and withstand everyday wear and tear.

The fine finish of these pavers features a permanent and integrally-blended layer of our high-strength concrete mix.

It's the perfect combination of vibrant color pigments and dense surface materials. Choose high-quality, long-lasting pavers and slabs without compromising design or aesthetics.

Each unit is designed to withstand the wear, tear, weathering and abrasion that occurs in a high-traffic area exposed to the elements. We concentrate the purest color pigments, finest aggregates, and densest

concrete mix in the top surface layer of each paving stone where it is visible and matters most.

What is the significance of Genesis? It's provenance, a beginning, carving potential into substance. County Materials' landscape products are designed to create a space where fond memories begin. Our team believes in offering quality products that invoke our customers to spend time in their inspiring outdoor living and gathering spaces.

County Materials' commitment to quality derives from our talented team of people who believe in delivering unparalleled craftsmanship, attention to detail, and customer service.

Our Genesis Face-Mix Technology produces high strength pavers and slabs with nonfading colors and natural beauty that stands the tests of time. County Materials' concrete pavers are inherently strong, and our Genesis Face-Mix Technology adds extra surface superiority to ensure customer satisfaction for years to come.





## 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).

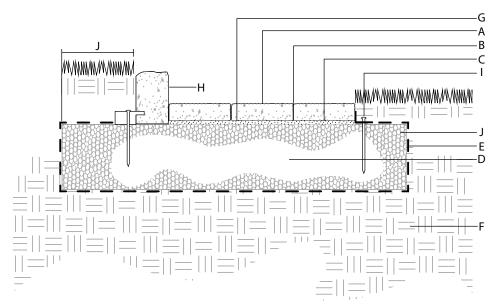
#### **Base Material**

- 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.

## Installation Guidelines-Interlocking Concrete Pavers



### 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).

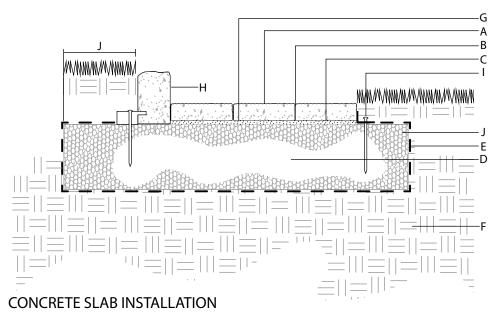
#### **Base Material**

- 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.

## Installation Guidelines- Concrete Slabs



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

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.

#### Joint Material

There are many different jointing materials specific to application requirements and desired results. Joint material should be completely removed from the surface of the pavers. ASTM C144 specifies natural sand as the paver jointing material for use with County Materials' concrete pavers, along with a sand joint stabilizer. Polymeric sands should not be used on pavers with heavily textured surface. Use of joint material must comply with all instructions provided by the joint material manufacturer, and the joint material 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 joint material with our concrete pavers.

VIBRATING PLATE ALERT! - To prevent scuffing on concrete paver and slab surfaces, County Materials recommends the use of a roller compactor or a vibrating plate compactor with a urethane mat between the plate and the paver or slab. County Materials will not be held responsible for compaction scuffs or burns on concrete pavers or slabs.

### Polymeric Haze

Polymeric haze from the use of polymeric joint sand may appear on concrete paver products if the sand was not installed properly or removed from the surface of the pavers properly. This does not, in any way, compromise the functionality or the structural integrity of the product or your installation. The hazing will weather away naturally with time and rain. Polymeric haze may be removed with an industry cleaner. County Materials accepts no responsibility or liability for the use of polymeric sand with our concrete pavers or any occurrence of polymeric haze or other undesired result.

## Care & Maintenance-Interlocking Concrete Pavers & Slabs

### **Washing Guidelines**

Seasonal maintenance is recommended for all County Materials pavers and slabs. 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 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 pavers and slabs.

#### Sealers

A concrete sealer application is not required on County Materials pavers and slabs but is an option. There are many different sealing agents specific to application requirements and desired results. Use of the sealing agent must comply with all instructions provided by the sealing agent manufacturer, and the sealing agent method must be performed on a separate mock-up panel not less than 7 feet by 7 feet prior to Buyer approval. County Materials accepts no responsibility or liability for the use of sealers on our 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.

### Compactor and Snow Removal Equipment

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. Also, snow removal equipment should have the proper spacing, bumper, and rubber blade guards to protect the surface of the pavers. County Materials accepts no responsibility or liability for damage caused by the use of compaction or snow removal equipment that may leave scuffs, burns or other markings on pavers.

# Paver Application, Palletization & Availability Table

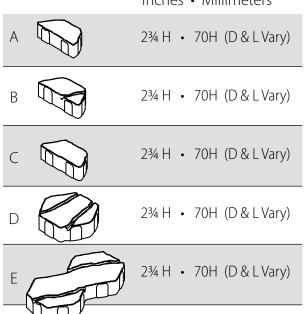
Pavers & Slabs	Vehic- ular Traffic	Pool Deck	Commercial	Pedestrian	How Is This Product Palletized?	Product Availability
Destination® Pavers		•		•	4 pc Combo (4 unique sizes / 9 face styles)	Stocked
Dimetta® Pavers	•	•	•	•	Individually palletized	Special Order
Discover™ Pavers	•	•	•	•	3 pc Combo	Stocked
Grand Discover™ Pavers		•		•	3 pc Combo	Stocked
Elements™ Paving Stones - Unit A	•	•	•	•	Individual sizes palletized separately	Stocked
Elements™ Paving Stones - Unit B	•	•	•	•	Individual sizes palletized separately	Stocked
Elements™ Paving Stones - Unit C	•	•	•	•	Individual sizes palletized separately	Stocked
Elements™ Paving Stones - Unit D	•	•		•	Individual sizes palletized separately	Stocked
Elements™ Paving Stones - Unit E		•		•	Individual sizes palletized separately	Stocked
Elements™ Paving Stones - Unit F		•		•	Individual sizes palletized separately	Stocked
Essence™ Wood Grain Plank Pavers	•	•	•	•	5 pc Combo	Stocked
Grand Milestone® Pavers		•		•	3 pc Combo	Stocked
Influence™ Pavers	•	•	•	•	5 pc Combo	Stocked
Skylands™ Concrete Deck Pavers		•		•	Individually palletized	Stocked
Tranquility® Pavers	•	•		•	5 pc Combo	Stocked
Vantage™ Pavers	•	•	•	•	3 pc Combo	Stocked
Grand Vantage™ Pavers		•		•	3 pc Combo	Stocked
H₂O Pro® Pavers Permeable Paver System - Unit A	•	•	•	•	Individual sizes palletized separately	Made to Order
H₂O Pro® Pavers Permeable Paver System - Unit B	•	•	•	•	Individual sizes palletized separately	Made to Order
H₂O Pro® Pavers Permeable Paver System - Unit C	•	•	•	•	Individual sizes palletized separately	Made to Order
Harmony™ Permeable Pavers	•	•	•	•	3 pc Combo	Made to Order
Renewable™ Pavers Permeable Paver System & Sandset Pavers	•	•	•	•	Individually palletized	Made to Order

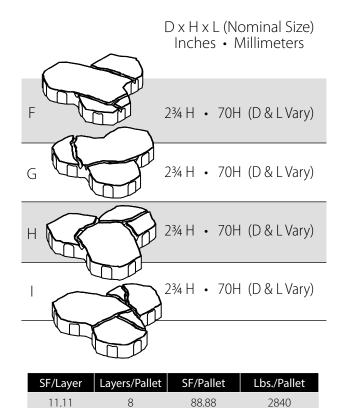


## Destination® Pavers

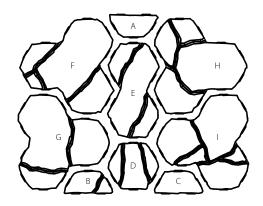
### Units & Sizes

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



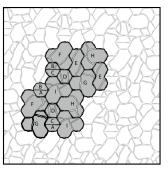


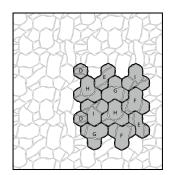
### Layer Configuration

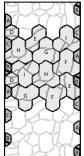


**Note:** Textured paver and patio stone surfaces require a buffer between the plate compactor and the paver surface to prevent scuffing. Refer to County Materials' Interlocking Concrete Paver or Slab Installation Guidelines, or contact County Materials for information.

### Installation Patterns





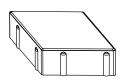


Sidewalk Installation Pattern

\* Approximately 57.5" in width

# Dimetta® Pavers

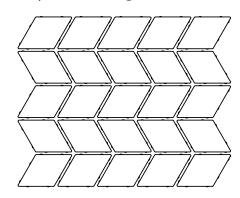
### **Units & Sizes**



DxHxL (Nominal Size) Inches • Millimeters 13 x 3\% x 7\% • 330 x 80 x 197

SF/Unit	Units/SF	SF/Layer		SF/Pallet		Units/ Pallet	Lbs/ Pallet
.37	2.7	9.25	8	74	25	200	2700

## Layer Configuration

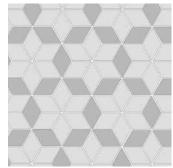


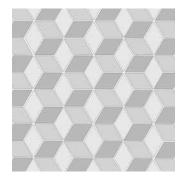
#### Notes:

- 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.
- Making (2) cuts from corner to corner on one unit allows for a multitude of additional pattern designs.
- When working around an object (i.e. firepit) make sure to use string lines for proper alignment, keeping joints and tips in line.
- Keep joints snug but not tight- Allow enough room to accommodate slight adjustment in units to keep joints in line, especially when multiple points come together in a pattern.

### Installation Patterns









# Discover™ & Grand Discover™ Pavers- New Product for 2020!

### **Units & Sizes**

#### **Discover Pavers**

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

 $8 \times 2\% \times 8 \cdot 196 \times 70 \times 196$ 

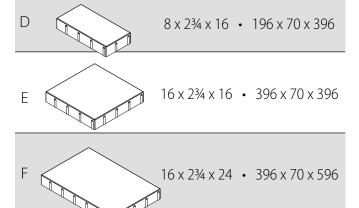
Α		4 x 2 <sup>3</sup> / <sub>4</sub> x 8 • 96 x 70 x 196
	$\wedge$	



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

#### **Grand Discover Pavers**

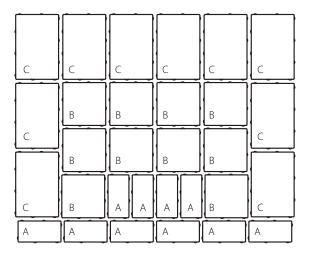
D x H x L (Nominal Size) Inches • Millimeters



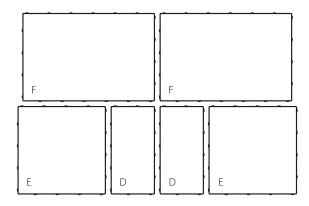
SF/Layer	Layers/Pallet	SF/Pallet	Lbs./Pallet
10.16	8	81.28	2600

### Layer Configurations

#### **Discover Pavers**

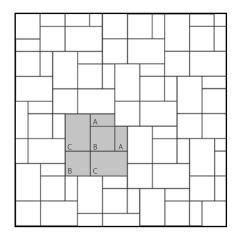


### Grand Discover Pavers

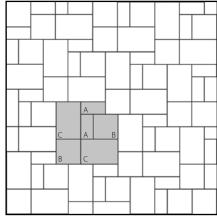


# Discover™ & Grand Discover™ Pavers- New Product for 2020!

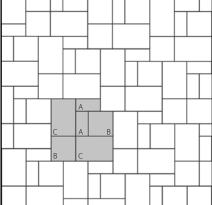
### Installation Patterns



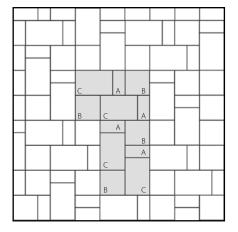
A, B & C Units Pattern #1 A-33% B-33% C-33%



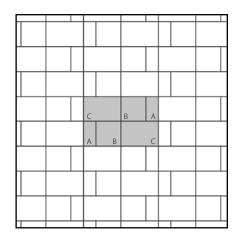
A, B & C Units Pattern #2



A-33% B-33% C-33%



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



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

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

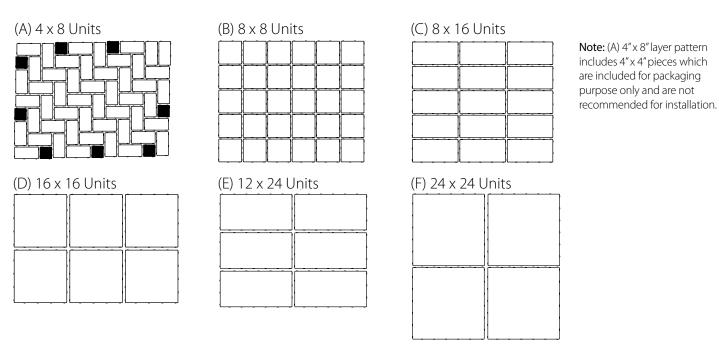
Discover Pavers units A, B and C shown in the patterns to the left can also be substituted with the Grand Discover Pavers units D, E and F.

# Elements™ Paving Stones

### Units & Sizes

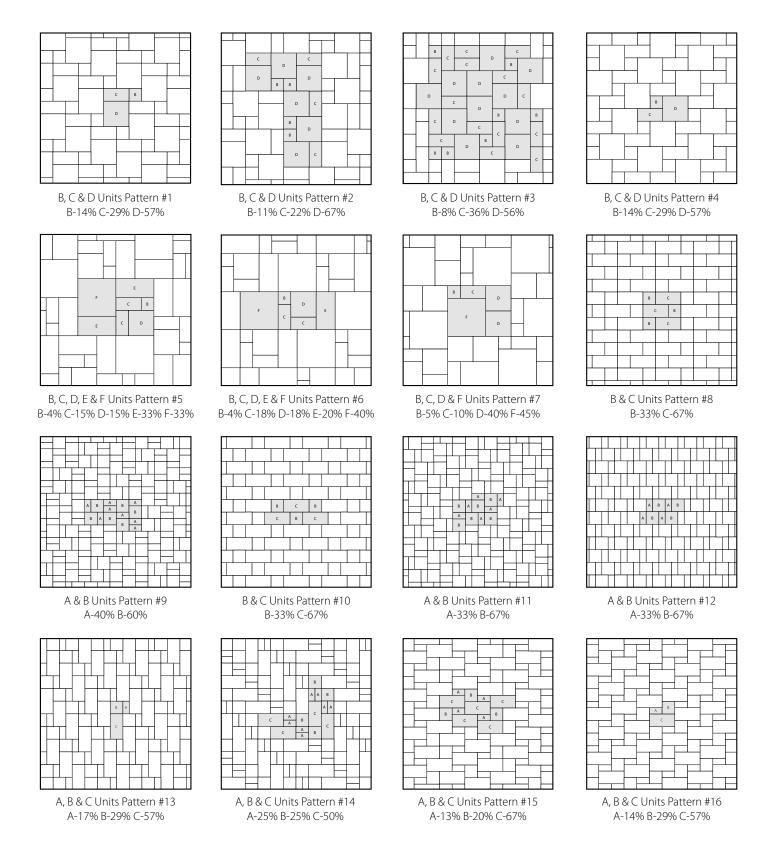
	D x H x L (Nominal Size) Inches • Millimeters	SF/ Unit	Units/ SF	SF/ Layer	Layers/ Pallet	SF/ Pallet	Units/ Layer	Units/ Pallet	Lbs/ Pallet
A 📦	4 x 2 <sup>3</sup> 4 x 8 • 96 x 70 x 196	.22	4.5	11	8	88	50	400	2820
В	8 x 2¾ x 8 • 196 x 70 x 196	.44	2.25	13.33	8	105.6	30	240	3380
	8 x 2 <sup>3</sup> / <sub>4</sub> x 16 • 196 x 70 x 396	.89	1.13	13.33	8	106.8	15	120	3305
	16 x 2¾ x 16 • 396 x 70 x 396	1.78	.56	16.02	6	96.12	9	54	3080
E	12 x 2¾ x 24 • 296 x 70 x 596	2	.5	12	8	96	6	48	3130
F	24 x 2¾ x 24 • 596 x 70 x 596	4	.25	16	4	64	4	16	2095

## Layer Configurations



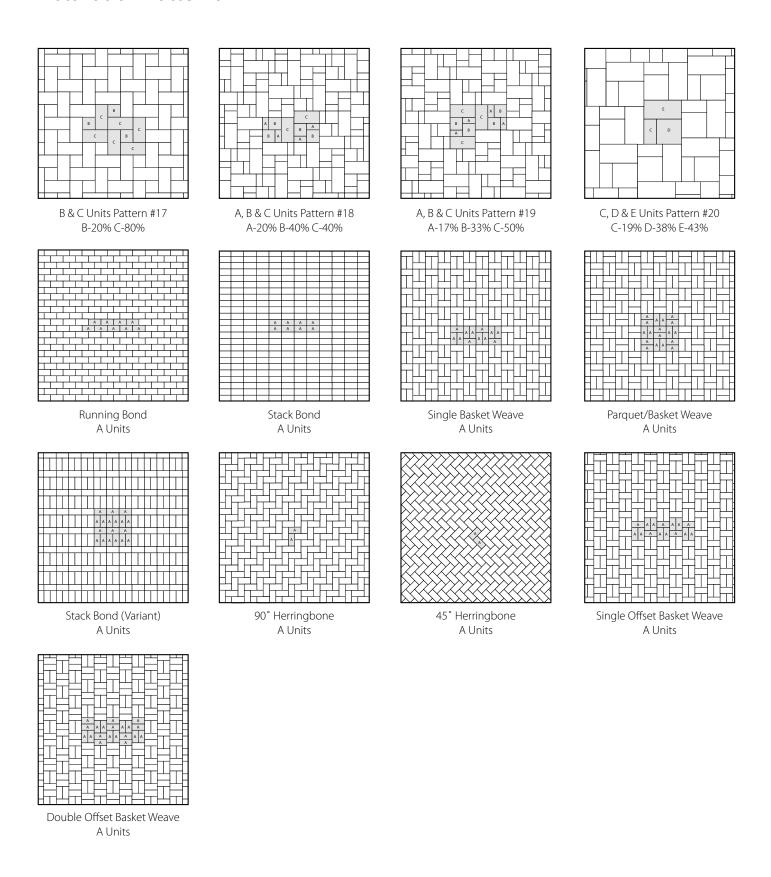
# Elements™ Paving Stones

### Installation Patterns



# Elements™ Paving Stones

### Installation Patterns



# Essence™ Wood Grain Plank Pavers

### **Units & Sizes**

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

A 53/4 x 31/8 x 911/16 • 146 x 80 x 246

B 53/4 x 31/8 x 115/8 • 146 x 80 x 296

C 53/4 x 31/8 x 135/8 • 146 x 80 x 346

53/4 x 31/8 x 171/2 • 146 x 80 x 446

D 53/4 x 31/8 x 191/2 • 146 x 80 x 496

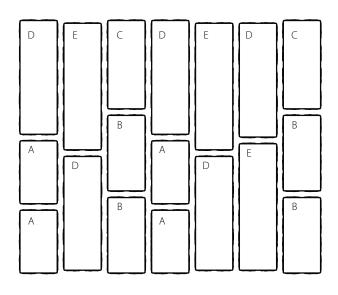
E 55/Layer Layers/Pallet SF/Pallet Lbs./Pallet

85.92

3210

## Layer Configuration

10.74

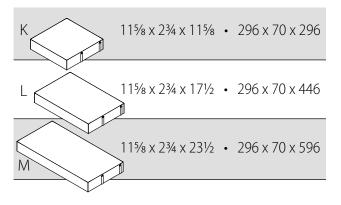




# Grand Milestone® Pavers

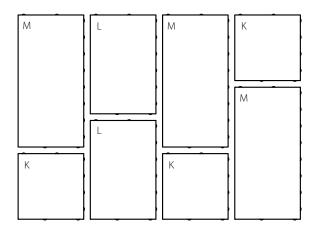
### **Units & Sizes**

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



SF/Layer	Layers/Pallet	SF/Pallet	Lbs./Pallet
11.36	8	90.88	2970

## Layer Configuration



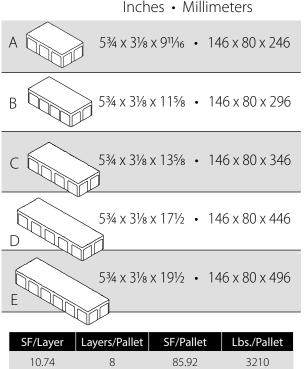
**Note:** Textured paver and patio stone surfaces require a buffer between the plate compactor and the paver surface to prevent scuffing. Refer to County Materials' Interlocking Concrete Paver or Slab Installation Guidelines, or contact County Materials for information.



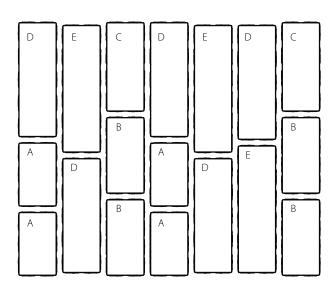
# Influence™ Pavers

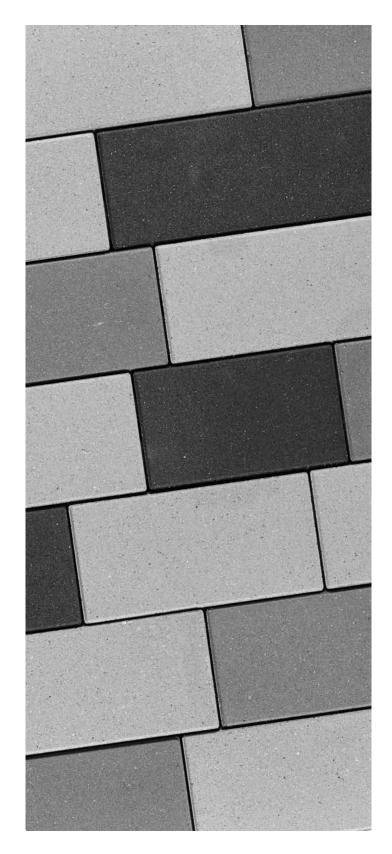
### **Units & Sizes**

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



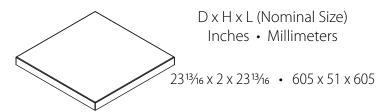
# Layer Configuration





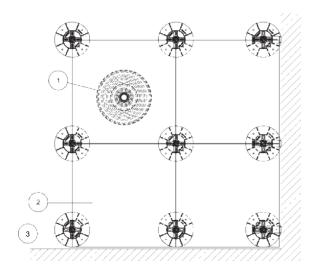
# Skylands™ Concrete Deck Pavers

### **Units & Sizes**



SF/Unit	Units/SF	SF/Pallet	Units/ Pallet	Lbs/Pallet
4	.25	92	23	2300

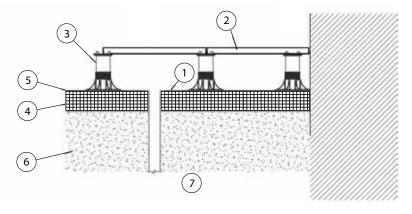
### Typical Pedestal Installation



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.

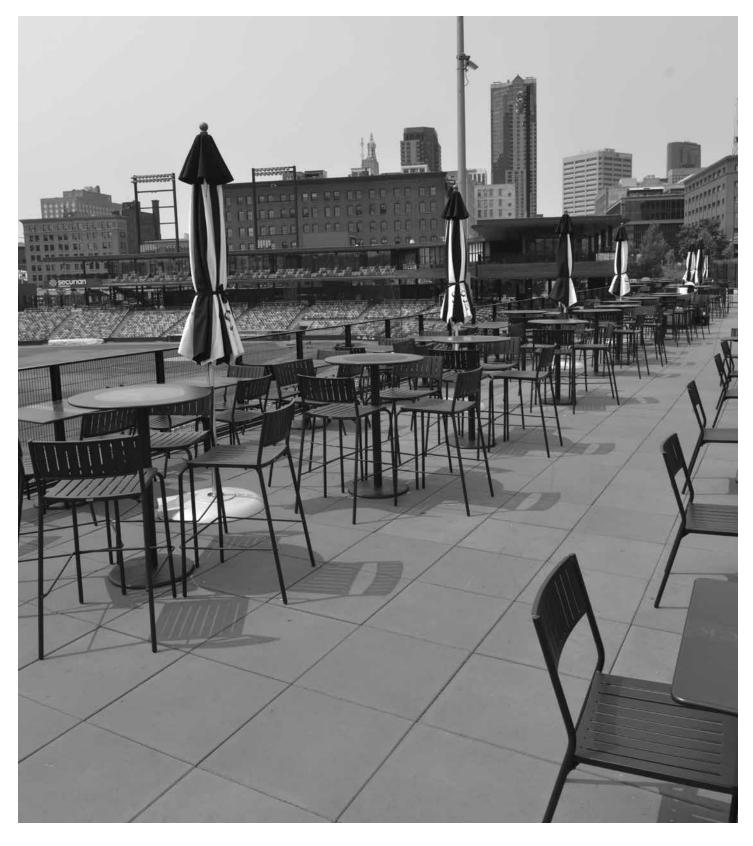
**Top View** 



Side View

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

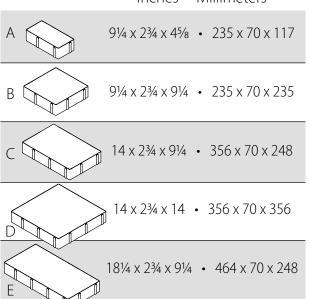
# Skylands™ Concrete Deck Pavers



# Tranquility® Pavers

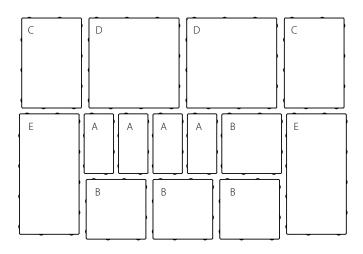
### Units & Sizes

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



SF/Layer	Layers/Pallet	SF/Pallet	Lbs./Pallet
10.77	8	86.16	2750

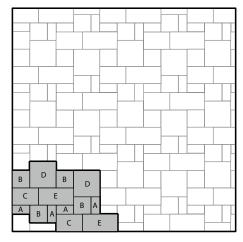
## Layer Configuration



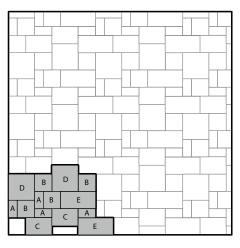


# Tranquility® Pavers

### Installation Patterns



A, B, C, D & E Units A-7% B-23% C-19% D-27% E-24%



A, B, C, D & E Units A-7% B-23% C-19% D-27% E-24%

**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.



# Vantage™ & Grand Vantage™ Pavers - New Product for 2020!

### **Units & Sizes**

### Vantage Pavers

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

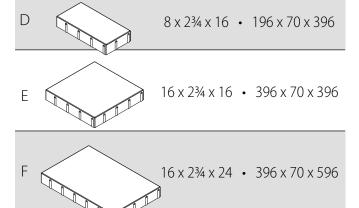
Α	4 x 2¾ x 8 • 96 x 70 x 196
В	8 x 2¾ x 8 · 196 x 70 x 196



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

### **Grand Vantage Pavers**

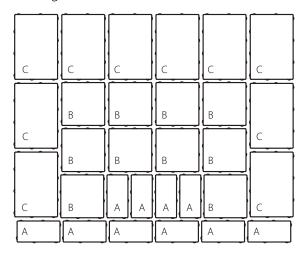
D x H x L (Nominal Size)
Inches • Millimeters



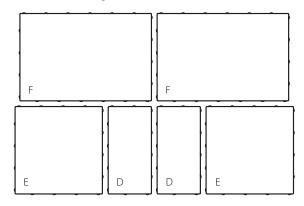
SF/Layer	Layers/Pallet	SF/Pallet	Lbs./Pallet
10.16	8	81.28	2600

## Layer Configurations

### Vantage Pavers

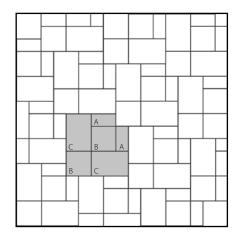


### Grand Vantage Pavers

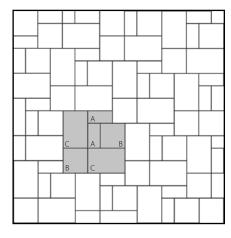


# Vantage™ & Grand Vantage™ Pavers - New Product for 2020!

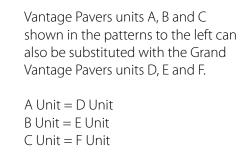
### Installation Patterns

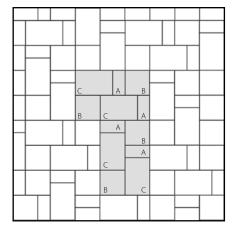


A, B & C Units Pattern #1 A-33% B-33% C-33%

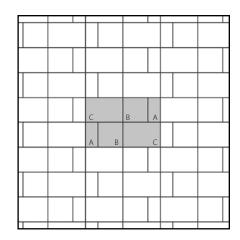


A, B & C Units Pattern #2 A-33% B-33% C-33%





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



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



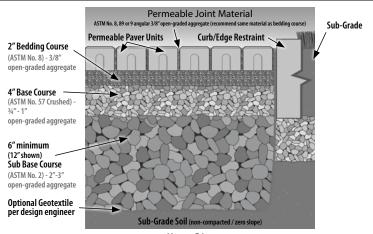


## Installation Guidelines-Permeable Concrete Pavers

#### **Full Exfiltration Cross Section**

Allows storage and infiltration. This is a common cross-section 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.

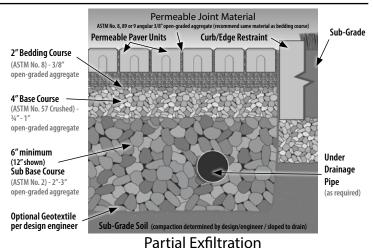


#### **Full Exfiltration**

#### 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.

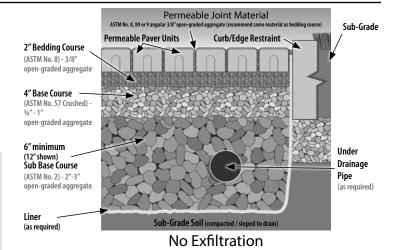


#### No Exfiltration Cross Section

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)

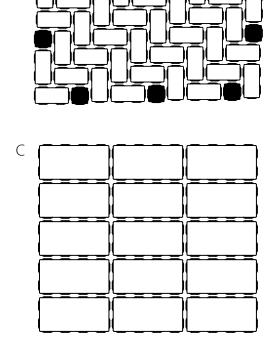
# H<sub>2</sub>O Pro® Pavers

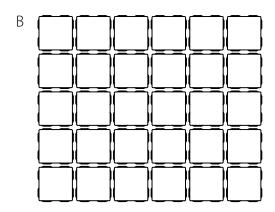
### Units & Sizes

	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 GOOD	4 x 3 % x 8 • 99 x 80 x 199	.22	4.5	11	8	88	50	400	3085
В	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	3820
	Installed joint dimensions = 10 mm (25/c,")								

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

## Layer Configurations



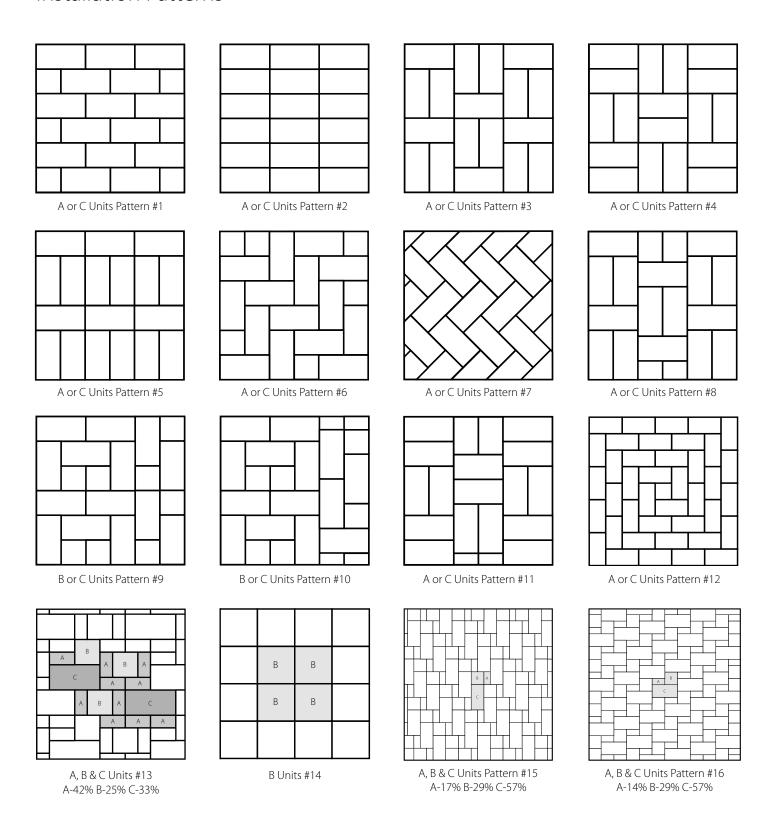


**Note:** The 4"x 8" size of H<sub>2</sub>O Pro Pavers are manufactured in a herringbone layer pattern that easily accommodates mechanical installation. Units can also be installed in many different patterns by hand.

**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.

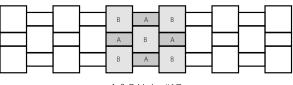
# H<sub>2</sub>O Pro® Pavers

## Installation Patterns

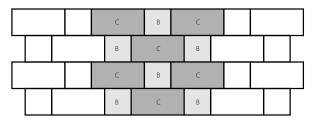


# H<sub>2</sub>O Pro® Pavers

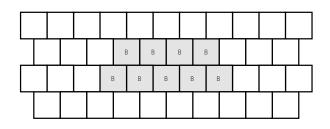
## Installation Patterns



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



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



B Units #19



# H<sub>2</sub>O Pro® Pavers



# Harmony™ Permeable Pavers

## **Units & Sizes**

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

4 x 31/8 x 8 • 102 x 80 x 203

A2 4 x 31/8 x 8 • 102 x 80 x 203

B 8 x 31/8 x 8 • 203 x 80 x 203

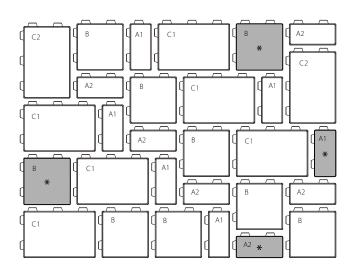
C1 8 x 31/8 x 12 • 203 x 80 x 305

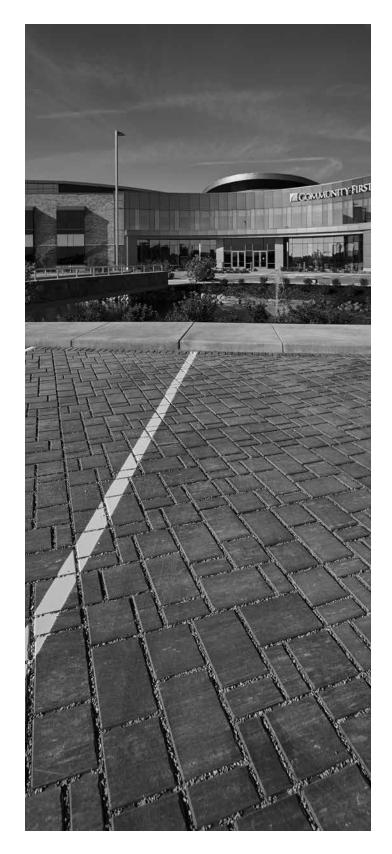
C2 8 x 31/8 x 12 • 203 x 80 x 305

SF/Layer Layers/Pallet SF/Pallet Lbs./Pallet

11.51 8 92.08 3370

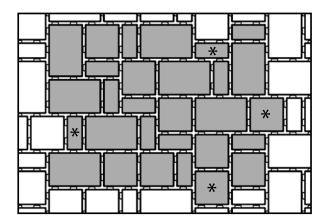
## Layer Configuration



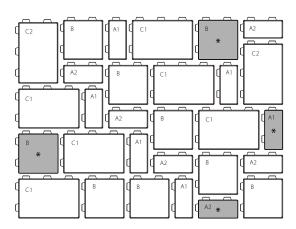


# Harmony™ Permeable Pavers

## Installation Pattern



- Installed joint dimensions = 15mm (19/32")
- Installed open area/layer =  $\pm 10.6\%$



**Note:** In machine-laid applications, the shaded pavers shown left are designed to be interchangeable to allow for stitching of the pattern as indicated in the diagram at right. Harmony units are manufactured to create a three piece pattern, mechanically installed by pallet layer. Schematic above illustrates paver sizes/orientation on the layer.

Can be used in conjunction with  $\rm H_2O$  Pro Pavers to meet ADA compliance.



## Renewable™ Pavers

### Units & Sizes

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

#### **Permeable**

 $8\% \times 3\% \times 8\% \cdot 219 \times 80 \times 219$ 

			Layers/ Pallet				
.4	2.5	10	8	80	25	200	2850



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

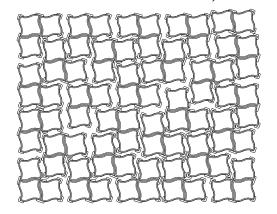
#### Sandset

 $8\frac{1}{8} \times 3\frac{1}{8} \times 8\frac{1}{8} \cdot 219 \times 80 \times 219$ 

SF/	Units/	SF/	Layers/	SF/	Units/	Units/	Lbs/
Unit	SF	Layer	Pallet	Pallet	Layer	Pallet	Pallet
.4	2.5	10	8	80	25	200	3000

## Layer Configurations

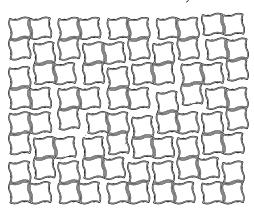
Renewable Pavers Permeable Layer Pattern



- Installed joint dimensions (Permeable) = 10 mm (<sup>25</sup>/<sub>64</sub>")
- Installed open area/layer =  $\pm 7.1\%$

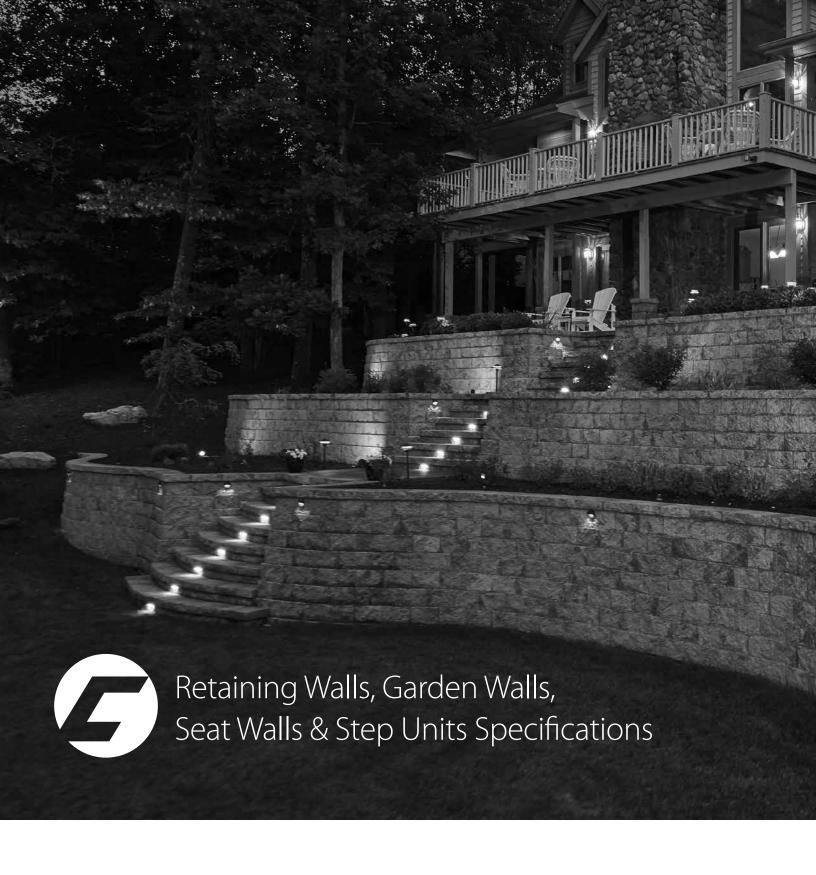
**Note:** Textured paver and patio stone surfaces require a buffer between the plate compactor and the paver surface to prevent scuffing. Refer to County Materials' Interlocking Concrete Paver or Slab Installation Guidelines, or contact County Materials for information.

Renewable Pavers Sandset Layer Pattern



 Installed joint dimensions (non-permeable or sandset) = 2mm (1/16")







#### 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.

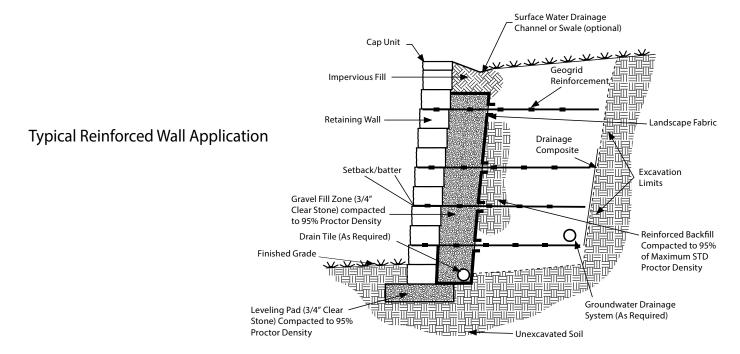
If your jobsite has any of the following conditions, get a complete engineering analysis from a qualified designer before proceeding:

- 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

Figure 1 Leveling Pad

Minimum
drainage stone

Block

Leveling Pad

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:

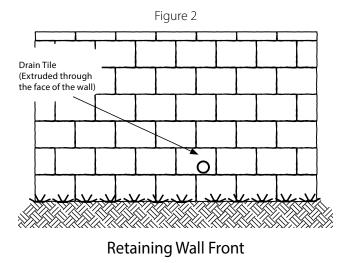
For the second and additional courses, set each unit 1" back from its finished position. Insert two pins in the front holes, and pull blocks forward so pins are fully seated into slots in two separate units below, locking them together. County Block Jumbo units only require 2 pins per block; these may 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.

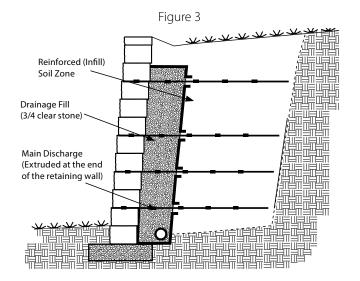
### Winston and Integrity retaining walls without pins:

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**

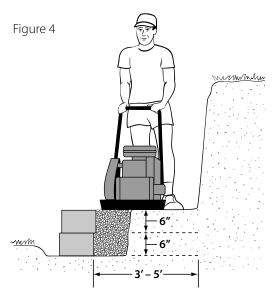
Drain tile should be placed behind the wall and extruded wherever possible. This means the drain tile may have to be extruded through the face of the wall (Figure 2) or at the end of the wall (Figure 3).





### **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**

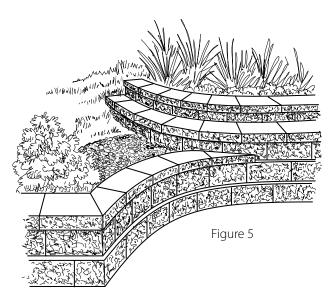
If geogrid reinforcement is required, excavate behind wall location for a distance equal to the designed embedment length of the grid. Construct the wall up to the designated height of first grid layer. Place and compact granular fill within and behind the wall. Backfill and compact soil behind the granular 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®, County Block® Jumbo, Integrity™, Rib Rock™ and Tribute®.

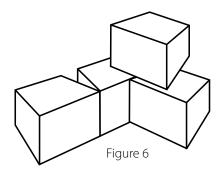
### **Ending and Capping a Retaining Wall**

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).



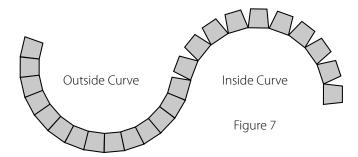
#### **Inside Corners**

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.

### County Block retaining walls with curves using Jumbo units:

When using the County Block retaining wall system with jumbo units, be careful not to expose the center pinhole with too tight of a convex (outside) curve.

#### **Outside Corners**

#### County Block retaining walls with outside corners:

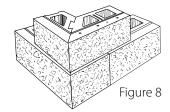
To construct outside corners with the County Block system, the industry recommends using a gas-powered masonry cut- off saw with a diamond blade. This creates a very clean and uniform surface edge to align standard units with. Building outside corners requires cutting one side of the 2 piece corner unit on each course and alternating the position of the cut block to maintain running bond pattern (Figure 8).

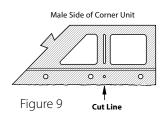
First Course: Cut the male side (Figure 9) of a corner unit along the cut line and insert the male key into the notch on the uncut female side. Construction adhesive applied to the female notch and male key is suggested to help lock the channel together. Position the block on the base material to form a 90° corner. Place a standard County Block unit along the cut side of the corner unit. Continue installing first course units. Fill and compact.

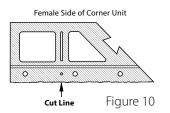
Second Course: Cut the female side (Figure 10) of a corner unit along the cut line. Slide the notch over the key of an uncut male side. Position the corner unit on top of the first course. Place standard County Block unit alongside. Fill and compact. Repeat previous steps for additional courses, alternating the position of corner units on each course.

#### 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. 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 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.

## 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.

### 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.

### **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.

#### Installation Guide for Reference Only

This Installation 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 Installation Guide. However, this Installation 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. 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, 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.

# County Block® Retaining Wall System

## Units & Sizes

Splitface	Splitface D x H x L (Nominal Size) Inches • Millimeters		Units/ Pallet	Lbs/ Unit	Lbs/ Pallet
	12 x 7% x 18 • 305 x 194 x 457 <b>Jumbo</b>	.95	50	68	3445
	12 x 75% x 12½ • 305 x 194 x 318	.66	64	46	2965
	7% x 7% x 17½ • 194 x 194 x 445 <b>Corner</b>	.93	60	53	3225

- Calculate the number of:
- County Block Standard units needed: SF x 1.5
  County Block Jumbo units needed: SF x 1.05
- Calculate the equal number of both sizes blended into a County Block wall: SF divided by 1.61



# County Cub® Landscape Units

## Units & Sizes

D x H x L (Nominal Size) Inches • Millimeters	SF/ Unit	Units/ Pallet	Lbs/ Unit	Lbs/ Pallet
8 x 3% x 12 • 203 x 92 x 305 <b>Standard</b>	.30	168	22	3750
8 x 2 x 13% • 203 x 51 x 340	-	108	16	1773

• Calculate the number of County Cub units needed: SF x 3.3



# 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 <b>Standard</b>	1	36	80	2925
		12 x 8 x 9 • 305 x 203 x 228 <b>Standard Corner</b>	Face5 Return66 Total Unit - 1.16	72	40	2925



# Integrity™ Retaining Wall System



## **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
1 - 6" PVC Drain Block	23 x 24 x 48	8	2	1800	3645
2 - 48" Regular Block	23 x 24 x 48	8	2	1800	3645
3 - 44" Short Key Block	23 x 24 x 44	7.32	2	1750	3545
4 - 52"Long Key Block	23 x 24 x 52	8.66	2	2200	4445
5 - Base Block ( No Channel)	27 x 24 x 48	8	2	2800	5645
6 - 1/2 Block	23 x 24 x 24	4	2	1100	2245
7 - Half Corner Block Left	23 x 24 x 24	8	2	1200	2445
8 - Half Corner Block Right	23 x 24 x 24	8	2	1200	2445
9 - Full Corner Block Left	27 <sup>1</sup> / <sub>2</sub> x 24 x 52	12	2	2320	4685
10 - Full Corner Block Right	27 <sup>1</sup> / <sub>2</sub> x 24 x 52	12	2	2320	4685
11 - Regular Cap (Same for both Dry Stack and Rough Texture)	25 x 7 x 48	2.33	4	440	1805
12 - Corner Cap Left	25 x 7 x 48	2.33	4	440	1805
13 - Corner Cap Right	25 x 7 x 48	2.33	4	440	1805
14 - Cap 2 Sided -Face & Back	25 x 7 x 48	2.33	4	440	1805
15 - Cap 3 Sided -Face, Back & End	25 x 7 x 48	2.33	4	440	1805

- \* 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.



Rib Rock Rough Texture



Rib Rock Dry Stack Texture



6" PVC Drain Block



Regular Block



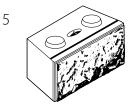
3

44" Short Key Block



52" Long Key Block

8



Base Block (No Channel)



6

Half Block

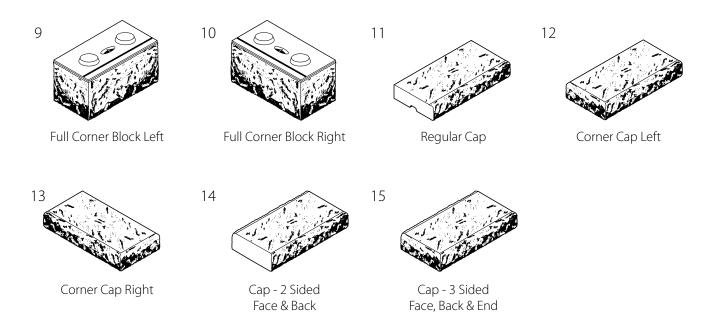


Half Corner Block LH



Half Corner Block RH

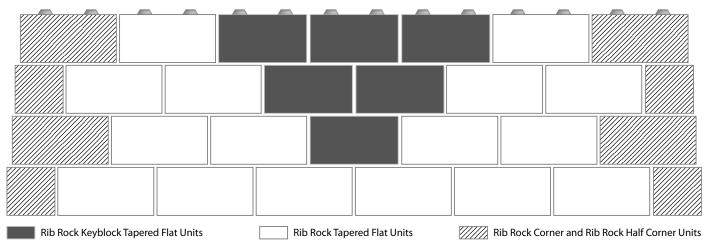
## Units & Sizes



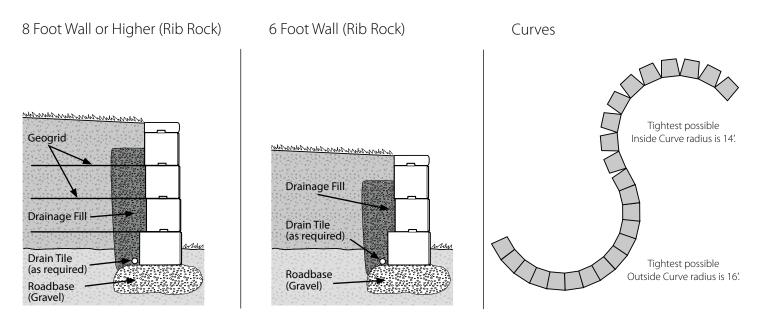


### Installation

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.

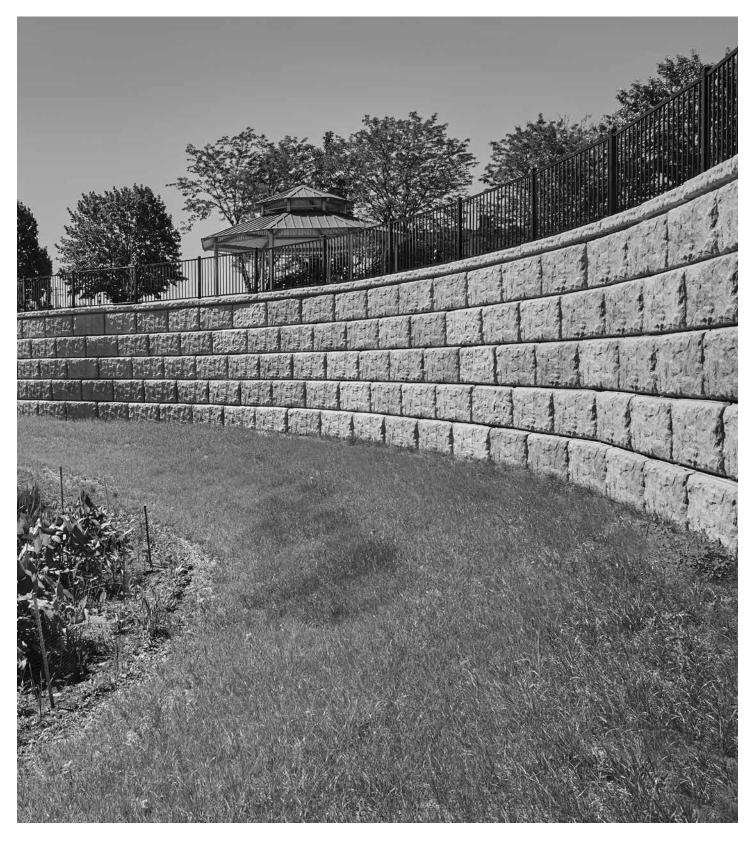


Site conditions may require Geogrid at 6'. Refer to site specific Engineering section.

## 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.



## Tribute® Retaining Wall System

### Units & Sizes

Splitface  * SRW	Rustic * 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	73	2675
*FSW	* 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	2675

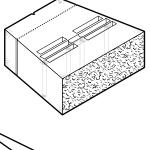
<sup>\*</sup> SRW (Segmental Retaining Wall Unit)

#### • Calculate the number of Tribute full units needed: SF x 1.5

## Wall Configurations

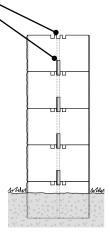
## Tribute retaining walls with pins:

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



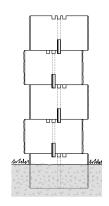
### Tribute Two-sided Vertical **Face Seat Wall Installation**

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".



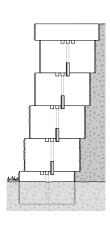
### Tribute Two-sided **Recessed Face Seat Wall** Installation

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.



<sup>\*</sup> FSW (Free Standing Wall Unit)

## Tribute® Retaining Wall System

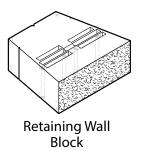
## Seat Wall and Column Design

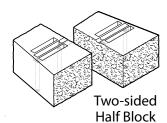
# Finished Ends and Corners on Tribute Two-sided Seat Wall Installations

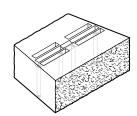
To finish your free standing seat wall on each end, split 2" off the back of each unit at the indicated grooves for a two-sided split appearance on the front and back faces. Then split the unit in half (front to back) at the indicated center notch to achieve two half blocks with three split sides. At your desired seat wall starting point, place one half block with a split surface facing out (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 facing out.

**Second course:** Split another two sided Tribute unit in half as before. On one half block, measure and mark the width of one face at 2-7/8". On the other split face, measure and mark its width at 4-7/8". Draw a line between each marked face and saw the unit along the appropriate angle to create a specially cut two-sided 1/4 return unit. Place one sawed 1/4 piece, split surface out, on the end of the first course to start the second course. Make sure the cut angle of this second course unit is opposite of the angle in the first course for proper bond. 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.





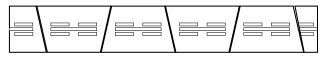


Free-Standing

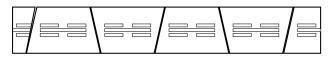


Specially Cut Two-sided 1/4 Return Unit

Figure 2 Tribute Two-sided Seat Wall



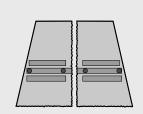
Courses 1,3,5...

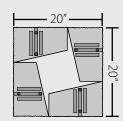


Courses 2,4,6...

# 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.







# Winston® Retaining Wall System

## 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 <b>Straight</b>	.73	45	70	3200
12 x 6 x 8¾ • 305 x 152 x 222 <b>Straight Corner</b>	Face36 Return5 Total Unit86	90	33	3020
12 x 6 x 16 • 305 x 152 x 406 <b>Tri-Split</b>	.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: Only available in select markets. Contact your County Materials' representative for details.



## Related Retaining Wall Products

## Adhesive

Product	Case Qty.
SRW Adhesive 10.5 oz.	12
SRW Adhesive 29 oz.	12

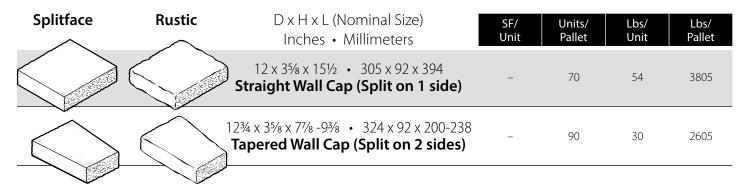
## Geogrid

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)

## 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)

## Wall Caps



#### Notes:

- Split on one side
- Also available in Heavy Rustic texture
- Tapered Wall Cap split on 2 sides
- Color options for wall caps will vary depending on the retaining wall units they are ordered with. Contact your County Materials' representative for wall cap colors.





# Outdoor Living Product Palletization Table

### Palletization Table

Product	How Is This Product Palletized?
Reflection Stone® Full Veneer	9 pc Combo
Reflection Stone® Thin Veneer	9 pc Combo
Reflection Stone® Thin Veneer Corners	8 pc Combo*
Reflection Stone® GRAND Full Veneer	4 pc Combo
Reflection Stone® GRAND Thin Veneer	4 pc Combo
Reflection Stone® GRAND Thin Veneer Corners	3 pc Combo*
Reflection Stone® Brick Full Veneer	4 pc Combo
Reflection Stone® Brick Thin Veneer	4 pc Combo
Reflection Stone® Brick Thin Veneer Corners	4 pc Combo*
Summit Stone® Landscape Units - Small	Individual sizes palletized separately
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

<sup>\*</sup> Thin Veneer Corners are packaged in a box



# Crest™ Bullnose Pavers

## Units & Sizes



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

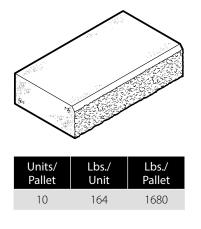
 $6 \times 2^{3/4} \times 12 \cdot 152 \times 70 \times 305$ 

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



## Landscape Step Units

## Units & Sizes

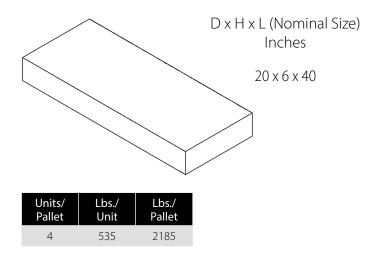


D x H x L (Nominal Size) Inches 14 x 6 x 24



# Passageways™ Step Unit - New Product for 2020!

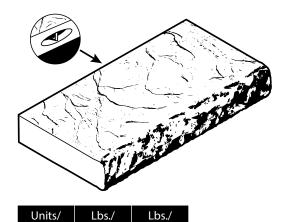
## **Units & Sizes**



Note: Textured face on both sides of the step.

# Oversize Landscape Step Units

## Units & Sizes



**Pallet** 

3085

Unit

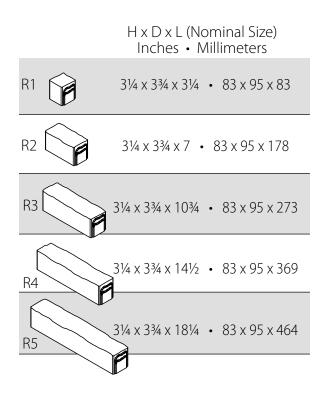
760

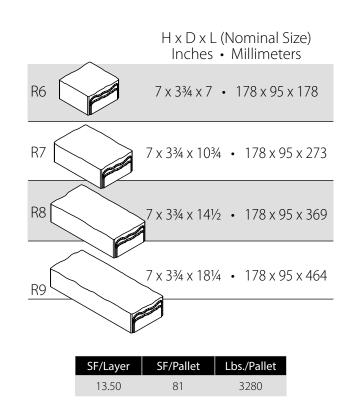
D x H x L (Nominal Size) Inches  $25 \times 6\% \times 48$ 



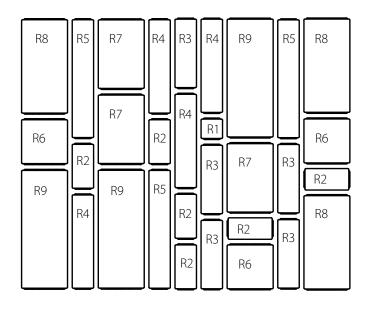
## Reflection Stone® Masonry Units - Full Veneer

## Units & Sizes



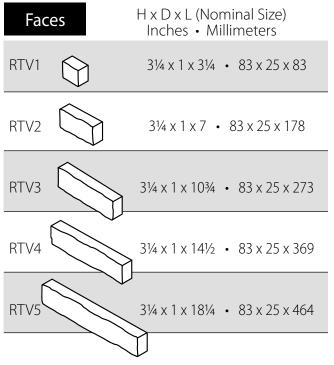


## Layer Configuration

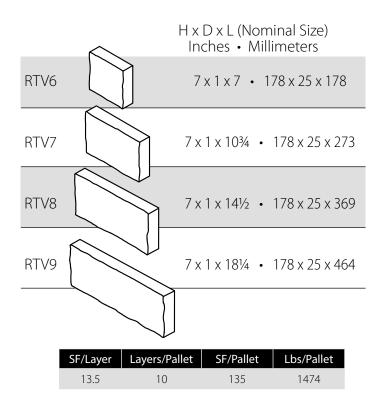


### Reflection Stone® Masonry Units - Thin Veneer

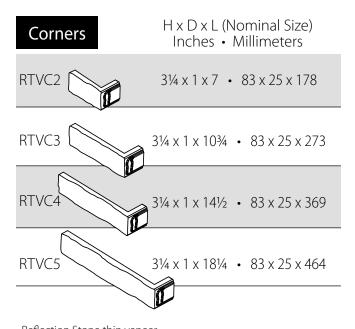
### Units & Sizes



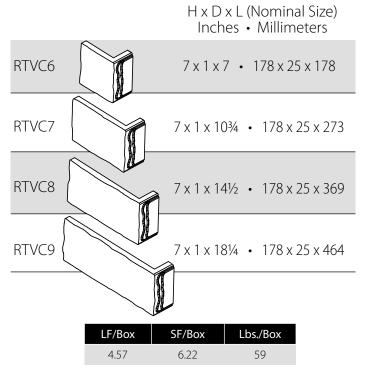
<sup>\*</sup> Reflection Stone thin veneer thickness will range from 3/4" to 1 1/4".



### **Units & Sizes**



- Reflection Stone thin veneer thickness will range from 3/4" to 1 1/4".
- All Return Ends are 3 3/4" in depth.

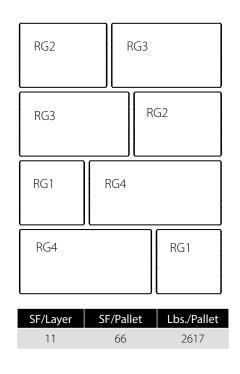


### Reflection Stone® GRAND Masonry Units - Full & Thin Veneer

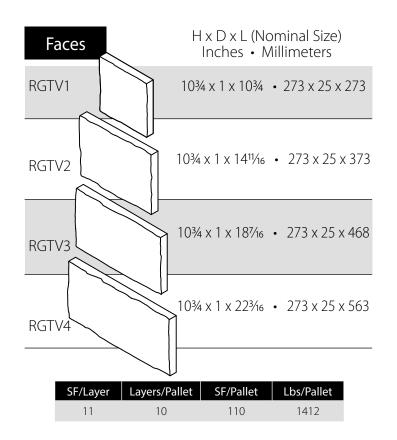
### Units & Sizes - Full Veneer

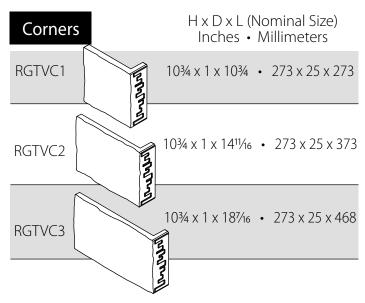
# RG1 10<sup>3</sup>/<sub>4</sub> x 3<sup>3</sup>/<sub>4</sub> x 10<sup>3</sup>/<sub>4</sub> • 273 x 95 x 273 RG2 10<sup>3</sup>/<sub>4</sub> x 3<sup>3</sup>/<sub>4</sub> x 14<sup>11</sup>/<sub>16</sub> • 273 x 95 x 373 RG3 10<sup>3</sup>/<sub>4</sub> x 3<sup>3</sup>/<sub>4</sub> x 18<sup>7</sup>/<sub>16</sub> • 273 x 95 x 468 RG4 10<sup>3</sup>/<sub>4</sub> x 3<sup>3</sup>/<sub>4</sub> x 22<sup>3</sup>/<sub>16</sub> • 273 x 95 x 563

### Layer Configuration



### Units & Sizes - Thin Veneer





- Reflection Stone GRAND and Brick thin veneer thickness will range from 3/4" to 1 1/4".
- All Return Ends are 3 3/4" in depth.

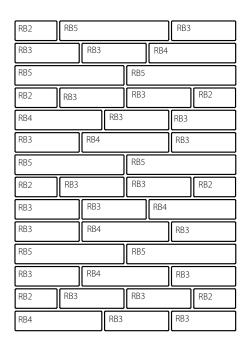
LF/I	Вох	SF/Box	Lbs/Box
5.5	53	8.69	90

### Reflection Stone® Brick Masonry Units - Full & Thin Veneer

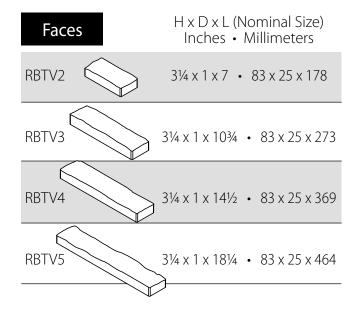
### Units & Sizes - Full Veneer

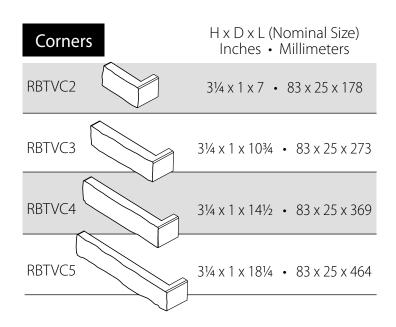
### H x D x L (Nominal Size) Inches • Millimeters $3\% \times 3\% \times 7 \cdot 83 \times 95 \times 178$ RB2 RB3 $3\frac{1}{4} \times 3\frac{3}{4} \times 10\frac{3}{4} \cdot 83 \times 95 \times 273$ RB4 $3\% \times 3\% \times 14\% \cdot 83 \times 95 \times 369$ RB5 $3\frac{1}{4} \times 3\frac{3}{4} \times 18\frac{1}{4} \cdot 83 \times 95 \times 464$ SF/Pallet Lbs./Pallet SF/Layer 13.3 80 2940

### Layer Configuration



### Units & Sizes - Thin Veneer





SF/Layer	Layers/Pallet	SF/Pallet	Lbs/Pallet
13.3	10	133	1604

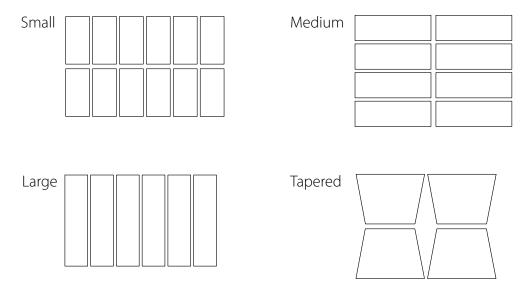
LF/Box	SF/Box	Lbs/Box
5.1	6.93	57

### 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/ Unit	Lbs/ Pallet
Small	7¼ x 35/8 x 7¼ • 184 x 92 x 184	.18	5.55	5.40	8	43.20	30	240	14	3410
Medium										
THE STATE OF THE S	7¼ x 35% x 10% • 184 x 92 x 276	.27	3.70	5.40	8	43.20	20	160	21	3410
The state of the s										
Large										
12 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7¼ x 35% x 14½ • 184 x 92 x 368	.37	2.70	5.55	8	44.40	15	120	28	3410
Tapered										
	7½ x 3% x 9% • 184 x 92 x 251	.27	3.70	6.48	7	45.36	24	168	17.9	3097

Note: Available in Smooth or Tumbled.

### Layer Configurations



### Pillar Construction

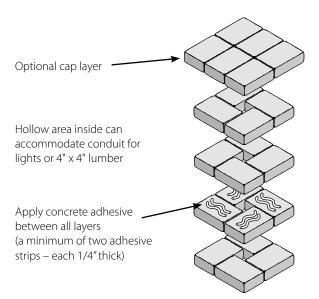
### **Decorative Pillars**

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.

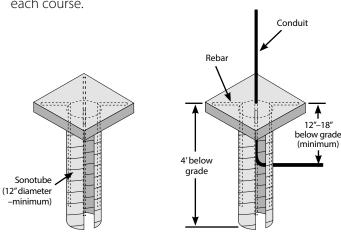
The hollow area inside of each pillar can accommodate electrical conduit for a light or a wood 4" x 4" to support a trellis, a lamp post or a garden gate.

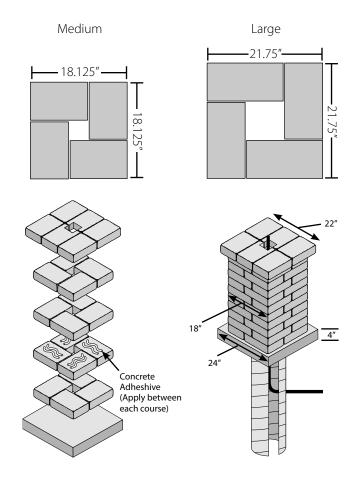


NOTE: Outside measurements of cap layer will be approximately 22"x 22". Post and wall heights should not exceed 36".
For decorative walls, columns and steps, 1 to 2 layers of Summit Stone units should be buried below grade for proper embedment.

### 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.





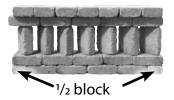
### Seat Walls, Alcoves and Tables

### **Seat Wall Patterns**

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

### Seat Walls: Formula for calculating Linear Feet





**7 block per lineal foot.** Example: A 10-foot wall requires 70 block.

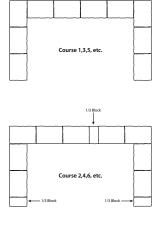
# Special Features: Surrounds/Alcoves for Grills, Refrigerators, etc.

### **Enhance Your Outdoor Living Space**

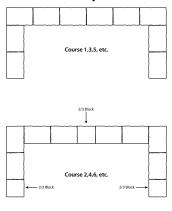
Outdoor kitchen appliances can be nestled into coves constructed of Summit Stone Tumbled Landscape Units, giving your outdoor living space an attractive, completed appearance.



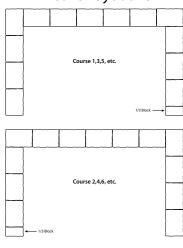
### Alcove Layout #1



Alcove Layout #2



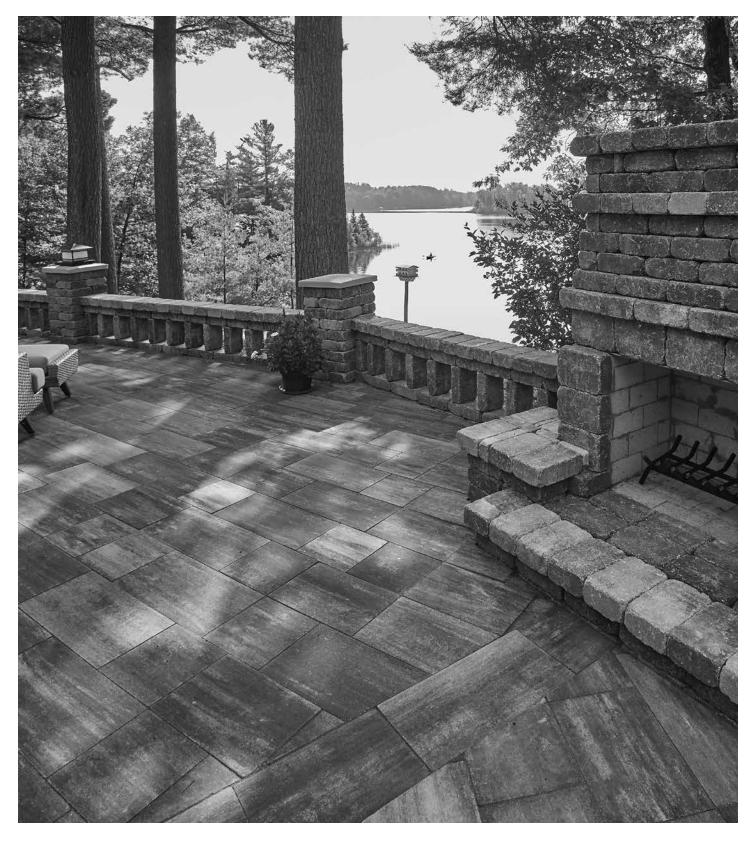
Alcove Layout #3



### **Tables and Counters**

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





### Summit Stone® Landscape Units - Fireplace Kits

### Summit Stone Standard Fireplace



Product	Size D x H x L (inches)
Summit Fireplace Standard	54 <sup>3</sup> / <sub>4</sub> x 79 <sup>3</sup> / <sub>4</sub> x 84 <sup>1</sup> / <sub>4</sub>

#### Standard Fireplace components include:

(5) - 6" concrete block

(5) - 3" soaps

(14) - Summit Stone ( $7^{1}/4^{\prime\prime} \times 3^{5}/8^{\prime\prime} \times 10^{7}/8^{\prime\prime}$ - Medium) units special cut (1/3 and 2/3)

(1) - 10 lbs. pail of Heat Stop II refractory clay

(75) - fire brick  $2^{1/2}$ " thick

(1) - 47" x 31/2" x 31/2" steel lintel

(1 left and 1 right) - Summit Stone ( $7^{1}/_{4}$ " x  $3^{5}/_{8}$ " x  $10^{7}/_{8}$ "- Medium) special cut lintel pad unit

- In addition to the standard fireplace components listed above, 320 Summit Stone ( $7^{1}/4^{"} \times 3^{5}/8^{"} \times 10^{7}/8^{"}$  Medium) are needed to complete project.
- Concrete adhesive is sold separately. Approx. 10-12 tubes of adhesive will be required, depending on the quantity applied to each Summit Stone.

Approx. 8000 lbs. - 3 total pallets

### Summit Stone Double Woodbox Fireplace



Product	Size D x H x L (inches)
Summit Fireplace	54 x 79 <sup>3</sup> / <sub>4</sub> x 141 <sup>3</sup> / <sub>8</sub>

Disclaimer: This is a basic outdoor fireplace kit design. Outdoor fireplaces should always be constructed by a knowledgeable professional. Location, chimney height, flue size and prevailing winds can affect the performance of a an outdoor fireplace. County Materials cannot guarantee the performance or structural integrity of this fireplace. Use only industry accepted materials, cements and adhesives when constructing an outdoor fireplace. Always observe building codes and local bylaws.

### Double Woodbox Fireplace components include:

(5) - 6" concrete block

(16) - 4" concrete block

(5) - 3" soaps

(18) - Summit Stone (7½1/4" x 3 $^5$ /8" x 10½8" - Medium) units special cut (½3 and ½/3)

(1) - 10 lbs. pail of Heat Stop II refractory clay

(75) - fire brick  $2^{1/2}$ " thick

 $(1) - 47" \times 3^{1/2}" \times 3^{1/2}"$  steel lintel

 $(2) - 42'' \times 3^{1/2}'' \times 3^{1/2}''$  steel lintels

(1 left and 1 right) - Summit Stone ( $7^{1}/_{4}$ " x  $3^{5}/_{8}$ " x  $10^{7}/_{8}$ " - Medium) special cut lintel pad unit

(2) - Summit Stone  $(7^{1}/_{4}" \times 3^{5}/_{8}" \times 10^{7}/_{8}"$ - Medium) units special cut common grooved lintel pad

- In addition to the double woodbox fireplace components listed above, 500 Summit Stone (71/4" x 35/8" x 107/8"- Medium) are needed to complete project.
- Concrete adhesive is sold separately. Approx. 10-12 tubes of adhesive will be required, depending on the quantity applied to each Summit Stone.
- Grate is not sold with the kit.

Approx. 12,000 lbs. - 5 total pallets

### Summit Stone® Landscape Units - Fireplace Kits

### Summit Stone Corner Fireplace



Product	Size D x H x L (inches)
Summit Fireplace Corner	82 x 79 <sup>3</sup> / <sub>4</sub> x 104

#### Corner Fireplace components include:

(20) - 8" 1/4 concrete block

(5) - 6" concrete block

(20) - 4" concrete block

(5) - 3" soaps

(54) - Summit Stone (7 $^{1}/_{4}$ " x  $3^{5}/_{8}$ " x  $10^{7}/_{8}$ " - Medium) units special cut ( $^{1}/_{3}$  and  $^{2}/_{3}$ )

(1) - 10 lbs. pail of Heat Stop II refractory clay

(75) - fire brick  $2^{1/2}$ " thick

 $(1) - 47'' \times 3^{1/2}'' \times 3^{1/2}''$  steel lintel

(1 left and 1 right) - Summit Stone ( $7^{1/4}$ " x  $3^{5/8}$ " x  $10^{7/8}$ "-Medium) special cut lintel pad unit

(2) - Summit Stone  $(7^{1}/_{4}^{"} \times 3^{5}/_{8}^{"} \times 10^{7}/_{8}^{"}$ -Medium) units special cut common grooved lintel pad

• In addition to the corner fireplace components listed above, 420 Summit Stone  $(7^{1}/4^{\circ} \times 3^{5}/8^{\circ} \times 10^{7}/8^{\circ} - \text{Medium})$  are needed to complete project.

• Concrete adhesive is sold separately. Approx. 10-12 tubes of adhesive will be required, depending on the quantity applied to each Summit Stone.

Approx. 10,320 lbs. - 4 total pallets

### Summit Stone Circular Fire Pit Design



### **Summit Stone Tapered Unit**

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.

#### 36" Diameter Fire Pit Design Estimate

- (17) Tapered units per layer
- 54" outside and 39" inside diameters

#### 42" Diameter Fire Pit Design Estimate

- (17) Tapered units and 2 Small units per layer
- 59" outside and 44" inside diameters

### 48" Diameter Fire Pit Design Estimate

- (16) Tapered units and (6) Small units per layer
- 66" outside and 51" inside diameters

### Larger Diameter Fire Pits

Larger diameter firepit designs can be accommodated if desired by adding additional Tapered and Small units per layer.

### Summit Stone Square Fire Pit Design



#### 36" Square Fire Pit Design Estimate

- 3 layers high (30) Small units, (12) Medium units and (12) Large units.
- 50.75" outside and 36.25" inside dimensions
- Optional Steel Fire Pit Inserts Circular or Square (sold separately)
- Optional Firebrick splits (sold separately)
- Refer to Fire Pit Inserts on page 167

### Summit Stone 3' High Serpentine Wall Design



### Locations

### **Appleton**

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

### Eau Claire

1211 Menomonie St. Eau Claire, WI 54702 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 715-234-8145

#### Roberts

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

#### **Stevens Point**

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

#### **Tomahawk**

407 S Tomahawk Ave. Tomahawk, WI 54487 715-453-5463

### Waukesha

W229N2450 Homewood Ct. Waukesha, WI 53186 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 www.countymaterials.com for additional information about County Materials' Dealer Locations.



County Materials' representative for specific information on products and their availability in your area.





