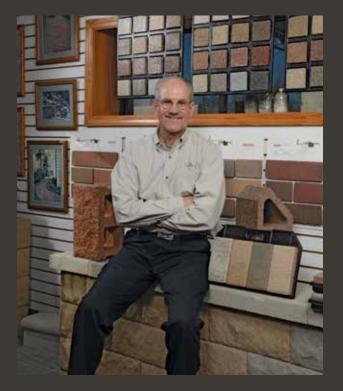




PAVERS & WALL STONES





> OUR HISTORY

Nothing brings more beauty to your outdoor living than a landscape beautifully adorned with paving brick and stone work. Now celebrating our 96th year in business, we have been providing the products and service that can turn any landscape into an earth-friendly and welcoming environment and can often increase the value of your home. Ever since my grandfather, Leo Fendt, began mining sand and gravel on our present site on Gill Road in Farmington, Michigan, in 1924, we've been creating building blocks for Michigan homes and businesses. But we have not just been passionate about the structural benefits of solid and durable masonry products and construction for thousands of homes, offices, factories and schools across the state. In the early '80s, my father's passion guided us in finding new ways to turn common grounds into beautiful and purposeful outdoor living spaces. Our paving stones and retaining wall blocks have transformed the ordinary backyard into the extraordinary family oasis – a true extension of the home.

OUR PHILOSOPHY

Michigan was built on good old-fashioned, hard-working, Middle-American, family values. We like to think we're representative of those values. We work hard, like you do, to provide the best for our families. We shop locally, worship locally and we send our kids to the local schools. Because we believe that in order to be good at our business, we also have to be good neighbors. Embedded in the community. Always ready to lend a hand. We're good listeners too. Charitable. Honest. Trustworthy. In fact, it's truly been my pleasure, over the years, to be able to personally meet and discuss building and landscaping plans with customers like you at our local stores. It's nice to know so many still appreciate quality products and service for a fair price. Funny, that's been the cornerstone of our business since its inception. My grandfather, my father and I have all believed in the power of listening to our customers and letting their input help shape how we innovate and how we conduct business.



SALUTE TO SERVICE

Without the dedication of the brave men and women who serve through our U.S. armed forces, our state and local

police and fire departments, or as first responders, we wouldn't be able to enjoy the freedoms we're granted as American citizens. That's why we're honored to have provided the paving stones and wall stones adorning the Michigan State police post in Brighton, Michigan. To all who serve...thank you for your service!

SPECIAL THANKS TO YOU...OUR CUSTOMERS

As we approach our company's centennial in business, our families would like to thank yours for the continued support and patronage throughout the years. We're so humbled to have been able to provide service for so many great customers and we look forward to working with families like yours in the near future.

Sincerely,

Alan Fendt President

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Fendt is a proud member of both the Interlocking Concrete Pavement Institute (ICPI) and the National Concrete Masonry Association (NCMA). These organizations are recognized as the leading national associations for the advancement of properly designed and installed concrete paying stones and segmental retaining walls, respectively. We recommend that installations of our quality products follow the accented installation standards of the ICPI and NCMA



> WARRANTY

Fendt Builder's Supply, Inc., guarantees the structural integrity of our paver and retaining wall products to the original purchaser for residential applications. Should any product prove defective by not meeting existing ASTM specifications and standards, it will be replaced without cost. Replacement labor and shipping costs are not included in this guarantee. Color matching of any replacement units cannot be guaranteed. Proof of original purchase is required.

GUIDELINES FOR NON-WARRANTIED TOPICS

COLORS

The colors of products shown in this catalog are to be used as representations or guidelines only. The photography and printing processes are not fully capable of reproducing exact color of all products. Colors may also change from production run to production run. Not all colors are available in all shapes – check with the sales department for availability. Fendt Builder's Supply, Inc., may change, amend, add or discontinue any product, shape, style or color at its sole discretion with no prior notification. To assure random color distribution, it is recommended that individual blocks and/or pavers be mixed from different pallets on the job site.

CLEANING AND MAINTENANCE

Efflorescence, a white deposit common on concrete and masonry surfaces, is a natural occurrence and no warranty or liability is either expressed or implied for this condition. Cleaners are available for the removal of efflorescence. Residues left on pavers and wall stones from saw-cutting of units or from improper installation of polymeric sands are not the responsibility of Fendt. Cleaners are available for these situations. The face of retaining walls can be stained due to mineral and soil-laden moisture in the backfill area. Cleaners and sealers are available for routine maintenance.

SNOW REMOVAL AND SALTING

Snow can be shoveled or plowed from pavers as readily as other pavements. High-strength, low-absorption Fendt pavers are more resistant to de-icing salts than ordinary concretes, but they can still be damaged by intense application. Magnesium chloride is less damaging to concrete surfaces than other rock salt (sodium chloride) or calcium chloride.

IDEA GALLERY – WALKWAYS

PAVERS: OLD WORLD VINTAGE – POLAR ASH ACCENT PAVERS: OLD WORLD VINTAGE XLR – JET BLACK STEP COPING: OLD WORLD GLENSTONE BULLNOSE – LIMESTONE BLEND



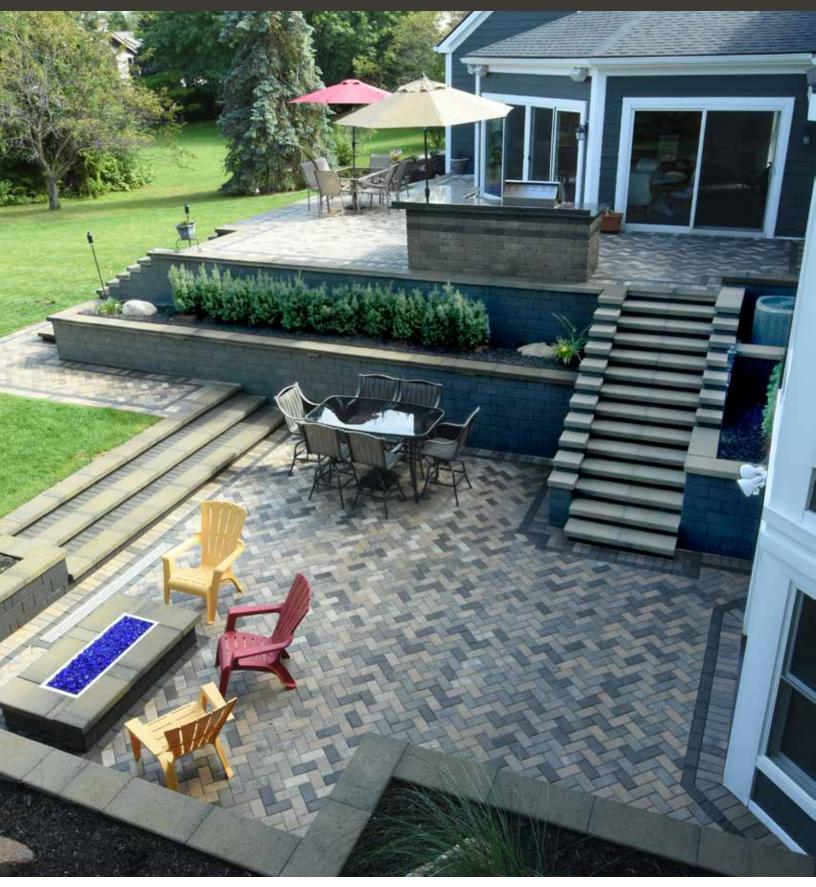
IDEA GALLERY – DRIVEWAYS

> PAVERS: SYMETRY* – RUSTIC BLEND 6x6 – CUSTOM CREAM



IDEA GALLERY – PATIOS

PAVERS: 4x8 HOLLAND – POLAR ASH WALLS: STONEGATE – SLATE CAPS: 3x24 CAP – LIMESTONE BLEND



IDEA GALLERY – POOLS

PAVERS: OLD WORLD VINTAGE – POLAR ASH ACCENT PAVERS: OLD WORLD VINTAGE XLR – JET BLACK WALL STONES: OLD WORLD STONEGATE – LIMESTONE BLEND ACCENT WALL STONES: OLD WORLD STONEGATE – SLATE CAPS: 3x24 SMOOTH CAP – LIMESTONE BLEND POOL COPING: COPING STONE – SLATE



IDEA GALLERY - OUTDOOR KITCHENS

PAVERS: OLD WORLD VINTAGE - LIMESTONE BLEND ACCENT PAVERS: OLD WORLD VINTAGE XLR - JET BLACK WALL STONES: OLD WORLD STONEGATE - LIMESTONE BLEND ACCENT WALL BAND: OLD WORLD STONEGATE - SLATE



IDEA GALLERY – FIRE PITS

WALL & FIRE PIT: VERAZZO STONE – CAMEL WALL & FIRE PIT CAPS: GLENSTONE & GLENSTONE BULLNOSE – CAMEL STEPS: GLENSTONE BULLNOSE – CAMEL PAVERS: HOLLAND SERIES – WALNUT BLEND ACCENT PAVERS: HOLLAND 4x8 – SLATE PIER ACCENT COURSE: GLENSTONE – SLATE



IDEA GALLERY - PRIVACY WALLS

WALLS: OLD WORLD STONEGATE – LIMESTONE BLEND ACCENT WALL COURSE: OLD WORLD STONEGATE – SLATE CAP: 3x24 SM00TH CAP – LIMESTONE BLEND



IDEA GALLERY – RETAINING WALLS

PAVERS: HOLLAND SERIES – WALNUT BLEND STEP PAVERS: 4x8 HOLLAND – WALNUT BLEND WALLS: COMPAC HEWNSTONE – CAMEL CAPS: 3x24 CAP – WALNUT BLEND



IDEA GALLERY – OUTDOOR FIREPLACES

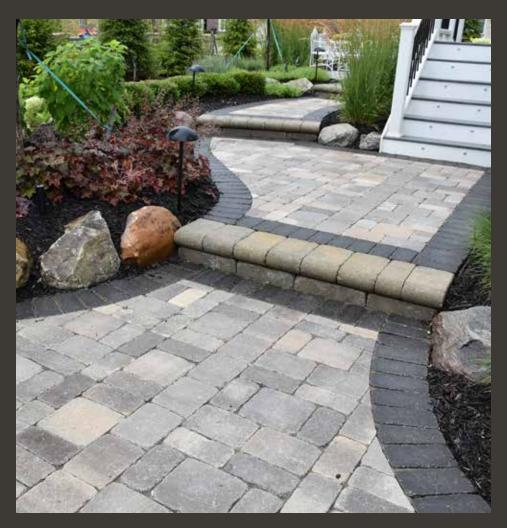
PAVERS: HARBOR STONE – WALNUT BLEND WALLS & OVEN: STONEGATE – WALNUT BLEND CAPS: 3x24 CAP – SLATE



PAVING STONES

PAVERS: OLD WORLD VINTAGE – POLAR ASH ACCENT PAVERS: OLD WORLD VINTAGE XLR – JET BLACK STEP COPING: OLD WORLD GLENSTONE BULLNOSE – LIMESTONE BLEND

CONTENTS



When it comes to choosing a pavement surface that combines beauty, strength, color, texture and durability, it's hard to look any further than interlocking concrete paving stones, or pavers, for the perfect answer for your driveway, walk or patio.

The wide range of styles and shapes gives the design flexibility to create the most imaginative layouts and patterns. The vast choices of vibrant colors open the possibilities to match virtually any color scheme that you can dream of. And the strength and durability of pavers will pass the most stringent engineering tests that concrete can be put through.

For many years, Fendt has been known as a premier and quality paver manufacturer with some of the richest and most varied colors available to the homeowner and designer alike. As you page through this catalog and begin to dream of your new or refurbished patio, pool deck or driveway, let your imagination dream what can be possible. Fendt — Dream in Color.

OLD WORLD HOLLAND 4x8

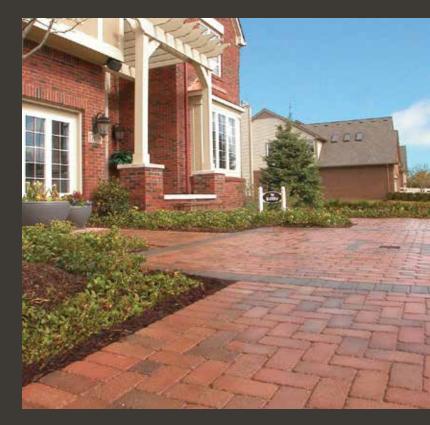
NEXT PAGE: PAVERS: OLD WORLD HOLLAND 4x8 - BURGUNDY BLEND BORDERS: HOLLAND 4x8 - SLATE OLD WORLD VINTAGE - LIMESTONE BLEND



OLD WORLD HOLLAND 4x8

Units per sq. ft.: 4.5 Sq. ft. per cube: 108 Weight per sq. ft.: 28 lbs. Weight per cube: 3,024 lbs.

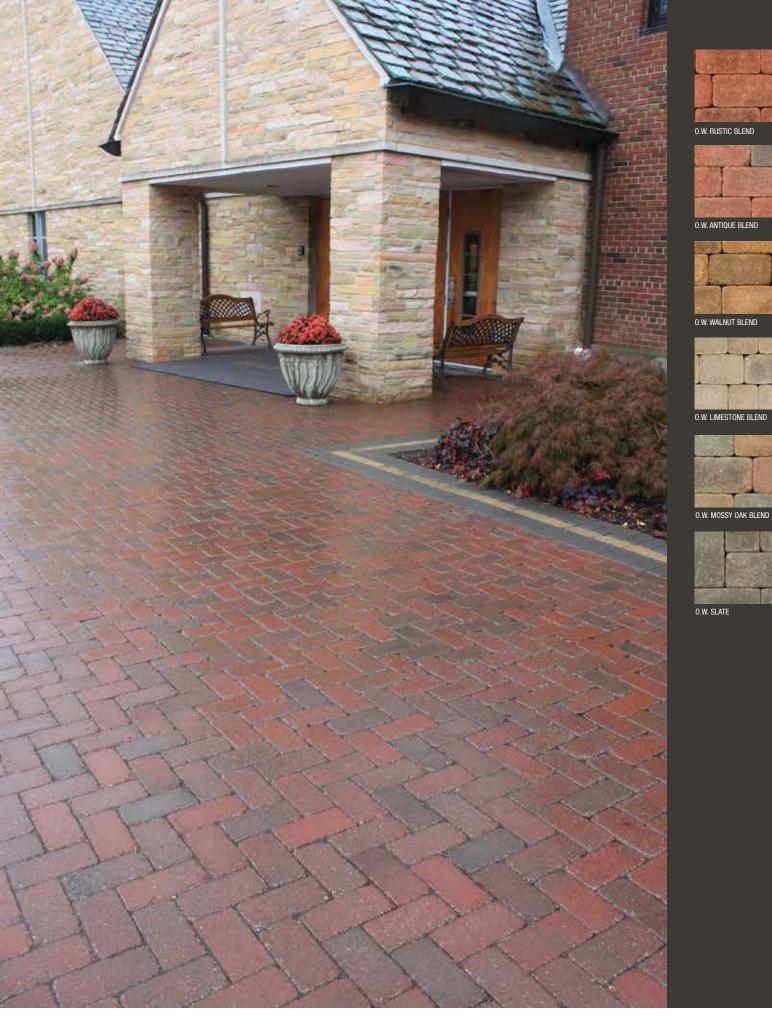
Sq. ft. per strap: 18 Soldier Coursing: Per Strap – 27 lineal feet Per Cube – 162 lineal feet



RIGHT: PAVERS: OLD WORLD HOLLAND 4x8 – RUSTIC BLEND BORDER: HOLLAND 4x8 – SLATE

BELOW: PAVERS: OLD WORLD HOLLAND 4x8 – BURGUNDY BLEND BORDERS: HOLLAND 4x8 – SLATE OLD WORLD VINTAGE – LIMESTONE BLEND





OLD WORLD VINTAGE

PAVERS: OLD WORLD VINTAGE – SEASHELL BLEND ACCENT PAVERS: OLD WORLD VINTAGE XLR – COFFEE







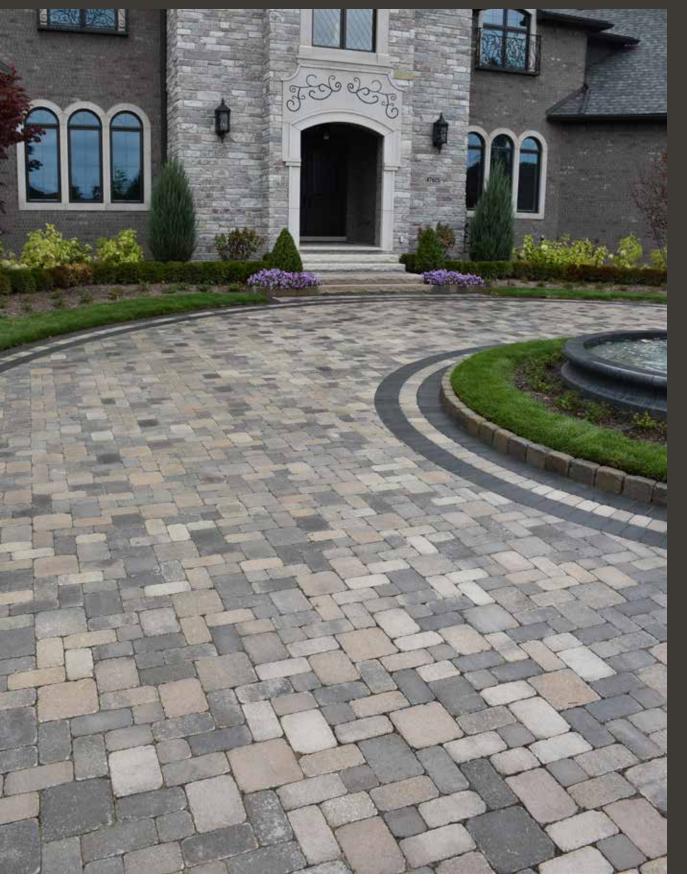


0.W. SEASHELL BLEND





0.W. SUMMER WHEAT



OLD WORLD VINTAGE

PAVERS: OLD WORLD VINTAGE – POLAR ASH STEPS & BORDERS: OLD WORLD GLENSTONE – SLATE

Large Square



Double Large Rectangle



XL Rectangle



Large Rectangle



Square





OLD WORLD VINTAGE SERIES







Large Rectangle



Half Small Stone Circle

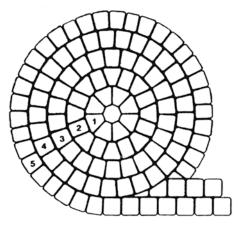


LARGE SQUARE CUBE		UNITS PER SQ. FT.	UNITS PER LAYER	SQ. FT. PER LAYER		NITS PER CUBE	SQ. FT. PER CUBE	SQ. FT. PER STRAP	WEIGHT PER SQ. FT. (LBS.)
	<i>Large Square</i> 9-1/2" x 9-1/2" x 2-3/8"	1.65	20	12.1		160	97	19.4	28
DOUBLE LARGE RECTANGLE CUBE		UNITS PER SQ. FT.	UNITS PER LAYER	SQ. FT. PER LAYER		NITS PER CUBE	SQ. FT. PER CUBE	SQ. FT. PER STRAP	WEIGHT PER SQ. FT. (LBS.)
	Double Large Rectangle 7-1/8" x 9-1/2" x 2-3/8"	2.2	25	11.36		200	91	18.2	28
XL RECTANGLE CUBE		UNITS PER SQ. FT.	UNITS PER LAYER	SQ. FT. PER LAYER	UNITS PER CUBE	R SQ. FT CU			SOLDIER COURSING LINEAL FOOTAGE
	Extra Large Rectangle 9-1/2" x 4-3/4" x 2-3/8"	3.1	35	11.2	280	90) 17.92	28	CUBE STRAP 111 22.2
LARGE RECTANGLE C	UBE	UNITS PER SQ. FT.	UNITS PER LAYER	SQ. FT. PER LAYER	UNITS PER CUBE	R SQ. FT CU			SOLDIER COURSING LINEAL FOOTAGE
	Large Rectangle 7-1/8" x 4-3/4" x 2-3/8"	4.2	42	10.0	336	80) 13.33	28	CUBE STRAP 133 22.2
SQUARE CUBE		UNITS PER SQ. FT.	UNITS PER LAYER	SQ. FT. PER LAYER		NITS PER CUBE	SQ. FT. PER CUBE	SQ. FT. PER STRAP	WEIGHT PER SQ. FT. (LBS.)
	Square 4-3/4" x 4-3/4" x 2-3/8"	6.3	63	10.0		504	80	8.89	28
CIRCLE BOX (1 CIRC	CLE PER BOX)	UNITS PER SQ. FT.	UNITS PER LAYER	SQ. FT. PER LAYER	UI	NITS PER BOX	SQ. FT. PER BOX	SQ. FT. PER STRAP	WEIGHT PER SQ. FT. (LBS.)
	<i>Square</i> 4-3/4" x 4-3/4" x 2-3/8"	6.3				56	8.85		28
	<i>Large Circle</i> 4-11/16" x 4-5/16" x 2-3/8"	8.3				120	14.45		28
	<i>Small Circle</i> 4-11/16" x 4-5/16" x 2-3/8"	8.7				16	1.8		28
	Half Stone 4-3/4" x 3-5/8" x 2-3/8"	8.4				84	10		28
	Center Stone 4-3/4" x 3-5/8" x 2-3/8"	9.0				4	0.4		28
	Totals for Cube					280	35.5		1,988

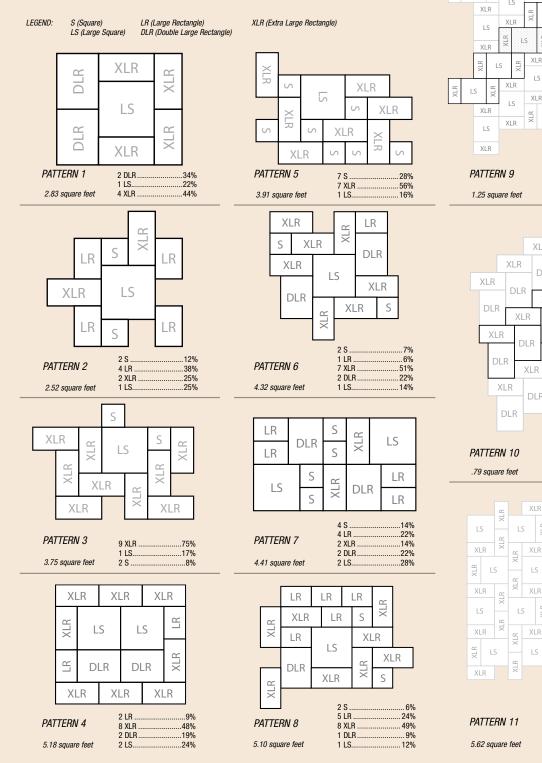
LAYING A CIRCLE

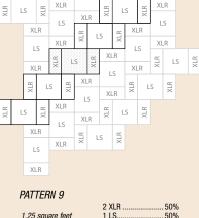
ROW NUMBER	SMALL CIRCLE	LARGE CIRCLE	HALF STONE	SQUARE STONE	Diameter (Inches)	SEQUENCE
1	8	_	_	_	14-1/8	Next to each other
2	8	_	8	—	23-1/2	SC, HS, SC, HS, etc.
3	_	24	_	_	33	Next to each other
4	—	24	7	1	42-1/2	LC, LC, LC, HS, LC, LC, LC,
						HS, etc., plus a square at random
5	_	24	16	_	52	HS, LC, HS, LC, LC, HS, LC, HS,
						LC, LC, etc.
6	—	24	24	—	61-1/2	LC, HS, LC, HS, etc.
7	_	22	23	9	71	LC, HS, LC, HS, Square, LC, HS,
						LC, HS, Square, etc.

Note: The extra Square Stones left from the Circle Cube can be used to enlarge the circle and to complete your project by themselves or with the stones from the Square/Small Rectangle (SSR) Cube and Large Rectangle (LR) Cube.



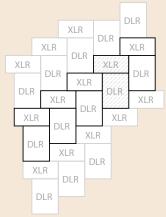
OLD WORLD VINTAGE PATTERNS





XLR

XLR



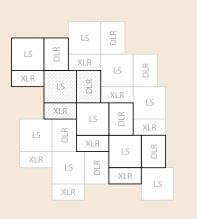
PATTERN 10	
	1 XLR 40%
.79 square feet	1 DLR60%



IERN 11	
	10 XLR
oquara faat	416

. 56%

44%



PATTERN 12	1 XLR22%
	1 DLR 34%
1.41 square feet	1 LS 44%

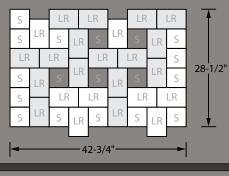


2.81 square feet	5 XLR56% 2 LS44%

					_				
LS	DLR	XLR	LS	DLR	LS	DLR	XLR	LS	DLR
LS	DLR	XLR	LS	DLR	LS	DLR	XLR	LS	DLR
LS	DLR	XLR	LS	DLR	LS	DLR	XLR	LS	DLR
LS	DLR	XLR	LS	DLR	LS	DLR	XLR	LS	DLR

PATTERN 14	2 LS50%
2.51 sauare feet	2 DLR
2.51 Square leel	T ALN 12 /0

SIDEWALK PATTERNS



LS	S		LS		XLR		R		
LJ	XLR					S	XLR		
XLR	XL	XI	R	XLR		.5	XL	20	 ·1/2'
LS	XL	LR XL		R	XLR	LS		20-	· 1/ Z
LJ	XLR		S	XLR	ХI	LJ			
XLR	XL	L	.5	XI	XI	R	S	,	,
 		—4	2-3/4	4"—					

SIDEWALK PATTERN 2	
8.48 square feet	
2 S4	
14 XLR	

S	LR	DI	LR	LR	Х	XLR		XLR		
XLR	D	VI		R	LR	L	S	XLR		
		S	LR	XI	R	~	XL		28-	1/2"
l	S		S	D	_R XIX			S		
Х	LR		.5	LR	1	LR		.5		
≁-			—4	2-3/4	4"—			->		

LR		LS		IC		ιc		LC		LC					LR S		5	LR	1	
DLR		L	LS		DLR		XLR		LS											
DLK		XL	R		LS		DLI	D		LJ	20	1/2								
LS		Г	DLR	LS I		DER			XLR	28-	·1/∠ 									
LJ		L	LL		XLR			LS		DLR										
LR	S	5	LR		LR		L	2		DLK	,	,								
				4	2 2 /	4"														
				- 4.	2-3/4	+ -														

SIDEWALK PATTERN 3
8.48 square feet
2 S

SIDEWALK	
PATTERN 4	
8.48 square feet	
2 S	
6 LR 17%	
4 VID 150/	

4 XLR 15	5%
5 DLR 28	3%
5 LS 37	7%

	SQ. FT. PER CUBE	UNITS PER SQ. FT.	UNITS PER CUBE	SQ. FT. PER STRAP
Square (O.W. only)	80	6.3	198	8.89
Square/Small Rectangle	80		576	8.89
Large Rectangle	80	4.2	336	13.33
Extra Large Rectangle	90	3.1	280	17.92
Double Large Rectangle	91	2.2	200	18.2
Large Square	97	1.6	160	19.4

HARBOR STONE

PAVERS: HARBOR STONE – IRONWOOD ACCENT PAVERS: OLD WORLD VINTAGE DLR – SUMMER WHEAT OLD WORLD VINTAGE XLR – COFFEE



PAVERS: HARBOR STONE – STERLING SMOKE ACCENT PAVERS: OLD WORLD VINTAGE XLR – JET BLACK STEP COPING: 3x24 SOFT SPLIT CAP – LIMESTONE BLEND PORCH COPING: OLD WORLD GLENSTONE – LIMESTONE BLEND



HARBOR STONE

PAVERS: HARBOR STONE – WALNUT BLEND WALLS: STONEGATE – WALNUT BLEND CAPS: 3x24 SMOOTH CAP – SLATE



UPPER PATIO PAVERS: HARBOR STONE – IRONWOOD LOWER PATIO PAVERS: OLD WORLD VINTAGE – IRONWOOD ACCENT PAVERS: OLD WORLD VINTAGE XLR – JET BLACK WALL STONES: GLENSTONE – IRONWOOD WALL CAPS: OLD WORLD GLENSTONE – SLATE



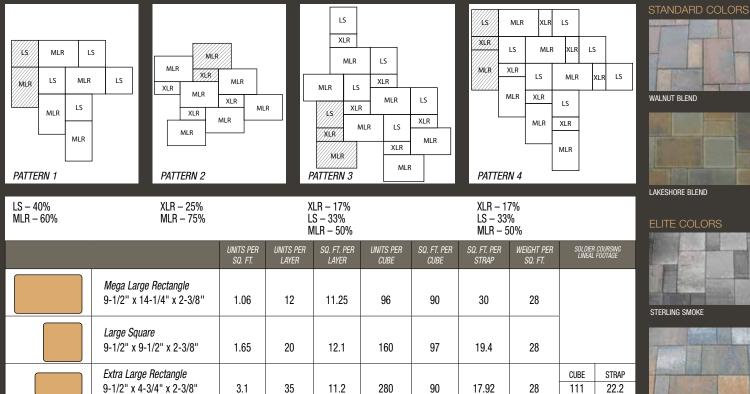
HARBOR STONE

PAVERS: HARBOR STONE – IRONWOOD ACCENT PAVERS: HOLLAND 4x8 – COFFEE & JET BLACK WALL STONES: GLENSTONE – LIMESTONE BLEND STEPS: 3x24 SMOOTH CAP – SLATE



HARBOR STONE & BAY STONE PATTERNS





IRONWOOD

BAY STONE - NEW FOR 2020

> AU GRES



PRODUCT INFORMATION

SMOOTH CONTEMPORARY FINISH 60 mm. Series – 3 Sizes • XLR 9.5" x 4.75"

• XLR 9.5" x 4.75" • LS 9.5" x 9.5" • MLR 9.5" x 14.25"

Modular with Harbor Stone

XLR also available in Jet Black

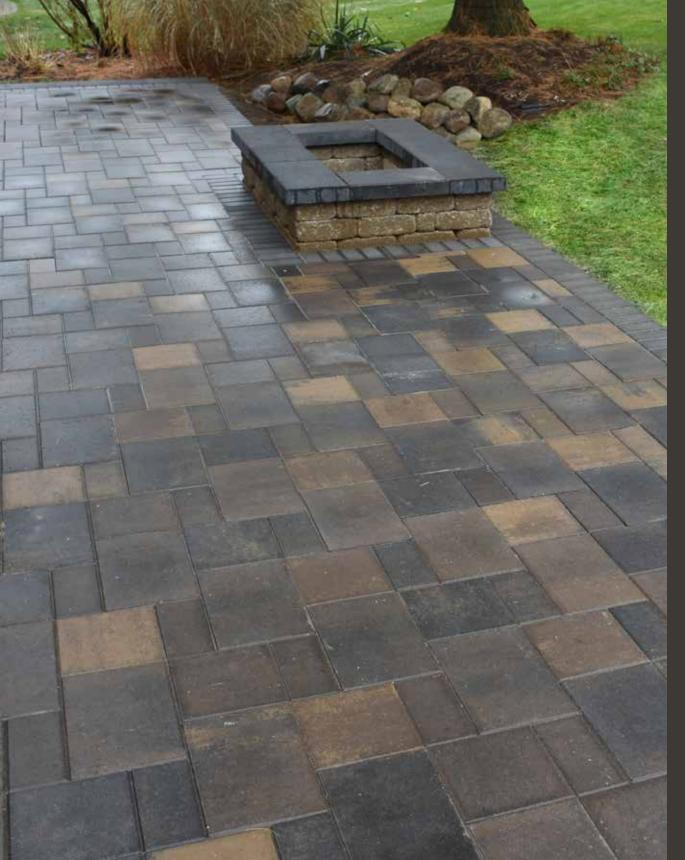
MACKINAC





BIRCHWOOD

BAY STONE - NEW FOR 2020 PAVERS: BAY STONE - MACKINAC FIRE PT: OLD WORLD GLENSTONE - CHESTNUT FIRE PT: CAP: 3X24 SMOOTH CAP - SLATE



BIRCHWOOD



MACKINAC



AU GRES

VINTAGE





RUSTIC BLEND

ANTIQUE BLEND

SANDSTONE BLEND

WALNUT BLEND

LAKESHORE BLEND





STERLING SMOKE

VINTAGE - PAVERS I 31

VINTAGE



VINTAGE SERIES

	Large Rectangle	Square		Small ctangle	Half Stone	Small Circle	Large Circle	Cent Ston			
LARGE RECTANGLE	CUBE		UNITS PER SQ. FT.	UNITS PER LAYER	SQ. FT. PER LAYER	UNITS PER CUBE	SQ. FT. PER CUBE	SQ. FT. PER STRAP	WEIGHT PER SQ. FT.	SOL COUF LIN FOO	.DIER RSING IEAL ITAGE
	Large Rectangle 7-1/8" x 4-3/4" x 2-3/8"		4.2	42	10.0	336	80	13.33	28	CUBE 133	strap 22.2

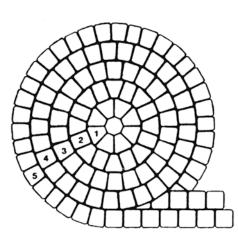
SQUARE & SMALL RECTANGLE CUBE			UNITS PER LAYER	SQ. FT. PER LAYER	UNITS PER CUBE	SQ. FT. PER CUBE	SQ. FT. PER STRAP	WEIGHT PER SQ. FT. (LBS.)
Square 4-3/4" x 4-3/4" x 2-3/8"		6.3	54	8.5	432	68.6	8.89	28
Small Rectangle 4-3/4" x 2-7/16" x 2-3/8"		12.6	18	1.4	144	11.4	0.00	28
Totals for Cube			72		576	80		2,440

CIRCLE CUBE	(1 circle per cube)	UNITS PER SQ. FT.	UNITS PER LAYER	SQ. FT. PER LAYER	UNITS PER CUBE	SQ. FT. PER CUBE	SQ. FT. PER STRAP	WEIGHT PER SQ. FT. (LBS.)
	Square					1		
	4-3/4" x 4-3/4" x 2-3/8"	6.3	14	2.2	56	8.85		28
	Large Circle							
	4-11/16" x 4-5/16" x 2-3/8"	8.3	30	3.6	120	14.45		28
	Small Circle							
	4-11/16" x 4-5/16" x 2-3/8"	8.7	4	0.5	16	1.8		28
	Half Stone							
	4-3/4" x 3-5/8" x 2-3/8"	8.4	21	2.5	84	10		28
	Center Stone							
	4-3/4" x 3-5/8" x 2-3/8"	9.0	1	0.1	4	0.4		28
	Totals for Cube				280	35.5		994

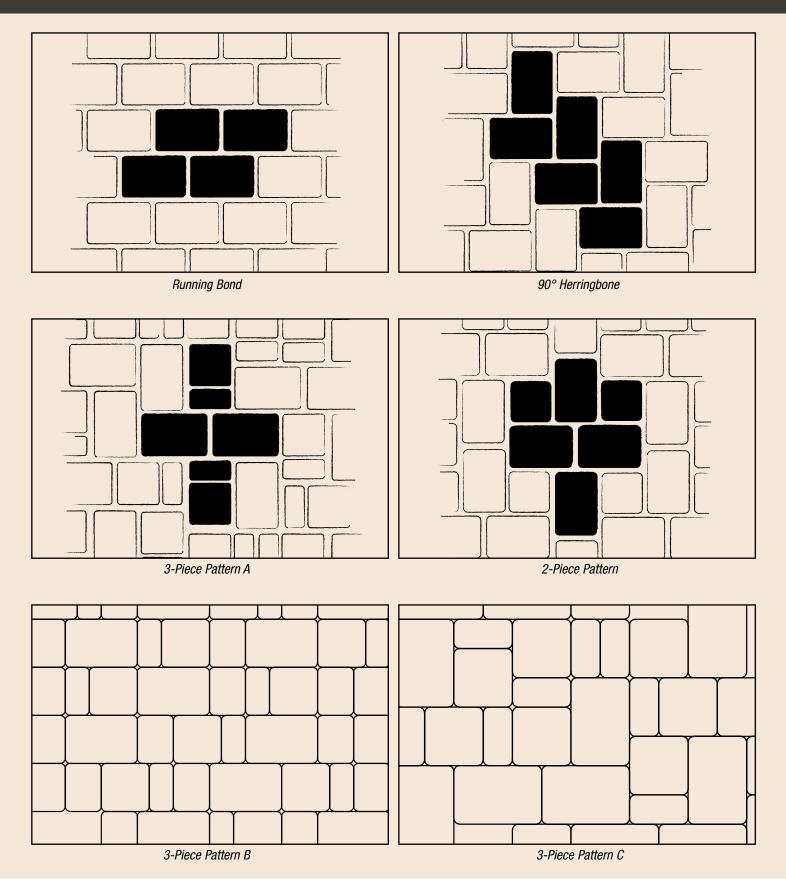
LAYING A CIRCLE

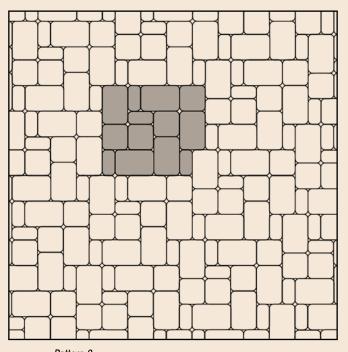
ROW NUMBER	SMALL CIRCLE	LARGE CIRCLE	HALF STONE	SQUARE STONE	Diameter (Inches)	SEQUENCE
1	8	_	_	_	14-1/8	Next to each other
2	8	—	8	—	23-1/2	SC, HS, SC, HS, etc.
3	_	24	_	_	33	Next to each other
4	_	24	7	1	42-1/2	LC, LC, LC, HS, LC, LC, LC,
						HS, etc., plus a square at random
5	_	24	16	—	52	HS, LC, HS, LC, LC, HS, LC, HS,
						LC, LC, etc.
6	—	24	24	—	61-1/2	LC, HS, LC, HS, etc.
7	_	22	23	9	71	LC, HS, LC, HS, Square, LC, HS,
						LC, HS, Square, etc.

Note: The extra Square Stones left from the Circle Cube can be used to enlarge the circle and to complete your project by themselves or with the stones from the Square/Small Rectangle (SSR) Cube and Large Rectangle (LR) Cube.

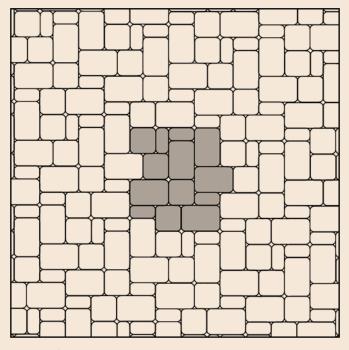


VINTAGE PATTERNS

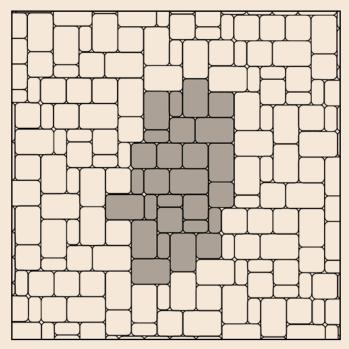




Pattern 3 4.62 x 2.31 = 14.53% (4, Small Rectangles) 4.62 x 4.62 = 29.53% (4, Squares) 7.00 x 4.62 = 55.94% (5, Large Rectangles)

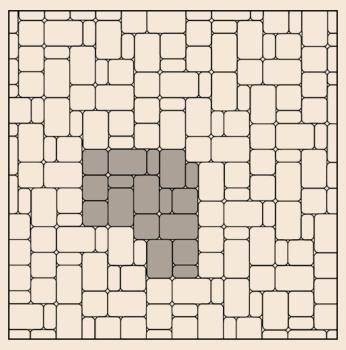


Pattern 5 4.62 x 2.31 = 14.53% (4, Small Rectangles) 4.62 x 4.62 = 29.53% (4, Squares) 7.00 x 4.62 = 55.94% (5, Large Rectangles)



Pattern 4

4.62 x 2.31 = 13.56% (8, Small Rectangles) 4.62 x 4.62 = 36.32% (10, Squares) 7.00 x 4.62 = 50.12% (9, Large Rectangles)



Pattern 6 4.62 x 2.31 = 14.21% (5, Small Rectangles) 4.62 x 4.62 = 34.11% (6, Squares) 7.00 x 4.62 = 51.68% (6, Large Rectangles)

SYMETRY®

NEXT PAGE: PAVERS: SYMETRY – RUSTIC BLEND 6x6 – CUSTOM COLOR VENETIAN PARQUET PATTERN



SYMETRY

Units per sq. ft.: 3.4 Sq. ft. per cube: 84 Weight per sq. ft.: 28 lbs. Weight per cube: 2,352 lbs. Sq. ft. per strap: 21

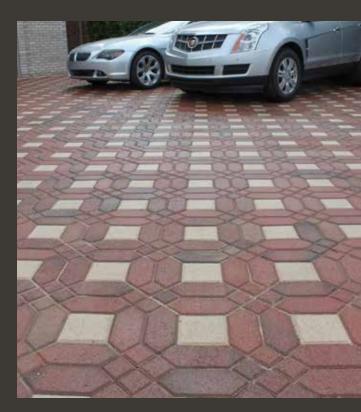


6x6 SQUARE

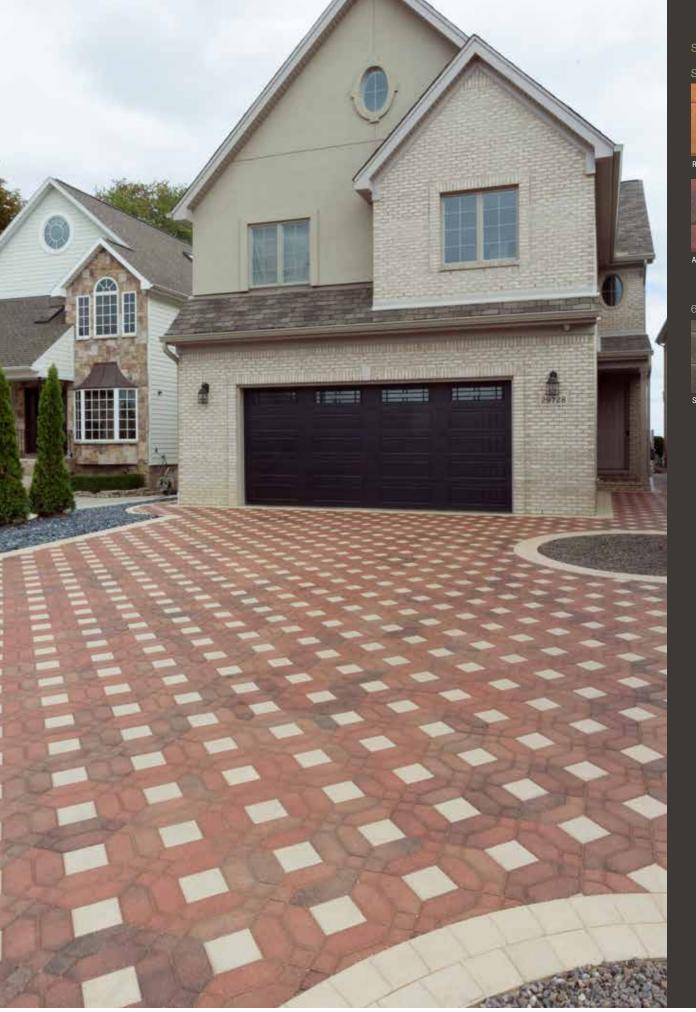
Units per sq. ft.: 4 Sq. ft. per cube: 92 Weight per sq. ft.: 28 lbs. Weight per cube: 2,576 lbs. Sq. ft. per strap: 13.14

RIGHT: PAVERS: SYMETRY VENETIAN PARQUET PATTERN – RUSTIC BLEND 6x6 – CUSTOM COLOR

BELOW: PAVERS: SYMETRY VENETIAN PARQUET PATTERN – ANTIQUE BLEND 6x6 – SLATE







STANDARD COLORS

SYMETRY



ANTIQUE BLEND

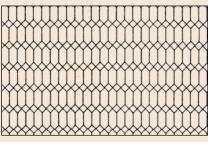


SYMETRY - PAVERS I 37

SYMETRY®

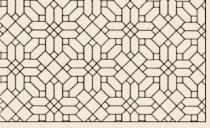


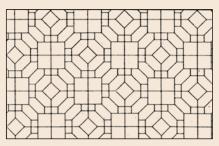
SYMETRY® PATTERNS (SHOWN WITH 6x6)



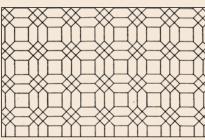
Diamond Run Pattern

100% SYMETRY Pattern #7



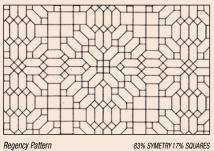


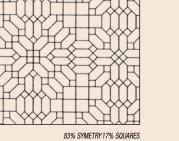
74.5% SYMETRY 25.5% SQUARES Grand Parquet Pattern 66.2% SYMETRY 33.8% SQUARES

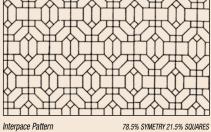


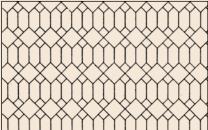
Venetian Parquet Pattern

83% SYMETRY 17% SQUARES



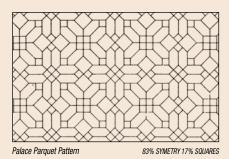


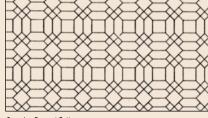




Embassy Row Pattern

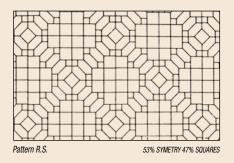
71% SYMETRY 29% SQUARES





Georgian Parquet Pattern

78.5% SYMETRY 21.5% SQUARES



Rondolais Pattern

100% SYMETRY

Approximate Scale: 1/4" = 1' (Percentages in Square Feet)

SYMETRY - PAVERS I 39



HOLLAND 4x8

PAVERS: HOLLAND 4x8 – BURGUNDY BLEND FIRE PIT: FIRE PIT BLOCK – CAMEL FIRE PIT CAP: 4" RADIUS GLENSTONE – CAMEL



> PAVERS: HOLLAND 4x8 – POLAR ASH ACCENT PAVERS: HOLLAND 4x8 – SLATE



HOLLAND 4x8

PAVERS: HOLLAND 4x8 – SUMMER WHEAT ACCENT PAVERS: HOLLAND 4x8 – COFFEE STEPS: 3x24 SMOOTH CAP – CHESTNUT



PAVERS: HOLLAND 4x8 - SANDSTONE BLEND ACCENT PAVERS: HOLLAND 4x8 - COFFEE WALLS: OLD WORLD STONEGATE - SEASHELL BLEND CAPS: 3x24 SMOOTH CAP - CHESTNUT

STANDARD COLORS















SANDSTONE BLEND



WALNUT BLEND









ELITE COLORS



IRONWOOD



WHITESTONE





SEASHELL BLEND



ELITE COLORS



24



JET BLACK







SPECTRUM COLORS

BURGUNDY



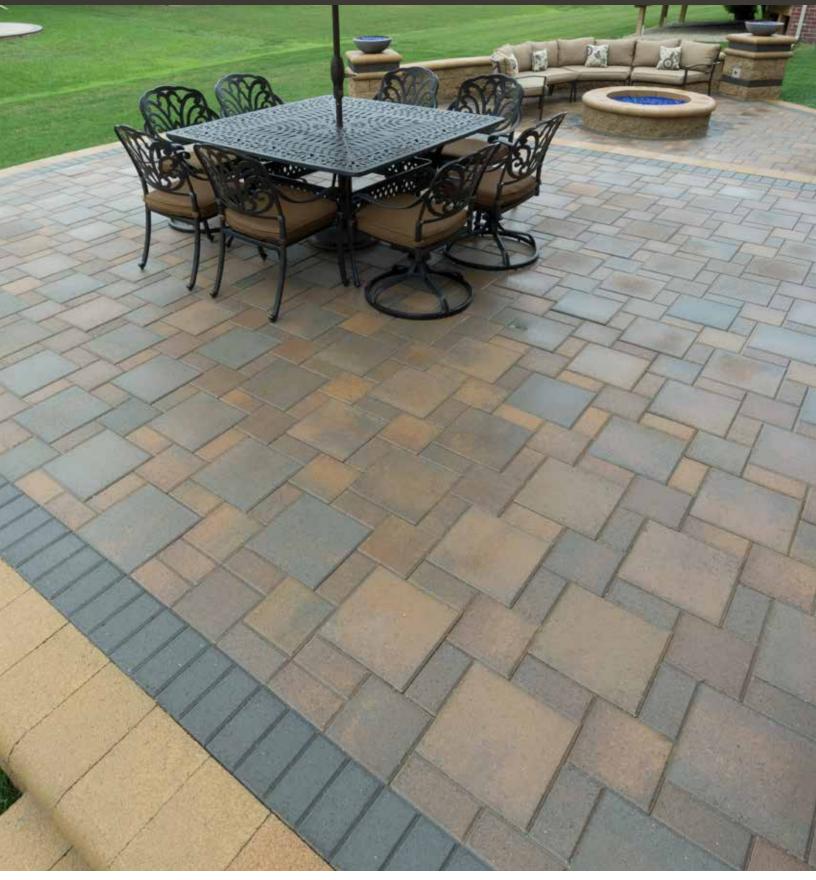
SEDONA



HOLLAND 4x8 - PAVERS I 43

HOLLAND SERIES

PAVERS: HOLLAND SERIES – WALNUT BLEND ACCENT PAVERS: HOLLAND 4x8 – SLATE BORDER BLOCK: GLENSTONE BULLNOSE – CAMEL WALLS: VERAZZO STONE – CAMEL FIRE PIT: VERAZZO STONE – CAMEL



PAVERS: HOLLAND SERIES – STERLING SMOKE ACCENT PAVERS: HOLLAND 4x8 – SLATE WALL STONES: STONEGATE – LIMESTONE BLEND WALL CAPS: 3x24 SMOOTH CAP – SLATE



HOLLAND SERIES

PAVERS: HOLLAND SERIES – SANDSTONE BLEND BORDER PAVERS: HOLLAND 4x8 – COFFEE WALL STONES: STONEGATE – CAMEL CAPS & STEPS: 3x24 SMOOTH CAP – CHESTNUT





STANDARD COLORS



SANDSTONE BLEND



WALNUT BLEND



LIMESTONE BLEND

ELITE COLORS

LAKESHORE BLEND



STERLING SMOKE

RIGHT:

RIGHT: PAVERS: HOLLAND SERIES – LIMESTONE BLEND ACCENT PAVERS: HOLLAND 4x8 – JET BLACK WALL STONES: STONEGATE – LIMESTONE CAPS & STEPS: 3x24 SMOOTH CAP – SLATE

HOLLAND 4x8

2-3/8" thick Units per sq. ft.: 4.5 Sq. ft. per cube: 108 Weight per sq. ft.: 28 lbs. Weight per cube: 3,024 lbs. Sq. ft. per strap: 18

HOLLAND 12x12

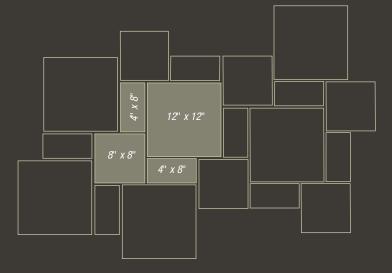
2-3/8" thick Units per sq. ft.: 1 Sq. ft. per cube: 72 Weight per sq. ft.: 28 lbs. Weight per cube: 2,016 lbs. Sq. ft. per strap: 18



HOLLAND 8x8

2-3/8" thick Units per sq. ft.: 2.25 Sq. ft. per cube: 96 Weight per sq. ft.: 28 lbs. Weight per cube: 2,688 lbs. Sq. ft. per strap: 16

HOLLAND SERIES PATTERN ► Approximate % 4" x 8" 24% 8" x 8" 24% 12" x 12" 52%



TOP: PAVERS: HOLLAND SERIES – LAKESHORE BLEND ACCENT PAVERS: HOLLAND 4x8 – SLATE WALL STONES: STONEGATE – JIMESTONE BLEND WALL ACCENT COURSE: STONEGATE – SLATE CAPS & STEPS: 3x24 SMOOTH CAP – SLATE BOTTOM: PAVERS: HOLLAND SERIES – STERLING SMOKE ACCENT PAVERS: HOLLAND 4x8 – JET BLACK STEPS COPING: 3x24 SMOOTH CAP – SLATE



STANDARD COLORS

Fendt offers separate color lines at three separate pricing levels, which include Standard Colors, Spectrum Colors and Elite Colors. Fendt's Standard Colors offer some of the widest varieties of both solid colors and blended colors that are available in today's market.



RUSTIC BLEND



WALNUT BLEND



PEWTER



ANTIQUE BLEND



LIMESTONE BLEND



RED



SANDSTONE BLEND



SLATE



LAKESHORE BLEND



MOSSY OAK BLEND

WHEN SELECTING COLOR: The color samples depicted are only a guide to assist in color selection and should not be used to select final color. Actual colors of pavers and walls may vary due to the nature of the raw materials used in processing and the variation of reproduction and printing processes. Final color selection should be made from actual paver and wall products. When installing pavers, use several cubes simultaneously for proper color blending.

SPECTRUM COLORS & ELITE COLORS

Fendt offers two premium color lines, namely Spectrum Colors and Elite Colors. The Spectrum Colors line offers deeper and richer color tones which take standard paver colors to a higher level. The Elite Colors line offers the latest color possibilities when premium colors are combined with premium cements.

SPECTRUM COLORS



BURGUNDY

ELITE COLORS



IRONWOOD

ELITE COLORS



JET BLACK



SEDONA



STERLING SMOKE



SEASHELL BLEND



POLAR ASH



WHITESTONE

GRAYLING



COFFEE



SUMMER WHEAT

	A-SPATESTER	
		The state
		21 199
ALC: NOT	Star 1980	

ALABASTER



OLD WORLD COLORS

WHEN SELECTING COLOR: The color samples depicted are only a guide to assist in color selection and should not be used to select final color. Actual colors of pavers and walls may vary due to the nature of the raw materials used in processing and the variation of reproduction and printing processes. Final color selection should be made from actual paver and wall products. When installing pavers, use several cubes simultaneously for proper color blending.

STANDARD COLORS



LIMESTONE BLEND



WALNUT BLEND



ANTIQUE BLEND



RUSTIC BLEND



SLATE





POLAR ASH

SUMMER WHEAT

SEASHELL

ACCENT PAVERS — ELITE COLORS

TOP: PAVERS: OLD WORLD VINTAGE – SEASHELL BLEND ACCENT PAVERS: OLD WORLD VINTAGE XLR – RUBY & JET BLACK

BOTTOM: PAVERS: OLD WORLD VINTAGE – SEASHELL BLEND ACCENT PAVERS: OLD WORLD VINTAGE XLR – JET BLACK



ELITE ACCENT COLORS INVENTORIED IN OLD WORLD VINTAGE EXTRA LARGE RECTANGLE





CUSTOM COLOR PROJECTS

Looking for something just a little out of the ordinary? While most wall stone and paver products are stocked in a wide range of common colors, Fendt has the capability to produce custom colors on select jobs. Need your driveway pavers a certain shade of gray or even something bolder? Have a special color that is your backyard patio inspiration? Perhaps you just want something no one else has! Fendt understands.





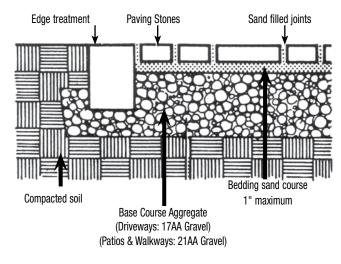


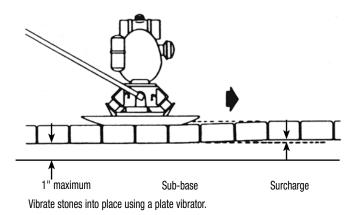


PAVER INSTALLATION INSTRUCTIONS

Interlocking Concrete Paving Stones

- 1. Prepare the site, making a compacted base with 21AA gravel between 8" and 12" for driveways and with 21AA gravel up to 4" to 6" for patios and walkways. Slope as necessary.
- 2. Spread a layer of 2NS concrete sand 1" over compacted base. It is important to maintain consistent thickness of bedding sand. Screed the sand to desired level. Allow for thickness of paver and for compaction of sand (approximately 1/4" to 1/2") to be done in step #5.
- 3. Lay the paving stones in the patterns you choose, starting the edge stones from an existing line such as a curb or house.
- 4. Make any necessary cutting of stones with a paving stone splitter or masonry saw.
- 5. Make a minimum of two passes over paving stones with a plate vibrator.
- 6. Fill the joints by sweeping dry sand over the paving stones, leaving a thin layer for final vibration.
- 7. Vibrate sand into joints and sweep off excess sand. The pavement is now ready for immediate use.



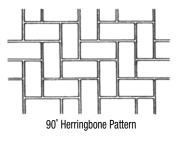


Interlocked Patterns

The Herringbone Patterns

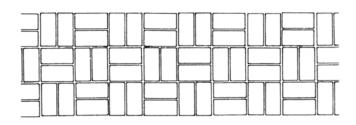
Form the greatest interlock, since the longest continuous joint is only 1-1/2" stones.





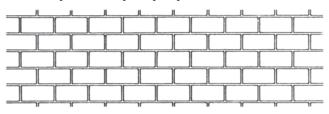
Parquet Pattern

A pattern with unlimited variations.



Running Bond Pattern

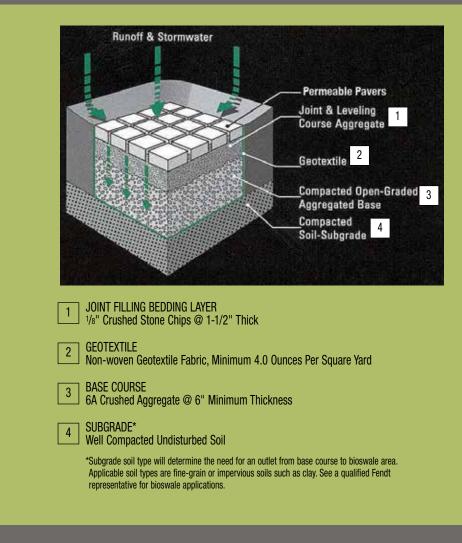
A traditional pattern that, when used for vehicular traffic, should have traffic crossing the stones' length at right angles.



ENVIRONMENTAL PRODUCTS

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Permeable Pavers	58-61
Monoslab [®] Grass Paver	62-63
Geolink Erosion Control	64



Permeable pavements now offer a new dimension by allowing a higher percentage of rainwater to permeate through the pavement system as opposed to overburdened storm water systems. When installed as part of the Bio-Aquifer Storm System (BASS), permeable pavers allow for natural storm water drainage and ground water recharge, making them ecologically sound and economically smart.

A parking lot or street created with BASS uses durable, permeable components that allow water to flow through, retaining the water runoff and directing it through a series of natural filtration systems before it enters nearby streams or rivers. Fendt's Eco-Brick[™] and Eco-Classic are the perfect solution that can transform any paver parking lot, driveway or pavement area into a beautiful and sustainable pavement that effectively manages storm water.

PERMEABLE PAVERS: ECO-CLASSIC

Eco-Classic

PRODUCT INFORMATION

FULL BRICK 4-1/2" x 9" x 3-1/8" .272 sq. ft. per unit 3.68 units per sq. ft. 36 units/layer, 252/cube HALF BRICK 4-1/2" x 4-1/2" x 3-1/8" .136 sq. ft. per unit 7.35 units per sq. ft. 8 units/layer, 56/cube

10.9 sq. ft. per layer 76.30 sq. ft. per cube

Weight per cube: 2,719 lbs.



ECO-CLASSIC INVENTORIED IN LIMESTONE BLEND (ABOVE) AND WALNUT BLEND

Old World Eco-Classic (SPECIAL ORDER)

PRODUCT INFORMATION

FULL BRICK 4-1/2" x 9" x 3-1/8" .272 sq. ft. per unit 3.68 units per sq. ft. 36 units/layer, 252/cube HALF BRICK 4-1/2" x 4-1/2" x 3-1/8" .136 sq. ft. per unit 7.35 units per sq. ft. 8 units/layer, 56/cube

10.9 sq. ft. per layer 76.30 sq. ft. per cube

Weight per cube: 2,719 lbs.



OLD WORLD ECO-CLASSIC

PERMEABLE PAVERS: ECO-CLASSIC



PERMEABLE PAVERS: ECO-CLASSIC

> PAVERS: ECO-CLASSIC – SANDSTONE BLEND ACCENT PAVERS: ECO-CLASSIC – JADE



PERMEABLE PAVERS: ECO-BRICKTM (SPECIAL ORDER)

ECO-BRICK – LIMESTONE BLEND BORDER: HOLLAND 4x8 – SLATE



PRODUCT INFORMATION

FULL BRICK 4-1/2" x 9" x 3-1/8" .272 sq. ft. per unit 3.68 units per sq. ft. 36 units/layer, 252/cube HALF BRICK 4-1/2" x 4-1/2" x 3-1/8" .136 sq. ft. per unit 7.35 units per sq. ft. 8 units/layer, 56/cube



GRASS PAVERS: MONOSLAB®

MULTI-PURPOSE MONOSLAB GRASS PAVER ... THE PROBLEM SOLVER!

STABILIZES GRASSY AREAS:

- FOR FIRE LANES
- HIGHWAY CROSSOVERS
- RUNWAY SHOULDERS

It's the natural look in paving ... proven over three decades in use. Monoslab Grass Pavers allow a lawn area to be used for parking or driveways — preserving green space in places where it's scarce.

Monoslab Grass Pavers eliminate the dust or mud normally created by allowing traffic in unpaved areas, and can be used in any area where you want to allow vehicular traffic while preserving the look of a lawn.

The unique design of Monoslab affords better weight distribution and increased load bearing capacity. The surface pattern encourages controllable drainage, while stimulating grass growth.

Fast and simple to install in any weather, Monoslab Grass Pavers are available for immediate use.

Monoslab Grass Paver grids permit emergency vehicles and fire trucks to approach buildings from all directions saving time and possibly lives. Heavy trucks drive over stabilized grassy areas leaving no trace.

When considering the areas around apartments and other commercial buildings, the design professional has an alternative to traditional asphalt and other hard surfacing. Monoslab is not subject to most restrictive zoning ordinances that cover hard pavement.

Monoslab grids enable emergency and surface vehicles to cross over between concrete and asphalt pavements.

Especially suitable at curves, concrete grids are readily seen at night. Fast, easy installation. Tire rumbling when driving over the concrete grids alerts drivers.



GOOD NEWS FOR FIREFIGHTERS, LANDSCAPE ARCHITECTS & HIGHWAY/WATERWAY ENGINEERS

SAVES GRASS ... The design professional now has an exciting option when considering surfacing for areas around apartment buildings, shopping malls, office buildings and other urban developments. Monoslab offers a relief from traditional hard surfacing by introducing stabilized grass areas. Suitable for parking lots and overflow parking areas, it will also allow utility trucks to drive over landscaped grounds. **STOPS EROSION** ... Monoslab is the best answer to stabilize slopes and put an end to persistent erosion problems. Even river bed erosion in fast-flowing rivers or open culverts can be effectively controlled with Monoslab.

It is also successfully used as revetments to reinforce reservoirs and shoreline slopes and to provide seawall toe protection. After Monoslab is laid and grass established, an installation can be mowed as normal grass.





MONOSLAB[®] GRASS PAVERS

EASY TO INSTALL

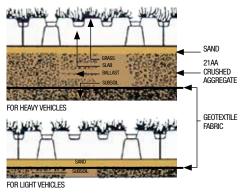


STEP 1 For heavy loads, bulldoze one foot below finished grade.

For light loads (automobiles), bulldoze one-half foot below finished grade.



STEP 2 For light loads, spread and tamp — or roll — one inch sand bed directly on the sub-grade.



STEP 3

For heavy loads (trucks), spread and tamp — or roll — six inches of crushed rock or crushed concrete over continuous geotextile fabric for heavy vehicle base course. Not required for light loads, such as automobiles.

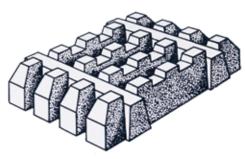
Spread and tamp — or roll — one-inch sand bed on the six-inch ballast course.



STEP 4 Level the paver grids on the sand bed. Keep them "pencil thickness" apart.



STEP 5 Ready for service.



SO MANY BENEFITS:

- Minimize storm water runoff
- Replenish subterranean ground water
- Avoid erosion and soil wash away
- Protect lawns from wheel tracks
- Reduce hard surface pavement

All of the above objectives can be accomplished by installing Monoslab. On a test installation of tufted Grass Paver bedded on two inches of coarse sand spread over six inches of gravel, with clay subsoil, no water ran off for an hour. Storm water runoff then ranged from 5% to 18%.

SPECIFICATIONS

MEASUREMENTS	USA/CAN actual	USA/CAN nominal	USE NOMINAL VALUES FOR COMPUTATIONS	
Length	23-1/2"	24 in 2 ft.	+/- 1/8"	
Width	15-3/8"	16 in 1-1/3 ft.	+/- 1/8"	
Thickness	4-9/16"	4-1/2 in 3/8 ft.	+/- 1/16"	
Area, gross	370 sg. in.	2-2/3 sg. ft.	3 grids = 8 sg. ft.	
Area, upper surface	95 sq. in.	2/3 sq. ft.	25% of gross area	
Area, base surface	326 sq. in.	2-1/2 sq. ft.	85% of gross area	
Weight/grid	94 lb. +/- 3 lbs.	94 lbs.	depends on water absorption	
Strength, compression	4000 psi	4000 psi	per ASTM C140-70	
Braking load, transverse	-	-	see specification and test procedure sheets	
Absorption, water	13 lbs. / cu. ft.	13 lbs. / cu. ft.	per ASTM C140-70	
23.5"		23.5"		
			0.75"	

GEOLINK

Soil erosion has been an issue plaguing engineers for decades. It is a well-known fact that the single biggest impact on water quality is the soil erosion process. As a result of new federal and local regulations mandating the control of silt runoff, the engineering community must now use innovative measures to control the erosion process.

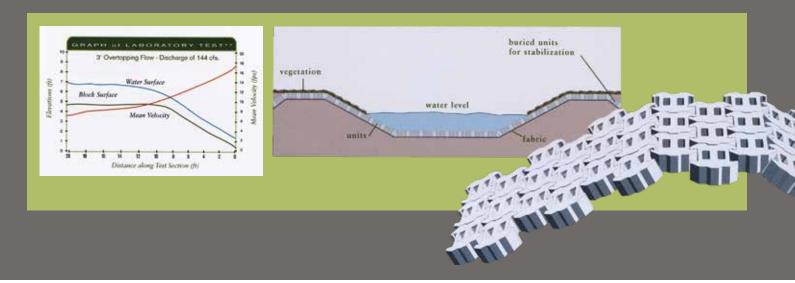
G	Е	0	L	1	Ν	К	Unit S	nit Specifications		
	height 4"	, mile 12	ith III	length 16"	gross	coverage pe 1.12	r ft² weight 36.6	weight per sq ft 32-37	open area % 20	
ι	Units Per Pallet - 48			WEIGHT PER PALLET - 1,469 LBS.						

Geolink's premium design inhibits the transport of soil during the erosion process and helps keep our waterways free from silt and hazardous pollutants. Open cells within the block support and maintain vegetative growth, enhancing water quality through a natural cleansing process by filtering out contaminants. Geolink's superior methods of erosion control promote a natural, aesthetically pleasing environment.



PERMEABLE GRASS PAVER

- · Geolink units with vegetation
- · Soil-filled units
- Engineering fabric layer
- Drainage media
- Prepared subgrade foundation

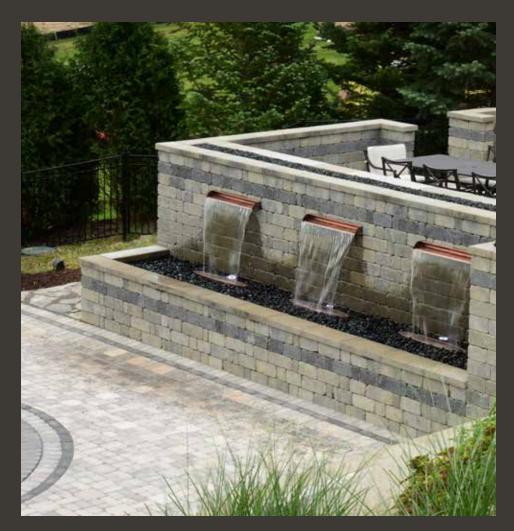


WALL STONES

WALLS: OLD WORLD STONEGATE – LIMESTONE BLEND ACCENT WALL COURSE: OLD WORLD STONEGATE – SLATE CAPS: 3x24 SMOOTH CAPS – LIMESTONE BLEND

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The perfect way to complete your hardscape project is with Fendt concrete wall stones. We feature the Keystone Retaining Wall product line, which has been recognized as the leader in Segmental Retaining Walls (SRWs).

This same style, technology and performance that engineers have specified for years is now available in a wide range of colors and designs to fit your every need and situation. With various styles of wall stones to choose from, your yard can become a showcase to satisfy every possible design.

Fendt's history and experience with colors in concrete pavers is now yours to expand your design options when utilizing retaining walls, courtyard walls, piers and fire pits. As you consider the right wall product to use to complement the rest of your hardscape design, let yourself dream in color!

GARDEN WALL



LIMESTONE BLEND



DESERT BROWN







GOLDEN ROD



RUSTIC BLEND



ANTIQUE BLEND





RIGHT

Keystone garden wall -Rustic blend

RED



When it's time to create the garden of your dreams, Fendt offers a full line of Garden Wall brand wall stones to create the elegant and unique look you want. Garden Wall products come in a wide variety of exceptional

colors. With their three-dimensional, textured appearance, they add an element of rugged

perfection to any garden project.

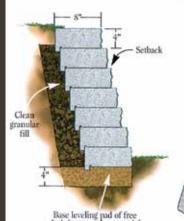
Removing rear lugs when building curves

To remove outside lugs or edges of retaining lip, hold unit securely or place at angle on ground. Strike the lug firmly with a hammer. Always wear safety glasses to protect eyes from chips.

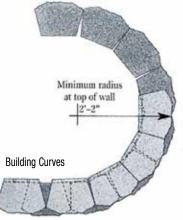
Size: 4"h x 12"w x 8"d Exposed face area: 1/3 sq. ft. (4" x 12") Weight: 25 lbs. Units per pallet: 96 units Weight per pallet: 2,400 lbs.



Typical Landscape Wall Section Shown at Right



Base leveling pad of free draining granular material

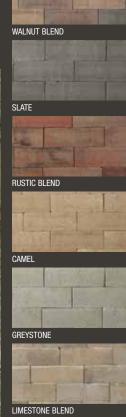


(Unit shown upside-down to show rear lug)

GLENSTONE

WALL STONES: GLENSTONE – SLATE WALL ACCENT COURSE: OLD WORLD VINTAGE XLR – COFFEE WALL CAPS: GLENSTONE BULLNOSE – SLATE PIERS: GLENSTONE – LIMESTONE BLEND PIER ACCENT COURSE: OLD WORLD VINTAGE XLR – COFFEE





BURGUNDY BLEND

CHESTNUT







ALABASTER



Old World 4" Radius Glenstone

- Size: 4"h x 8"d x 12-1/4"/9-1/8"w
- Use with Glenstone to Turn Radius
- No Cutting Required 16 Units per Circle
- Weight: 27.55 lbs.
- Units per pallet: 96 units
- Weight per pallet: 2,645 lbs.
- Stock Colors: Walnut, Rustic, Limestone, Camel, Slate



Glenstone / Old World Glenstone

- Size: 4"h x 8"d x 12"w
- Exposed face area: 1/3 sq. ft. (4" x 12")
- Weight: 32 lbs.
- Units per pallet: 96 Unitss
- Weight per pallet: 3,072 lbs.



0.W. LIMESTONE BLEND

0.W. BURGUNDY BLEND

O.W. CHESTNUT

0.W. IRONWOOD

O.W. STERLING SMOKE

0.W. ALABASTER

O.W. GRAYLING

OLD WORLD GLENSTONE

TOP: WALLS: OLD WORLD GLENSTONE – WALNUT BLEND ACCENT COURSE: OLD WORLD GLENSTONE – SLATE FIRE PIT: OLD WORLD FIRE PIT – WALNUT BLEND FIRE PIT CAP: OLD WORLD 4" RADIUS GLENSTONE

BOTTOM

WALL STONES: OLD WORLD GLENSTONE – IRONWOOD WALL ACCENT COURSE: GLENSTONE – SLATE



OLD WORLD GLENSTONE BULLNOSE

TOP: STEP COPING: OLD WORLD GLENSTONE BULLNOSE – WALNUT BLEND PAVERS: HOLLAND SERIES – WALNUT BLEND ACCENT PAVERS: OLD WORLD VINTAGE XLR – JET BLACK ACCENT PARENCI DE WORLD WINNEL ALT SE BOTTOM: WALLS: VERAZZO STONE – CAMEL STEP COPING: GLENSTONE BULLINOSE – CAMEL WALL ACCENT COURSE: GLENSTONE – SLATE PAVERS: HOLLAND SERIES – WALNUT BLEND ACCENT PAVERS: HOLLAND 4x8 – SLATE



0.W. WALNUT BLEND



0.W. LIMESTONE BLEND



0.W. CAMEL



0.W. SLATE



KEYSTONE VERAZZO STONE™

OUTDOOR KITCHEN WALL: VERAZZO STONE – CAMEL WALL ACCENT COURSE: VERAZZO STONE – CHESTNUT SITE WALL: HEWN STONE – WALNUT BLEND PAVERS: HOLLAND SERIES – WALNUT BLEND



WALLS: VERAZZO STONE – CAMEL CAPS: GLENSTONE – CAMEL FIRE PIT: VERAZZO STONE – CAMEL FIRE PIT: CAP: GLENSTONE BULLNOSE – CAMEL PIER ACCENT COURSE: GLENSTONE – SLATE PAVERS: HOLLAND SERIES – WALNUT BLEND ACCENT PAVERS: HOLLAND 4x8 – SLATE



KEYSTONE VERAZZO STONETM PIERS: VERAZZO STONE - WALNUT BLEND PIER ACCENT COURSE: GLENSTONE - SLATE PAVERS: HOLLAND SERIES - WALNUT BLEND



STANDARD COLORS



WALNUT BLEND



RUSTIC BLEND

ELITE COLOR



GRAPHITE BLEND



LIMESTONE BLEND





SLATE



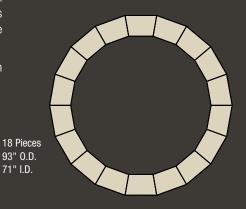
CAMEL

With unmatched strength and stability, Keystone Verazzo Stone™ has rugged good looks and aesthetic appeal. Each Keystone Verazzo Stone™ is angled on both sides providing different face lengths for a tight fitting, straight wall. Aligning units is also effortless due to the Keystone proven pin connection system. Each stone contains multiple pin positions allowing for a nearly vertical or offset wall.

Keystone Verazzo Stone[™] looks like a natural element in your yard because each unit is finished on two sides.

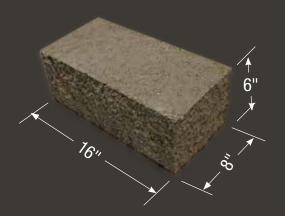
Size.....6"h x 16"/12"w x 10-1/2"d Exposed face area.....0.58 sq. ft. (avg.) Units per pallet45 units Weight per pallet......3,272 lbs. Pins.....2/block, 50/bag





VERAZZO RETURN CORNER

BELOW: VERAZZO STONE – CAMEL



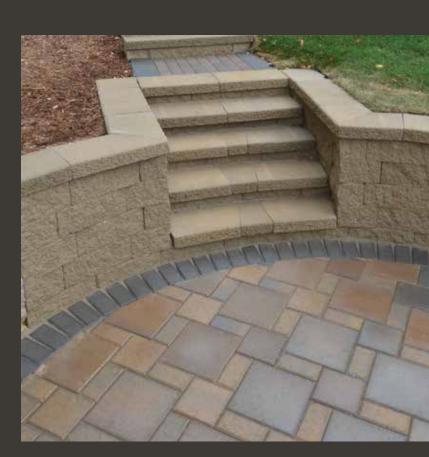
Verazzo Return Corner



Corner Construction



24" x 24" Pier Utilizing 4-Return Corners





KEYSTONE MURINO

TOP: WALLS: MURINO – GRAPHITE BLEND ACCENT WALL COURSE: MURINO – WALNUT BLEND SEAT WALL: GLENSTONE BULLNOSE – WALNUT BLEND CAPS: 3x24 SM00TH CAP – SLATE PAVERS: HOLLAND SERIES – WALNUT BLEND BOTTOM: Walls: Murino – Walnut Blend Shelf Course: Universal Cap – Chestnut Caps: 3x24 Smooth Cap – Chestnut





A LICENSED PRODUCT FROM KEYSTONE® RETAINING WALL SYSTEMS LLC PRODUCED BY FENDT BUILDER'S SUPPLY, INC.

ТΜ



LARGE UNIT

6"h x 16"/14"w x 10"d 58 lbs.



STANDARD COLORS

WALNUT BLEND

LIMESTONE BLEND



GRAPHITE BLEND

SMALL UNIT 6"h x 6"/4"w x 10"d 22 lbs.



2-PIECE SET - LARGE & SMALL UNIT **3-SIDED INTERLOCKING TEXTURED FINISH** MODULAR WITH STONEGATE SERIES NATURAL "HEWNSTONE" STYLE FACE UTILIZES KEYSTONE'S PROVEN PIN SYSTEM

> Set size | 6"h x 10"d x 20"w Exposed face area | 0.83 sq. ft. Weight/set | 80 lbs. Sets per pallet | 30 Weight per pallet | 2,470 lbs.

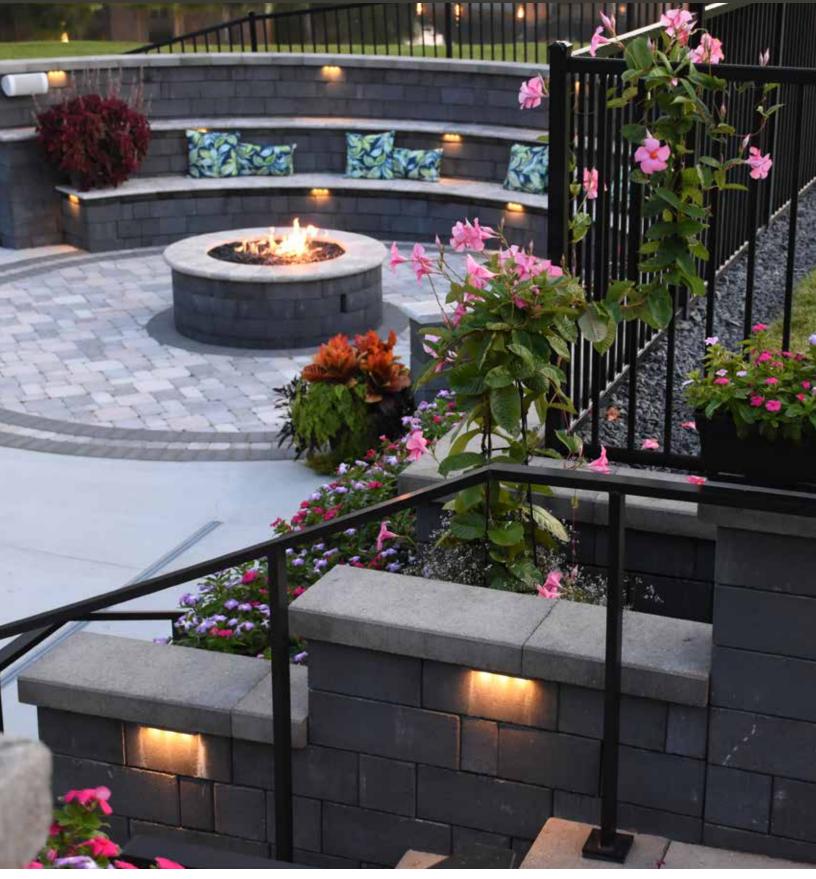


KEYSTONE STONEGATE

WALLS: STONEGATE – WALNUT BLEND CAPS: 3x24 CAP – SLATE FIREPLACE: STONEGATE – WALNUT BLEND



WALLS: STONEGATE – SLATE WALL: CAPS (foreground): 3x24 SMOOTH CAP – LIMESTONE BLEND PAVERS: OLD WORLD VINTAGE – POLAR ASH FIRE PIT: FIRE PIT BLOCK – SLATE



KEYSTONE STONEGATE

TOP: WALLS: STONEGATE – SLATE WALL CAPS & STEPS: 3x24 SMOOTH CAP – LIMESTONE BLEND

BOTTOM: WALLS: STONEGATE – WALNUT BLEND CAPS: 3x24 SMOOTH CAPS – WALNUT BLEND



KEYSTONE STONEGATE

WALLS: STONEGATE – SLATE WALL ACCENT COURSE: STONEGATE – LIMESTONE BLEND WALL CAPS: 3x24 SMOOTH CAP – LIMESTONE BLEND



RUSTIC BLEND



WALNUT BLEND





SLATE

GRAPHITE BLEND

1,

Set size6"h x 10"d x 32"w max. Exposed face area1.4 sq. ft. max. Weight/set137 lbs. Sets per pallet20 Weight per pallet2,788 lbs.



60 lbs. (27 kg) 6"h x 10"d x 16"/14"w (150mm x 250mm x 400mm/350mm)



40 lbs. (18 kg) 6"h x 10"d x 12"/10"w (150mm x 250mm x 300mm/250mm)

.



25 lbs. (11 kg) 6"h x 10"d x 6"/4"w (150mm x 250mm x 150mm/100mm)

KEYSTONE OLD WORLD STONEGATE

WALLS: OLD WORLD STONEGATE – WALNUT BLEND CAPS: 3x24 CAP – GREYSTONE



KEYSTONE OLD WORLD STONEGATE

WALLS: OLD WORLD STONEGATE - LIMESTONE BLEND ACCENT WALL COURSE: OLD WORLD STONEGATE - SLATE CAPS: 3x24 SMOOTH CAP - LIMESTONE BLEND





O.W. WALNUT BLEND











1,

Exposed face area1.4 sq. ft. max. Sets per pallet20 Weight per pallet2,788 lbs.

Set size6"h x 10"d x 32"w max.

Weight/set137 lbs.

60 lbs. (27 kg) 6"h x 10"d x 16"/14"w (150mm x 250mm x 400mm/350mm)

...



40 lbs. (18 kg) 6"h x 10"d x 12"/10"w (150mm x 250mm x 300mm/250mm)

•



25 lbs. (11 kg) 6"h x 10"d x 6"/4"w (150mm x 250mm x 150mm/100mm)

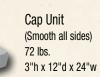
OLD WORLD STONEGATE - WALL STONES I 81

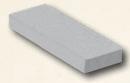
STONEGATE • CAPS & STEPS

CAPS

Cap Unit (One side textured) 72 lbs. 3"h x 12"d x 24"w

Stocked in all six Standard colors





Stocked in all Stonegate colors and Burgundy Blend

PINS

Stonegate Shouldered Pin 5-1/4" long 1/2" diameter 3/4" diameter at shoulder 100 pins/box 5 pins/set of Stonegate 1 box (100 pins) per pallet of Stonegate

COUNTRY CORNER



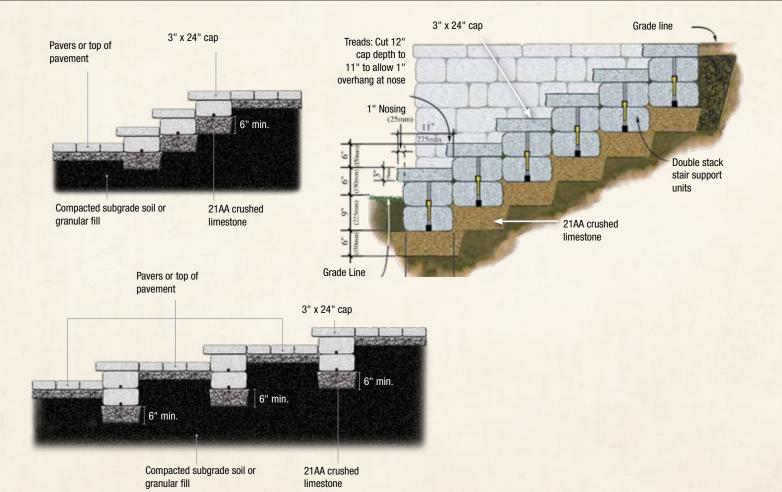
STEP DETAILS

The $3" \times 12" \times 12"$ Country Corner coping corner unit allows the user to make attractive and simple-to-build 90 degree corners when capping a wall using the $3" \times 12" \times 24"$ cap. It has two faces, either textured or smooth to match the 24" caps with one side textured or with all smooth sides. This eliminates the need to make difficult miter cuts and also allows the user to make attractive caps for the 20", 26", 30" and 38" Stonegate piers (See page 83).

Size	3"h x 12"d x 12"w
Exposed face area	1/4 sq. ft. (3" x 12")
Weight	36 lbs.
Units per pallet	96 units
Weight per pallet	3,504 lbs.
• • •	0,001100.

Face and Sides Textured

Smooth All Sides



82 I WALL STONES - STONEGATE CAPS & STEPS

STONEGATE • PIERS

PIER AND PIER CAP DETAILS

20" Pier



20" Pier, 1st and odd numbered courses



30" Pier



26" Pier, 1st and odd numbered courses



20" Pier, 2nd and even numbered courses



26" Pier, 2nd and even numbered courses

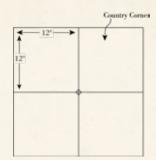
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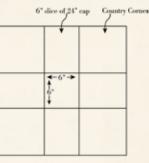
....

30" Pier, 2nd and even numbered courses

...



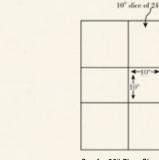
<u>Small Pier Cap:</u> Size: 24" square For 20" pier or center top cap of larger piers.



<u>Cap for 26" Pier:</u> Size: 30" square Note: Leave 6" square in center open for plantings or cover with 24" pier cap.

cap

Country Cornea



<u>Cap for 30" Pier:</u> Size: 34" square Note: Leave 10" square in center open for plantings or cover with 24" pier cap.

38" Pier

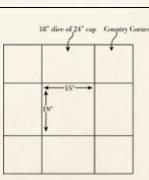


30" Pier, 1st and odd numbered courses

38" Pier, 1st and odd numbered courses



38" Pier, 2nd and even numbered courses

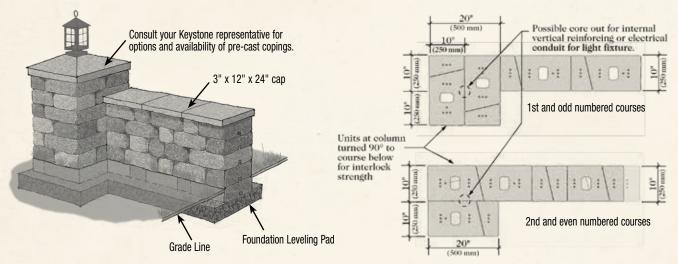


<u>Cap for 38" Pier:</u> Size: 42" square Note: Leave 18" square in center open for plantings or cover with 24" pier cap. (24" pier cap for center may need to be glued at the joints ahead of time and allowed to set up prior to installation.)

DESIGN DETAILS FREE-STANDING WALL APPLICATIONS

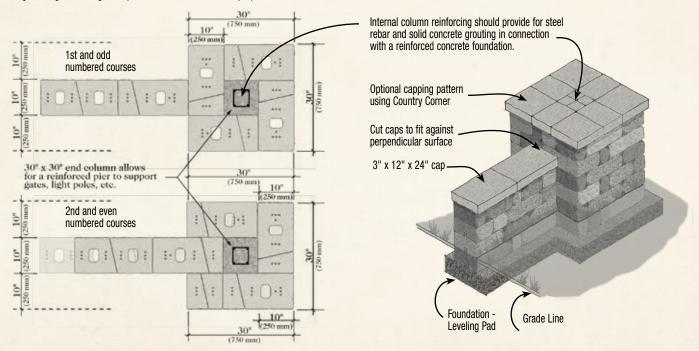
Column Corner

Similar to the "L" Return End wall detail, the Column Corner utilizes a 20" x 20" column geometry to develop an integrated pier at the end of a running wall. The detail offers visual aesthetic interest as well as provides strength at the termination end of the free-standing wall.



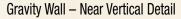
Wall End Column

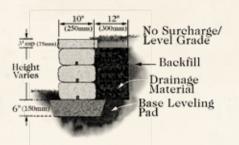
The Wall End column is a larger version of the "Column Corner" detail. The benefit of this design option is the development of internal reinforcement to provide for greater strength and height, along with a larger footprint dimension for aesthetic purposes.

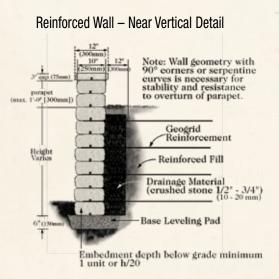


STONEGATE • DESIGN DETAILS

DESIGN CONSIDERATIONS



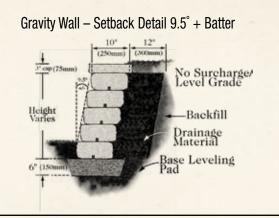




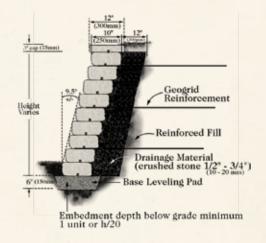
GRAVITY WALLS (maximum unreinforced wall height)				
Maximum	Near Ve	ertical	9.5	° +/- Batter
Height	Level	3H:1V	Level	3H:1V
SAND/GRAVEL	2'-0"	1'-6"	3'-0"	2'-6"
$PHI = 34^{\circ}$	(0.6m)	(0.45m)	(0.9m)	(0.75m)
SILTY SAND	1'-6"	1'-6"	2'-6"	2'-0"
$PHI = 34^{\circ}$	(0.45m)	(0.45m)	(0.75m)	(0.6m)
SILT/LEAN CLAY	1'-6"	1'-0"	2'-0"	1'-6"
$PHI = 26^{\circ}$	(0.45m)	(0.3m)	(0.6m)	(0.45m)

DESIGN NOTES

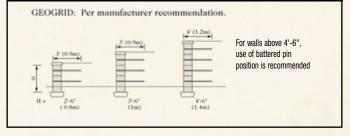
- \bullet Friction angle (PHI) for earth pressure calculations is min. 28° max. 32°
- Moist weight of all soil types is 120 lbs./ft.³ (19kN/m2)
- Sliding calculations use 6" (150mm) crushed stone leveling pad as compacted foundation material
- All backfill materials are compacted to 95% maximum density
- The term "vertical" implies a wall built to a near vertical alignment with a slight positive setback
- 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 these tables



Reinforced Wall – Setback Detail 9.5° + Batter



REINFORCED WALLS — Vertical



REINFORCED WALLS — Battered (9.5' +/- setback) GEOGRID: Per manufacturer recommendation. f'(1.2m) f'(1.2m)f'(1.2m)

Stonegate installation and design information reprinted by permission of Keystone Retaining Wall Systems, Inc.

WALL CAPS & STAIR TREADS

Inventoried Colors

12" x 12" COUNTRY CORNER CAP

- Camel
- Chestnut
- Limestone Blend
- Rustic Blend
- Slate
- Walnut Blend
- Whitestone

3" x 24" CAP SINGLE FACE SOFT SPLIT

- Camel
- Limestone Blend
- Rustic Blend
- Slate
- Walnut Blend

COPING STONE

- Limestone Blend
- Rustic Blend
- Slate
- Walnut Blend

12" x 12" COUNTRY CORNER CAP

3'' x 24'' SINGLE FACE SOFT SPLIT CAP



3" x 24" ALL SMOOTH CAP









- Walnut Blend - Limestone Blend
- Slate
- Camel





UNIVERSAL CAP

- Camel
- Chestnut
- Desert Brown
- Graphite Blend
- Grey
- Limestone Blend
- Rustic Blend
- Slate
- Walnut Blend

3'' x 24'' CAP ALL SMOOTH

- Camel
- Chestnut
- Limestone Blend
- Rustic Blend
- Slate
- Walnut Blend
- Whitestone

UNIVERSAL STAIR TREAD

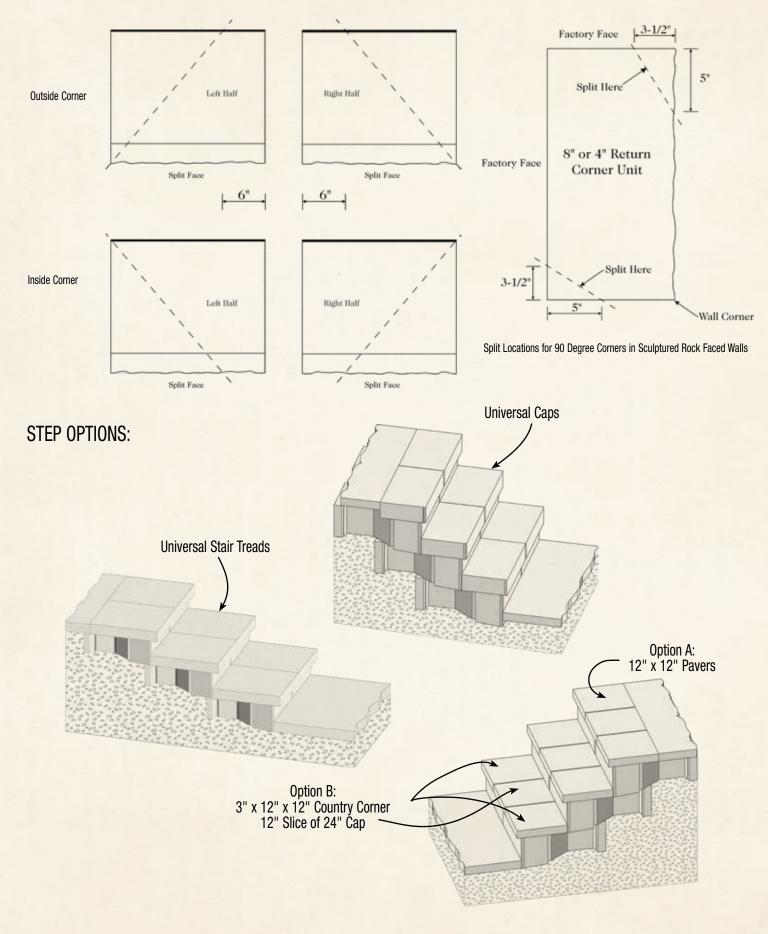
- Limestone Blend
- Walnut Blend

OLD WORLD **GLENSTONE BULLNOSE**

- Walnut Blend
- Limestone Blend
- Slate
- Camel

	12" x 12" Country Corner Cap	Universal Cap	3" x 24" Soft Split Cap	3" x 24" All Smooth Cap	Coping Stone	Stair Tread	Glenstone Bullnose
Size (inches)	3"h x 12"w x 12"d	3-1/2"h x 18"w x 12"d	3"h x 24"w x 12"d	3"h x 24"w x 12"d	2-3/8"h x 3-7/8"w x 12-7/8"d	3-1/2"h x 18"w x 20"d	4"h x 8"w x 12"d
Weight per unit (lbs.)	36	62	70.1	71.5	9.915	106	29.7
Units per pallet	96	56	48	48	117	28	96
Weight per pallet (lbs.)	3,456	3,472	3,365	3,432	1,160	2,968	2,858

Miter Cutting Universal Cap Units to Cap Inside and Outside 90° Corners



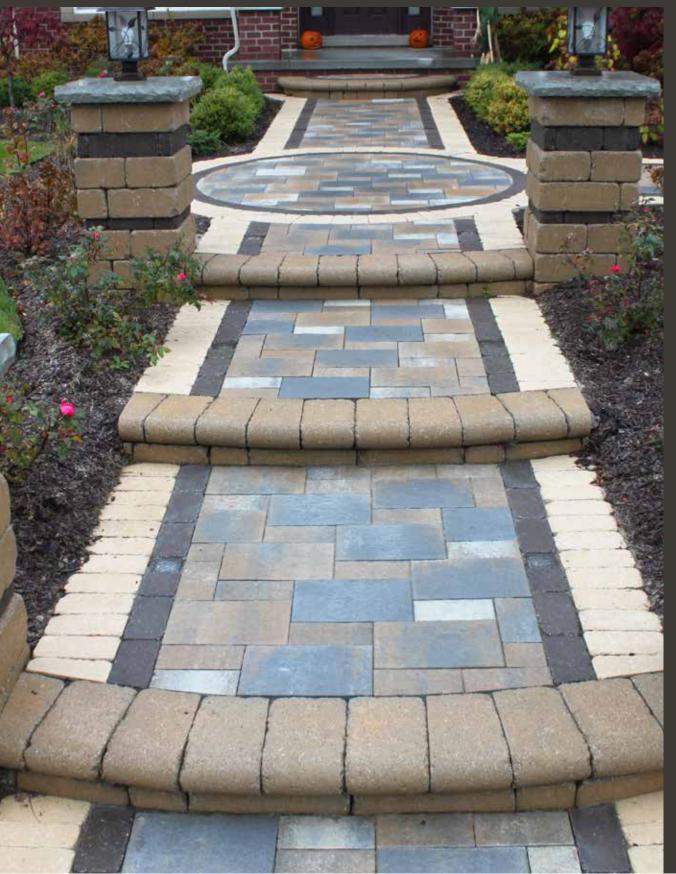
COPING STONE

POOL COPING: COPING STONE – WALNUT BLEND PAVERS: OLD WORLD VINTAGE – SEASHELL



OLD WORLD GLENSTONE BULLNOSE

STEP COPING: OLD WORLD GLENSTONE BULLNOSE – CAMEL PAVERS: HARBOR STONE – IRONWOOD ACCENT PAVERS: OLD WORLD SINTAGE XLR – COFFEE & SUMMER WHEAT WALLS: OLD WORLD STONEGATE – CAMEL WALL ACCENT COURSE: OLD WORLD VINTAGE XLR – COFFEE



STANDARD COLORS



0.W. WALNUT BLEND





0.W. SLATE



0.W. LIMESTONE BLEND

FIRE PIT BLOCK

FIRE PIT: FIRE PIT BLOCK – SLATE FIRE PIT CAP: PRECAST UNIT SEAT WALL: STONEGATE – SLATE SEAT WALL: CAPS: PRECAST UNIT WALLS: STONEGATE – SLATE WALL CAPS: 3x24 SMOOTH CAP – LIMESTONE BLEND



OLD WORLD FIRE PIT BLOCK

FIRE PIT: OLD WORLD FIRE PIT BLOCK – LIMESTONE BLEND FIRE PIT CAP: OLD WORLD 4" RADIUS GLENSTONE – LIMESTONE BLEND WALLS: OLD WORLD STONEGATE – LIMESTONE BLEND WALL ACCENT COURSE: OLD WORLD VINTAGE XLR – BURGUNDY BLEND PAVERS: OLD WORLD VINTAGE – LIMESTONE BLEND ACCENT PAVERS: OLD WORLD VINTAGE XLR – BURGUNDY BLEND



The installation of an optional metal ring may extend the life of the Fire Pit blocks.

Old World Fire Pit Block



Size: 5-1/2"h x 6"d x 15-1/2"/12-1/2"w

- Makes perfect 4' diameter circle (I.D.)
- No cutting required 12 units per circle
 Also ideal for tree rings, wishing wells, etc.
 Stock colors: Walnut, Limestone, Slate

- 75 Units/pallet
- 38.8 lbs./unit
- 2,910 lbs./pallet

Old World 4" Radius Glenstone



Size: 4"h x 8"d x 12-1/4"/9-1/8"w

- Great as a cap for Fire Pit Block
- Use with our Glenstone wall to turn radius • No cutting required – 16 units per circle
- Stock colors: Walnut, Rustic, Limestone, Slate
- 96 Units/pallet
- 27.55 lbs./unit
- 2,645 lbs./pallet





O.W. WALNUT BLEND





KEYSTONE HEWNSTONE

TOP: Walls: Compac Hewnstone – Camel Caps: 3x24 Cap – Walnut Blend

BOTTOM: WALLS: COMPAC HEWNSTONE – CAMEL CAPS: UNIVERSAL CAP – CAMEL PAVERS: HOLLAND SERIES – WALNUT BLEND



WALLS: COMPAC HEWNSTONE – WALNUT BLEND CAPS & STEP COPING: 3x24 CAP – WALNUT BLEND PAVERS: OLD WORLD VINTAGE – WALNUT BLEND ACCENT PAVERS: OLD WORLD VINTAGE XLR – SUMMER WHEAT



KEYSTONE HEWNSTONE



TOP: WALLS: COMPAC HEWNSTONE – WALNUT BLEND CAPS: 3x24 CAP – WALNUT BLEND

BOTTOM: PIER: COMPAC HEWNSTONE 90-DEGREE RETURN CORNER – SLATE





8" x 18" x 9" Hewnstone Return Corner

KEYSTONE COMPAC HEWNSTONE UNIT:

Size	8"h x 18"w x 11"(
Exposed face area	1 sq. ft. (8" x 18")
Weight	86 lbs.
Units per pallet	36 units
Weight per pallet	3,096 lbs.



WALNUT BLEND



LIMESTONE BLEND





KEYSTONE STRAIGHT SPLIT

Keystone Straight Split wall stones are clean cut and classic for those seeking a more traditional wall presentation. Keystone Straight Split wall stones are available in a wide variety of sizes and colors. Imagine the creative possibilities! Perfect for border walls, tree rings, terraces, corners, curves, steps and stairs.







8" COMPAC III STRAIGHT SPLIT



8" STANDARD STRAIGHT SPLIT



Size	4"h x 18"w x 11"d
Exposed face area	1/2 sq. ft. (4" x 18")
Weight	43 lbs.
Units per pallet	63 units
Weight per pallet	2,709 lbs.

Size	8"h x 18"w x 11"d
Exposed face area	1 sq. ft. (8" x 18")
Weight	79 lbs.
Units per pallet	36 units
Weight per pallet	2,844 lbs.

Size	8"h x 18"w x 22"d
Exposed face area	1 sq. ft. (8" x 18")
Weight	128 lbs.
Units per pallet	20 units
Weight per pallet	2,560 lbs.

FIBERGLASS PIN

5-1/4" long 1/2" diameter 100 pins/box Two pins needed for each Mini, Compac and Standard



ABOVE: WALLS: 8" KEYSTONE STRAIGHT SPLIT – CUSTOM COLOR



UPPER WALL: VERAZZO – WALNUT BLEND UPPER WALL CAP: 3x24 – CAMEL LOWER WALL: COMPAC STRAIGHT SPLIT – WALNUT BLEND LOWER WALL CAP: UNIVERSAL CAP – WALNUT BLEND

90 DEGREE RETURN CORNER UNITS

4" 90° CORNER

> 4" 90° CORNER – SPECIAL ORDER ONLY

8" 90° CORNER



Size	4"h x 18"w x 9"d
Exposed face area	1/2 sq. ft. (4" x 18")
Weight	43 lbs.
Units per pallet	60 units
Weight per pallet	2,580 lbs.

Size	8"h x 18"w x 9"d
Exposed face area	1 sq. ft. (8" x 18")
Weight	86 lbs.
Units per pallet	30 units
Weight per pallet	2,580 lbs.









WALNUT BLEND



LIMESTONE BLEND



ELITE COLORS



GRAPHITE BLEND



KEYSTONE SCULPTURED SPLIT

NEXT PAGE TOP: 8" KEYSTONE SCULPTURED SPLIT – RUSTIC BLEND (NON-INVENTORIED COLOR)

NEXT PAGE BOTTOM: 8" KEYSTONE SCULPTURED SPLIT – GRAY

Like Keystone Straight Split, Keystone Sculptured Split wall stones offer a traditional and classic presentation. But you can add a creative flair with Keystone Sculptured Split wall stones. Available in a variety of colors and sculpted faces, these wall stones offer unlimited design possibilities. Turn any landscaping project — large or small into a work of art!



- RIGHT:
 8" KEYSTONE SCULPTURED FACE DESERT BROWN
 BELOW:
- 8" KEYSTONE SCULPTURED SPLIT DESERT BROWN



8" COMPAC SCULPTURED SPLIT



8" STANDARD SCULPTURED SPLIT



8" 90° CORNER



	•
Exposed face area	1 sq. ft. (8" x 18")
Weight	86 lbs.
Units per pallet	36 units
Weight per pallet	3,096 lbs.

Size	8"h x 18"w x 22"d
Exposed face area	1 sq. ft. (8" x 18")
Weight	128 lbs.
Units per pallet	20 units
Weight per pallet	2,560 lbs.

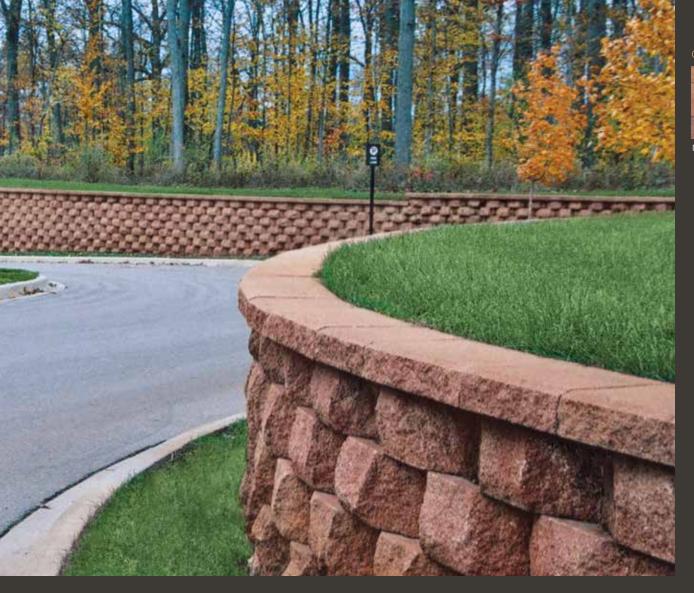
Size	8"h x 18"w x 9"d
Exposed face area	1 sq. ft. (8" x 18")
Weight	86 lbs.
Units per pallet	30 units
Weight per pallet	2,580 lbs.

FIBERGLASS PIN



5-1/4" long 1/2" diameter 100 pins/box Two pins needed for each Mini, Compac and Standard

(See splitting detail on page 87)







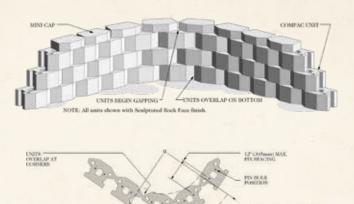
DESERT BROWN



CURVES AND CORNERS

CONCAVE CURVES INSTALLATION PROCEDURES:

- Follow standard installation instructions for preparation of the subgrade and the leveling pad.
- 2. Overlap the corners of the base course. The amount of overlap will vary based on the size of the curve. Gapping will occur as the units batter or move away from the point of radius. The rate of gapping is controlled by the severity of the batter (i.e., a 1:8 batter will gap more quickly than a 1:128 batter). The distance between the pin holes of adjacent first course units should not exceed 12" on center. For best visual appearance, a maximum 1/2" to 3/4" gap is recommended.
- 3. Follow standard installation instructions for backfilling and placement of additional courses.
- If geogrid reinforcement is used, refer to manufacturer's recommendations for proper placement of this material along concave curves and corners.
- 5. Depending on wall height, radius and batter selection, some gapping between units may occur. If gaps exceed acceptable limits, redrill new pin holes as needed, using a 5/8" masonry bit, and realign units to close the gaps.

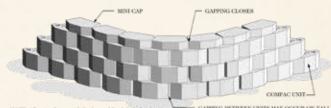


CONVEX CURVES INSTALLATION PROCEDURES

- 1. Follow standard installation instructions for preparation of subgrade and leveling pad.
- 2. Place base course units with a small gap between adjacent units. This gap will close with the placement of each additional course of Keystone units as the units batter and converge toward the point of radius. The rate of closure is controlled by the severity of the batter (i.e., a 1:8 batter will close more quickly than a 1:128 batter). A maximum of 1/2"-3/4" gap is recommended for best visual appearance. To achieve this, the distance between the pin holes on adjacent first course units should not exceed 12" on center.
- 3. Follow standard installation instructions for backfilling and placement of additional courses.
- If geogrid reinforcement is used, refer to manufacturer's recommendations for proper placement of this material along convex curves.
- Depending on wall height, radius and batter selection, some binding between units may occur. If this prohibits proper placement of additional units, try one of the following suggestions:
 - Trim unit corners using either a masonry chisel or concrete saw.

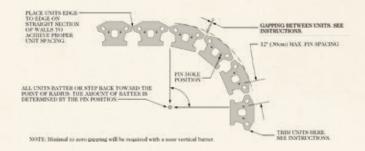
90° OUTSIDE CORNER

- Push units back and realign. Redrill pin holes as needed using a 5/8" masonry bit.

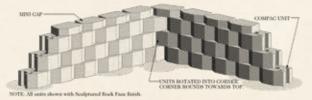


NOTE: All units shown with Sculptured Rock Face firth

GAPPING BETWEEN UNITS MAY OCCUR ON TALL WALLS WITH A TIGHT RADIUS.



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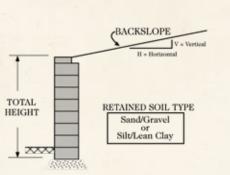






BASIC ENGINEERING

GRAVITY WALL DESIGN CHARTS



CTANDADD UNITC

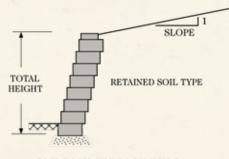
STANDARD UNITS								
MAXIMUM GRAVITY WALL HEIGHT CHART								
Near Vertical Wall	Backslope							
Soil Type	Level	4H:1V	3H:1V	2H:1V				
Sand/Gravel	5.2' (1.6m)	4.7' (1.5m)	4.6' (1.4m)	4.1' (1.2m)				
Silty Sand	4.7' (1.4m)	4.3' (1.3m)	4.1' (1.2m)	3.6' (1.1m)				
Silt/Lean Clay	4.4' (1.3m)	3.9' (1.2m)	3.7' (1.1m)	2.9' (0.9m)				

COMPAC UNITS

MAXIMUM GRAVITY WALL HEIGHT CHART							
Near Vertical Wall	Backslope						
Soil Type	Level	4H:1V	3H:1V	2H:1V			
Sand/Gravel	2.9' (0.9m)	2.3' (0.71m)	2.3' (0.71m)	2.3' (0.71m)			
Silty Sand	2.3' (0.71m)	2.3' (0.71m)	1.7' (0.51m)	1.7' (0.51m)			
Silt/Lean Clay	2.3' (0.71m)	1.7' (0.51m)	1.7' (0.51m)	1.0' (0.30m)			

NEAR VERTICAL WALL

ONE INCH SETBACK WALL



ONE INCH SETBACK WALL (1" min. setback per unit)

STANDARD UNITS

MAXIMUM GRAVITY WALL HEIGHT CHART							
Near Vertical Wall	Backslope						
Soil Type	Level	4H:1V	3H:1V	2H:1V			
Sand/Gravel	6.8' (2.1m)	6.2' (1.9m)	5.9' (1.8m)	5.3' (1.6m)			
Silty Sand	6.1' (1.9m)	5.5' (1.7m)	5.2' (1.6m)	4.4' (1.3m)			
Silt/Lean Clay	5.3' (1.6m)	4.5' (1.4m)	4.1' (1.2m)	3.2' (1.0m)			

COMPAC UNITS (1" SETBACK OPTION AVAILABLE IN STRAIGHT FACE AND HEWNSTONE UNITS ONLY)

MAXIMUM GRAVITY WALL HEIGHT CHART							
Near Vertical Wall	Backslope						
Soil Type	Level	4H:1V	3H:1V	2H:1V			
Sand/Gravel	3.67' (1.20m)	3.67' (1.20m)	3.00' (0.91m)	3.00' (0.91m)			
Silty Sand	3.00' (0.91m)	3.00' (0.91m)	3.00' (0.91m)	2.33' (0.71m)			
Silt/Lean Clay	3.00' (0.91m)	2.33' (0.71m)	2.33' (0.71m)	<1.00' (0.30m)			

GEOGRID CHART NOTES

The Keystone geogrid charts are graphically presented to show the proper orientation and lengths of geogrids used with Standard and Compac Units at the near vertical batter.

Heights were set in two-block increments beginning at 4.3' and ending at 11'. Engineering judgement should be used when interpolating between heights. Heights under the 4.3' height shown may require geogrid reinforcement depending upon the units used, soil types and surcharge loadings.

Soil ranges were selected to approximate good, medium and poor soil conditions to concisely cover the typical design range. Wall height is the total height of the wall from leveling pad to the top of the wall. The charts assume the use of a lower strength geogrid, and can be used safely with the following materials:

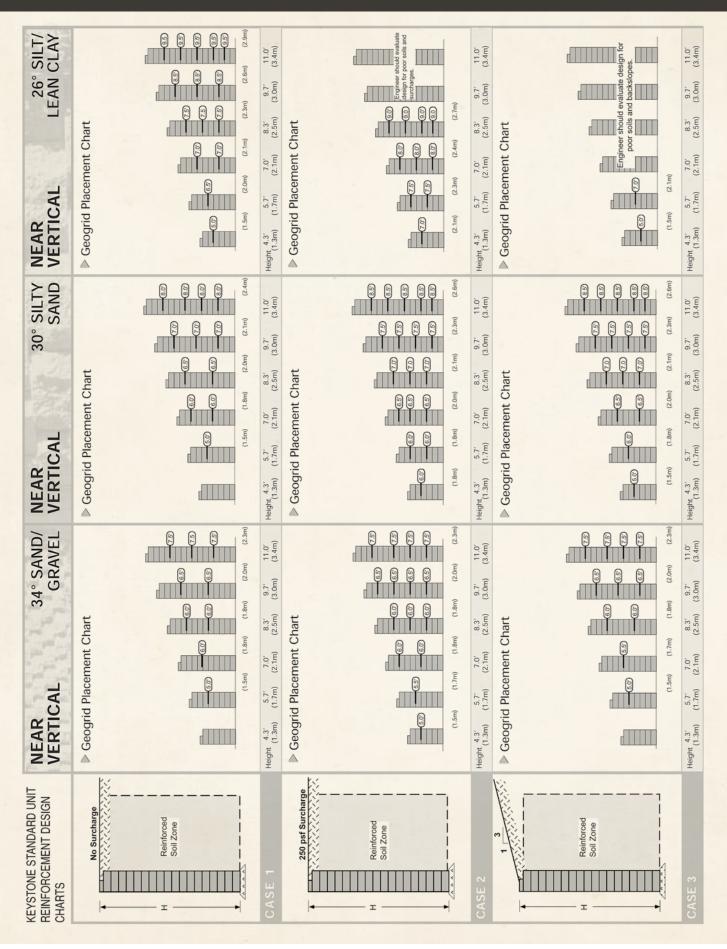
Synteen SF35 Stratagrid 200 by Strata Systems Mirafi 3XT

All geogrid lengths shown are the actual lengths of geogrids required as measured from the connection points to the end of the geogrid.

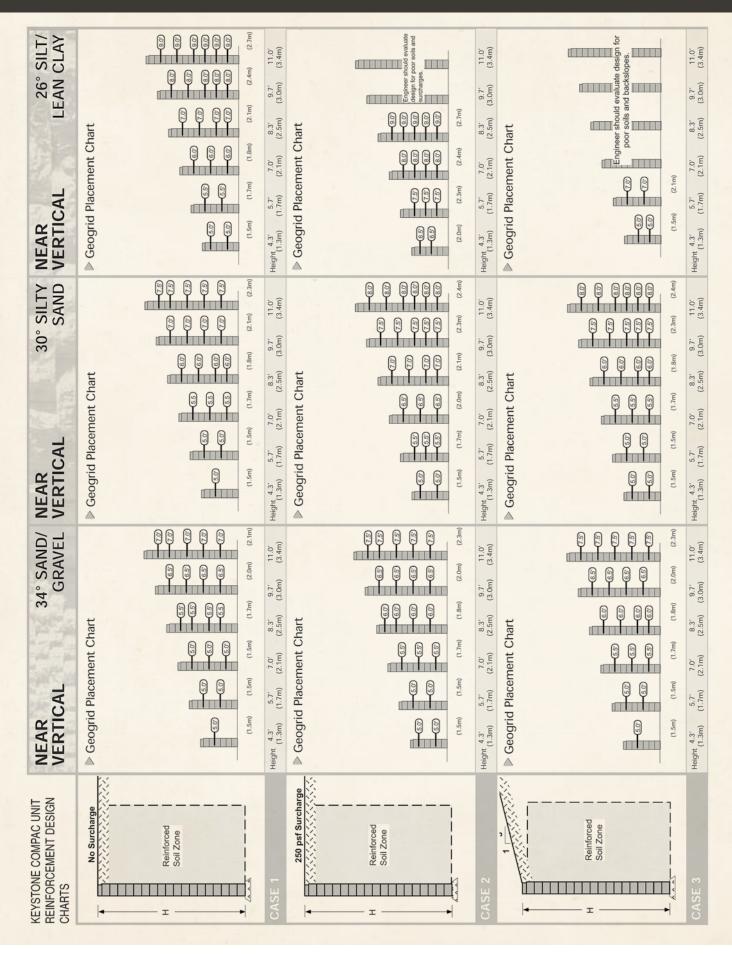
The design charts assume that the walls are constructed in accordance with Keystone specifications and good construction practice. All soils must be compacted in 8" lifts to 95% Standard Proctor density as determined by laboratory testing.

The information contained in the design charts is for preliminary design use only. A qualified professional should be consulted for final design assistance. Keystone accepts no liability for the improper use of these charts.

DESIGN CHARTS FOR KEYSTONE STANDARD

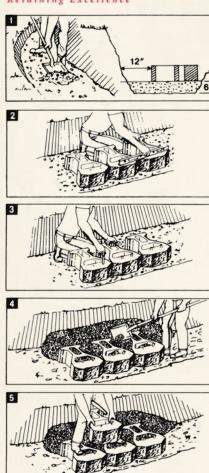


DESIGN CHARTS FOR KEYSTONE COMPAC

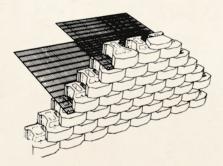


BASIC PRODUCT INSTALLATION









The Keystone Retaining Wall System was developed with simplicity of construction in mind. The following steps will guide you from start to finish.

STEP 1: PREPARATION OF BASE LEVELING PAD

Excavate a shallow trench to the designed length and width dimensions for your Keystone wall. Provide 12" behind the Keystone unit to allow for a granular backfill drainage zone. Keystone units should be placed on a 6" leveling pad of compacted well draining fill (i.e., sand, 1/2" to 3/4" crushed stone or gravel) at 95% Standard Proctor compaction or equal. Provide additional trench depth for below grade placement of Keystone units on a ratio of 1" below grade for each 8" of wall height above grade.

NOTE: When constructing walls less than 3' high, Keystone units can be placed on firm, undisturbed, inorganic soils. Recommended 12" drainage zone may vary due to site, soil or engineering requirements.

■ STEP 2: INSTALLING THE BASE COURSE

Install the first course of Keystone units side by side over the prepared base. Level each unit side to side and front to back. Place the units such that the kidney-shaped void is on the bottom surface. Line up pins or back edge of the unit for straight wall alignment. Units should touch side point to side point as diagrammed.

■ STEP 3: INSTALLING THE INTERLOCKING PINS

Place the reinforced fiberglass pins into the paired holes in each Keystone unit. Provide pins of correct length for appropriate unit size. Once in place, the pins will allow an automatic setback when installing additional courses as per STEP 5.

■ STEP 4: INSTALLING BACKFILL AND COMPACTION

Fill all voids in and between Keystone units and behind units 12". This fill should consist of 1/2" to 3/4" crushed stone or clean, well-draining granular fill. This allows for water drainage and compacts easily. Compact to eliminate potential settlement. Backfill behind gravel drainage zone using existing soils. (NOTE: Heavy clays or organic soils are not recommended due to water holding properties.) Compact to 95% Standard Proctor. Backfill in 8" lifts on a course basis. **NOTE:** *Only lightweight walk-behind mechanical compaction equipment should sweep the units to remove small pebbles, debris, etc., so the units rest evenly upon one another. Backfill and compact at every 8" course.*

STEP 5: INSTALLING ADDITIONAL COURSES

Place the next course of Keystone units over the positioned fiberglass pins so they are centered on and will bridge two units below in a running bond pattern. Pins should fit into kidney-shaped recesses on bottom of units. Pull the Keystone module toward the face of the wall until the module makes full contact with both pins. Repeat STEPS 3, 4, and 5.

STEP 6: INSTALLING KEYSTONE CAPS

Use Keystone cap units to complete your wall. Place the Keystone cap over the projecting pins on the unit below. Pull forward to the automatic set back position. Backfill and compact to finish grade. **NOTE:** In areas of high public accessibility and vandalism, we recommend construction adhesive or epoxy cement be used around the perimeter underside of the cap prior to unit placement.

The above installation guidelines apply to all Keystone unit sizes. These installation procedures do not take into account geological variations in site and soil conditions and, therefore, may require engineering consideration and detail. The final design and construction of a wall is the responsibility of the owner, not Fendt Builder's Supply, Inc., or Keystone Wall Systems, Inc.

GEOGRID INSTALLATION (PATENTED PROCEDURES)

For taller, more critical walls where geogrid is required to resist greater lateral earth pressures, use the following steps for installation:

STEP 1: Follow steps 1 through 4 of BASIC PRODUCT INSTALLATION.

STEP 2: Excavate the reinforced soil area to the maximum embedment length.

STEP 3: Cut sections of geogrid off roll to the specified length. Place geogrid in proper orientation (i.e., roll out from wall toward embankment). Check manufacturer's criteria for biaxial or uniaxial geogrids.

STEP 4: Hook geogrid over Keystone fiberglass pins, assuring a secure connection between unit and geogrid.

STEP 5: To pretension geogrid, pull the pinned geogrid taut to eliminate loose folds. Stake or secure back edge of the geogrid prior to and during backfill and compaction.

STEP 6: Install the next course of Keystone retaining wall units.

STEP 7: Proceed to place compacted backfill over geogrid in 8" lifts. Provide minimum 6" soil coverage prior to driving equipment over grid. Avoid tracked or wheeled vehicles directly on grid, or turning on grid.

STEP 8: Continue steps 3 through 7 until the retaining wall is complete.

FENDT LANDSCAPE WALL COLORS

Fendt offers a wide variety of colors and geometric shapes to meet your specific requirements. Don't see what you need? Fendt can custom manufacture any of the shapes shown, in any color your imagination desires. Your Fendt representative can also discuss Fendt's custom color and texture matching technology. Just bring us a brick or a portion of an existing retaining wall and we'll match the color and texture to add the perfect personalized finishing touch to any commercial or residential job.

GARDEN WALL COLORS





LIMESTONE BLEND

WALNUT BLEND



GOLDENROD

SLATE



RUSTIC BLEND







DESERT BROWN







RED







GRAY





GRAPHITE (ELITE)

STONEGATE & OLD WORLD STONEGATE COLORS



WALNUT BLEND

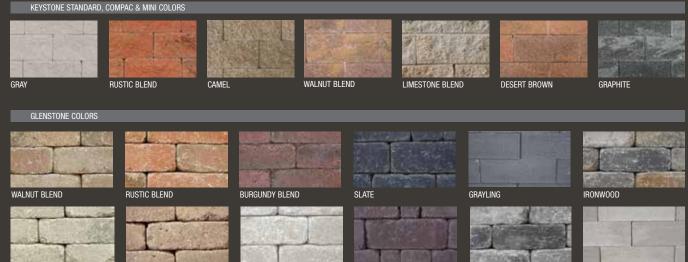


RUSTIC BLEND

GRAPHITE



CAMEL



LIMESTONE BLEND

CAMEL

GREYSTONE



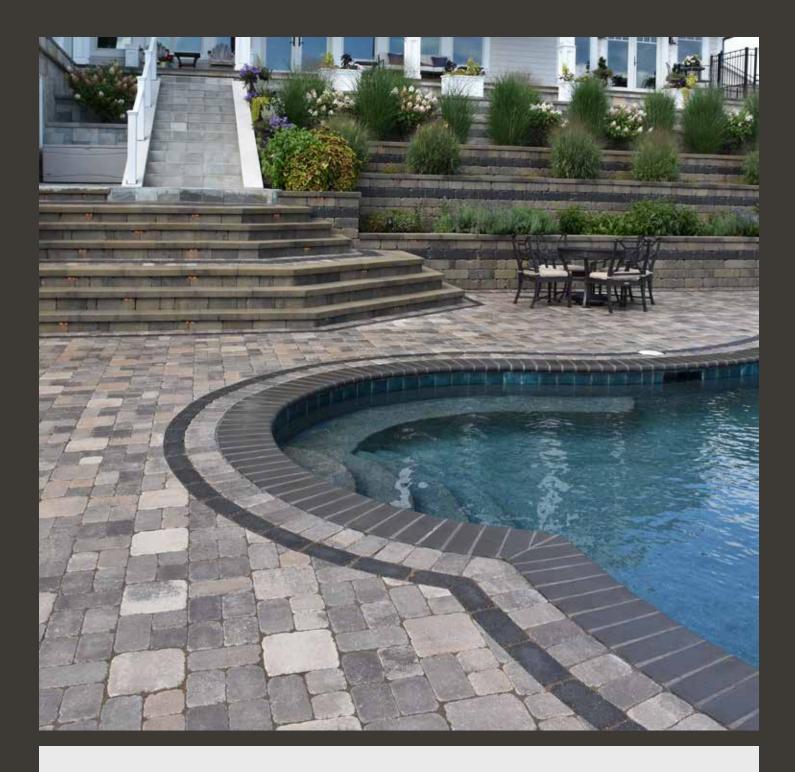
STERLING SMOKE



PAVER & WALL STONE REFERENCE GUIDE

		Units	Sq. Ft.	Units	Weight	Weight	Sq. Ft.
INVENTORIED PAVERS	Description	Per Sq. Ft.	Per Cube	Per Cube	Per Sq. Ft.	Per Cube	Per Strap
Holland 4" x 8"	2-3/8" Thick	4.5	108	486	28	3,024	18
Holland 8" x 8"	2-3/8" Thick	2.25	96	216	28	2,688	16
Holland 12" x 12"	2-3/8" Thick	1	72	72	28	2,016	18
Harbor Stone & Bay Stone							
Mega Large Rectangle	9-1/2" x 14-1/4" x 2-3/8"	1.06	90	96	28	2,688	30
Large Square	9-1/2" x 9-1/2" x 2-3/8"	1.6	97	160	28	2,716	19.4
Extra Large Rectangle	9-1/2" x 4-3/4" x 2-3/8"	3.1	90	280	28	2,509	17.92
Symetry*	2-3/8" Thick	3.4	84	288	28	2,352	21
6" x 6" (Use With Symetry)	2-3/8" Thick	4.1	92	378	28	2,576	13.14
Vintage Series - Circle Cube	4-3/4" x 4-3/4" x 2-3/8"	6.3	8.85	56	28		
Square Large Circle	4-3/4 x 4-3/4 x 2-3/8 4-11/16" x 4-5/16" x 2-3/8	8.3	14.45	120	28		_
Small Circle	4-11/16" x 4-5/16" x 2-3/8"	8.7	14.45	120	28	_	_
Half Stone	4-3/4" x 3-5/8" x 2-3/8"	8.4	10.0	84	28		
Center Stone	4-3/4" x 3-5/8" x 2-3/8"	9	0.4	4	28	_	
Totals For Cube	10,1 × 0 0,0 × 2 0,0		35.5	280	20	994	
Vintage Series -							
Square & Small Rectangle Cube Square	4-3/4" x 4-3/4" x 2-3/8"	6.3	68.6	432	28	_	
Small Rectangle	4-3/4" x 2-7/16" x 2-3/8"	12.6	11.4	144	28	_	_
Totals For Cube	10/1 /27/10 /20/0	12.0	80	576	20	2,240	
Vintage Large Rectangle Cube	7-1/8" x 4-3/4" x 2-3/8"	4.2	80	336	28		13.33
Old World Holland	2-3/8" Thick	4.5	108	486	28	3,024	
Old World Vintage	2-3/8" Thick	_	80 (Square Cube)	504	28	2,240	_
	2-3/8" Thick	_	80 (Lg. Rectangle Cube)	336	28	2,240	
	2-3/8" Thick		90 (XL Rectangle Cube)	280	28	2,509	_
	2-3/8" Thick		91 (DL Rectangle Cube)	200	28	2,548	_
	2-3/8" Thick	_	97 (Lg. Square Cube)	160	28	2,716	—
Old World Vintage Circle	2-3/8" Thick	_	35.5 (Crate)	—	28	994	
SPECIAL ORDER PAVERS							
Arrowhead™	2-3/8" Thick	4.8	78.75	378	28	2,205	11.25
Euro Stone (Use With Arrowhead)	2-3/8" Thick	3.7	102	378	28	2,856	14.57
Carousel Series - Circle Cube							
Square	4-1/2" x 4-1/2" x 2-3/4"	7.11	27.84	198	33	_	—
Small Rectangle	4-1/2" x 2-1/4" x 2-3/4"	14.12	.84	12	33	_	_
Large Circle	4-1/2" x 4-1/2" x 2-3/4"	8.3	23.10	192	33		
Small Circle Totals For Cube	3-3/8" x 4-1/2" x 2-3/4"	11.43	1.56	18	33	1 700	
Carousel Series -			53.34	420		1,760	
Square & Small Rectangle Cube							
Square	4-1/2" x 4-1/2" x 2-3/4"	7.11	53.16	378	33	_	
Small Rectangle	4-1/2" x 2-1/4" x 2-3/4"	14.12	3.84	54	33	_	_
Totals For Cube			57			1,881	
Carousel Series - Large Rectangle Cube							
Large Rectangle	4-1/2" x 6-3/4" x 2-3/4"	4.8	80	384	33		13.33
Cobblestone	2-3/8" Thick	3.5	103	360	28	2,884	20.6
Holland 4" x 4"	2-3/8" Thick	4.5	108	486	28	3,024	18
Holland 8" x 8"	3-1/8" Thick	2.25	74.67	168	37	2,763	—
Holland 4" x 8"	3-1/8" Thick	4.5	84	378	37	3,108	16
Old World Holland 8" x 8"	3-1/8" Thick	2.25	74.67	168	37	2,763	_
Old World Holland 4" x 8"	3-1/8" Thick	4.5	84	378	37	3,108	—
Old World Arrowhead Old World Random	2-3/8" Thick	4.8	78.75	376	28	2,205	_
Old Style Symetry	2-3/8" Thick 2-3/8" Thick	3.1	96 93	288 288	28 28	2,407 2,604	23.25
(Use In Combination With Euro Stone)	2-3/0 THICK	5.1	33	200	20	2,004	23.23
ENVIRONMENTAL PRODUCTS							
Eco-Brick	3-1/8" Thick	3.68	76.3	_	—	2,592	—
Eco-Classic/O.W. Eco-Classic	3-1/8" Thick	3.68	76.3	_	—	2,719	—
Geolink	4"h x 12"w x 16"l	1.12	32	36	36.6	1,469	_
Monoslab [®] Grass Paver	4-1/2"h x 16"w x 24"l	0.38	95.76	36	31.65	3,031	—

	Description	Units Per Sq. Ft.		Sq. Ft. Per Cube	Units Per Cube	Weight Per Sq. Ft.	Weight Per Cube	Sq. Ft. Per Strap	
SPECIAL ORDER PAVERS (Continued)	2000.10.00							. or outup	
Symetry [®]	3-1/8" Thick	3.4		65	224	37	2,405	18	
6" x 6"	3-1/8" Thick	4.1		71.4	294	37	2,642	18	
(Use In Combination With Symetry)									
Durastone	2-3/8" Thick	3.6		100	360	28	2,800	20	
	3-1/8" Thick	3.6		78	280	37	2,886	_	
Omnistone	2-3/8" Thick	3.5		103	360	28	2,884	20.6	
Honeycomb	2-3/8" Thick	3.1		87	270	28	2,436	14.5	
Plazastone	2-3/8" Thick	2.73		89	243	28	2,492	17.8	
Vintage Extra Large Rectangle Cube	9-1/2" x 4-3/4" x 2-3/8"	3.1		90	280	28	2,509	17.92	
Vintage Double Large Rectangle Cube	7-1/8" x 9-1/2" x 2-3/8"	2.2		91	200	28	2,548	_	
Vintage Large Square Cube	9-1/2" x 9-1/2" x 2-3/8"	1.6		97	160	28	2,716	_	
	,,, -						_,		
			_	Weight	Units Per	Weight Pe		ear Foot	
INVENTORIED WALL STONES	Size	Exposed Face		(lbs.)	Cube	Cube (lbs.		verage	
Garden Wall	4"h x 12"w x 8"d	1/3 Sq. Ft. (4" x		25	96	2,352		1 l.f.	
Glenstone/O.W. Glenstone	4"h x 12"w x 8"d	1/3 Sq. Ft. (4" x		32	96	3,072		_	
Old World 4" Radius Glenstone	4"h x 12-1/4"/9-1/8"w x 8"d	1/3 Sq. Ft. (4" x		28	96	2,645		—	
Glenstone/O.W. Glenstone Bullnose	4"h x 8"w x 12"d	0.22 Sq. Ft. (4"	x 8")	29.7	96	2,858	0.	67 l.f.	
Murino		10.0000			00.0	o		10111	
6" Large Unit 6" Small Unit	6"h x 10"d x 16"/14"w	1 Set = 0.83 Sq. F	t. Max.	80 per set	30 Sets/Cube	2,478	1 Set =	1.8 l.f. Max.	
	6"h x 10"d x 6"/4"w								
Stonegate/O.W. Stonegate 6" Large Unit	6"b v 10"d v 10" /1 4"	10+ 140- 5	May	66	20 Sets/Cube	2 0 2 0	1.0-+	2.5 l.f. Max.	
6 Large Unit 6" Medium Unit	6"h x 10"d x 16"/14"w 6"h x 10"d x 12"/10"w	1 Set = 1.4 Sq. Ft	t. Iviax.	66 47	20 Sets/Cube	2,928	1 Set =	2.5 I.T. IVIAX.	
6" Small Unit	6"h x 10"d x 6"/4"w			23					
Verazzo Stone	6"h x 10-1/2"d x 16"/12"w	1 Unit = 0.58 Sq. Ft. Avg.		73	45	3,272	1 Unit =	1 Unit = 1.16 l.f. Avg.	
Verazzo Return Corner	6"h x 8"d x 16"w	0.67 Sq. Ft.		62.8	48	3,015		1.33 l.f.	
Fire Pit Block/O.W. Fire Pit Block	5-1/2"h x 6"d x 15-1/2"/12-1/2"w	0.07 64.11	·	39	75	2,910			
Sculptured Split Face Units	0 1/211X 0 0 X 10 1/2/12 1/2 W			00	70	2,010			
Compac	8"h x 18"w x 11"d	1 Sq. Ft. (8" x	18")	78	36	2,808	1	1.5 l.f.	
Straight Split Face Units	011 10 W X 11 U	1 34.11. (0 × 10)		70	50	2,000		1.01.1.	
Compac	8"h x 18"w x 11"d	1 Sq. Ft. (8" x	18")	79	36	2,844	1	.5 l.f.	
Hewnstone Compac	8"h x 18"w x 11"d	1 Sq. Ft. (8" x		86	36	3,096		1.5 l.f.	
Hewnstone Return Corner	8"h x 6"d x 15"w	0.83 Sq. Ft		53.4	48	2,563		25 l.f.	
Universal Cap Unit	3-1/2"h x 18"w x 12"d	0.44 Sq. Ft. (3-1/2		62	56	3,472		1.5 l.f.	
Universal Stair Tread	3-1/2"h x 18"w x 20"d	0.44 Sq. Ft. (3-1/2		106	28	2,968		1.5 l.f.	
90 Degree Return Corner Units	0 1/2 11 × 10 10 × 20 0	0.1104.11.(01)2		100	20	2,000		.0	
8" 90° Return Corner	8"h x 18"w x 9"d	1 Sq. Ft. (8" x	18")	86	30	2,580		_	
3" Caps/Coping			,			2,000			
3" x 24" Cap	3"h x 12"d x 24"w	1/2 Sq. Ft. (3" x 24")		72	48	3,504		2 I.f.	
Country Corner	3"h x 12"d x 12"w	1/4 Sq. Ft. (3" x		36	96	3,504		1 l.f.	
Coping Stone	3-7/8"w x 12 7/8" Length	2.83 Pcs/Sq. Ft.		10	117	1,170		33 l.f.	
	x 2-3/8" Thick								
SPECIAL ORDER WALL STONES									
Mini Straight Split	4"h x 18"w x 11"d	1/2 Sq. Ft. (4" x	(18")	43	63	2,709	1	.5 l.f.	
Mini Sculptured Split	4"h x 18"w x 11"d	1/2 Sq. Ft. (4" x		46	56	2,576		.5 l.f.	
Mini Cap Sculptured Split	4"h x 18"w x 11"d	1/2 Sq. Ft. (4" x		46	56	2,576		.5 l.f.	
4" 90° Return Corner	4"h x 18"w x 9"d	1/2 Sq. Ft. (4" x		43	60	2,580		_	
Compac Cap Sculptured Split	8"h x 18"w x 11"d	1 Sq. Ft. (8" x		96	32	3,072	1	.5 l.f.	
Country Manor SE - Smooth Ends						.,			
6" Large Unit	6"h x 10"d x 16"/14"w	1 Set = 1.4 Sq. Ft	t. Max.	66	20 Sets/Cube	2,928	1 Set =	2.5 l.f. Max.	
6" Medium Unit	6"h x 10"d x 12"/10"w			47					
6" Small Unit	6"h x 10"d x 6"/4"w			23					
3" Large Unit	3"h x 10"d x 16"/14"w	1 Set = 0.7 Sq. Ft	t. Max.	35	40 Sets/Cube	3,088	1 Set =	2.5 l.f. Max.	
3" Medium Unit 3" Small Unit	3"h x 10"d x 12"/10"w 3"h x 10"d x 6"/4"w			26 12					
Country Manor Return Corner	0 11 × 10 u × 0 /4 W			12					
6" Large Unit	6"h x 10"d x 16"/14"w	1 Set = 1.4 Sq. Ft	Max	70	20 Sets/Cube	2,928	1 Sot -	2.5 l.f. Max.	
6" Medium Unit	6"h x 10"d x 12"/10"w	1 00t = 1.4 0q. 11	. IVIUA.	50	20 0013/0000	2,020	i det =	2.0 π.τ. τνταλ.	
6" Small Unit	6"h x 10"d x 6"/4"w			25					
3" Country Manor Return Corner Large	3"h x 10"d x 16"/14"w	1 Set = 0.7 Sq. Ft	t. Max.	36	40 Sets/Cube	3,088	1 Set =	2.5 l.f. Max.	
3" Country Manor Return Corner Medium	3"h x 10"d x 12"/10"w			27					
3" Country Manor Return Corner Small	3"h x 10"d x 6"/4"w			13					
Sculptured Split Face Units									
Standard	8"h x 18"w x 22"d	1 Sq. Ft. (8" x	18")	116	20	2,320	1	.5 l.f.	
Straight Split Face Units									
Standard	8"h x 18"w x 22"d	1 Sq. Ft. (8" x	10")	128	20	2,560	1	.5 l.f.	





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