



**SELECT
STONE™**

Frontier Sandstone Product Guide

888.237.1000 www.selectstone.com

FRONTIER™ PAVING STONES



FLAGSTONES

Description	Thickness	Average Piece Size	Coverage*
1" minus Standup Flagstone	5/8" - 1"	3 to 15 sf	130-150 sf/ton
1 1/4" Standup Flagstone	1" - 1 1/2"	3 to 15 sf	90-100 sf/ton
2" Standup Flagstone	1 1/2" - 2 1/2"	3 to 15 sf	70-80 sf/ton
Patio Flagstone	1" - 2"	1 to 3 sf	80 sf/ton
Tumbled Patio Flagstone	1" - 2"	1 to 3 sf	80 sf/ton

*Coverage values are estimates and may vary depending on the joint spacing



Standup flagstone



Standup flagstone



Patio flagstone



Tumbled patio flagstone

SAWN-EDGE PAVERS

Description	Thickness	Joint Size	Smallest Piece	Largest Piece
1"-minus 5-piece pattern	5/8" - 1"	1/4" joint	11 3/4" x 11 3/4"	17 3/4" x 23 3/4"
1" - 2" 5-piece pattern	1" - 2"	1/4" joint	11 3/4" x 11 3/4"	17 3/4" x 23 3/4"
1"-minus 8-piece pattern	5/8" - 1"	1/4" joint	11 3/4" x 11 3/4"	23 3/4" x 23 3/4"
1" - 2" 8-piece pattern	1" - 2"	1/4" joint	11 3/4" x 11 3/4"	23 3/4" x 23 3/4"

Custom pattern flooring available upon request - Call for pricing



Sawn-edge pattern



Sawn-edge pattern

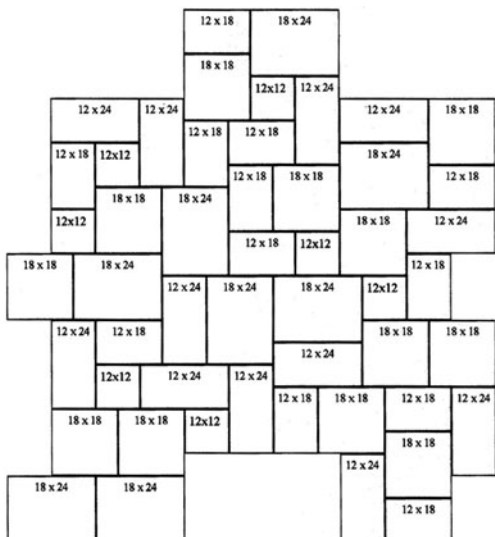


Tumbled sawn-edge pattern



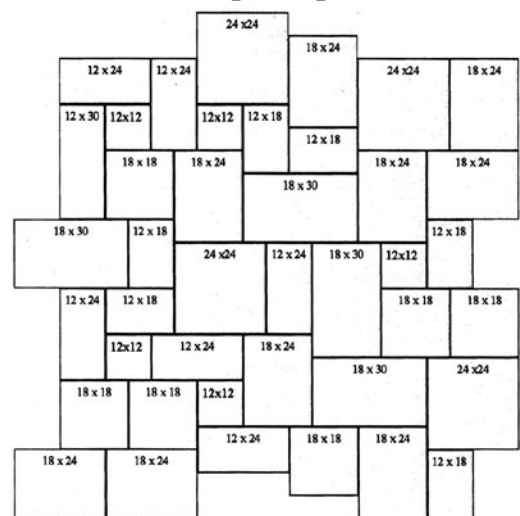
Tumbled sawn-edge pattern

5-piece pattern



Includes sizes 11 3/4" x 11 3/4", 11 3/4" x 17 3/4", 11 3/4" x 23 3/4", 17 3/4" x 17 3/4", and 17 3/4" x 23 3/4"

8-piece pattern



Includes sizes 11 3/4" x 11 3/4", 11 3/4" x 17 3/4", 11 3/4" x 23 3/4", 17 3/4" x 17 3/4", 17 3/4" x 23 3/4", 11 3/4" x 29 3/4", 17 3/4" x 29 3/4", and 23 3/4" x 23 3/4"

FRONTIER™ PAVING STONES

CHOPPED PAVERS

Chopped pavers are natural cleft on the top and bottom and chopped on four edges. They can be random-size rectangles or cut to customer-specified sizes. Maximum lengths and widths are 36".

<u>Description</u>	<u>Thickness</u>	<u>Face Area +/-</u>	<u>Coverage +/-</u>
4-piece pattern	2" to 3"	8" x 8", 8" x 16", 16" x 16", 16" x 24"	NA
12" x 12" chopped pavers	1"-2" or 2"-3"	12" x 12"	NA
Random-size rectangular pavers	2" to 3"	6" x 8" up to 24" x 30"	60 sf/ton
Custom-size pavers less than 18" on any edge	2" to 3"	as specified	NA
Custom-size pavers 18" to 24" on any edge	2" to 3"	as specified	NA
Custom-size pavers 24" to 36" on any edge	2" to 3"	as specified	NA
Cobblestones (untumbled)	2" to 3"	9"L x 5"W (+/- 1/2")	NA
Curbing	4" to 8" (as specified +/- 1")	RL x 6"+ width	NA



Random-size rectangular pavers



Chopped 4-piece pattern



12" x 12" chopped pavers



Random-size rectangular pavers

CHOPPED AND TUMBLED PAVERS

Tumbled pavers are natural cleft on the top and bottom and chopped on four edges. They can be random-size rectangles or cut to customer-specified sizes. Because of the tumbling, the maximum length/width is 36" for 3"-4" pavers and smaller for 2"-3" pavers.

<u>Description</u>	<u>Thickness</u>	<u>Face Area +/-</u>	<u>Coverage +/-</u>
Tumbled random-size rectangular pavers	2" to 3"	6" x 8" up to 16" x 24"	60 sf/ton
Tumbled custom-size pavers less than 18" on any edge	2" to 3"	up to 2.25 sf/piece	NA
Tumbled custom-size pavers 18" to 24" on any edge	3" to 4"	2.25 sf up to 4 sf per piece	NA
Tumbled cobblestones	2" to 3"	9"L x 5"W (+/- 1/2")	NA
Tumbled cobblestones	2 1/2" to 3 1/2"	9"L x 5"W (+/- 1/2")	NA
Tumbled curbing	4" to 8" (as specified +/- 1")	RL x 6"+ width	NA
Sawn-edge tumbled pavers	As specified	As specified	NA



Tumbled cobblestones



Tumbled cobblestones



Tumbled rectangular pavers



Tumbled rectangular pavers



Tumbled cobblestones and curbing



Tumbled rectangular pavers



Sawn-edge tumbled pavers



Tumbled curbing

FRONTIER™ BUILDING STONES



CHOPPED BUILDING STONE

Description

Split-face - chopped face, natural bed top/bottom
 Split-face - chopped face, natural bed top/bottom
 Squares and rectangles, natural bed face laid out
 Rubble (small irregular shaped pieces)
 8" split-face dry stack (thin)
 8" split-face dry stack (thick)
 Random dry stack

Bed Depth

3" - 5 1/2"
 3" - 5 1/2"
 3" - 5 1/2"
 3" - 5 1/2"
 8"
 8"
 6" - 10"

Face Area +/-

2" - 3 1/2" tall x RL
 3 1/2" - 5 1/2" tall x RL
 6" - 14" tall, 10"-30" long
 NA
 3" - 6" tall x RL
 6" - 9" tall x RL
 6" - 14" tall x RL

Coverage +/-

35-40 sf/ton
 35-40 sf/ton
 35-40 sf/ton
 35-40 sf/ton
 15-20 sf/ton
 15-20 sf/ton
 15-20 sf/ton

TUMBLLED BUILDING STONE

Description

Tumbled split-face - chopped face, natural bed top/bottom
 Tumbled split-face - chopped face, natural bed top/bottom
 Tumbled squares and rectangles - natural bed face laid out
 Tumbled rubble (small irregular shaped pieces)
 Tumbled irregular wall stone (larger than rubble)
 Tumbled 8" split-face dry stack (thin)
 Tumbled 8" split-face dry stack (thick)
 Tumbled random dry stack

Bed Depth

3" - 5 1/2"
 3" - 5 1/2"
 3" - 5 1/2"
 3" - 5 1/2"
 3" - 5 1/2"
 8"
 8"
 6" - 10"

Face Area +/-

2" to 3-1/2" tall x RL
 3-1/2" to 5-1/2" tall x RL
 6" - 14" tall, 10"-30" long
 NA
 NA
 3" - 6" tall x RL
 6" - 9" tall x RL
 6" - 14" tall x RL

Coverage +/-

35-40 sf/ton
 35-40 sf/ton
 35-40 sf/ton
 35-40 sf/ton
 35-40 sf/ton
 15-20 sf/ton
 15-20 sf/ton
 15-20 sf/ton

Custom-dimension building stone is available. Please call for limitations and pricing.



Split-face 2"-3 1/2"



Split-face and squares/rectangles



3"-5 1/2" Squares/rectangles



Split-face and squares/rectangles



Tumbled split-face 2"-3 1/2"



Tumbled squares/rectangles



Tumbled split-face & squares/rectangles



Tumbled irregular wall stone



Tumbled irregular wall stone



8" split-face dry stack



8" split-face dry stack

FRONTIER™ CAP, SILL, ARCHES, AND QUOINS

SILL AND CAP

Customers typically specify the thickness and the width of cap and sill based on their project requirements. Sill and cap are cut to a thickness tolerance of $\pm 1/4"$. Lengths may be specified by the customer or, more commonly, they are random and range from 12" to 36". Sill and cap are available tumbled or untumbled.



Wall cap



Column cap

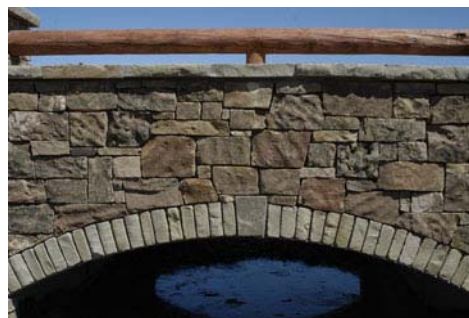
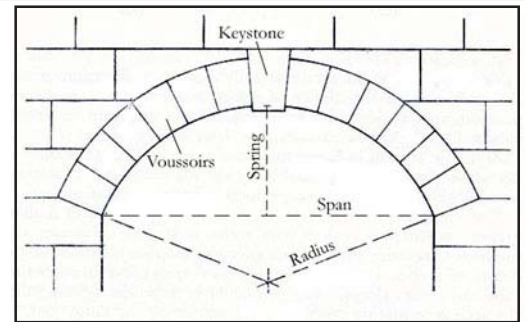
Column cap

Tumbled cap

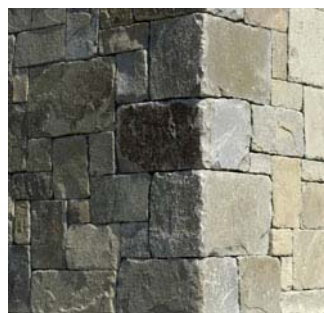
Tumbled sills

ARCHES AND QUOINS

Frontier arch stones are cut to the specifications provided by the customer. Specifications can include the radius, span and spring of the arch, and the size and number of voussoirs and the dimensions of the keystone (see drawing at right). Quoins are large corner stones. They can be cut to specific dimensions or can vary within a specified range of sizes. Gutted quoins are cut out in the back to allow them to wrap around corners, giving the appearance of thicker stone.



Tumbled arches



Tumbled quoins

Tumbled quoins

Tumbled gutted quoins

Tumbled gutted quoins

FRONTIER™ SLABS AND TREADS



RANDOM SLABS & TREADS Used for hearths, mantels, treads, lintels, headers, chimney caps, and countertops.

Description

Custom-size, natural-edge slabs selected for length/width/thickness specifications.

May be drilled and split on some edges to minimize waste.

Natural-edge stair treads, chopped to length, natural or split to width with 1 natural long edge.

Lengths 4' to 8' on 1' increments, width ranges 14" - 24" or 24"-36", 5" - 7" thick

Natural-edge treads as above but cut to specified lengths (other than 4', 5', 6', 7', or 8')

Countertop slabs - raw edges, measured as largest usable footage

Thickness Range/Tolerance

2" up to 12" (+/- 1")

5"-7"

5"-7"

1" - 2"

SAWN-EDGE SLABS Sawn lengths up to 10 feet depending on the thickness.

Description

Thin slabs sawn to dimension

Thick slabs sawn to dimension

Slabs with both sawn and chopped edges

Slabs with both sawn and chopped edges

Thickness Range

4" and less

Greater than 4"

4" or less

Greater than 4"

Thickness Tolerance

+/- 1/2"

+/- 1"

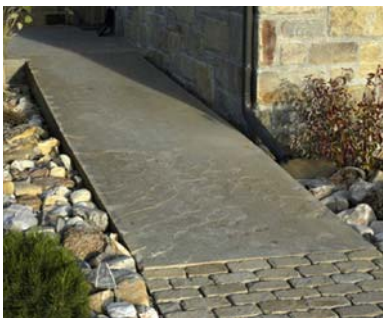
+/- 1/2"

+/- 1"

Edge Treatment - Two treatments are available soften the sawn edges of slabs. See example images below.

Bush-hammered

Sand-blasted



Custom-size natural slabs

Countertop slabs



Natural-edge treads, chopped to length



Sawn slabs

Sawn slabs

Bush-hammered edge

Sand-blasted edge

FRONTIER™ NATURAL THIN VENEER

The Frontier Sandstone is cut into natural thin veneer that can be adhered to walls that don't have the weight-bearing capacity needed for full-thickness stone. Frontier Natural Thin Veneer is available in a variety of styles and in both tumbled and untumbled textures. In addition to thin wall stone and thin corners, thin wall cap is also available.

NATURAL THIN VENEER (TUMBLED AND UNTUMBLED)

Description

- Thin split-face
- Thin squares and rectangles
- Thin bed-face ledge
- Thin bed-face rubble - natural bed face laid out
- Thin corners (both split-face and squares and rectangles)
- Thin wall cap - 3"W x 2 1/2" tall x RL

Thickness

- 3/4" - 1 1/4"
- 3/4" - 1 1/4"
- 3/4" - 1 1/4"
- 3/4" - 1 1/4"
- 3/4" - 1 1/4"
- 2 1/2"

Qty per crate

- 100 sf/crate
- 100 sf/crate
- 100 sf/crate
- 100 sf/crate
- 100 lf/crate
- NA



Thin split-face and squares/rectangles



Thin tumbled split-face and squares/rectangles

Thin tumbled bed-face ledge



Thin split-face

Thin squares/rectangles

Thin corners

Thin wall cap



Thin tumbled split-face

Thin tumbled squares/rectangles

Thin tumbled corners

Thin tumbled bed-face ledge



ASTM results for the Frontier Sandstone

Density - 160 lbs/cf
Water Absorption - 1.05%
Compressive Strength - 15,271 psi

Modulus of Rupture - 2,316 psi
Flexural Strength - 2,693 psi

Frontier Sandstone Conditions of Sale

1. All prices are FOB the quarries in Harlowton or Ryegate, MT.
 2. Payment is due net-30 days from invoice date on all sales unless otherwise agreed. Invoices not paid within 30 days will accrue interest at the rate of 1.5% per month on the unpaid balance.
 3. Pre-payment may be required for new customers.
 4. Most stones are sold by weight, including pallet weight, as measured on certified scales at the quarry.
 5. All sales are final. No returns, credits, or exchanges will be allowed unless agreed to by Select Stone.
 6. Stone is a natural product, and color and texture will vary. Color selection is not possible.
 7. Select Stone provides no warranties of any kind, including any warranty regarding the use of the Frontier Sandstone in construction. Select Stone has not performed any testing or engineering analysis for any particular use of the Frontier Sandstone. Select Stone shall not be liable for any incidental, special or consequential damages resulting from the use of the Frontier Sandstone.
- These conditions shall be governed and construed in accordance with the laws of the state of Montana, and venue of any dispute arising out of or related to these conditions shall be in Gallatin County, Montana.