



BELGARD®

RESOURCE GUIDE

WHY BELGARD®?

Our purpose is to make outside your kind of beautiful. This goes beyond turning creativity and craftsmanship into lasting outdoor spaces. It means bringing your vision to life, together. Because with Belgard, you get more than just beautiful products, you get a partner to help you every step of the way.

INSPIRATION. Ignite your creativity with our online visualizer tool—designed to help you explore and experiment with different styles and design principles.

Visit: Belgard.com/Seeit

EXPERTISE. Our network of Belgard Authorized Contractors are ICPI* trained and must pass specific Belgard requirements to deliver superior craftsmanship, ensuring your outdoor space features only the most contemporary work.

*Interlocking Concrete Pavement Institute

Find a contractor: Belgard.com/Locator

PEACE OF MIND. Not only do we stand behind our products with a lifetime limited warranty, but Belgard is also the only hardscapes company backed by the Good Housekeeping Seal for quality and assurance.

Visit: Belgard.com/GHseal and Belgard.com/Warranty

FLEXIBILITY. We offer same-as-cash financing options and payment plans to help you realize your vision on your budget. Belgard Preferred Payment is available through select Belgard Authorized Contractors and Dealers.

Visit: Belgard.com/BPP



ABOUT US


At Belgard®, our uncompromising quality and craftsmanship sets the standard for hardscapes, landscape design and innovation. Our products combine weather-resistant beauty and long-lasting durability to create captivating outdoor spaces that last for decades with minimal maintenance. And our remarkably natural look and feel is unrivaled in the industry.


Since 1995, our locally made and nationally backed products have transformed thousands of residential and commercial properties across North America. With more shapes, styles and textures than any other brand, Belgard's Outdoor Living paving and wall products aren't just functional, they infuse outdoor spaces with distinctive atmosphere and style.


Every day, our network of Belgard Authorized Dealers and Contractors helps customers realize their outdoor dreams. And every year, we strive to improve our product and service offerings by dedicating more than 20,000 hours to research and development. By staying ahead of design trends, we are able to provide design-forward products that homeowners envision for their backyard spaces.


All of our outdoor products—when installed by a Belgard Authorized Contractor—are covered by a transferable lifetime limited warranty. That's just part of our commitment to lasting outdoor beauty.

Stay connected with Belgard® for design inspiration, entertaining ideas, contests, recipes and more.

 Belgard.com/Enews

 Facebook.com/BelgardHardscapes

 YouTube.com/BelgardHardscapes

 Belgard.com/Blog

 Pinterest.com/Belgard

 Twitter.com/Belgard

PEACE OF MIND, GUARANTEED

Lifetime Transferable Limited Warranty

Oldcastle Architectural, Inc. ("Belgard") is proud to inform you that all of our interlocking concrete paver and retaining walls ("Products") meet and/or exceed the requirements of ASTM C-936 and ASTM C-1372. Belgard guarantees its Products against these standards for the lifetime of the Product defined by ICPI. This guarantee does not apply to splitting, chipping or other breakage that could be caused by impact, abrasion or overloading. This warranty is transferable. *The original proof of purchase is required.*

This warranty is only valid if the material is installed under the guidelines of the ICPI (www.ICPI.org), The NCMA (www.ncma.org) or the Belgard Installation Guideline Manual. Improper installation voids this warranty. This warranty is for residential applications only and does not apply to commercial applications. It is recommended that the job is installed by a Belgard Authorized Contractor who guarantees their workmanship for a minimum of 2 years from the date of install.

For warranty service, contact Belgard at **1-800-BELGARD**. A service representative will investigate your claim within 10 business days. If the Belgard Product fails to meet the specifications, Belgard will replace the defective product at no charge. Color matching cannot be guaranteed. Belgard will not be responsible for any replacement labor, consequential damages or incidental damages. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE. SOME STATES DO NOT ALLOW FOR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

For more information, please visit us at:

Belgard.com/GHseal and Belgard.com/Warranty



TABLE *of* CONTENTS

EASY REFERENCE.....	06
---------------------	----

PAVERS

Cambridge Cobble®	12
Cambridge Cobble® 3-Piece	14
Cambridge Cobble® Circle	16
Cambridge Cobble® Paver Tile	18
Dublin Cobble®	20
Dublin Cobble® 3-Piece	22
Holland Paver Tile.....	24
Holland Stone	26
Lafitt™	28
Lafitt™ Grana Slab	30
Lafitt™ Rustic Slab.....	32
Mega-Arbel®	34
Mega-Arbel® Patio Slab	36
Mega-Bergerac®	38
Mega-Bergerac® Circle.....	40
Mega-Lafitt™	42
Mega Stone	44
Old World Paver™	46
Old York™ Paver	48
Universal Circle Antiqued.....	50
Urbana® Stone.....	52
Urbana® Paver Tile	54

PERMEABLE PAVERS

Aqua-Bric®	60
Aqualine®	62
Turfstone®.....	64

PORCELAIN PAVERS

Ardesie.....	70
Esprit	71
Quarziti 2.0	72
Stones 2.0	73
Sundeck	74
Unico	75

WALLS

Anchor Diamond® 9D.....	78
Anchor Diamond Pro®	80
Belair Wall®	92
Celtik® Retaining Wall.....	100
Celtik® Freestanding Wall.....	102
Keystone Century Wall®	106
Keystone Compac®	112
Keystone Country Manor®	114
Keystone Standard®	120
Keystone Stonegate®	122
Mega-Tandem™ Wall	124
Tandem® Wall.....	128
Tandem® Wall Column Kit	135
Tandem® Wall Modular Grid	140
Weston Stone® Universal.....	142
Weston Stone® 3-Piece.....	144
Weston Stone® Fire Pit Kit.....	146

COPING & EDGER

Anglia Edger®	150
Celtik® Curb	152
Eastwood Coping.....	154
Esplanade Cap	155
Fountainhead Coping.....	156
Granika™ Step	157
Landings™ Step.....	158
Seville Coping.....	160
Ustart Base Block.....	161

ELEMENTS™

Bristol Series	164
Brighton Series.....	168
Bordeaux Series	172
Belgard® Brick Oven	178
Belgard Elements	
Installation Instructions.....	180
Limited Warranty.....	183





EASY REFERENCE



BELGARD®



PREFERRED PAYMENT

Get started with Same-as-Cash financing available only through
Belgard Authorized & Participating Contractors.

3/6/12/18 MONTH PAYMENT OPTIONS

BENEFITS:

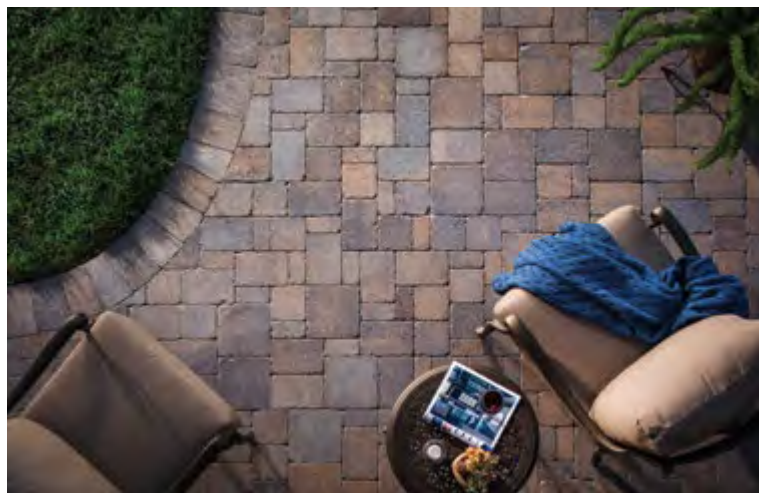
- No payments and no interest on approved credit
- 100% unsecured financing up to \$55,000 on approved credit*
- A quick, easy and safe toll-free loan-by-phone application process
- A fast credit decision in about 10 minutes
- No paperwork
- Peace of mind because you provide your personal financial information directly to the bank and not to your contractor or online
- No application fee, no closing costs and no prepayment penalties

Do you have questions? Are you ready to get started?

Go to Belgard.com/locator to find a participating contractor.

"We had originally planned to phase out our makeover plans over a couple of years. Belgard Preferred Payment allowed us to do all of the work at once without overextending our budget by spreading the cost out over time with zero interest."

*– Christi Simoneaux,
homeowner, regarding her
recent backyard makeover*



* EnerBank USA has helped tens of thousands of homeowners get the payment options they need to fulfill their home improvement and remodeling dreams. EnerBank USA is a wholly owned subsidiary of CMS Energy Corp., which is traded on the New York Stock Exchange under the symbol CMS. Loans provided by EnerBank USA (1245 E. Brickyard Rd., Suite 640, Salt Lake City, UT 84106) on approved credit, for a limited time. Repayment terms vary from 15 to 138 months. 16.72% fixed APR, effective as of June 1, 2014, is subject to change. Interest waived if repaid before loan due date.

Belgard Preferred Payment is only available in the United States

DESIGN STUDIO

Research has shown that 3D design has a significant competitive advantage.

THE PROCESS:

STEP 1: Gather

Estimate Site Measurements - Capture Site Photos
Complete Project Sketch/Design - Establish Product Preferences

STEP 2: Submit

[Beldgard.com/designstudio](http://Belgard.com/designstudio) - Submit Project Data

STEP 3: Receive

4-5 Day Turnaround - 4 Perspective Photos - Overhead Photo
Estimated Material List & Video upon Request

TOP THREE REASONS TO USE BELGARD DESIGN STUDIO:

Reason 1: It's **FREE** to Belgard Authorized Contractors

Reason 2: It works - closure rates from our users average 80%

Reason 3: It's easy to use - either laptop or mobile device



BEFORE



AFTER



DESIGN



BELGARD®



Belgard.com/designstudio

"BDS completed designs help tremendously with explaining the intended result with our skilled staff and supervisors. It is also great to see the before photos, design, and after picture to see how we have taken an outdoor living project from concept to complete."

*- Ben Pamplin,
President of Heart of Texas
Landscape and Irrigation*





PAVERS & SLABS

CAMBRIDGE COBBLE®

Paver



PEDESTRIAN	LIGHT TRAFFIC	REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	*ADA	COLORGARD PROCESS	TEXTUREGARD PROCESS	FINISHES	
								GRANITE FINISH	TUMBLED/ANTIQUED
✓	✓				✓	✓			

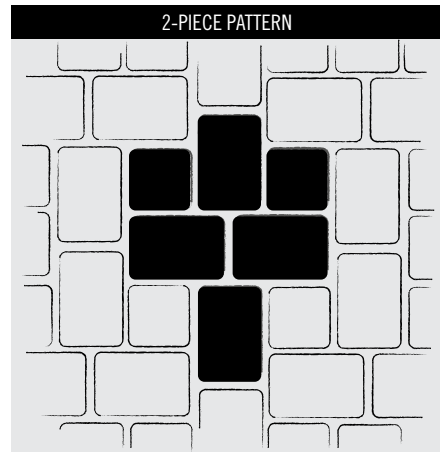
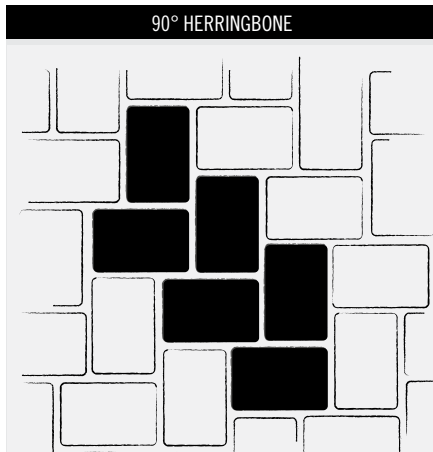
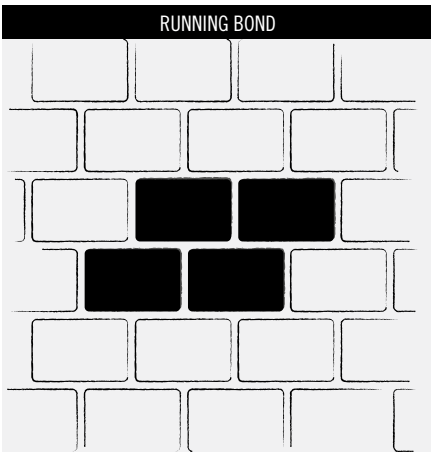
*Product is ADA compliant if joints are fully filled.

PRODUCT SPECIFICATIONS

A	Square		B	Rectangle	
	6 x 6 x 2 3/8			6 x 9 x 2 3/8	



CAMBRIDGE COBBLE LAYING GUIDE



RUNNING BOND	
6 x 6	100%
6 x 9	100%

90° HERRINGBONE	
6 x 9	100%

2-PIECE PATTERN	
6 x 6	25%
6 x 9	75%

For more pattern options visit belgard.com/products/pavers

PALLET INFORMATION / ESTIMATING CHART

CAMBRIDGE COBBLE SQUARE											
Unit Size	SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	LnFt/ Pallet (Soldier)	LnFt/ Layer (Sailor)	Units/ SqFt	SqFt/ Unit	Weight/ Layer	Weight/ Pallet
6 x 6	120	12	10	480	48	240	240	4	.25	312	3120
6 x 9	112.5	11.25	10	300	30	150	225	2.66	.375	297	2970

Suggested Soldier Coarse and Banding Ideas:

Cambridge 6x9



Holland



Suggested Sailor Coarse and Banding Ideas:

Cambridge 6x9



Holland



CAMBRIDGE COBBLE® 3-PIECE

Paver



PEDESTRIAN	LIGHT TRAFFIC	REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	*ADA	COLORGARD PROCESS	TEXTUREGARD PROCESS	FINISHES	
								GRANITE FINISH	TUMBLED/ANTIQUED
✓	✓				✓	✓			

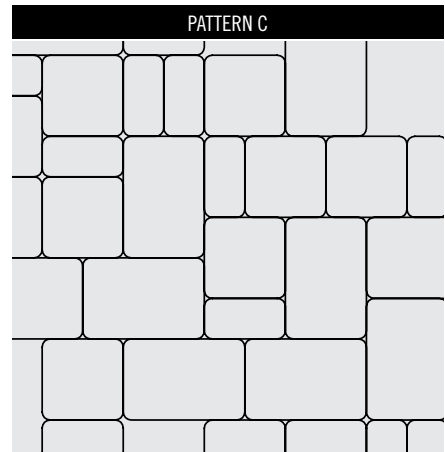
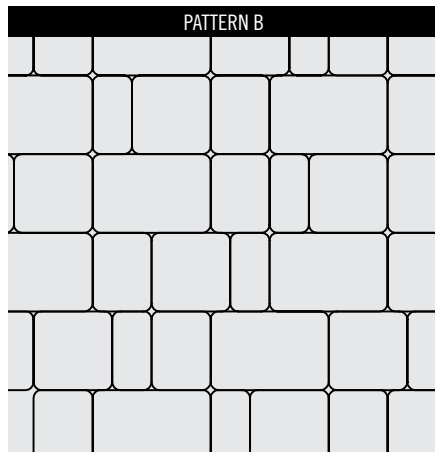
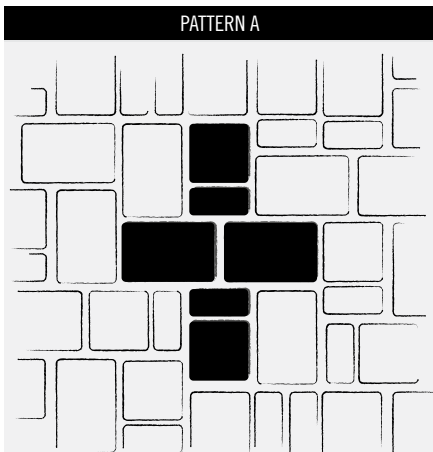
*Product is ADA compliant if joints are fully filled.

PRODUCT SPECIFICATIONS

3-Piece Modular	
6 x 3 x 2 3/8	
6 x 6 x 2 3/8	
6 x 9 x 2 3/8	



CAMBRIDGE COBBLE 3-PIECE LAYING GUIDE



PATTERN A	
6 x 6	33.33%
6 x 9	50%
6 x 3	16.67%

PATTERN B	
6 x 6	33.33%
6 x 9	50%
6 x 3	16.67%

PATTERN C	
6 x 6	33.33%
6 x 9	50%
6 x 3	16.67%

For more pattern options visit belgard.com/products/pavers

PALLET INFORMATION / ESTIMATING CHART

3-PIECE MODULAR											
Unit Size	SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	LnFt/ Pallet (Sailor)	LnFt/ Layer (Sailor)	Units/ SqFt	SqFt/ Unit	Weight/ Layer	Weight/ Pallet
Small Rectangle	18.94	1.89	-	160	16	-	-	8.38	.1184	-	-
Medium Square	38.70	3.87	-	160	16	-	-	4.09	.2419	-	-
Large Rectangle	58.46	5.85	-	160	16	-	-	2.75	.3654	-	-
TOTAL	116	11.6	10	480	48	240	24	-	-	301.6 lbs	3016 lbs

Suggested Soldier Coarse and Banding Ideas:

Cambridge 6x9



Holland



Suggested Sailor Coarse and Banding Ideas:

Cambridge 6x9



Holland



CAMBRIDGE COBBLE® CIRCLE

Paver



PEDESTRIAN	LIGHT TRAFFIC	REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	*ADA	COLORGARD PROCESS	TEXTUREGARD PROCESS	FINISHES	
								GRANITE FINISH	TUMBLLED/ANTIQUED
✓	✓				✓	✓			

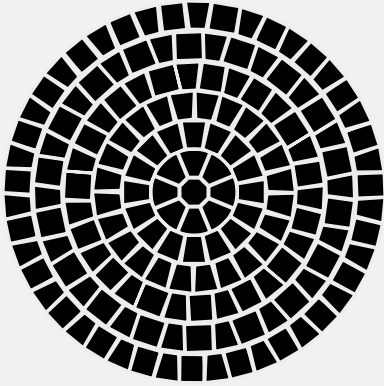
*Product is ADA compliant if joints are fully filled.

PRODUCT SPECIFICATIONS

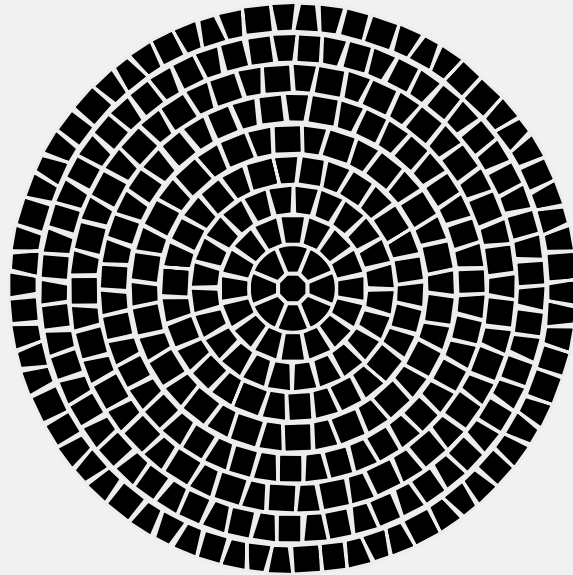
Circle Kit	
6 x Variable x 2 3/8	



CIRCLE 6'-5"



CIRCLE 9'-5"



For more pattern options visit belgard.com/products/pavers

PALLET INFORMATION / ESTIMATING CHART

EACH PALLET CONTAINS:

2 circles
each 6'5" in diameter

OR

1 circle
9'5" in diameter

CIRCLE KIT						
SqFt/ Pallet	SqFt/ Layer	Layer/ Pallet	Units/ Pallet	Units/ Layer	Weight/ Layer	Weight/ Pallet
73	6.63	11	462	42	215.73 lbs	2373 lbs

NOTE: Cambridge Cobble Circle Kits are sold in full pallets ONLY.
To create a circle larger than 9'5": install the Circle Kit then extend
with Cambridge Cobble Large/Medium/Small Rectangle
to achieve the desired circle diameter.

NOTES

CAMBRIDGE PAVER TILE

Paver Tile

SPECIAL ORDER

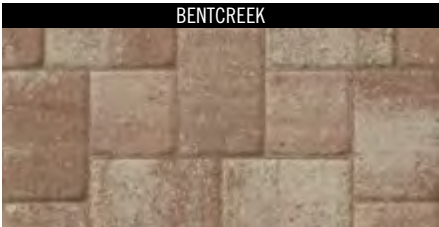


PEDESTRIAN	LIGHT TRAFFIC	REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	*ADA	COLORGARD PROCESS	TEXTUREGARD PROCESS	FINISHES	
								GRANITE FINISH	TUMBLED/ANTIQUED
✓					✓	✓			

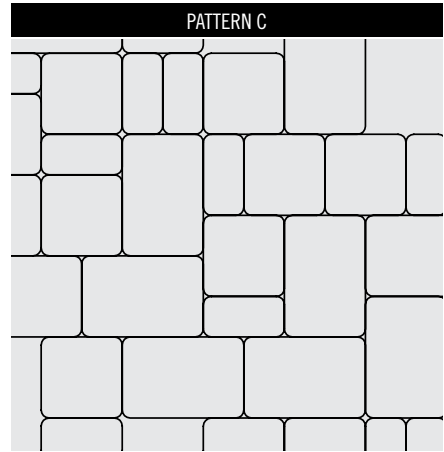
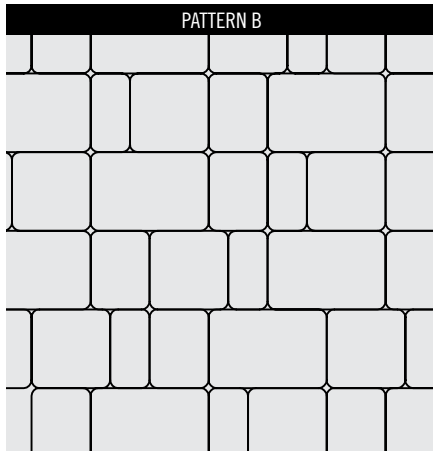
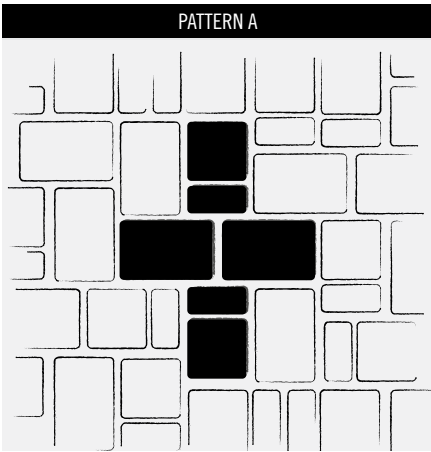
*Product is ADA compliant if joints are fully filled.

PRODUCT SPECIFICATIONS

3-Piece Modular	
6 x 3 x 1 3/16	
6 x 6 x 1 3/16	
6 x 9 x 1 3/16	



CAMBRIDGE COBBLE 3-PIECE LAYING GUIDE



PATTERN A	
6 x 6	33.33%
6 x 9	50%
6 x 3	16.67%

PATTERN B	
6 x 6	33.33%
6 x 9	50%
6 x 3	16.67%

PATTERN C	
6 x 6	33.33%
6 x 9	50%
6 x 3	16.67%

For more pattern options visit belgard.com/products/pavers

PALLET INFORMATION / ESTIMATING CHART

3-PIECE MODULAR											
Unit Size	SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	LnFt/ Pallet (Sailor)	LnFt/ Layer (Sailor)	Units/ SqFt	SqFt/ Unit	Weight/ Layer	Weight/ Pallet
Small Rectangle	7.50	.625	-	60	5	-	-	8	.125	-	-
Medium Square	24	2	-	96	8	-	-	4	.250	-	-
Large Rectangle	81	6.75	-	216	18	-	-	2.67	.375	-	-
TOTAL	124	10.3	12	372	31	225	18.75	-	-	139.5 lbs	1674 lbs

Suggested Soldier Coarse and Banding Ideas:

Holland Paver Tile



Suggested Sailor Coarse and Banding Ideas:

Holland Paver Tile



DUBLIN COBBLE®

Paver

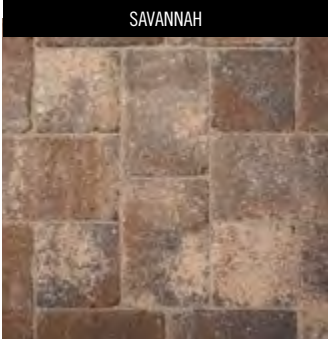
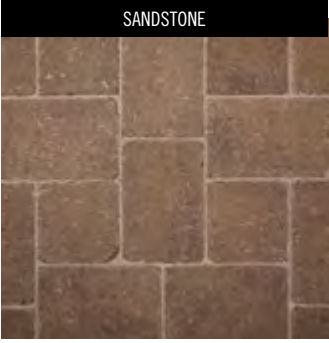
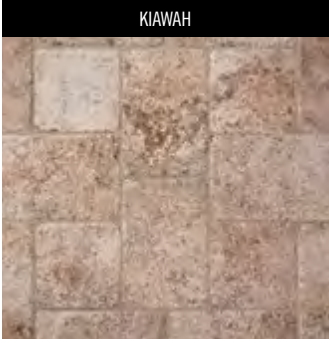
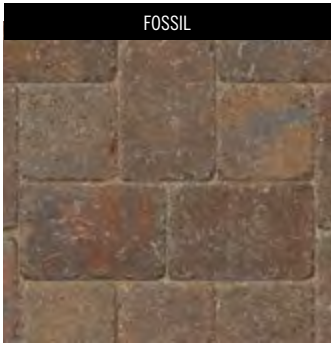
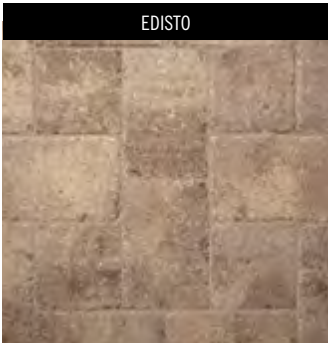
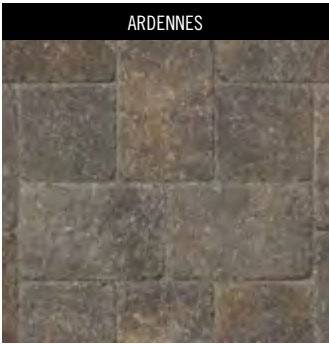


PEDESTRIAN	LIGHT TRAFFIC	REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA	COLORGARD PROCESS	TEXTUREGARD PROCESS	FINISHES	
								GRANITE FINISH	TUMBLD/ANTIQUED
✓	✓				✓	✓			✓

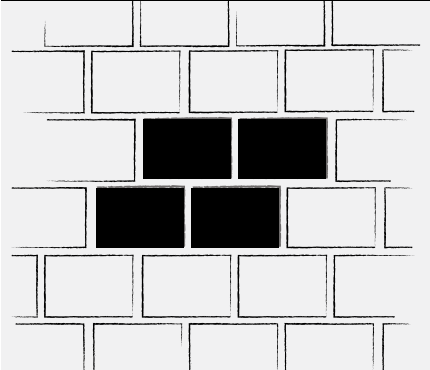
PRODUCT SPECIFICATIONS

A	Square
6 x 6 x 2 3/8	

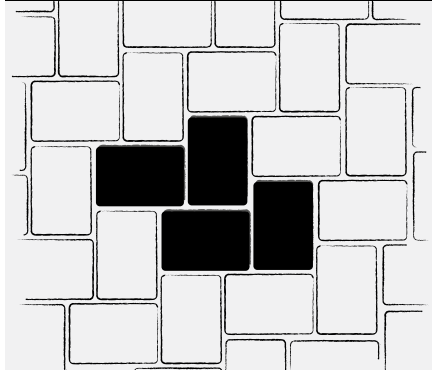
B	Rectangle
6 x 9 x 2 3/8	



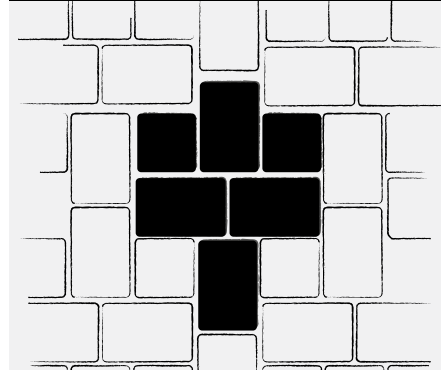
LG. RECTANGLE RUNNING BOND



LARGE RECTANGLE-90° HERRINGBONE



LARGE RECTANGLE & SQUARE



RUNNING BOND

6 x 6	100%
6 x 9	100%

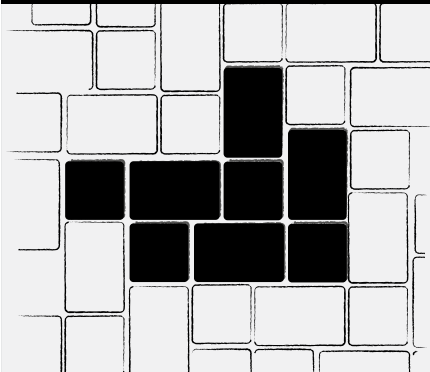
90° HERRINGBONE

6 x 6	100%
6 x 9	100%

RECTANGLE & SQUARE

6 x 6	25%
6 x 9	75%

LARGE RECTANGLE & SQUARE 45° HERRINGBONE MODIFIED



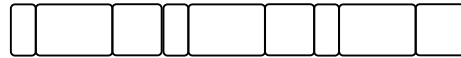
Suggested Soldier Coarse and Banding Ideas:

Dublin 6x9



Suggested Sailor Coarse and Banding Ideas:

Dublin 3 Piece



45° HERRINGBONE

6 x 6	33.33%
6 x 9	50%
6 x 3	16.67%

For more pattern options visit: belgard.com/products/pavers

PALLET INFORMATION / ESTIMATING CHART

Unit	SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	LnFt/ Pallet (Soldier)	LnFt/ Pallet (Sailor)	Units/ SqFt	SqFt/ Unit	Weight/ Layer	Weight/ Pallet
6 x 6	120	12	10	480	48	240	240	4	.250	312 lbs	3120 lbs
6 x 9	112.5	11.25	10	300	30	150	225	2.66	.375	297 lbs	2970 lbs

DUBLIN COBBLE® 3-PIECE

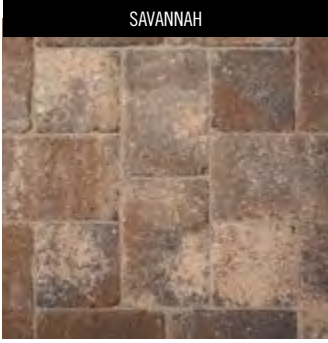
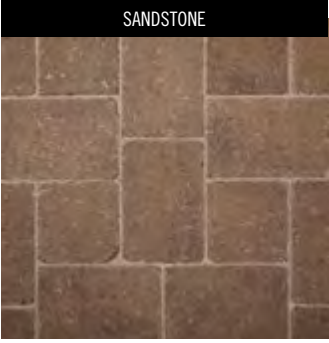
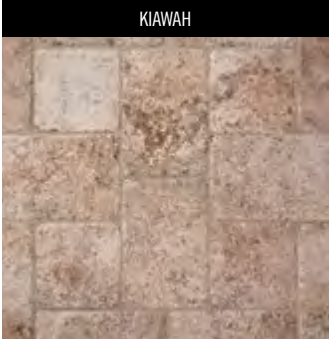
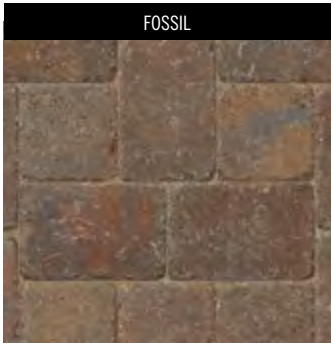
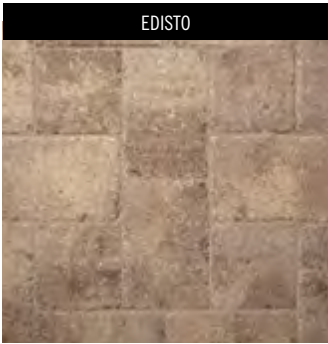
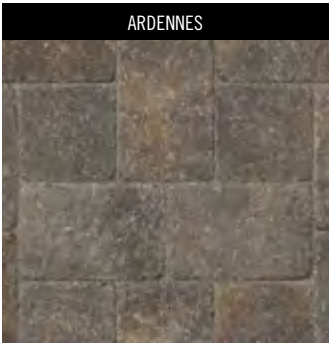
Paver



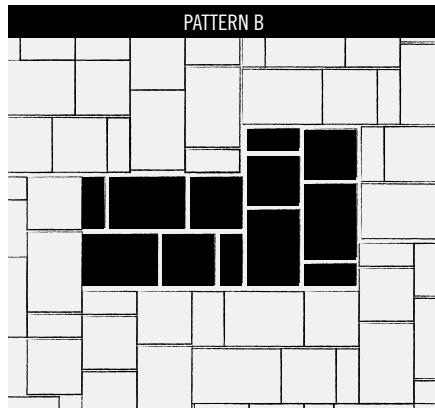
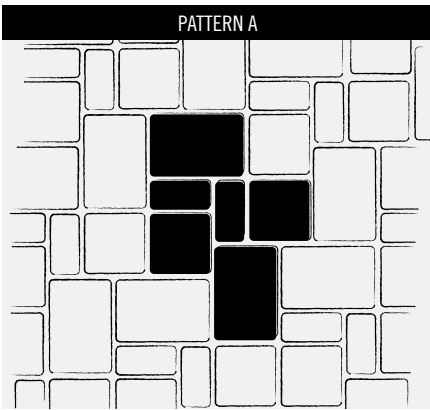
PEDESTRIAN	LIGHT TRAFFIC	REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA	COLORGARD PROCESS	TEXTUREGARD PROCESS	FINISHES	
								GRANITE FINISH	TUMBLED/ANTIQUED
✓	✓				✓	✓			✓

PRODUCT SPECIFICATIONS

3-Piece Modular	
3 x 6 x 2 3/8	
6 x 6 x 2 3/8	
6 x 9 x 2 3/8	



DUBLIN COBBLE 3-PIECE LAYING GUIDE



PATTERN A	
3 x 6	16.7%
6 x 6	33.3%
6 x 9	50%

PATTERN B	
3 x 6	17%
6 x 6	33%
6 x 9	50%

For more pattern options visit belgard.com/products/pavers

PALLET INFORMATION / ESTIMATING CHART

3-PIECE MODULAR											
Unit Size	SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	LnFt/ Pallet (Sailor)	LnFt/ Layer (Sailor)	Units/ SqFt	SqFt/ Unit	Weight/ Layer	Weight/ Pallet
Small Rectangle	18.94	1.89	-	160	16	-	-	8.38	.1184	-	-
Medium Square	38.70	3.87	-	160	16	-	-	4.09	.2419	-	-
Large Rectangle	58.46	5.85	-	160	16	-	-	2.75	.3654	-	-
TOTAL	116	11.6	10	480	48	240	24	-	-	313.2 lbs	3132 lbs

Suggested Soldier Coarse and Banding Ideas:

Dublin 6x9



Suggested Sailor Coarse and Banding Ideas:

Dublin 3 Piece



HOLLAND PAVER TILE

Paver Tile

SPECIAL ORDER



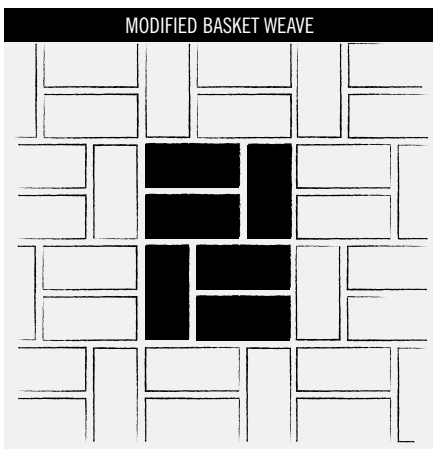
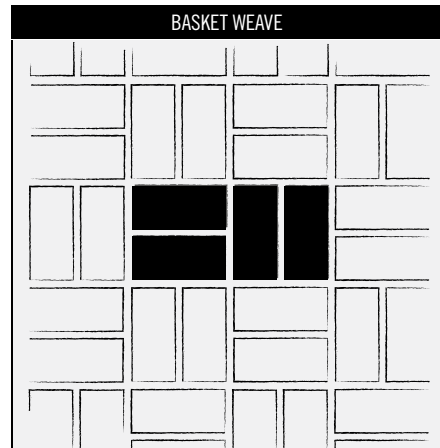
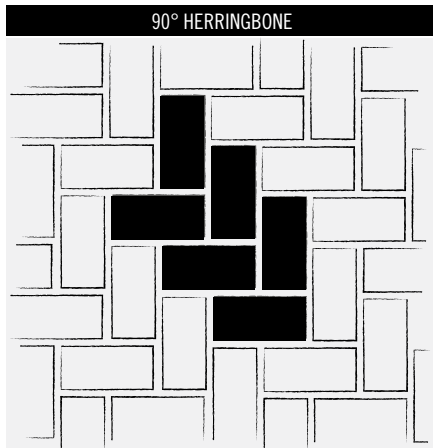
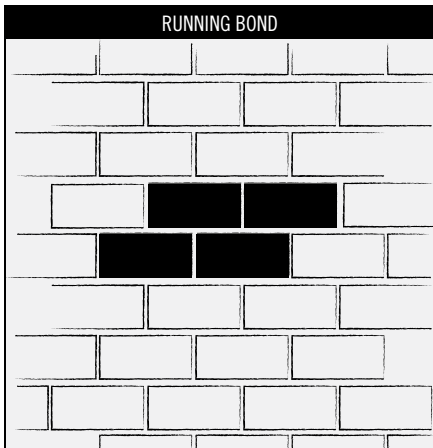
PEDESTRIAN	LIGHT TRAFFIC	REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA	COLORGARD PROCESS	TEXTUREGARD PROCESS	FINISHES	
								GRANITE FINISH	TUMBLED/ANTIQUED
✓					✓	✓			

PRODUCT SPECIFICATIONS

Holland Paver Tile	
4 x 8 x 1 3/16	



HOLLAND PAVER TILE LAYING GUIDE



For more pattern options visit belgard.com/products/pavers

PALLET INFORMATION / ESTIMATING CHART

HOLLAND PAVER TILE										
SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	LnFt/ Pallet (Soldier)	LnFt/ Section (Sailor)	Units/ SqFt	SqFt/ Unit	Weight/ Layer	Weight/ Pallet
145	10.4	14	672	48	168	448	4.5	.222	139.86 lbs	1958 lbs

NOTES

HOLLAND STONE

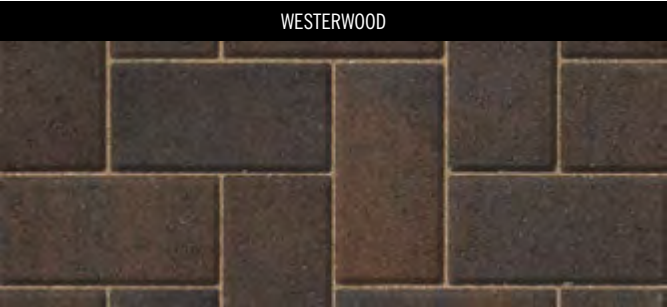
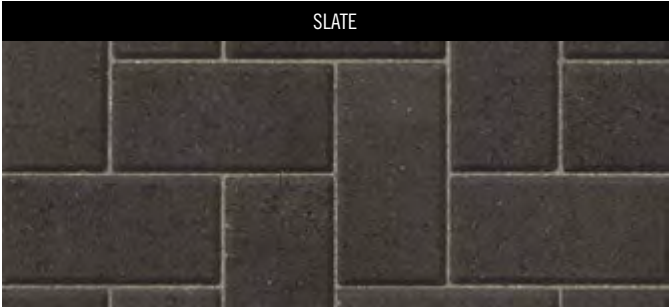
Paver



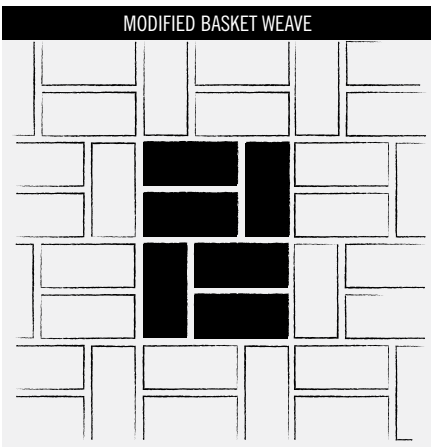
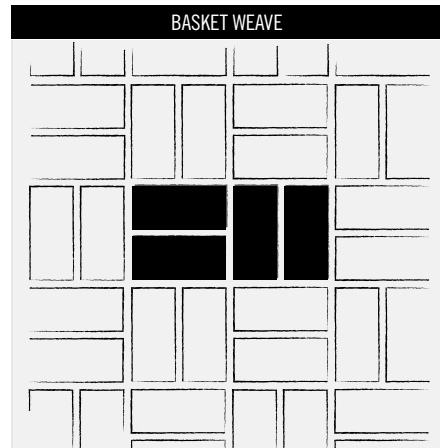
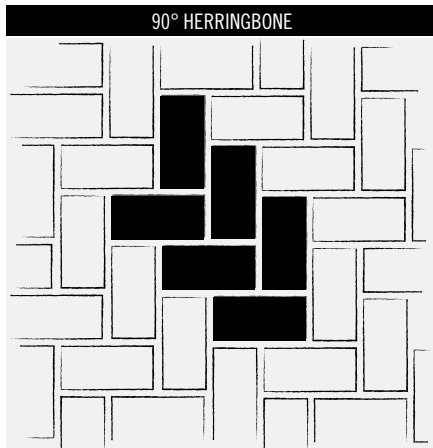
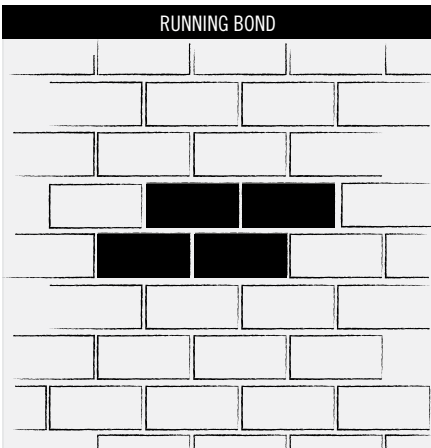
PEDESTRIAN	LIGHT TRAFFIC	REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA	COLORGARD PROCESS	TEXTUREGARD PROCESS	FINISHES	
								GRANITE FINISH	TUMBLED/ANTIQUED
✓	✓	✓	✓		✓	✓			

PRODUCT SPECIFICATIONS

A	60mm Holland Stone	
	4 x 8 x 2 3/8	
B	80mm Holland Stone **Special Order	
	4 x 8 x 3 1/8	



HOLLAND STONE LAYING GUIDE



For more pattern options visit belgard.com/products/pavers

PALLET INFORMATION / ESTIMATING CHART

60MM										
SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	LnFt/ Pallet (Soldier)	LnFt/ Section (Sailor)	Units/ SqFt	SqFt/ Unit	Weight/ Layer	Weight/ Pallet
120	12	10	540	54	180	360	4.65	.215	312 lbs	3120 lbs

80MM										
SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	LnFt/ Pallet (Soldier)	LnFt/ Section (Sailor)	Units/ SqFt	SqFt/ Unit	Weight/ Layer	Weight/ Pallet
96	12	8	432	54	144	288	4.65	.215	421.25 lbs	3370 lbs

LAFITT™

Paver



PEDESTRIAN	LIGHT TRAFFIC	REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA	COLORGARD PROCESS	TEXTUREGARD PROCESS	FINISHES	
								GRANITE FINISH	TUMBLED/ANTIQUED
✓	✓				✓	✓			

PRODUCT SPECIFICATIONS

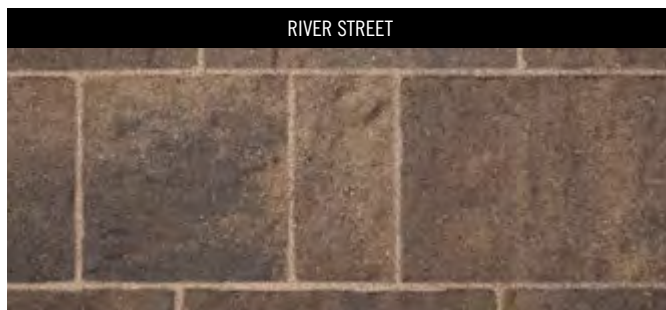
3-Piece Modular	
7 x 4 x 2 3/8	
7 x 7 x 2 3/8	
7 x 10 1/2 x 2 3/8	



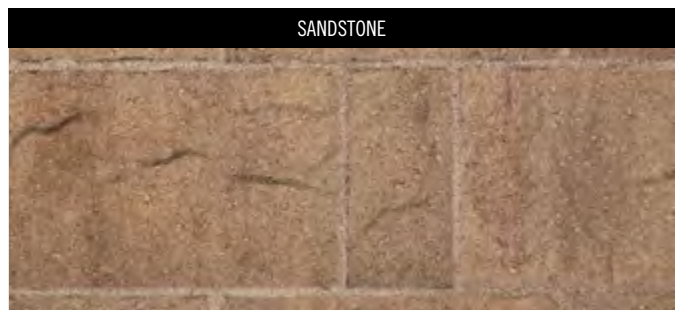
BELGIAN STONE



HATTERAS

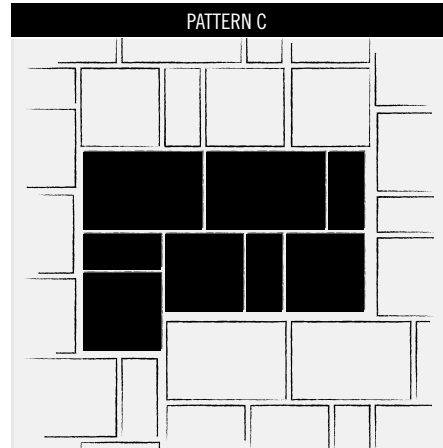
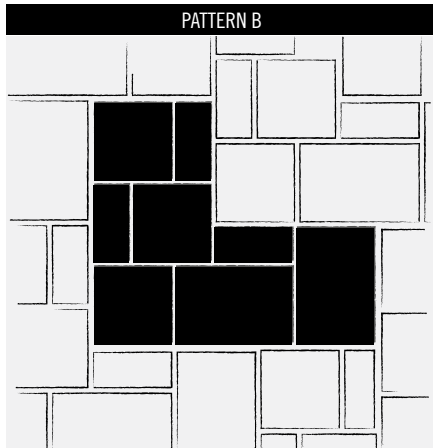
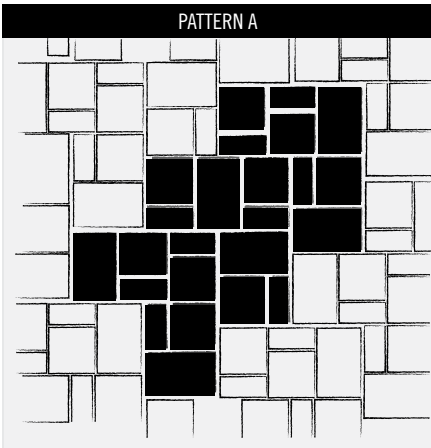


RIVER STREET



SANDSTONE

LAFITT LAYING GUIDE



PATTERN A	
7 x 4	37.5%
7 x 7	37.5%
7 x 10	25%

PATTERN B	
7 x 4	37.5%
7 x 7	37.5%
7 x 10	25%

PATTERN C	
7 x 4	37.5%
7 x 7	37.5%
7 x 10	25%

For more pattern options visit belgard.com/products/pavers

PALLET INFORMATION / ESTIMATING CHART

3-PIECE MODULAR									
Unit Size	SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	Units/ SqFt	SqFt/ Unit	Weight/ Layer	Weight/ Pallet
Small Rectangle	18.7	1.87	-	110	11	5.75	.17	-	-
Large Rectangle	52	5.2	-	100	10	1.92	.52	-	-
TOTAL	113	11.3	10	320	32	-	-	313.3 lbs	3133 lbs

Suggested Sailor Coarse and Banding Ideas:

Lafitt Paver
3 pc



LAFITT™ GRANA SLAB

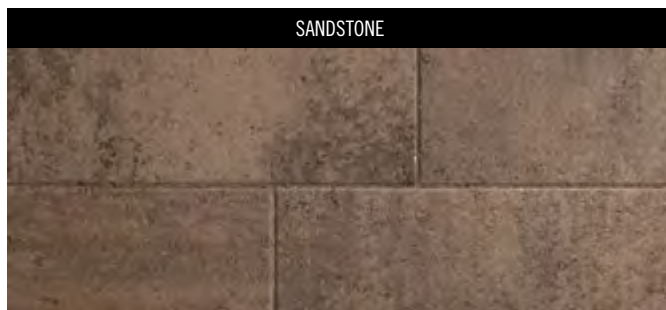
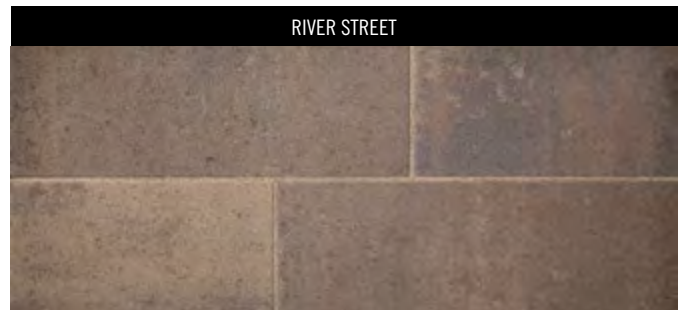
Slab



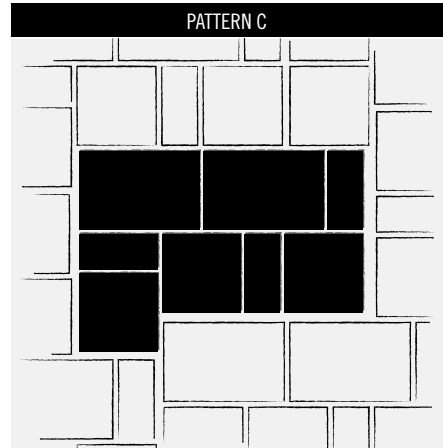
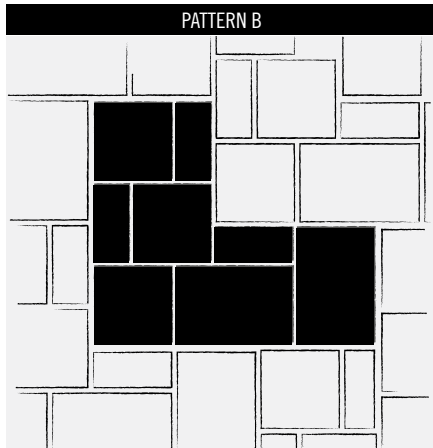
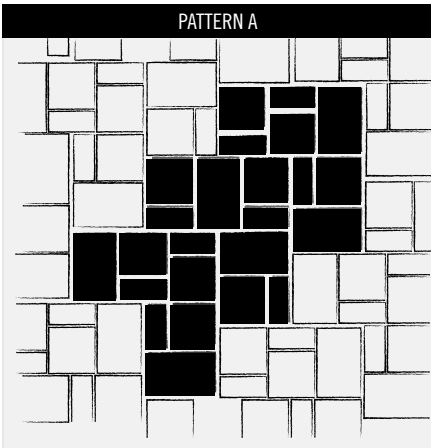
PEDESTRIAN	LIGHT TRAFFIC	REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA	COLORGARD PROCESS	TEXTUREGARD PROCESS	FINISHES	
								GRANITE FINISH	TUMBLED/ANTIQUED
✓					✓	✓			

PRODUCT SPECIFICATIONS

3-Piece Modular	
15 x 7 1/2 x 2	
15 x 15 x 2	
15 x 22 1/2 x 2	



LAFITT GRANA SLAB LAYING GUIDE



PATTERN A	
15 x 7 1/2	37.5%
15 x 15	37.5%
15 x 22 1/2	25%

PATTERN B	
15 x 7 1/2	37.5%
15 x 15	37.5%
15 x 22 1/2	25%

PATTERN C	
15 x 7 1/2	37.5%
15 x 15	37.5%
15 x 22 1/2	25%

For more pattern options visit belgard.com/products/pavers

PALLET INFORMATION / ESTIMATING CHART

3-PIECE MODULAR									
Unit Size	SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	Units/ SqFt	SqFt/ Unit	Weight/ Layer	Weight/ Pallet
Small Rectangle	28.08	2.34	-	36	3	1.28	.780	-	-
Square	56.16	4.68	-	36	3	.64	1.56	-	-
Large Rectangle	56.16	4.68	-	24	2	.43	2.34	-	-
TOTAL	140	11.67	12	96	8	-	-	233.33 lbs	2800 lbs

NOTES

LAFITT™ RUSTIC SLAB

Slab



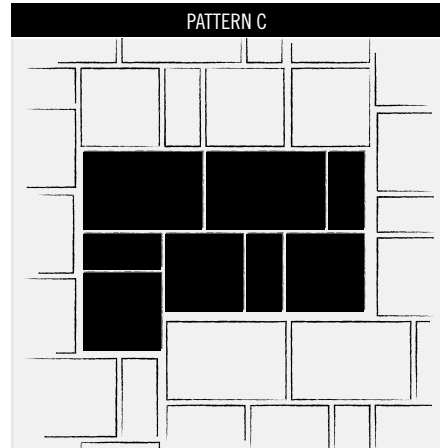
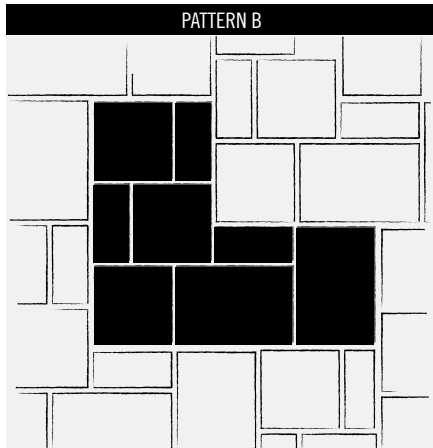
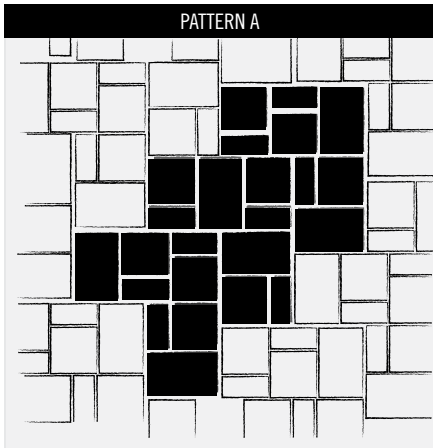
PEDESTRIAN	LIGHT TRAFFIC	REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA	COLORGARD PROCESS	TEXTUREGARD PROCESS	FINISHES	
								GRANITE FINISH	TUMBLED/ANTIQUED
✓					✓	✓			

PRODUCT SPECIFICATIONS

3-Piece Modular	
15 x 7 1/2 x 2	
15 x 15 x 2	
15 x 22 1/2 x 2	



LAFITT RUSTIC SLAB LAYING GUIDE



PATTERN A	
15 x 7 1/2	37.5%
15 x 15	37.5%
15 x 22 1/2	25%

PATTERN B	
15 x 7 1/2	37.5%
15 x 15	37.5%
15 x 22 1/2	25%

PATTERN C	
15 x 7 1/2	37.5%
15 x 15	37.5%
15 x 22 1/2	25%

For more pattern options visit belgard.com/products/pavers

PALLET INFORMATION / ESTIMATING CHART

3-PIECE MODULAR									
Unit Size	SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	Units/ SqFt	SqFt/ Unit	Weight/ Layer	Weight/ Pallet
Small Rectangle	28.08	2.34	-	36	3	1.28	.780	-	-
Square	56.16	4.68	-	36	3	.64	1.56	-	-
Large Rectangle	56.16	4.68	-	24	2	.43	2.34	-	-
TOTAL	140	11.67	12	96	8	-	-	233.33 lbs	2800 lbs

NOTES

MEGA-ARBEL®

Paver



PEDESTRIAN	LIGHT TRAFFIC	REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA	COLORGARD PROCESS	TEXTUREGARD PROCESS	FINISHES	
								GRANITE FINISH	TUMBLED/ANTIQUED
✓	✓				✓	✓			

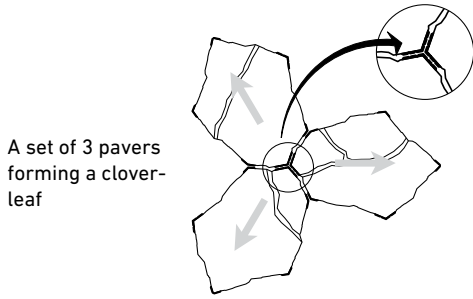
PRODUCT SPECIFICATIONS

Mega-Arbel 80mm	
15 3/8 x 21 x 3 1/8	



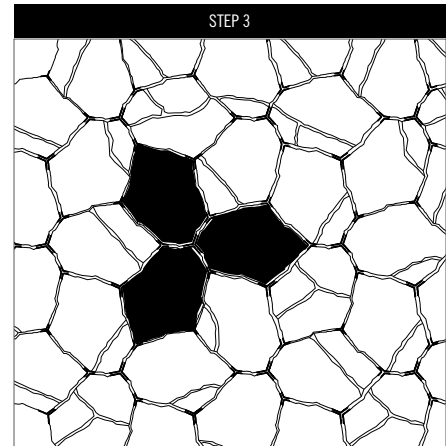
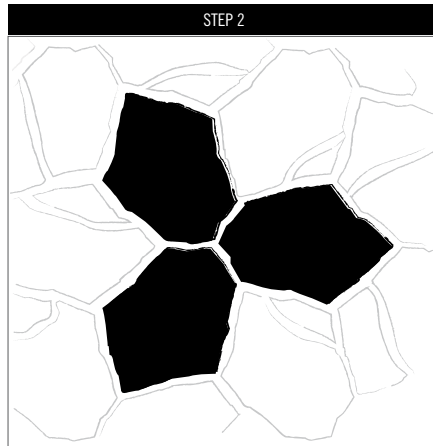
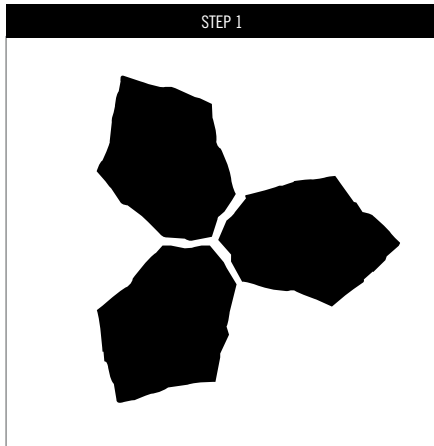
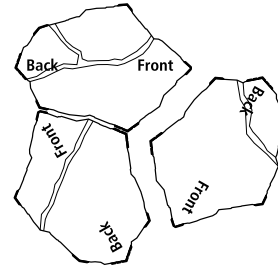
MEGA-ARBEL LAYING GUIDE

Before you start, familiarize yourself with the Mega Arbel pavers. Begin by placing 3 pavers together to form a cloverleaf.



A set of 3 pavers forming a clover-leaf

To make the installation easier, the front of the paver should point to the back of the other paver.



Begin by laying 3 pavers at the center of the surface to be covered.

Add more sets of cloverleaves to fill in the surface to be covered.

Complete the balance of the surface to be covered with single pavers.

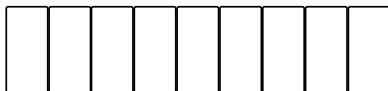
For more pattern options visit belgard.com/products/pavers

PALLET INFORMATION / ESTIMATING CHART

MEGA-ARBEL										
SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	LnFt/ Pallet (Soldier)	LnFt/ Section (Sailor)	Units/ SqFt	SqFt/ Unit	Weight/ Layer	Weight/ Pallet
86	8.6	10	60	6	-	-	.70	1.44	313.9 lbs	3139 lbs

Suggested Soldier Coarse and Banding Ideas:

Mega-Stone
5 x 9.5



Suggested Sailor Coarse and Banding Ideas:

Old World
Paver



Mega Lafitt 3 pc



MEGA-ARBEL® PATIO SLAB

Slab



PEDESTRIAN	LIGHT TRAFFIC	REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA	COLORGARD PROCESS	TEXTUREGARD PROCESS	FINISHES	
								GRANITE FINISH	TUMBLED/ANTIQUED
✓					✓	✓			

Patio slab is not recommended for vehicular applications.

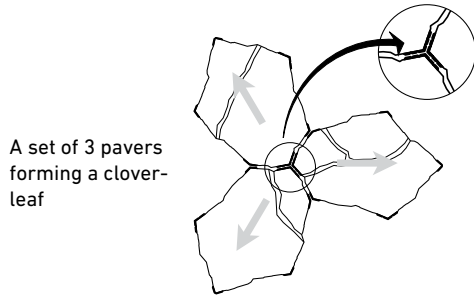
PRODUCT SPECIFICATIONS

Mega-Arbel Patio Slab 60mm	
15 3/8 x 21 x 2 3/8	



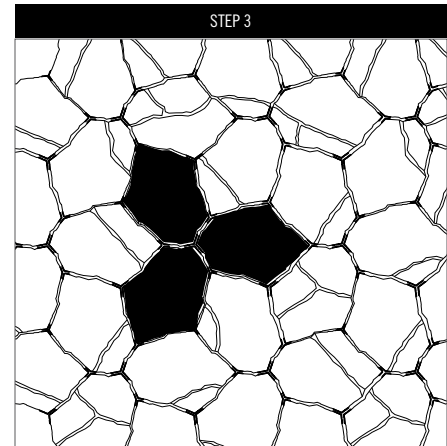
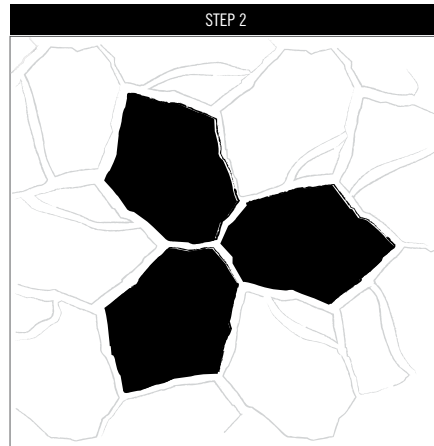
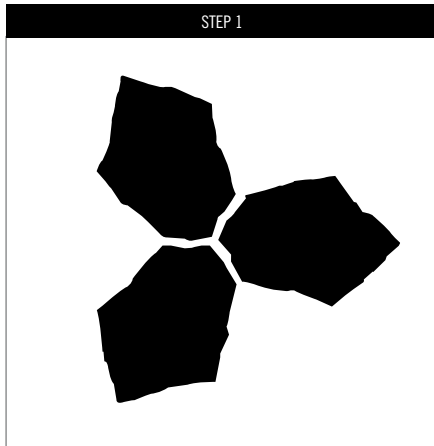
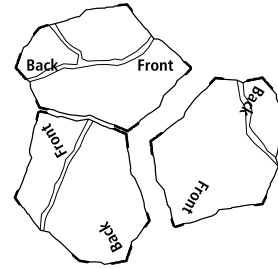
MEGA-ARBEL PATIO SLAB LAYING GUIDE

Before you start, familiarize yourself with the Mega Arbel pavers. Begin by placing 3 pavers together to form a cloverleaf.



A set of 3 pavers forming a clover-leaf

To make the installation easier, the front of the paver should point to the back of the other paver.



Begin by laying 3 pavers at the center of the surface to be covered.

Add more sets of cloverleaves to fill in the surface to be covered.

Complete the balance of the surface to be covered with single pavers.

For more pattern options visit belgard.com/products/pavers

PALLET INFORMATION / ESTIMATING CHART

MEGA-ARBEL PATIO SLAB										
SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	LnFt/ Pallet (Soldier)	LnFt/ Section (Sailor)	Units/ SqFt	SqFt/ Unit	Weight/ Layer	Weight/ Pallet
104.4	8.7	12	72	6	-	-	0.7	1.44	243.75 lbs	2925 lbs

Suggested Soldier Coarse and Banding Ideas:

Lafitt Paver
3 pc



Urbana 3 pc



Suggested Sailor Coarse and Banding Ideas:

Urbana Lg Sq



MEGA-BERGERAC®

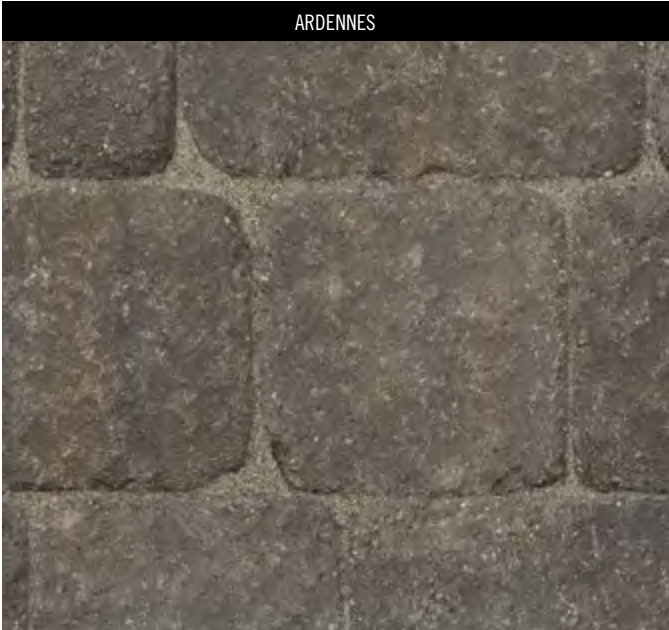
Paver



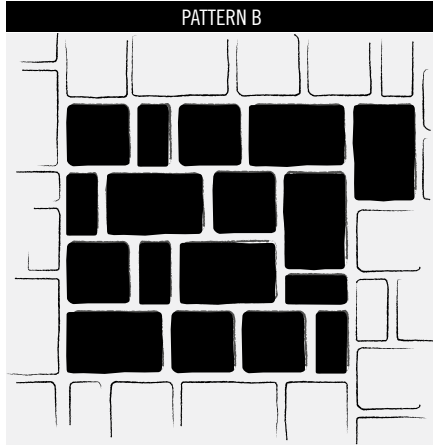
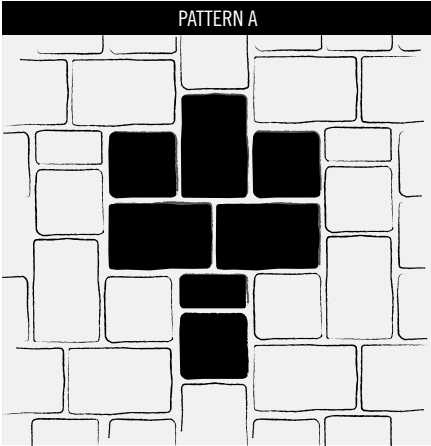
PEDESTRIAN	LIGHT TRAFFIC	REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA	COLORGARD PROCESS	TEXTUREGARD PROCESS	FINISHES	
								GRANITE FINISH	TUMBLED/ANTIQUED
✓	✓				✓	✓			✓

PRODUCT SPECIFICATIONS

3-Piece Modular	
9 1/2 x 4 3/4 x 3 1/8	
9 1/2 x 9 1/2 x 3 1/8	
9 1/2 x 14 1/2 x 3 1/8	



MEGA-BERGERAC LAYING GUIDE



PATTERN A	
5 x 9.5	7%
9 1/2 x 9 1/2	38%
9 1/2 x 14	55%

PATTERN A	
5 x 9.5	16.7%
9 1/2 x 9 1/2	33.33%
9 1/2 x 14	50%

For more pattern options visit belgard.com/products/pavers

PALLET INFORMATION / ESTIMATING CHART

3-PIECE MODULAR											
Unit Size	SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	LnFt/ Pallet (Sailor)	LnFt/ Layer (Sailor)	Units/ SqFt	SqFt/ Unit	Weight/ Layer	Weight/ Pallet
Small Rectangle	13.95	1.55	-	45	5	-	-	3.21	.31	-	-
Square	33.48	3.72	-	54	6	-	-	1.61	.62	-	-
Large Rectangle	50.22	5.58	-	54	6	-	-	1.08	.93	-	-
TOTAL	98	10.85	9	153	17	124.69	13.85	-	-	380 lbs	3420 lbs

Suggested Soldier Coarse and Banding Ideas:

Mega-Stone
5 x 9.5



Suggested Sailor Coarse and Banding Ideas:

Old World
Paver



Mega Lafitt 3 pc



MEGA-BERGERAC® CIRCLE

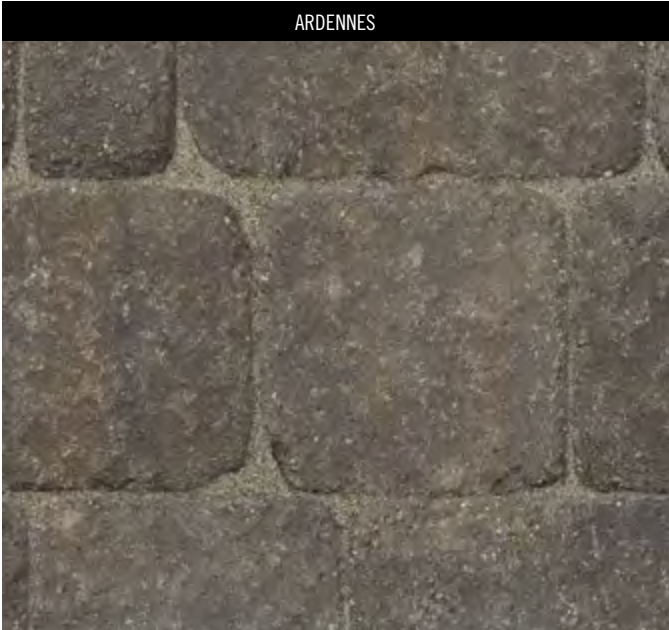
Circle Kit



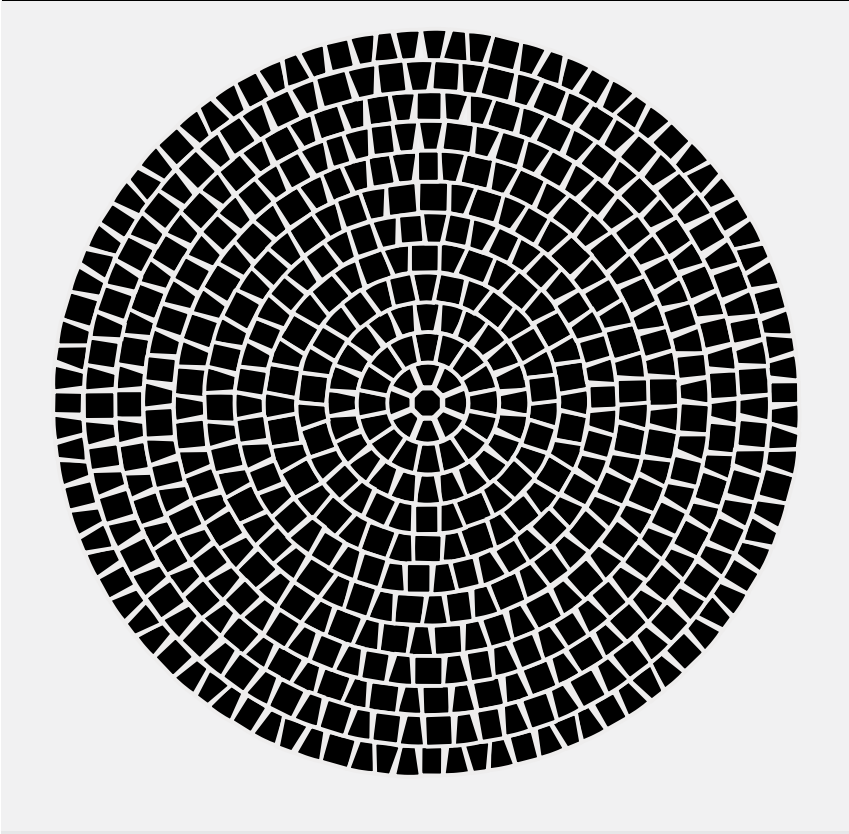
PEDESTRIAN	LIGHT TRAFFIC	REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA	COLORGARD PROCESS	TEXTUREGARD PROCESS	FINISHES	
								GRANITE FINISH	TUMBLED/ANTIQUED
✓	✓				✓	✓			✓

PRODUCT SPECIFICATIONS

Circle Kit	
9 1/2 x variable x 3 1/8	



CIRCLE 8'8"



For more pattern options visit belgard.com/products/pavers

PALLET INFORMATION / ESTIMATING CHART

EACH PALLET CONTAINS:

- 1 circle
- 8'8" in diameter

NOTE: Mega-Bergerac Circle Kits are sold in full pallets ONLY.

CIRCLE KIT						
SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	Weight/ Layer	Weight/ Pallet
62	12.4	5	120	24	434 lbs	2170 lbs

MEGA-LAFITT™

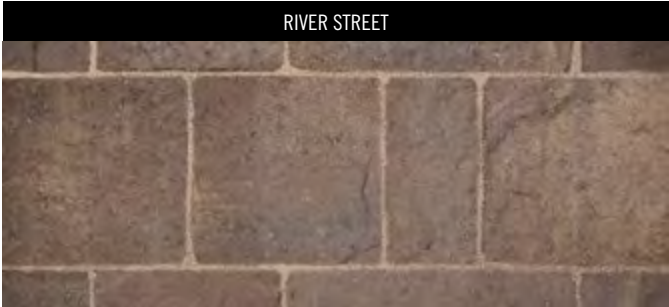
Paver



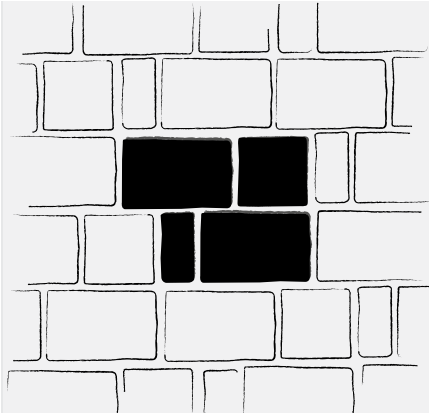
PEDESTRIAN	LIGHT TRAFFIC	REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA	COLORGARD PROCESS	TEXTUREGARD PROCESS	FINISHES	
								GRANITE FINISH	TUMBLED/ANTIQUED
✓	✓	✓			✓	✓			

PRODUCT SPECIFICATIONS

3-Piece Modular	
10 1/2 x 5 1/4 x 3 1/8	
10 1/2 x 10 1/2 x 3 1/8	
10 1/2 x 15 3/4 x 3 1/8	



3-PIECE RUNNING BOND



3-PIECE RUNNING BOND

15 x 7 1/2	20%
15 x 15	40%
15 x 22 1/2	40%

For more pattern options visit belgard.com/products/pavers

PALLET INFORMATION / ESTIMATING CHART

3-PIECE MODULAR

Unit Size	SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	Units/ SqFt	SqFt/ Unit	Weight/ Layer	Weight/ Pallet
Small Rectangle	13.32	1.48	-	36	4	2.7	.37	-	-
Square	27	3	-	36	4	1.33	.75	-	-
Large Rectangle	50.85	5.65	-	45	5	.884	1.13	-	-
TOTAL	93	10.3	9	117	13	-	-	355.56 lbs	3,200 lbs

Suggested Soldier Coarse and Banding Ideas:

Mega-Stone
5 x 9.5



Suggested Sailor Coarse and Banding Ideas:

Old World
Paver



Mega Lafitt 3 pc



MEGA STONE

Paver



PEDESTRIAN	LIGHT TRAFFIC	REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA	COLORGARD PROCESS	TEXTUREGARD PROCESS	FINISHES	
								GRANITE FINISH	TUMBLED/ANTIQUED
✓	✓	✓			✓	✓			✓

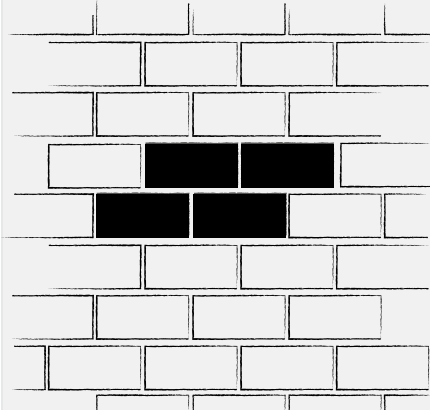
PRODUCT SPECIFICATIONS

C	Mega Stone
9 1/2 x 4 3/4 x 3 1/8	

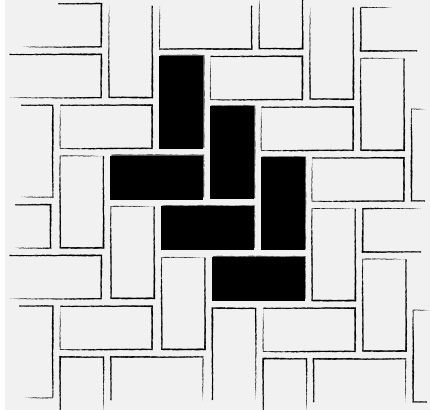


MEGA STONE LAYING GUIDE

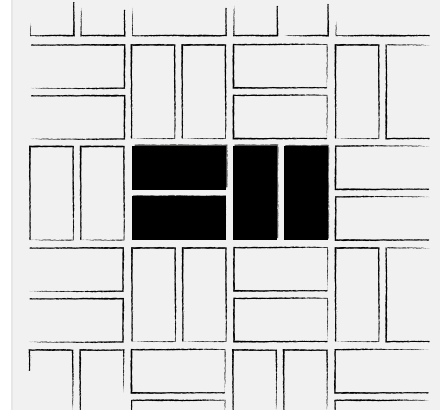
RUNNING BOND



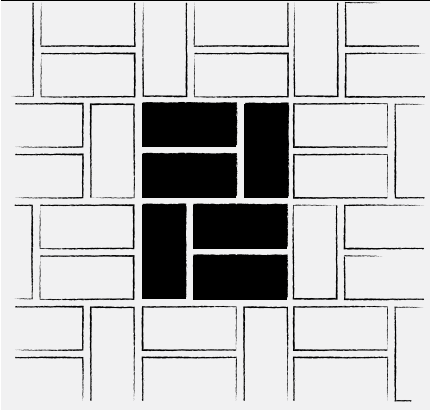
90° HERRINGBONE



BASKET WEAVE



MODIFIED BASKET WEAVE



For more pattern options visit belgard.com/products/pavers

MEGA STONE

SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	LnFt/ Pallet (Soldier)	LnFt/ Pallet (Sailor)	Units/ SqFt	SqFt/ Unit	Weight/ Layer	Weight/ Pallet
98	10.9	9	315	35	124.68	249.38	3.21	.310	373 lbs	3357 lbs

OLD WORLD PAVER™

Paver



PEDESTRIAN	LIGHT TRAFFIC	REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA	COLORGARD PROCESS	TEXTUREGARD PROCESS	FINISHES	
								GRANITE FINISH	TUMBLED/ANTIQUED
✓	✓	✓		✓	✓	✓			

PRODUCT SPECIFICATIONS

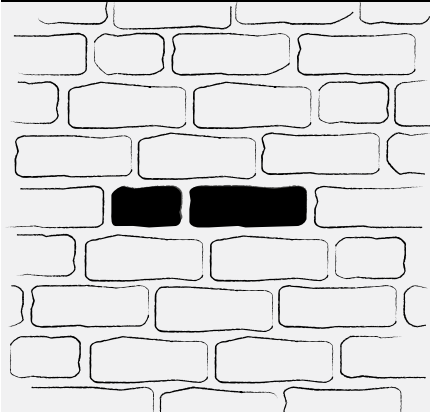
3-Piece Modular	
5 1/8 x 7 3/4 x 3 1/8	
5 1/8 x 10 1/4 x 3 1/8	
5 1/8 x 12 7/8 x 3 1/8	

Note: Old World can be used as a permeable paver with proper joint and base materials.

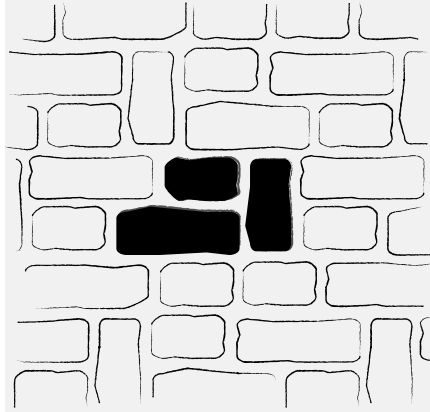


OLD WORLD PAVER LAYING GUIDE

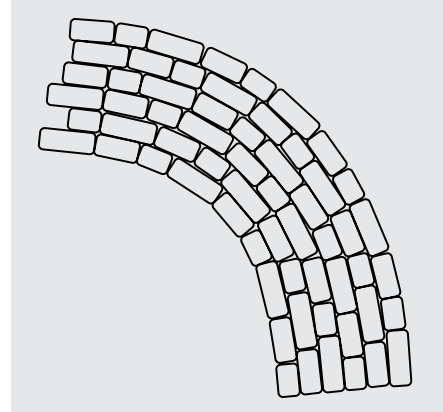
RANDOM RUNNING BOND - PATTERN A



RANDOM RUNNING BOND - PATTERN B



RANDOM RUNNING BOND - PATTERN B



3-PIECE RUNNING BOND

5 1/8 x 7 3/4	33%
5 1/8 x 10 1/4	33%
5 1/8 x 12 7/8	33%

3-PIECE RUNNING BOND

5 1/8 x 7 3/4	33%
5 1/8 x 10 1/4	33%
5 1/8 x 12 7/8	33%

3-PIECE RUNNING BOND

5 1/8 x 7 3/4	33%
5 1/8 x 10 1/4	33%
5 1/8 x 12 7/8	33%

For more pattern options visit belgard.com/products/pavers

PALLET INFORMATION / ESTIMATING CHART

3-PIECE MODULAR

Unit Size	SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	LnFt/ Pallet (Sailor)	LnFt/ Layer (Soldier)	Units/ SqFt	SqFt/ Unit	Weight/ Pallet
Small Rectangle	24.28	3.03	-	88	-	36.96	3.63	0.2759	-
Medium Rectangle	35.22	4.4	-	96	-	40.32	2.50	0.3669	-
Large Rectangle	32.95	4.12	-	72	-	30.24	2.19	0.4576	-
TOTAL	90	11.28	8	256	214.96	-	-	-	2988 lbs

OLD YORK™ PAVER

Paver

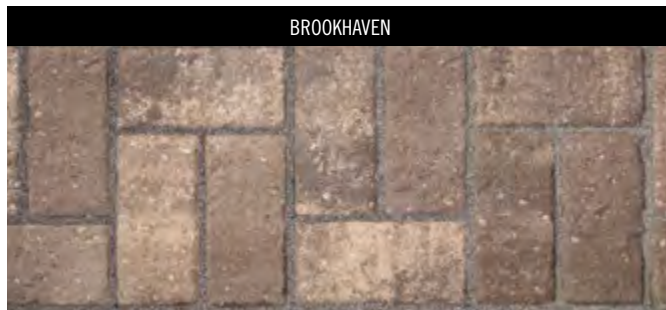


PEDESTRIAN	LIGHT TRAFFIC	REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA	COLORGARD PROCESS	TEXTUREGARD PROCESS	FINISHES	
								GRANITE FINISH	TUMBLED/ANTIQUED
✓	✓	✓		✓	✓	✓			

PRODUCT SPECIFICATIONS

Rectangle	
3 15/16 x 7 7/8 x 2 3/8	

Note: Old York can be used as a permeable paver with proper joint and base materials.



BROOKHAVEN

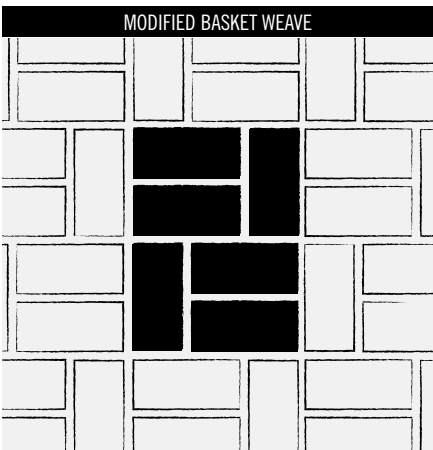
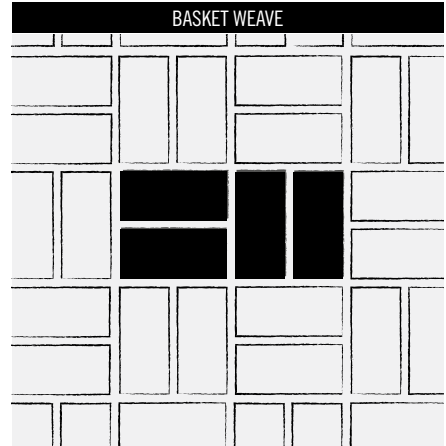
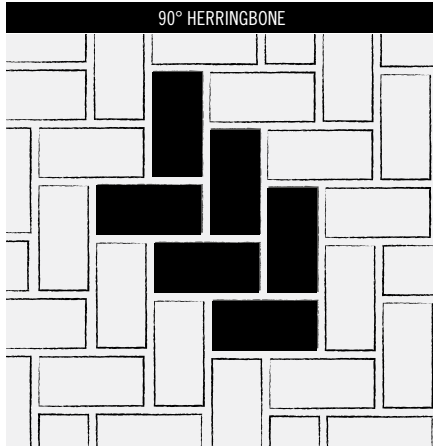
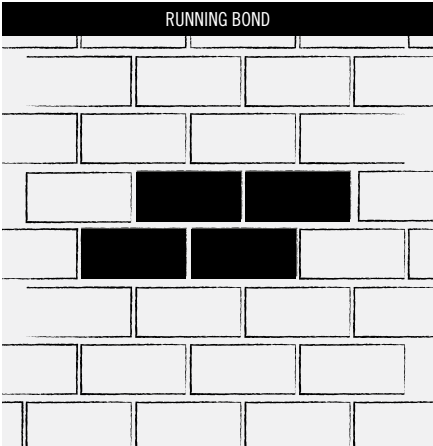


SUMMER HILL



MADISON

OLD YORK PAVER LAYING GUIDE



For more pattern options visit belgard.com/products/pavers

PALLET INFORMATION / ESTIMATING CHART

Old York									
SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	Units/ SqFt	SqFt/ Unit	Weight/ Unit	Weight/ Layer	Weight/ Pallet
120	12	10	540	54	4.65	29.2	5.5 lbs	321.	3216 lbs.

NOTES

UNIVERSAL CIRCLE ANTIQUE

Paver



PEDESTRIAN	LIGHT TRAFFIC	REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA	COLORGARD PROCESS	TEXTUREGARD PROCESS	FINISHES	
								GRANITE FINISH	TUMBLED/ANTIQUED
✓	✓					✓			✓

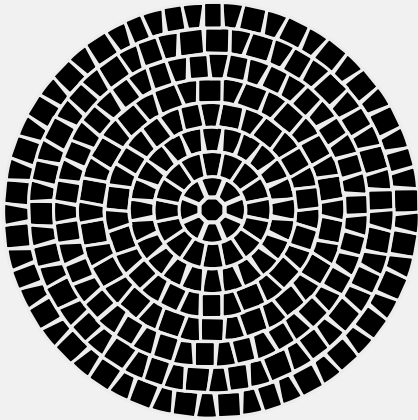
PRODUCT SPECIFICATIONS

Universal Circle	
Various Shapes & Sizes 2 3/8" Thick	

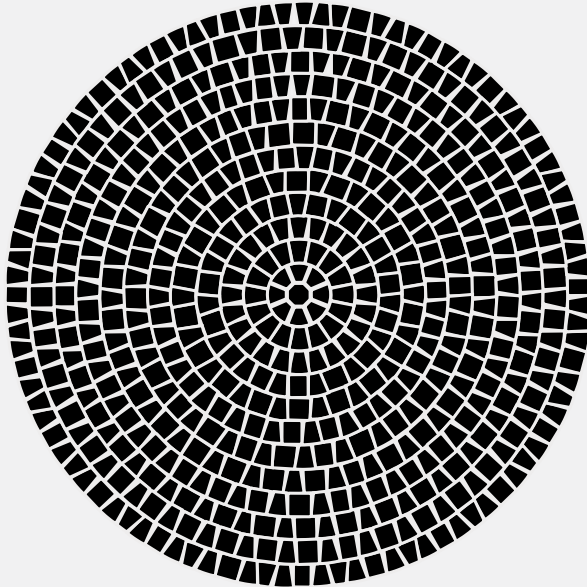


UNIVERSAL CIRCLE ANTIQUE LAYING GUIDE

CIRCLE 7' 10"



CIRCLE 11'7"



PALLET INFORMATION / ESTIMATING CHART

EACH PALLET CONTAINS:

2 circles
each 7'10" in diameter

OR

1 circle
11'7" in diameter

CIRCLE KIT

SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	Weight/ Layer	Weight/ Pallet
107	9.73	11	616	56	283.55 lbs	3,119 lbs

NOTE: Circle Kits are sold in full pallets ONLY.

For more pattern options visit belgard.com/products/pavers

NOTES

URBANA® STONE

Paver



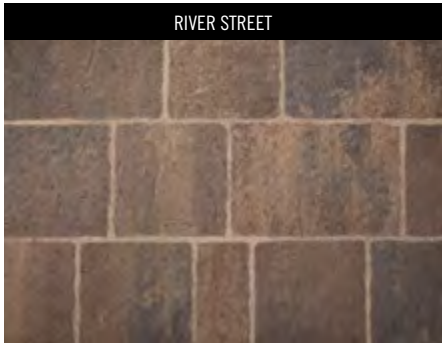
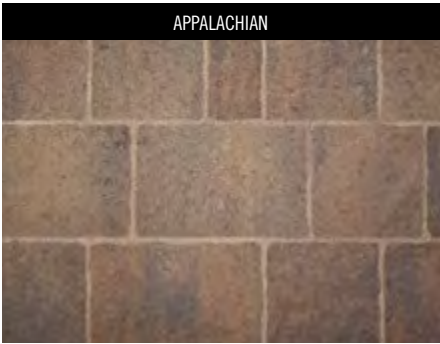
PEDESTRIAN	LIGHT TRAFFIC	REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA	COLORGARD PROCESS	TEXTUREGARD PROCESS	FINISHES	
								GRANITE FINISH	TUMBLED/ANTIQUED
✓	✓			✓	✓	✓			

PRODUCT SPECIFICATIONS

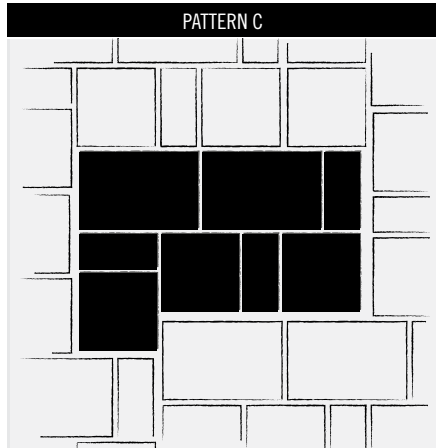
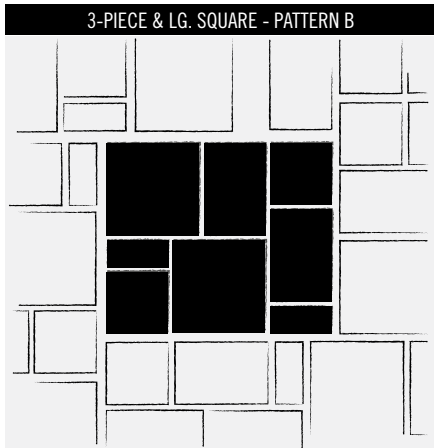
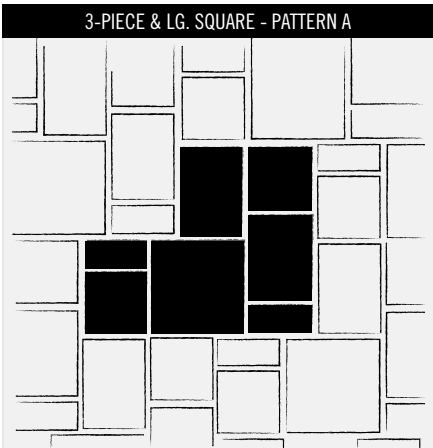
3-Piece Modular	
8 x 4 x 2 3/8	
8 x 8 x 2 3/8	
8 x 12 x 2 3/8	

Large Square	
12 x 12 x 2 3/8	

Note: Urbana can be used as a permeable paver with proper joint and base materials.



URBANA STONE LAYING GUIDE

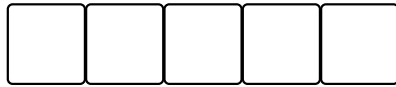


Suggested Soldier Coarse and Banding Ideas:

Dublin Cobble
6 x 9



Urbana Lg Sq



Suggested Sailor Coarse and Banding Ideas:

Lafitt Paver
3 pc



PATTERN A	
8 x 4	28.6%
8 x 8	28.6%
8 x 12	28.6%
12 x 12	14%

PATTERN A	
8 x 4	25%
8 x 8	25%
8 x 12	25%
12 x 12	25%

PATTERN C	
8 x 4	37.5%
8 x 8	37.5%
8 x 12	25%

For more pattern options visit belgard.com/products/pavers

PALLET INFORMATION / ESTIMATING CHART

3-PIECE MODULAR											
Unit Size	SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	LnFt/ Pallet (Sailor)	LnFt/ Layer (Sailor)	Units/ SqFt	SqFt/ Unit	Weight/ Layer	Weight/ Pallet
Small Rectangle	19.38	1.94	-	90	9	60	6	4.64	.215	-	-
Medium Square	38.75	3.88	-	90	9	60	6	2.32	.431	-	-
Large Rectangle	58.12	5.81	-	90	9	60	6	1.55	.646	-	-
TOTAL	116	11.6	10	270	27	180	18	-	-	319 lbs	3190 lbs

LARGE SQUARE											
SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	LnFt/ Pallet (Soldier)	LnFt/ Layer (Sailor)	Units/ SqFt	SqFt/ Unit	Weight/ Layer	Weight/ Pallet	
116	11.6	10	120	12	120	12	1	1	381.6 lbs	3816 lbs	

URBANA[®] PAVER TILE

Paver Tile

SPECIAL ORDER



PEDESTRIAN	LIGHT TRAFFIC	REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA	COLORGARD PROCESS	TEXTUREGARD PROCESS	FINISHES	
								GRANITE FINISH	TUMBLED/ANTIQUED
✓					✓	✓			

PRODUCT SPECIFICATIONS

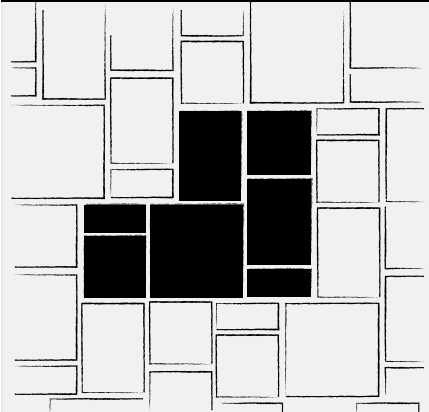
3-Piece Modular	
8 x 12 x 1 3/16	
8 x 8 x 1 3/16	
8 x 4 x 1 3/16	

Large Square	
12 x 12 x 1 3/16	

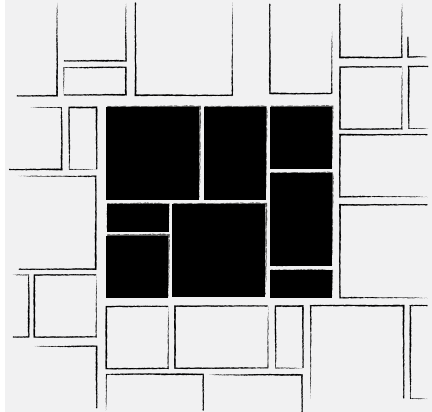


URBANA STONE LAYING GUIDE

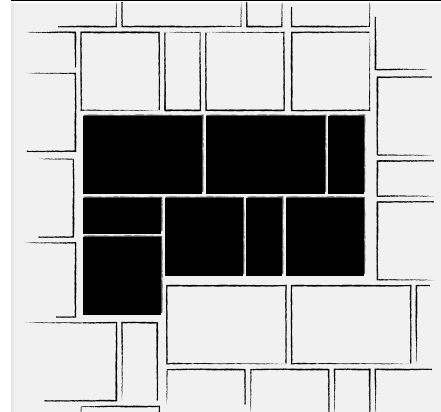
3-PIECE & LG. SQUARE - PATTERN A



3-PIECE & LG. SQUARE - PATTERN B



PATTERN C



PATTERN A

8 x 4	28.6%
8 x 8	28.6%
8 x 12	28.6%
12 x 12	14%

PATTERN A

8 x 4	25%
8 x 8	25%
8 x 12	25%
12 x 12	25%

PATTERN C

7 x 4	37.5%
7 x 7	37.5%
7 x 10	25%

For more pattern options visit belgard.com/products/pavers

PALLET INFORMATION / ESTIMATING CHART

3-PIECE MODULAR

Unit Size	SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	LnFt/ Pallet (Sailor)	LnFt/ Layer (Sailor)	Units/ SqFt	SqFt/ Unit	Weight/ Layer	Weight/ Pallet
Small Rectangle	17.22	1.72	-	80	8	53.33	5.33	4.65	.215	-	-
Medium Square	34.45	3.44	-	80	8	53.33	2.32	2.32	.431	-	-
Large Rectangle	51.66	5.17	-	80	8	80	8	1.55	.646	-	-
TOTAL	103	10.3	10	240	24	160	16	-	-	139.1 lbs	1391 lbs

LARGE SQUARE

SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	LnFt/ Pallet (Soldier)	LnFt/ Pallet (Sailor)	Units/ SqFt	SqFt/ Unit	Weight/ Layer	Weight/ Pallet
116	11.6	10	120	12	120	120	1	1	156 lbs	1566 lbs

PAVER ESTIMATING FORMULA

Aggregate Base Estimating Formula

For this example we are using a 10' x 15' Rectangular patio with a 6" base.

1. Calculate the square footage of the job.
2. Divide the square footage by 200. (1 ton of loose aggregate covers 200 SqFt at 1" thick)
3. Multiply by the thickness of the base in inches.
4. Multiply by 1.25 to account for the compaction.
5. This gives you the number of tons of aggregate you need.

Project Example:

$$\begin{aligned} 15 (L) \times 10 (W) &= 150 \text{ SqFt} \\ 150 \text{ SqFt} / 200 &= .75 \text{ tons/inch of base} \\ .75 \times 6 \text{ inches of base} &= 4.5 \text{ tons} \\ 4.5 \text{ tons} \times 1.25 &= 5.625 \text{ tons} \\ 5.625 \text{ Tons of Aggregate} &\text{ Needed} \end{aligned}$$

Bedding Sand Estimating Formula

For this example we are using a 10' x 15' Rectangular patio with a 6" base.

1. Calculate the square footage of the job.
2. Divide the square footage by 200. (1 ton of loose sand covers 200 SqFt at 1" thick)
3. Multiply by the thickness of the base in inches.
4. Multiply by 1.25 to account for the compaction.
5. This gives you the number of tons of bedding sand you need.

Project Example:

$$\begin{aligned} 15 (L) \times 10 (W) &= 150 \text{ SqFt} \\ 150 \text{ SqFt} / 200 &= .75 \text{ tons/inch of base} \\ .75 \times 1 \text{ inches of sand} &= .75 \text{ tons} \\ .75 \text{ tons} \times 1.25 &= .9375 \text{ tons} \\ .9375 \text{ Tons of Bedding Sand} &\text{ Needed} \end{aligned}$$

Soldier Course Estimating Formula

For this example we are using a 10' x 15' Rectangular patio with Holland Stone for the Soldier course.

1. Add up the linear footage of the job.
2. Multiply the linear footage by 12 to convert to inches.
3. Divide by the width of the paving stone being used for the soldier course to get the number of stones needed.
4. Multiply the number of stones by the SqFt/Unit.
5. This gives you the amount of square footage needed.

Project Example:

$$\begin{aligned} 15(L^1) + 10(L^2) + 15(L^3) + 10(L^4) &= 50 \text{ LnFt} \\ 50 \text{ LnFt} \times 12 &= 600 \\ 600 / 4 &= 150 \\ 150 \text{ units} \times .215 &= 32.25 \text{ SqFt} \\ 32.25 \text{ SqFt} &\text{ Needed} \end{aligned}$$

Sailor Course Estimating Formula

For this example we are using a 10' x 15' Rectangular patio with Holland Stone for the Sailor course.

1. Add up the linear footage of the job.
2. Multiply the linear footage by 12 to convert to inches.
3. Divide by the length of the paving stone being used for the soldier course to get the number of stones needed.
4. Multiply the number of stones by the SqFt/Unit.
5. This gives you the amount of square footage needed.

Project Example:

$$\begin{aligned} 15(L^1) + 10(L^2) + 15(L^3) + 10(L^4) &= 50 \text{ LnFt} \\ 50 \text{ LnFt} \times 12 &= 600 \\ 600 / 8 &= 75 \\ 75 \text{ units} \times .215 &= 16.125 \text{ SqFt} \\ 16.125 \text{ SqFt} &\text{ Needed} \end{aligned}$$







PERMEABLE
PAVERS

AQUA-BRIC®

Permeable Paver



PEDESTRIAN	LIGHT TRAFFIC	REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA	COLORGARD PROCESS	TEXTUREGARD PROCESS	FINISHES	
								GRANITE FINISH	TUMBLLED/ANTIQUED
✓	✓	✓	✓	✓	✓	✓			

PRODUCT SPECIFICATIONS

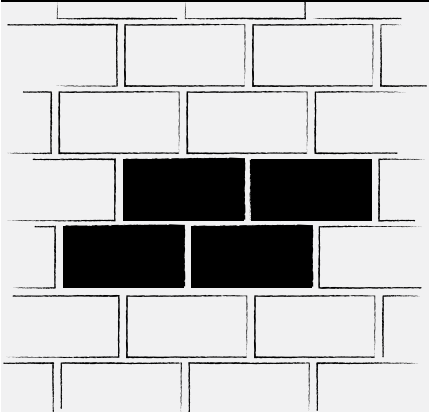
Aqua-Bric	
5 x 10 x 3 1/8	

Additional colors available by special request.

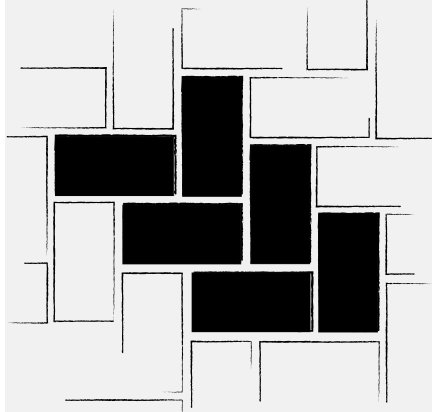


AQUA-BRIC LAYING GUIDE

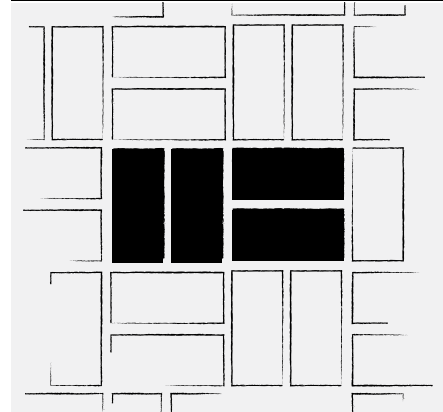
RUNNING BOND



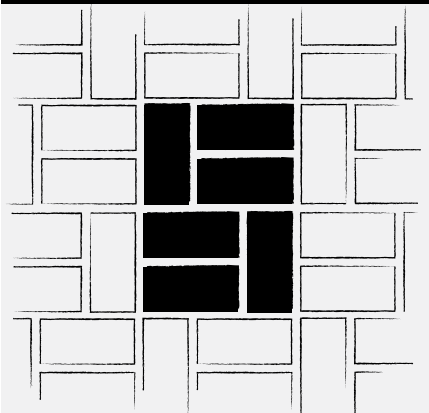
90° HERRINGBONE OR 45° HERRINGBONE



BASKET WEAVE



MODIFIED BASKET WEAVE



For more pattern options visit belgard.com/products/pavers

PALLET INFORMATION / ESTIMATING CHART

AQUA-BRIC

SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	LnFt/ Pallet (Soldier)	LnFt/ Pallet (Sailor)	Units/ Layer	Units/ SqFt	SqFt/ Unit	Weight/ Layer	Weight/ Pallet
94	11.75	8	280	116.67	233.33	35	2.88	.35	387.75 lbs	3102 lbs

NOTES

AQUALINE®

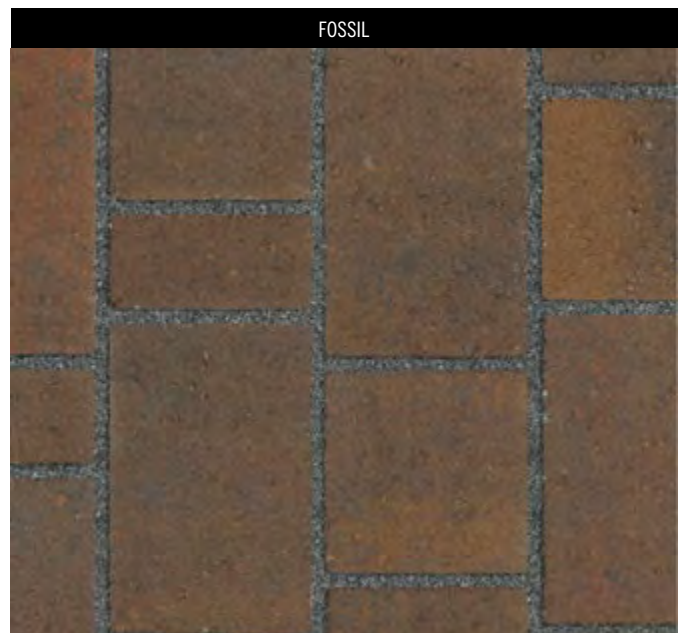
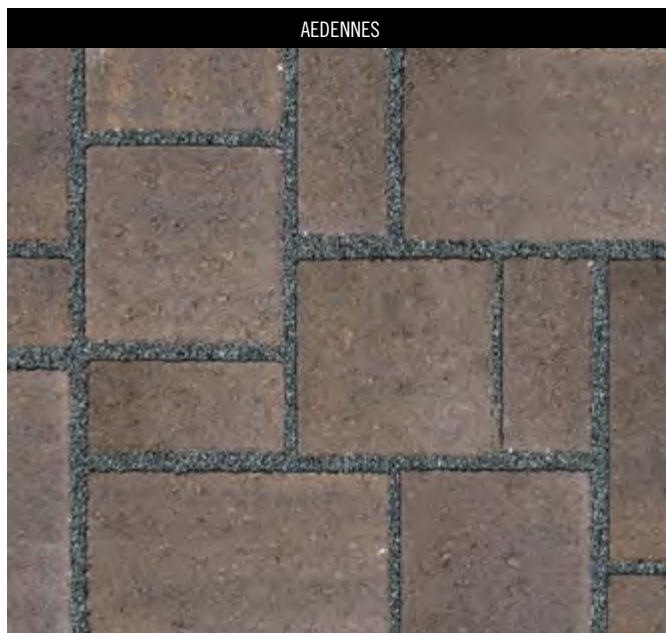
Permeable Paver



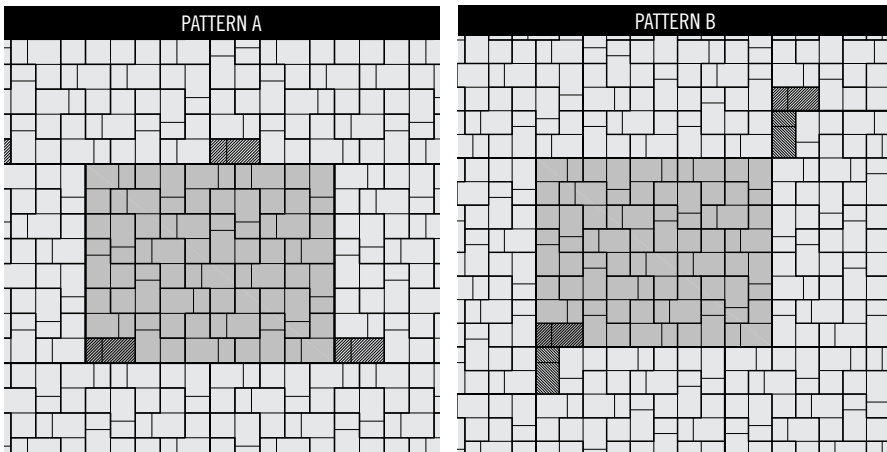
PEDESTRIAN	LIGHT TRAFFIC	REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA	COLORGARD PROCESS	TEXTUREGARD PROCESS	FINISHES	
								GRANITE FINISH	TUMBLLED/ANTIQUED
✓	✓	✓	✓	✓	✓	✓			

PRODUCT SPECIFICATIONS

Ashlar		Rectangle	
4 1/2 x 4 1/2 x 3 1/8		12 x 12 x 2 3/8	
4 1/2 x 9 x 3 1/8		L Shape **Special Order	
9 x 9 x 3 1/8		12 x 12 x 2 3/8	



AQUALINE LAYING GUIDE



For more pattern options visit belgard.com/products/pavers

PALLET INFORMATION / ESTIMATING CHART

AQUALINE ASHLAR											
Product Info	SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	LnFt/ Pallet (Soldier)	LnFt/ Pallet (Sailor)	Units/ Layer	Units/ SqFt	SqFt/ Unit	Weight/ Layer	Weight/ Pallet
4.5 x 4.5	20.30	2.53	-	144	54	54	18	7.11	.141	-	-
4.5 x 9	47.21	5.901	-	168	63	126	21	3.56	.281	-	-
9 x 9	22.48	2.81	-	40	30	30	5	1.77	.562	-	-
Total	90	11.25	8	352	-	-	44	-	-	401.25	3210

AQUALINE RECTANGLE											
SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	LnFt/ Pallet (Soldier)	LnFt/ Pallet (Sailor)	Units/ Layer	Units/ SqFt	SqFt/ Unit	Weight/ Layer	Weight/ Pallet	
90	11.25	8	320	120	240	40	3.55	.281	401.25 lbs	3210 lbs	

AQUALINE L-SHAPE											
SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	LnFt/ Pallet (Soldier)	LnFt/ Pallet (Sailor)	Units/ Layer	Units/ SqFt	SqFt/ Unit	Weight/ Layer	Weight/ Pallet	
90	11.25	8	216	27	-	-	3.37	.422	401.25	3210 lbs	

TURFSTONE®

Concrete Grid Paver



PEDESTRIAN	LIGHT TRAFFIC	REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA	COLORGARD PROCESS	TEXTUREGARD PROCESS	FINISHES	
								GRANITE FINISH	TUMBLED/ANTIQUED
✓	✓			✓		✓			

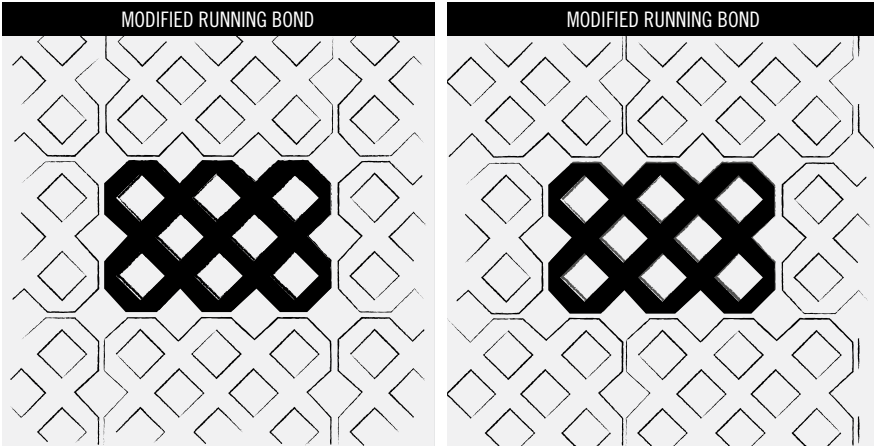
PRODUCT SPECIFICATIONS

Turfstone	
23 1/2 x 15 3/4 x 3 1/8	



NATURAL GREY

TURFSTONE LAYING GUIDE



For more pattern options visit belgard.com/products/pavers

PALLET INFORMATION / ESTIMATING CHART

TURFSTONE

SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	Units/ SqFt	SqFt/ Unit	Weight/ Unit	Weight/ Layer	Weight/ Pallet
128	12.8	10	50	5	.39	2.57	60	300 lbs	3000 lbs

NOTES

Empty space for notes.





PORCELAIN PAVERS

PORCELAIN PAVERS

Belgard® is excited to announce an exclusive new offering being added to the versatile line of outdoor paving materials. Introducing Mirage® Porcelain Pavers, imported exclusively to the United States for Belgard. Mirage delivers authentic Italian-made porcelain pavers that meet the most aggressive durability standards. Porcelain pavers can be used in a variety of applications – from creative walkways, contemporary pool surrounds and gorgeous patio areas.



V1:
Uniform
appearance



V2:
Slight
variation



V3:
Moderate
variation



V4:
Substantial
variation





ARDESIE

STONE FINISH

APPLICATIONS



SHAPES & SIZES

23.54" x 23.54" x 3/4"



African Stone AD 03 NAT



Spacers are recommended for all porcelain paver installations.



Shore AD 01 NAT



Island AD 02 NAT



African Stone AD 03 NAT



Actual size & color may vary. Check with your local provider for availability and pricing.

ESPRIT

STONE FINISH

APPLICATIONS



SHAPES & SIZES

23.54" x 23.54" x 3/4"



Spacers are recommended for all porcelain paver installations.



Crema Delicato EP 01 ST



Pieyra Piasentina EP 02 ST -SPECIAL ORDER



Lagos Grey EP 03 ST



Crema Luna EP 04 ST

Actual size & color may vary. Check with your local provider for availability and pricing.

QUARZITI 2.0

STONE FINISH

APPLICATIONS



SHAPES & SIZES

23.54" x 23.54" x 3/4"



MODULAR* -SPECIAL ORDER



11.73" x 23.54" x 3/4"



*Available colors: QR 02 - QR 03



Spacers are recommended for all porcelain paver installations.



Glacier QR 01 NAT



Mountains QR 02 NAT



Waterfall QR 03 NAT



River QR 04 NAT



Mantle QR 05 NAT

Actual size & color may vary. Check with your local provider for availability and pricing.

STONES 2.0

STONE FINISH

APPLICATIONS



SHAPES & SIZES

23.54" x 23.54" x 3/4"



Pierre Bleue Sablée SO 11 ST



Spacers are recommended for all porcelain paver installations.



Chambrod SO 05 ST



Pierre Bleue SO 10 ST



Pierre Bleue Sablée SO 11 ST-SPECIAL ORDER

Actual size & color may vary. Check with your local provider for availability and pricing.

SUNDECK

WOOD FINISH

APPLICATIONS

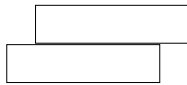


SHAPES & SIZES

23.54" x 23.54" x 3/4"



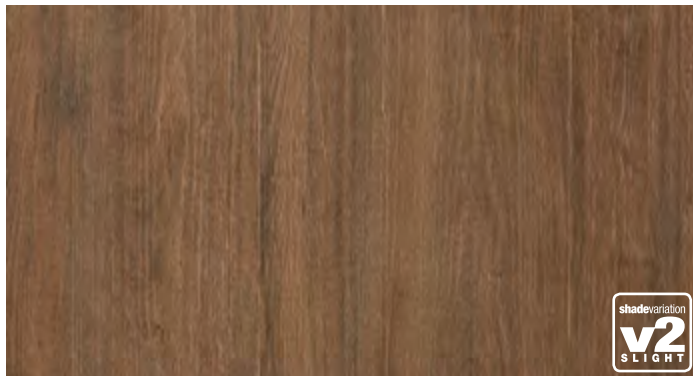
11.73" x 47.17" x 3/4"



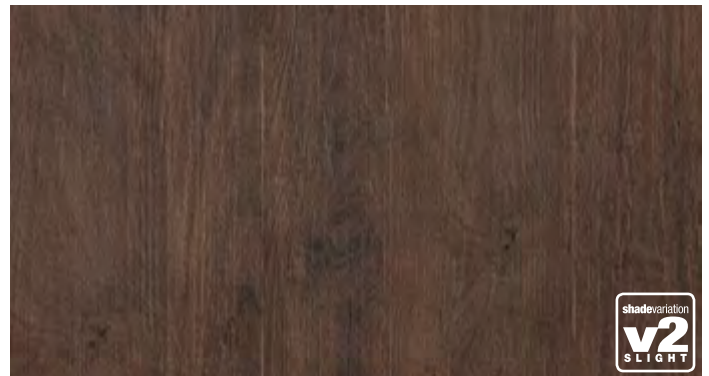
Spirit SD 03 RD



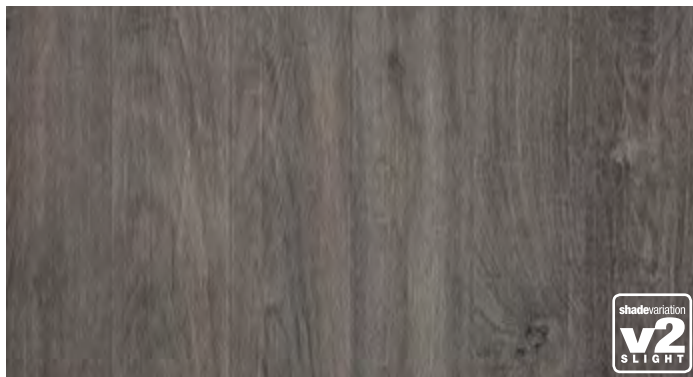
Spacers are recommended for all porcelain paver installations.



Origin SD 01 RD



Classic SD 02 RD



Spirit SD 03 RD



Actual size & color may vary. Check with your local provider for availability and pricing.

UNICO

STEP AND COPING

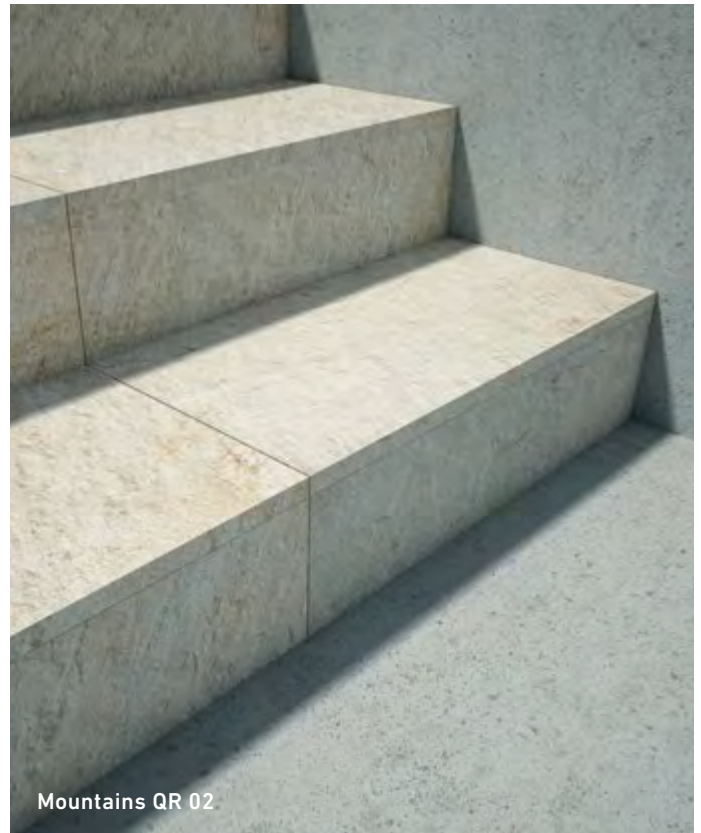
SIZE

12.99 x 23.54 x 3/4

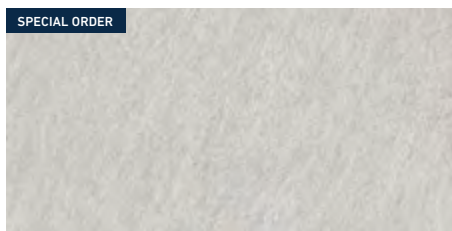
Double sided special trim

Two installation needs, a single solution. UNICO, size 13"x24"x3/4", is processed on both sides, on one side it has a rounded edge and on the other a square edge.

An extremely versatile special piece, which can be used both as a step and as a special piece for swimming pools, with bullnose edge or straight edge, both colored along the side.



Spacers are recommended for all porcelain paver installations.

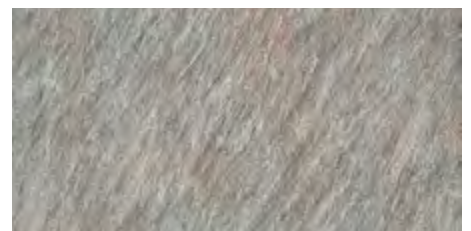


Quartziti 2.0



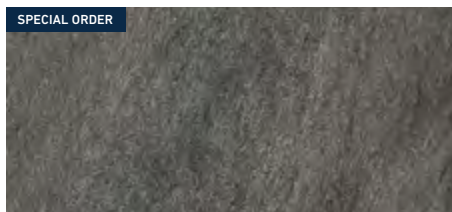
Quartziti 2.0

Mountains QR 02



Quartziti 2.0

Waterfall QR 03



Quartziti 2.0

River QR 04



Quartziti 2.0

Mantle QR 05

Actual color may vary. Check with your local provider for availability and pricing.





WALLS

ANCHOR DIAMOND® 9D

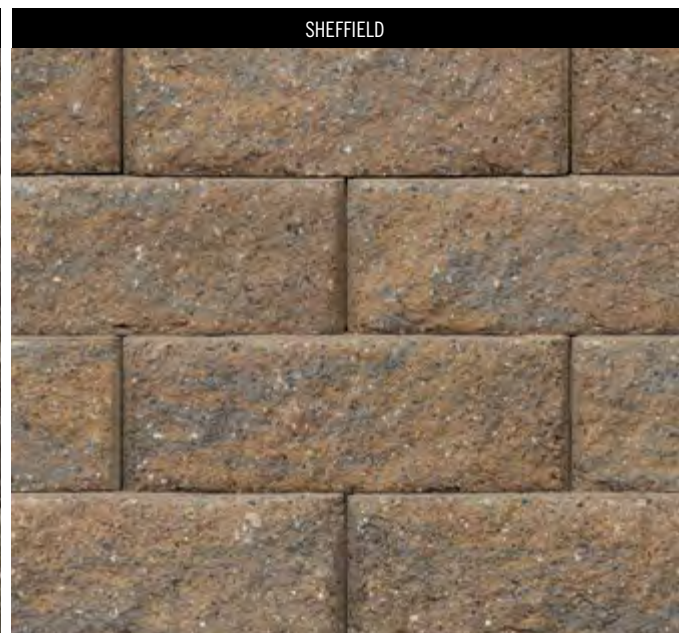
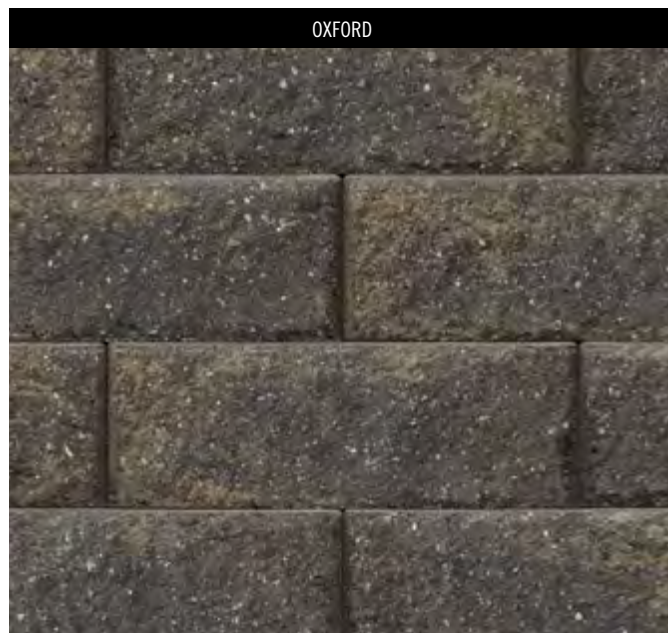
Retaining Wall



RESIDENTIAL	COMMERCIAL	STEPS	COLUMNS	FIREPIT	RETAINING WALLS	FINISHES
						TUMBLED/ ANTIQUED
✓	✓	✓			✓	

PRODUCT SPECIFICATIONS

A	Diamond 9D	B	Diamond Wall Cap	C	Diamond 9D Corner/Column Unit
6 x 17 3/4 x 9		Unit Front Width: 17.25" Unit Back Width: 10.375"		3 x 16 x 9	



For project material estimating, use the formulas listed in each step.

1. WALL UNIT ESTIMATING

Determine the square footage of the total wall, including buried base course. Wall square footage (SF) = length (L) x height (H).

Straight Face: SF x 1.4 = # units

Beveled Face: SF x 1.5 = # units

2. CAP ESTIMATING

Convert wall length (L) to inches: L x 12 = L in inches (LI). Cap factor (CF) = cap front inches + cap back inches ÷ 2. (Additional caps will be needed for elevation changes and curves.)

LI ÷ CF = # caps

3. LEVELING PAD AGGREGATE ESTIMATING

Leveling pad aggregate is a compactible base material of 3/4-inch minus (with fines). The leveling pad extends at least 6 inches in front of and behind the wall units and is at least 6 inches deep after compaction. Wall length in feet (L) ÷ 27 x 1.1 = cubic yards (CY). CY x 1.6 = tons.

L ÷ 27 x 1.1 = CY

CY x 1.6 = tons

4. DRAINAGE AGGREGATE ESTIMATING

Drainage aggregate is clear, 1-inch crushed stone (with no fines). The drainage column extends 12 inches behind the wall units. Wall length (L) x total wall height (H) = square feet (SF) ÷ 27 x 1.1 = cubic yards (CY). CY x 1.6 = tons.

SF ÷ 27 x 1.1 = CY

CY x 1.6 = tons

5. GEOSYNTHETIC REINFORCEMENT ESTIMATING

Choose the appropriate estimating chart based on your project conditions, charts can be found following the Anchor Diamond Pro pages.

PROJECT ESTIMATING EXAMPLE

Total wall is 50 feet long and 4 feet high. The product is beveled-face units. There is no toe or crest slope, and soils are clean sand and gravel.

1. TOTAL WALL UNITS

$50' L \times 4' H = 200 \text{ SF} \times 1.5 = 300 \text{ units}$

2. CAP UNITS

LI example: $50' L \times 12'' = 600$

CF example: $17.25'' + 12'' = 29.25'' \div 2 = 14.6$

Project example: $600 \div 14.6 = 42 \text{ caps}$

3. LEVELING PAD AGGREGATE

$50' L \div 27 = 1.85 \times 1.1 = 2.1 \text{ CY} \times 1.6 = 3.4 \text{ tons needed}$

4. DRAINAGE AGGREGATE

$50' L \times 4' H = 200 \text{ SF} \div 27 \times 1.1 = 8.15 \text{ CY} \times 1.6 = 13 \text{ tons needed}$

5. GEOSYNTHETIC REINFORCEMENT

See reinforcement estimating charts.

For more pattern options visit belgard.com/products/retaining_walls

PALLET INFORMATION / ESTIMATING CHART

DIAMOND 9D

Unit Width	Unit Depth	SqFt/ Pallet	SqFt/ Layer	Units/ Pallet	Layers/ Pallet	Units/ Layer	SqFt/ Unit	Units/ SqFt	Weight/ Layer	Weight/ Pallet
17.75"	9"	44.5	8.9	60	5	12	.74	1.351	660 lbs	3300 lbs

DIAMOND 9D CAP

Unit Front Width	Unit Back Width	Unit Depth	Units/ Pallet	LnFt/ Pallet	Layers/ Pallet	Units/ Layer	LnFt/ Unit	Units/ LnFt	Weight/ Layer	Weight/ Pallet
17.25"	10.375"	9"	80	92.08	10	8	1.151	.868	280 lbs	2800lbs

DIAMOND 9D CORNER

Unit Width	Unit Depth	Unit/ Pallet	Units/ Layer	Layer/ Pallet	Weight/ Layer	Weight/ Pallet
18"	9	50	10	5	780 lbs	3900 lbs

ANCHOR DIAMOND PRO®

Retaining Wall



RESIDENTIAL	COMMERCIAL	STEPS	COLUMNS	FIREPIT	RETAINING WALLS	FINISHES
						TUMBLED/ ANTIQUED
✓	✓	✓			✓	

Please see page 122 for corner units compatible with this product.

PRODUCT SPECIFICATIONS

A	Straight Face	B	Angled Face	C	Cap
8 x 18 x 12		8 x 18 x 12		4 x 18 x 11	



1. WALL UNIT ESTIMATING

Choose the wall unit formula based on the face style.

A. STRAIGHT WALL UNIT ESTIMATING

Determine the square footage of the total wall, including buried course. Square footage (SF) of total wall is length (L) x height (H). If using straight or beveled, skip to step 3.

$SF \times 1 = \# \text{ of units}$

B. EXPOSED WALL UNITS – ESTIMATING STONE CUT™ FACE

Determine the square footage of the exposed wall. Square footage (SF) of exposed wall is length (L) x height (H).

$SF \div 2 = \# \text{ units of each size}$

2. BURIED BASE UNIT ESTIMATING – STONE CUT FACE

Build buried base course using large units. Determine the length (L) of the base in feet.

$L \div 1.5 = \# \text{ large units for buried base}$

3. CAP ESTIMATING

Convert wall length (L) to inches: $L \times 12 = L \text{ in inches (LI)}$. Cap factor (CF) = cap front inches + cap back inches $\div 2$.

$LI \div CF = \# \text{ caps}$

4. LEVELING PAD AGGREGATE ESTIMATING

Leveling pad material is a compactible base material of 3/4-inch minus (with fines). The leveling pad extends at least 6 inches in front of and at least 6 inches behind the wall units and is at least 6 inches deep after compaction. Wall length in feet (L) $\div 27 \times 1.1 =$ cubic yards (CY). $CY \times 1.6 =$ tons.

$L \div 27 \times 1.1 = CY$

$CY \times 1.6 = \text{tons}$

5. DRAINAGE AGGREGATE ESTIMATING

Drainage aggregate is clear 3/4- to 1-inch crushed stone (without fines). The drainage column extends a minimum of 12 inches behind the wall units. Wall length (L) x total wall height (H) = square feet (SF) $\div 16.4 =$ tons.

$SF \div 16.4 = \text{tons}$

6. CORE FILL AGGREGATE ESTIMATING

Calculate the square feet (SF) of the total wall.

$SF \div 35 = \text{tons}$

7. GEOSYNTHETIC REINFORCEMENT ESTIMATING

Choose the appropriate estimating chart based on your project conditions.

Project Estimating Example

The wall is 100 feet long and 8 feet high, including buried course. It is built using the Stone Cut 3-piece system. There is no toe or crest slope, and the soils are clean sand and gravel.

1. EXPOSED WALL UNITS

$100' L \times 7.33' H = 733 SF \div 2 = 367$

large, medium and small Stone Cut units needed

2. BURIED BASE UNITS

$100' L \div 1.5 = 67$

large units for the buried course

TOTAL UNITS REQUIRED

Large units

Wall 367

Base 67

Total 434

Medium units 367

Small units 367

3. CAP UNITS

CF example: $17.25" + 10" = 27.25" \div 2 = 13.7$

L example: $100' \times 12" = 1,200$

Project example: $1,200 \div 13.7 = 88 \text{ caps}$

4. LEVELING PAD AGGREGATE

$100' L \div 27 \times 1.1 = 4.1 CY \times 1.6 = 6.6 \text{ tons}$

5. DRAINAGE AGGREGATE

$800 SF \div 16.4 = 49 \text{ tons}$

6. CORE FILL AGGREGATE

$800 SF \div 35 = 23 \text{ tons}$

7. GEOSYNTHETIC REINFORCEMENT ESTIMATING

Choose the appropriate estimating chart based on your project conditions.

For more pattern options visit belgard.com/products/retaining_walls

PALLET INFORMATION / ESTIMATING CHART

Unit	SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	LnFt/ Pallet	LnFt/ Unit	Units/ SqFt	SqFt/ Unit	Weight/ Unit	Weight/ Pallet
A	45	9	5	45	9	67.5	1.5	1	1	75 lbs	3465 lbs
B	45	9	5	45	9	67.5	1.5	1	1	73 lbs	3330 lbs

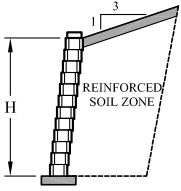
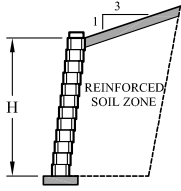
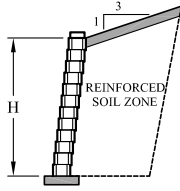
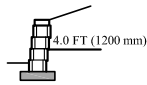
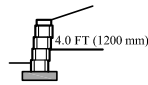
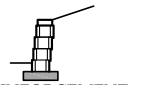
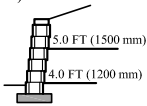
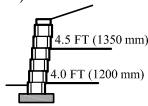
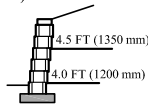
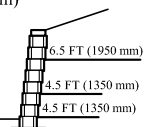
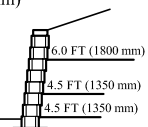
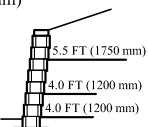
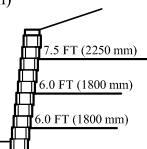
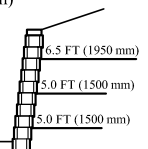
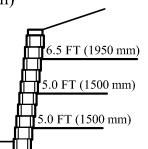
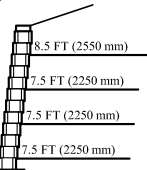
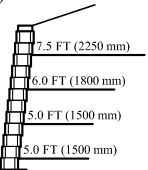
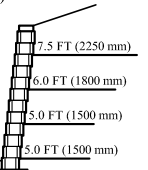
CAP

Unit Width	Unit Depth	Unit/ Pallet	LnFt/ Pallet	Layers/ Pallet	Units/ Layer	LnFt/ Unit	Units/ LnFt	Weight/ Layer	Weight/ Pallet
18"	11"	56	84	7	8	1.5	.667	514 lbs	3598 lbs

Diamond Pro[®] Retaining Wall System

Estimating Chart for Geosynthetic Reinforcement

3:1 Crest Slope

CLAY AND SILT SOIL	SILTY/CLAYEY SAND SOIL	CLEAN SAND AND GRAVEL SOIL
<p>H</p> <p>$\phi = 26^\circ$ $\gamma = 120 \text{ pcf (19 kN/m}^3\text{)}$</p> 	<p>H</p> <p>$\phi = 30^\circ$ $\gamma = 120 \text{ pcf (19 kN/m}^3\text{)}$</p> 	<p>H</p> <p>$\phi = 34^\circ$ $\gamma = 120 \text{ pcf (19 kN/m}^3\text{)}$</p> 
<p>4 Courses 2'-8" (800 mm)</p> 	<p>4 Courses 2'-8" (800 mm)</p> 	<p>4 Courses 2'-8" (800 mm)</p> <p>NO REINFORCEMENT REQUIRED WHEN <4 COURSES</p> 
<p>6 Courses 4'-0" (1200 mm)</p> 	<p>6 Courses 4'-0" (1200 mm)</p> 	<p>6 Courses 4'-0" (1200 mm)</p> 
<p>8 Courses 5'-4" (1600 mm)</p> 	<p>8 Courses 5'-4" (1600 mm)</p> 	<p>8 Courses 5'-4" (1600 mm)</p> 
<p>10 Courses 6'-8" (2000 mm)</p> 	<p>10 Courses 6'-8" (2000 mm)</p> 	<p>10 Courses 6'-8" (2000 mm)</p> 
<p>12 Courses 8'-0" (2400 mm)</p> 	<p>12 Courses 8'-0" (2400 mm)</p> 	<p>12 Courses 8'-0" (2400 mm)</p> 

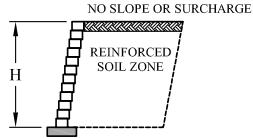
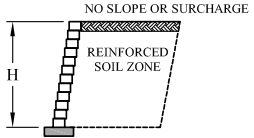
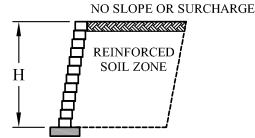



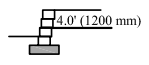


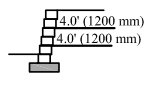
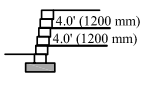

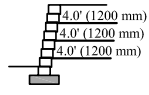
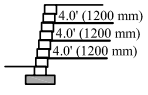
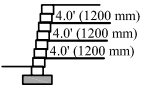
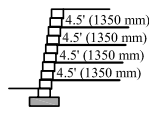
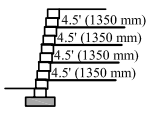
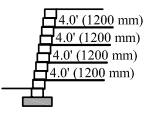
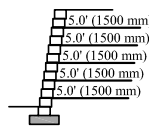
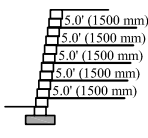
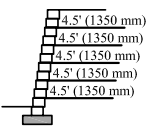
Diamond Pro[®] Retaining Wall System

Estimating Chart for Geosynthetic Reinforcement

250 PSF Surcharge

CLAY AND SILT SOIL H $\phi = 26^\circ$ $\gamma = 120 \text{ pcf} (19 \text{ kN/m}^3)$	SILTY/CLAYEY SAND SOIL H $\phi = 30^\circ$ $\gamma = 120 \text{ pcf} (19 \text{ kN/m}^3)$	CLEAN SAND AND GRAVEL SOIL H $\phi = 34^\circ$ $\gamma = 120 \text{ pcf} (19 \text{ kN/m}^3)$
<p>4 Courses 2'-8" (800 mm)</p>	<p>4 Courses 2'-8" (800 mm)</p>	<p>4 Courses 2'-8" (800 mm)</p>
<p>6 Courses 4'-0" (1200 mm)</p>	<p>6 Courses 4'-0" (1200 mm)</p>	<p>6 Courses 4'-0" (1200 mm)</p>
<p>8 Courses 5'-4" (1600 mm)</p>	<p>8 Courses 5'-4" (1600 mm)</p>	<p>8 Courses 5'-4" (1600 mm)</p>
<p>10 Courses 6'-8" (2000 mm)</p>	<p>10 Courses 6'-8" (2000 mm)</p>	<p>10 Courses 6'-8" (2000 mm)</p>
<p>12 Courses 8'-0" (2400 mm)</p>	<p>12 Courses 8'-0" (2400 mm)</p>	<p>12 Courses 8'-0" (2400 mm)</p>

Diamond[®] 9D Retaining Wall System Estimating Chart for Geosynthetic Reinforcement No Slopes / No Surcharges

CLAY AND SILT SOIL $\phi = 26^\circ$ $\gamma = 120 \text{ pcf (19 kN/m}^3\text{)}$	SILTY/CLAYEY SAND SOIL $\phi = 30^\circ$ $\gamma = 120 \text{ pcf (19 kN/m}^3\text{)}$	CLEAN SAND AND GRAVEL SOIL $\phi = 34^\circ$ $\gamma = 120 \text{ pcf (19 kN/m}^3\text{)}$
 <p>NO SLOPE OR SURCHARGE REINFORCED SOIL ZONE</p>	 <p>NO SLOPE OR SURCHARGE REINFORCED SOIL ZONE</p>	 <p>NO SLOPE OR SURCHARGE REINFORCED SOIL ZONE</p>
<p>Total Height: 1'-0" (300 mm)</p>  <p>NO REINFORCEMENT REQUIRED</p>	<p>Total Height: 1'-0" (300 mm)</p>  <p>NO REINFORCEMENT REQUIRED</p>	<p>Total Height: 1'-0" (300 mm)</p>  <p>NO REINFORCEMENT REQUIRED</p>
<p>Total Height: 2'-0" (600 mm)</p>  <p>4.0' (1200 mm)</p>	<p>Total Height: 2'-0" (600 mm)</p>  <p>NO REINFORCEMENT REQUIRED</p>	<p>Total Height: 2'-0" (600 mm)</p>  <p>NO REINFORCEMENT REQUIRED</p>
<p>Total Height: 3'-0" (900 mm)</p>  <p>4.0' (1200 mm) 4.0' (1200 mm)</p>	<p>Total Height: 3'-0" (900 mm)</p>  <p>4.0' (1200 mm) 4.0' (1200 mm)</p>	<p>Total Height: 3'-0" (900 mm)</p>  <p>NO REINFORCEMENT REQUIRED</p>
<p>Total Height: 4'-0" (1200 mm)</p>  <p>4.0' (1200 mm) 4.0' (1200 mm) 4.0' (1200 mm)</p>	<p>Total Height: 4'-0" (1200 mm)</p>  <p>4.0' (1200 mm) 4.0' (1200 mm) 4.0' (1200 mm)</p>	<p>Total Height: 4'-0" (1200 mm)</p>  <p>4.0' (1200 mm) 4.0' (1200 mm) 4.0' (1200 mm)</p>
<p>Total Height: 5'-0" (1500 mm)</p>  <p>4.5' (1350 mm) 4.5' (1350 mm) 4.5' (1350 mm) 4.5' (1350 mm)</p>	<p>Total Height: 5'-0" (1500 mm)</p>  <p>4.5' (1350 mm) 4.5' (1350 mm) 4.5' (1350 mm) 4.5' (1350 mm)</p>	<p>Total Height: 5'-0" (1500 mm)</p>  <p>4.0' (1200 mm) 4.0' (1200 mm) 4.0' (1200 mm) 4.0' (1200 mm)</p>
<p>Total Height: 6'-0" (1800 mm)</p>  <p>5.0' (1500 mm) 5.0' (1500 mm) 5.0' (1500 mm) 5.0' (1500 mm) 5.0' (1500 mm)</p>	<p>Total Height: 6'-0" (1800 mm)</p>  <p>5.0' (1500 mm) 5.0' (1500 mm) 5.0' (1500 mm) 5.0' (1500 mm) 5.0' (1500 mm)</p>	<p>Total Height: 6'-0" (1800 mm)</p>  <p>4.5' (1350 mm) 4.5' (1350 mm) 4.5' (1350 mm) 4.5' (1350 mm) 4.5' (1350 mm)</p>

Diamond Pro® Retaining Wall System Estimating Chart for Multistack Walls 3:1 Crest Slope

CLAY AND SILT SOIL $\phi = 26^\circ$ $\gamma = 120 \text{ pcf} (19 \text{ kN/m}^3)$	SILTY/CLAYEY SAND SOIL $\phi = 30^\circ$ $\gamma = 120 \text{ pcf} (19 \text{ kN/m}^3)$	CLEAN SAND AND GRAVEL SOIL $\phi = 34^\circ$ $\gamma = 120 \text{ pcf} (19 \text{ kN/m}^3)$
4 Courses 2'-8" (800 mm) 4-1-0	4 Courses 2'-8" (800 mm) MULTISTACK NOT REQUIRED	4 Courses 2'-8" (800 mm) MULTISTACK NOT REQUIRED
6 Courses 4'-0" (1200 mm) 6-4-0	6 Courses 4'-0" (1200 mm) 6-3-0	6 Courses 4'-0" (1200 mm) 6-2-0
8 Courses 5'-4" (1600 mm) 8-6-3	8 Courses 5'-4" (1600 mm) 8-4-2	8 Courses 5'-4" (1600 mm) 8-5-0
10 Courses 6'-8" (2000 mm) 10-9-7	10 Courses 6'-8" (2000 mm) 10-7-5	10 Courses 6'-8" (2000 mm) 10-7-3
12 Courses 8'-0" (2400 mm) N/A	12 Courses 8'-0" (2400 mm) 12-11-9	12 Courses 8'-0" (2400 mm) 12-9-7

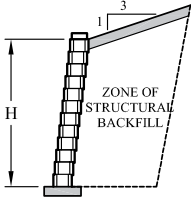
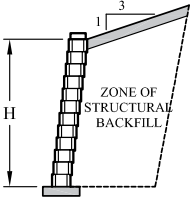
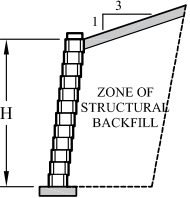
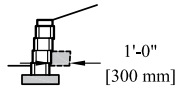


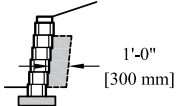
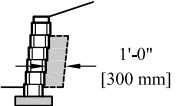
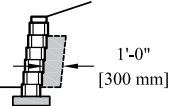
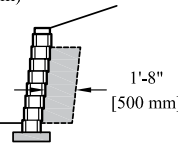
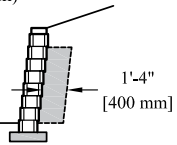
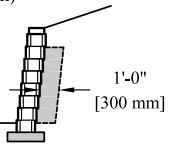
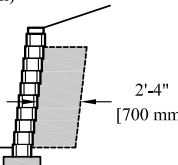
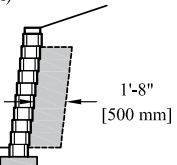
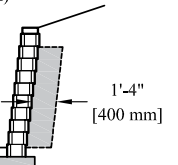
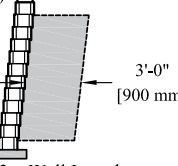
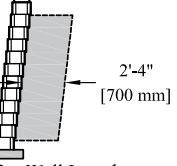
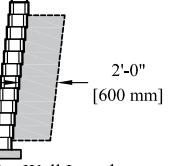
Diamond Pro® Retaining Wall System Estimating Chart for Multistack Walls 250 PSF Surcharge

CLAY AND SILT SOIL $\phi = 26^\circ$ $\gamma = 120 \text{ pcf (19 kN/m}^3\text{)}$	SILTY/CLAYEY SAND SOIL $\phi = 30^\circ$ $\gamma = 120 \text{ pcf (19 kN/m}^3\text{)}$	CLEAN SAND AND GRAVEL SOIL $\phi = 34^\circ$ $\gamma = 120 \text{ pcf (19 kN/m}^3\text{)}$
4 Courses 2'-8" (800 mm) 4-3-0	4 Courses 2'-8" (800 mm) 4-2-0	4 Courses 2'-8" (800 mm) 4-2-0
6 Courses 4'-0" (1200 mm) 6-5-3	6 Courses 4'-0" (1200 mm) 6-4-2	6 Courses 4'-0" (1200 mm) 6-4-2
8 Courses 5'-4" (1600 mm) 8-7-6	8 Courses 5'-4" (1600 mm) 8-6-5	8 Courses 5'-4" (1600 mm) 8-6-3
10 Courses 6'-8" (2000 mm) N/A	10 Courses 6'-8" (2000 mm) 10-9-9	10 Courses 6'-8" (2000 mm) 10-9-8
12 Courses 8'-0" (2400 mm) N/A	12 Courses 8'-0" (2400 mm) N/A	12 Courses 8'-0" (2400 mm) 12-11-11

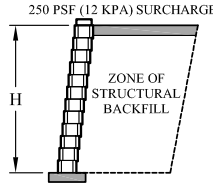
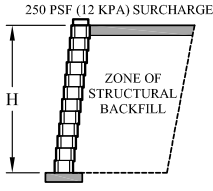
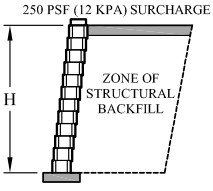
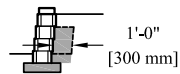
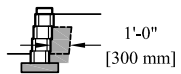
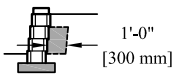
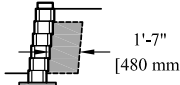
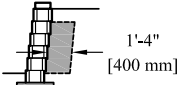
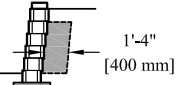
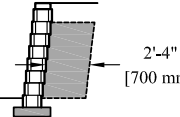
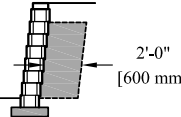
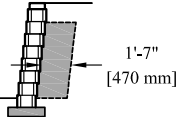
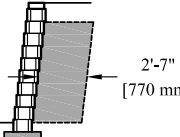
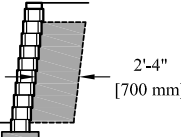
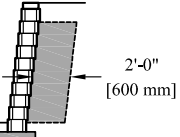
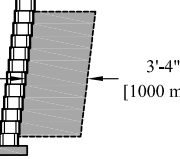
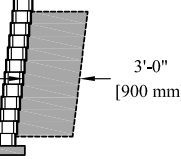
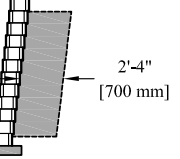
Diamond Pro® Retaining Wall System Estimating Chart for Multistack Walls No Slopes / No Surcharges

CLAY AND SILT SOIL H $\phi = 26^\circ$ $\gamma = 120 \text{ pcf } (19 \text{ kN/m}^3)$	SILTY/CLAYEY SAND SOIL H $\phi = 30^\circ$ $\gamma = 120 \text{ pcf } (19 \text{ kN/m}^3)$	CLEAN SAND AND GRAVEL SOIL H $\phi = 34^\circ$ $\gamma = 120 \text{ pcf } (19 \text{ kN/m}^3)$
<p>4 Courses 2'-8" (800 mm)</p>	<p>4 Courses 2'-8" (800 mm)</p>	<p>4 Courses 2'-8" (800 mm)</p>
<p>6 Courses 4'-0" (1200 mm)</p>	<p>6 Courses 4'-0" (1200 mm)</p>	<p>6 Courses 4'-0" (1200 mm)</p>
<p>8 Courses 5'-4" (1600 mm)</p>	<p>8 Courses 5'-4" (1600 mm)</p>	<p>8 Courses 5'-4" (1600 mm)</p>
<p>10 Courses 6'-8" (2000 mm)</p>	<p>10 Courses 6'-8" (2000 mm)</p>	<p>10 Courses 6'-8" (2000 mm)</p>
<p>12 Courses 8'-0" (2400 mm)</p>	<p>12 Courses 8'-0" (2400 mm)</p>	<p>12 Courses 8'-0" (2400 mm)</p>

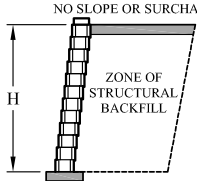
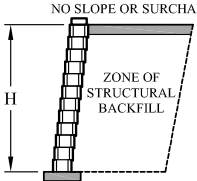
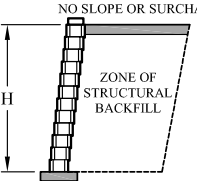



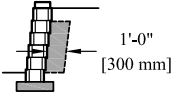
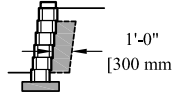
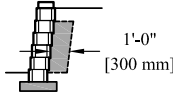
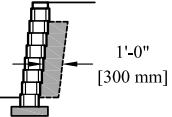
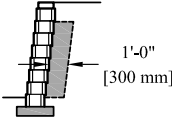
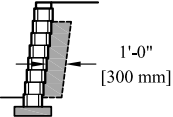
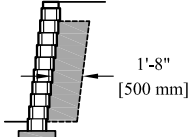
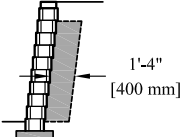
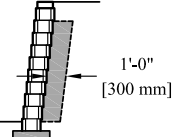
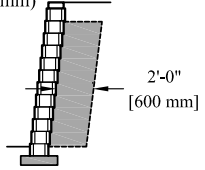
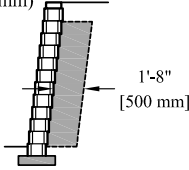
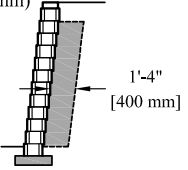
Estimating Chart for Structural Backfill 3:1 Crest Slope

CLAY AND SILT SOIL H $\phi = 26^\circ$ $\gamma = 120 \text{ pcf } (19 \text{ kN/m}^3)$	SILTY/CLAYEY SAND SOIL H $\phi = 30^\circ$ $\gamma = 120 \text{ pcf } (19 \text{ kN/m}^3)$	CLEAN SAND AND GRAVEL SOIL H $\phi = 34^\circ$ $\gamma = 120 \text{ pcf } (19 \text{ kN/m}^3)$
		
<p>4 Courses 2'-8" (800 mm)</p>  <p>0.15 x Wall Length = CY of Structural Backfill</p>	<p>4 Courses 2'-8" (800 mm)</p>  <p>STRUCTURAL BACKFILL NOT REQUIRED</p>	<p>4 Courses 2'-8" (800 mm)</p>  <p>STRUCTURAL BACKFILL NOT REQUIRED</p>
<p>6 Courses 4'-0" (1200 mm)</p>  <p>0.22 x Wall Length = CY of Structural Backfill</p>	<p>6 Courses 4'-0" (1200 mm)</p>  <p>0.22 x Wall Length = CY of Structural Backfill</p>	<p>6 Courses 4'-0" (1200 mm)</p>  <p>0.22 x Wall Length = CY of Structural Backfill</p>
<p>8 Courses 5'-4" (1600 mm)</p>  <p>0.42 x Wall Length = CY of Structural Backfill</p>	<p>8 Courses 5'-4" (1600 mm)</p>  <p>0.36 x Wall Length = CY of Structural Backfill</p>	<p>8 Courses 5'-4" (1600 mm)</p>  <p>0.29 x Wall Length = CY of Structural Backfill</p>
<p>10 Courses 6'-8" (2000 mm)</p>  <p>0.69 x Wall Length = CY of Structural Backfill</p>	<p>10 Courses 6'-8" (2000 mm)</p>  <p>0.53 x Wall Length = CY of Structural Backfill</p>	<p>10 Courses 6'-8" (2000 mm)</p>  <p>0.45 x Wall Length = CY of Structural Backfill</p>
<p>12 Courses 8'-0" (2400 mm)</p>  <p>1.03 x Wall Length = CY of Structural Backfill</p>	<p>12 Courses 8'-0" (2400 mm)</p>  <p>0.83 x Wall Length = CY of Structural Backfill</p>	<p>12 Courses 8'-0" (2400 mm)</p>  <p>0.73 x Wall Length = CY of Structural Backfill</p>

Estimating Chart for Structural Backfill 250 PSF Surcharge

CLAY AND SILT SOIL H $\phi = 26^\circ$ $\gamma = 120 \text{ pcf (19 kN/m}^3\text{)}$	SILTY/CLAYEY SAND SOIL H $\phi = 30^\circ$ $\gamma = 120 \text{ pcf (19 kN/m}^3\text{)}$	CLEAN SAND AND GRAVEL SOIL H $\phi = 34^\circ$ $\gamma = 120 \text{ pcf (19 kN/m}^3\text{)}$
 <p>250 PSF (12 KPA) SURCHARGE</p> <p>ZONE OF STRUCTURAL BACKFILL</p>	 <p>250 PSF (12 KPA) SURCHARGE</p> <p>ZONE OF STRUCTURAL BACKFILL</p>	 <p>250 PSF (12 KPA) SURCHARGE</p> <p>ZONE OF STRUCTURAL BACKFILL</p>
<p>4 Courses 2'-8" (800 mm)</p>  <p>1'-0" [300 mm]</p> <p>0.15 x Wall Length = CY of Structural Backfill</p>	<p>4 Courses 2'-8" (800 mm)</p>  <p>1'-0" [300 mm]</p> <p>0.15 x Wall Length = CY of Structural Backfill</p>	<p>4 Courses 2'-8" (800 mm)</p>  <p>1'-0" [300 mm]</p> <p>0.15 x Wall Length = CY of Structural Backfill</p>
<p>6 Courses 4'-0" (1200 mm)</p>  <p>1'-7" [480 mm]</p> <p>0.31 x Wall Length = CY of Structural Backfill</p>	<p>6 Courses 4'-0" (1200 mm)</p>  <p>1'-4" [400 mm]</p> <p>0.27 x Wall Length = CY of Structural Backfill</p>	<p>6 Courses 4'-0" (1200 mm)</p>  <p>1'-4" [400 mm]</p> <p>0.27 x Wall Length = CY of Structural Backfill</p>
<p>8 Courses 5'-4" (1600 mm)</p>  <p>2'-4" [700 mm]</p> <p>0.55 x Wall Length = CY of Structural Backfill</p>	<p>8 Courses 5'-4" (1600 mm)</p>  <p>2'-0" [600 mm]</p> <p>0.49 x Wall Length = CY of Structural Backfill</p>	<p>8 Courses 5'-4" (1600 mm)</p>  <p>1'-7" [470 mm]</p> <p>0.41 x Wall Length = CY of Structural Backfill</p>
<p>10 Courses 6'-8" (2000 mm)</p>  <p>2'-7" [770 mm]</p> <p>0.76 x Wall Length = CY of Structural Backfill</p>	<p>10 Courses 6'-8" (2000 mm)</p>  <p>2'-4" [700 mm]</p> <p>0.69 x Wall Length = CY of Structural Backfill</p>	<p>10 Courses 6'-8" (2000 mm)</p>  <p>2'-0" [600 mm]</p> <p>0.61 x Wall Length = CY of Structural Backfill</p>
<p>12 Courses 8'-0" (2400 mm)</p>  <p>3'-4" [1000 mm]</p> <p>1.13 x Wall Length = CY of Structural Backfill</p>	<p>12 Courses 8'-0" (2400 mm)</p>  <p>3'-0" [900 mm]</p> <p>1.03 x Wall Length = CY of Structural Backfill</p>	<p>12 Courses 8'-0" (2400 mm)</p>  <p>2'-4" [700 mm]</p> <p>0.83 x Wall Length = CY of Structural Backfill</p>

Estimating Chart for Structural Backfill No Slopes / No Surcharges

CLAY AND SILT SOIL H $\phi = 26^\circ$ $\gamma = 120 \text{ pcf (19 kN/m}^3\text{)}$	SILTY/CLAYEY SAND SOIL H $\phi = 30^\circ$ $\gamma = 120 \text{ pcf (19 kN/m}^3\text{)}$	CLEAN SAND AND GRAVEL SOIL H $\phi = 34^\circ$ $\gamma = 120 \text{ pcf (19 kN/m}^3\text{)}$
		
<p>4 Courses 2'-8" (800 mm)</p>  <p>STRUCTURAL BACKFILL NOT REQUIRED</p>	<p>4 Courses 2'-8" (800 mm)</p>  <p>STRUCTURAL BACKFILL NOT REQUIRED</p>	<p>4 Courses 2'-8" (800 mm)</p>  <p>STRUCTURAL BACKFILL NOT REQUIRED</p>
<p>6 Courses 4'-0" (1200 mm)</p>  <p>1'-0" [300 mm]</p> <p>0.22 x Wall Length = CY of Structural Backfill</p>	<p>6 Courses 4'-0" (1200 mm)</p>  <p>1'-0" [300 mm]</p> <p>0.22 x Wall Length = CY of Structural Backfill</p>	<p>6 Courses 4'-0" (1200 mm)</p>  <p>1'-0" [300 mm]</p> <p>0.22 x Wall Length = CY of Structural Backfill</p>
<p>8 Courses 5'-4" (1600 mm)</p>  <p>1'-0" [300 mm]</p> <p>0.29 x Wall Length = CY of Structural Backfill</p>	<p>8 Courses 5'-4" (1600 mm)</p>  <p>1'-0" [300 mm]</p> <p>0.29 x Wall Length = CY of Structural Backfill</p>	<p>8 Courses 5'-4" (1600 mm)</p>  <p>1'-0" [300 mm]</p> <p>0.29 x Wall Length = CY of Structural Backfill</p>
<p>10 Courses 6'-8" (2000 mm)</p>  <p>1'-8" [500 mm]</p> <p>0.53 x Wall Length = CY of Structural Backfill</p>	<p>10 Courses 6'-8" (2000 mm)</p>  <p>1'-4" [400 mm]</p> <p>0.45 x Wall Length = CY of Structural Backfill</p>	<p>10 Courses 6'-8" (2000 mm)</p>  <p>1'-0" [300 mm]</p> <p>0.37 x Wall Length = CY of Structural Backfill</p>
<p>12 Courses 8'-0" (2400 mm)</p>  <p>2'-0" [600 mm]</p> <p>0.73 x Wall Length = CY of Structural Backfill</p>	<p>12 Courses 8'-0" (2400 mm)</p>  <p>1'-8" [500 mm]</p> <p>0.64 x Wall Length = CY of Structural Backfill</p>	<p>12 Courses 8'-0" (2400 mm)</p>  <p>1'-4" [400 mm]</p> <p>0.54 x Wall Length = CY of Structural Backfill</p>

NOTES

For more pattern options visit belgard.com/products/retaining_walls

BELAIR WALL®

Freestanding & Retaining Wall



RESIDENTIAL	COMMERCIAL	STEPS	COLUMNS	FIREPIT	RETAINING WALLS	FINISHES
						TUMBLED/ ANTIQUED
✓	✓	✓	✓	✓	✓	

PRODUCT SPECIFICATIONS

A	6" Retaining Wall	
6 x 8 x 8		
6 x 16 x 8		
B	6" Freestanding Wall	
6 x 8 / 6 x 11		
6 x 16 / 14 x 11		
C	Corner / Column	
6 x 16 x 8		
D	Cap	
3 x 7 / 8 x 13 1/2		



PALLET INFORMATION / ESTIMATING CHART

6" RETAINING WALL

Unit	SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Unit Weight	SqFt/ Unit	Weight/ Layer	Weight/ Pallet
Square	9.9	3.3	-	30	26 lbs	.33	-	-
Rectangle	20.1	6.7	-	30	52 lbs	.67	-	-
Total	30	10	3	60	-	-	798 lbs	2394 lbs

6" FREESTANDING WALL

Unit	SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Unit Weight	SqFt/ Unit	Weight/ Layer	Weight/ Pallet
Square	5.94	1.98	-	18	13 lbs	.33	-	-
Rectangle	12.06	4.02	-	18	25 lbs	.67	-	-
Total	18	6	3	36	-	-	582 lbs	1746 lbs

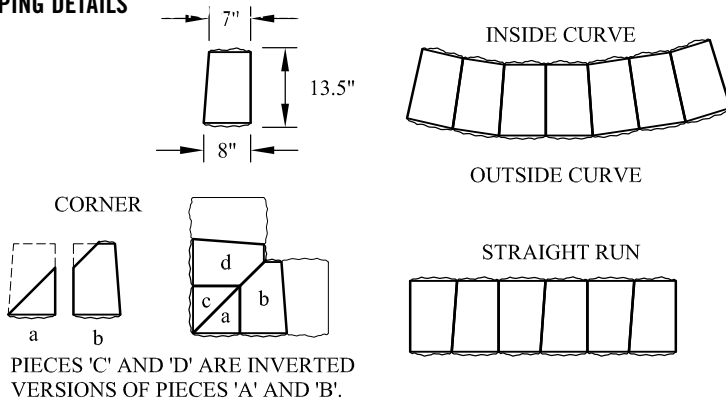
CORNER/COLUMN

SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	LnFt/ Pallet	LnFt/ Unit	Unit Weight	Weight/ Pallet
-	-	2	20	10	-	-	67 lbs	1,300 lbs

CAP

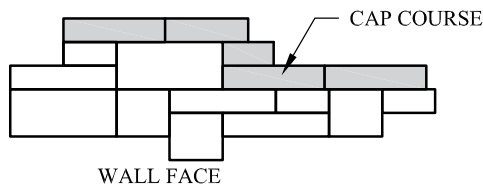
SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	LnFt/ Pallet	LnFt/ Unit	Unit Weight	Weight/ Pallet
-	-	8	144	18	90	.625	22 lbs	3348 lbs

CAPPING DETAILS



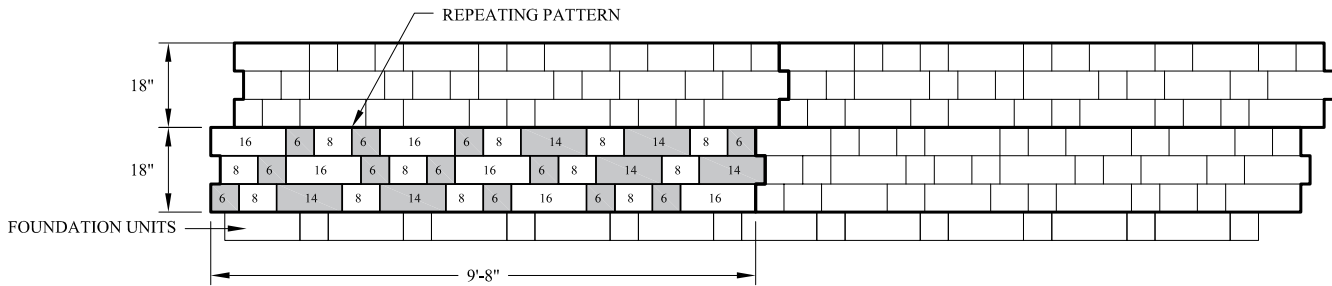
NOTES:

1. Always start capping wall from the lowest elevation.
2. Lay out caps prior to using adhesive.
3. Cut caps to fit. Occasional cutting will be necessary for RADII other than appx. 7.5 FT.
4. Alternate the layout of short and long cap faces to every other cap, so to achieve a straight row of caps.
5. Use exterior-grade construction adhesive to secure caps.



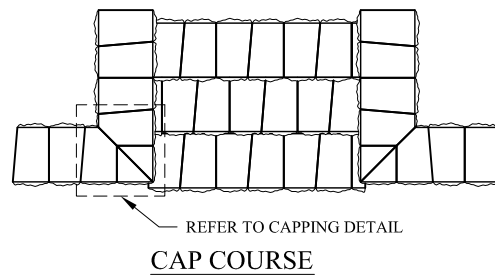
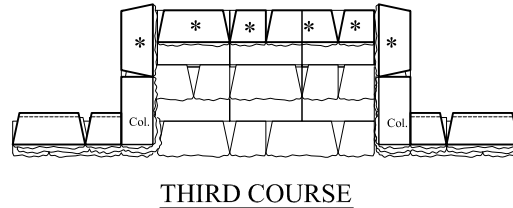
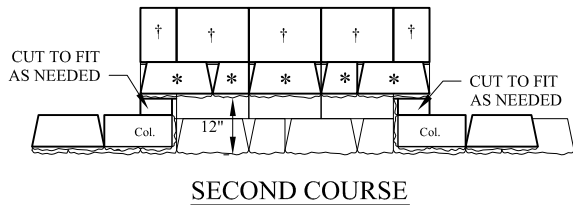
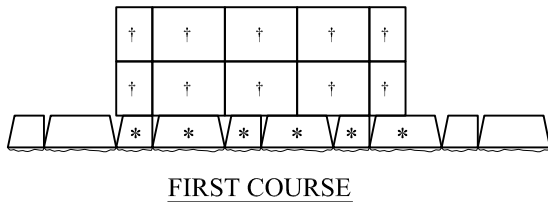
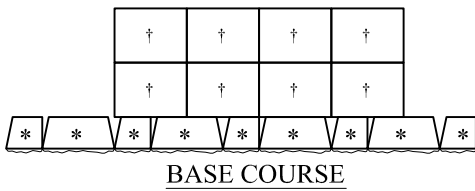
18-INCH BY 9-FOOT, 8-INCH FREESTANDING WALL PATTERN USING 6" UNITS ONLY

This illustrates an 18-inch-high by 9-foot, 8-inch-long repeating pattern.

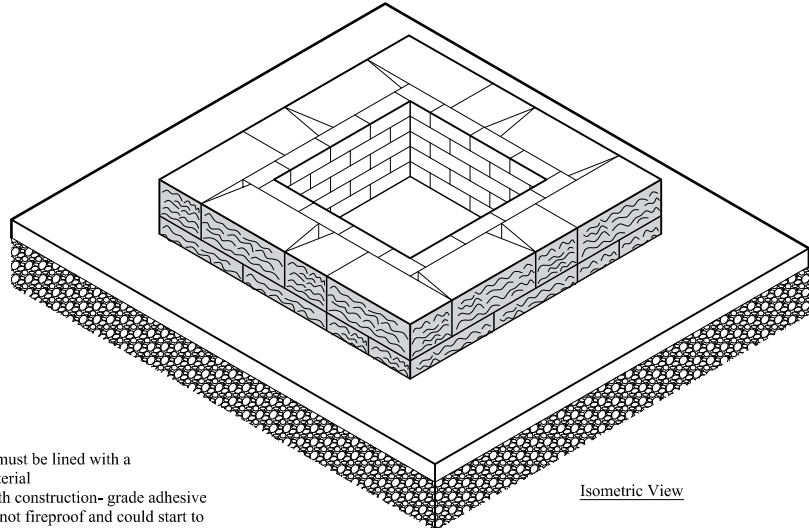
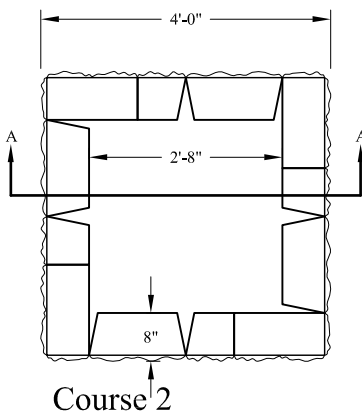
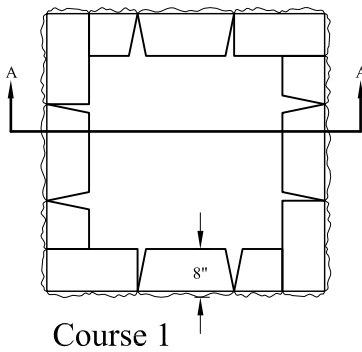


RETAINING WALL STAIR CONSTRUCTION

* = REMOVE REAR LIPS FROM THESE UNITS
 † = DENOTES 6" HIGH DUMMY BLOCK

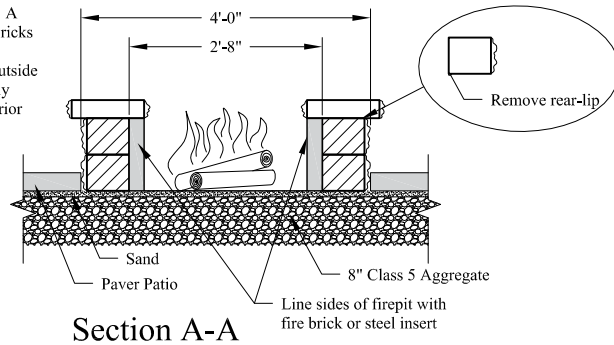


RETAINING WALL SQUARE FIRE PIT CONSTRUCTION

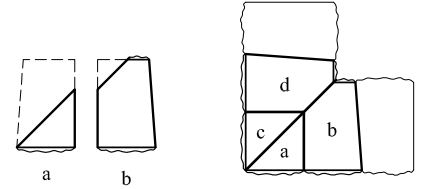
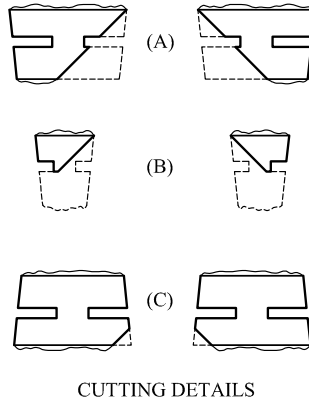
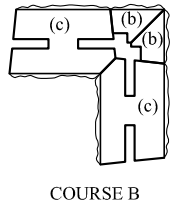
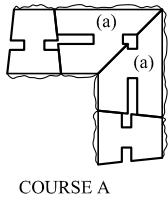


1. Notes:
- 1) Inside of fire pit must be lined with a heat-resistant material
 - 2) Affix all units with construction-grade adhesive
 - 3) These blocks are not fireproof and could start to crack under extreme heat. These blocks are intended for landscape applications and are not fire-rated. Over time the blocks may crack. A possible solution is to use heavy fire-rated bricks or a steel liner on the interior of an above or below ground fire ring/pit with the blocks outside the perimeter. Again, the heat may adversely affect landscape products, even with an interior heat-resistant barrier in place.

Piece Counts:	
Column/Corner	8
6x16x8	8
6x8x8	8



FREESTANDING 90-DEGREE CORNER CONSTRUCTION



NOTES:

1. Repeat courses A and B to full height of wall.
2. Affix all partial units using construction grade adhesive.

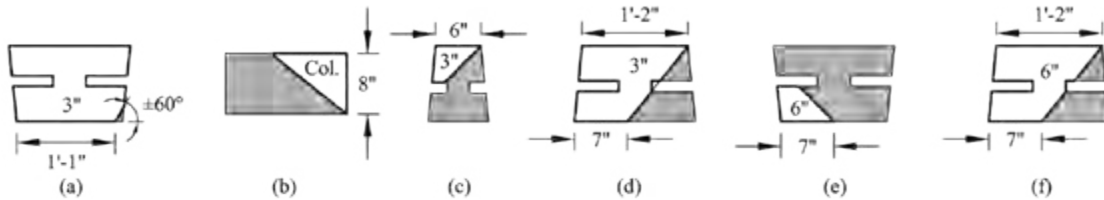
FREESTANDING WALL - ENDING WALL WITHOUT A COLUMN

For the best possible appearance, it is recommended that the BelAir Freestanding Wall always end into a BelAir column when ending a Freestanding Wall. If a column is not possible, the detail shown below explains how to create a 3 sided BelAir textured unit to end the wall. This process entails precise cutting and time consuming labor to achieve the desired results.

NOTES:

1. Remove locators as needed.
2. Affix all partial units to adjacent units using exterior-grade construction adhesive.
3. All dimensions shown are to contact points. Verify prior to construction.
4. Caps are not shown for clarity.
5. Construct base course using 6" tall units.

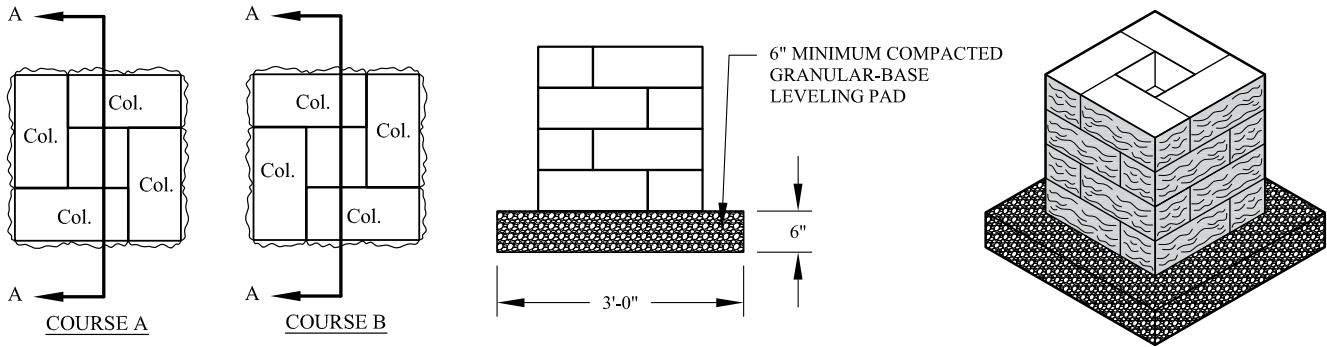
CUTTING DETAILS



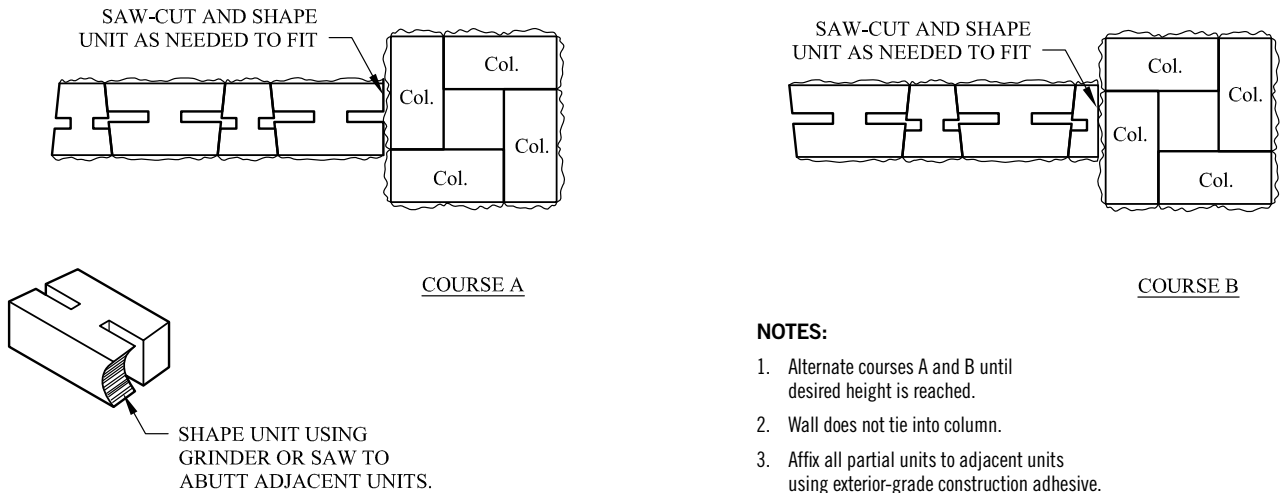
COURSE DETAILS - PLAN VIEW



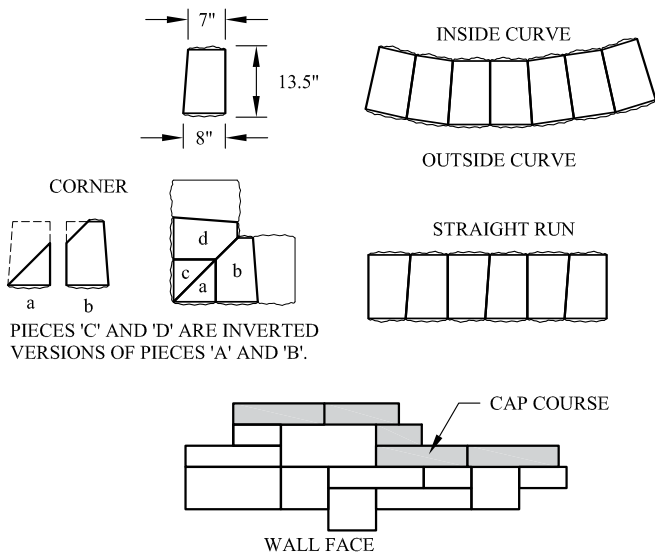
FREESTANDING WALL - COLUMN CONSTRUCTION



FREESTANDING WALL - COLUMN AT END OF WALL



CAPPING DETAILS



BELAIR RETAINING WALL SYSTEM

For project material estimating, use the formulas listed in each step.

1. EXPOSED WALL UNIT ESTIMATING

Determine the square footage of the exposed wall:

Exposed wall length (L) x height (H) = square feet (SF).

SF + 1.5 = # pieces of each unit

2. BURIED BASE UNIT ESTIMATING

Build buried base course using 6" x 16" and

6" x 8" units. Determine the length (L) of the base in feet.

L + 2 = # pieces each 6" unit

3. CAP ESTIMATING

Convert wall length (L) to inches: L x 12 = L in inches (LI).

For curved walls, add 10%.

LI + 7.5 = # caps

4. LEVELING PAD AGGREGATE ESTIMATING

Leveling pad aggregate is a compactible base material of 3/4-inch minus (with fines). The leveling pad is a minimum of 6 inches in front of and behind the wall units and 6 inches deep after compaction. Use wall length (L) in feet. (Assumes 24-inch-wide trench.)

L + 27 x 1.1 = CY

CY x 1.6 = tons

5. DRAINAGE AGGREGATE ESTIMATING

Drainage aggregate is clear 1-inch crushed stone (with no fines).

The drainage column extends 12 inches behind the wall units.

Wall length (L) in feet x total wall height (H) in feet to determine square feet (SF).

SF + 27 x 1.1 = CY

CY x 1.6 = tons

6. Geosynthetic Reinforcement Estimating

See reinforcement estimating charts on pages 84-88

250 Surcharge, No Slopes | No Surcharges or Multistack walls 3:1

Crest Slope.

NOTES

For more pattern options visit belgard.com/products/retaining_walls

BELAIR FREESTANDING WALL SYSTEM

For project material estimating, use the formulas listed in each step.

1. EXPOSED WALL UNIT ESTIMATING**Straight Walls**

Determine the square footage of the exposed wall. Exposed wall length (L) x height (H) = square feet (SF).

$SF \div 1.8 = \# \text{ pieces of each 6-inch-high unit}$

$\#6" \text{ units} \times 2 = \# \text{ pieces of each 3-inch-high unit}$

Curved Walls

Determine the square footage of the exposed wall: When estimating, measure the largest wall face. Exposed wall length (L) x height (H) = square feet (SF)

$SF \div 1.6 = \# \text{ pieces of each 6-inch-high unit}$

$\#6" \text{ units} \times 2 = \# \text{ pieces of each 3-inch-high unit}$

2. BURIED BASE UNIT ESTIMATING

Build buried base course using 6" x 16" and 6" x 8" units.

Determine the length (L) of the base in feet.

$L \div 1.8 = \# \text{ pieces each 6" unit}$

Add 10% for curves.

3. COLUMN ESTIMATING

Estimate the quantity needed for a column by multiplying the height (H) in feet, including buried course, x 8.

$H \times 8 = \# \text{ units per column}$

4. CAP ESTIMATING

Convert wall length (L) to inches: $L \times 12 = L \text{ inches (LI)}$. For curved wall, add 10%.

$LI \div 7.5 = \# \text{ caps}$

5. WALL LEVELING PAD AGGREGATE ESTIMATING

Leveling pad aggregate is a compactible base material of 3/4-inch minus (with fines). The leveling pad is a minimum of 6 inches in front of and behind the wall units and 6 inches deep after compaction. Use wall length (L) in feet to determine cubic yards (CY) (Assumes 24-inch-wide trench)

$L \div 27 \times 1.1 = CY$

$CY \times 1.6 = \text{tons}$

6. COLUMN LEVELING PAD AGGREGATE

The leveling pad for a 24- x 24-inch column or pilaster is 36 inches square and at least 6 inches deep after compaction. Use leveling pad length (L) x width (W) x depth (D) in inches to calculate cubic yards (CY).

$(L \times W \times D) \div 27 \times 1.1 = CY$

$CY \times 1.6 \times \# \text{ columns} = \text{tons}$

NOTES

For more pattern options visit belgard.com/products/retaining_walls

CELTIK® WALL

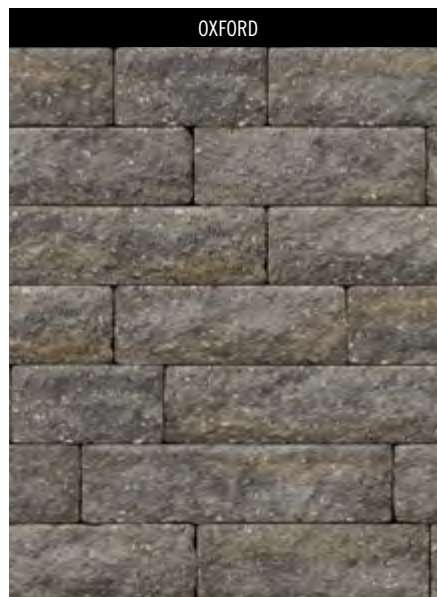
Retaining Wall



RESIDENTIAL	COMMERCIAL	STEPS	COLUMNS	FIREPIT	RETAINING WALLS	FINISHES
						TUMBLED/ ANTIQUED
✓		✓	✓	✓	✓	

PRODUCT SPECIFICATIONS

A 90mm SRW		B 135mm SRW		C Cap SRW	
3 9/16 x 8 7/8 x 17 1/8		5 5/16 x 8 7/8 x 17 1/8		3 9/16 x 12 x 15 3/4	
3 9/16 x 8 7/8 x 13 9/16		5 5/16 x 8 7/8 x 13 9/16			
3 9/16 x 8 7/8 x 10 7/16		5 5/16 x 8 7/8 x 10 7/16			
3 9/16 x 8 7/8 x 6 7/8		5 5/16 x 8 7/8 x 6 7/8			
				D Step Riser	
				3 9/16 x 8 7/8 x 15 3/4	



PALLET INFORMATION / ESTIMATING CHART

90MM SRW

Unit	SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	SqFt/ Unit	Weight/ Layer	Weight/ Pallet
X-Large	11.76	1.68	-	28	4	.42	-	-
Large	9.24	1.32	-	28	4	.33	-	-
Med	7	1	-	28	4	.25	-	-
Small	4.48	.64	-	28	4	.16	-	-
Total	33	4.714	7	112	16	-	459.57 lbs	3217 lbs

135MM SRW

Unit	SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	SqFt/ Unit	Weight/ Layer	Weight/ Pallet
X-Large	12.6	2.52	-	20	4	.63	-	-
Large	10	2	-	20	4	.50	-	-
Med	7.4	1.48	-	20	4	.37	-	-
Small	5	1	-	20	4	.25	-	-
Total	36	7.2	5	80	16	-	684 lbs	3420 lbs

CAP

SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	LnFt/ Pallet	LnFt/ Unit	Weight/ Layer	Weight/ Pallet
-	-	8	64	8	85.312	1.33	428 lbs	3424 lbs

STEP RISER

Pairs/ Pallet	Pairs/ Layer	Layers/ Pallet	Step Height	Step Width	Step Depth	Weight/ Layer	Weight/ Pallet
32	4	8	7"	16"	15"	418 lbs	3344 lbs

CELTIK® WALL

Freestanding Wall



RESIDENTIAL	COMMERCIAL	STEPS	COLUMNS	FIREPIT	RETAINING WALLS	FINISHES
						TUMBLED/ ANTIQUED
✓		✓	✓	✓	✓	

PRODUCT SPECIFICATIONS

A Small Celtik FSW 90mm		C Small Celtik FSW 135mm	
3 9/16 x 5 x 9		5 1/4 x 5 x 9	
3 9/16 x 7 x 9		5 1/4 x 7 x 9	
3 9/16 x 9 x 9		5 1/4 x 9 x 9	
3 9/16 x 11 x 9		5 1/4 x 11 x 9	
B Large Celtik FSW 90mm		D Large Celtik FSW 135mm	
3 9/16 x 16 x 9		5 1/4 x 13 9/16 x 9	
3 9/16 x 18 x 9		5 1/4 x 18 x 9	
		E Celtik FSW Cap	
		3 9/16 x 12 x 15 3/4	



PALLET INFORMATION / ESTIMATING CHART

SMALL CELTIK FSW 90MM

Unit Front Width	Unit Back Width	Unit Depth	SqFt/ Pallet	SqFt/ Layer	Unit/ Pallet	Layer/ Pallet	Unit/ Layer	SqFt/ Unit	Unit/ SqFt	Weight/ Layer	Weight/ Pallet	Pallets/ Truck	SqFt/ Truck
11"	9 in	9 in	11.86	1.48	48	-	6	0.247	4.05	-	-	-	-
9"	7 in	9 in	9.504	1.19	48	-	6	0.198	5.05	-	-	-	-
7"	5 in	9 in	7.104	0.89	48	-	6	0.148	6.76	-	-	-	-
5"	3 in	9 in	4.752	0.59	48	-	6	0.099	10.1	-	-	-	-
Total	-	-	34.5	4.39	192	8	24	-	-	534.75 lbs	4278 lbs	10	345

LARGE CELTIK FSW 90MM

Unit Front Width	Unit Back Width	Unit Depth	SqFt/ Pallet	SqFt/ Layer	Unit/ Pallet	Layer/ Pallet	Unit/ Layer	SqFt/ Unit	Unit/ SqFt	Weight/ Layer	Weight/ Pallet	Pallets/ Truck	SqFt/ Truck
18"	16 in	9 in	18.95	2.11	45	-	5	0.421	2.375	-	-	-	-
16"	14 in	9 in	16.7	1.86	45	-	5	0.371	2.695	-	-	-	-
Total	-	-	36	4	90	9	10	-	-	466 lbs	4194 lbs	11	396

SMALL CELTIK FSW 135MM

Unit Front Width	Unit Back Width	Unit Depth	SqFt/ Pallet	SqFt/ Layer	Unit/ Pallet	Layer/ Pallet	Unit/ Layer	SqFt/ Unit	Unit/ SqFt	Weight/ Layer	Weight/ Pallet	Pallets/ Truck	SqFt/ Truck
11"	9 in	9 in	10.95	2.19	30	-	6	0.365	2.74	-	-	-	-
9"	7 in	9 in	8.76	1.75	30	-	6	0.292	3.425	-	-	-	-
7"	5 in	9 in	6.57	1.31	30	-	6	0.219	4.566	-	-	-	-
5"	3 in	9 in	4.38	0.88	30	-	6	0.146	6.849	-	-	-	-
Total	-	-	32	6.4	120	5	25	-	-	704 lbs	3520 lbs	13	416

NOTES

--

PALLET INFORMATION / ESTIMATING CHART (CONTINUED)

LARGE CELTIK FSW 135MM

Unit Front Width	Unit Back Width	Unit Depth	SqFt/ Pallet	SqFt/ Layer	Unit/ Pallet	Layer/ Pallet	Unit/ Layer	SqFt/ Unit	Unit/ SqFt	Weight/ Layer	Weight/ Pallet	Pallets/ Truck	SqFt/ Truck
18"	16 in	9 in	18.6	3.1	30	-	5	0.62	1.613	-	-	-	-
16"	14 in	9 in	16.47	2.75	30	-	5	0.549	1.821	-	-	-	-
Total	-	-	36	6	60	6	10	-	-	729.5 lbs	4377 lbs	10	360

CELTIK FSW CAP

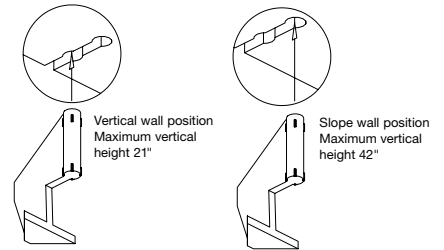
Unit Front Width	Unit Back Width	Unit Depth	Unit/ Pallet	LnFt/ Pallet	Layer/ Pallet	Unit/ Layer	LnFt/ Unit	Unit/ LnFt	Weight/ Layer	Weight/ Pallet	Pallets/ Truck	LnFt/ Truck
3.5625"	11 in	16 in	64	65.664	8	8	1.026	0.975	412 lbs	3296 lbs	14	919.3

CELTIK LAYING GUIDE

CELTIK PIN SYSTEM

The Celtik® Wall anchor pin has been designed to facilitate the construction of walls with a maximum height of 42". The special pin system has been designed to stabilize the overall structure and guide the installation of units. The dual-position system allows for the construction of vertical or 9°-sloped walls. Units are delivered with two different anchor pins: a regular pin with blades, and a second pin without blades, designed for the construction of corners.

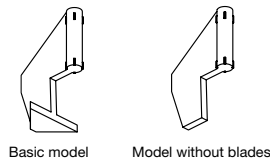
NOTE: Pins for the different Celtik® units are inserted from underneath, as shown in the illustration below. This is why units are placed bottom up on the pallet.



CELTIK® WALL CONSTRUCTION

Select one of the following arrangements:

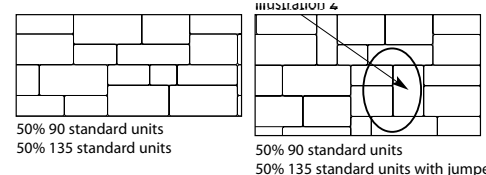
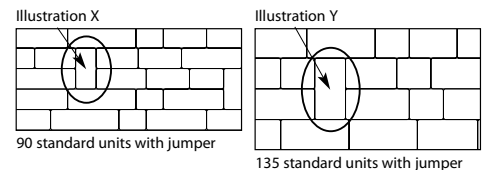
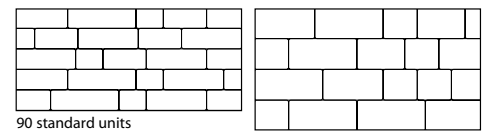
1. 90 standard units
2. 135 standard units
3. combination of 90 and 135 standard units



A. Installation of the first row: It is preferable to use the longest units for the first row, and lay them on the compacted foundation. It is important to carefully align the first-row units horizontally to ensure that the wall will be level. Even if the selected arrangement is a combination of 90 and 135 units, the first row must contain only one size (90 or 135). At this stage no pins are used.

B. Installation of following rows, walls of 90 or 135 standard units: Harmoniously lay units of following rows, not forgetting, however, to insert a pin in each unit before installation. First insert pins in units to be installed. Use appropriate grooves, depending on whether the wall is to be vertical or 9-sloped. Lay each row by overlapping joints of the last row installed.

Supplied radiuses may be used vertically to give a natural and original look to the layout. Two of those radiuses measure two rows high. Use a small radius (6 3/4") to match two 90 unit rows (see illustration X), and a medium radius (10 1/4") to cover two 135 unit rows (see illustration Y).



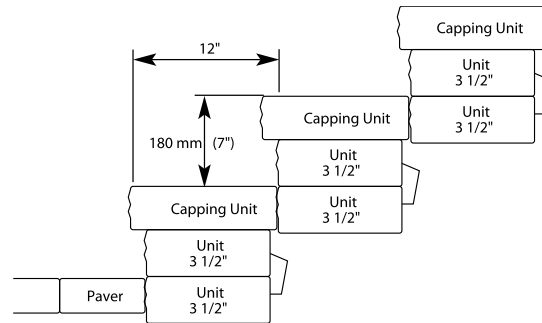
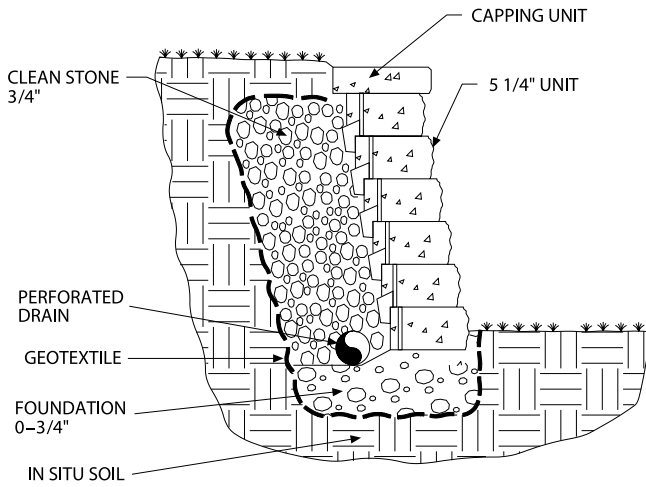
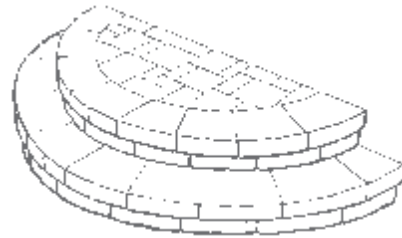
Combination of 90 and 135 standard units: Carefully distribute different sizes of units to give a well-balanced, natural look to the layout (see opposite arrangement examples). To integrate vertical elements to the arrangement, split 17 1/4"-long units (90 or 135 high) in halves. A split half covers the total height of a 90 unit plus a 135 unit. (see illustration Z).

C. Back filling: Every two rows, fill the space behind units with 3/4" clean stone. Repeat steps B and C up to the desired height. **NOTE:** When combining 90 and 135 units, spaces may appear between some units in the structure.

Building Steps Using Celtik® Capping Units: Creating straight steps or curved landings: Steps or landings can be laid using Celtik standard wall and Celtik capping units. Semicircular landings can also be created using the Celtik beveled capping units.

Note: Celtik steps and risers have a combined height of 7". If the height of the wall and that of the steps must be the same, it is important that the height of the wall containing the steps is in multiples of 7". For a certified installer in your area, see your Anchor Dealer.

Curved steps using Celtik standard wall units and Celtik beveled capping units



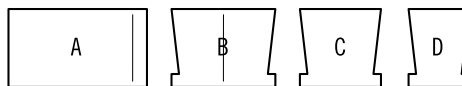
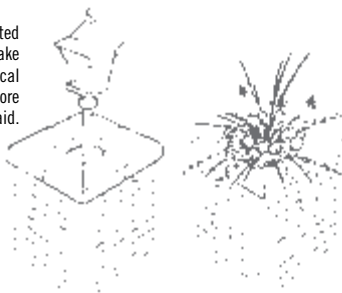
CELTIK WALL PIER KIT CONSTRUCTION

Building Pillars Using Retaining Wall and Straight Capping Units

To build a pillar minimizing joint alignment and better stability, be sure to follow the laying order for each step and by rows, as illustrated.

If flowers are to be planted atop the pillar, install a geotextile membrane inside the pillar before filling with earth.

WARNING: If a lighted pillar is desired, make sure all electrical wiring is laid before the units are laid.



For the corners, cut A and B units as illustrated:

- Trim the A unit along one of the two grooves (left or right)
- Trim the B unit in the middle



1. Installing the first row: Lay the first four units as illustrated (A, B, C and D), followed by the next four.
2. Installing the second, third and fourth rows: For each row, proceed as illustrated.

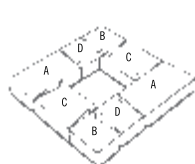
Starting from the fifth row, lay as for the first row, followed by the next until the desired height is reached (see illustration).

3. Capping: Use Celtik straight capping units.

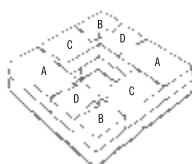
Pillar may be capped using Celtik cutting capping units

Notes: Measure the site for the pillar(s). Each pillar has a side of approximately 29".

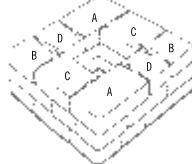
Always secure each row with adhesive to ensure stability.



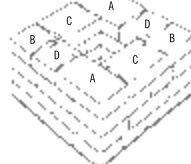
Step 1 (rows 1 and 5)



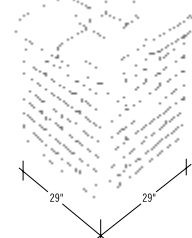
Step 2 (rows 2 and 6)



Step 3 (rows 3 and 7)



Step 4 (rows 4 and 8)



KEYSTONE CENTURY WALL®

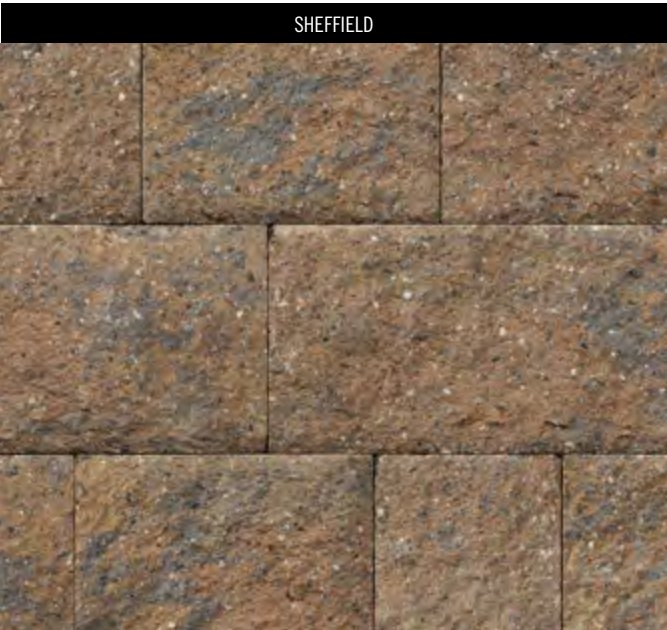
Retaining Wall



RESIDENTIAL	COMMERCIAL	STEPS	COLUMNS	FIREPIT	RETAINING WALLS	FINISHES
						TUMBLED/ ANTIQUED
✓	✓	✓			✓	

PRODUCT SPECIFICATIONS

A	Century Wall		B	Half Century Wall		C	Corner Jumper	
	8 x 7 x 12			4 x 18 x 12			8 x 16 x 12	
	8 x 11 x 12			4 x 11 x 12			D	Cap
	8 x 18 x 12			4 x 7 x 12			4 x 18 x 11	



PALLET INFORMATION / ESTIMATING CHART

CENTURY WALL									
Unit	SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	Units/ SqFt	SqFt/ Unit	Weight/ Layer	Weight/ Pallet
Large Piece	16	4	-	16	4	1	1	-	-
Medium Piece	9.76	2.44	-	16	4	1.639	.61	-	-
Small Piece	6.24	1.56	-	16	4	2.564	.39	-	-
Total	32	8	4	48	12	-	-	760 lbs	3040 lbs

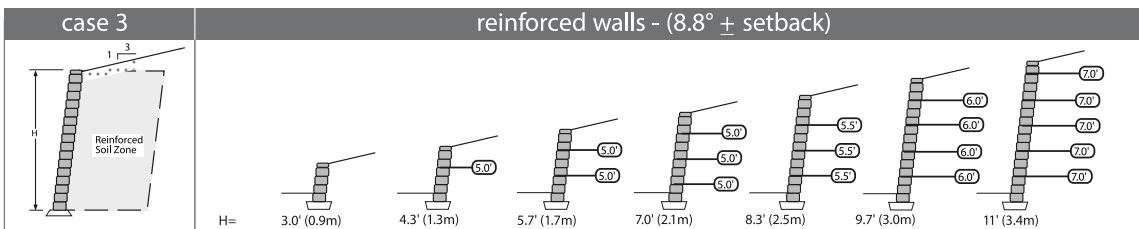
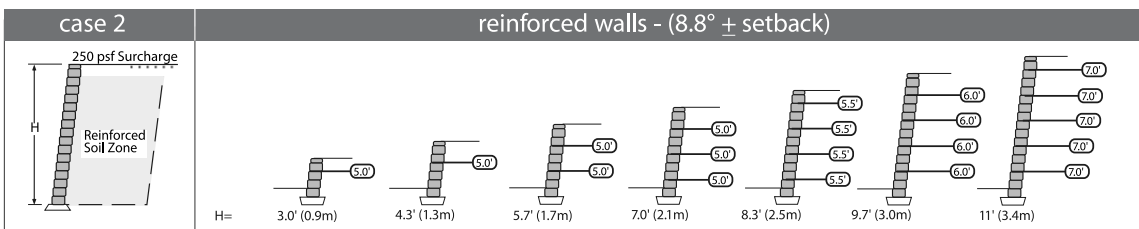
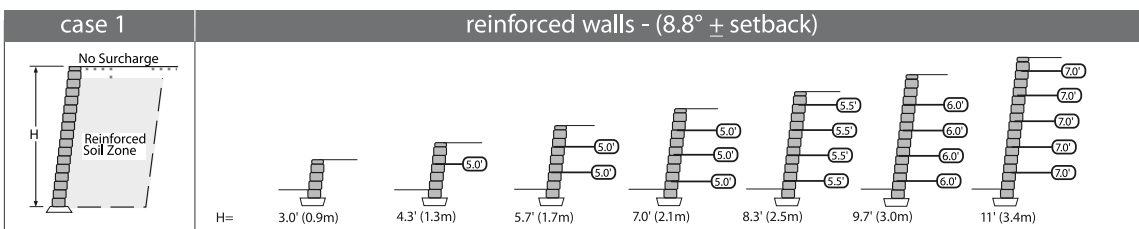
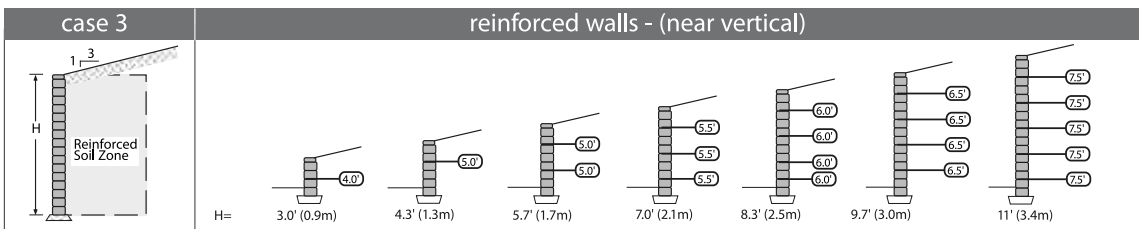
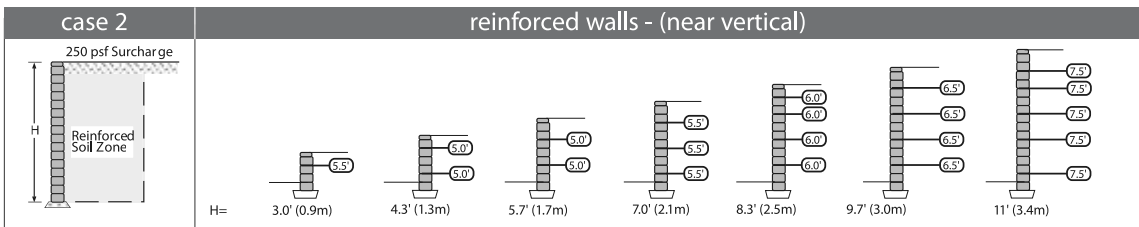
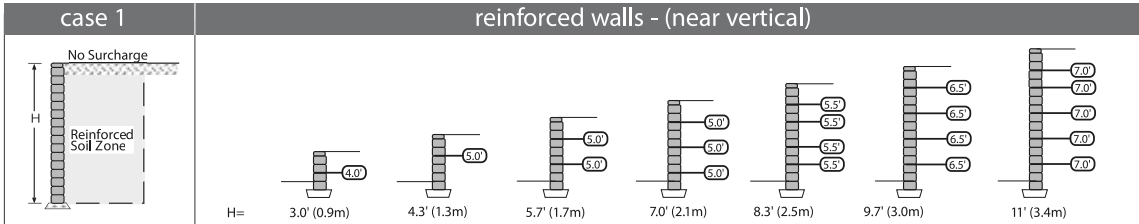
HALF CENTURY WALL									
Unit	SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	Units/ SqFt	SqFt/ Unit	Weight/ Layer	Weight/ Pallet
Large Piece	16	2	-	32	4	2	.5	-	-
Medium Piece	9.92	1.24	-	32	4	3.23	.31	-	-
Small Piece	6.08	.76	-	32	4	5.263	.19	-	-
Total	32	4	8	96	12	-	-	380 lbs	3040 lbs

CORNER JUMPER									
SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	LnFt/ Pallet	LnFt/ Unit	Unit Weight	Weight/ Pallet	
-	-	4	36	9	-	-	93.6 lbs	3420 lbs	

CAP									
Unit Width	Unit Depth	Unit/ Pallet	LnFt/ Pallet	Layers/ Pallet	Units/ Layer	LnFt/ Unit	Units/ LnFt	Weight/ Layer	Weight/ Pallet
18"	11"	56	84	7	8	1.5	.667	514 lbs	3598 lbs

Design Charts

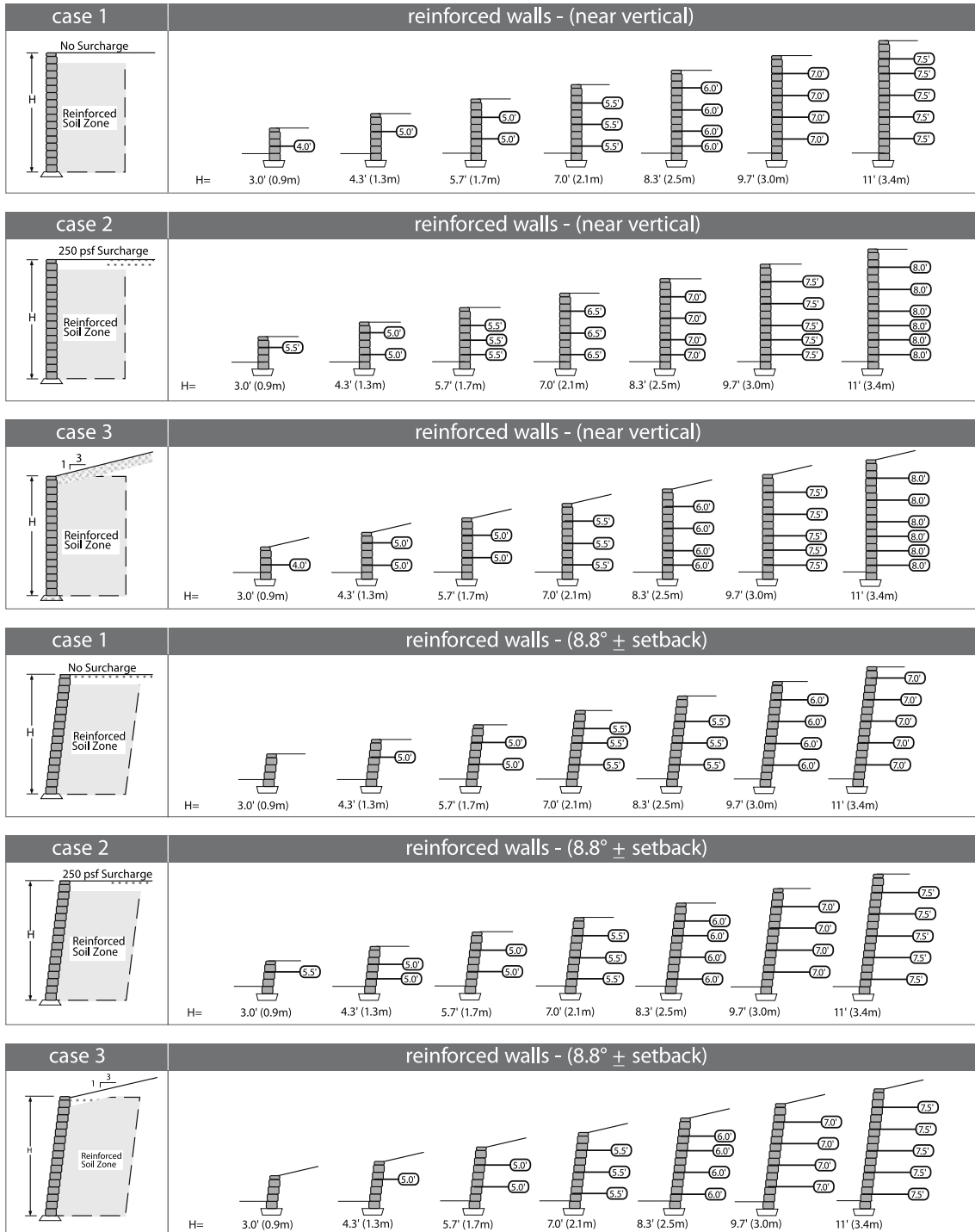
The following charts assume the use of a coated polyester geogrid with a minimum allowable design strength of LTDS = 1350 plf (10.9 kN/m) or Tal = 900 plf (7.3 kN/m). Information on specific geogrids is available from the geogrid manufacturer.



sand gravel: $\phi=34^\circ$, $\gamma=120$ pcf (19kN/m³)

Design Charts

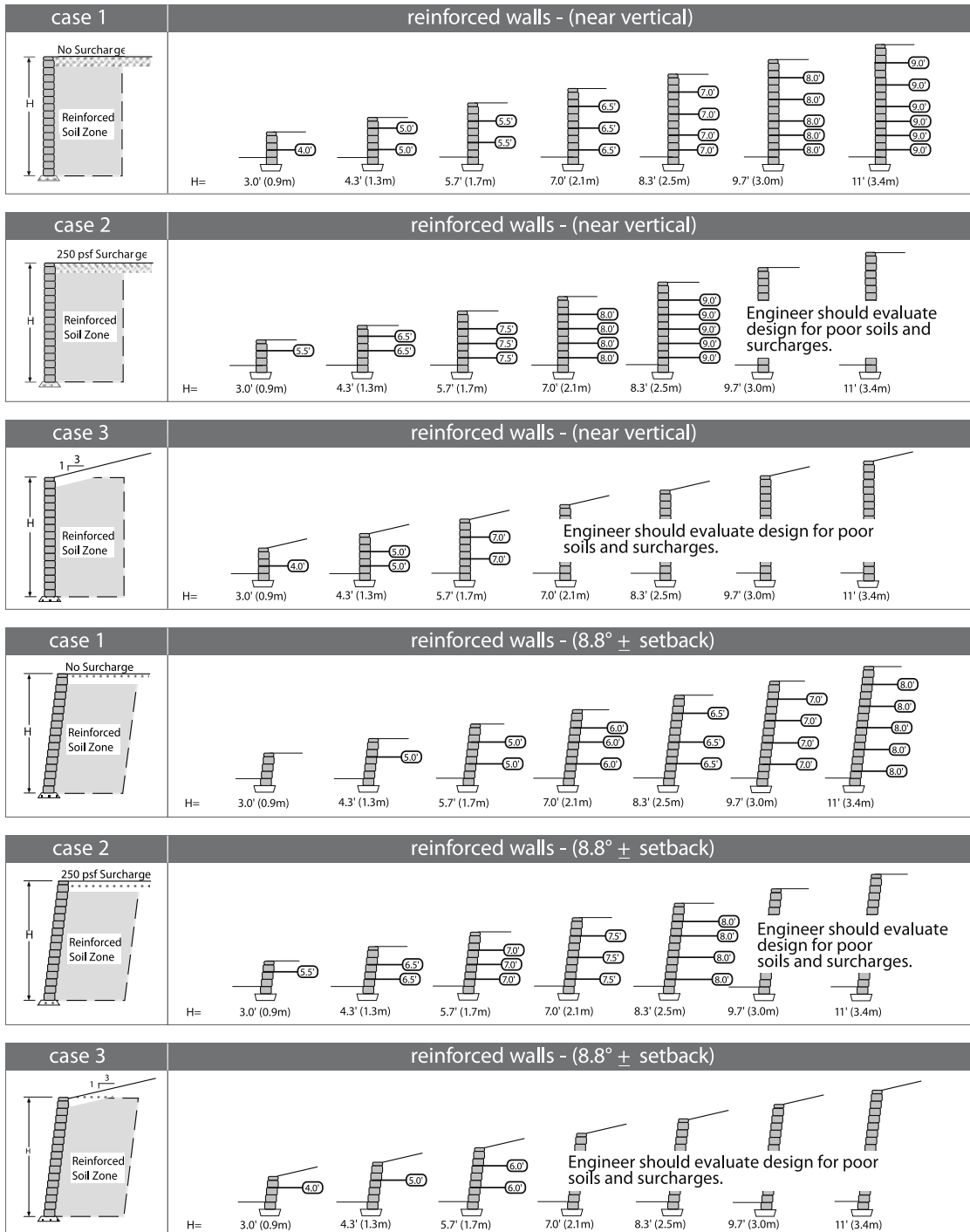
The following charts assume the use of a coated polyester geogrid with a minimum allowable design strength of LTDS = 1350 plf (10.9 kN/m) or Tal = 900 plf (7.3 kN/m). Information on specific geogrids is available from the geogrid manufacturer.



silty sand: $\phi=30^\circ$, $\gamma=120\text{pcf}$ (19kN/m³)

Design Charts

The following charts assume the use of a coated polyester geogrid with a minimum allowable design strength of LTDS = 1350 plf (10.9 kN/m) or Tal = 900 plf (7.3 kN/m). Information on specific geogrids is available from the geogrid manufacturer.



silt/lean clay: $\phi=26^\circ$, $\gamma=120 \text{ pcf}$ (19kN/m³)

NOTES

For pattern options visit belgard.com/products/retaining_walls

KEYSTONE COMPAC®

Retaining Wall

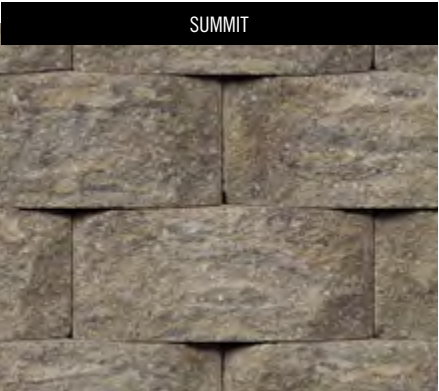
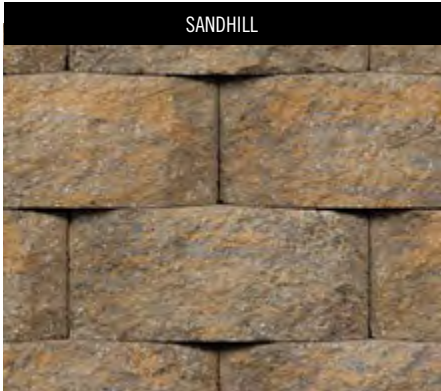
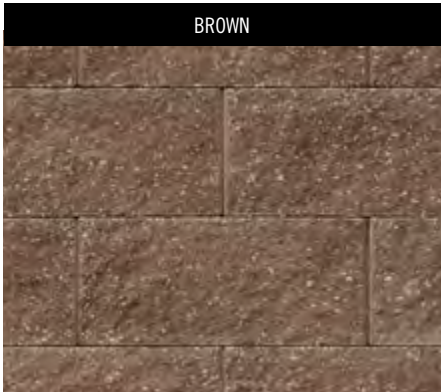


RESIDENTIAL	COMMERCIAL	STEPS	COLUMNS	FIREPIT	RETAINING WALLS	FINISHES
						TUMBLLED/ ANTIQUED
✓	✓	✓			✓	

Please see Keystone Standard for corner units compatible with this product.

PRODUCT SPECIFICATIONS

A	Straight Face	B	Angled Face	C	Cap
10 x 12 x 2 3/8		10 x 12 x 2 3/8		4 x 18 x 11	



PALLET INFORMATION / ESTIMATING CHART

STRAIGHT FACE

Unit Height	Unit Width	Unit Depth	SqFt/ Pallet	SqFt/ Layer	Unit/ Pallet	Layer/ Pallet	Unit/ Layer	SqFt/ Unit	Unit/ SqFt	Weight/ Layer	Weight/ Pallet	Pallets/ Truck	SqFt/ Truck
8 in	18 in	12 in	45	9	45	5	9	1	1	684 lbs	3420 lbs	13	585

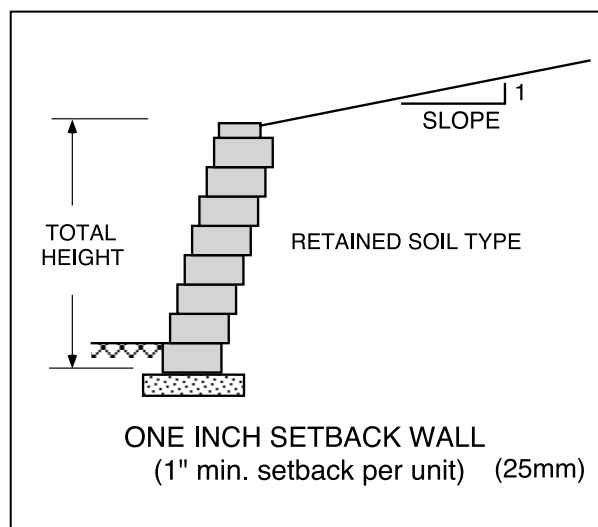
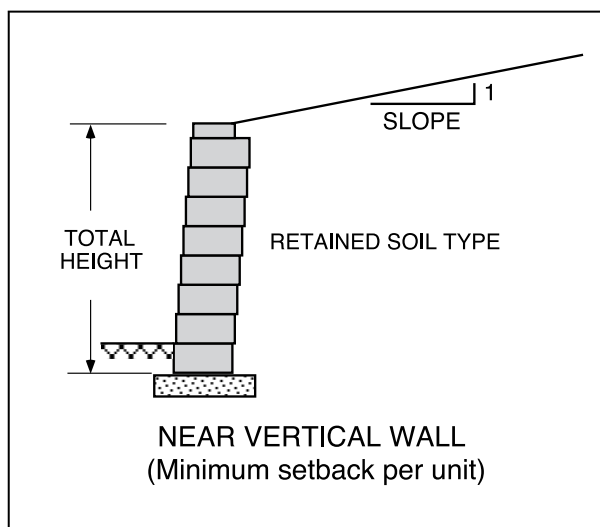
ANGLED FACE

Unit Height	Unit Width	Unit Depth	SqFt/ Pallet	SqFt/ Layer	Unit/ Pallet	Layer/ Pallet	Unit/ Layer	SqFt/ Unit	Unit/ SqFt	Weight/ Layer	Weight/ Pallet	Pallets/ Truck	SqFt/ Truck
8 in	18 in	12 in	45	9	45	5	9	1	1	666 lbs	3330 lbs	14	630

CAP

Unit Width	Unit Depth	Unit/ Pallet	LnFt/ Pallet	Layers/ Pallet	Units/ Layer	LnFt/ Unit	Units/ LnFt	Weight/ Layer	Weight/ Pallet
18"	11"	56	84	7	8	1.5	.667	514 lbs	3598 lbs

KEYSTONE LAYING GUIDE



NEAR VERTICAL - STANDARD UNITS (18")

MAX. HGT .	BACKSLOPE				
	Soil Type	Level	4H:1V	3H:1V	2H:1V
	Sand/Gravel	4.33' (1.30m)	3.67' (1.10m)	3.67' (1.10m)	3.00' (0.91m)
	Silty Sand	3.67' (1.10m)	3.00' (0.91m)	3.00' (0.91m)	3.00' (0.91m)
	Silt/Lean Clay	3.67' (1.19m)	3.00' (0.91m)	3.00' (0.91m)	<1.00' (0.30m)

SETBACK OPTION - STANDARD UNITS (18")

MAX. HGT .	BACKSLOPE				
	Soil Type	Level	4H:1V	3H:1V	2H:1V
	Sand/Gravel	5.67' (1.70m)	5.00' (1.50m)	5.00' (1.50m)	4.33' (1.30m)
	Silty Sand	5.00' (1.50m)	4.33' (1.30m)	4.33' (1.30m)	3.67' (1.10m)
	Silt/Lean Clay	4.33' (1.30m)	3.67' (1.10m)	3.00' (0.91m)	2.33' (0.71m)

KEYSTONE COUNTRY MANOR®

Freestanding & Retaining Wall



RESIDENTIAL	COMMERCIAL	STEPS	COLUMNS	FIREPIT	RETAINING WALLS	FINISHES
						TUMBLED/ ANTIQUED
✓	✓	✓	✓	✓	✓	✓

PRODUCT SPECIFICATIONS			NOTES																			
<table border="1"> <thead> <tr> <th>A</th> <th colspan="2">5 Piece</th> </tr> </thead> <tbody> <tr> <td>6 x 16 / 14 x 10</td> <td></td> <td></td> </tr> <tr> <td>6 x 12 / 12 x 10</td> <td></td> <td></td> </tr> <tr> <td>6 x 12 / 10 x 10</td> <td></td> <td></td> </tr> <tr> <td>6 x 10 / 8 x 10</td> <td></td> <td></td> </tr> <tr> <td>6 x 6 / 4 x 10</td> <td></td> <td></td> </tr> </tbody> </table>			A	5 Piece		6 x 16 / 14 x 10			6 x 12 / 12 x 10			6 x 12 / 10 x 10			6 x 10 / 8 x 10			6 x 6 / 4 x 10			<p>COLONIAL</p>	
A	5 Piece																					
6 x 16 / 14 x 10																						
6 x 12 / 12 x 10																						
6 x 12 / 10 x 10																						
6 x 10 / 8 x 10																						
6 x 6 / 4 x 10																						
<table border="1"> <thead> <tr> <th>B</th> <th colspan="2">Cap</th> </tr> </thead> <tbody> <tr> <td>3 x 14 x 12</td> <td></td> <td></td> </tr> <tr> <td>3 x 12 x 12</td> <td></td> <td></td> </tr> <tr> <td>3 x 10 x 12</td> <td></td> <td></td> </tr> <tr> <td>3 x 8 x 12</td> <td></td> <td></td> </tr> <tr> <td>3 x 4 x 12</td> <td></td> <td></td> </tr> </tbody> </table>			B	Cap		3 x 14 x 12			3 x 12 x 12			3 x 10 x 12			3 x 8 x 12			3 x 4 x 12			<p>POTOMAC</p>	
B	Cap																					
3 x 14 x 12																						
3 x 12 x 12																						
3 x 10 x 12																						
3 x 8 x 12																						
3 x 4 x 12																						

PALLET INFORMATION / ESTIMATING CHART

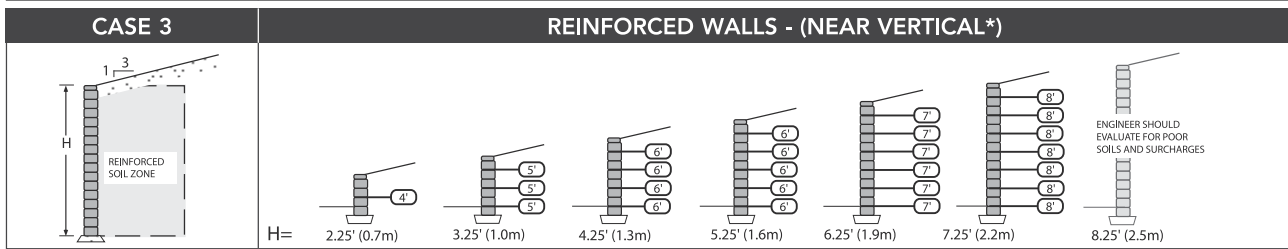
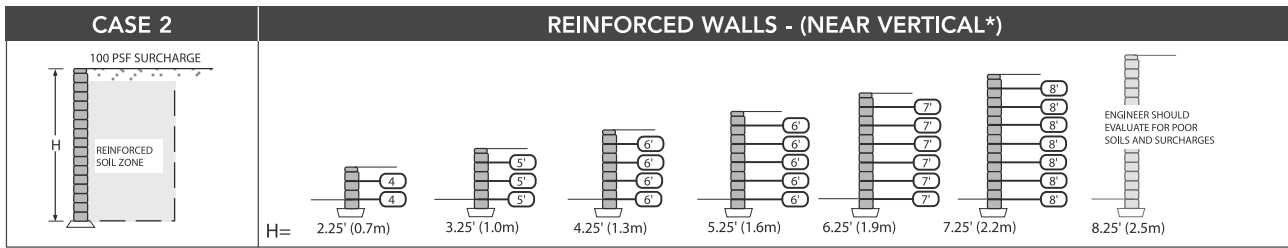
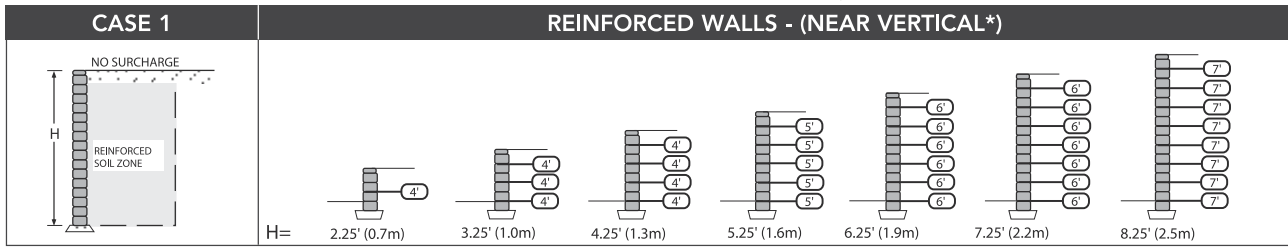
5 PIECE								
Unit	SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	SqFt/ Unit	Weight/ Layer	Weight/ Pallet
X-Large	12.6	7.5	-	12	2	.625	-	-
Large	10	6	-	12	2	.5	-	-
Med	7.4	5.496	-	12	2	.458	-	-
Small	5	4.5	-	12	2	.375	-	-
X-Small	-	4.992	-	24	4	.208	-	-
Total	28.5	4.72	6	72	12	-	517 lbs	3102 lbs

CAP								
Unit	LnFt/ Pallet	LnFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	LnFt/ Unit	Weight/ Layer	Weight/ Pallet
X-Large	2.5	2.5	-	20	2	1.25	-	-
Large	18.34	1.834	-	20	2	.917	-	-
Med	11.66	1.166	-	20	2	.583	-	-
Small	5	.5	-	10	1	.5	-	-
X-Small	8.32	.832	-	20	2	.416	-	-
Total	68	6.8	10	90	9	-	245.5 lbs	2455 lbs

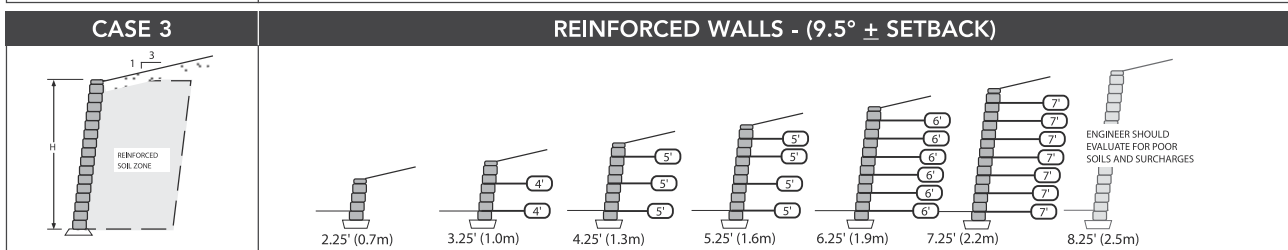
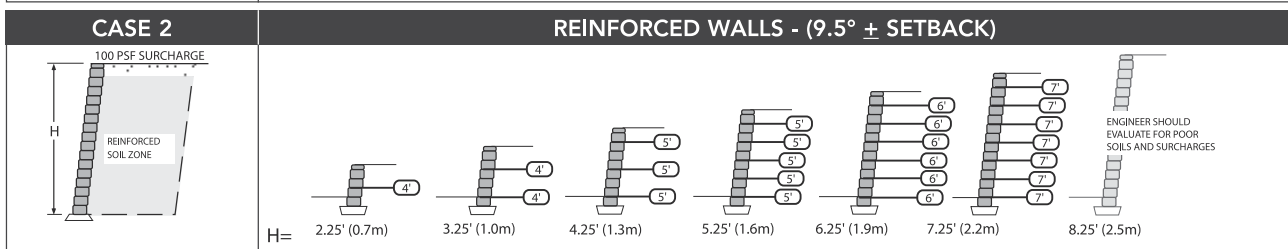
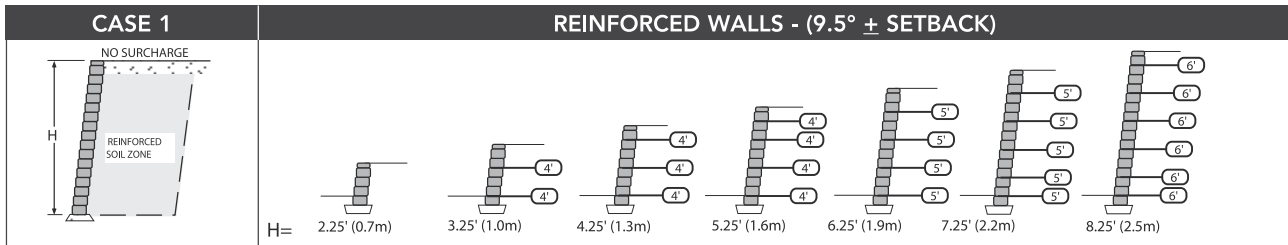
Design Charts

geogrid with a minimum allowable design strength of:
 LTDS = 750 plf (10.9 kN/m) or Tal = 500 plf (7.3 kN/m)

Silt/Lean Clay: $\phi=26^\circ$, $\gamma=120$ pcf (19kN/m³)



*FOR CONSTRUCTION OF NEAR VERTICAL BATTER (CENTER PIN HOLE), CONSTRUCT WITH POSITIVE BATTER BY TILTING UNITS BACK TOWARDS FILL ON LEVELING PAD. ELEVATION DROP ALONG THE 10" WIDTH OF THE BLOCK TO BE 3/8".

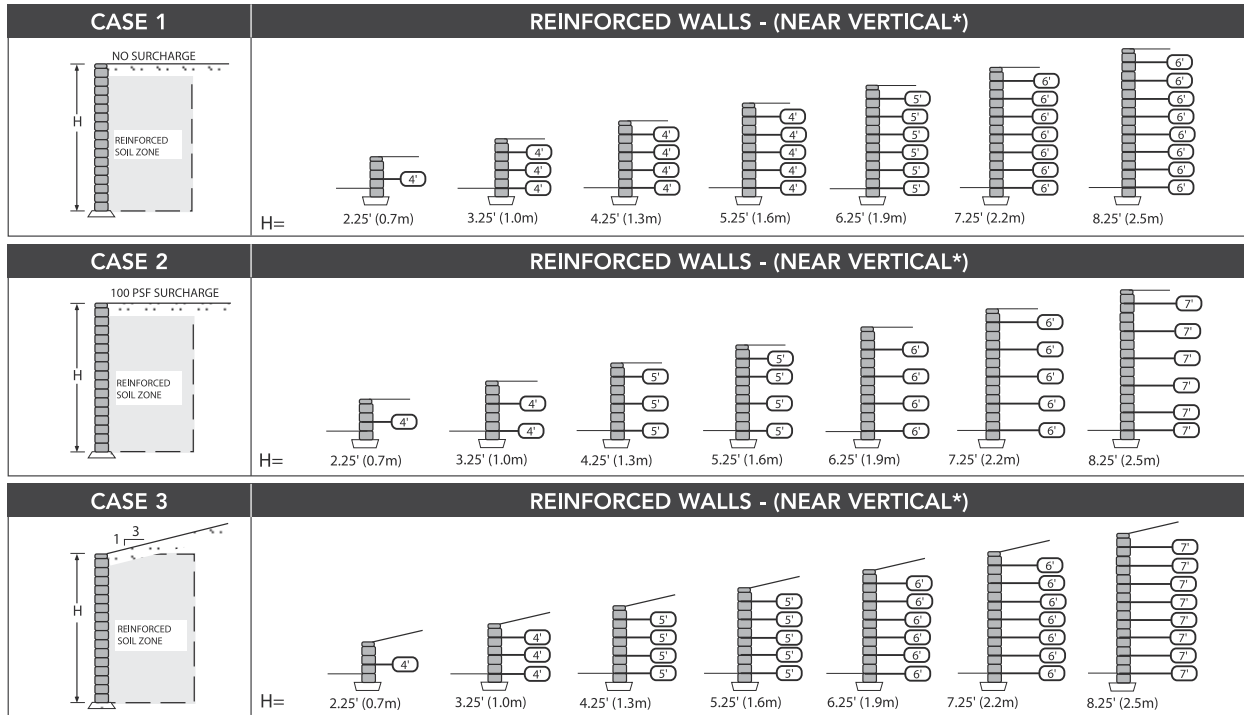


• The information provided herein is for preliminary design use only. A qualified engineer should be consulted for design and analysis of structures. Keystone Retaining Wall Systems, Inc. assumes no liability for the improper use of this information. *Information on specific geogrids is available from the geogrid manufacturer.

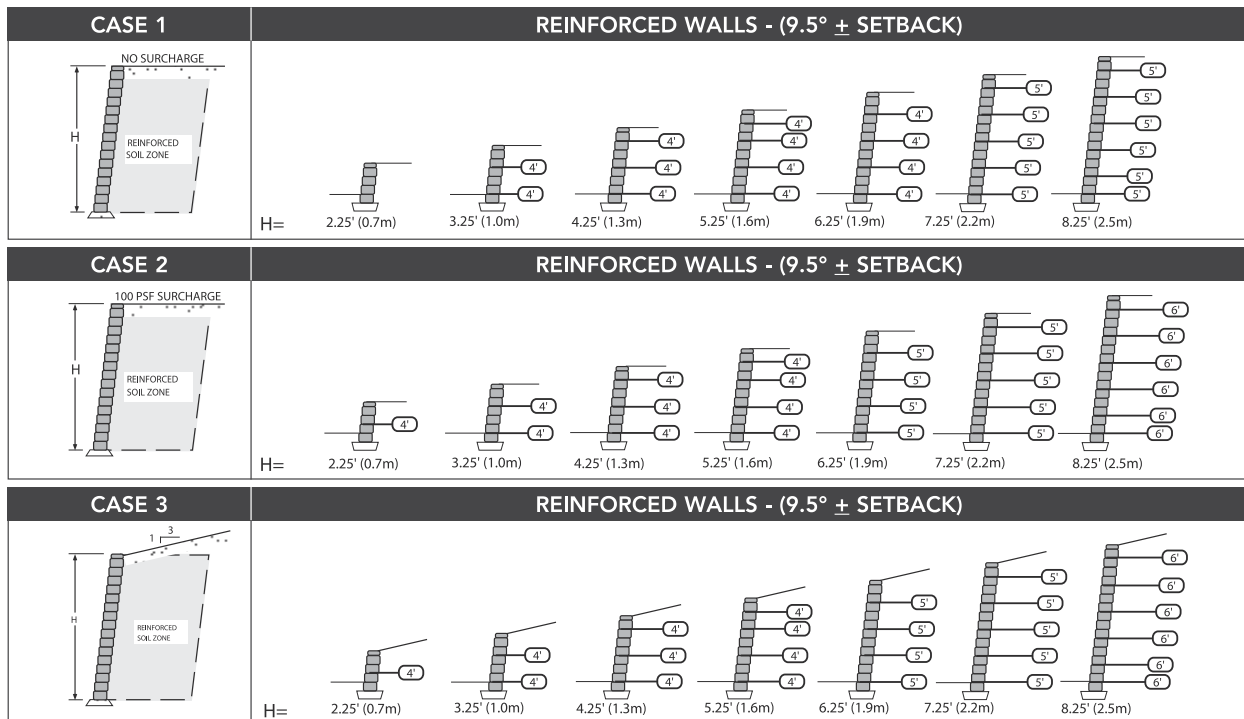
Design Charts

Silty Sand: $\phi=30^\circ$, $\gamma=120$ pcf (19kN/m³)

The following charts assume the use of a coated polyester geogrid with a minimum allowable design strength of:
 LTDS = 750 plf (10.9 kN/m) or Tal = 500 plf (7.3 kN/m)



*FOR CONSTRUCTION OF NEAR VERTICAL BATTER (CENTER PIN HOLE), CONSTRUCT WITH POSITIVE BATTER BY TILTING UNITS BACK TOWARDS FILL ON LEVELING PAD. ELEVATION DROP ALONG THE 10" WIDTH OF THE BLOCK TO BE 3/8".

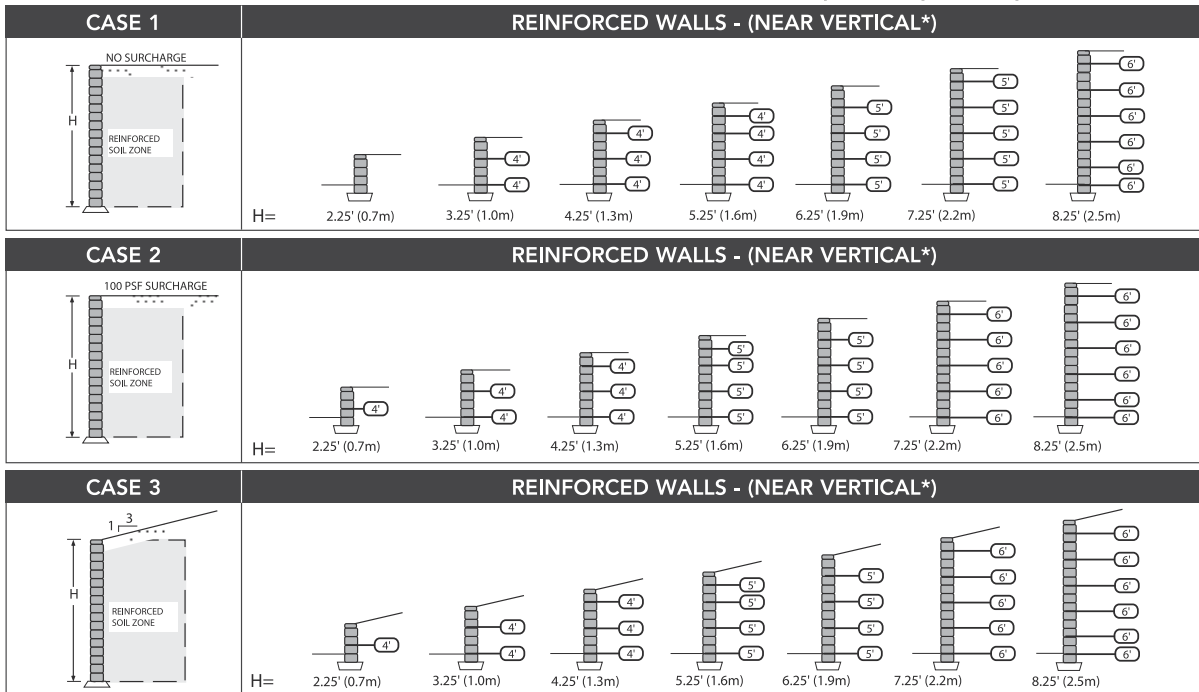


* The information provided herein is for preliminary design use only. A qualified engineer should be consulted for design and analysis of structures. Keystone Retaining Wall Systems, Inc. assumes no liability for the improper use of this information. *Information on specific geogrids is available from the geogrid manufacturer.

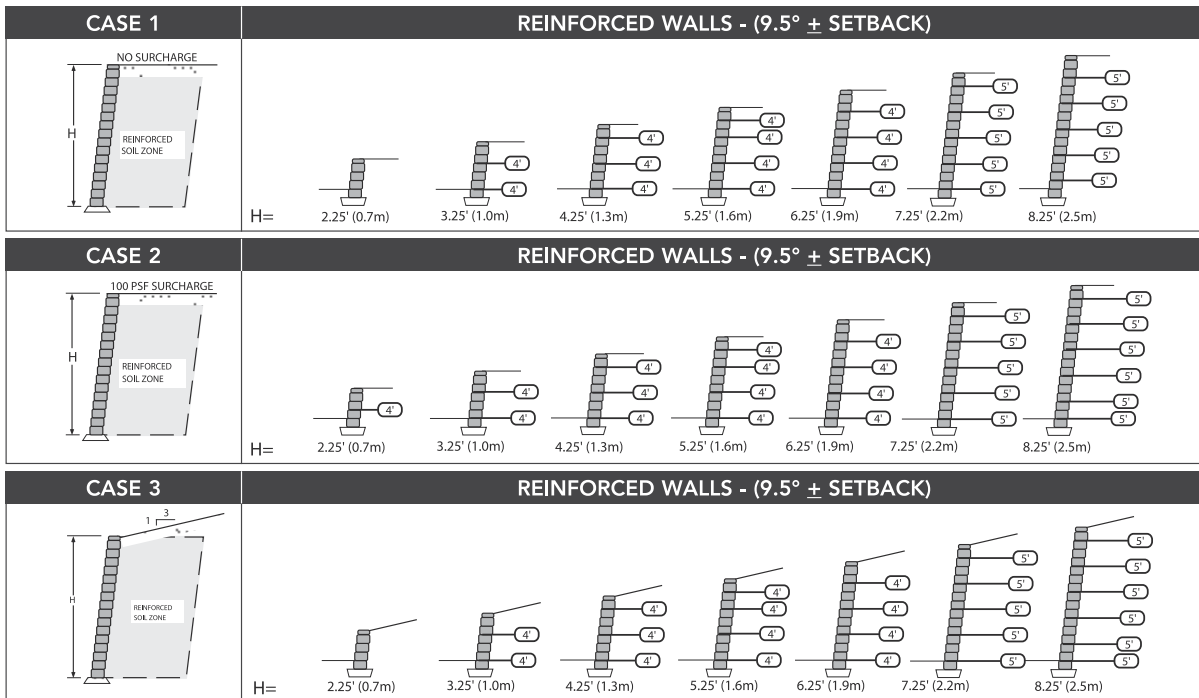
Design Charts

The following charts assume the use of a coated polyester geogrid with a minimum allowable design strength of:
 LTDS = 750 plf (10.9 kN/m) or Tal = 500 plf (7.3 kN/m)

Sand/Gravel: $\phi=34^\circ$, $\gamma=120$ pcf (19kN/m³)



*FOR CONSTRUCTION OF NEAR VERTICAL BATTER (CENTER PIN HOLE), CONSTRUCT WITH POSITIVE BATTER BY TILTING UNITS BACK TOWARDS FILL ON LEVELING PAD. ELEVATION DROP ALONG THE 10" WIDTH OF THE BLOCK TO BE 3/8".



• The information provided herein is for preliminary design use only. A qualified engineer should be consulted for design and analysis of structures. Keystone Retaining Wall Systems, Inc. assumes no liability for the improper use of this information. *Information on specific geogrids is available from the geogrid manufacturer.

NOTES

For more pattern options visit belgard.com/products/retaining_walls

KEYSTONE STANDARD®

Retaining Wall



RESIDENTIAL	COMMERCIAL	STEPS	COLUMNS	FIREPIT	RETAINING WALLS	FINISHES
						TUMBLED/ ANTIQUED
✓	✓	✓			✓	

PRODUCT SPECIFICATIONS

A	Angled Face	
	10 x 12 x 2 3/8	

B	Cap	
	4 x 18 x 11	

C	Keystone Corner	
	8 x 18 x 9	

D	†Universal Corner	
	8 x 18 x 9	
<i>For use with Keystone Compac and Diamond Pro units</i>		

†Only available in colors:
Plantation, Sandhill and Summit



PALLET INFORMATION / ESTIMATING CHART

KEYSTONE STANDARD ANGLED FACE

Unit Height	Unit Width	Unit Depth	SqFt/ Pallet	SqFt/ Layer	Unit/ Pallet	Layer/ Pallet	Unit/ Layer	SqFt/ Unit	Unit/ SqFt	Weight/ Layer	Weight/ Pallet	Pallets/ Truck	SqFt/ Truck
8 in	18 in	21.5 in	30	6	30	5	6	1	1	688.8 lbs	3444 lbs	13	390

CAP

Unit Width	Unit Depth	Unit/ Pallet	LnFt/ Pallet	Layers/ Pallet	Units/ Layer	LnFt/ Unit	Units/ LnFt	Weight/ Layer	Weight/ Pallet
18"	11"	56	84	7	8	1.5	.667	514 lbs	3598 lbs

KEYSTONE CORNER

Unit Height	Unit Width	Unit Depth	Unit/ Pallet	Unit/ Layer	Layer/ Pallet	Weight/ Layer	Weight/ Pallet	Pallets/ Truck	Units/ Truck
8 in	18 in	9 in	50	10	5	820 lbs	4100 lbs	11	550

UNIVERSAL CORNER

Unit Height	Unit Width	Unit Depth	Unit/ Pallet	Unit/ Layer	Layer/ Pallet	Weight/ Layer	Weight/ Pallet	Pallets/ Truck	Units/ Truck
8 in	18 in	9 in	50	10	5	830 lbs	4152 lbs	11	550

NOTES

KEYSTONE STONEGATE®

Freestanding & Retaining Wall



RESIDENTIAL	COMMERCIAL	STEPS	COLUMNS	FIREPIT	RETAINING WALLS	FINISHES
						TUMBLED/ ANTIQUED
✓	✓	✓	✓	✓	✓	✓

PRODUCT SPECIFICATIONS

A	Keystone Stonegate
6 x 16 / 14 x 10	
6 x 12 / 10 x 10	
6 x 6 / 4 x 10	

B	Westgate Coping Cap
10 x 12 x 2 3/8	



PALLET INFORMATION / ESTIMATING CHART

KEYSTONE STONEGATE									
Unit	SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	Units/ SqFt	SqFt/ Unit	Weight/ Layer	Weight/ Pallet
Large Piece	17.5	2.5	-	28	4	1.6	.625	-	-
Medium Piece	12.824	1.832	-	28	4	2.183	.458	-	-
Small Piece	5.824	.832	-	28	4	4.808	.208	-	-
Total	36	5.16	7	84	12	-	-	545.57 lbs	3819 lbs

WESTGATE COPING CAP										
SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	LnFt/ Pallet	LnFt/ Layer	LnFt/ Unit	Units/ LnFt	Weight/ Layer	Weight/ Pallet
-	-	5	80	16	66.67	13.334	.83	1.205	352 lbs	1760 lbs

NOTES										

MEGA-TANDEM™

Retaining Wall



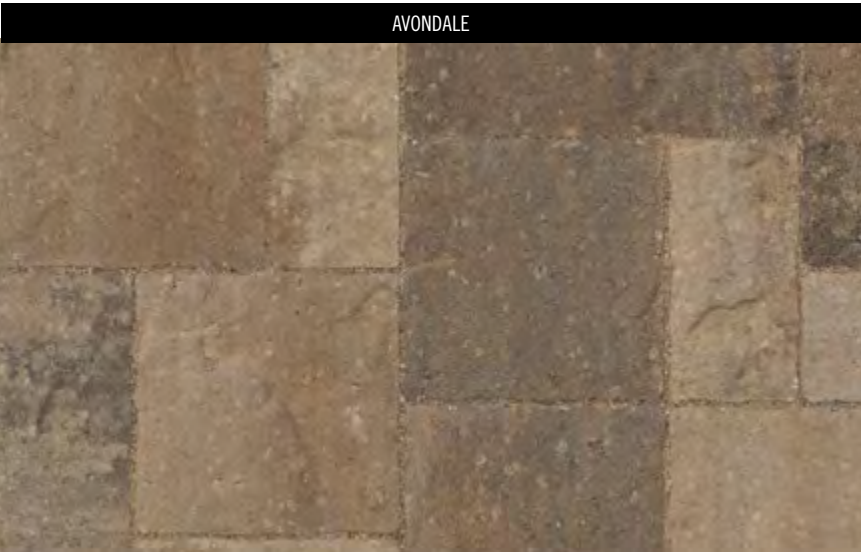
RESIDENTIAL	COMMERCIAL	STEPS	COLUMNS	FIREPIT	RETAINING WALLS	MAILBOX
✓	✓				✓	

PRODUCT SPECIFICATIONS

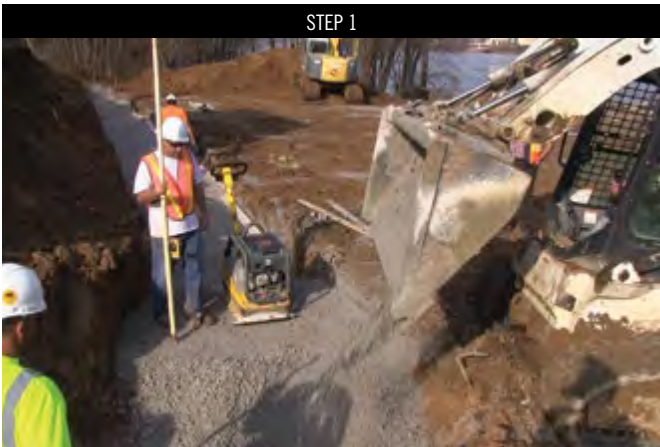
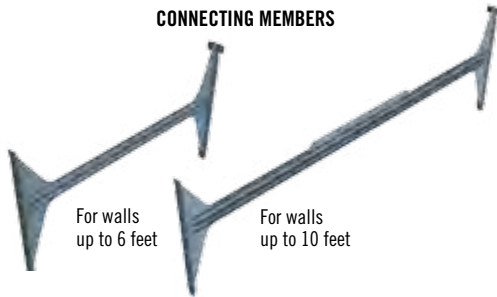
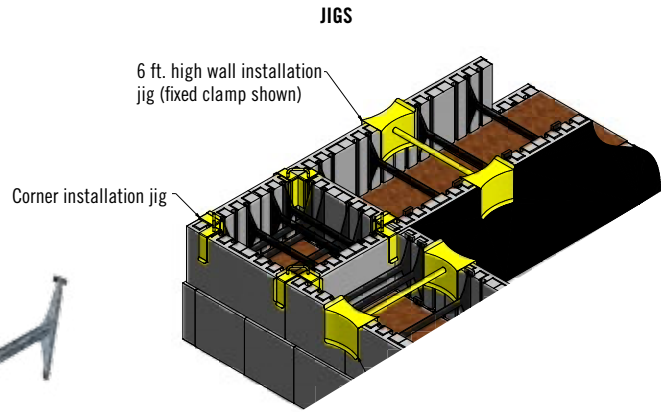
Mega-Tandem	
12 x 24 x 3	

Connectors	
22" Connector Supports gravity walls up to 6'	
43" Connector Supports gravity walls up to 10'	

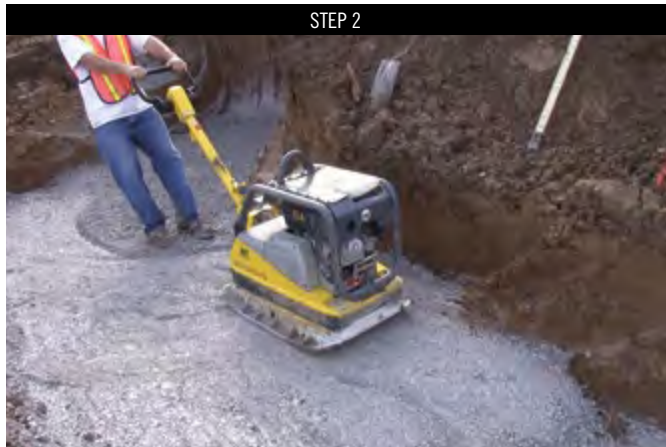
Mega-Tandem Cap	
15 x 24 x 3 1/4	



MEGA TANDEM™ (MSRW) COMPONENTS



Place the 6" crushed stone (3/4" rock) to create the leveling pad for the Mega-Tandem™ (MSRW).



Compact the placed crushed stone to reach 95% standard proctor density.



Forming up to pour a 2" unreinforced concrete overlay for setting the first course of Mega-Tandem™ (MSRW). **A 6" crushed stone leveling pad is an option as well.**



Pouring the leveling pad with a low psi concrete.



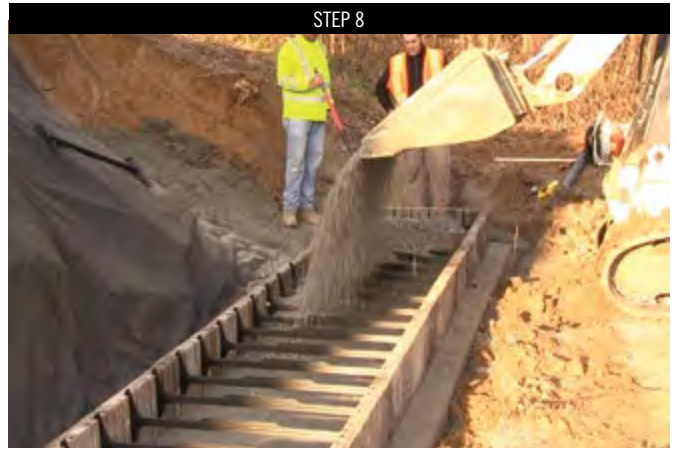
Start the Mega-Tandem™ (MSRW) at the lowest elevation. Start by setting the panels in place with the use of the wall jigs to help support the panels during the wall installation.



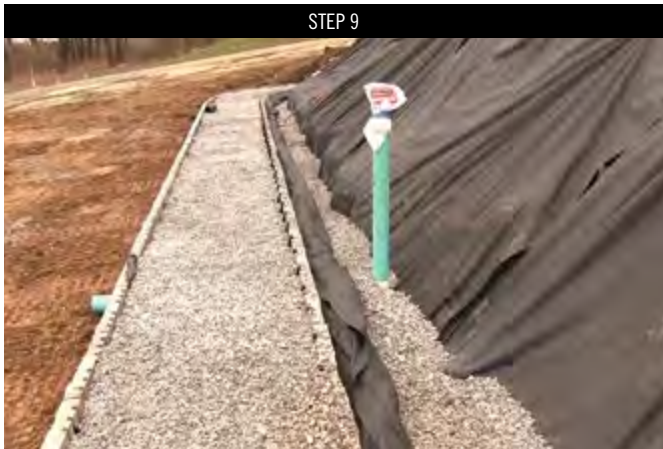
Insert the Mega-Tandem™ (MSRW) connecting members into the center dovetails to provide the structural support in the wall system.



Run a string line from the back side of the front wall veneer to assure proper horizontal wall alignment.



Place the #57 stone inside the Mega-Tandem™ (MSRW) panels to provide the internal gravel interlock. This will also provide for internal drainage to relieve hydrostatic pressure in the wall.



Place the drain tile directly behind the rear wall panel to provide for positive drainage through the wall to daylight.



Laying out the radii. Insert plastic connecting members into the veneer dovetails to keep the connectors as straight as possible. Make sure that each veneer has at least two connecting members for proper panel support.

STEP 11



Start the corner with the side textured fitting up against a MT wall (MSRW) panel facing the outer side of the wall. Then place additional panels to create a corner column. Insert the first two connectors upside down for the panel supports (break off the setback tab for this step). Then place two connectors in the opposite direction right side up to support the additional panels. Mega-Tandem Wall™ requires four connecting members per course.

STEP 12



Place a concrete paver directly behind the wall panel and level from front to back. Then take the construction adhesive and place the glue on the paver and top of wall panel. Then secure the cap units to create the bond.

STEP 13



Run a string line for accurate wall alignment when setting the caps.

STEP 14



Place a low permeable soil for fill placement for the top of wall.

MEGA TANDEM

Unit Height	Unit Width	SqFt/ Pallet	Face SqFt/ Pallet	Face SqFt/ Layer	Unit/ Pallet	Layer/ Pallet	Units/ Layer	SqFt/ Unit	Units/ SqFt	Weight/ Layer	Weight/ Pallet
12"	24"	96	48	6	48	8	6	2	.5	378.5 lbs	3028 lbs

MEGA-TANDEM CAP

Unit Height	Unit Width	Unit Depth	Unit/ Pallet	LnFt/ Pallet	Layer/ Pallet	Units Layer	LnFt/ Unit	Unit/ LnFt	Weight/ Layer	Weight/ Pallet
3"	18"	6.75"	96	144	8	12	1.5	.67	312 lbs	2496 lbs

TANDEM® WALL

Freestanding & Retaining Wall



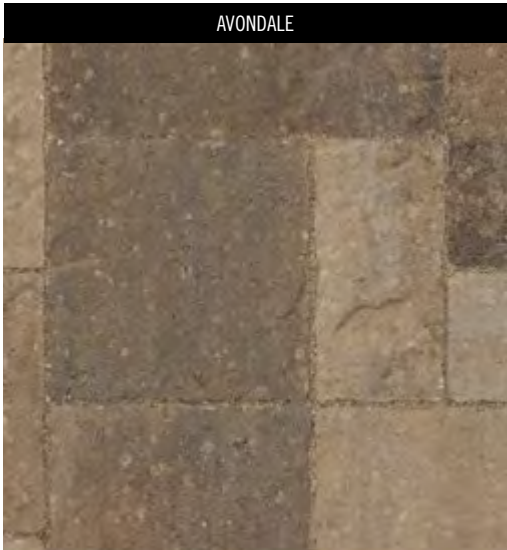
RESIDENTIAL	COMMERCIAL	STEPS	COLUMNS	FIREPIT	RETAINING WALLS
✓	✓	✓	✓		✓

PRODUCT SPECIFICATIONS

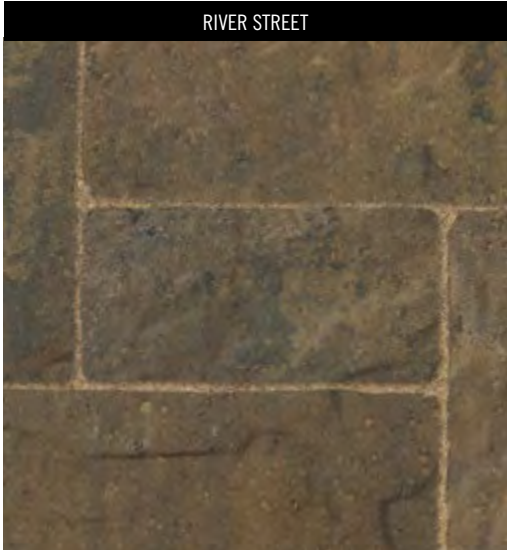
Final swatch selection should always be verified with physical samples.

Tandem Wall Ashlar	
7 x 13 2/3 x 3	
7 x 15 2/3 x 3	
7 x 18 x 3	

8" Connecting Member
30 per Bag/ 3 bags needed per pallet



Cap Unit	
3 1/4 x 24 x 15	



PALLET INFORMATION / ESTIMATING CHART

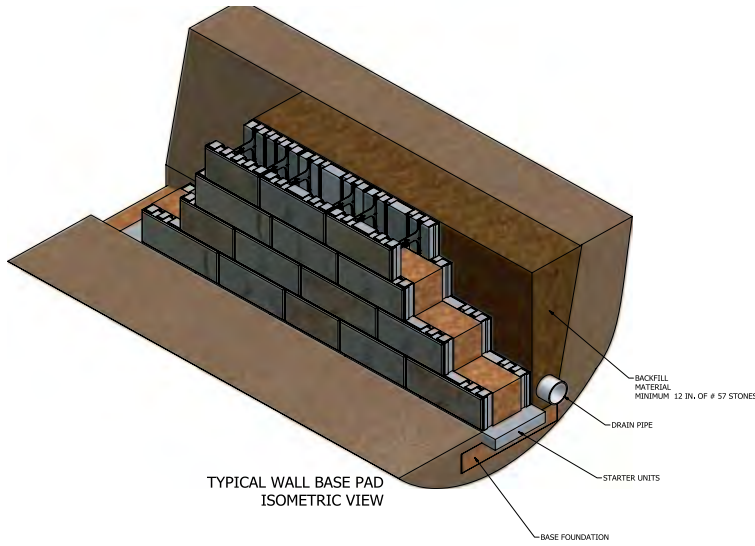
TANDEM WALL												
Unit Size	Unit Width	Final Wall Depth	SqFt/ Pallet	Face SqFt/ Pallet	Face SqFt/ Layer	Unit/ Pallet	Layer/ Pallet	Unit/ Layer	SqFt/ Unit	Unit/ SqFt	Weight/ Layer	Weight/ Pallet
Small Unit	13.2"	12"	19.2	9.6	.96	30	-	3	.64	1.56	-	-
Medium Unit	15.8"	12"	23.1	11.55	1.155	30	-	3	.77	1.3	-	-
Large Unit	18.5"	12"	27	13.5	1.35	30	-	3	.90	1.11	-	-
Total	-	-	70.1	35	3.5	90	10	9	-	-	208.2 lbs	2082 lbs

Tandem Wall Cap											
Unit Height	Unit Width	Unit Depth	Unit/ Pallet	LnFt/ Pallet	Layer/ Pallet	Unit/ Layer	LnFt/ Unit	Unit/ LnFt	Weight/ layer	Weight/ Pallet	
3.24"	24"	15"	32	64	5	16	2	.5	584	2920	

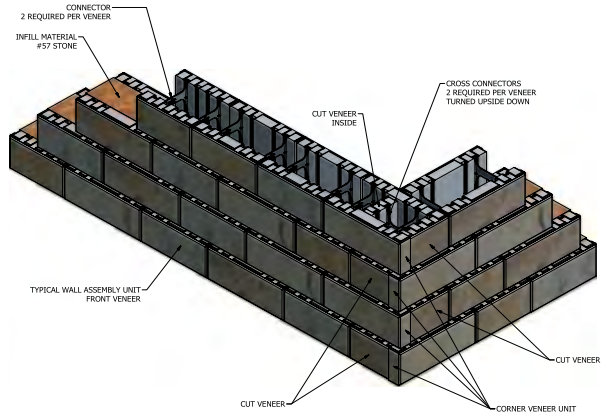
TANDEM SEGMENTAL RETAINING WALL GUIDE

NOTE:

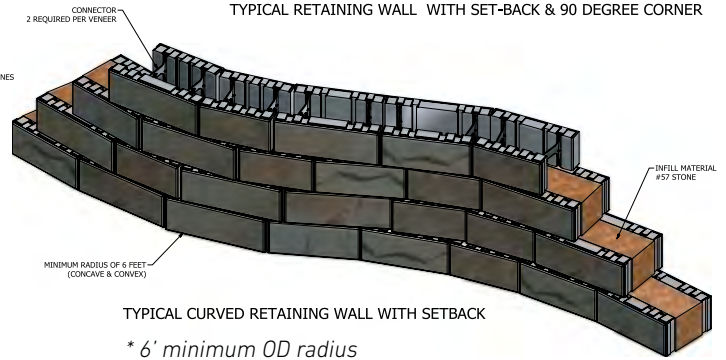
- 1-The base shall be made of starter units
- 2-Center Tandem veneer units on starter units.
- 3-The base foundation shall be approved by the site geotechnical engineer prior to placement of the starter units.
- 4-Backfill is typically on site soil unless otherwise shown on the plans.



TYPICAL WALL BASE PAD ISOMETRIC VIEW

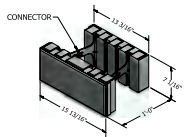


TYPICAL RETAINING WALL WITH SET-BACK & 90 DEGREE CORNER

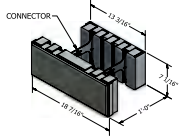


TYPICAL CURVED RETAINING WALL WITH SETBACK

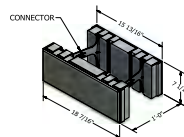
* 6' minimum OD radius



TYPICAL SMALL RADIUS ASSEMBLY WEIGHT: 41 lbs



TYPICAL MEDIUM RADIUS ASSEMBLY WEIGHT: 44 lbs

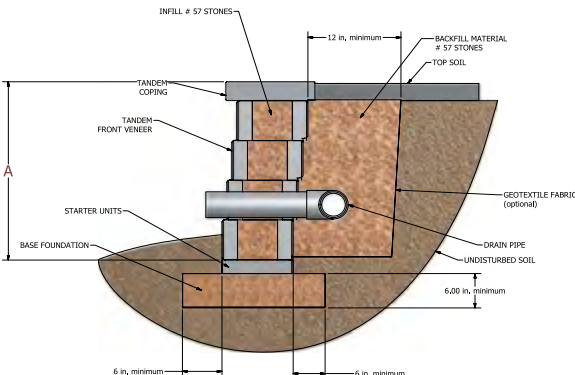


TYPICAL LARGE RADIUS ASSEMBLY WEIGHT: 48 lbs

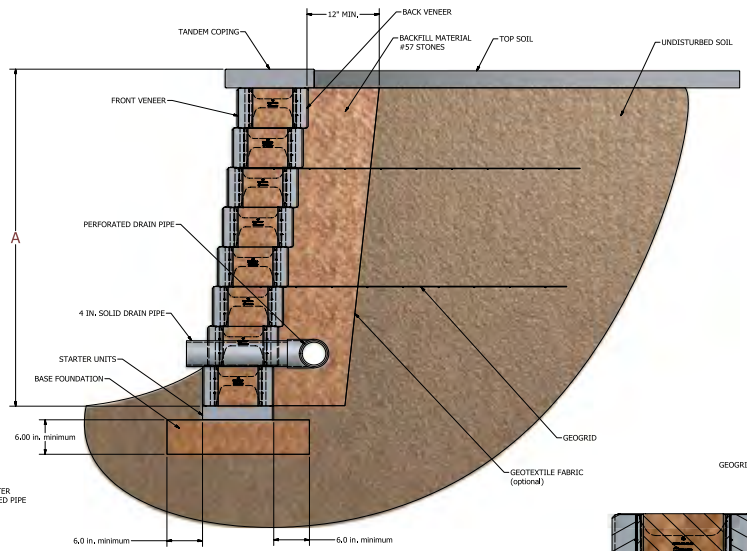
TANDEM SEGMENTAL RETAINING WALL SECTION VIEWS

NOTE:

1. Base material shall be constructed of crushed stone. Center Lafitt Tandem units on leveling pad or foundation blocks or 2,000psi unreinforced lean concrete leveling pad.
2. The base foundation shall be approved by the geotechnical engineer prior to placement of the leveling pad.
3. Upper level of wall units not showing infill material in order to show connectors.
4. Backfill is typically onsite soil unless otherwise shown on the plans.



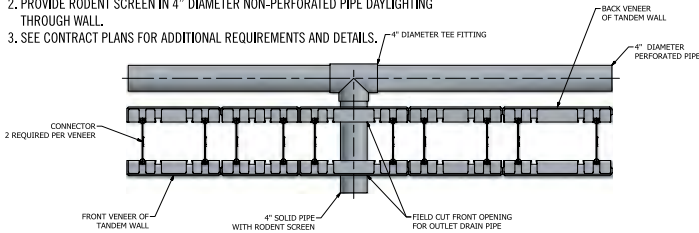
TYPICAL CROSS SECTION



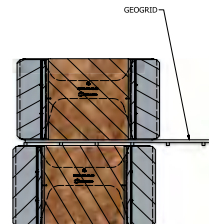
TYPICAL SECTION WITH GEOGRID

NOTE:

1. THE DRAINAGE SYSTEM SHALL CONSIST OF A 4" DIAMETER PERFORATED PVC PIPE WRAPPED WITH A GEOTEXTILE FABRIC.
2. PROVIDE RODENT SCREEN IN 4" DIAMETER NON-PERFORATED PIPE DAYLIGHTING THROUGH WALL.
3. SEE CONTRACT PLANS FOR ADDITIONAL REQUIREMENTS AND DETAILS.

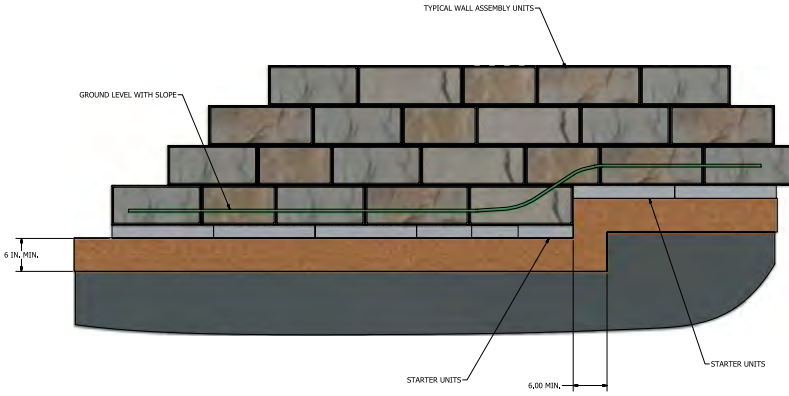


TYPICAL DRAINAGE OUTLET THRU WALL FACE DETAIL

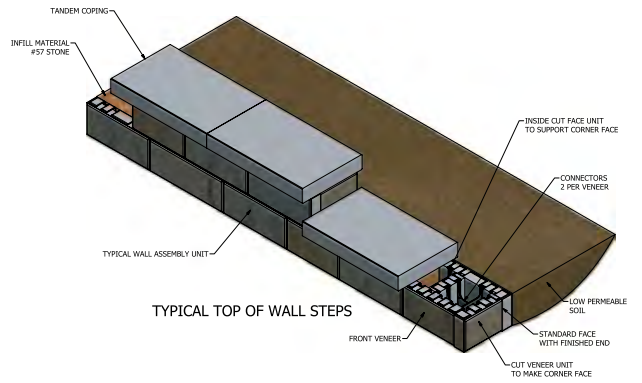


DETAIL C SCALE 1 / 4

SEGMENTAL RETAINING WALL TYPICAL DETAIL VIEWS

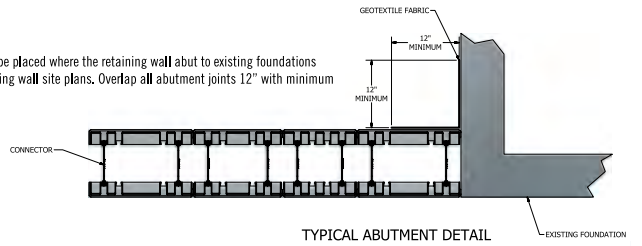


TYPICAL ELEVATION WALL WITH SLOPE



TYPICAL TOP OF WALL STEPS

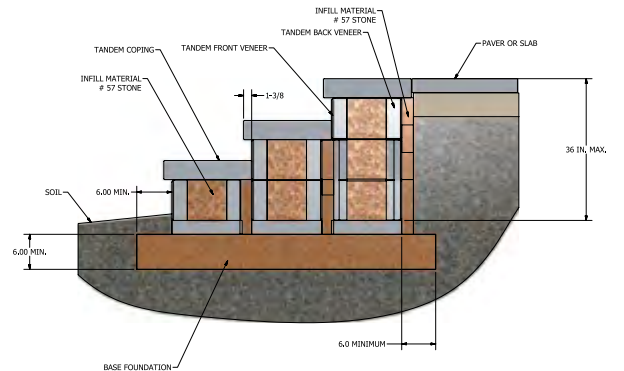
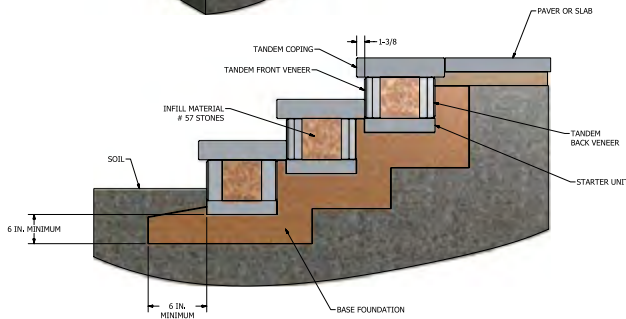
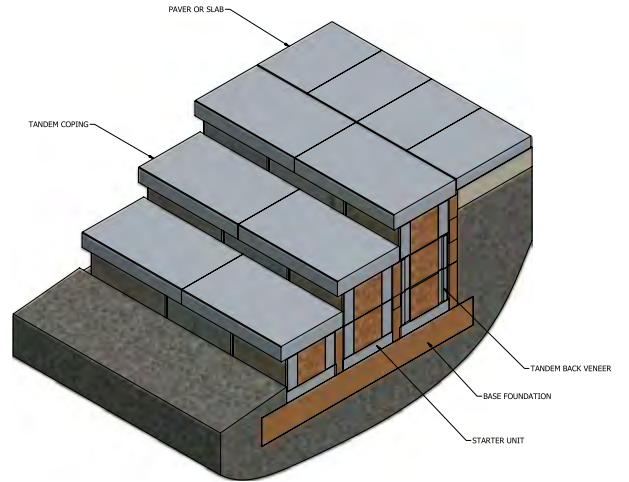
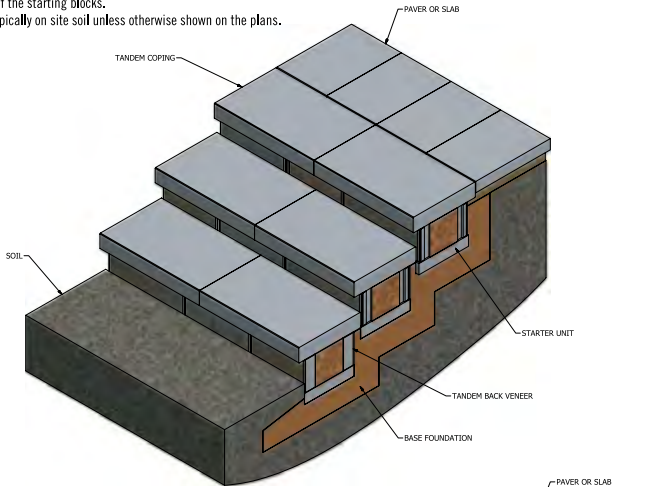
NOTE:
1. Geotextile fabric shall be placed where the retaining wall abut to existing foundations as shown on the retaining wall site plans. Overlap all abutment joints 12" with minimum 24" fabric.



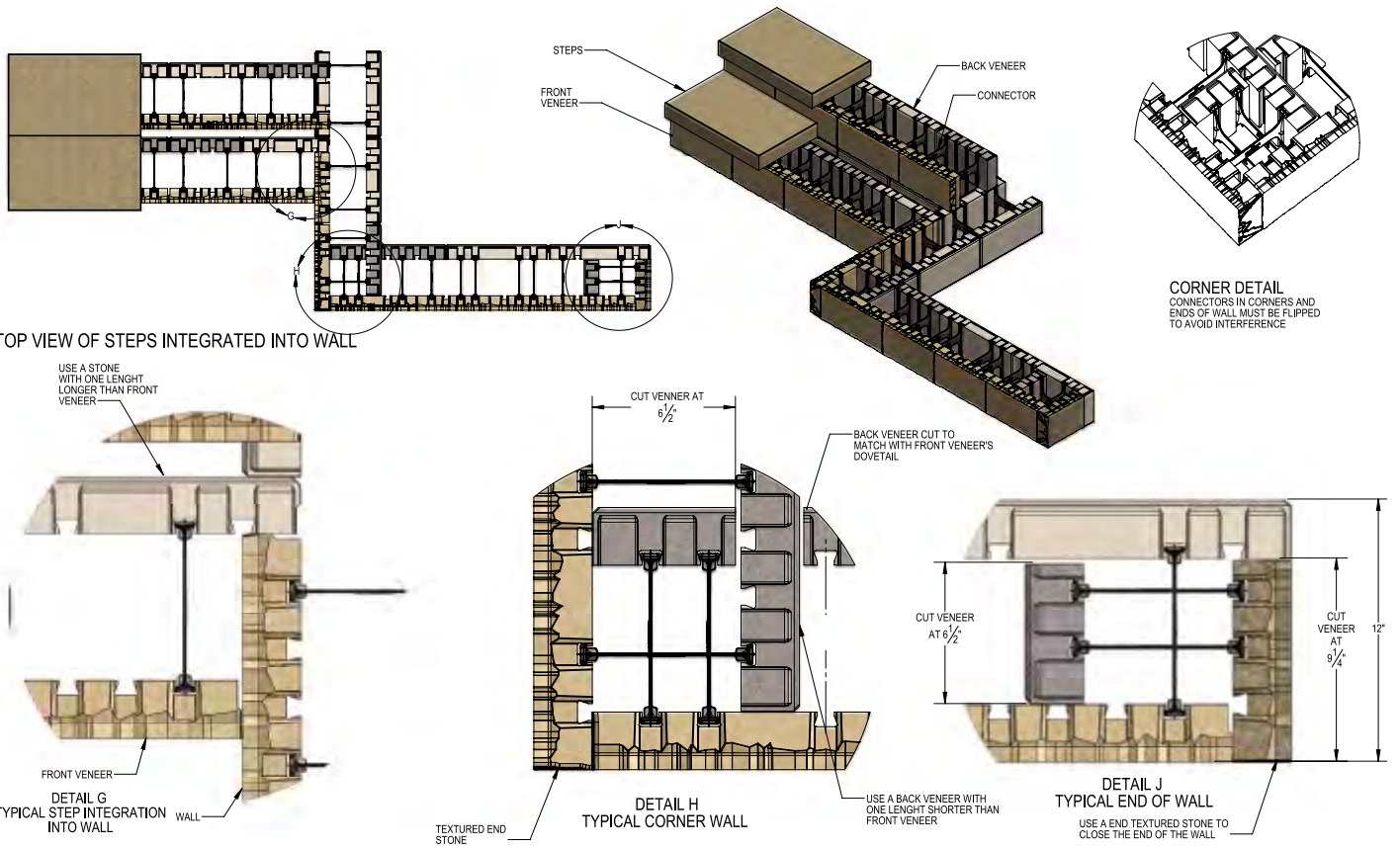
TYPICAL ABUTMENT DETAIL

STEP DETAIL VIEWS

NOTE:
1-The base shall be made of starting blocks
2-Center Tandem face units on starting units.
3-The base foundation shall be approved by the site geotechnical engineer prior to placement of the starting blocks.
4-Backfill is typically on site soil unless otherwise shown on the plans.



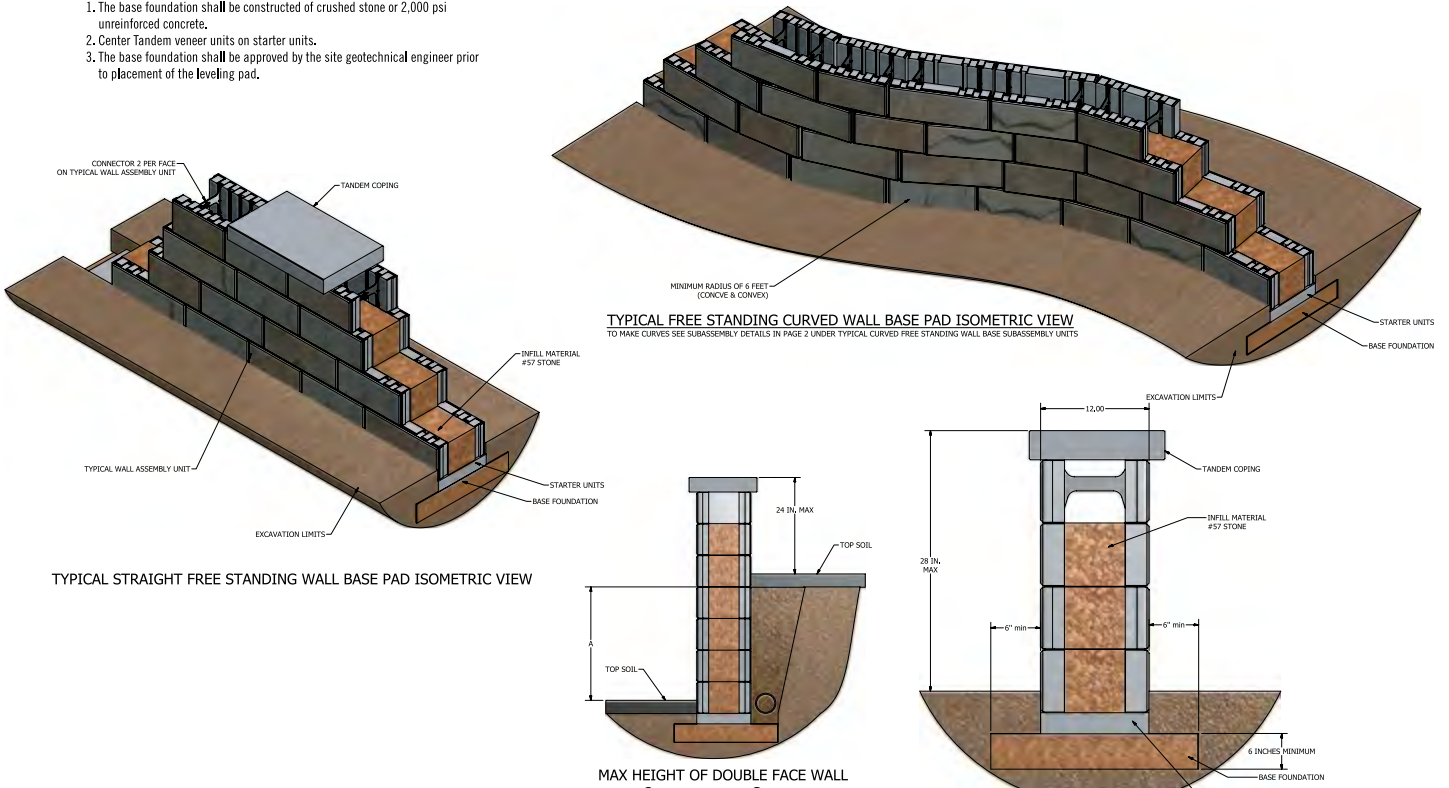
STEPS & CORNERS



FREE STANDING WALLS

NOTE:

1. The base foundation shall be constructed of crushed stone or 2,000 psi unreinforced concrete.
2. Center Tandem veneer units on starter units.
3. The base foundation shall be approved by the site geotechnical engineer prior to placement of the leveling pad.



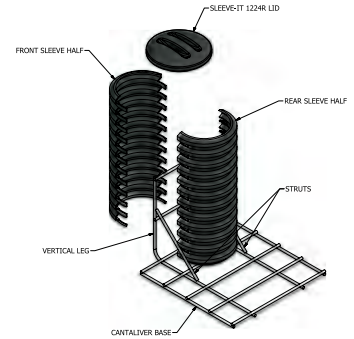
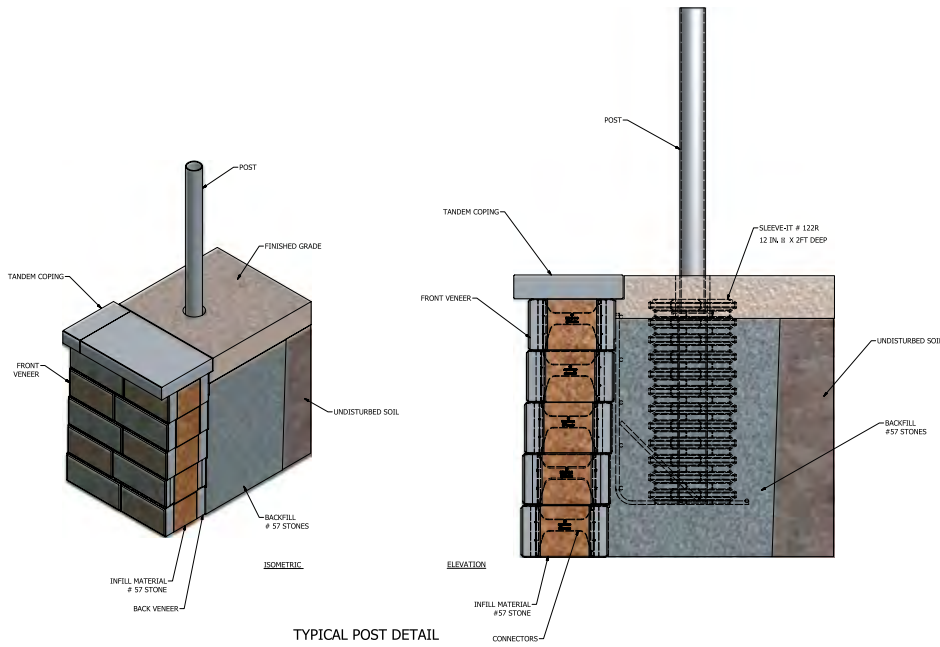
POST DETAIL VIEWS

NOTE:

1. Cut through geogrid layers.
2. Fencing systems approved for use with Sleeve-it 1224R are limited to the following heights: Chain link - up to 8 ft., Privacy-up to 6 ft (wooden, PVC, metal) Pedestrian Guards: 4ft max, Post size 4 x 4 maximum.
3. Designed by others.
4. A geotextile filter fabric separator is required between the unit drainage material and site backfill soil in any application where free water is expected upon the wall face such as in a detention pond or along waterways where the high water level may be above the bottom of the wall. Use of filter fabric shall extend a minimum of 1 foot above the anticipated high water level.
5. A fence, railing, guide rail/fence or other protective barrier is typically required along the top of all walls as required by the site engineer and local codes. The choice, location, and compliance to local codes of the appropriate barrier system is the responsibility of the owner and its site engineer.
6. Backfill is typically onsite soil unless otherwise shown in the plans.

(OPTIONAL)

7. Geotextile fabric as specified by the designing engineer is shown on the back face of the walls, it is recommended to be used to prevent native soils from infiltrating into the infill material.



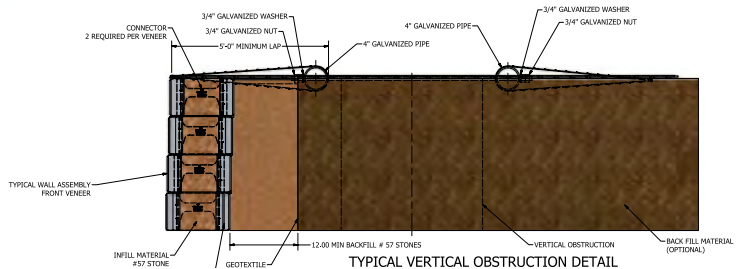
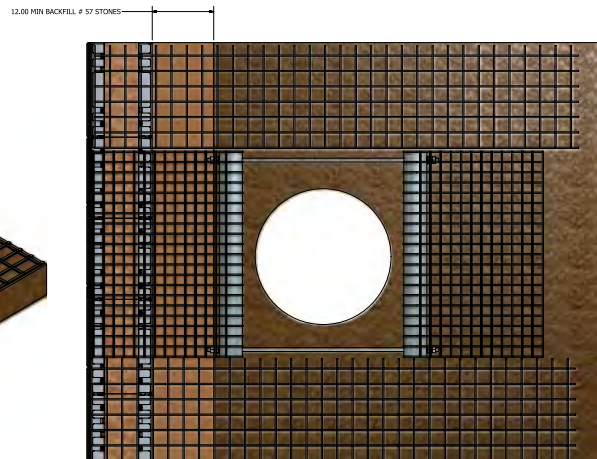
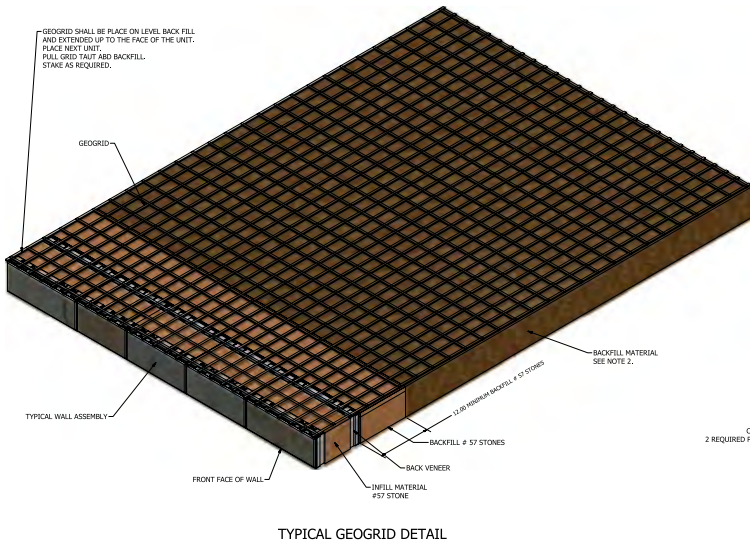
TYPICAL GEOGRID INSTALLATION WITH DRAIN

NOTE:

1. Geogrid shall be placed on level backfill and extended over connector and up to the face of the unit, pull grid taut and backfill. Stake as required.
2. Backfill is typically onsite soil unless otherwise shown in the plans.
3. Geotextile fabric as specified by the designing engineer is shown on the back face of the walls, it is recommended to be used to prevent native soils from infiltrating into the infill material.

NOTE:

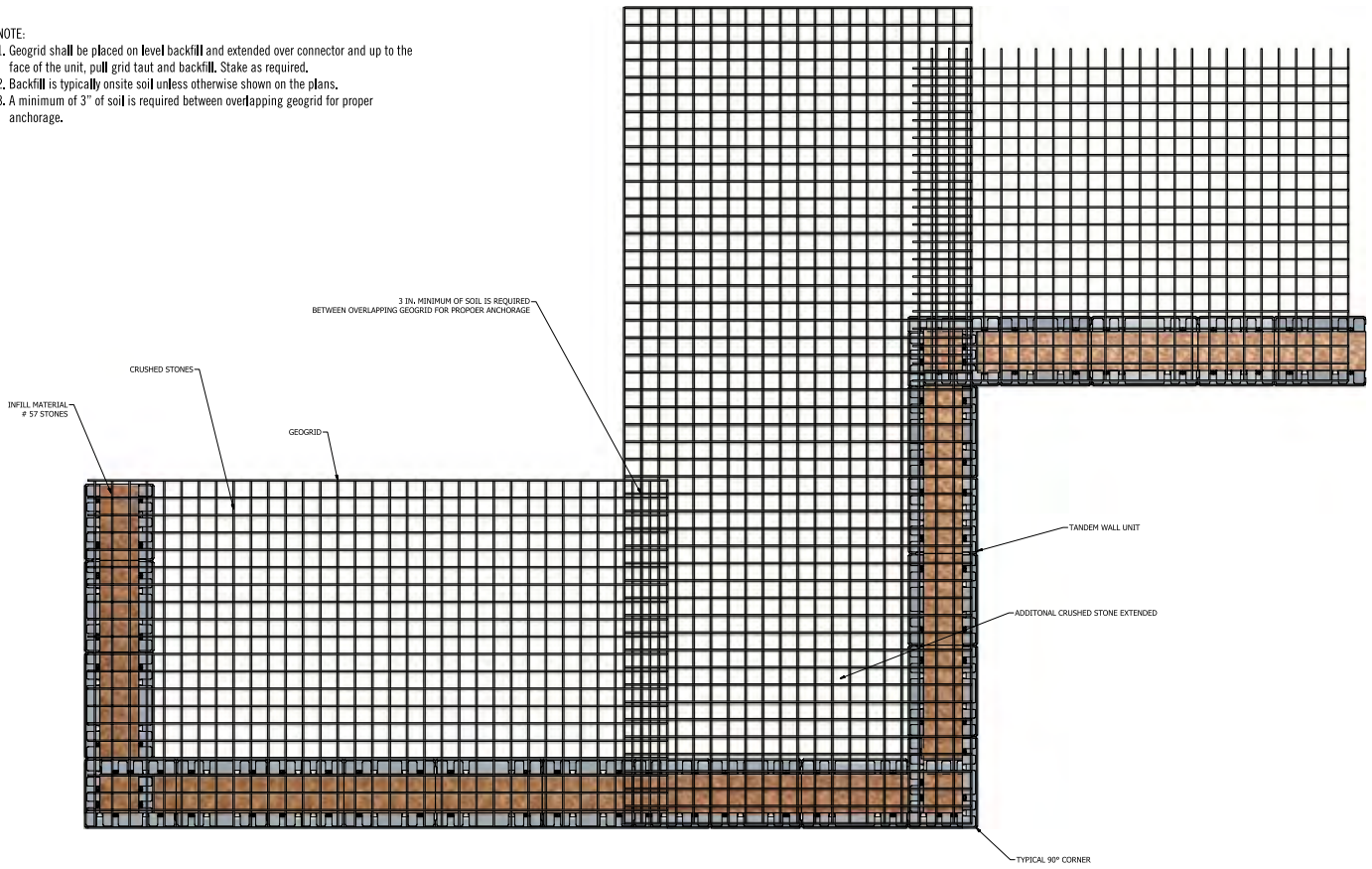
1. Redirect geogrid above drainage pipes as required to avoid obstructions with drainage pipes extending transversely through the reinforced zone.
2. Reinforce the walls at the vertical obstruction as shown.
3. Backfill is typically onsite soil unless otherwise shown in the plans.



TYPICAL GEOGRID INSTALLATION WITH CORNERS

NOTE:

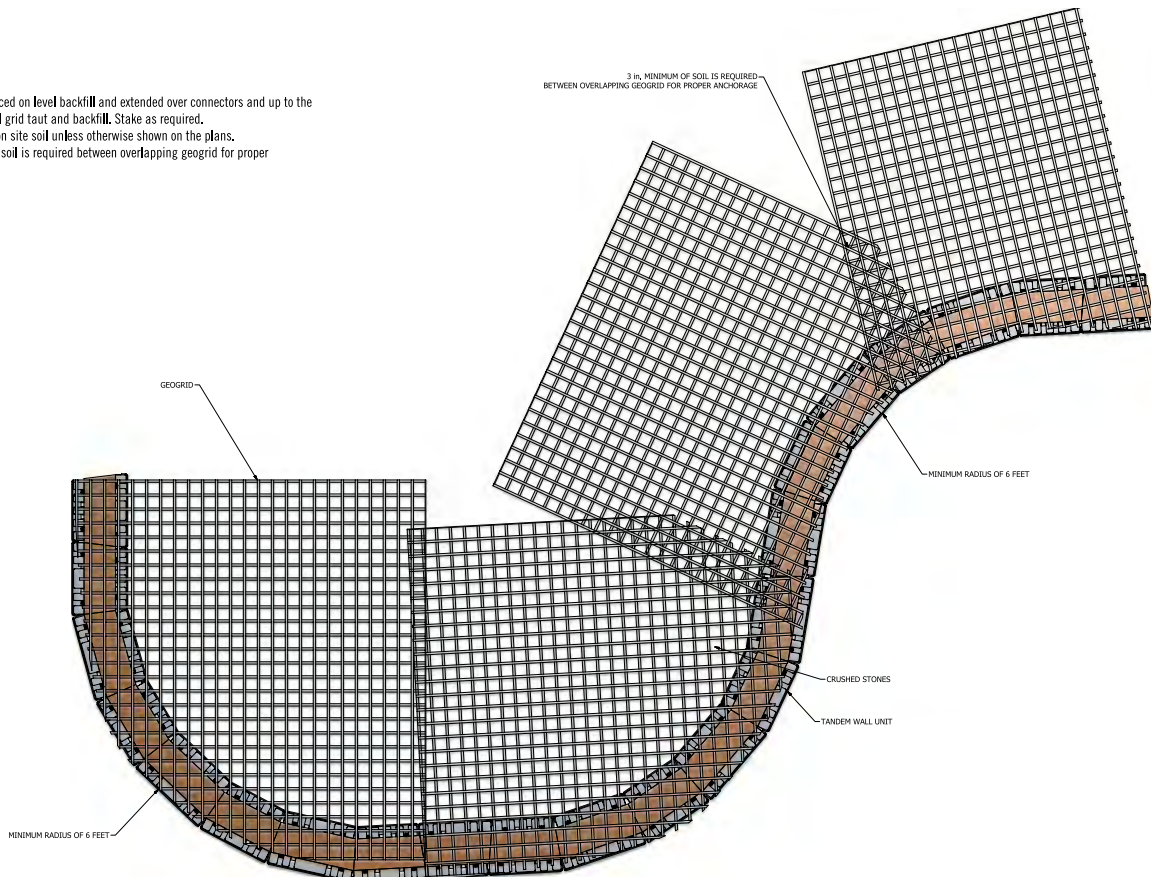
1. Geogrid shall be placed on level backfill and extended over connector and up to the face of the unit, pull grid taut and backfill. Stake as required.
2. Backfill is typically onsite soil unless otherwise shown on the plans.
3. A minimum of 3" of soil is required between overlapping geogrid for proper anchorage.



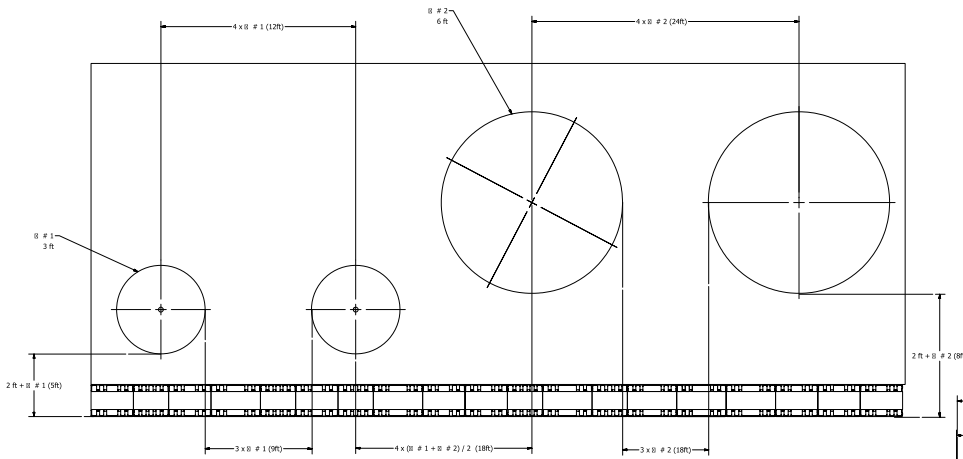
TYPICAL GEOGRID INSTALLATION IN CURVES

NOTE:

- 1-Geogrid shall be placed on level backfill and extended over connectors and up to the face of the unit, pull grid taut and backfill. Stake as required.
- 2-Backfill is typically on site soil unless otherwise shown on the plans.
3. A minimum of 3" of soil is required between overlapping geogrid for proper anchorage.

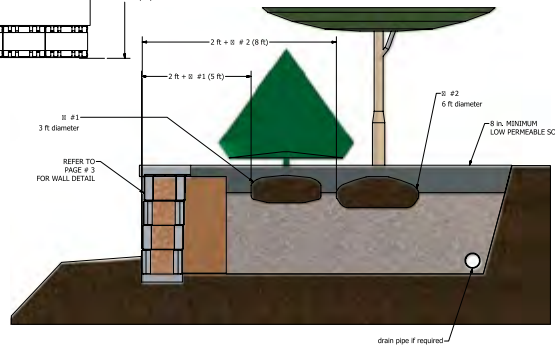


TYPICAL WALL TREE PLANTING DETAILS



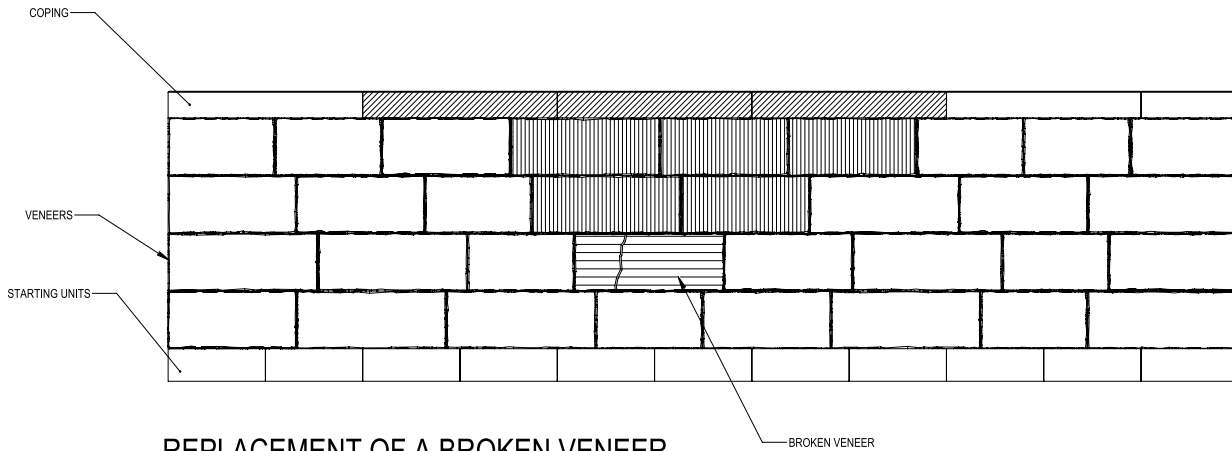
PLAN VIEW

- NOTE:
- 1- All planting offsets shall be a minimum of 2 feet + the opening diameter as measured from face of the wall
 - 2- Lateral spacing between openings shall be a minimum of 3 times the opening diameter.
 - 3- Soil reinforcement shall be carefully cut to avoid disturbance of adjacent reinforcement.
 - 4- Only top two layers of reinforcement may be cut to allow planting of tree root ball.
 - 5- Extreme care shall be taken if installing irrigation systems to not damage soil reinforcement.
 - 6- Numbers in parenthesis are for example only.






SECTION VIEW

BROKEN VENEER REPLACEMENT



REPLACEMENT OF A BROKEN VENEER

BEFORE REPLACING THE BROKEN VENEER, REMOVE ALL THE VENEERS AND COPINGS FROM TOP OF IT IN A "V" SHAPE. ONCE THE AGREGATES ARE DRAIN FROM THAT SPACE, REPLACE THE BROKEN VENEER AND PUT BACK THE OTHER VENEERS BEFORE REFILLING THE WALL.

-  BROKEN VENEER
-  VENEER TO REMOVE
-  COPING TO REMOVE

TANDEM® WALL COLUMN

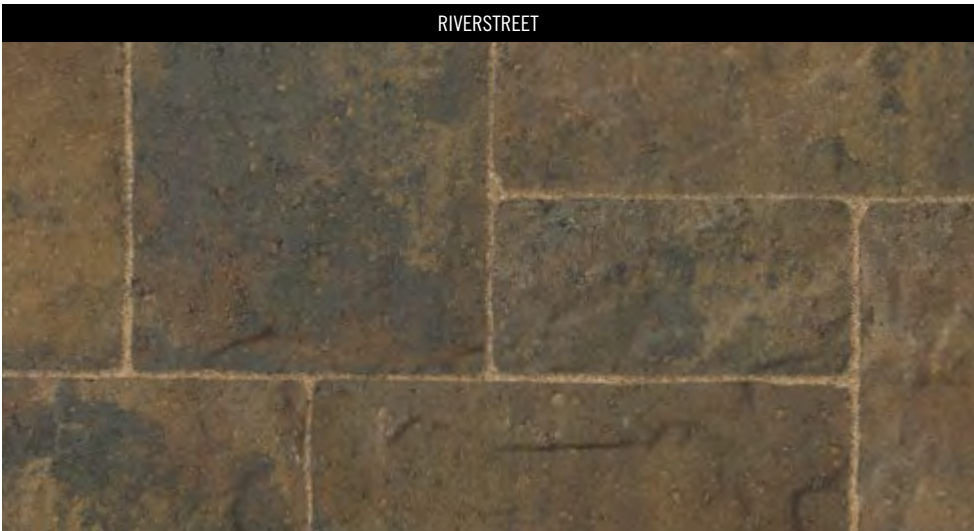
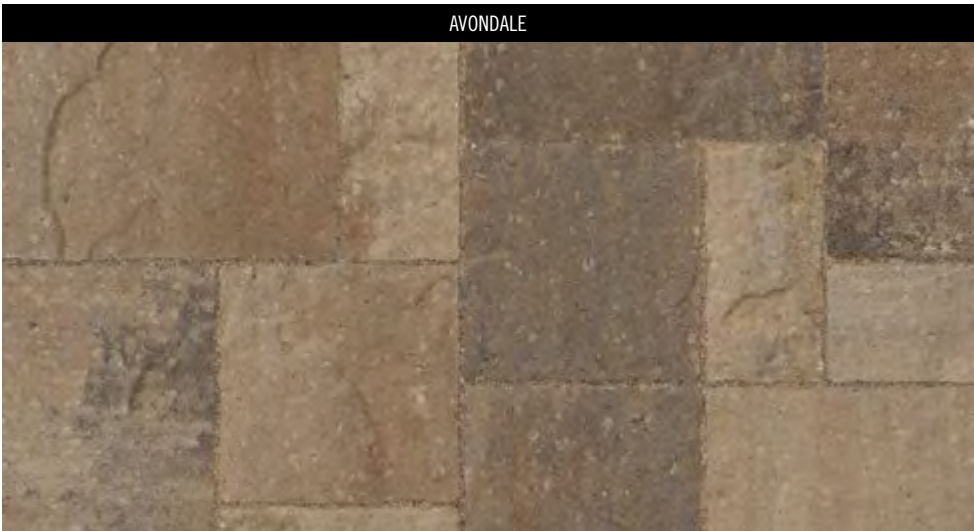


RESIDENTIAL	COMMERCIAL	STEPS	COLUMNS	FIREPIT	RETAINING WALLS
✓			✓		

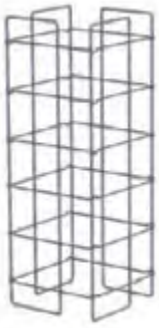
PRODUCT SPECIFICATIONS

Final swatch selection should always be verified with physical samples.

A	Tandem Column Veneer	
	7 x 18 x 3	
B	Tandem Column Clip	
C	Wire Frame	



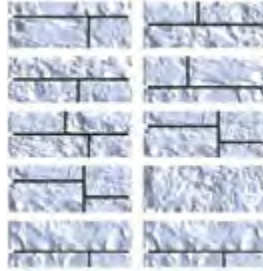
TANDEM™ COLUMN COMPONENTS



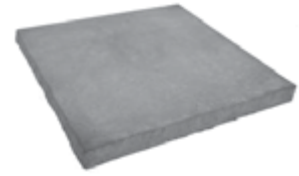
1 Column grid



Connectors:
50 Pieces per bag
(Enough for one column)



Pallet contains enough veneers to complete two 42" walls.



25" x 25" Cap Unit

STEP 1



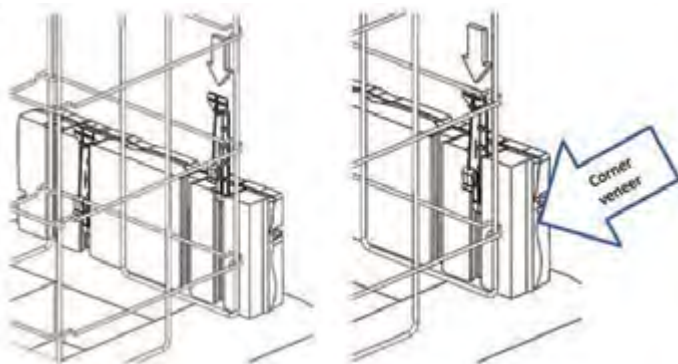
Place the grid on a prepared surface

STEP 2



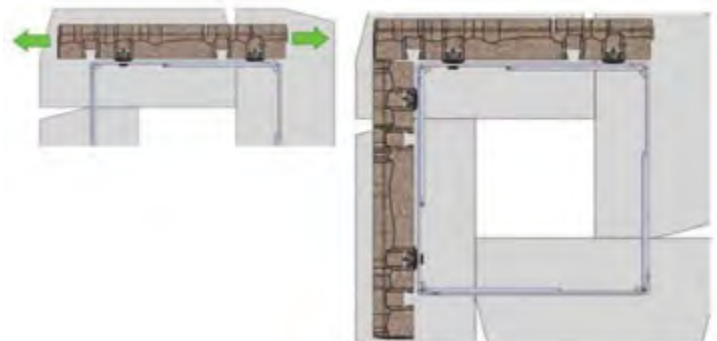
Make sure the outside perimeter of the grid is clear

STEP 3



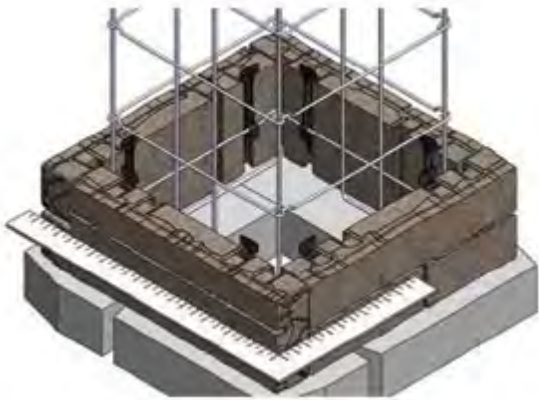
Take a veneer and slide the supplied connectors into the dovetails until they snap onto the horizontal rod of the grid.

STEP 4



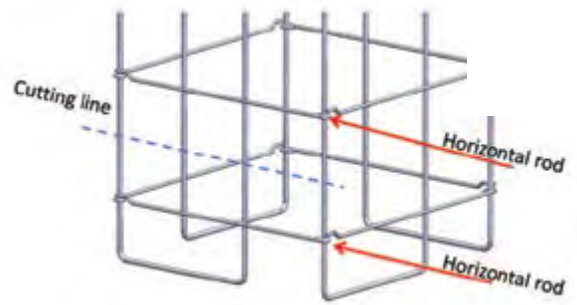
Take another stone and repeat the same process. Make sure you have a corner stone to finish the corner. Once installed, slide the stone along the horizontal axis to adjust the corner.

STEP 5



Once you have completed the first two rows, use a square to make sure the column is square and then fill the space with 3/4" clear aggregate. Fill the empty space with aggregates at every row.

OPTIONAL



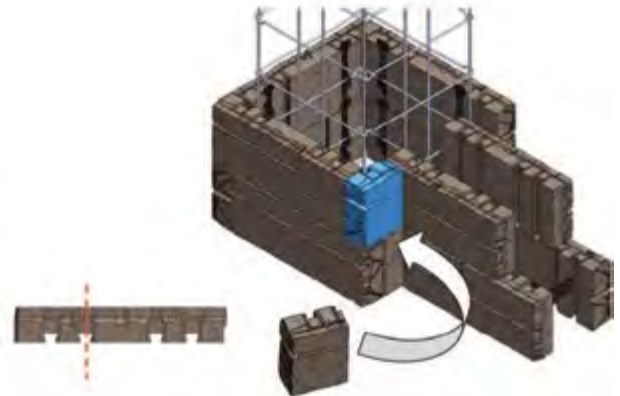
If you have to cut the grid before installation on the base, you must cut the vertical rod at mid distance between two horizontal rods as shown below.

STEP 6



To integrate a wall into the column you must cut a veneer every two rows. The cut must be done at the middle of the dovetail.

STEP 7



At the second row, cut a veneer (other than G format) at their middle of the selected dovetail to fit with the space left.

STEP 8



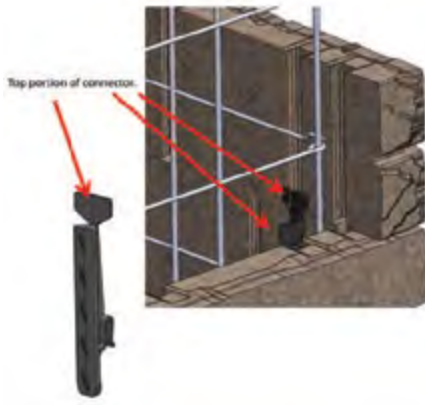
Make the same at the opposite side.

STEP 9



Start again with a full veneer to cover the wall.

STEP 10



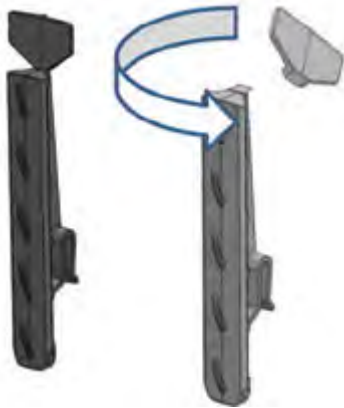
IMPORTANT
When you are starting the second row, make sure the base of the top veneer hits the top portion of the connector.

STEP 11



When you have reach the last row, cut the top portion of the connectors with pliers snippers or just by twisting the top portion with your hands.

STEP 12



Apply glue on the top of the veneers before putting on the capping. **IMPORTANT:**
The capping must lay on the veneers , not on the grid.

Tandem Wall Column Kit (includes 1 bag of 30 connectors)

Unit Width	Unit Height	SqFt/ Pallet	SqFt/ Layer	Unit/ Pallet	Layer/ Pallet	Unit/ Layer	Column/ Pallet	Weight/ Layer	Weight/ Pallet
18.5"	7"	43.43	9	50	5	10	2	280	1400

TANDEM® MODULAR GRID



RESIDENTIAL	COMMERCIAL	STEPS	COLUMNS	FIREPIT	RETAINING WALLS	MAILBOX
✓				✓		

PRODUCT SPECIFICATIONS

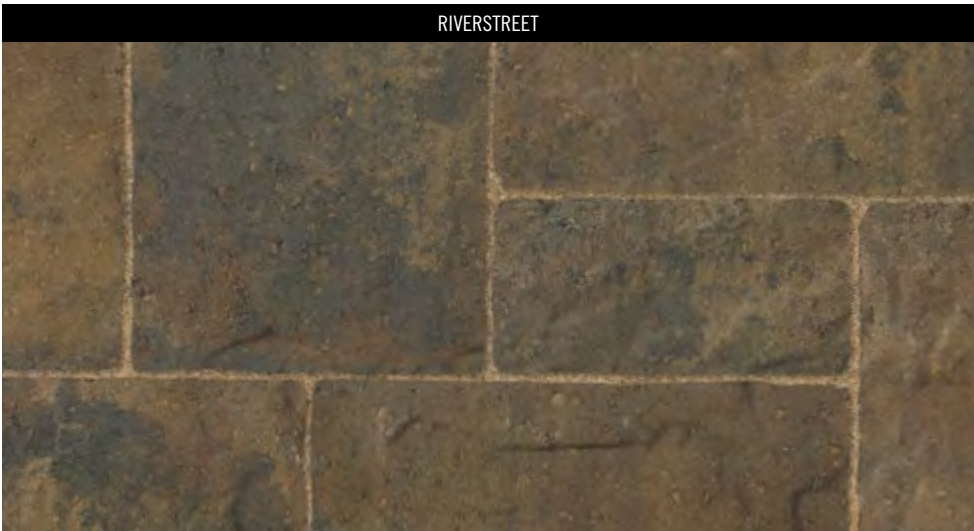
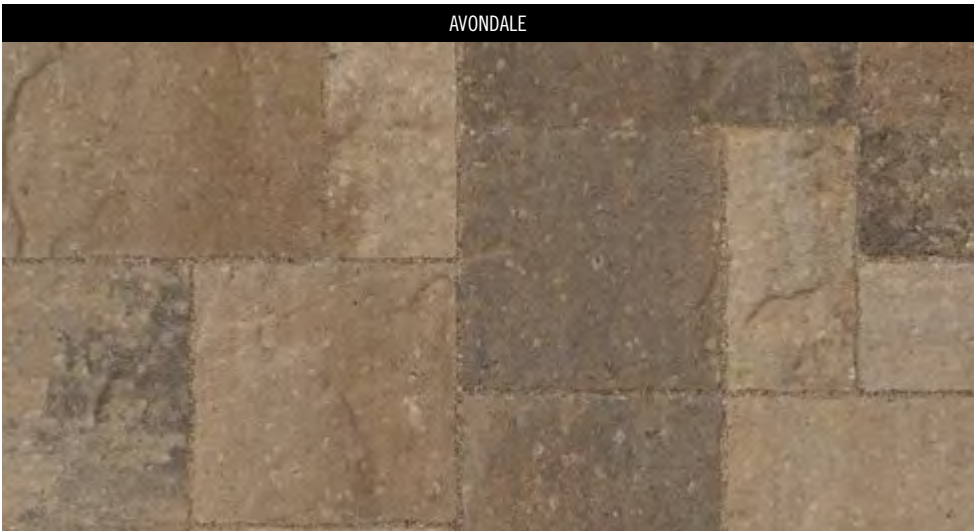
Final swatch selection should always be verified with physical samples.

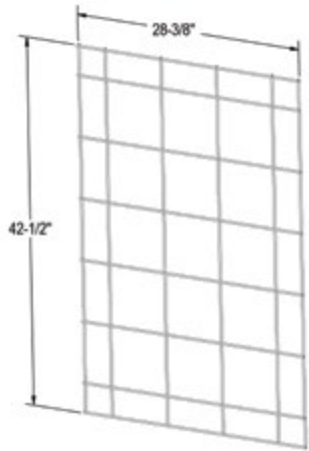
A	Tandem Veneer Unit
7 x 18 x 3	

B	Tandem Connector

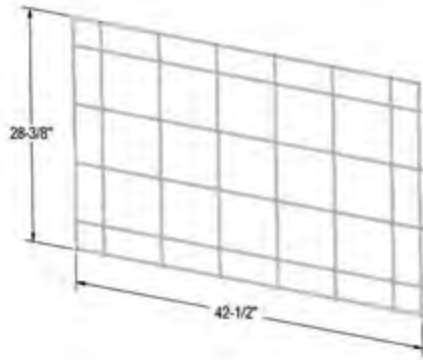
C	Modular Horizontal Grid

	Modular Vertical Grid





Modular Grid-Vertical



Modular Grid-Horizontal



Connector

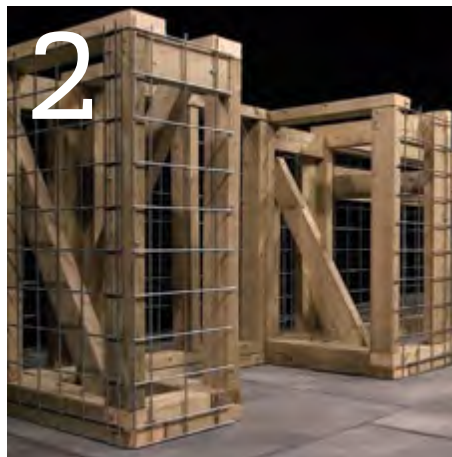


Tandem Veneer Unit*

*Tandem Veneer available in three sizes.



Build your wooden frame



Attach your Modular Grid



Attach Tandem Veneer with Connector

WESTON STONE®

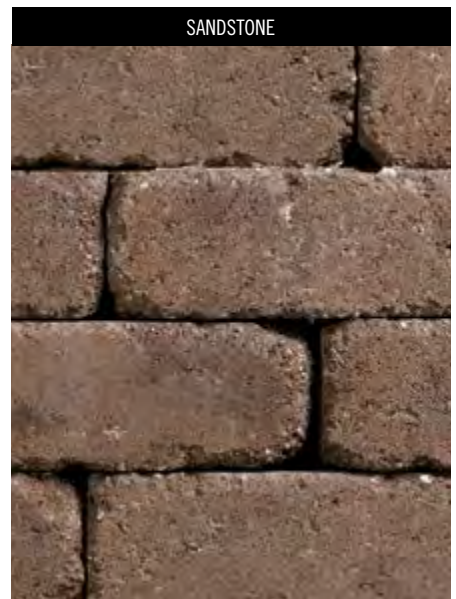
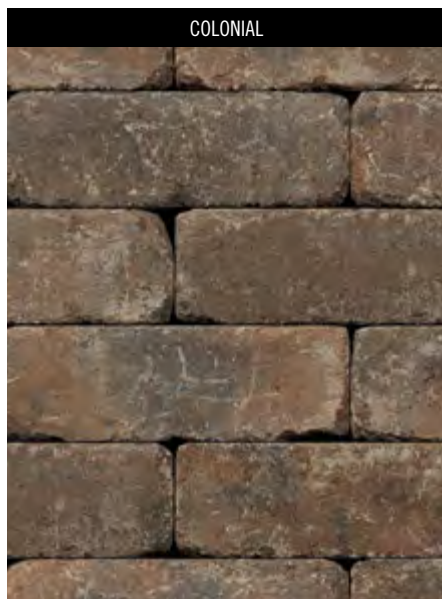
Freestanding & Retaining Wall



RESIDENTIAL	COMMERCIAL	STEPS	COLUMNS	FIREPIT	RETAINING WALLS	FINISHES
						TUMBLED/ ANTIQUED
✓		✓	✓	✓	✓	✓

PRODUCT SPECIFICATIONS

A	Westgate Coping / Cap	B	Weston Stone
10 x 12 x 2 3/8		4 x 12 x 8	



WESTON STONE LAYING GUIDE

Level Backfill		Gravel (= 34?)					Sand (= 30?)					Clay (= 28?)				
		H (feet)	D (feet)	L (feet)	layers	VERSA-Grid	H (feet)	D (feet)	L (feet)	layers	VERSA-Grid	H (feet)	D (feet)	L (feet)	layers	VERSA-Grid
		4	0.5	0	0	n/a	4	0.5	4.0	1	VG 3.0	4	0.5	4.0	1	VG 3.0
		5	0.5	3.5	2	VG 3.0	5	0.5	4.0	2	VG 3.0	5	0.5	4.5	2	VG 3.0
		6	0.5	4.0	2	VG 3.0	6	0.5	4.5	2	VG 3.0	6	0.5	5.0	2	VG 3.0
		7	1.0	5.0	3	VG 3.0	7	1.0	5.5	3	VG 3.0	7	1.0	5.5	3	VG 3.0
		8	1.0	5.5	4	VG 3.0	8	1.0	6.0	4	VG 3.0	8	1.0	6.0	4	VG 3.0
		9	1.0	6.0	4	VG 3.0	9	1.0	6.5	5	VG 3.0	9	1.0	6.5	5	VG 3.0
		10	1.0	6.5	5	VG 3.0	10	1.0	7.0	5	VG 3.0	10	1.0	7.0	6	VG 3.0
		12	1.0	8.0	6	VG 3.0	12	1.0	8.5	7	VG 3.0	12	1.0	8.5	7	VG 3.0

Sloping Backfill		Gravel (= 34?)					Sand (= 30?)					Clay (= 28?)				
		H (feet)	D (feet)	L (feet)	layers	VERSA-Grid	H (feet)	D (feet)	L (feet)	layers	VERSA-Grid	H (feet)	D (feet)	L (feet)	layers	VERSA-Grid
		4	0.5	4.0	1	VG 3.0	4	0.5	4.5	1	VG 3.0	4	0.5	4.5	2	VG 3.0
		5	0.5	4.0	2	VG 3.0	5	0.5	4.5	2	VG 3.0	5	0.5	5.5	2	VG 3.0
		6	0.5	4.5	3	VG 3.0	6	0.5	5.5	3	VG 3.0	6	0.5	6.0	3	VG 3.0
		7	1.0	5.5	4	VG 3.0	7	1.0	6.5	4	VG 3.0	7	1.0	8.0	4	VG 3.0
		8	1.0	6.0	4	VG 3.0	8	1.0	7.0	5	VG 3.0	8	1.0	9.5	5	VG 3.0
		9	1.0	6.5	5	VG 3.0	9	1.0	8.0	6	VG 3.0	9	1.0	11.0	6	VG 3.0
		10	1.0	7.5	6	VG 3.0	10	1.0	8.5	6	VG 3.0	10	1.0	12.0	6	VG 5.0
		12	1.0	8.5	7	VG 3.0	12	1.0	10.0	7	VG 5.0	12	1.0	15.0	7	VG 5.0

Surcharge Backfill		Gravel (= 34?)					Sand (= 30?)					Clay (= 28?)				
		H (feet)	D (feet)	L (feet)	layers	VERSA-Grid	H (feet)	D (feet)	L (feet)	layers	VERSA-Grid	H (feet)	D (feet)	L (feet)	layers	VERSA-Grid
		4	0.5	4.0	2	VG 3.0	4	0.5	4.5	2	VG 3.0	4	0.5	5.5	2	VG 3.0
		5	0.5	4.5	2	VG 3.0	5	0.5	5.5	2	VG 3.0	5	0.5	6.0	2	VG 3.0
		6	0.5	5.0	3	VG 3.0	6	0.5	6.0	3	VG 3.0	6	0.5	6.5	3	VG 3.0
		7	1.0	6.0	4	VG 3.0	7	1.0	7.0	4	VG 3.0	7	1.0	7.5	4	VG 3.0
		8	1.0	6.5	4	VG 3.0	8	1.0	7.5	5	VG 3.0	8	1.0	8.0	5	VG 3.0
		9	1.0	7.0	5	VG 3.0	9	1.0	8.5	5	VG 3.0	9	1.0	9.0	5	VG 3.0
		10	1.0	7.5	5	VG 3.0	10	1.0	9.0	6	VG 3.0	10	1.0	9.5	6	VG 3.0
		12	1.0	9.0	7	VG 3.0	12	1.0	10.0	7	VG 5.0	12	1.0	11.0	7	VG 5.0

For more pattern options visit belgard.com/products/retaining_walls

PALLET INFORMATION / ESTIMATING CHART

WESTGATE COPING CAP

SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	LnFt/ Pallet	LnFt/ Layer	LnFt/ Unit	Units/ LnFt	Weight/ Layer	Weight/ Pallet
-	-	5	80	16	80	16	1	1	352 lbs	1760 lbs

WESTON STONE

SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	LnFt/ Pallet	LnFt/ Layer	LnFt/ Unit	Units/ LnFt	Weight/ Layer	Weight/ Pallet
39.96	6.66	6	120	20	120	12	3.003	.333	640 lbs	3840 lbs

NOTES

WESTON STONE® 3-PIECE

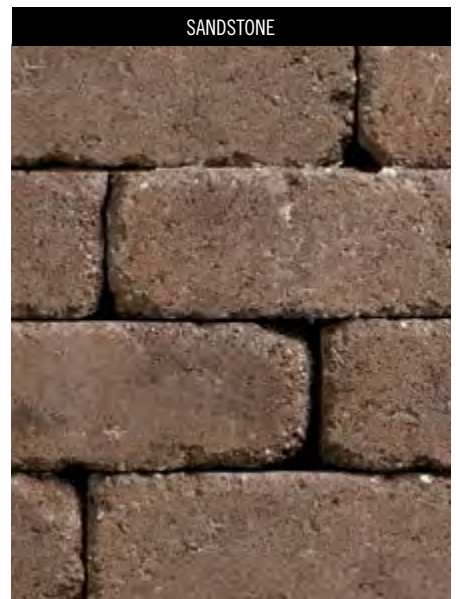
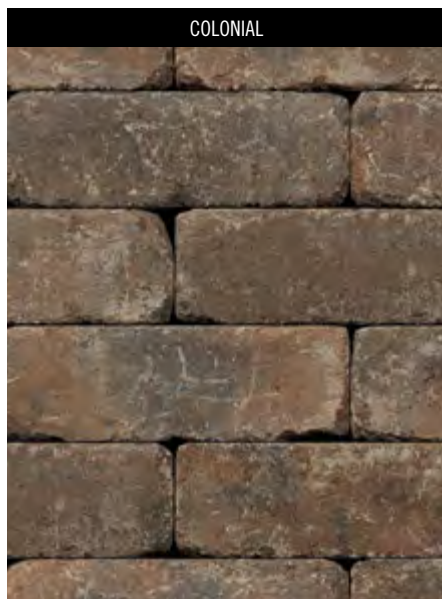
Freestanding & Retaining Wall



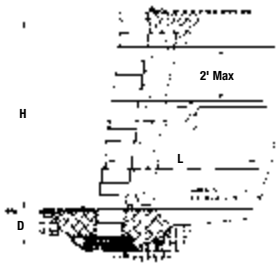
RESIDENTIAL	COMMERCIAL	STEPS	COLUMNS	FIREPIT	RETAINING WALLS	FINISHES
						TUMBLED/ ANTIQUED
✓		✓		✓	✓	✓

PRODUCT SPECIFICATIONS

Weston Stone 3-Piece	
4 x 8 x 8	
4 x 12 x 8	
4 x 16 x 8	



Level Backfill



Gravel (= 34?)

H (feet)	D (feet)	L (feet)	layers	VERSA-Grid
4	0.5	0	0	n/a
5	0.5	3.5	2	VG 3.0
6	0.5	4.0	2	VG 3.0
7	1.0	5.0	3	VG 3.0
8	1.0	5.5	4	VG 3.0
9	1.0	6.0	4	VG 3.0
10	1.0	6.5	5	VG 3.0
12	1.0	8.0	6	VG 3.0

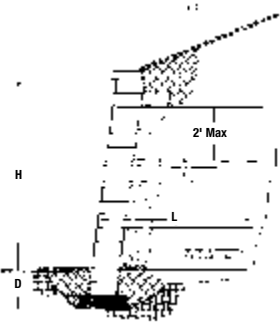
Sand (= 30?)

H (feet)	D (feet)	L (feet)	layers	VERSA-Grid
4	0.5	4.0	1	VG 3.0
5	0.5	4.0	2	VG 3.0
6	0.5	4.5	2	VG 3.0
7	1.0	5.5	3	VG 3.0
8	1.0	6.0	4	VG 3.0
9	1.0	6.5	5	VG 3.0
10	1.0	7.0	5	VG 3.0
12	1.0	8.5	7	VG 3.0

Clay (= 28?)

H (feet)	D (feet)	L (feet)	layers	VERSA-Grid
4	0.5	4.0	1	VG 3.0
5	0.5	4.5	2	VG 3.0
6	0.5	5.0	2	VG 3.0
7	1.0	5.5	3	VG 3.0
8	1.0	6.0	4	VG 3.0
9	1.0	6.5	5	VG 3.0
10	1.0	7.0	6	VG 3.0
12	1.0	8.5	7	VG 3.0

Sloping Backfill



Gravel (= 34?)

H (feet)	D (feet)	L (feet)	layers	VERSA-Grid
4	0.5	4.0	1	VG 3.0
5	0.5	4.0	2	VG 3.0
6	0.5	4.5	3	VG 3.0
7	1.0	5.5	4	VG 3.0
8	1.0	6.0	4	VG 3.0
9	1.0	6.5	5	VG 3.0
10	1.0	7.5	6	VG 3.0
12	1.0	8.5	7	VG 3.0

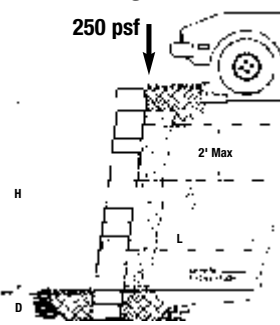
Sand (= 30?)

H (feet)	D (feet)	L (feet)	layers	VERSA-Grid
4	0.5	4.5	1	VG 3.0
5	0.5	4.5	2	VG 3.0
6	0.5	5.5	3	VG 3.0
7	1.0	6.5	4	VG 3.0
8	1.0	7.0	5	VG 3.0
9	1.0	8.0	6	VG 3.0
10	1.0	8.5	6	VG 3.0
12	1.0	10.0	7	VG 5.0

Clay (= 28?)

H (feet)	D (feet)	L (feet)	layers	VERSA-Grid
4	0.5	4.5	2	VG 3.0
5	0.5	5.5	2	VG 3.0
6	0.5	6.0	3	VG 3.0
7	1.0	8.0	4	VG 3.0
8	1.0	9.5	5	VG 3.0
9	1.0	11.0	6	VG 3.0
10	1.0	12.0	6	VG 5.0
12	1.0	15.0	7	VG 5.0

Surcharge Backfill



Gravel (= 34?)

H (feet)	D (feet)	L (feet)	layers	VERSA-Grid
4	0.5	4.0	2	VG 3.0
5	0.5	4.5	2	VG 3.0
6	0.5	5.0	3	VG 3.0
7	1.0	6.0	4	VG 3.0
8	1.0	6.5	4	VG 3.0
9	1.0	7.0	5	VG 3.0
10	1.0	7.5	5	VG 3.0
12	1.0	9.0	7	VG 3.0

Sand (= 30?)

H (feet)	D (feet)	L (feet)	layers	VERSA-Grid
4	0.5	4.5	2	VG 3.0
5	0.5	5.5	2	VG 3.0
6	0.5	6.0	3	VG 3.0
7	1.0	7.0	4	VG 3.0
8	1.0	7.5	5	VG 3.0
9	1.0	8.5	5	VG 3.0
10	1.0	9.0	6	VG 3.0
12	1.0	10.0	7	VG 5.0

Clay (= 28?)

H (feet)	D (feet)	L (feet)	layers	VERSA-Grid
4	0.5	5.5	2	VG 3.0
5	0.5	6.0	2	VG 3.0
6	0.5	6.5	3	VG 3.0
7	1.0	7.5	4	VG 3.0
8	1.0	8.0	5	VG 3.0
9	1.0	9.0	5	VG 3.0
10	1.0	9.5	6	VG 3.0
12	1.0	11.0	7	VG 5.0

For more pattern options visit belgard.com/products/retaining_walls

PALLET INFORMATION / ESTIMATING CHART

3-PIECE MODULAR											
Unit Size	SqFt/ Pallet	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	LnFt/ Pallet	LnFt/ Layer	Units/ SqFt	SqFt/ Unit	Weight/ Layer	Weight/ Pallet
Small Rectangle	9.24	1.32	-	42	6	22.764	3.252	4.55	.22	-	-
Medium Square	13.86	1.98	-	42	6	36.75	5.25	3.03	.33	-	-
Large Rectangle	18.9	2.7	-	42	6	50.736	7.248	2.22	.45	-	-
TOTAL	42	6	7	126	18	110.25	15.75	-	-	480 lbs	3360 lbs

WESTON STONE® FIRE PIT KIT

Fire Pit

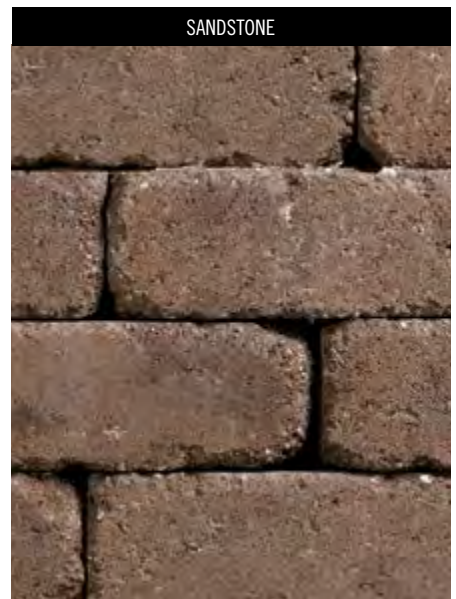
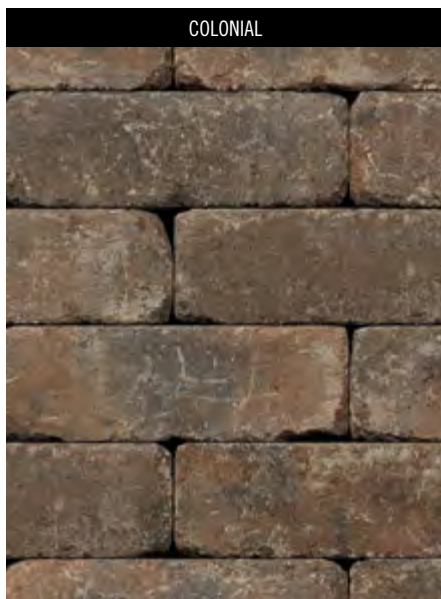


RESIDENTIAL	COMMERCIAL
✓	

PRODUCT SPECIFICATIONS

Weston Stone Fire Pit Kit	
4 x 8 x 8	
4 x 12 x 8	

Fire Pit Insert	
approximate outside measurement of 55" & height of 16"	



Before you begin, check the building code in your area and with your local fire department. There may be restrictions on open fires or requirements as to where you can place the fire pit in relation to your house or other structures. The fire pit should sit on a firm, non-combustible base, such as 6" of compacted gravel. Dig a hole at the center point approximately 12" wide by 2' deep and fill it with crushed stone. The hole acts like a sump to drain rainwater, ashes and soot.

- Use the insert as a guide to lay out the first course. Place it on the ground and position the block around the frame. Set aside the ring.

Round: 8 Large and 10 small units per layer

- Position the second course by offsetting the joints from the block in the row below. For a uniform inside diameter, plumb the units to the back of the block. Repeat this for the remaining courses until you have reached the desired height.

Round: 4 courses

Insert the fire-ring into the blocks and check for a snug fit around the top flange. Fill the fire pit with a graded stone or sand to the bottom of the inside flange. Reposition blocks if needed. A few dabs of construction grade adhesive along the outside edge may be used to secure the top two layers of block.

Recommended Unit Installation Sequence:

Small-Large-Small-Small-Large-Small-Small Large-Small-Large-Small-Large-Large-Small-Small-Large-Small-Large

For more pattern options visit belgard.com/products/finishing_touches

PALLET INFORMATION / ESTIMATING CHART

Weston Stone Fire Pit Kit					
Outside Diameter	Fire Pit Height	Ring Included	Weight/ Unit	Pallets/ Truck	Kits/ Truck
55 in	16 in	Yes	1525	20	20

NOTES





COPING & EDGERS

ANGLIA EDGER®

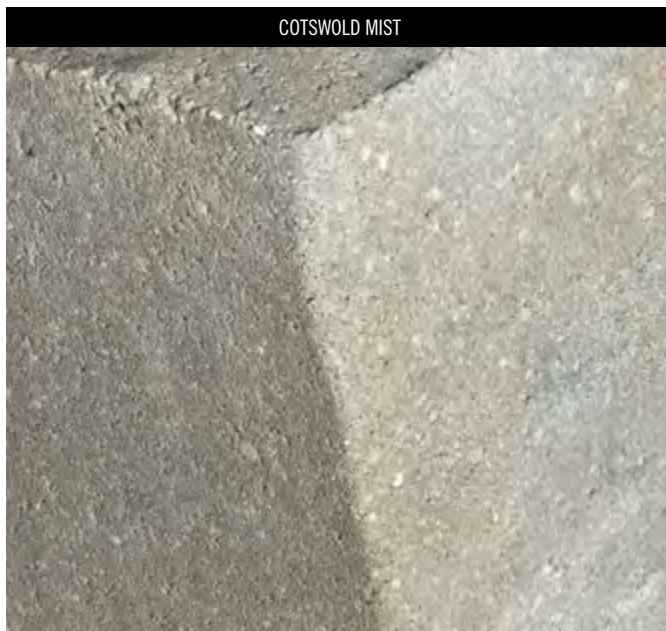
Edger/Curb



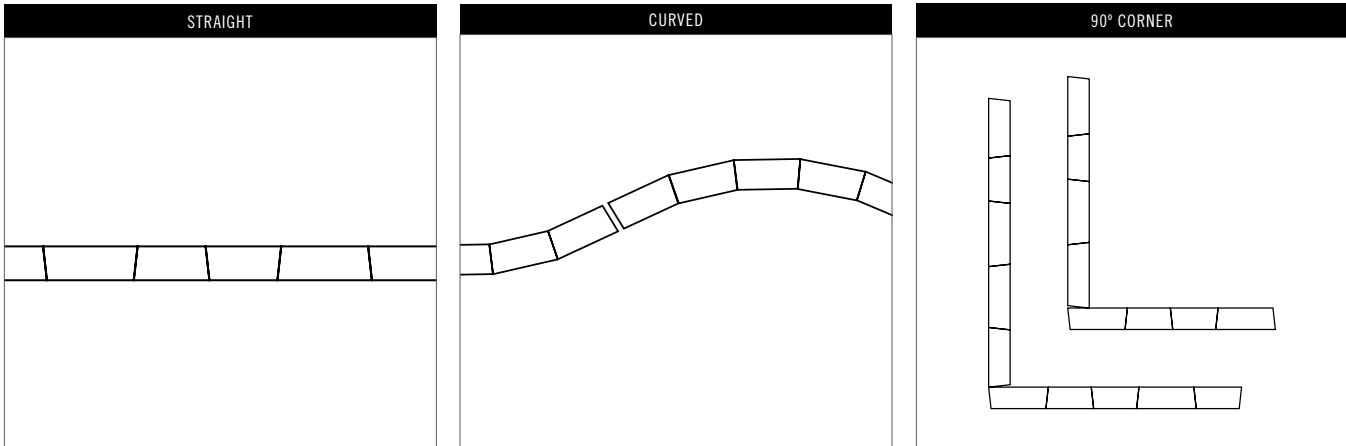
PEDESTRIAN	LIGHT TRAFFIC	REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA	COLORGARD PROCESS	TEXTUREGARD PROCESS	FINISHES
								TUMBLED/ ANTIQUED
✓						✓		

PRODUCT SPECIFICATIONS

A	X-Large Rectangle		C	Medium Rectangle	
	5 1/4 x 18 x 8			5 1/4 x 10 1/2 x 8	
B	Large Rectangle		D	Small Rectangle	
	5 1/4 x 15 5/8 x 8			5 1/4 x 8 1/8 x 8	



ANGLIA EDGER LAYING GUIDE



For more pattern options visit belgard.com/products/finishing_touches

PALLET INFORMATION / ESTIMATING CHART

Unit	Unit Height	Unit Length	Unit Width	Units/Pallet	Units/Layer	LnFt/Pallet	LnFt/Layer	Layers/Pallet	Weight/Layer	Weight/Pallet
A	8 in	17.5 in	5.25 in	24	8	34.992	11.664	-	-	-
B	8 in	15.5 in	5.25 in	12	4	15.504	5.168	-	-	-
C	8 in	10 in	5.25 in	12	4	9.996	3.332	-	-	-
D	8 in	7.5 in	5.25 in	12	4	7.5	2.5	-	-	-
Total	-	-	-	60	-	68	22.667	3	838.33 lbs	2515 lbs

NOTES

Blank area for notes.

CELTIK® CURB

Curb



PEDESTRIAN	LIGHT TRAFFIC	REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA	COLORGARD PROCESS	TEXTUREGARD PROCESS	FINISHES
								TUMBLLED/ ANTIQUED
✓						✓		

PRODUCT SPECIFICATIONS

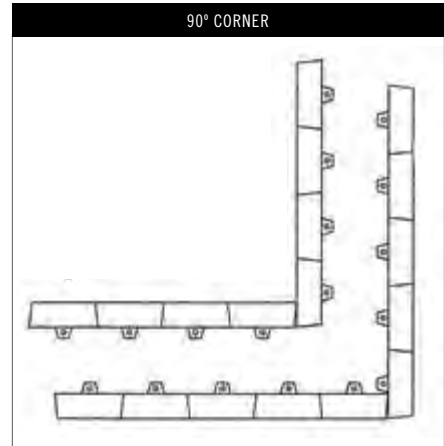
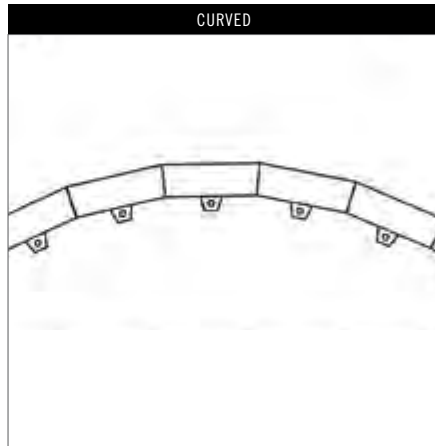
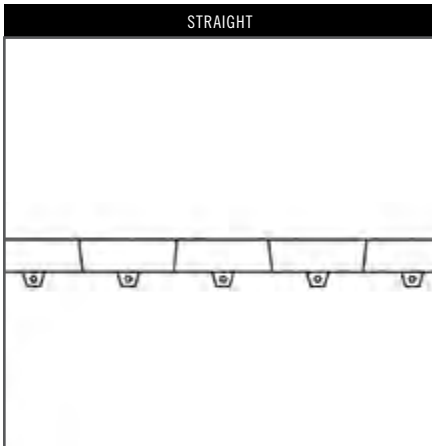
Small	
3 9/16 x 7 7/8 x 3 9/16	

Medium	
3 9/16 x 9 7/8 x 3 9/16	

Large	
3 9/16 x 10 7/8 x 3 9/16	



CELTIK CURB LAYING GUIDE



For more pattern options visit belgard.com/products/finishing_touches

PALLET INFORMATION / ESTIMATING CHART

Unit	Unit Height	Unit Length	Unit Width	Units/ Pallet	Units/ Layer	LnFt/ Pallet	LnFt/ Layer	Layers/ Pallet	Weight/ Layer	Weight/ Pallet
Small	3 9/16 in	7 7/8 in	3 9/16 in	64	16	41.984	10.496	-	-	-
Medium	3 9/16 in	9 7/8 in	3 9/16 in	32	8	26.336	6.584	-	-	-
Large	3 9/16 in	10 7/8 in	3 9/16 in	32	8	28.992	7.248	-	-	-
Total	-	-	-	144	36	104	26	4	367.75 lbs	1471 lbs

NOTES

Blank area for notes.

EASTWOOD COPING

Coping



PEDESTRIAN	LIGHT TRAFFIC	REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA	COLORGARD PROCESS	TEXTUREGARD PROCESS	FINISHES
								TUMBLED/ ANTIQUED
✓						✓		

PRODUCT SPECIFICATIONS

Eastwood Coping	
6 x 12 x 2 3/8	



PALLET INFORMATION / ESTIMATING CHART

EASTWOOD											
Height	Units/ Pallet	Units/ Layer	Layers/ Pallet	LnFt/ Pallet	LnFt/ Layer	Units/ LnFt	LnFt/ Unit	Weight/ Layer	Weight/ Pallet	Pallets/ Truck	LnFt/ Truck
60mm	168	42	4	84	21	2	0.500	600 lbs	2400	19	1596

ESPLANADE CAP

Cap



PEDESTRIAN	LIGHT TRAFFIC	REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA	COLORGARD PROCESS	TEXTUREGARD PROCESS	FINISHES
								TUMBLED/ ANTIQUED
✓						✓		

PRODUCT SPECIFICATIONS

Esplanade Cap	
25 x 25 x 2 5/8	

For more information visit belgard.com/products/finishing_touche



Product texture may vary.

PALLET INFORMATION / ESTIMATING CHART

ESPLANADE CAP

Unit Width	Unit Depth	Unit Thickness	Unit/Pallet	Unit/Layer	Unit Weight	Weight/Layer	Weight/Pallet
25"	25"	2 3/8"	8	1	122	122	1016

FOUNTAINHEAD COPING

Coping



SPECIAL ORDER

PEDESTRIAN	LIGHT TRAFFIC	REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA	COLORGARD PROCESS	TEXTUREGARD PROCESS	FINISHES
								TUMBLED/ ANTIQUED
✓						✓		

PRODUCT SPECIFICATIONS

Fountainhead Coping	
4 x 9 x 5 1/2 2 1/2" Drop	

For more information visit belgard.com/products/finishing_touches



Product texture may vary.

PALLET INFORMATION / ESTIMATING CHART

FOUNTAINHEAD COPING								
Units/ LnFt	Layers/ Pallet	Units/ Pallet	Units/ Layer	LnFt/ Pallet	LnFt/ Layer	Weight/ Layer	Weight/ Unit	Weight/ Pallet
3.311	5	90	18	27.187	5.4374	76.4 lbs	3.5 lbs	382 lbs

GRANIKA STEP™

Step



PEDESTRIAN	LIGHT TRAFFIC	REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA	COLORGARD PROCESS	TEXTUREGARD PROCESS	FINISHES
								TUMBLED/ ANTIQUED
✓						✓		

PRODUCT SPECIFICATIONS

Granika Step	
38 x 16 x 6	

For more pattern options visit belgard.com/products/finishing_touches



ASHBURY HAZE



COTSWOLD MIST



DANVILLE BEIGE



GASCONY TAN

PALLET INFORMATION / ESTIMATING CHART

GRANIKA STEP

Units/ LnFt	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	LnFt/ Pallet	LnFt/ Layer	Units/ SqFt	SqFt/ Unit	Weight/ Layer	Weight/ Unit	Weight/ Pallet
36 in	16 in	2	8	4	24	12	-	-	1125 lbs	275 lbs	2250 lbs

LANDINGS™

Step



PEDESTRIAN	LIGHT TRAFFIC	REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA	COLORGARD PROCESS	TEXTUREGARD PROCESS	FINISHES
								TUMBLED/ ANTIQUED
✓						✓		

PRODUCT SPECIFICATIONS

Landings Step	
6 x 48 x 18	

Please reach out to your local Belgard Representative for current color offerings.

PALLET INFORMATION / ESTIMATING CHART

GRANIKA STEP											
Units/ LnFt	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	LnFt/ Pallet	LnFt/ Layer	Units/ SqFt	SqFt/ Unit	Weight/ Layer	Weight/ Unit	Weight/ Pallet
-	-	-	4	-	-	-	-	-	-	400 lbs	1600 lbs

Each Landings™ step unit is manufactured with two unique face patterns. The step units are palletized and packaged for easy skid-steer loader removal. **Care needs to be taken in handling these units.** If a blemish occurs on one side of unit, rotate 180° before setting unit into place.

BASE COURSE

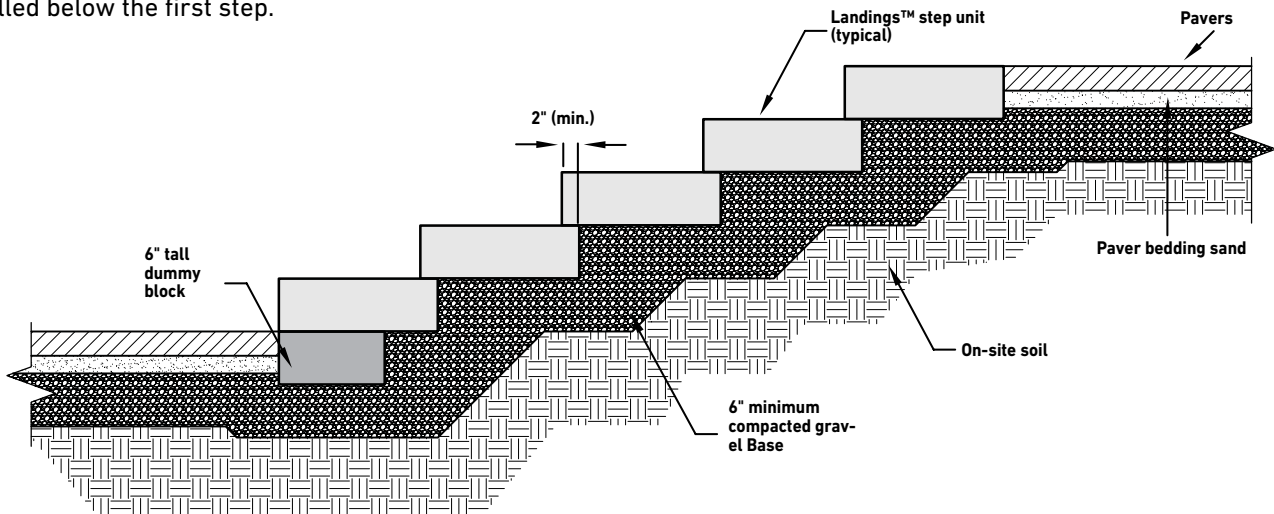
Excavate an area 6 inches deep by 1 foot longer by 1 foot wider than the installed step(s) size. Add a minimum of 6 inches of compactable base material, ¾-inch minus (with fines) aggregate. Compact and level. Set unit and, if desired, add a slight pitch of no more than ¼ inch toward the front of the step to shed moisture. If installing step units next to a retaining wall, keep units level from front to back.

SINGLE STEP

Set step unit onto prepared base course. Level.

STAIR TREAD

For each consecutive step, follow base course instructions, making sure the top of the base is even with the top of the previously installed unit. Recommended tread depth is a minimum of 10 inches, but no more than 16 inches. When installing steps adjacent to a finished surface such as pavers, as illustrated, a 6-inch-tall dummy block needs to be installed below the first step.



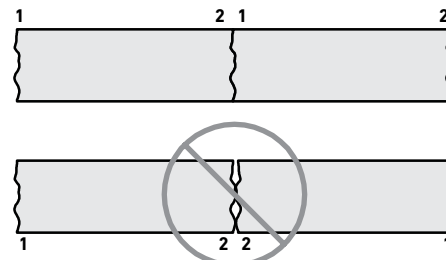
LANDING

For landing(s) follow base course instructions. Each step unit is manufactured with two unique face patterns. The face patterns are manufactured to nest together, which will create a narrower joint, providing pleasing aesthetics.

STEPS IN A 90-DEGREE WALL

When building into a retaining wall, construct the steps first and build the walls adjacent to the steps.

The textures on sides 1 and 2 are designed to nest with minimal gapping between the units.



Place units so they nest tightly together.

For more pattern options visit belgard.com/products/finishing_touches

SEVILLE COPING

Coping

SPECIAL ORDER

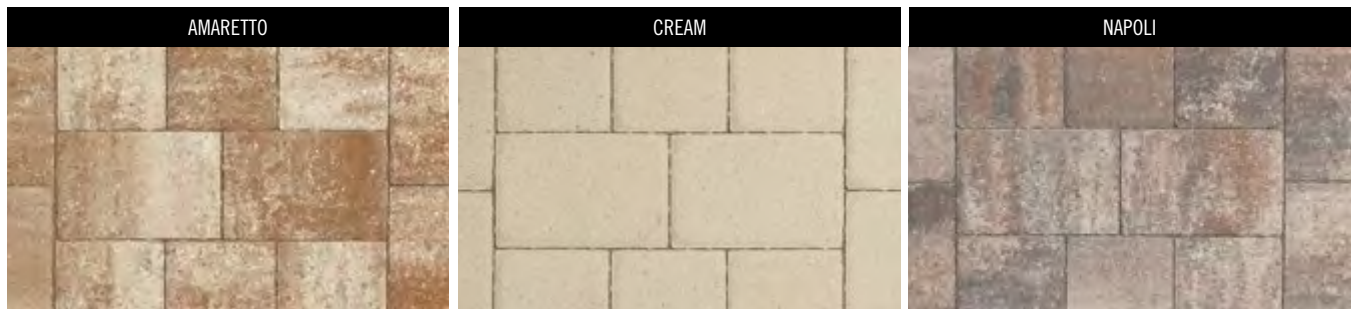


PEDESTRIAN	LIGHT TRAFFIC	REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA	COLORGARD PROCESS	TEXTUREGARD PROCESS	FINISHES
								TUMBLED/ ANTIQUED
✓						✓		

PRODUCT SPECIFICATIONS

Seville	
9 x 3 1/8 x 3 5/8 4" Drop	

For more information visit belgard.com/products/finishing_touches



Product texture may vary.

PALLET INFORMATION / ESTIMATING CHART

SEVILLE											
Units/ LnFt	SqFt/ Layer	Layers/ Pallet	Units/ Pallet	Units/ Layer	LnFt/ Pallet (Soldier)	LnFt/ Section (Sailor)	Units/ SqFt	SqFt/ Unit	Weight/ Layer	Weight/ Unit	Weight/ Pallet
3.311	-	7	336	48	101.5	14.5	-	-	205.43 lbs	4 lbs	1438 lbs

U START BASE BLOCK

Wall Accessory



PEDESTRIAN	LIGHT TRAFFIC	REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA	COLORGARD PROCESS	TEXTUREGARD PROCESS	FINISHES
								TUMBLED/ ANTIQUED
✓								

PRODUCT SPECIFICATIONS

Base Block	
18 7/16 x 12 x 3 1/2	

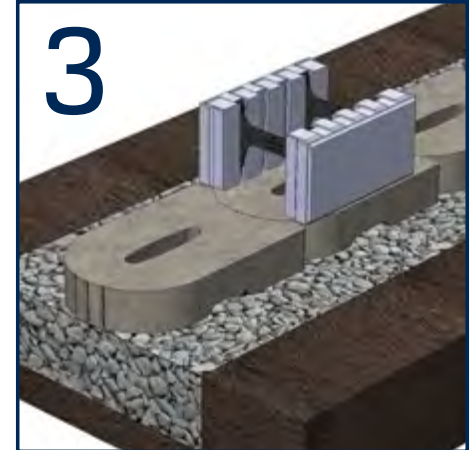
For more information visit belgard.com/products/finishing_touches



Prep Site



Install Base Course



Install the Wall

PALLET INFORMATION / ESTIMATING CHART

U START BASE BLOCK

Unit Width	Unit Length	Unit Height	Lnft/ Unit	LnFt/ Layer	LnFt/ Pallet	Units/ Column	Units/ Pallet	Layer/ Pallet	Unit/ Layer	Weight/ Layer	Weight/ Pallet
12"	16.5"	3.75"	1.375	11	77	4	56	7	8	730	2920





ELEMENTS™

BRISTOL SERIES

A beautiful combination of Weston Wall tumbled block, featuring Arbel® Paver and Urbana® Stone accents. Bristol's rustic look blends well in any landscape.

FIREPLACE

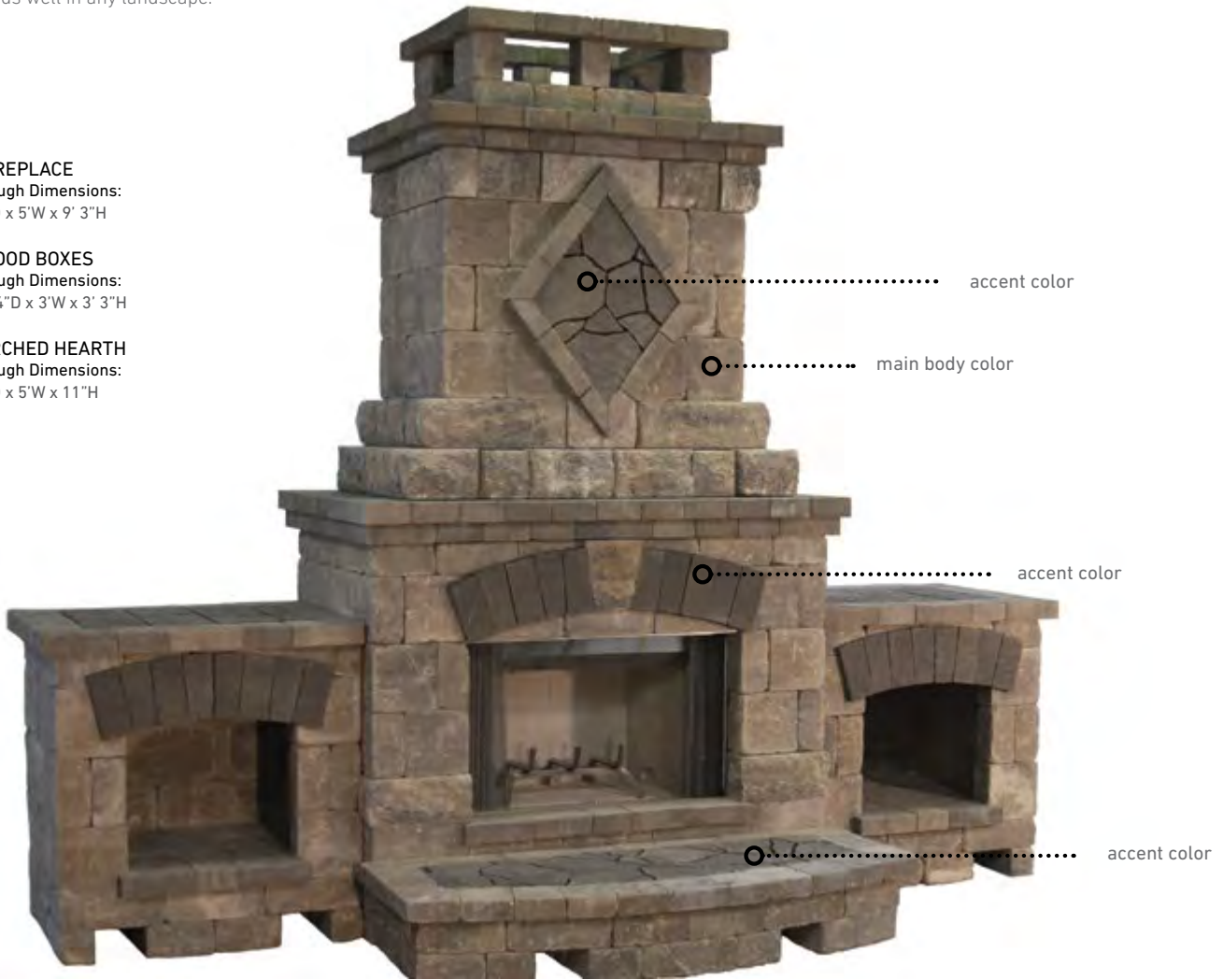
Rough Dimensions:
3'D x 5'W x 9' 3"H

WOOD BOXES

Rough Dimensions:
2' 4"D x 3'W x 3' 3"H

ARCHED HEARTH

Rough Dimensions:
2'D x 5'W x 11"H



AVAILABLE COLORS

MAIN BODY	ACCENT
Gascony Tan	Ashbury Haze
Cotswold Mist	Brookstone Slate



GASCONY TAN



ASHBURY HAZE



COTSWOLD MIST



BROOKSTONE SLATE

BRISTOL SERIES



FIREPLACE

Rough Dimensions:
3'D x 5'W x 9' 3"H



BRICK OVEN

Rough Dimensions:
4'D x 4'W x 8' 5"H



ARCHED HEARTH

Rough Dimensions:
2'D x 5'W x 11"H



WOOD BOXES

Rough Dimensions
Available In:
2' 4"D x 3'W x 3' 3"H



GRILL ISLAND*

Rough Dimensions:
3'D x 6' 4"W x 4' 4"H

BRISTOL SERIES

FIREPLACE, WOOD BOXES & ARCHED HEARTH SPECIFICATIONS



FIREPLACE

70580261

Bristol Fireplace
Colors: Weston Gascony Tan/
Arbel Ashbury Haze Base + Top

70580312

Bristol Fireplace
Colors: Weston Cotswold Mist/
Arbel Brookstone Slate Base + Top

Approximate Weight:

Bottom Unit-4095 lbs.
Top Unit-3200 lbs.

Rough Dimensions:

3'D x 5'W x 9' 6"H

36" wood burning fireplace can be converted to a vented gas unit on-site.

WOOD BOXES

70580334

Bristol Wood Boxes (Pair)
Colors: Weston Gascony Tan/Urbana Ashbury Haze

70580534

Bristol Wood Boxes (Pair)
Colors: Weston Cotswold Mist/Urbana Brookstone Slate

Approximate Weight Per Pair:

3950 lbs.

Rough Dimensions:

2' 4"D x 3'W x 3' 3"H

ARCHED HEARTH

70580262

Bristol Arched Hearth
Colors: Weston Gascony Tan/Arbel Ashbury Haze

70580309

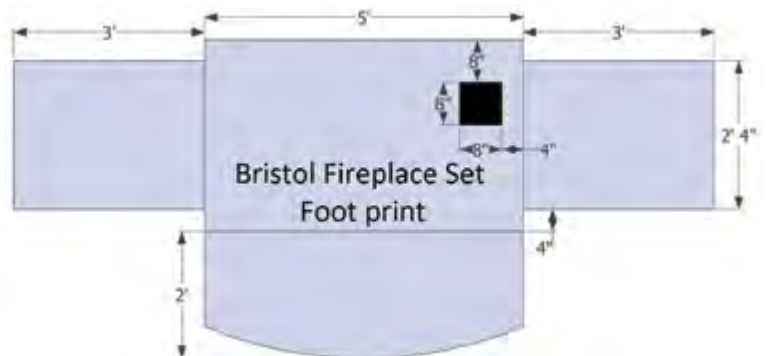
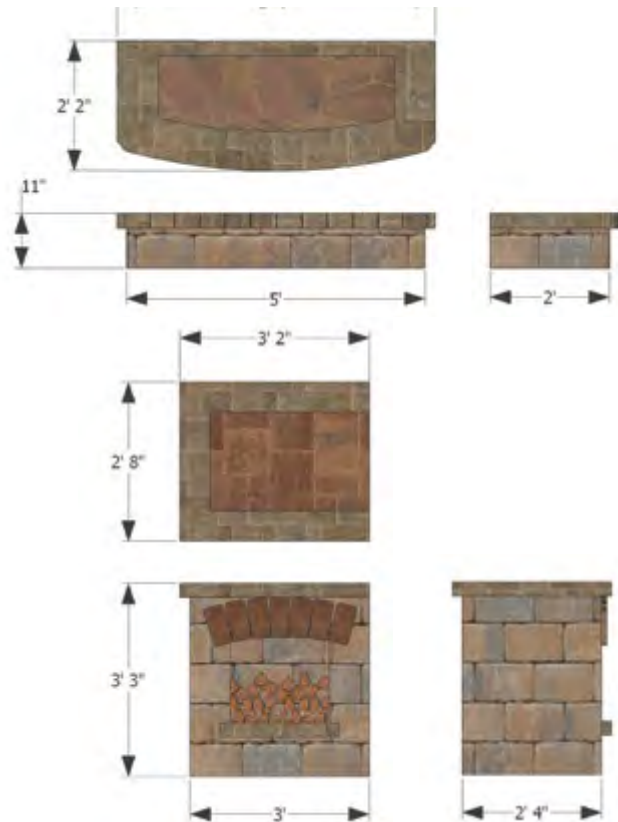
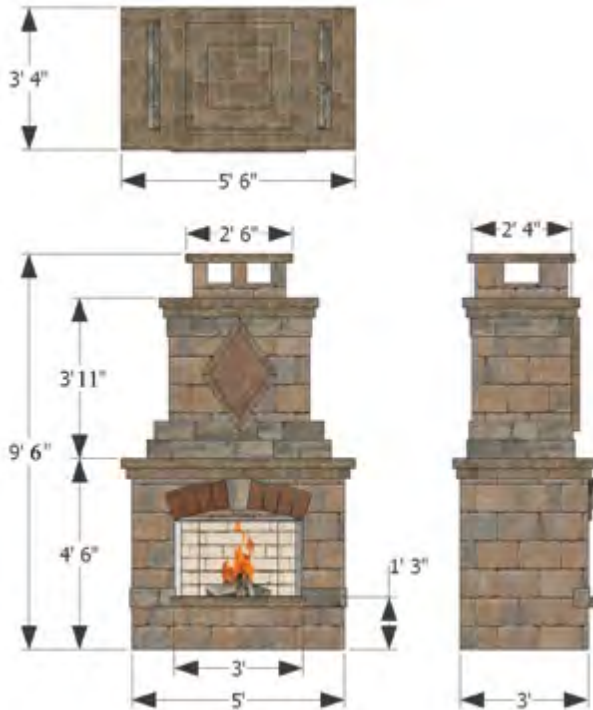
Bristol Arched Hearth
Colors: Weston Cotswold Mist/Arbel Brookstone Slate

Approximate Weight:

1180 lbs.

Rough Dimensions:

2'D x 5'W x 11"H



*Two stock color combinations.

BRISTOL SERIES

BRICK OVEN & GRILL ISLAND SPECIFICATIONS



BRICK OVEN

70583280

Bristol Brick Oven
Colors: Weston Gascony Tan/
Urbana Ashbury Haze Base + Top

70580205

Bristol Brick Oven
Colors: Weston Cotswold Mist/
Urbana Brookstone Slate Base + Top

Approximate Weight:

Bottom Unit-3125 lbs.
Top Unit-3800 lbs.

Rough Dimensions:

4'D x 4'W x 8' 5"H

GRILL ISLAND

13110008 (NG) / 11130250 (LP)

Bristol Grill Island
Colors: Weston Gascony Tan/
Arbel Ashbury Haze + Stainless

13110009 (NG) / 13110256 (LP)

Bristol Grill Island
Colors: Weston Cotswold Mist/
Arbel Brookstone Slate + Stainless

Approximate Weight:

3945 lbs.

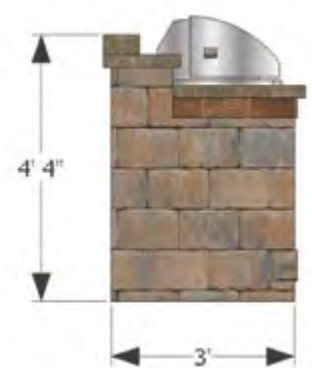
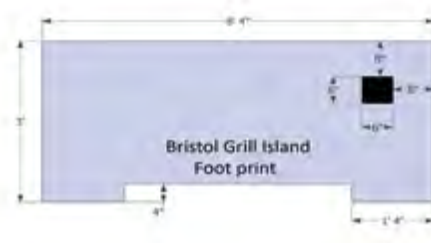
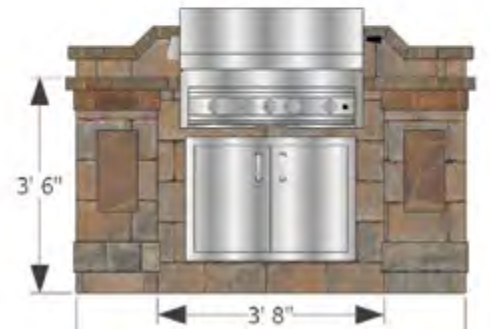
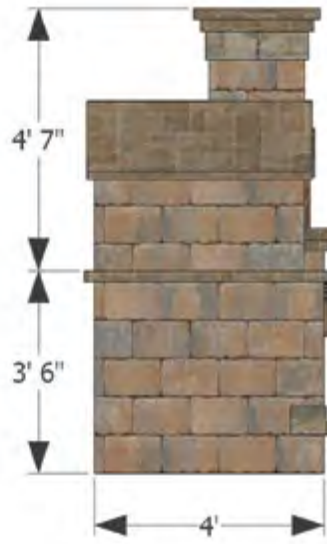
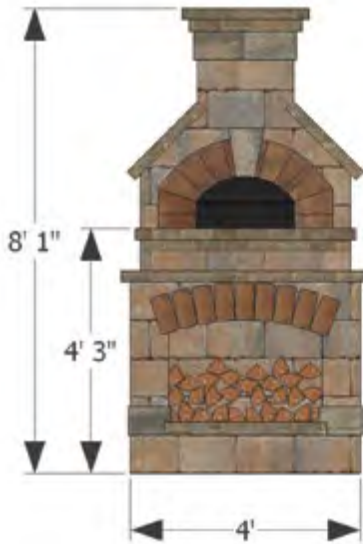
Rough Dimensions:

3'D x 6' 4"W x 4' 4"H

GRILL ISLAND INCLUDES

- Napoleon 5 Burner Grill
- Stainless Steel Cooking Grids
- i-Glow Backlit Control Knobs
- Rear Infrared Rotisserie Burner
- 760 sq. in. of cooking surface
- Up to 66,000 BTU
- Requires 110v outlet
- Napoleon 30" Stainless Steel Double Doors

* Hoses not included, recommended hard-piped installation.



BRIGHTON SERIES

This series features a built-in hearth and available wood boxes. Attractive arched accents complete the look.

FIREPLACE

Rough Dimensions:
3' 4"D x 4' 4"W x 8' 4"H

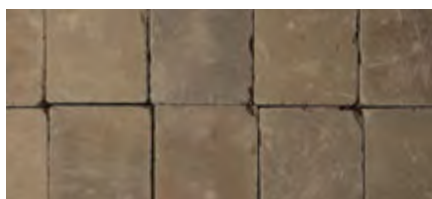
WOOD BOXES

Rough Dimensions:
2' 4"D x 2' 8"W x 2' 11"H



AVAILABLE COLORS

MAIN BODY	ACCENT
Gascony Tan	Ashbury Haze
Cotswold Mist	Brookstone Slate



GASCONY TAN



ASHBURY HAZE



COTSWOLD MIST



BROOKSTONE SLATE

BRIGHTON SERIES



FIREPLACE

Rough Dimensions:
3' 4"D x 4' 4"W x 8' 4"H



WOOD BOXES

Rough Dimensions:
2' 4"D x 2' 8"W x 2' 11"H



BRIGHTON SERIES

FIREPLACE & WOOD BOXES

SPECIFICATIONS



FIREPLACE

70580007

Brighton Fireplace
Colors: Weston Gascony Tan/Urbana Ashbury Haze Base + Top

70580378

Brighton Fireplace
Colors: Weston Cotswold Mist/Urbana Brookstone Slate Base + Top

Approximate Weight:

Bottom Unit-4605 lbs.
Top Unit-1230 lbs.

Rough Dimensions:

3' 4"D x 4' 4"W x 8' 4"H

36" wood burning fireplace can be converted to a vented gas unit on-site.

WOOD BOXES

70300046

Brighton Wood Boxes (Pair)
Colors: Weston Gascony Tan/Urbana Ashbury Haze

70580291

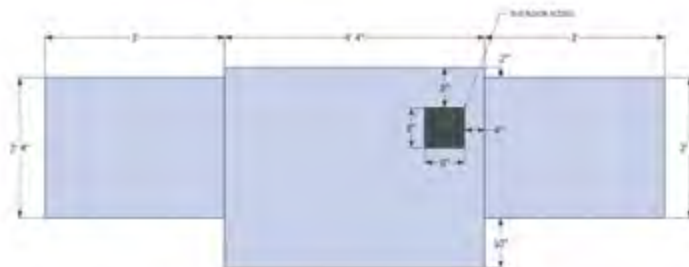
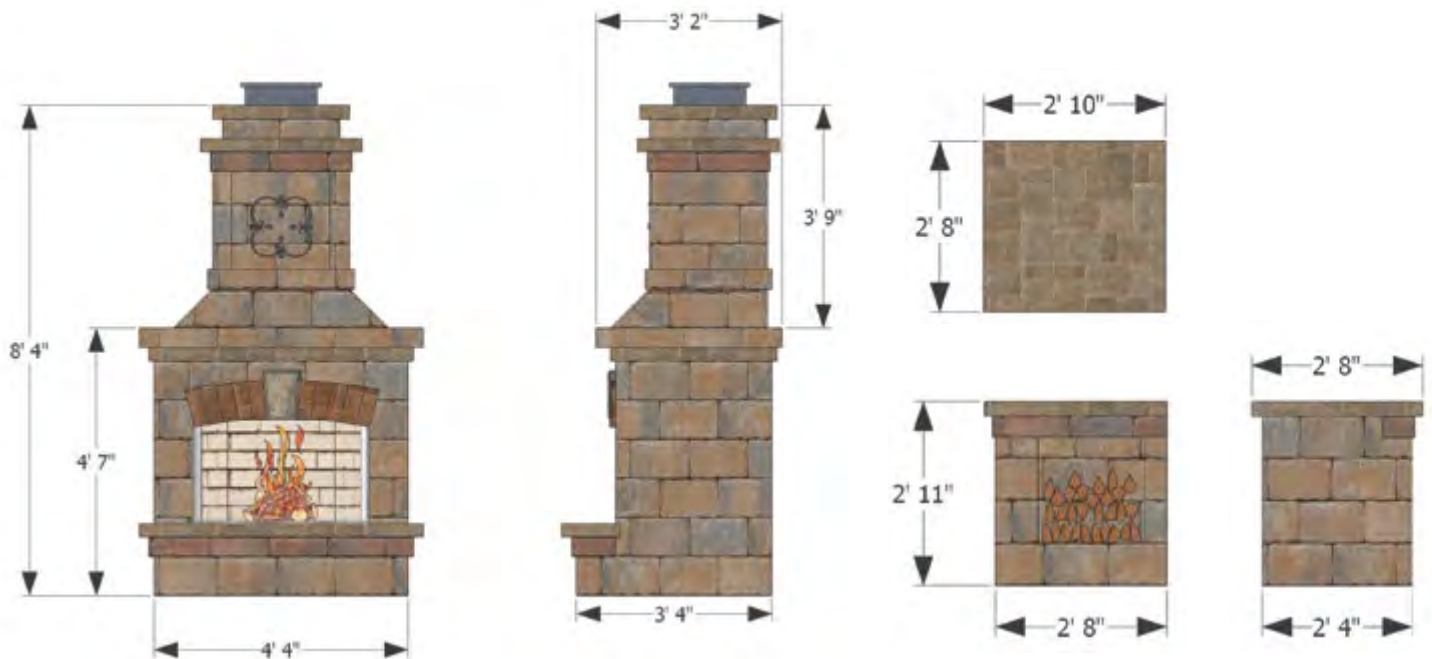
Brighton Wood Boxes (Pair)
Colors: Weston Cotswold Mist/Urbana Brookstone Slate

Approximate Weight Per Pair:

3200 lbs.

Rough Dimensions:

2' 4"D x 2' 8"W x 2' 11"H



BORDEAUX SERIES

FIREPLACE

Rough Dimensions:
2' 7"D x 4' 3"W x 7' 8"H

WOOD BOXES

Rough Dimensions:
2' 1 1/4"D x 3' 3"W x 3' 1"H



AVAILABLE COLORS

MAIN BODY	ACCENT
Sienna	Buff
Sienna	Midnight

BUFF



SIENNA



MIDNIGHT



BORDEAUX SERIES

FIREPLACE & WOOD BOXES SPECIFICATIONS



FIREPLACE

70300791

Bordeaux Builder Wood Fireplace
Colors: Lamina Sienna/
Cordova Stone Buff Base + Top

13070014

Bordeaux Builder Wood Fireplace
Colors: Lamina Sienna/
Cordova Stone Midnight Base + Top

Approximate Weight:
Bottom Unit-2850 lbs.
Top Unit-1320 lbs.

Rough Dimensions:
2' 7"D x 4' 3"W x 8'H

36" wood burning fireplace can be converted to a vented gas unit on-site.

WOOD BOXES

13140001

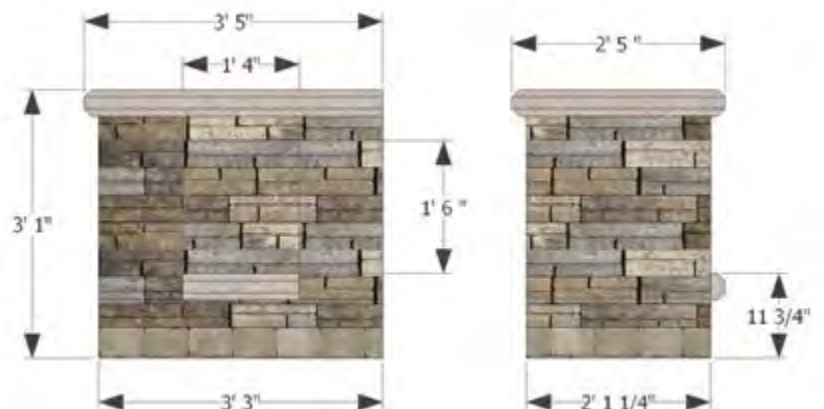
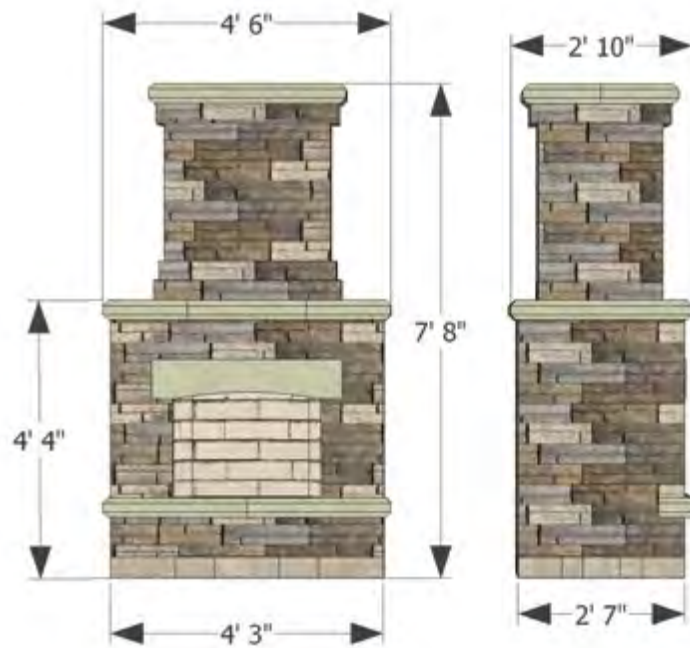
Bordeaux Wood Boxes (Pair)
Colors: Lamina Sienna/Cordova Stone Buff

13140020

Bordeaux Wood Boxes (Pair)
Colors: Lamina Sienna/Cordova Stone Midnight

Approximate Weight:
3070 lbs.

Rough Dimensions:
2' 1 1/4"D x 3' 3"W x 3' 1"H



BORDEAUX SERIES

BRICK OVEN & GRILL ISLAND SPECIFICATIONS



BRICK OVEN

13000012

Bordeaux Brick Oven
Colors: Lamina Sienna/
Cordova Stone Buff Base + Top

13000014

Bordeaux Brick Oven
Colors: Lamina Sienna/
Cordova Stone Midnight Base + Top

Approximate Weight:
5252 lbs.

Rough Dimensions:
3' 6"D x 4' 5"W x 7' 5"H

GRILL ISLAND

13110010 (NG) / 13110011 (LP)

Bordeaux Grill Island
Colors: Lamina Sienna/
Cordova Stone Buff + Stainless

13110014 (NG) / 13110015 (LP)

Bordeaux Grill Island
Colors: Lamina Sienna/
Cordova Stone Midnight + Stainless

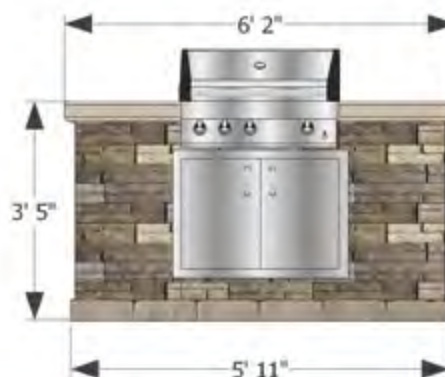
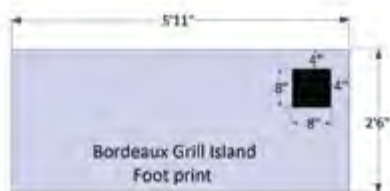
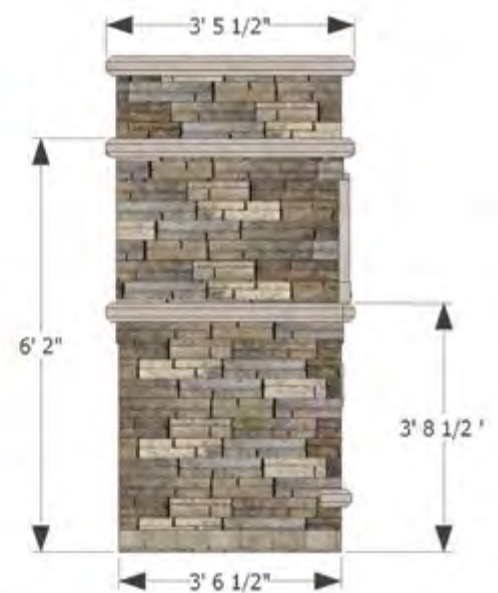
Approximate Weight:
3055 lbs.

Rough Dimensions:
2' 6"D x 5' 11"W x 3' 5"H

GRILL ISLAND INCLUDES

- Napoleon 5-Burner Grill
- Porcelainized Cast Iron Cooking Grids
- JETFIRE Ignition
- Rear Infrared Rotisserie Burner
- 760 sq. in. of cooking surface
- Up to 66,000 BTU
- Napoleon 30" Stainless Steel Double Doors

* Hoses not included, recommended hard-piped installation.



KITCHEN

DESIGN IDEAS & ACCESSORIES

Kitchens can be customized & combined to fit almost any outdoor space. See some kitchen layout suggestions below.



STRAIGHT KITCHEN



DELUXE KITCHEN



36" AOG GRILL
36NB
37"W x 19 1/2"D x 8 1/2"H



NAPOLEON PRESTIGE 500 GRILL
70583423 NG
70583422 LP*
32"W x 32"D x 26"H



AOG DOUBLE DRAWER
16-15-DSSD
14 1/2"W x 20 1/2"D x 15 3/4"H



AOG DOUBLE ACCESS DOOR
20-30-SSD
20 3/4"H x 30"W



AOG SINGLE ACCESS DOOR
20-14-SSDR or DL
20 3/4"H x 14 1/2"W



AOG REFRIGERATOR
REF-20
19 3/4"W x 21 3/4"D x 34 3/4"H

KITCHEN

DESIGN IDEAS & ACCESSORIES

Kitchens can be customized & combined to fit almost any outdoor space. See some kitchen layout suggestions below.



"L" KITCHEN



"L" WITH OVEN



NAPOLEON PRESTIGE PRO 500 GRILL
70583420 NG
70583421 LP*
32"W x 32"D x 26"H



FIRE MAGIC SINK & FAUCET
3587 & 3588
14"W x 14"D x 6"H



NAPOLEON 30" STAINLESS STEEL
DOUBLE DOORS
70588232
28 1/4"W x 20 1/4"H



AOG SINGLE SIDE BURNER
3283
8 3/4"W x 14 1/4"D



FIRE MAGIC BAR CADDY
1D-50
14 1/4"W x 23 3/4"D x 12"H

*NOTE: 1 Napoleon propane regulator required for all Napoleon LP Grills (70580428)

BELGARD® BRICK OVENS

A beautiful focal point to your new outdoor living space, a brick oven will bring your family and friends hours of enjoyment. Options range from complete built-in to easy table top models giving you an unparalleled outdoor experience in any space.



PRODUCT SPECIFICATIONS

CBO-500 Bundle

4-piece oven (Dome, Hearth (2 pieces), Arch, Decorative Door, Flue Adaptor Install Kit (Insulating Board, Insulating Blanket, Mortar) Cooking Kit (Pizza Peel, Brush)

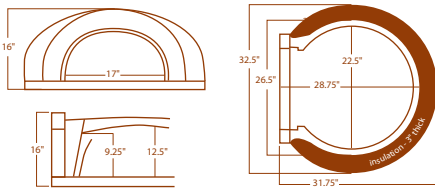


CBO-750 Bundle

5-piece oven (Dome, Hearth, Arch, Decorative Door, Flue Adaptor, Flue Adaptor Ring) Install Kit (Insulating Board, Insulating Blanket, Mortar) Cooking Kit (Insulating Door, Pizza Peel, Brush)

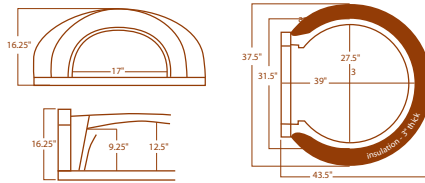


Model 500



Cooking Surface	Height	Length	Width	Weight	Item Number
29" x 23"	16"	32.5"	31.75"	300	70300031

Model 750



Cooking Surface	Height	Length	Width	Weight	Item Number
41" x 28"	16.25"	37.5"	43.5"	480	70580500



BELGARD BRICK OVEN CART

A durable stainless steel wood burning brick oven and mobile cart unit.



BELGARD COUNTER TOP MODEL

A durable stainless steel countertop brick oven with large cooking surface.



Stationary



CBO Counter Top model

A pre-assembled brick oven that can be placed on a sturdy base of your choice.

Color Availability	Model	Height	Depth	Width	Weight	Item Number
Copper	500	46"	32"	34"	500	70580509
Copper	750	46"	40"	35.5"	600	70580510

Pre-Assembled



Bristol

This preassembled brick oven consists of Weston Stone® body with Urbana, Dublin Cobble and Anchor Highland Accents. Comes standard with 750 Series brick oven.

Model	Height	Length	Width	Weight	Item Number
750	7.75'	4'	4'	6500	70306097

Mobile



CBO Cart model

Oven with durable, steel cart to give you a mobile, outdoor wood-fired brick oven.

Color Availability	Model	Height	Depth	Width	Weight	Item Number
Copper	500	61"	32"	34"	550	70580507
Copper	750	61"	32"	35.5"	650	70580508



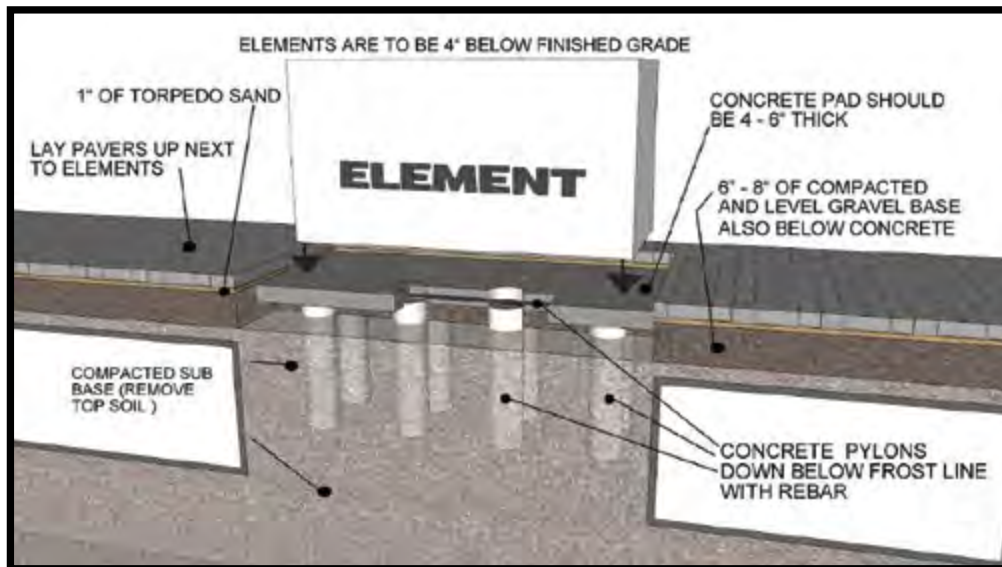
Bordeaux

The newest brick oven model offers a stainless steel dome design with Lamina Stone body & Cordova Stone accents.

Model	Height	Length	Width	Weight	Item Number
750	7.75'	4'	4'	6500	70306097

Elements are very easy to install. Here are a couple cross section details to consider. Keep in mind, these are not engineered plans. Make sure you check with your local municipality for their requirements when installing Elements. Here are a few other key points to remember:

- Always place a piece of material (plywood or carpet work well) between your forks and the Elements to prevent chipping.
- Always transport the Element on the pallet it comes with until you are ready to place on the permanent location.
- Make sure to use a ratchet strap to secure the Element to the loader when transporting and placing.
- Handle Elements with care - they are concrete, but not indestructible.
- Make sure to size the machine to the Elements weight.
- All Elements are designed to be buried 4" below finish grade.



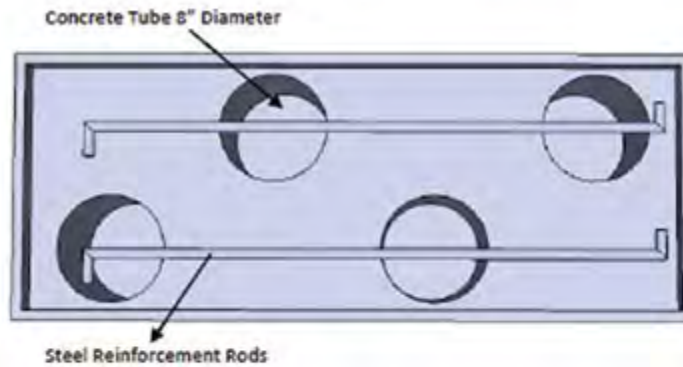
CONCRETE PAD INSTALLATION

For areas not affected by freeze-thaw conditions please contact your local Belgard sales representative for further installation information.

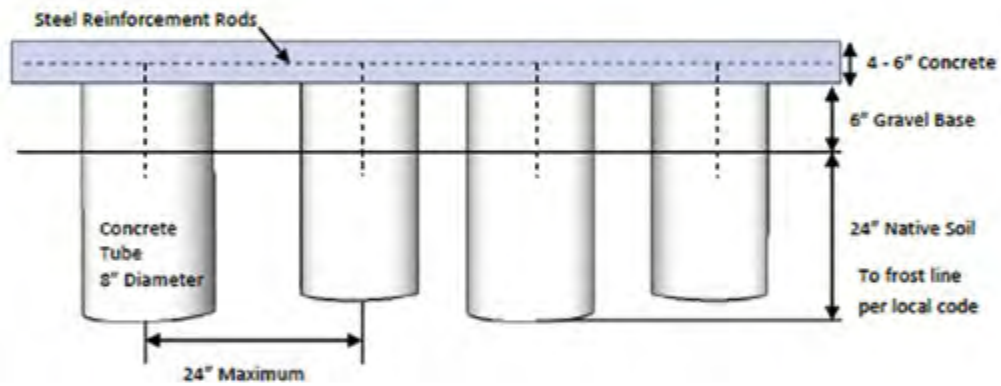
Typical Cross Section for Concrete Pad Installation

****The following measurements are a suggestion. Always check your local building codes first.**

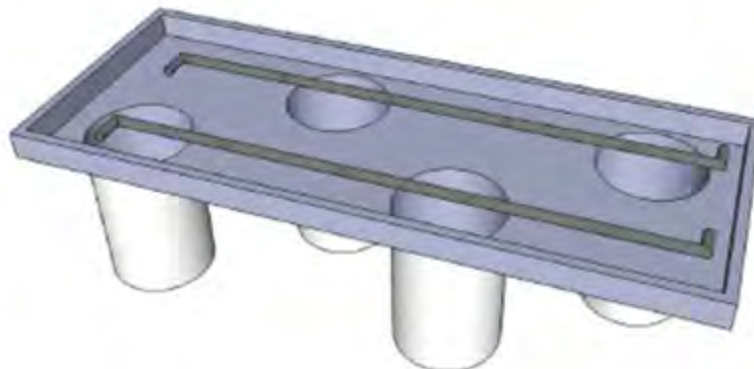
Top View



Side View



3D View





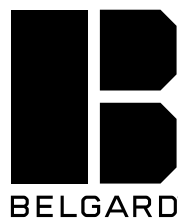
This Element has been manufactured by Belgard Hardscapes, a division of Oldcastle Architectural, Inc. Belgard warrants to the first consumer purchaser (but not to any transferees or subsequent owners) that the Element will be free from defects in workmanship and materials, under normal use, for as long as the Element is owned by such first consumer purchaser, and that the Element, when installed and used in accordance with the written installation manual, shall comply with all applicable federal, state and local laws. If the Element includes a fireplace, it shall comply with UL127 CAN/ULC-S610-M87. Notwithstanding the foregoing, some third party accessories and components such as brick oven domes, fireplace screens, sinks and faucets, stainless kitchen doors, stainless appliances, and countertop material sold with or incorporated into the Element are warranted only for the shorter of the warranty period above or the following specific periods set forth below, and are subject to the limitations described below: Please see specific manufacturer's warranty for more details.

The above warranty periods begin on the date of initial purchase of the Element by the first consumer purchaser. All warranties expire upon any transfer or change of ownership of the Element (or the residence at which it is first installed) to any person other than the first consumer purchaser.

Belgard's sole obligation under this express warranty shall be, at Belgard's option and expense, to replace the Element or part, or to repair the Element or part. Belgard warrants any replaced Element or part for a period of ninety (90) days from shipment, or through the end of the original warranty period, whichever is longer. All Elements or parts that are replaced become the property of Belgard.

Belgard makes no warranty regarding texture, color, color change, efflorescence, fading or other aesthetic characteristics of any Element. Belgard does not guarantee that any replacement components will be an exact match to the color or texture of the original Element.

This limited warranty is void in cases of damage in transit, negligence, abuse, abnormal usage, misuse, accidents, improper maintenance or any unauthorized repair, modification or adjustment of the Element. This limited warranty does not cover labor or other costs or expenses associated with repairs performed by anyone other than Belgard or one of Belgard's authorized agents absent Belgard's prior written consent. Any implied warranties are limited to the duration of this express warranty. Some states do not allow the limitation on implied warranties so the foregoing limitation may not apply to you. In the event that the exclusive remedies provided above fail, Belgard's liability shall be limited to an amount equal to the original purchase price paid by the first consumer purchaser. Under no circumstances shall Belgard be liable for any special, indirect, incidental, consequential, punitive or similar damages, all of which are expressly excluded from this warranty and from any implied warranty arising under state law, including any implied warranty of merchantability and any implied warranty of fitness for a particular purpose, and some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. This limited warranty applies to Elements installed in or at personal residences only. No warranty whatsoever, express or implied, is made with respect to commercial applications.







ACCESSORIES

ADAMS-EAST/CAROLINAS an Oldcastle Company

Greensboro
108 Buchanan Church Rd
Greensboro, NC 27405
800-446-7421

Cowpens
165 Allison Rd
Cowpens, SC 29330
877-660-6460



Get Social



[Pinterest.com/Belgard](https://www.pinterest.com/Belgard)



[Facebook.com/BelgardHardscapes](https://www.facebook.com/BelgardHardscapes)



[Belgard.com/Blog](https://www.belgard.com/blog)



[YouTube.com/BelgardHardscapes](https://www.youtube.com/BelgardHardscapes)



[Belgard.com/Enews](https://www.belgard.com/eneews)



[Twitter.com/Belgard](https://twitter.com/Belgard)