



PRODUCT
RESOURCE GUIDE

THE HARDSCAPES ADVANTAGE

PRODUCT DESIGN

At Brown's Concrete Products, every product is designed with three key objectives: To solve a problem, to be aesthetically pleasing, and to facilitate seamless installation. Before any product reaches the market, our R&D team rigorously tests and refines it to guarantee that these design goals are met.

QUALITY MATERIALS

What differentiates Brown's Concrete is our steadfast commitment to quality, exemplified by the use of premium granite aggregate. This superior material forms the cornerstone of our products, providing unmatched durability and performance. Our rigorous focus on high-quality materials ensures that every Brown's product maintains its structural integrity over time, consistently delivering exceptional, long-lasting results in any hardscaping project.

MANUFACTURING PROCESS

Our cutting-edge manufacturing facilities seamlessly blend innovative design with the finest raw materials. Through our Total Quality Management (TQM) system, we maintain the highest standards at every stage of production — from meticulous planning to precise execution and timely delivery. The Brown's TQM program is a testament to our persistent commitment to quality control and assurance, guaranteeing that each product we produce is of the utmost quality.

CUSTOMER SERVICE

Whether you're a dealer partner, contractor, or homeowner, Brown's Concrete offers customer service designed to make your experience exceptional. From contractor training and certification programs to exclusive dealer incentives, we are committed to building our reputation one client at a time. We strive to build lasting relationships by consistently delivering exceptional service and support, aiming to exceed your expectations with every interaction.

EXCEPTIONAL VALUE

At Brown's, we are committed to providing you with the best value for your hardscaping investment. We are dedicated to delivering the highest value through products that offer long-lasting beauty, durability, and functionality.





PAVERS | SLABS | PERMEABLE PAVERS | CURBS

Nordic		Amberley	9
60 Nordic 80 Nordic 60 Square	2	Athenian	10
Venetian		Avennio	11
Random	3	DC 80 Permeable	
Circle Circle Design Chart	4	Paver System	12
Belgium		AquaPave®	
6x9 12x12	5	Paver System	13
Appian Stone		Superior Steppers	14
70 50 Soldier Pavers	6	Grand Flagstone	15
Aztec Stone		Installation	16-18
70 50 Soldier Pavers	7	Signature Curbs	
Appian XL	8	Driveway Stone Edge Millstone	19

RETAINING WALLS AND STEPS

Outcropping		Coping	31
Retaining Wall	20	Instructions: Retaining and Freestanding	32
Outcropping Installations		Instructions: Curves	33
Typical Gravity Wall	21	Instructions: Pillars	34
Freestanding wall	22	Instructions: Corners	35
Outcropping Installations		Dimensional Wall	36
Retaining and Freestanding walls	23	Antico Stacker	37
Curves	24	Wedgestone	
Patterns	25	Walls Edging Flower Beds	38
Grand Ledge	26	Instructions: Curved Wall	38
Rockton		Parkwall	
Walls Corners	27	Retaining Wall	39
Rockton Installation	28	Installation: Building Parkwall Steps	40
Northface	29	Dimensional Steps	41
Belvedere		Irregular Steps	42
Wall Corners	30	Calculating Tread Width	43

FIRE PIT KITS

Dimensional	44
Rockton	44
Kent II	45
Oxford	45
Belvedere	46

SPECIALTY CAPS

Caps	
Montana Riviera	47

CONCRETE BLOCKS

Standard Concrete Blocks	48-49
---------------------------------------	-------

GENERAL INSTALLATION

Paver Installation	50
Retaining Wall	51
Project Planning	52



NORDIC

60 | 80 | SQUARE



Specifications per pallet	Nordic 60	Nordic 80	Nordic 60 Square
Weight/pallet	2,757 lbs/1,251 kg	3,254 lbs/1,476 kg	3,017 lbs/1,369 kg
Length	200 mm (7.9 in)	200 mm (7.9 in)	200 mm (7.9 in)
Width	100 mm (3.9 in)	100 mm (3.9 in)	200 mm (7.9 in)
Thickness	60 mm (2.36 in)	80 mm (3.15 in)	60 mm (2.36 in)
Sq. ft./pallet	106	93	109
Sections/pallet	6		
Units/section	81		
Sq. ft./section	17.67		
Full stone/sq. ft.	4.57	4.57	2.29
Full stones/bundle	477	416	250
Half stones/pallet	18	16	
LN FT/pallet (Soldier)	156	139	164
LN FT/pallet (Sailor)	312	278	

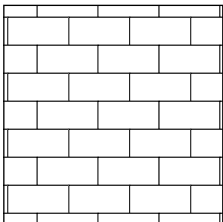
Nordic 80 mm and Nordic Square are special orders.

Available in a Herringbone configuration for easy machine installation. Please specify when placing your order.

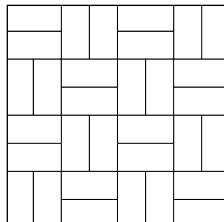
STANDARD COLOURS

- Blackwood
- Charcoal
- Fairbanks
- Granite
- Laurentian
- Midnight Charcoal
- Nipissing

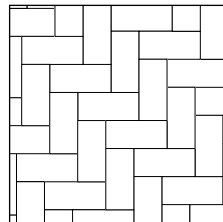
LAYING PATTERNS FOR NORDIC STONES



Runner Bond

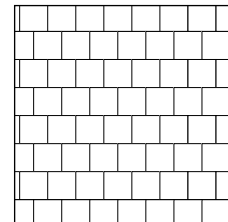


Parquet



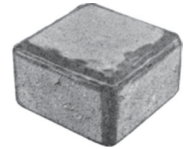
90° Herringbone

LAYING PATTERN FOR NORDIC SQUARE



Runner Bond

Other patterns available when combining Nordic Stone and Nordic Square.



Specifications per pallet	Small Rectangle	Large Rectangle	Square
Length	60 mm (2.36 in)	180 mm (7.1 in)	122 mm (4.8 in)
Width	122 mm (4.8 in)	122 mm (4.8 in)	122 mm (4.8 in)
Thickness	60 mm (2.36 in)	60 mm (2.36 in)	60 mm (2.36 in)
Total sq. ft./pallet	112		
Sq. ft./pallet	7	62.8	42.2
Sections/pallet	9		
Units/section	10	30	30
Sq. ft./section	0.8	6.97	4.68
Weight/pallet	3,051 lbs/1,384 kg (full cube)		

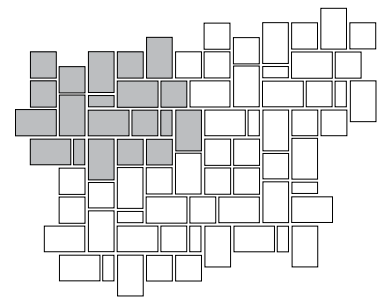
Venetian Circle Kits are also available to add innovative design opportunities to your outdoor environment.

Add a Venetian Circle Kit to create full and half circles, fans, or a sweeping radius.

STANDARD COLOURS

- Blackwood

LAYING PATTERNS FOR VENETIAN RANDOM



Venetian Random bundle contains these sizes: Small rectangle, square and large rectangle.

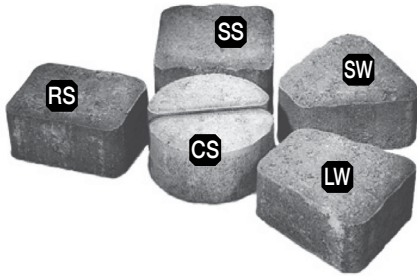


VENETIAN

60 MM CIRCLE KIT



Venetian Circle

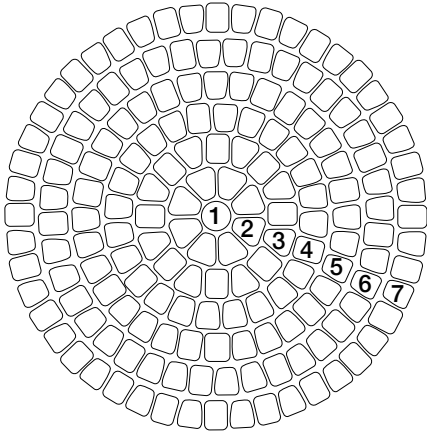


Pallet contains all five (5) sizes.
61 sq. ft./pallet

Dimensions	Length	Width	Thickness	Units/pallet	Weight/pallet
Full Cube	-	-	-	480	1,834 lbs/832 kg
Square Stone (SS)	122 mm (4.8 in)	122 mm (4.8 in)	60 mm (2.36 in)	104	
Rectangular Stone (RS)	91 mm (3.6 in)	122 mm (4.8 in)	60 mm (2.36 in)	144	
Large Wedge (LW)	130 mm (5.1 in)	122 mm (4.8 in)	60 mm (2.36 in)	32	
Small Wedge (SW)	91 mm (3.6 in)	122 mm (4.8 in)	60 mm (2.36 in)	192	
Centre Stone (CS)	122 mm (diameter) (4.8 in)		60 mm (2.36 in)	8 (16 halves)	

CIRCLE DESIGN CHART

The Venetian Circle bundle can make up to one 2.57 m (8 ft 3 in) diameter circle or up to two 7.55 m (5 ft 7 in) diameter circles.



For each 1.55 m (5 ft 1 in) diameter circle, follow this laying pattern.

Ring	CS	LW	SW	R	SQ	Details
1	2					
2		8				
3		8		7	1	Alternate LW and R, finish with SQ
4			20		3	Place SQ after every 7 SW
5			20	7	4	SW, SW, SW, R, SW, SW, SW, R, SQ (repeat)
6			24	17		SW, SW, R, SW, SW, R (repeat)
7			24	24	1	Alternate SW and R, finish with SQ
Total:	2	16	88	55	9	

For each 2.51 m (8 ft 3 in) circle, add rings 8-11 as follows.

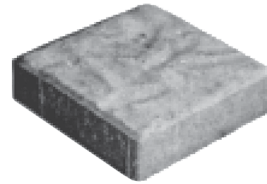
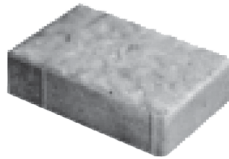
Ring	CS	LW	SW	R	SQ	Details
8			24	31	2	2 SW, R, SW, R, SW, R, R (repeat)*
9			24	40		R, R, SW, R, R, SW, R, SW (repeat)
10			32		31	Alternate SW and SQ
11			22		45	SQ SQ SW, SQ SQ SW (repeat)
Total:	2	16	190	126	87	

*Place SQ at top and bottom of circle (180° apart).

HELPFUL HINTS

1. Circle packs should be installed starting from the inside (centre stone) and working outwards.
2. When spreading bedding sand for the centre of the circle, spread sand over large enough area to allow placement of stones without disturbing material. Spread additional bedding sand as circle progresses outward.
3. When circle is completed, install the remaining area as per normal, taking extra care around circle to ensure lines are maintained. Leave cutting of final filler pieces directly around the perimeter of the circle to the end.
4. To prevent stones from spreading, do not compact circle into bedding sand until previous step is complete.

Note: There will be some gaps between stones because the circumference of each ring is different.

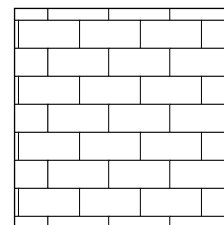


Specifications per pallet	Belgium 6x9	Belgium 12x12
Length	225 mm (8.9 in)	300 mm (11.8 in)
Width	150 mm (5.9in)	300 mm (11.8 in)
Thickness	60 mm (2.36 in)	60 mm (2.36 in)
Units/pallet	280	120
Weight/pallet	2,673 lbs/1,213 kg	3,081 lbs/1,398 kg
Sq. ft./pallet	105	120
Sections/pallet	7	4
Units/section	40	30
Sq. ft./section	15	29.3
Stone/sq. ft.	2.67	1.03
LN FT/section	23.6	29.3
LN FT/pallet	165.2	117.2

STANDARD COLOURS

- Blackwood
- Midnight Charcoal (6x9 size only)
- Nipissing

LAYING PATTERNS FOR BELGIUM STONES



Runner Bond

Belgium 12 x 12 not recommended for heavy vehicle applications.



70 MM



50 MM

APPIAN STONE

70 | 50



Small rectangle



Square



Large rectangle

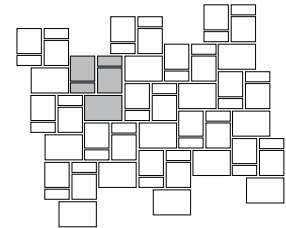
Dimensions	Length	Width
Small rectangle	330 mm (13 in)	165 mm (6.5 in)
Square	330 mm (13 in)	330 mm (13 in)
Large rectangle	495 mm (19.5 in)	330 mm (13 in)

Appian 70 mm

Pallet contains 9 layers

Specifications per pallet	Full cube	Small rectangle	Square	Large rectangle
Units/pallet	90	36	36	18
Weight/pallet	2,911 lbs/1,321 kg	-	-	-
Units/layer	-	4	4	2
Sq. ft./pallet	95.6	21	42.1	32.5
Stones/sq. ft.	-	1.7	0.85	0.56

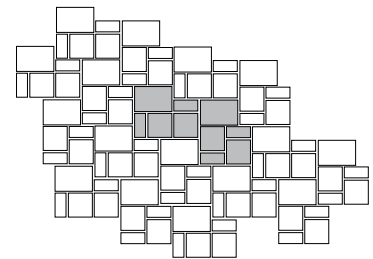
LAYING PATTERNS FOR APPIAN STONES



Appian 50 mm

Pallet contains 12 layers

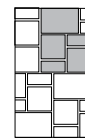
Specifications per pallet	Full cube	Small rectangle	Square	Large rectangle
Units/pallet	120	48	48	24
Weight/pallet	2,722 lbs/1,235 kg	-	-	-
Units/layer	-	4	4	2
Sq. ft./pallet	127.4	28.2	56.5	42.7
Stones/sq. ft.	-	1.7	0.85	0.56



Appian Soldier Pavers

Specifications per pallet	Appian Soldier Pavers 70 mm	Appian Soldier Pavers 50 mm
Weight/pallet	2,761 lbs/1,253 kg	2,653 lbs/1,203 kg
Layers/pallet	9	12
Sq. ft./pallet	95.6	127.4
Units/layer	18	18
Sq. ft./layer	10.62	10.62
Soldier/pallet (LF)	87.75	117
Sailor/pallet (LF)	175.5	234

Walkway 52" wide



STANDARD COLOURS

- Blackwood
- Driftwood
- Nipissing
- Timberwood

A rubber pad must be used with a compactor. Snow removal without a poly (rubber) edge will scar/damage the product surface due to textured finish.



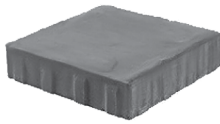
70 MM



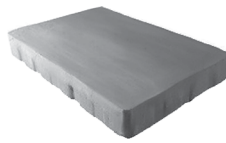
50 MM



Small rectangle



Square



Large rectangle

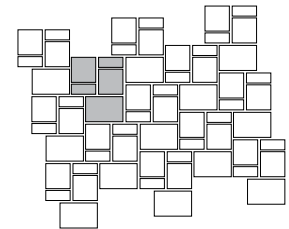
Dimensions	Length	Width
Small rectangle	330 mm (13 in)	165 mm (6.5 in)
Square	330 mm (13 in)	330 mm (13 in)
Large rectangle	495 mm (19.5 in)	330 mm (13 in)

Aztec 70 mm

Pallet contains 9 layers

Specifications per pallet	Full cube	Small rectangle	Square	Large rectangle
Units/pallet	90	36	36	18
Weight/pallet	2,928 lbs/1,329 kg	-	-	-
Units/layer	-	4	4	2
Sq. ft./pallet	95.6	21	42.1	32.5
Stones/sq. ft.	-	1.7	0.85	0.56

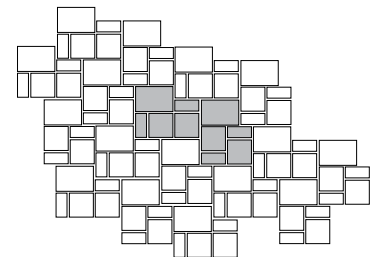
LAYING PATTERNS FOR AZTEC STONES



Aztec 50 mm

Pallet contains 12 layers

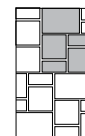
Specifications per pallet	Full cube	Small rectangle	Square	Large rectangle
Units/pallet	120	48	48	24
Weight/pallet	2,803 lbs/1,272 kg	-	-	-
Units/layer	-	4	4	2
Sq. ft./pallet	127.4	28.2	56.5	42.7
Stones/sq. ft.	-	1.7	0.85	0.56



Aztec Soldier Pavers

Specifications per pallet	Aztec Soldier 70 mm	Aztec Soldier 50 mm
Weight/pallet	2,831 lbs/1,284 kg	2,716 lbs/1,232 kg
Layers/pallet	9	12
Sq. ft./pallet	95.6	127.4
Units/layer	18	18
Sq. ft./layer	10.62	10.62
Soldier/pallet (LF)	87.75	117
Sailor/pallet (LF)	175.5	234

Walkway 52" wide



STANDARD COLOURS

- Blackwood
- Driftwood
- Nipissing
- Timberwood

A rubber pad must be used with a compactor. Snow removal without a poly (rubber) edge will scar/damage the product surface due to textured finish.



APPIAN XL

70



Appian 70 XL



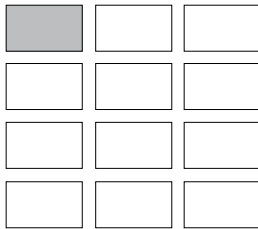
Specifications per pallet	Full cube
Length	826 mm (32.5 in)
Width	495 mm (19.5 in)
Units/pallet	18
Layers/pallet	9
Weight/pallet	2,692 lbs/1,221 kg
Units/layer	2 pcs
Sq. ft./pallet	79.2
Stones/sq. ft.	0.23

STANDARD COLOURS

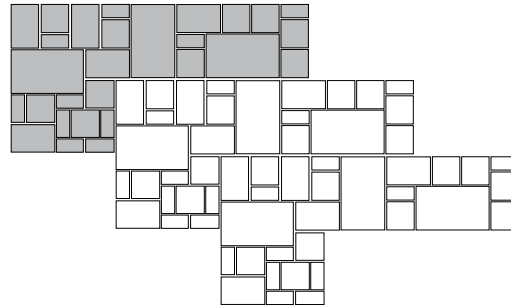
- Blackwood
- Nipissing

COMBO BUNDLE LAYING PATTERNS

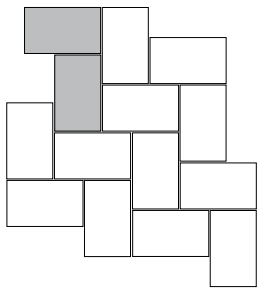
Open Permeable
100% XL



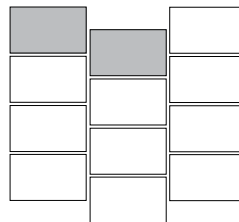
Pattern B
33% XL, 67% Combo Bundle



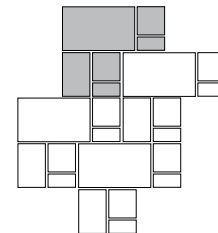
Herringbone
100% XL



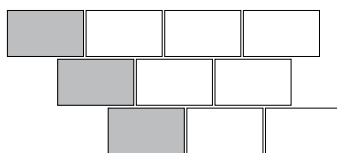
Soldier 1/2 Offset
100% XL



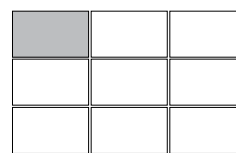
Pattern A
45% XL, 55% Combo Bundle



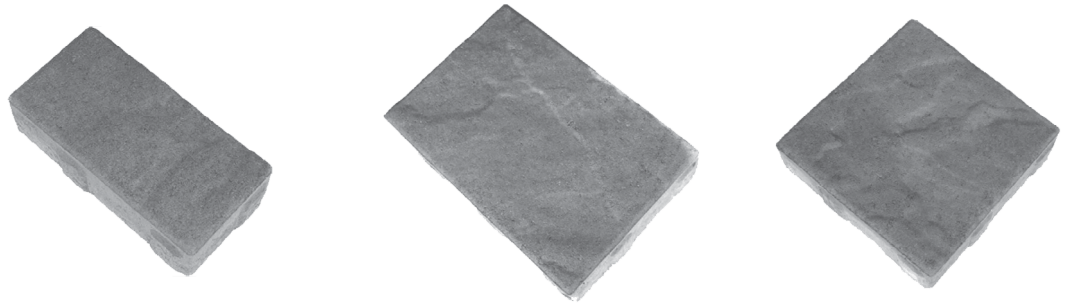
Sailor 1/3 Offset
100% XL



Square Pattern
100% XL



A rubber pad must be used with a compactor. Snow removal without a poly (rubber) edge will scar/damage the product surface due to textured finish.

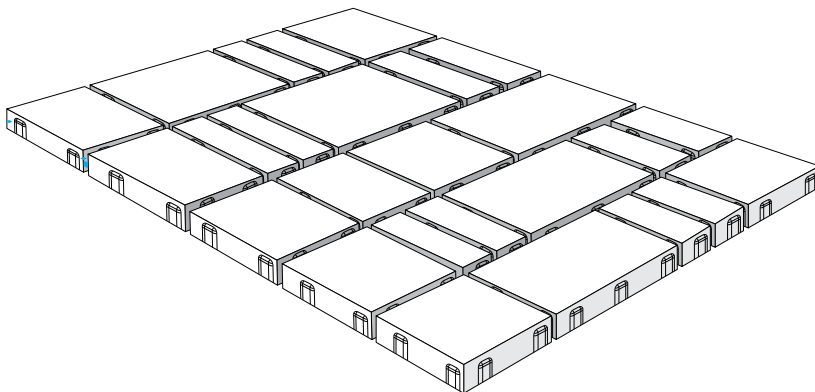


Specifications per pallet	Small Rectangle	Large Rectangle	Square
Length	115 mm (4.52 in)	345 mm (13.58 in)	230 mm (9.05 in)
Width	230 mm (9.05 in)	230 mm (9.05 in)	230 mm (9.05 in)
Thickness	60 mm (2.36 in)	60 mm (2.36 in)	60 mm (2.36 in)
Units/pallet	120	50	90
Units/layer	12	5	9
Weight/pallet	3,368 lbs/1,528 kg		
Sq. ft./pallet	127.8		
Stones/layer	26		
Sq. ft./layer	12.8		

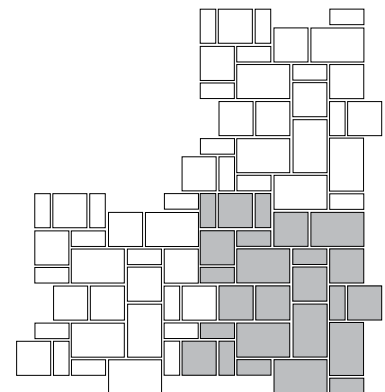
STANDARD COLOURS

- Blackwood
- Driftwood
- Nipissing
- Timberwood

AMBERLEY PALLET LAYER



RANDOM PATTERN



Linear patterns available.

A rubber pad must be used with a compactor. Snow removal without a poly (rubber) edge will scar/damage the product surface due to textured finish.



ATHENIAN

SPECIAL ORDER

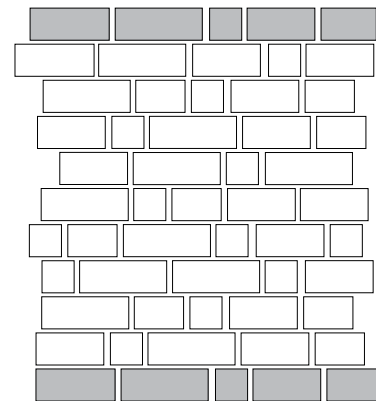


Specifications per pallet				
Length	163 mm (6.42 in)	245 mm (9.65 in)	327 mm (12.87 in)	409 mm (16.1 in)
Width	163 mm (6.42 in)	163 mm (6.42 in)	163 mm (6.42 in)	163 mm (6.42 in)
Thickness	70 mm (2.76 in)	70 mm (2.76 in)	70 mm (2.76 in)	70 mm (2.76 in)
Weight/pallet	2,968 lbs/1,347 kg			
Layers/pallet	8			
Sq. ft./layer	12			
Sq. ft./pallet	96			

STANDARD COLOURS

- Blackwood
- Nipissing

LAYING PATTERN





Dimensions	
Length	355 mm (14 in)
Width	115 mm (4.53 in)
Thickness	80 mm (3.15 in)



Dimensions	
Length	315 mm (12.4 in)
Width	115 mm (4.53 in)
Thickness	80 mm (3.15 in)



Dimensions	
Length	275 mm (10.83 in)
Width	115 mm (4.53 in)
Thickness	80 mm (3.15 in)



Dimensions	
Length	235 mm (9.25 in)
Width	115 mm (4.53 in)
Thickness	80 mm (3.15 in)



Dimensions	
Length	355 mm (14 in)
Width	85 mm (3.35 in)
Thickness	80 mm (3.15 in)



Dimensions	
Length	315 mm (12.4 in)
Width	85 mm (3.35 in)
Thickness	80 mm (3.15 in)



Dimensions	
Length	275 mm (10.83 in)
Width	85 mm (3.35 in)
Thickness	80 mm (3.15 in)



Dimensions	
Length	235 mm (9.25 in)
Width	85 mm (3.35 in)
Thickness	80 mm (3.15 in)

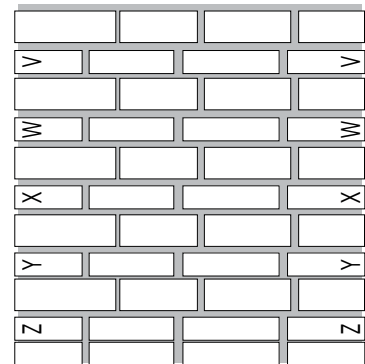
Specifications per pallet

Weight/pallet	3,462 lbs/1,571 kg
Layers/pallet	7
Sq. ft./layer	13.6
Sq. ft./pallet	95.2

SPECIAL ORDER

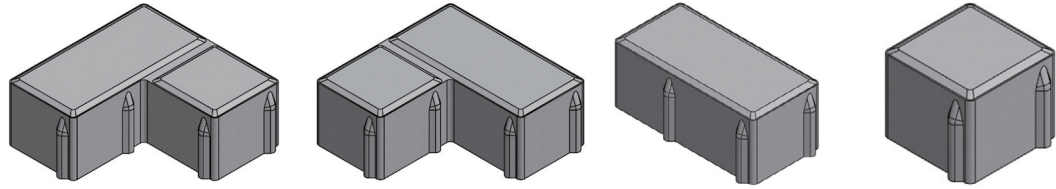
- Colour selected at time of order.
- Minimum order is required.

LAYING PATTERN



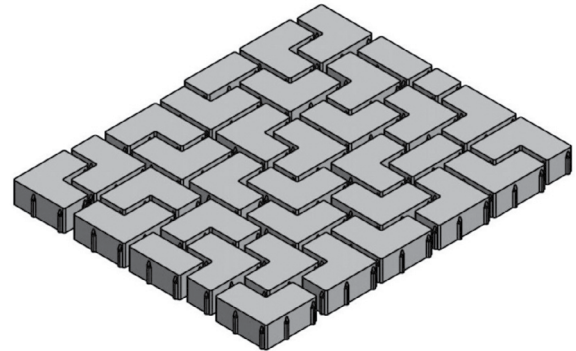


DC 80 PERMEABLE PAVER SYSTEM



Specifications per pallet	Block 1	Block 2	Block 3	Block 4
Length	193 mm (7.6 in)	193 mm (7.6 in)	93 mm (3.7 in)	93 mm (3.7 in)
End of "L"	93 mm (3.7 in)	93 mm (3.7 in)		
Width	193 mm (7.6 in)	193 mm (7.6 in)	193 mm (7.6 in)	93 mm (3.7 in)
Thickness	80 mm (2.76 in)	80 mm (2.76 in)	80 mm (2.76 in)	80 mm (2.76 in)
Weight/pallet	2,391 lbs/1,085 kg			
Layers/pallet	7			
Sq. ft./layer	10.5			
Sq. ft./pallet	73.5			

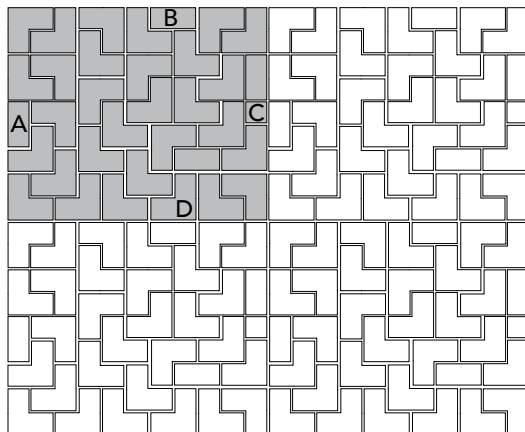
- Permeable product
- Designed for mechanical and manual installation
- 6% void space
- For standard application, use wide joint permeable jointing material
- For permeable application, use a clean washed stone chip as specified by designer



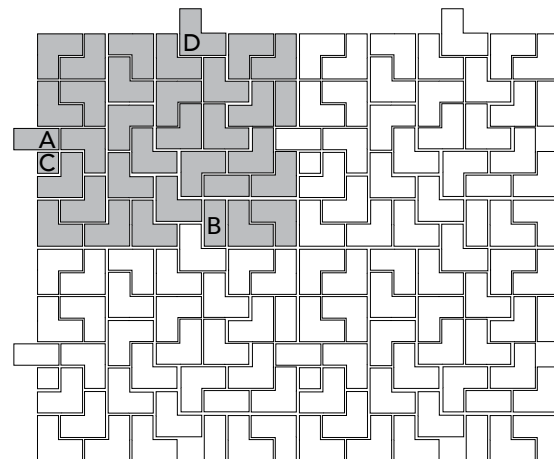
SPECIAL ORDER

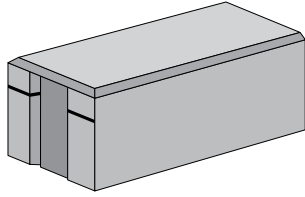
- Colour selected at time of order.
- Minimum order is required.

Laying Pattern A
— without layer interlocking



Laying Pattern B
— with layer interlocking





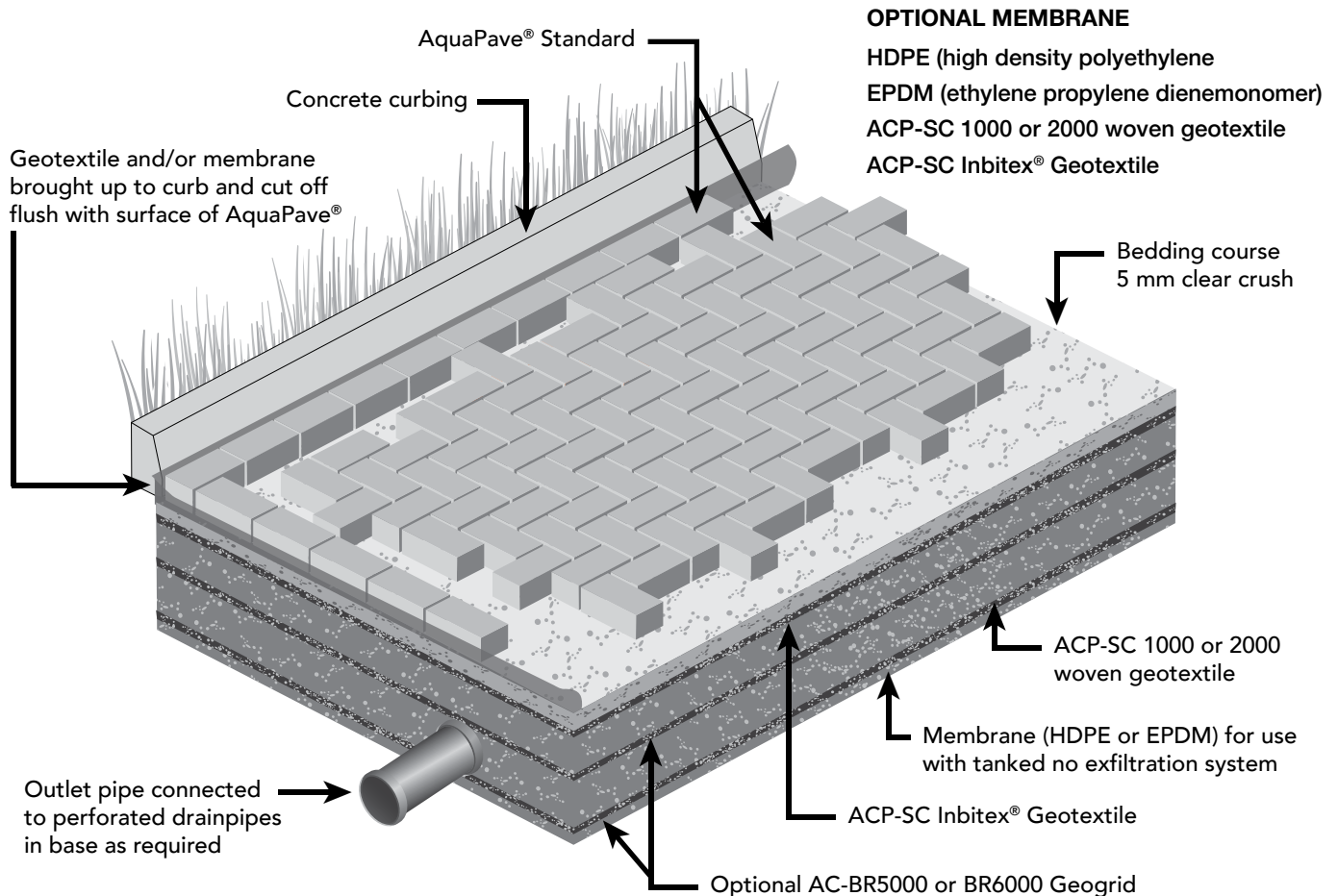
Specifications per pallet	
Length	200 mm (7.9 in)
Width	100 mm (3.9 in)
Thickness	80 mm (3.15 in)
Weight/pallet	2,560 lbs/1,162 kg
Units/pallet	336 (8 rows)
Sq. ft./pallet	73.5
Stones/sq. ft.	4.57

SPECIAL ORDER

- Colour selected at time of order.
- Minimum order is required.

ON-SITE STORMWATER SOURCE CONTROL SYSTEM SCHEMATIC VIEW

Refer to AquaPave® Technical Manual for additional details.



NOTE: Be sure to determine design requirements, if any, by appropriate government agencies.

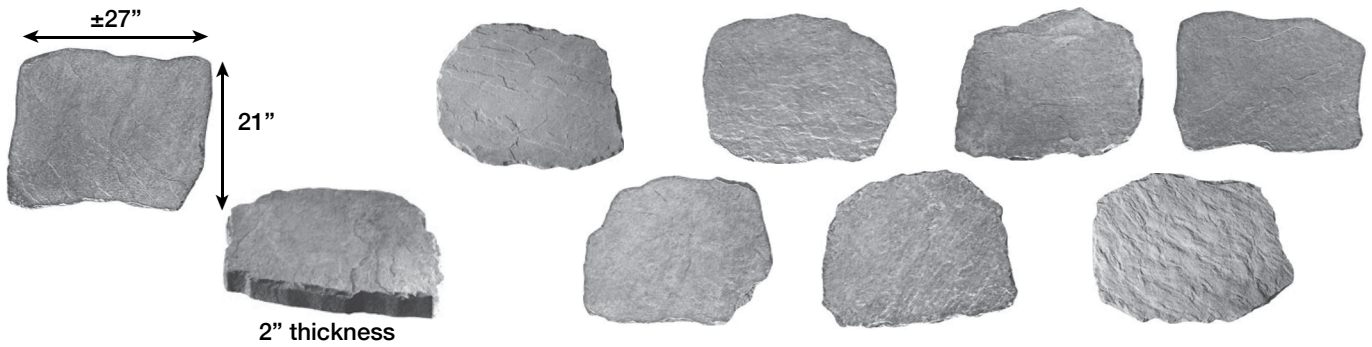


SUPERIOR STEPPERS STONES



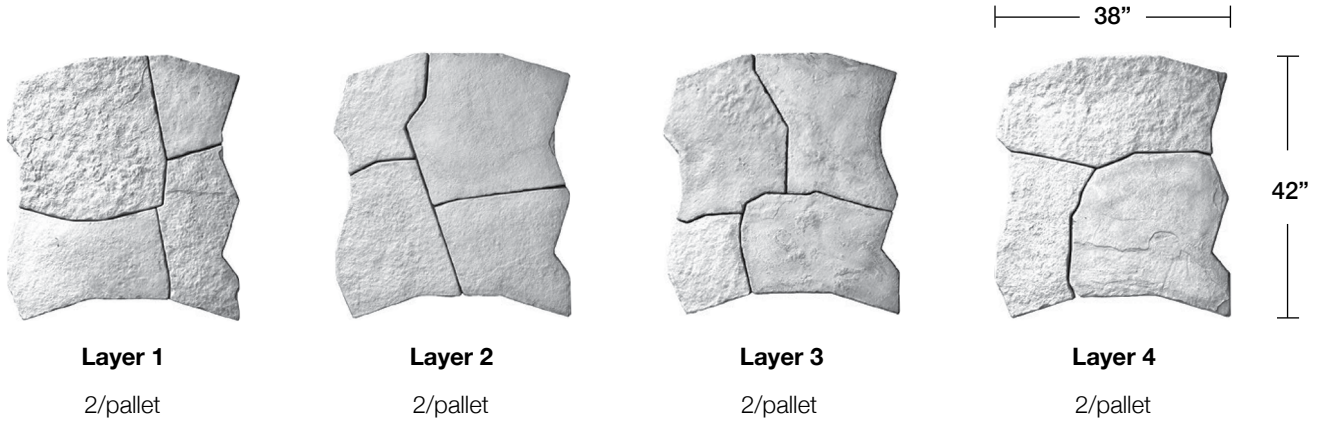
Specifications per pallet

Length	±686 mm (±27 in)
Width	533 mm (21 in)
Thickness	50.8 mm (2 in)
Weight/pallet	1,216 lbs/552 kg
Units/pallet	16
Sq. ft./unit	~3.25
Sq. ft./pallet	~52



STANDARD COLOURS

- Fond Du Lac
- Manitou



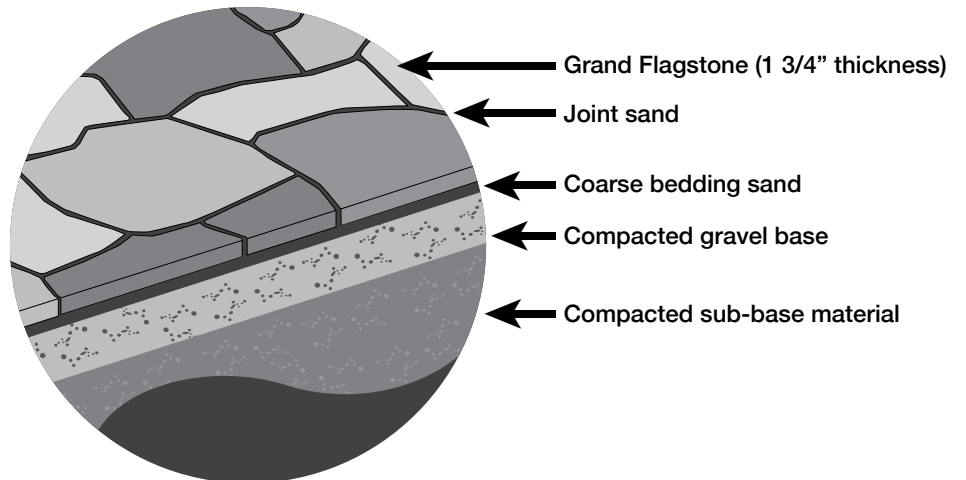
Specifications per pallet

Weight/pallet	±2,100 lbs/953 kg*
Layers/pallet	8
Coverage	90 sq. ft./pallet
Section coverage	11 sq. ft./layer

*Including the pallet.

STANDARD COLOURS

- Manitou





GRAND FLAGSTONE INSTALLATION

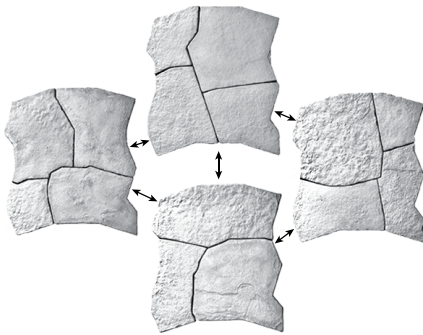


INTERLOCKING LAYERS

Grand Flagstone has been designed so that each layer of slabs on pallet is an interlocking set.

Each interlocking set, or layer, of slabs has been designed to interlock with all other layers.

COMMON POINTS FOR INTERLOCKING LAYERS



PROPERLY PLACED INTERLOCKING LAYERS



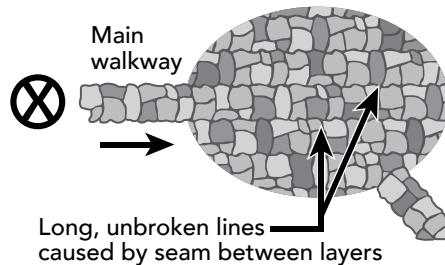
LAYOUT ORIENTATION

Layout orientation is important with Grand Flagstone. Due to the nature of the interlocking sets of slabs, there are long, unbroken joints between rows.

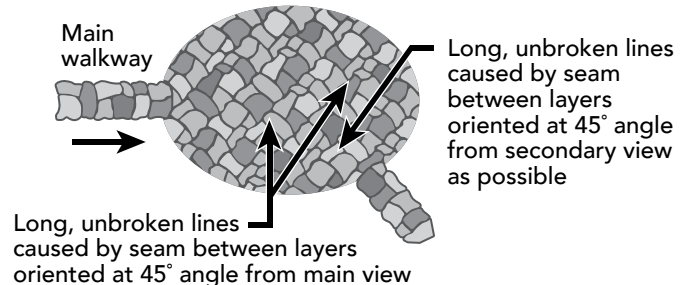
Often, the irregular nature of the Grand Flagstone limits how noticeable these unbroken joints are in the finished project. However, the lines become slightly more noticeable when you are looking parallel to the unbroken joints than when you are looking at them on an angle.

To limit this effect, Grand Flagstone layers should be laid at a 45° angle from the most common viewing angle. This viewing angle would most likely be a patio entrance or step location.

INCORRECT VIEW



CORRECT VIEW



INSTALLING CRACKED PIECES

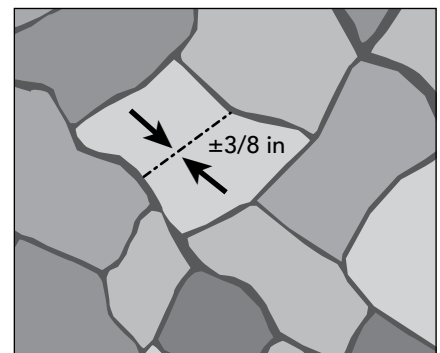
Individual pieces of Grand Flagstone can crack either during delivery to the job or during on-site handling prior to placement. Typically less than 5% of the pieces will crack. There are two methods to deal with cracked pieces.

The first method is to use the cracked pieces to fill in around the edges of the project where there is always a need for small pieces.

The second method is to use the cracked pieces to enhance the layout pattern.

Since Grand Flagstone is designed to create an irregular flagstone walking surface, an extra crack simply provides another joint line in the Grand Flagstone pattern. Place the cracked pieces next to each other with a 10 mm (3/8 in) joint between them. The joint is filled with polymeric jointing sand just like all other joints.

If necessary, the cracked pieces may need to be trimmed to create a smooth edge or provide a larger joint to match all the other joints in your project.



1. Trim broken edges if needed.
2. Install pieces with typical 10 mm (3/8 in) joint.



Thank you for your interest in installing Brown's paving products. You will find that these products truly combine the look of natural stone with the efficiency and consistency of concrete pavers. The following guide lays out proper installation techniques for Brown's Grand Flagstone. For optimal colour blending, you must mix and install products from several different pallets simultaneously. We hope this provides helpful tips for a fast, enjoyable installation.

SAFETY

Make safety a top priority when installing Brown's paving products by the following points:

1. Contact your local utility marking service prior to excavating. Be sure to follow all governmental safety regulations.
2. Always wear the appropriate personal protective equipment (PPE). This may include gloves, steel-toed boots, safety glasses, hearing protection.
3. Flagstone slabs are heavy. Follow proper lifting techniques to avoid back injury. Also, use two people to set larger pieces.

PROJECT PLANNING

The first step in installing Brown's paving products is to plan your project. Paver layout and placement is important to ensure a functional and good-looking installation. Remember, Brown's flagstone products are suitable for pedestrian loading only (patios, walkways, etc.) and will not support the load of a vehicle.

EXCAVATION AND BASE PREPARATION

Once you are ready to start construction, you will need to lay out the project area:

1. Mark out the area of the installation with marking paint.
2. Mark a second line 305 mm (12 in) outside the first line that indicates the area to be excavated. This over-excavation will allow for proper base installation.
3. Excavate to the required depth and grade for the installation of the specific paving product you are installing (see cross-sections for minimum recommended excavation depths).
4. Once the excavation depth has been established, compact the sub-grade using a plate tamper. Brown's Concrete Products Limited recommends laying a woven geotextile down before applying any granular base materials.

PERMEABLE INSTALLATIONS

Unless specified, avoid compaction of existing sub-grade soils if installing a permeable pavement.

PLACE THE COMPACTED GRAVEL BASE

1. For standard paver and flagstone installations, begin by spreading half of the granular base material in the excavation.
2. Compact this first lift to 98% Standard Proctor density using a plate tamper and adding water as needed.
3. Add the second lift of granular material and compact it in the same manner as the first. For permeable paver installations, install open graded sub-base and base course material as specified in the project drawings.

NOTE: Lifts should not exceed 150 mm (6 in) thickness.

KEY POINT

When installing granular base materials, be sure to consider proper grades to prevent water from standing on the surface and make sure that water is directed away from building structures.

PAVER INSTALLATION

Bedding material requirements and paver installation vary by product type. Please see the following product-specific installation instructions and tips for more details on paver installation.



GRAND FLAGSTONE INSTALLATION



BEDDING SAND INSTALLATION

1. Using screed rails on the compacted granular base, apply bedding sand at a maximum thickness of 25 mm (1 in). By using a screed board along the top of the screed rails, the bedding sand will level evenly.
2. Bedding sand should be compacted since Grand Flagstone slabs should not be compacted after installation.

FLAGSTONE INSTALLATION

1. Begin by laying the individual pieces of Grand Flagstone on the screeded bedding material according to your details project plan.
2. Separate individual pieces approximately 10 mm (3/8 in) from each other. When units are set with a 10 mm (3/8 in) gap, a full pallet will produce 90 sq. ft. (8.36 sq. m.) coverage.
3. Cut units as needed to finish edges.

NOTE: To ensure proper colour distribution, mix layers from several bundles at one time.

JOINT SAND INSTALLATION

1. Once the flagstone pieces are installed, fill all joints with jointing sand suitable for large joints. Sweep the sand into the joints between flagstones until the joints are completely filled.
2. Follow the jointing sand manufacturer's recommendations for wetting the sand.

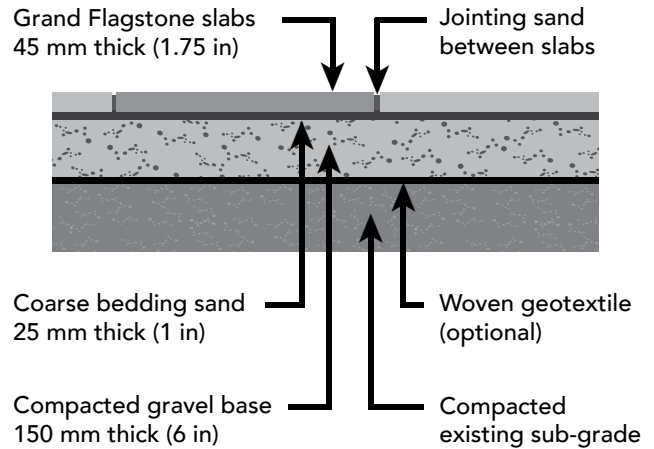
CAUTION: Grand Flagstone slabs should not be compacted after installation.

OTHER CONSIDERATIONS: SEALING

You may want to apply a sealer to protect the flagstone slabs from spills and stains. Always use a high-quality sealer specifically formulated for wet-cast concrete.

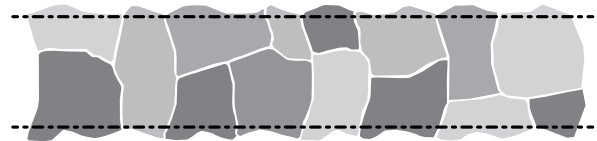
NOT SUITABLE for vehicular traffic.

TYPICAL CROSS-SECTION

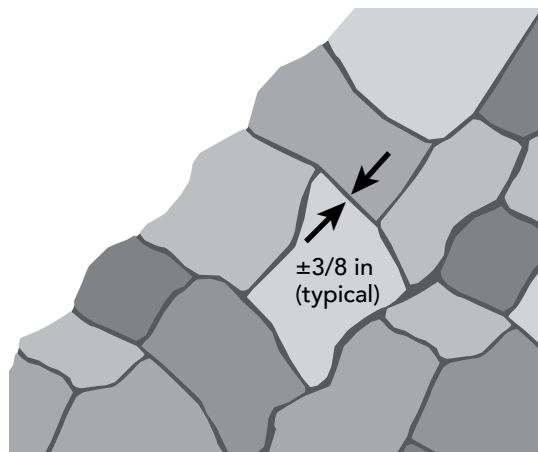


STRAIGHT WALKWAY INSTALLATION

Leave jagged edge or trim to provide smooth edge (optional).



PLACING GRAND FLAGSTONE



SIGNATURE CURBS

DRIVEWAY | STONE EDGE | MILLSTONE



Specifications per pallet	Driveway Curb	Stone Edge Curb	Millstone Curb
Length	1,000 mm (39 in)	914 mm (36 in)	609.6 mm (24 in)
Width	150 mm (6 in)	177 mm (7 in)	100.1 mm (3.94 in)
Height	150 mm (6 in)	152 mm (6 in)	119.9 mm (4.72 in)
Weight/pallet	2,193 lbs/995 kg	2,898 lbs/1,315 kg	2,981 lbs/1,353 kg
Units/pallet	20	20	80
Linear ft/pallet	65	60	160

Standard colours	Driveway Curb	Stone Edge Curb	Millstone Curb
	Charcoal	Ebony	Charcoal
	Granite		Granite



OUTCROPPING

RETAINING WALL



Pallet A



Specifications/pallet	Block 1	Block 2	Block 3	Block 4
Length	1,067 mm (42 in)	1,219 mm (48 in)	1,524 mm (60 in)	1,676 mm (66 in)
Height	305 mm (12 in)	305 mm (12 in)	305 mm (12 in)	305 mm (12 in)
Weight/stone	±743 lbs/±337 kg	±849 lbs/±385 kg	±1,061 lbs/±481 kg	±1,167 lbs/±529 kg
Units/pallet	1	1	1	1
Coverage/sq. ft	18			
Weight/pallet	±3,819 lbs/±1,732 kg			

Pallet B



Specifications/pallet	Block 1	Block 2	Block 3	Block 4	Block 5	Block 6
Length	610 mm (24 in)	889 mm (36 in)	889 mm (36 in)	1,219 mm (48 in)	1,372 mm (54 in)	1,829 mm (72 in)
Height	153 mm (6 in)	153 mm (6 in)	305 mm (12 in)	153 mm (6 in)	305 mm (12 in)	305 mm (12 in)
Weight/stone	±214 lbs ±97 kg	±321 lbs ±145 kg	±428 lbs ±194 kg	±642 lbs ±291 kg	±963 lbs ±436 kg	±1,284 lbs ±582 kg
Units/pallet	1	1	1	1	1	
Coverage/sq. ft	18					
Weight/pallet	±3,853 lbs/±1,748 kg					

STANDARD COLOURS

- Manitou
- Windsor

NOTE: Actual weight and colour may vary.

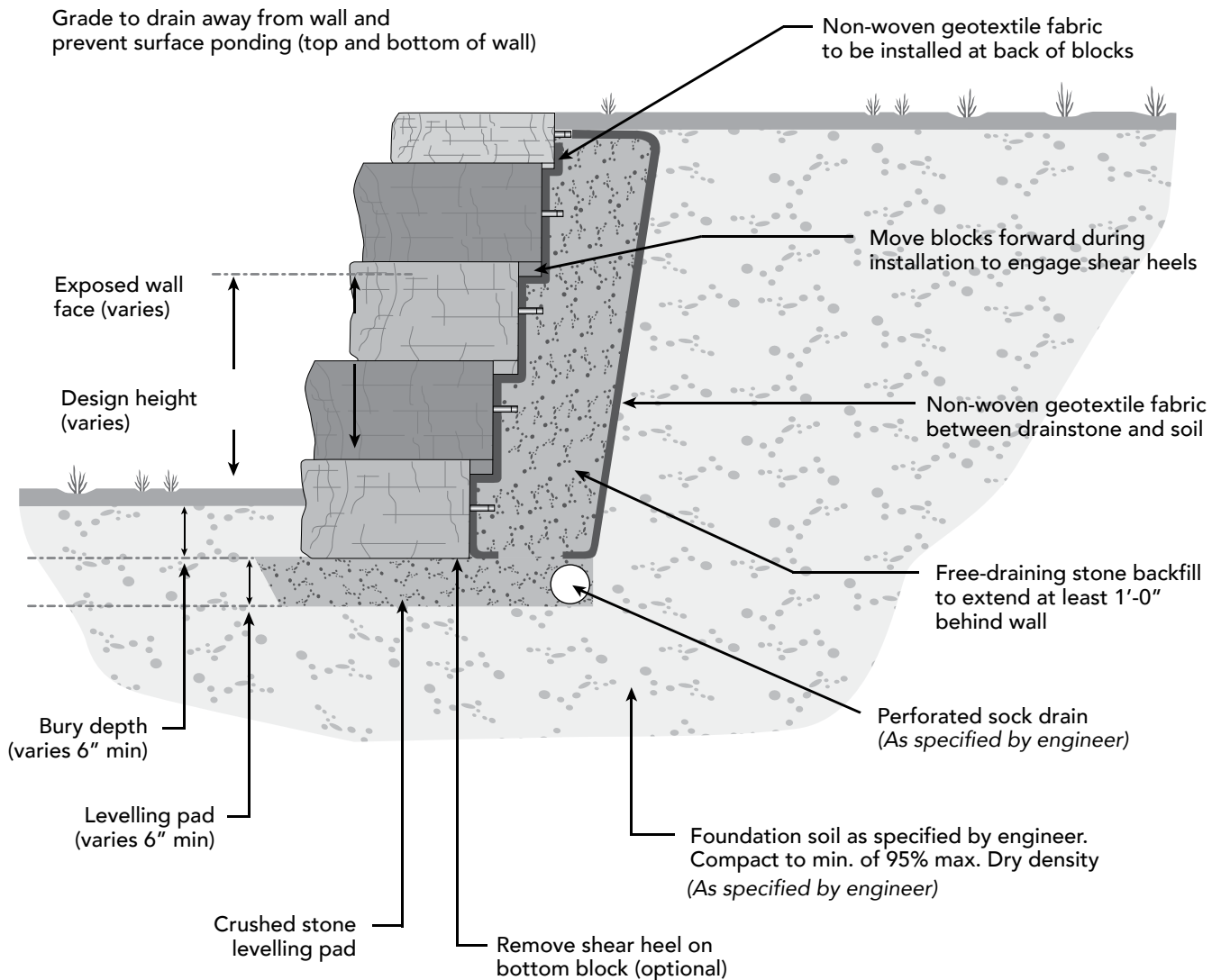


TYPICAL GRAVITY WALL SECTION

This page shows the typical construction details for gravity walls. These drawings are representative of the major components required in wall construction.

Specific details, including geotextile reinforcement layers, drainage details, soil requirements, etc., shall be per professionally-engineered design for wall.

For more cross-section and design options, please visit www.rosettahardscapes.com and click on "engineering."





FREESTANDING WALL



Pallet G



Specifications per pallet	Block 1	Block 2	Block 3
Length	1,829 mm (72 in)	914 mm (36 in)	914 mm (36 in)
Width	762 mm (30 in)	762 mm (30 in)	762 mm (30 in)
Height	305 mm (12 in)	305 mm (12 in)	152 mm (6 in)
Units/pallet	1	1	1
Weight/stone	±1,882 lbs/±853 kg	±941 lbs/±426 kg	±471 lbs/±213 kg
Coverage/sq. ft.	10.5		
Weight/pallet	±3,294 lbs/±1,495 kg		

Pallet H



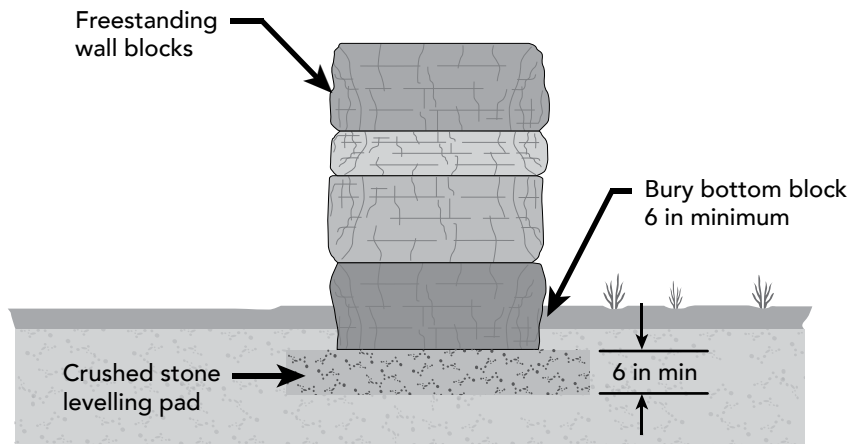
Specifications per pallet	Block 1	Block 2	Block 3
Length	1,524 mm (60 in)	1,219 mm (48 in)	1,219 mm (48 in)
Width	762 mm (30 in)	762 mm (30 in)	762 mm (30 in)
Height	305 mm (12 in)	305 mm (12 in)	152 mm (6 in)
Units/pallet	1	1	1
Weight/stone	±1,446 lbs/±655 kg	±1,156 lbs/±524 kg	±578 lbs/±262 kg
Coverage/sq. ft.	11		
Weight/pallet	±3,181 lbs/±1,443 kg		

STANDARD COLOURS

- Manitou
- Windsor

TYPICAL FREESTANDING WALL

This diagram shows typical construction details for Outcropping Freestanding walls, representative of standard components required in wall construction. Specific details including drainage details, soil requirements, etc., must be based upon professionally-engineered per-project.



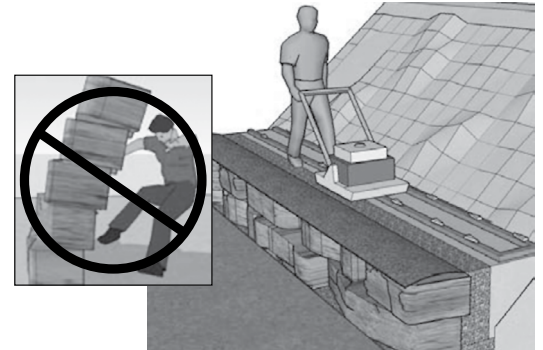
NOTE: Block size and placement shown are for reference only. Individual Brown's blocks will vary with installation pattern. Actual design must be performed by a licensed engineer.



NOTES FOR INSTALLATIONS REQUIRING GEOGRID

Visit www.rosettahardscapes.com for detailed cross-sections of geogrid reinforced Outcropping walls.

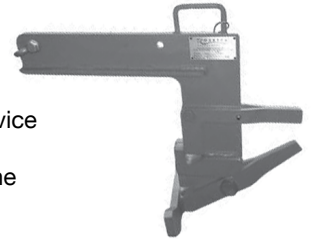
- ❑ For Brown's Outcropping installations, do not overlap geogrid over top of blocks. Instead: Run the geogrid directly up to the back of the blocks.
- ❑ In addition to this reinforcement, a Paraweb strap must be installed through each lifting hook in the back of the Outcropping blocks. Please see standard details for Reinforced Outcropping Walls for further information.
- ❑ Place and compact drainstone and reinforced fill following the procedure used to set the bottom and upper courses of blocks. It is important to place and compact the stone and reinforced fill starting at the back of the retaining blocks and extending into the reinforced soil zone. This will help eliminate "bunching" of the geogrid reinforcement.
- ❑ Reinforced zone fill material is typically a sand or gravel with less than 5% "fines" (material passing the No. 200 sieve). This material is usually classified as a GW, GP, SW, or SP. It is very important that you only use the fill material specified in your project design drawings and specifications.
- ❑ Place retained soil immediately between the reinforced soil zone and the back of the excavation. Material should be placed in loose lifts of 200 mm (8 in) maximum and compacted to 95% maximum density as determined by a Standard Proctor test (ASTM D698).
- ❑ Bring the reinforced and retained soil up to grade at the same time. At no time should the elevation of the reinforced soil be more than one block higher than the retained soil.
- ❑ Tracked construction equipment should not be used directly on the geogrid. A minimum of 150 mm (6 in) of fill is required between tracked equipment and geogrid to prevent damage to the grid. Rubber-tired equipment may pass over the geogrid when travelling at low speeds of 5 mph (8 km/h) or less. Avoid any sudden stopping or turning of construction equipment in the reinforced fill zone to prevent moving or damaging the geogrid layers. Follow geogrid manufacturer's requirements, including requirements for vertical separation and overlap of geogrid.



NOTE: For all installations, never stack blocks more than one course above grade of backfill.

OUTCROPPING LIFTING DEVICE

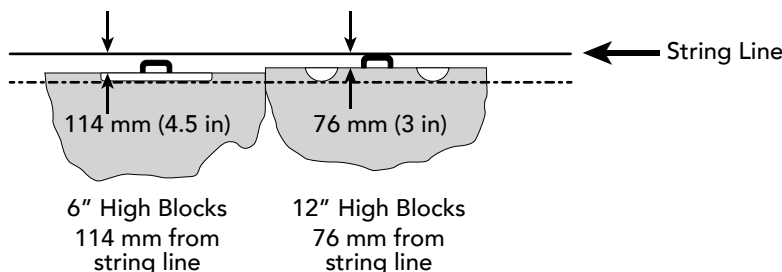
The outcropping lifting device is a required tool for any proper installation using the Outcropping System.



OUTCROPPING LAYOUT NOTES

- ❑ One of the unique features of the Brown's Outcropping system is multiple block heights. To provide a uniform wall batter with multiple height blocks, the setback of the blocks varies proportionally with the block height. This setback in blocks is achieved with shear heels which are cast into the Brown's blocks. For a 6 in high block, the shear heels are 3 in deep (1 x 3 in).
- ❑ To ensure proper wall alignment and to account for the multiple height blocks and varying setbacks, the bottom row of blocks must be adjusted based on their height.
- ❑ Set up a traditional string line for the back of the wall, then offset the blocks as per the figure pictured below.

BACK OF WALL STRING LINE (TOP VIEW)





OUTCROPPING INSTALLATION

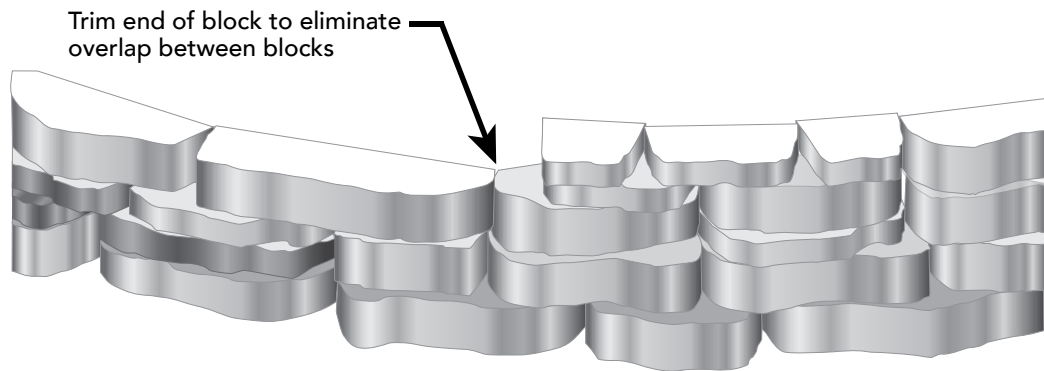
CURVES



OUTSIDE (CONVEX) CURVE

If you are constructing an outside (convex) curve, the wall batter will cause the blocks higher in the wall to have a shorter radius around the curve than lower blocks. This will cause the higher blocks to “grow” in the wall layout pattern. (This is similar in concept to the inside lane of a race track that is shorter than the outside lane). The result is a potential overlap between some of the blocks in the wall.

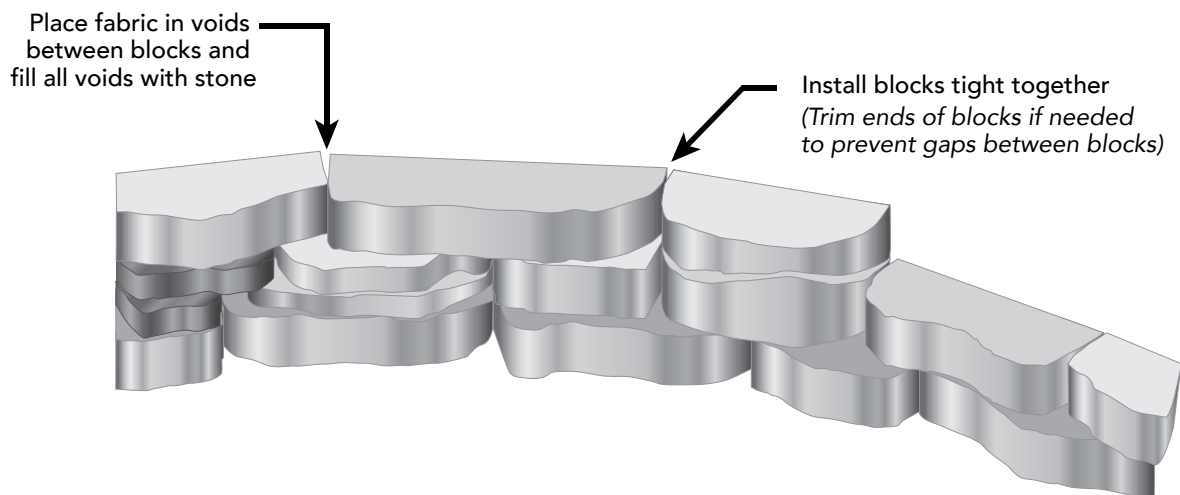
The best way to deal with this overlap is to saw cut the end of the smaller block, which allows the other blocks to fit tightly together. This will properly engage all of the shear heels. Saw cutting here is typically made on an angle to match the taper on the block you are abutting.



INSIDE (CONCAVE) CURVE

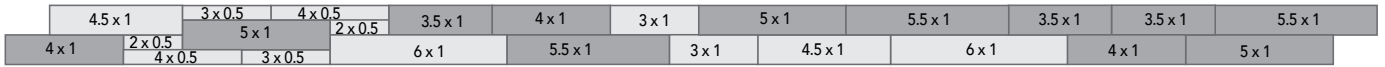
If you are constructing an inside (concave) curve, the wall batter will cause the block higher in the wall to have a longer radius around the curve than the lower blocks. The important step when constructing an inside curve is to keep all blocks fitted tightly together. In most cases, the blocks will touch somewhere along the sides of the blocks, not at the back of the blocks.

If needed, you can trim the ends off of some blocks to prevent gaps from opening up between blocks. When constructing a curve with a short radius, voids may form at the back of the wall where blocks meet. If this happens, simply fill the void areas with filter fabric and drainstone.

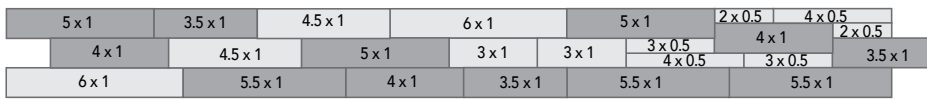




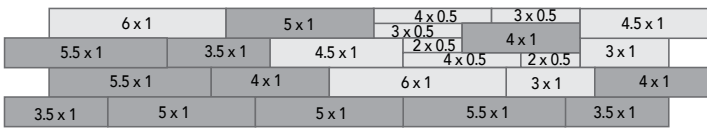
WALL SECTION SHOWN: 2' X 45'



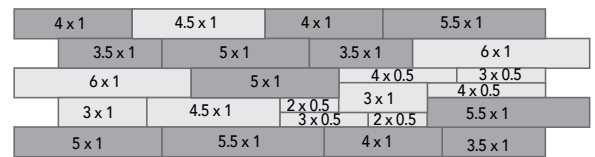
WALL SECTION SHOWN: 3' X 30'



WALL SECTION SHOWN: 4' X 22.5'

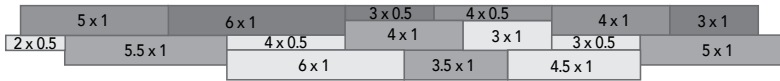


WALL SECTION SHOWN: 5' X 18'

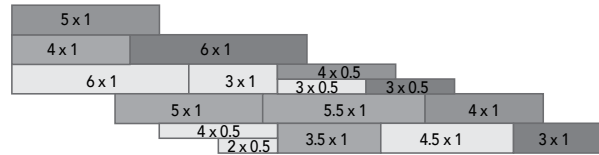


G & H USED AS COPING

Straight Coping

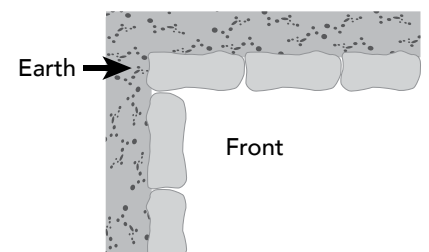
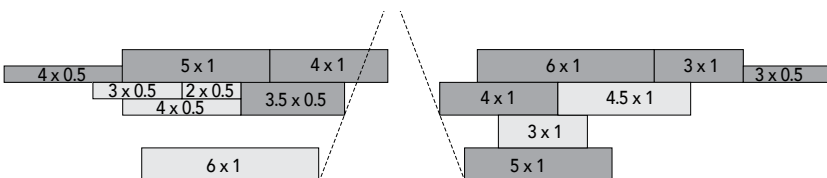


Steps down coping



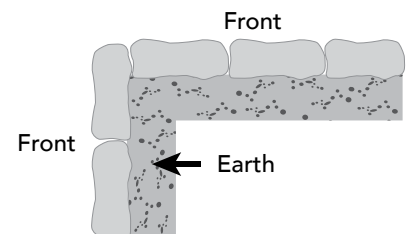
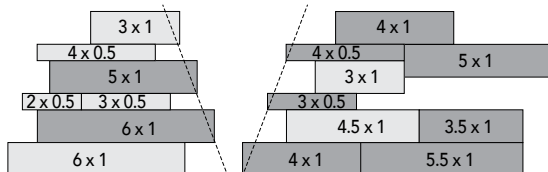
INSIDE CORNER

"Corner" units are not necessary as the units are not exposed. They would only possibly be required on the top for aesthetic purposes.



OUTSIDE CORNER

Using "G" and "H."

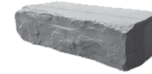
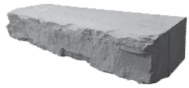




GRAND LEDGE WALL

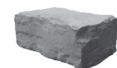
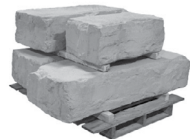


Wall Stones



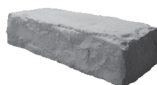
Specifications per pallet	Block 1	Block 2	Block 3	Block 4
Width	1,829 mm (72 in)	1,524 mm (60 in)	1,219 mm (48 in)	914 mm (36 in)
Height	305 mm (12 in)	305 mm (12 in)	305 mm (12 in)	305 mm (12 in)
Depth	508 mm (20 in)	508 mm (20 in)	508 mm (20 in)	508 mm (20 in)
Weight/stone	±1,401 lbs/±635 kg	±1,167 lbs/±529 kg	±934 lbs/±423 kg	±700 lbs/±317 kg
Units/pallet	1	1	1	1
Coverage/sq. ft.	18			
Weight/pallet	±4,202 lbs/±1,906 kg			

Corner Stones



Specifications per pallet	Block 1	Block 2	Block 3	Block 4
Width	1,283 mm (50.5 in)	1,168 mm (46 in)	1,086 mm (42.75 in)	895 mm (35.25 in)
Height	305 mm (12 in)	305 mm (12 in)	305 mm (12 in)	305 mm (12 in)
Depth	648 mm (25.5 in)	533 mm (21 in)	502 mm (19.75 in)	641 mm (24.25 in)
Weight/stone	±1,141 lbs/±517 kg	±1,039 lbs/±471 kg	±966 lbs/±438 kg	±796 lbs/±361 kg
Units/pallet	1	1	1	1
Coverage/sq. ft.	14			
Weight/pallet	±3,796 lbs/±1,722 kg			

Coping Stones



Specifications per pallet	Block 1
Width	1,372 mm (54 in)
Height	305 mm (12 in)
Depth	508 mm (20 in)
Weight/stone	±996 lbs/±451 kg
Units/pallet	4
Coverage/sq. ft.	18
Weight/pallet	±3,983 lbs/±1,807 kg

STANDARD COLOURS

- Fond Du Lac
- Manitou



Rockton Wall



Specifications per pallet	Block 1	Block 2	Block 3	Block 4
Width	1,067 mm (42 in)	762 mm (30 in)	533 mm (21 in)	305 mm (12 in)
Height	152 mm (6 in)	152 mm (6 in)	152 mm (6 in)	152 mm (6 in)
Depth	267 mm (10.5 in)	267 mm (10.5 in)	267 mm (10.5 in)	267 mm (10.5 in)
Weight/stone	±204 lbs/±92 kg	±146 lbs/±66 kg	±102 lbs/±46 kg	±58 lbs/±26 kg
Units/pallet	6	3	6	3
Layer/sq. ft.	7			
Coverage/sq. ft.	21			
Weight/pallet	±2,453 lbs/±1,112 kg			

Rockton Wall Blocks are provided in four basic sizes. The blocks are finished on both the front and back faces of the wall blocks and they are tapered on each side (approximately 1.5 in) from the front to the back of the block.

There are multiple texture patterns for each basic block size to provide a more random look for your finished project. Average block weights of the different texture patterns are shown. Weights of individual blocks may vary.

Rockton Corner



Specifications per pallet	Block 1
Width	533 mm (21 in)
Height	152 mm (6 in)
Depth	267 mm (10.5 in)
Weight/stone	±106 lbs/±48 kg
Units/pallet	24
Layer/sq. ft.	10.5
Coverage/sq. ft.	31.5
Weight/pallet	±2,542 lbs/±1,153 kg

STANDARD COLOURS

- Fond Du Lac
- Manitou

The Rockton Collection contains two corner blocks. These blocks are finished on three sides, and the fourth side is tapered to fit with the other retaining wall and freestanding wall blocks.

The corner blocks can be used to construct columns, provide a finished end on a freestanding wall, and make 90° corners.

There are multiple texture patterns for the faces of both corner blocks, thus providing a more random look for your finished project. Average block weights of the different texture patterns are shown.

NOTE: Each bundle contains 12 right and 12 left configured corners.
Preliminary cross sections available.



ROCKTON INSTALLATION WALL

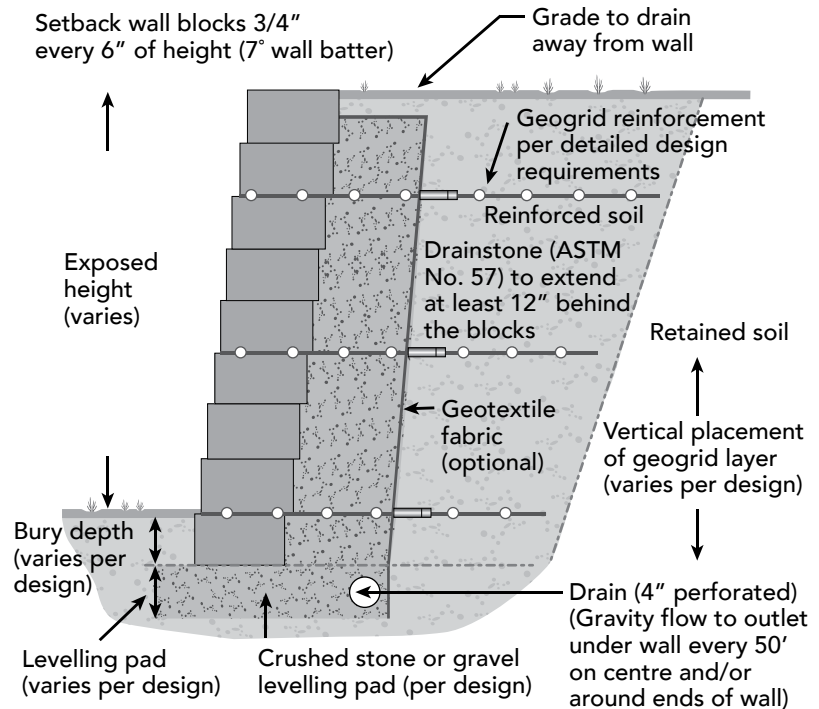


TYPICAL RETAINING WALL

This page shows typical construction details for Rockton retaining walls. These drawings are representative of major components required in wall construction.

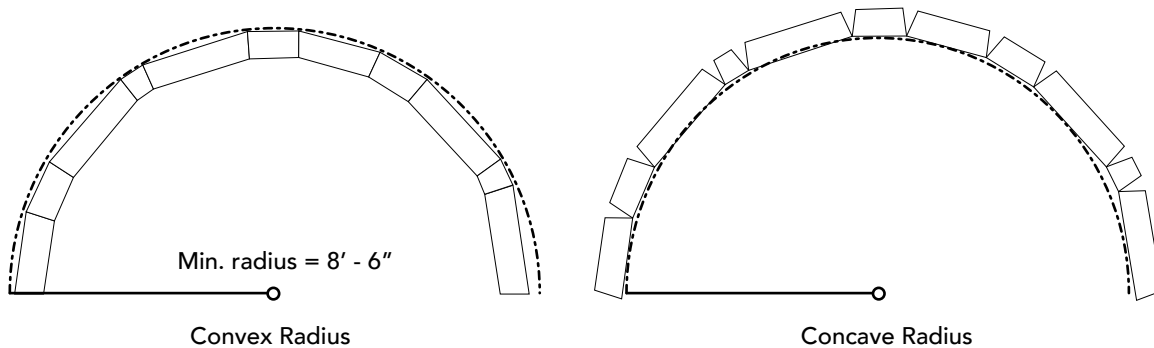
Specific details, including geotextile reinforcement layers, drainage details, soil requirements, etc., shall be per engineered design for wall.

- This drawing is for reference only.
- Final design for construction must be prepared by a registered professional engineer using the actual conditions of the proposed site.
- Final wall design must address both internal and external drainage and shall be evaluated by the professional engineer who is responsible for the wall design.



Foundation soil as specified by engineer (compact to min. of 95% max. dry density)

ROCKTON CURVED WALL



The taper side of Rockton blocks allow for construction of a wide range of curves in both retaining and freestanding walls.

1. Minimum radius curves (shown above) can be constructed without saw-cutting a significant number of blocks. Larger radius curves can be created by leaving a larger gap between blocks on the back side of the wall. The gaps must be filled with drainstone.
2. When retaining walls are constructed with batter, the radius on outside curves become smaller with each course due to the block setback. For proper construction, the radius of the bottom course must be larger than the minimum radius so upper courses will have sufficient room for construction.
3. When retaining walls are constructed with batter, the radius on inside curves becomes larger with each course due to the block setback.



Specifications per pallet	Half Size	Full Size
Length	114 mm (36 in)	1,829 mm (72 in)
Width	457 mm (18 in)	457 mm (18 in)
Thickness	610 mm (24 in)	610 mm (24 in)
Units/sq. ft.	4.5	9
Weight/pallet	1,322 lbs/600 kg	2,622 lbs/1,190 kg

Preliminary cross-sections available.

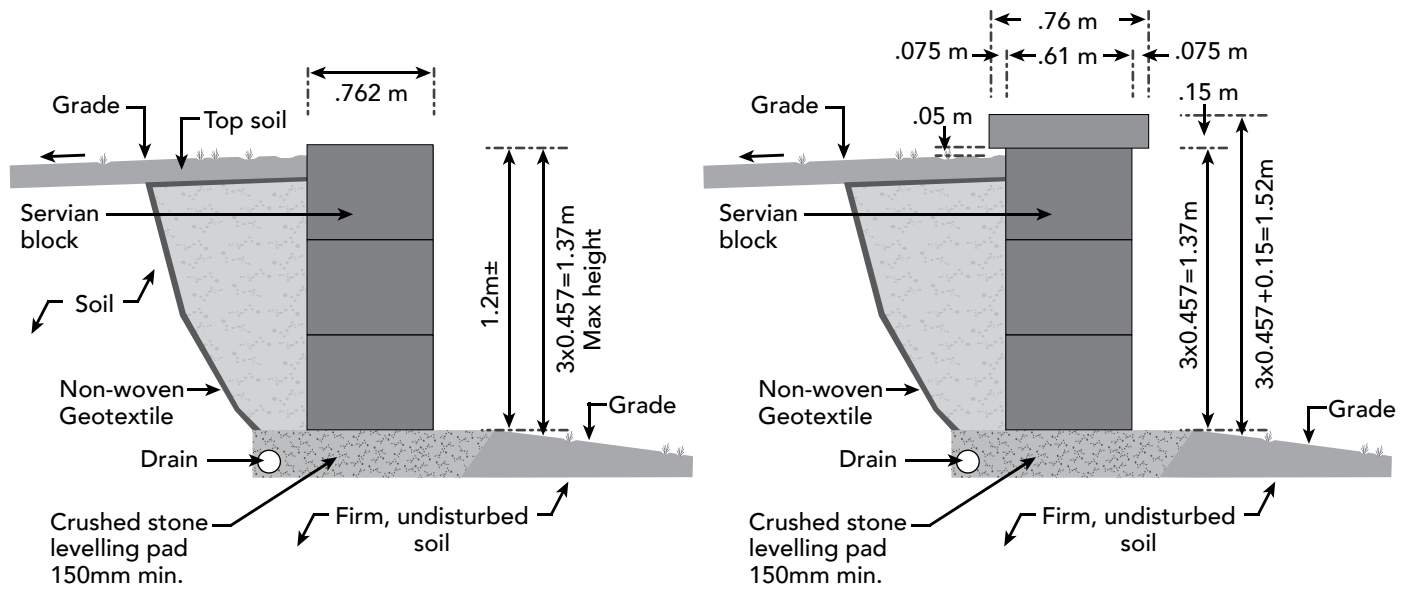
NORTHFACE COPING OPTIONS:

The 3' and 6' dimensional step can be used as a coping unit with the Northface wall.

STANDARD COLOURS

- Manitou

TYPICAL WALL CROSS-SECTION



NOTE: Northface wall can be designed to accommodate many varying heights. Please consult your local building department for more information.



BELVEDERE WALL



Wall pallet



Specifications per pallet	Block 1	Block 2	Block 3	Block 4	Block 5	Block 6
Length	152 mm (6 in)	200 mm (12 in)	457 mm (18 in)	152 mm (6 in)	305 mm (12 in)	457 mm (18 in)
Width	229 mm (9 in)	229 mm (9 in)	229 mm (9 in)	229 mm (9 in)	229 mm (9 in)	229 mm (9 in)
Height	76 mm (3 in)	76 mm (3 in)	152 mm (6 in)	152 mm (6 in)	152 mm (6 in)	152 mm (6 in)
Units/pallet	12	12	12	12	12	12
Weight/stone	±12 lbs/±5.4 kg	±23 lbs/±10 kg	±35 lbs/±15 kg	±23 lbs/±10 kg	±47 lbs/±21 kg	±70 lbs/±31 kg
Weight/pallet	±2,517 lbs/±1,142 kg					
Coverage/Sq. ft.	27 (retaining) 25 (frestanding)*					

*9 sq. ft. per two layers (one layer of 6" and one layer of 3")

The blocks are finished on both the front and back faces of the wall blocks and they are tapered on each side (approximately 1 in) from the front to the back of the block. Average block weights of the different texture patterns are shown. Weights of individual blocks may vary.

Corner pallet



Specifications per pallet	Block 1	Block 2
Length	381 mm (15 in)	381 mm (15 in)
Width	229 mm (9 in)	229 mm (9 in)
Height	76 mm (3 in)	152 mm (6 in)
Units/pallet	16	16
Weight/stone	±30 lbs/±13 kg	±61 lbs/±27 kg
Weight/pallet	±1,457 lbs/±661 kg	
Coverage/Sq. ft.	24*	

*12 sq. ft. per two layers (one layer of 6 in and one layer of 3 in)

These blocks are finished on three sides and the fourth side is tapered to fit with the other retaining wall blocks. The corner blocks can be used to construct columns, provide a finished end on a frestanding wall, and make 90° corners. 50% right, 50% left configuration.



Coping pallet



Specifications per pallet	Block 1	Block 2	Block 3	Block 4	Block 5	Column Cap
Length	152 mm (6 in)	200 mm (12 in)	457 mm (18 in)	457 mm (18 in)	457 mm (18 in)	686 mm (27 in)
Width	260 mm (10.25 in)	260 mm (10.25 in)	260 mm (10.25 in)	260 mm (10.25 in)	260 mm (10.25 in)	686 mm (27 in)
Height	57.2 mm (2.25 in)	57.2 mm (2.25 in)	57.2 mm (2.25 in)	57.2 mm (2.25 in)	57.2 mm (2.25 in)	57.2 mm (2.25 in)
Units/pallet	24	24	12	6	6	10
Weight/stone	±12 lbs ±5.4 kg	±24 lbs ±10 kg	±37 lbs ±16 kg	±37 lbs ±16 kg	±37 lbs ±16 kg	±154 lbs ±68 kg
Weight/pallet	±1,608 lbs/±729 kg					
Coverage/Sq. ft.	66					

Blocks are provided in five basic sizes. There are three standard coping blocks which are finished on the front, back, and top faces. The standard coping blocks are tapered approximately 1 in. on each side from the front to the back of the block. There are also two end units which are finished on the front, back, top, and one of the sides. The other side is tapered (approximately 1 in) from the front to the back of the block. The end units are useful for constructing corners and ends. Dimensional Coping is also an option for capping the Belvedere wall. Average block weights of the different face/texture patterns are shown. Weights of individual blocks may vary.

STANDARD COLOURS

- Manitou
- Windsor



BELVEDERE INSTRUCTIONS

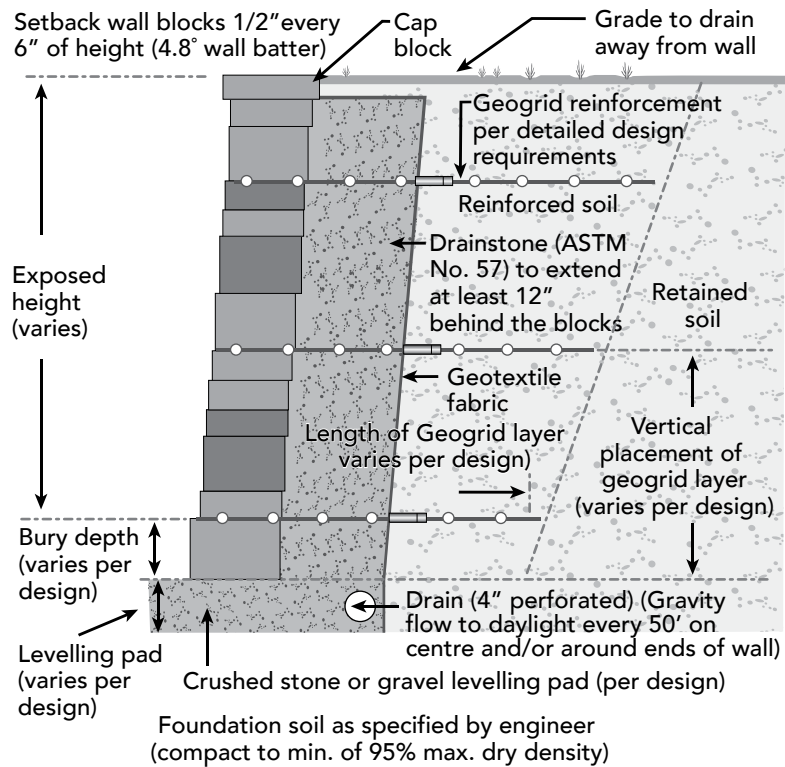
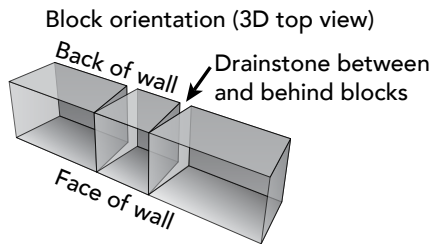
RETAINING AND FREESTANDING



TYPICAL RETAINING WALL

This page shows typical construction details for Belvedere retaining walls. These drawings are representative of major components required in wall construction. Specific details, including geotextile reinforcement layers, drainage details, soil requirements, etc., shall be per engineered design for wall.

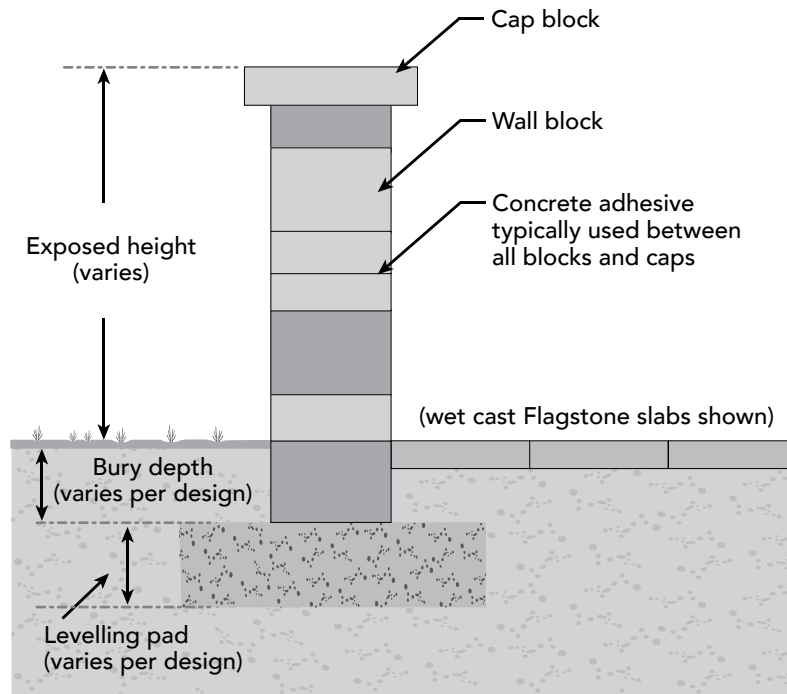
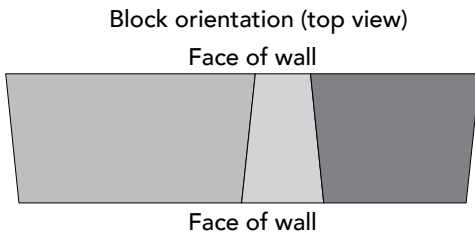
Final design for construction must be prepared by a registered professional engineer using the actual conditions of the proposed site that must address both internal and external drainage and shall be evaluated by the engineer who is responsible for the wall design.



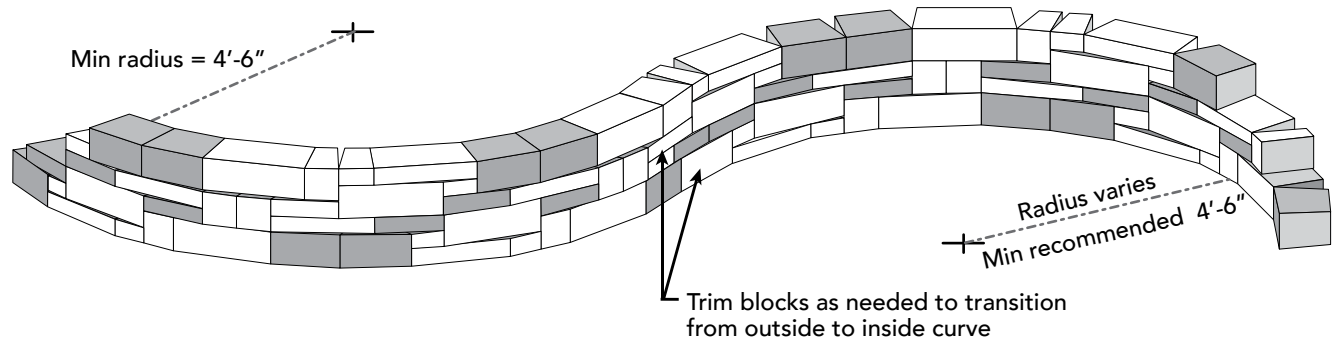
TYPICAL FREESTANDING WALL

Belvedere freestanding walls are intended to be low walls (24" or lower) used in a garden or patio setting. Taller walls — i.e. walls intended to act as railing or barriers, walls constructed in other settings, or walls subject to applied loads — will require project-specific engineering.

Final design for construction of walls subject to any loading must be prepared by a registered professional engineer.



NOTE: Drawings are for reference only. Block size and placement shown for reference only. Individual Belvedere blocks will vary with installation pattern.

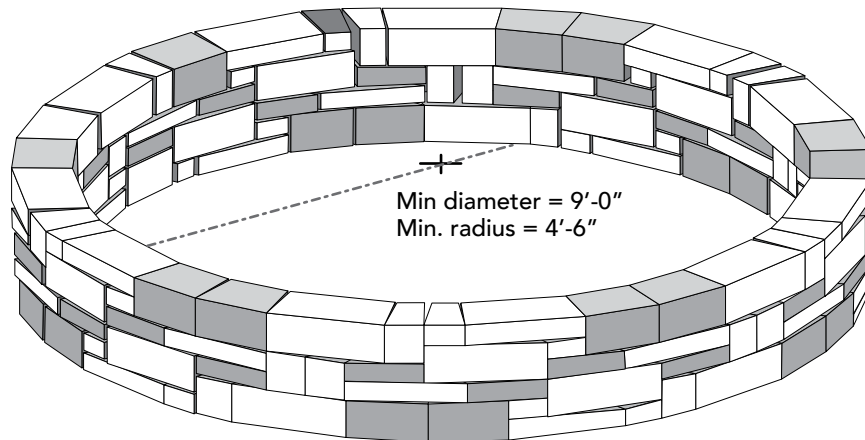


OUTSIDE CURVE

INSIDE CURVE

1. These details show curved retaining walls.
2. Minimum radius curves are shown which can be constructed without saw cutting a significant number of blocks. Larger radius curves can be created by leaving a larger gap between blocks on the backside of the wall. The gaps must be filled with drainstone.
3. When retaining walls are constructed with batter, the radius on the outside curves becomes smaller with each course due to the block setback. For proper construction, the radius of the bottom course must be larger than the minimum radius so that upper courses will have sufficient room for construction.
4. When retaining walls are constructed with a batter, the radius on the inside curves becomes larger with each course due to the block setback.

CURVED FREESTANDING WALL



PLANTER/TREE RING

Curved freestanding walls can also be built. Typically, the blocks have to be field-adjusted to make the desired curve. Front and back faces will alternate and blocks are trimmed as needed to provide a tight fit between blocks with no gaps on either side of the freestanding wall.

NOTE: Walls are shown without batter for clarity. Blocks in a retaining wall should be adjusted slightly in place and trimmed as needed to allow wall construction with a proper batter.



BELVEDERE INSTRUCTIONS

PILLARS

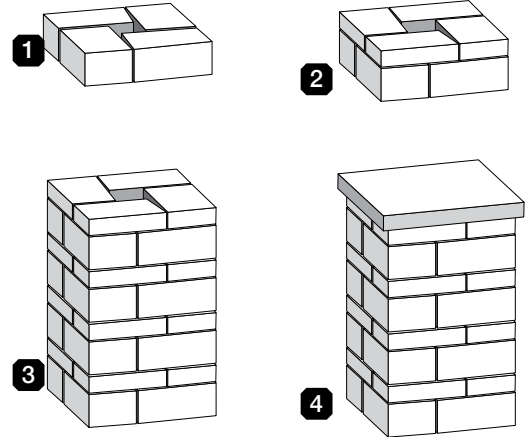


This page shows typical construction details for Belvedere pillars. Pillars make nice ends to Freestanding walls, formal stair openings, stand-alone monuments, and other areas to enhance your Belvedere project.

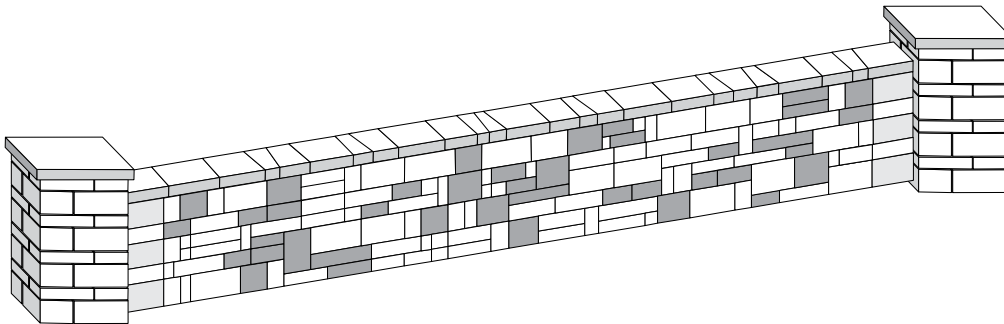
BASIC CONSTRUCTION STEPS

The basic steps of pillar construction are shown here. Feel free to expand on these ideas and bring your own creativity into creating a custom project.

1. Place four (4) 3" or 6" high corner blocks with the taper facing into the centre of the pillar.
2. Place the second row of four (4) of the corner blocks with the taper facing into the center of the pillar. Typically, if the first row is built with 6" corner blocks, the second row is built with 3" corner blocks.
3. Continuous with subsequent rows to the desired pillar height. One pallet of corner blocks will make a 24" x 24" x 36" high column.
4. Place a column cap to finish the pillar. The column cap can be cored as needed for installation of a light.



This example shows a freestanding wall with pillars on each end. The wall can either be constructed flush with the pillars, or blocks trimmed to interlock the end of the wall with the pillar.

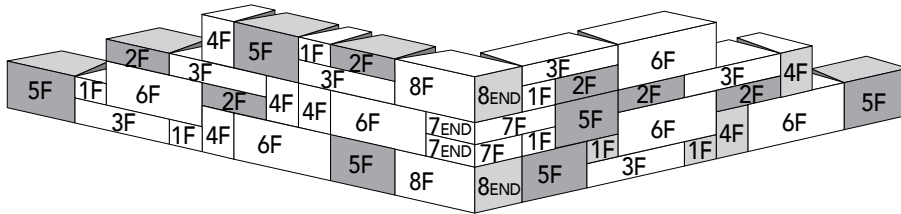


NOTE: Walls are shown without batter for clarity. Blocks in a retaining wall should be adjusted slightly in place and trimmed as needed to allow wall construction with proper batter.

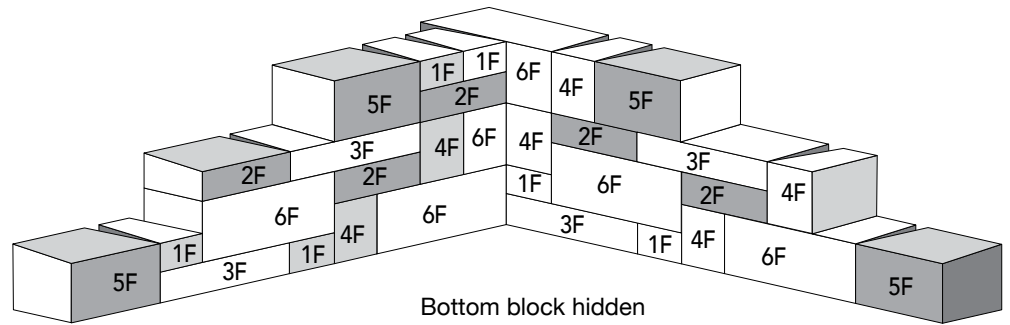


CORNER CONSTRUCTION DETAILS

Some basic concepts are shown here. Plan to take some time to properly work corners into the larger retaining and freestanding wall patterns.

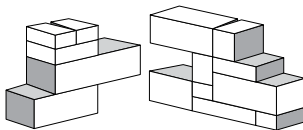


OUTSIDE CORNER



Bottom block hidden
(see interlocking corner)

INSIDE CORNER



INTERLOCKING CORNER

Place block in an overlapping, interlocking pattern at corner for added wall stability

NOTE: Walls are shown without batter for clarity. Blocks in a retaining wall should be adjusted slightly in place and trimmed as needed to allow wall construction with proper batter.



DIMENSIONAL WALL

RETAINING AND FREESTANDING



Straight pallet

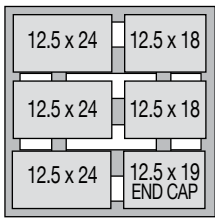


Specifications per pallet	Block 1
Length	305 mm (12 in)
Width	203 mm (8 in)
Height	25 mm (4 in)
Weight/stone	28 lbs/12.5 kg
Units/pallet	75
Coverage/sq. ft.	25 (retaining) 25 (freestanding)
Weight/pallet	±2,223 lbs/±1,009 kg

STANDARD COLOURS

- Manitou
- Windsor

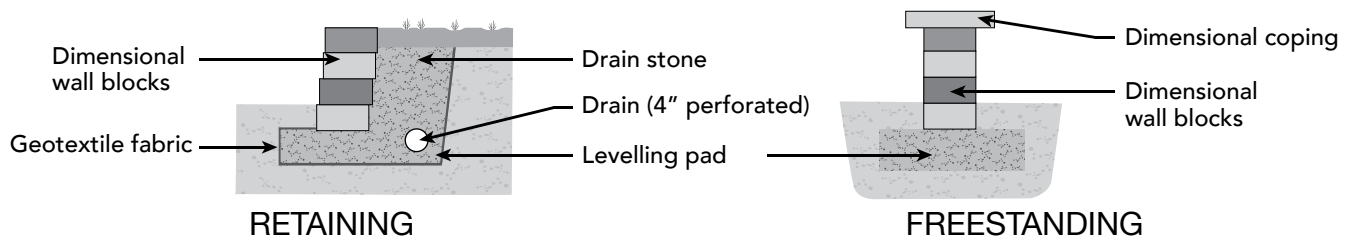
Coping pallet



Specifications per pallet	Block 1	Block 2	Coping End
Length	610 mm (24 in)	457 mm (18 in)	483 mm (19 in)
Width	318 mm (12.5 in)	318 mm (12.5 in)	318 mm (12.5 in)
Height	64 mm (2.5 in)	64 mm (2.5 in)	64 mm (2.5 in)
Weight/stone	63 lbs/28.5 kg	47 lbs/21 kg	49 lbs/22 kg
Units/pallet	18	12	6
Coverage/sq. ft.	6 layers/pallet; 63 linear ft./pallet*		
Weight/pallet	±1,736 lbs/±788 kg		

*Pallet = 10.5 linear ft. per 1 layer

DIMENSIONAL RETAINING AND FREESTANDING WALL





Specifications per pallet	Block 1
Length	300 mm (11.81 in)
Width	200 mm (7.87 in)
Thickness	100 mm (3.92 in)
Units/pallet	96
Units/layer	16 (4 layers)
Sq. ft./layer	7.75/5.17
Sq. ft./pallet	31/20.67
Lineal coverage	94.5 ft./63 ft. (per section: 23.6 ft/15.75 ft.)
Weight/pallet	2,861 lbs/1,298 kg

STANDARD COLOURS

- Beige Mix
- Grey Mix
- Ultra Black



WEDGESTONE™

WALLS | EDGING | FLOWER BEDS



Specifications per pallet	Block 1
Length	225 mm (8.85 in)*
Width	200 mm (7.87 in)
Thickness	100 mm (3.92 in)
Units/pallet	150
Sq. ft./unit	4.1-5
Sq. ft./pallet	30-36.5
Ln. ft./pallet	94
Resulting batter	0°
Max. exposed wall height	400 mm (15.75 in)
Mx. total course	4 exposed, 1 buried
Weight/pallet	2,721 lbs/1,235 kg

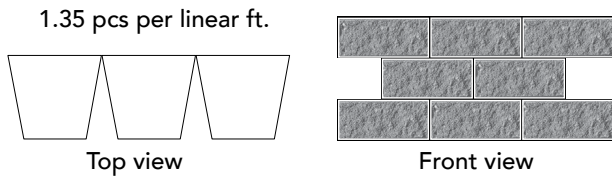
STANDARD COLOURS

- Blackwood
- Driftwood
- Granite
- Nipissing
- Timberwood

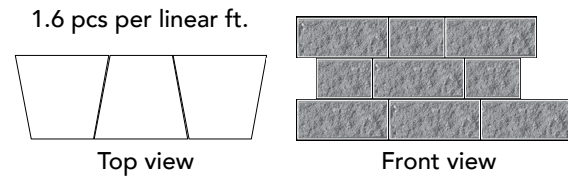
*Length tapered to 150 mm (5.9 in)

FACE VIEW OPTIONS

There are two options. depending on how the stones are placed.



METHOD A — UNIFORM

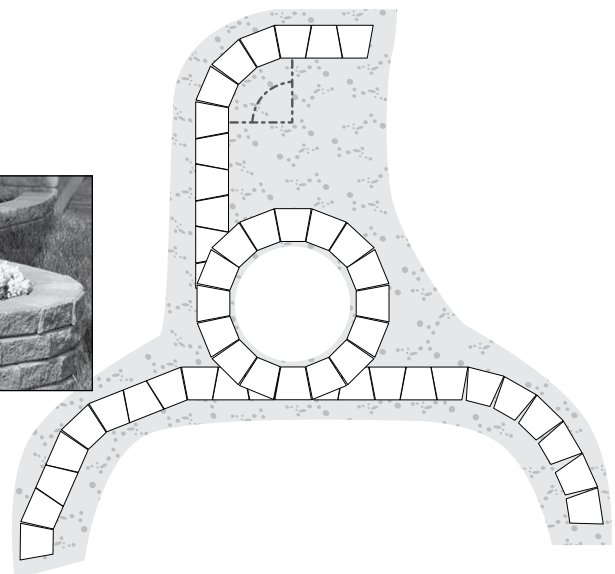


METHOD B — ALTERNATING FACES

CURVED WALL INSTALLATION

Curved or half-round steps can be created using Wedgestone. However, it is recommended that these stones be glued together, that 1.5 courses be buried, and that geogrid be incorporated, to prevent any movement.

- Four (4) pieces construct a 90° curved corner with an inside radius of 400 mm (16 in).
- Only 16 pieces are required to construct a full circle with an inside radius of 400 mm (16 in).
- Solid straight wall sections are achieved by simply reversing alternate pieces.
- Curves can be created by staggering stones (left side) or keeping a gap at the back of the pieces (right side). Alternately, pieces can be cut as required.



NOTE: All pieces have texture on both sides.



Specifications per pallet	Standard	Corner*	Coping 12"	Pillar Cap
Width	200 mm (7.87 in)	295 mm (7.59 in)	600 mm (23.6 in)	610 mm (24 in)
Height	150 mm (5.9 in)	150 mm (5.9 in)	75 mm (2.95 in)	618 mm (24 in)
Depth	295 mm (11.61 in)	193 mm (11.61 in)	300 mm (11.81 in)	75 mm (3 in)
Weight/pallet	2,455 lbs/1,114 kg	1,751 lbs/791 kg	1,754 lbs/796 kg	2,280 lbs/1,034 kg
Units/pallet	60	28	28	16
Sq. ft./pallet	19.3	22	13.5	
Stones/sq. ft.	3.1	1.27	2.07	
Stones/Ln. ft.	1.52	0.625	0.51	
Ln. ft./pallet	39.35	44.8	55.1	

*Sold in pairs

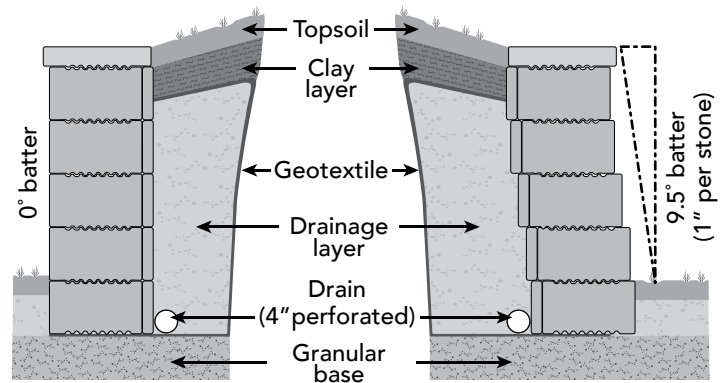
STANDARD COLOURS

- Blackwood
- Driftwood
- Granite
- Nipissing
- Timberwood

PARKWALL INSTALLATION DETAILS

- ❑ The maximum exposed (above grade) height for a gravity wall with a standard 9.5° batter is 975 mm (38.4 in). This includes a 75 mm (2.95 in) cap and six exposed courses, and requires one additional buried course. With geogrid, the maximum wall height is 3.375 m (11.1 ft).
- ❑ The maximum exposed (above grade) height for a gravity wall with no batter is 675 mm (26.6 in). This includes a 75 mm (2.95 in) cap and four exposed courses, and requires one additional buried course. With geogrid, the maximum vertical wall height is 2.175 m (7.1 ft). The minimum radius for curves is 2.4 m (8 ft).

RETAINING WALL FACING OPTIONS



NOTE: With the Parkwall system, both the split face and/or the smooth face can be used on the exposed side.



PARKWALL STEP INSTALLATION

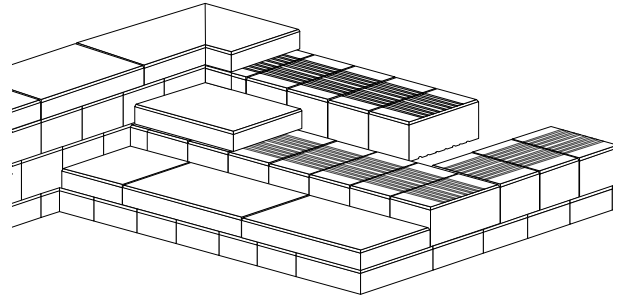
BUILDING STEPS



When constructing steps, Parkwall standard units are used for the risers and side walls, while 12 in cap stone are used for the treads. Standard units are recommended in lieu of backfill below risers.

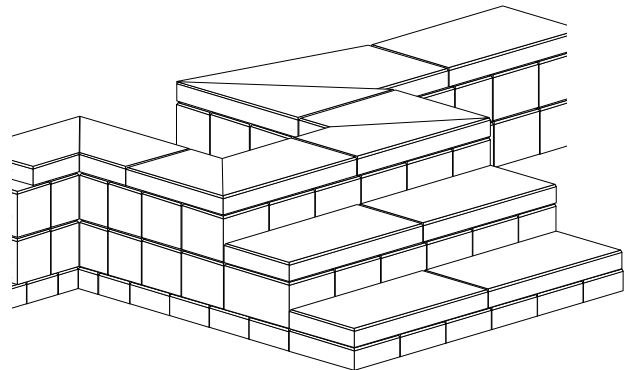
PERPENDICULAR STEPS

- ❑ This is simply a series of inside and outside covers, with the cross wall (riser) being stepped back 300 mm (12 in) per course.
- ❑ For each course, construct the inside and outside corners and then place the necessary units in between. Position the coping units and secure with adhesive.
- ❑ The next course is placed with the front face of the riser units touching the back of the coping stone on the lower step. Some trimming of the interlock ridges on the outside corner will be necessary.



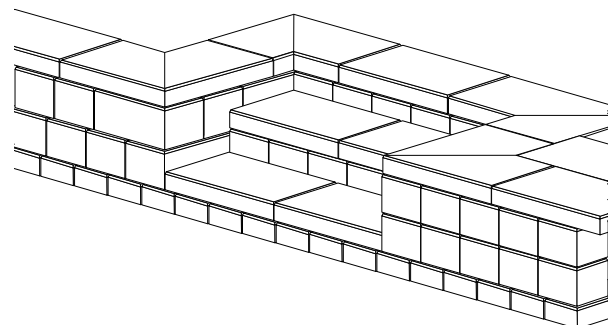
OUTSIDE STEPS

- ❑ First, assemble two (2) outside corners and two (2) inside covers for the bottom course. At the outside corners, chop part of the interlock ridges off the corner units and position/secure the coping. Fill in with aggregate or additional standard units.
- ❑ Place the next riser in contact with the back of the coping unit for the previous riser. Some chopping will again be necessary on the corner units. When constructing vertical sidewall steps against a setback retaining wall, remember to adjust the layout of the inside (back) corners to account for the difference in wall slopes.



INSET STEPS

- ❑ First, assembled into outside corners and sidewalls, with a distance of one riser length in between. For setback retaining walls, see previous instructions.
- ❑ Place the first riser and associated filler units on the same foundation elevation as the side walls. Position and secure coping.
- ❑ The next course is placed with the front face of the riser units touching the back of the coping stone on the lower step.



DIMENSIONAL STEPS

4 FT | 6 FT



Specifications per pallet	3' long	4' long	6' long
Length	914.4 mm (36 in)	1,219.2 mm (48 in)	1,828.8 mm (72 in)
Width	762 mm (30 in)	457.2 mm (18 in)	762 mm (30 in)
Thickness	177.8 mm (7 in)	177.8 mm (7 in)	177.8 mm (7 in)
Units/pallet	3	6	3
Weight/stone	±593 lbs/±268 kg	±496 lbs/±224 kg	±1,212 lbs/549 kg
Weight/pallet	±1,779 lbs/±807 kg	±2,977 lbs/±1,351 kg	±3,637 lbs/±1,650 kg

STANDARD COLOURS

- Fon Du Lac
- Manitou*
- Windsor

*Please note 3' step is only available in Manitou.







IRREGULAR STEPS

4 FT | 6 FT



IRREGULAR STEPS — 4 FT

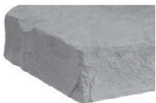
A 	Dimensions	mm	in	Unit/pallet	Weight/stone	Weight/pallet
	Length			2		
	Width					
	Thickness					
B 	Dimensions	mm	in	Unit/pallet	Weight/stone	
	Length			2	±737 lbs/±334 kg	
	Width	609.6 mm (24 in)				
	Thickness	177.8	7			
D 	Dimensions	mm	in	Unit/pallet	Weight/stone	
	Length	1,219.2	48	1	±698 lbs/±316 kg	
	Width	711.2	28			
	Thickness	177.8	7			
F 	Dimensions	mm	in	Unit/pallet	Weight/stone	
	Length	1,219.2	48	1	±628 lbs/±284 kg	
	Width	609.6	24			
	Thickness	177.8	7			

IRREGULAR STEPS — 6 FT

6 ft. Pallet



SNAPPED FACE

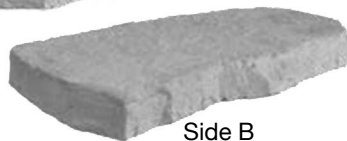


Dimensions	Length	Width	Thickness	Units/pallet	Weight/unit	Weight/pallet
Full Pallet	-	-	-	3*		±3,733 lbs/±1,693 kg
Unit 1	1,803 mm (72 in)	762 mm (30 in)	178 mm (7 in)		±1,244 lbs/±564 kg	
Unit 2	1,803 mm (72 in)	762 mm (30 in)	178 mm (7 in)		±1,244 lbs/±564 kg	
Unit 3	1,803 mm (72 in)	762 mm (30 in)	178 mm (7 in)		±1,244 lbs/±564 kg	

*Three (3) random assortment.

Unit 1

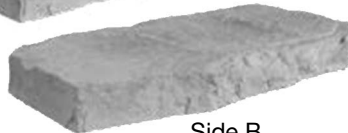
Side A



Side B

Unit 2

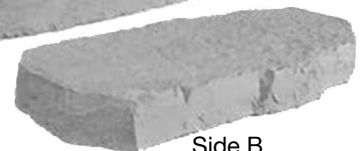
Side A



Side B

Unit 3

Side A



Side B

STANDARD COLOURS

- Manitou
- Windsor



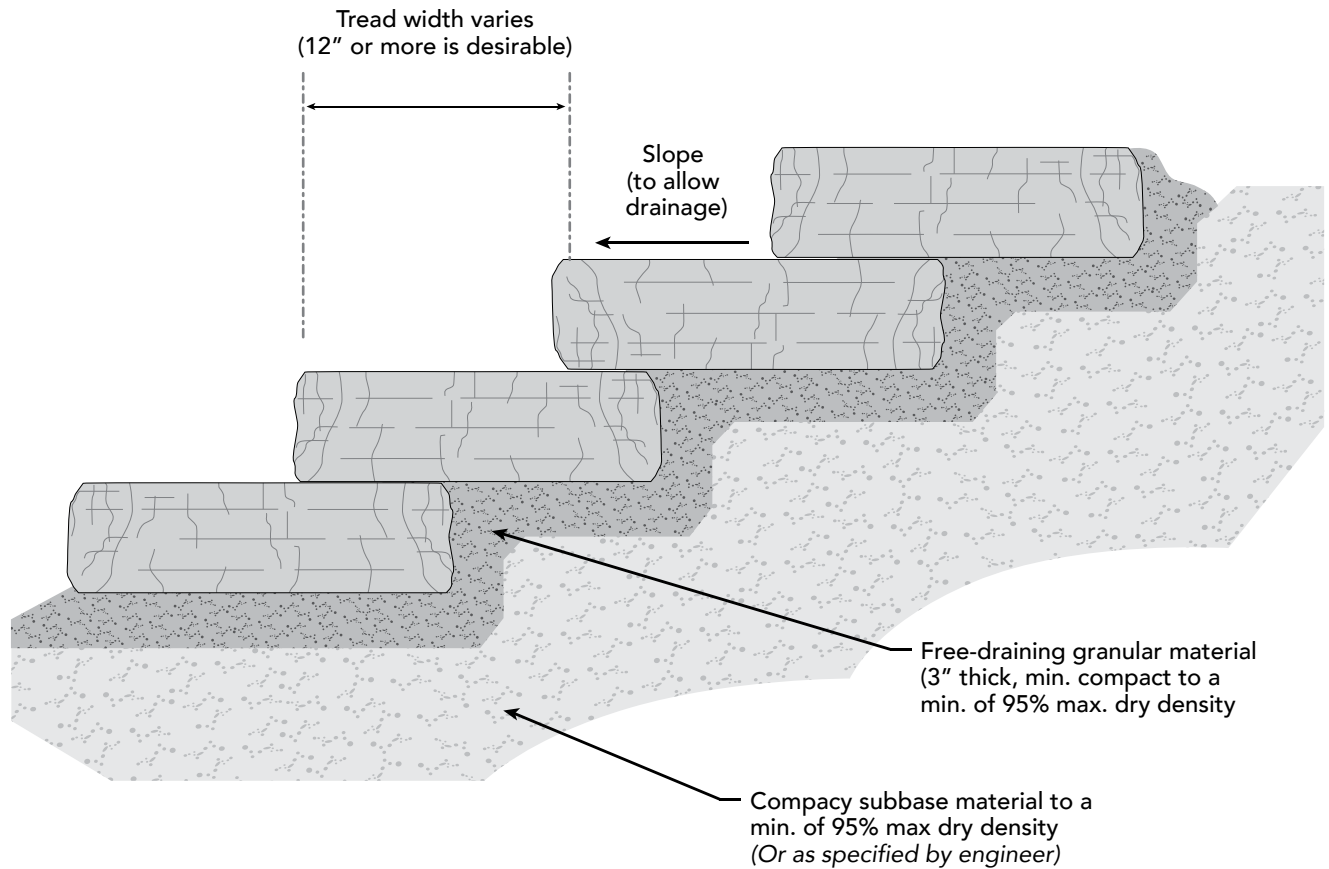
Generally, when the grade allows, a 12 inch or wider tread is desirable. To calculate the tread width, divide the total allowable horizontal run minus the width of the top step, by the number of steps minus one. The one less will account for the top step.

1. Excavate and grade the area for the first step. Steps should be placed on at least 3 inches of free draining soil, such as sand or pea-stone. Compact soil to a minimum of 95% standard proctor.
2. Place the first step with either forks or straps using a small excavator or skid-steer to lift the piece into place. Practice safe handling procedures during this process.
3. Fill behind each step with free draining soil and compact to 95% standard proctor. Remember to slope fill to allow for proper drainage when next step is placed. Continue placing steps in this manner until finish grade is reached.
4. Block size and placement shown are for reference only. Individual steps will vary with installation pattern.

EXAMPLE

Total rise	42"
Total horizontal run	96"
Width of top step	18"
Rise of steps	7"
Number of steps calculation	$42" \div 7"/\text{step} = 6 \text{ steps}$ $\text{Tread depth} = (96" - 18") \div (6-1)$ $= 15.6" \text{ tread depth}$

INSTALLATION CROSS-SECTION



NOTE: This drawing is for reference only.

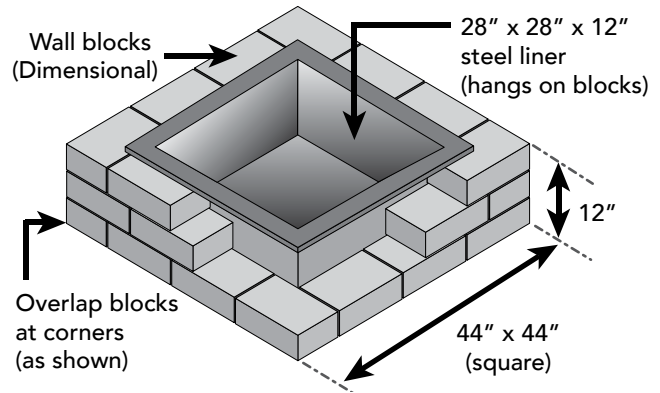


FIRE PIT KIT DIMENSIONAL



Specifications

Pallet weight	±973 lbs/442 kg
Measurements	1,118 x 1,118 x 305 mm (44 x 44 x 12 in)
Metal liner	711 x 711 x 305 mm (28 x 28 x 12 in)



STANDARD COLOURS

- Manitou
- Windsor

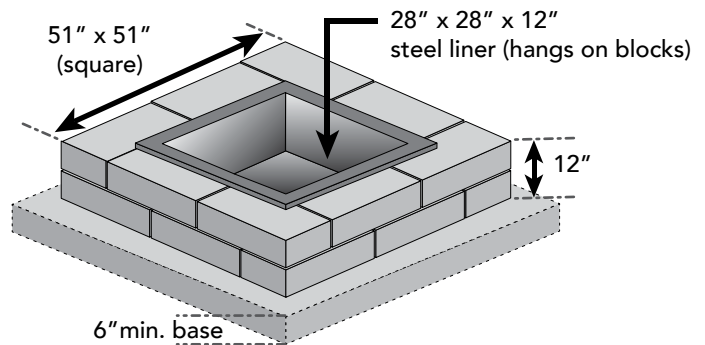


FIRE PIT KIT ROCKTON



Specifications

Pallet weight	±1,186 lbs/538 kg
Measurements	1,295 x 1,295 x 305 mm (51 x 51 x 12 in)
Metal liner	711 x 711 x 305 mm (28 x 28 x 12 in)



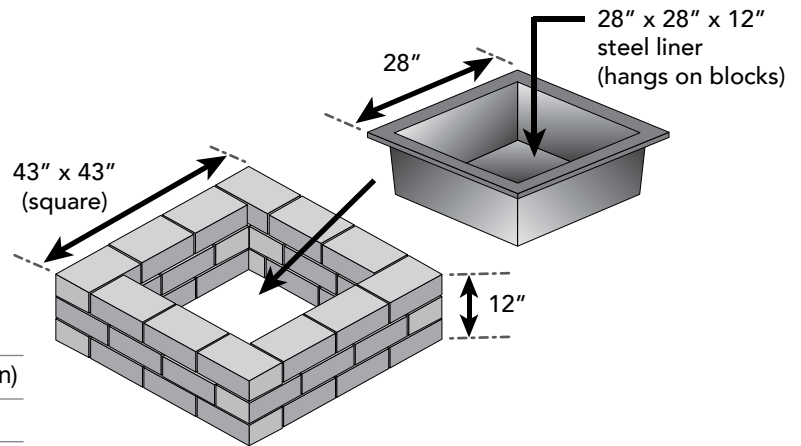
STANDARD COLOURS

- Fon Du Lac
- Manitou

NOTE: Fire pit metal insert may vary from images above. Not suitable for large fires. Fire size should not allow flame to contact caps on round fire pit. Gas conversion kits available.

FIRE PIT KIT

KENT II



Specifications

Pallet weight	1,105 lbs/502 kg
Measurements	1,092 x 1,092 x 305 mm (43 x 43 x 12 in)
Metal liner	711 x 711 x 305 mm (28 x 28 x 12 in)

STANDARD COLOURS

- Beige Mix
- Ultra Black
- Grey Mix

FIRE PIT KIT

OXFORD

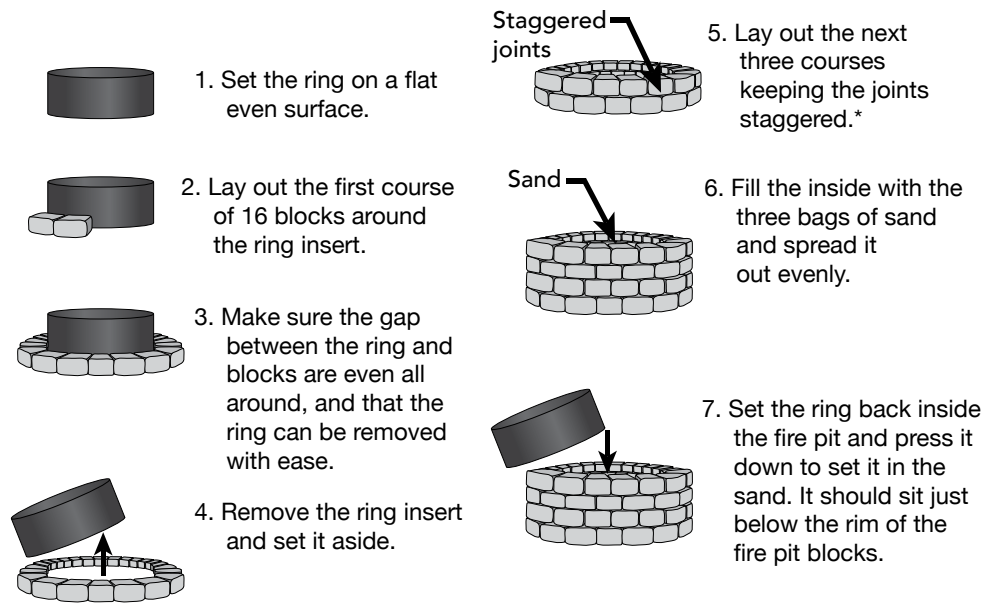


OXFORD PIT INSTALLATION INSTRUCTIONS



Specifications

Pallet weight	937 lbs/425 kg
Measurements	1,168 x 305 mm (46 x 12 in)
Metal liner	711 x 305 mm (28 x 12 in)



STANDARD COLOURS

- Blackwood
- Nipissing
- Driftwood
- Timberwood
- Granite

**Fire Resistant Masonry adhesive should be applied between layers, securing them in place permanently.*

NOTE: Fire pit metal insert may vary from images above. Not suitable for large fires. Fire size should not allow flame to contact caps on round fire pit. Gas conversion kits available.



FIRE PIT KIT

BELVEDERE

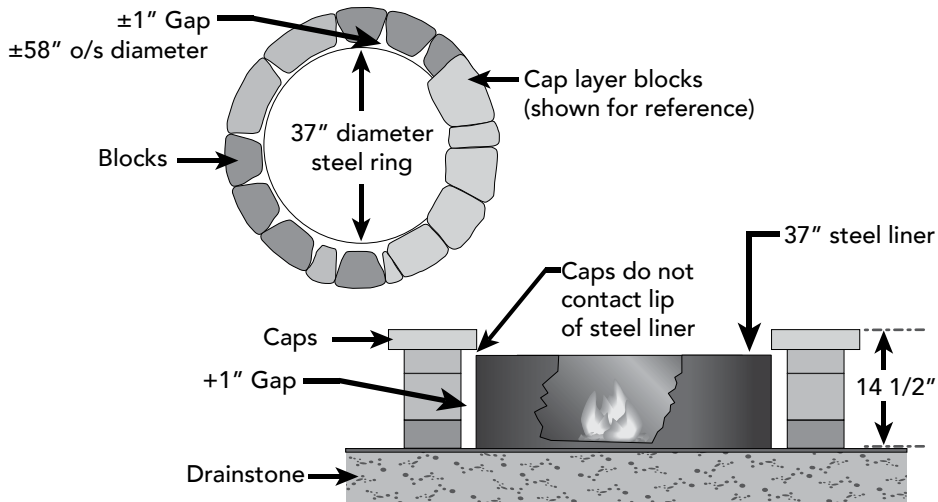


Specifications

Pallet weight	±1,254 lbs/569 kg
Measurements	1,448 x 368 mm (57 x 14 1/2 in)
Metal liner	940 x 368 mm (37 x 14 1/2 in)

STANDARD COLOURS

- Manitou
- Windsor

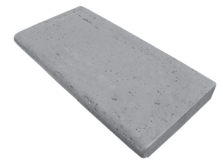
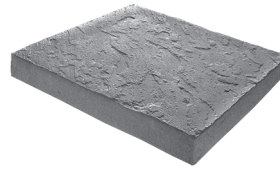


PATTERN BLOCK LAYOUT



17"x6" 11 1/2"x6" 6"x6" 17"x3" 11 1/2"x3" 6"x3" Cap

NOTE: Fire pit metal insert may vary from images above. Not suitable for large fires. Fire size should not allow flame to contact caps on round fire pit. Gas conversion kits available.



Specifications per pallet	Montana Cap	Montana Column Cap	Riviera Cap
Width	540 mm (21.3 in)	600 mm (23.6 in)	600 mm (23.6 in)
Depth	270 mm (10.6 in)	600 mm (23.6 in)	300 mm (11.8 in)
Height	50 mm (2 in)	75 mm (2.95 in)	60 mm (2.36 in)
Units/pallet	22	8	18
Ln. ft./pallet	38.9	-	35.4
Units/Ln. ft.	1.77	-	1.97
Weight/pallet	825 lbs/374 kg	1,096 lbs/496 kg	873 lbs/396 kg

STANDARD COLOURS

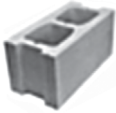









- Ebony












STANDARD CONCRETE BLOCKS

CUBE SIZES AND WEIGHTS



Specifications	10 cm (4 in)	15 cm (6 in)	20 cm (8 in)	25 cm (10 in)	30 cm (12 in)	
Stretcher 	Dimensions	90x190x390 mm	140x190x390 mm	190x190x390 mm	240x190x390 mm	290x190x390 mm
	Units/pallet	120	100	75	67	55
	Weight	3,120 lbs/1,415 kg	3,200 lbs/1,452 kg	3,000 lbs/1,361 kg	3,149 lbs/1,429 kg	3,025 lbs/1,373 kg
Solid 	Dimensions	90x190x390 mm	140x190x390 mm	190x190x390 mm	240x190x390 mm	290x190x390 mm
	Units/pallet	120	80	60	39	30
	Weight	4,320 lbs/1,960 kg	4,000 lbs/1,815 kg	4,200 lbs/1,905 kg	3,276 lbs/1,486 kg	3,150 lbs/1,429 kg
Semi-Solid 	Dimensions	-	140x190x390 mm	190x190x390 mm	240x190x390 mm	290x190x390 mm
	Units/pallet	-	100	75	65	50
	Weight	-	3,900 lbs/1,769 kg	3,750 lbs/1,701 kg	4,160 lbs/1,887 kg	3,600 lbs/1,633 kg
75% Solid 	Dimensions	90x190x390 mm	140x190x390 mm	190x190x390 mm	240x190x390 mm	290x190x390 mm
	Units/pallet	120	100	75	52	45
	Weight	4,320 lbs/1,960 kg	4,200 lbs/1,905 kg	4,200 lbs/1,905 kg	3,640 lbs/1,651 kg	3,330 lbs/1,511 kg
60% Solid  (2 hr fire rating)	Dimensions	-	-	190x190x390 mm	-	-
	Units/pallet	-	-	75	-	-
	Weight	-	-	3,375 lbs/1,531 kg	-	-
Pier 	Dimensions	-	-	190x190x390 mm	240x190x390 mm	290x190x390 mm
	Units/pallet	-	-	75	67	55
	Weight	-	-	3,375 lbs/1,531 kg	3,685 lbs/1,672 kg	3,575 lbs/1,622 kg
Half 	Dimensions	90x190x190 mm	140x190x190 mm	190x190x190 mm	240x190x390 mm	290x190x190 mm
	Units/pallet	240	200	150	130	100
	Weight	3,120 lbs/1,415 kg	3,200 lbs/1,452 kg	3,300 lbs/1,497 kg	3,640 lbs/1,652 kg	3,500 lbs/1,588 kg
Ashlar 	Dimensions	90x90x390 mm	140x10x390 mm	190x90x390 mm	240x90x390 mm	290x90x390 mm
	Units/pallet	240	200	150	130	100
	Weight	3,120 lbs/1,415 kg	3,200 lbs/1,452 kg	2,850 lbs/1,293 kg	2,990 lbs/1,357 kg	2,600 lbs/1,180 kg
Single/Double Bullnose 	Dimensions	90x190x390 mm	140x190x390 mm	190x190x390 mm	240x190x390 mm	290x190x390 mm
	Units/pallet	120	100	75	67	55
	Weight	3,120 lbs/1,415 kg	3,200 lbs/1,452 kg	3,000 lbs/1,361 kg	3,149 lbs/1,429 kg	3,025 lbs/1,373 kg
Half Single/Double Bullnose 	Dimensions	90x190x390 mm	140x190x390 mm	190x190x390 mm	240x190x390 mm	290x190x390 mm
	Units/pallet	240	200	150	130	100
	Weight	3,120 lbs/1,415 kg	3,200 lbs/1,452 kg	2,850 lbs/1,293 kg	2,990 lbs/1,357 kg	3,025 lbs/1,373 kg



	Specifications	10 cm (4 in)	15 cm (6 in)	20 cm (8 in)	25 cm (10 in)	30 cm (12 in)
Bondbeam 	Dimensions	-	140x190x390 mm	190x190x390 mm	240x190x390 mm	290x190x390 mm
	Units/pallet		100	75	65	50
	Weight		3,400 lbs/1,543 kg	3,150 lbs/1,429 kg	3,250 lbs/1,475 kg	3,150 lbs/1,429 kg
Knock-out 	Dimensions	-	140x190x390 mm	190x190x390 mm	240x190x390 mm	290x190x390 mm
	Units/pallet		100	75	65	50
	Weight		3,100 lbs/1,407 kg	2,775 lbs/1,259 kg	3,250 lbs/1,475 kg	3,150 lbs/1,429 kg
Rebar Knock-out 	Dimensions	-	-	190x190x390 mm	-	-
	Units/pallet			75		
	Weight			2,775 lbs/1,259 kg		
Return Corner 	Dimensions	90x190x390 mm*	140x190x390 mm*	-	240x190x390 mm	290x190x390 mm
	Units/pallet	96	85		65	60
	Weight	3,936 lbs/1,786 kg	3,910 lbs/1,774 kg		3,185 lbs/1,445 kg	3,420 lbs/1,552 kg
Bullnose L-Corner 	Dimensions	90x190x390 mm	140x190x390 mm	-	-	-
	Units/pallet	96	85			
	Weight	3,936 lbs/1,786 kg	3,910 lbs/1,774 kg			
5 cm Solids 	Dimensions	90x190x390 mm	-	-	-	-
	Units/pallet	240				
	Weight	3,840 lbs/1,742 kg				
Quad Bullnose  (30 cm x 30 cm)	Dimensions	40x190x390 mm	-	-	-	-
	Units/pallet	60				
	Weight	2,700 lbs/1,225 kg				
7.5 cm Solid 	Dimensions	65x190x390 mm	-	-	-	-
	Units/pallet	180				
	Weight	4,320 lbs/1,960 kg				
Back Up Brick 	Dimensions	90x60x190 mm	-	-	-	-
	Units/pallet	600				
	Weight	3,060 lbs/1,388 kg				

*And 190 mm

NOTE: Weight per pallet does not include pallet weight of 50 lbs each.



PAVER INSTALLATION

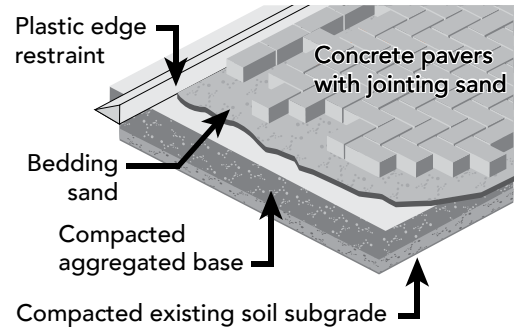


PLANNING

1. Outline the proposed area of construction and then park vehicles (for driveways) or place furniture (for patios) in the area to ensure that the final design is adequately sized.
2. Once everything looks fine, transfer the information on paper.

EXCAVATION AND BASE PREPARATION

1. The depth of excavation will depend upon the project and soil conditions; a driveway excavation is typically 400-600 mm (16-24 in) in depth, while a walkway or patio excavation is normally 200-250 mm (8-10 in).
2. To provide a secure base in which to install the edge restraint, the area of excavation needs to be larger than the area being paved; the rule of thumb is to extend the excavation outwards in all directions equal to the total depth of the excavation.
3. Prior to starting the work, place stakes at each end of the job and run string lines between them to represent the desired final grade; ensure a minimum slope of 1 mm per 100 mm (1/8 in per 12 in) for proper drainage away from your home. While excavating, use a measuring tape to verify depths of the string lines. When excavating is completed, remove any debris and then compact the native material with a minimum 7,000 lbf tamper.
4. Spread the backfill material in loose layers of no greater than 150 mm (6 in), wet the material with water (helps increase in compaction) and compact into place. Continue this process until within 85 mm (3 1/3 in) of final proposed grade. Run a 3 mm long straight edge over the compacted area to detect any high/low spots.



EDGE RESTRAINTS

1. Lay a row of pavers from one side of the area to the other and then position your curbs accordingly to avoid unnecessary cuts. For concrete curbs, dig a trench to the required depth (subject to final placement level of curb), place the curbs and then backfill to original base grade. For plastic edging, the sections are positioned directly on top of the base and then staked into place using 250 mm (10 in) spikes.

BEDDING SAND

1. The key is to ensure a consistent thickness for the loose sand. The easiest way to do this is to use 25 mm (1 in) diameter Schedule 80 PVC pipe for guard rails (the outside diameter is 35 mm). Spread the sand loosely between a pair of pipes, then pull a straightedge along the top to level sand out. Avoid disturbing the sand once in place.

LAYING THE PAVERS

1. The laying pattern used is subject to personal preference; however, herringbone patterns are recommended for traffic areas. Place chalk lines on the sand at 2 m (6 ft) intervals to provide straight line guides during installation. Always start laying at the lowest point so that stones cannot separate; place hand tight. Use a rubber mallet as required to adjust stones. While laying, mix pavers from at least four different cubes at a time so that any colour variations between cubes are blended in.
2. Cut pavers to fill gaps along edges and around obstacles as required using cantilever splitters or masonry saws. For curves, place pavers beyond the final edge, mark off the desired curve, and then using a masonry saw cut the pavers in place. Ensure that area is washed down after cutting as the residue can create stains.

COMPACTING AND FINISHING

1. After all pavers are in position (or at the end of each day), sweep off the surface completely and then compact the pavers into the bedding sand using a 5,000 lbf plate tamper.
2. Spread dry jointing sand and sweep into joints until full. Clean off surface and vibrate the jointing sand into spaces using the tamper. Repeat until joints are completely full.

NOTE: For more advanced installation details, scan the QR code above or go to www.brownsconcrete.com/resources.



PLANNING

1. The height and purpose of the wall, as well as the existing soil types, groundwater conditions, and surrounding land uses, all play a part in the design of a retaining wall. That is why we recommend that you consult with your local supplier to verify which wall system will work for your given project.
2. Remember to incorporate a drainage system into your design so that water does not become trapped behind your wall.

EXCAVATION AND BASE PREPARATION

1. Mark off the front and back of the wall, and then the front and back of the excavation; off-set at the front of the wall is typically 100-150 mm (4-6 in) while the offset at the back of the wall is 150 mm (6 in) for low walls (<27 in) and 300 mm (12 in) for higher walls.
2. Where the excavation is cutting into a slope, grade the back of the excavation at the angle at which the native soil can be safely left without collapsing. To prevent the wall from sliding forward, it is common practice to bury at a minimum one full course of wall stones. The depth of the excavation also needs to allow for a 150 mm (6 in) thick layer of base material.
3. Once the excavation is completed, remove any debris and then thoroughly compact the native soil. Spread the backfill material in loose layers of no greater than 75 mm (3 in), wet the soil with water (helps increase compaction) and compact into place. Leave a V-notch at the back of the excavation for the drain pipe. Set the string level to verify the final grade. Ensure the base is level front to back and side to side as this will minimize the leveling of individual blocks and will ensure straight lines and smooth arcs.
4. Lay the geotextile starting directly under the back of the wall and up the back slope of the trench.
5. Remember to leave adequate material at the top of the slope for the fold back, and to overlap the separate pieces a minimum of 150 mm (6 in). Use the sand bags or similar to keep the geotextile in place as required.

LAYING THE BASE COURSE

1. Select the starting point for the wall. If the base of the wall is stepped up, start at the lowest point and work up; remember to adjust for the natural batter in the wall between steps. If there is an outside corner, start with the corner unit (to potentially avoid having to cut stones later on to fit). Set a string level to mark the back of the first course. Use a level to ensure the blocks are level front to back and side to side.

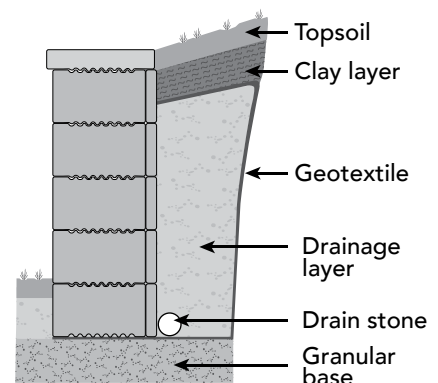
REMAINING COURSES

1. Sweep the top course prior to proceeding. Place the next course of units in a running bond pattern so that the middle of the unit is approximately above the joint between the underlying blocks. **NEVER ALIGN BLOCKS VERTICALLY.**
2. After laying a course, backfill behind wall to the same elevation as the top of the just placed units.

COPING AND GRADING

1. Where coping is required, sweep the top of the underlying course prior to proceeding.
2. Place a line of landscape adhesive on both sides of the tongue. Place the coping unit on top and apply some pressure to secure. Prior to back-filling behind the coping and last wall unit, pull filter cloth towards back of wall and tuck in place.
3. Fill to final grade to suit desired conditions; ensure final slopes allow for proper drainage away from the wall.

CROSS-SECTION

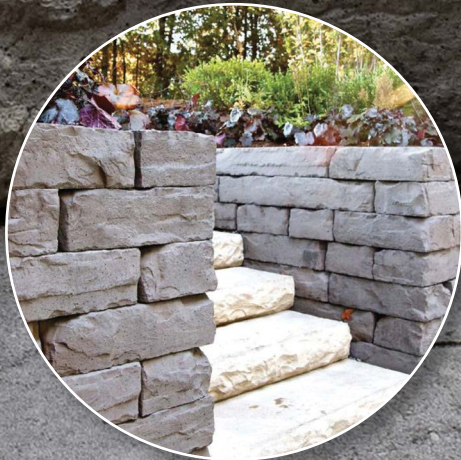
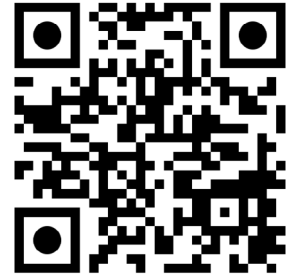


NOTE: For more advanced installation details, scan the QR code above or go to www.brownsconcrete.com/resources.



BROWN'S LIFETIME WARRANTY

Brown's Concrete Products Ltd. provides a Lifetime Warranty to the original purchaser on the structural integrity of its products when applied in residential applications. Please refer to Brown's Concrete website for complete warranty information.





AUTHORIZED DEALER:

Brown's
CONCRETE PRODUCTS

3075 HEROLD DRIVE, SUDBURY, ON, P3E 6K9

Phone: 705-522-8220

Toll Free: 800-461-4888

Fax: 705-522-2732

info@brownsconcrete.com

www.brownsconcrete.com



Canadian Home Builders' Association



CONCRETE MASONRY & HARDSCAPES ASSOCIATION

