

FREQUENTLY ASKED QUESTIONS

1. *What size are they & how much do they weigh?*

Vertica Pro: (.94 sq.ft.) <u>Beveled & Straight:</u>	7.5”H x 18”L x 20”W (Depth) Approx. 105 lbs.
Vertica: (.94 sq.ft.) <u>Beveled & Straight:</u>	7.5”H x 18”L x 11”W (Depth) Approx. 77 lbs.
Diamond Pro: (1.0 sq.ft.) <u>Bev. & Str.:</u>	8”H x 18”L x 12”W (Depth) Approx. 72 lbs.
Diamond: (.67 sq.ft.) <u>Beveled:</u>	6”H x 15-7/8”L x 12”W (Depth) Approx. 68 lbs.
(.72 sq.ft.) <u>Straight:</u>	6”H x 17-1/4”L x 12”W (Depth) Approx. 72 lbs.
Highland Stone: Large: (.75 sq.ft.)	6”H x 18”L x 12”W (Depth) Approx. 73 lbs.
(Multi-piece system) Medium: (.50 sq.ft.)	6”H x 12”L x 12”W (Depth) Approx. 59 lbs.
Small: (.25 sq.ft.)	6”H x 6”L x 12”W (Depth) Approx. 30 lbs.
Jumper Unit: (.50 sq.ft.)	12”H x 6”L x 13 1/4”W (Depth) Approx. 48 lbs.
Bayfield: (.72 sq.ft.)	6”H x 17-1/4”L x 10”W (Depth) Approximately 47 lbs.
Windsor: (.33 sq.ft.)	4”H x 11-5/8”L x 8”W (Depth) Approximately 25 lbs.
Aspen Stone: (.33 sq.ft.)	4”H x 11-5/8”L x 7”W (Depth) Approximately 24 lbs.
Sahara: (.22 sq.ft.)	4”H x 8”L x 8-3/4”W (Depth) Approximately 20 lbs.
Border: (.24 sq.ft.)	4”H x 8-1/2”L x 5-1/2”W (Depth) Approximately 12 lbs.

2. *How much do I need?*

First determine the square footage of the wall (L x H), **including base course***. Example: 25’L x 2’H = 50 sqft. Based on a 50 square foot wall you will use the following factors to calculate the estimated number of blocks required, excluding waste.

- Vertica & Vertica Pro:** Divide wall square footage by **.94**
- Diamond Pro:** Divide wall square footage by **1.0** (each block is one sq. foot)
- Diamond Beveled:** Divide wall square footage by **.67**
- Diamond Straight:** Divide by **.72**
- Highland Stone:** Refer to estimating chart
- Bayfield:** Divide wall square footage by **.72**
- Windsor:** Divide wall square footage by **.33**
- Aspen Stone:** Divide wall square footage by **.33**
- Sahara:** Divide wall square footage by **.22**
- Border:** Divide wall square footage by **.24**

* For Windsor, Aspen Stone, Sahara & Border Stone walls **up to one foot** high you should **bury half** of the first course. For walls between **one & two feet** high you should **bury the whole** first course. For *most* Vertica Pro, Vertica, Diamond Pro, Diamond, Highland Stone and Bayfield walls **up to ten feet** high you should **bury at least 6”**. **Make sure you figure the amount buried into you square footage calculation.**

3. **How many caps do I need? (Diamond, Dia. Pro, Highland, Bayfield, Vertica & Vertica Pro)**
 To compute the number of caps that are needed for the above blocks, convert the linear feet of the wall to inches and divide by 14.5. Example: a 100 ft long wall would need 83 caps (100 x 12 divided by 14.5). (For Windsor & Bayfield caps divide by 10.5) **Add for “waste” and walls with a radius.**

4. **How high can I go with my wall?**

The maximum height, including imbedded first course, for a **gravity (non-reinforced)** retaining wall using the following products is:

Vertica Pro:	6 feet 3 inches, including 6” embedment (5 feet 9” above grade)*	(10 courses)
Vertica:	3 feet 1.5 inches, including 6” embedment (2 feet 7.5” above grade)*	(5 courses)
Diamond Pro:	3 feet 4 inches, including 6” embedment (34” above grade)*	(5 courses)
Highland:	4 feet, including 6” embedment (3 ½ feet above grade)*	(7 courses)
Bayfield:	3 feet, including 6” embedment (2 ½ feet above grade)*	(6 courses)
Diamond:	4 feet, including 6” embedment (3 ½ feet above grade) *	(7 courses)
Windsor:	2 feet, including 4” embedment (20 inches above grade)	(6 courses)
Sahara:	2 feet, including 4” embedment (20 inches above grade)	(6 courses)
Border:	16” including 4” embedment (12 inches above grade)	(4 courses)

***The above maximum heights are based on the following assumptions:**

- 1) Level finished grades in front and behind wall (no slopes)
- 2) Sand/gravel soil on site
- 3) No surcharge on wall (i.e. driveway, parking lot, building)
- 4) 6” aggregate with fines compacted base

*** Reinforced & properly engineered** walls with the Anchor Vertica Pro, Vertica, Diamond, Diamond Pro and Highland Stone **can exceed 20 feet.**

5. **Can I build multiple or terraced gravity walls to stay at or under the recommended maximum wall height?**

Yes, however, a terraced wall creates a surcharge load on the lower wall. Therefore, the distance between the walls should be greater than two times the height of the first (lower) wall. Example: if the first (lower) wall is 3 feet high, then the second wall must start at least 6 feet behind it. There are exceptions to this rule, but, engineering is required because the walls are no longer considered independent.

6. **What holds the wall in place?**

An integral rear lip or raised locator (Vertica) is manufactured into the blocks. The lip and locator automatically guides each new course; ensuring proper alignment and precise setback. **No Pins. No Mortar.**

7. **How much setback is there?**

The rear lip on each block is designed and engineered with a uniform degree of setback per course or block. The degree in inches per course for each block is:

	<u>Amount of setback per foot of wall height</u>	
Vertica & Pro	½” (4 Degree)	.8 inches
Diamond Pro:	1” (7 Degree)	1 ½ inches
Diamond:	1-1/8” (11 Degree)	2 ¼ inches
Highland:	1-1/8” (11 Degree)	2 ¼ inches
Bayfield:	1-1/8” (11 Degree)	2 ¼ inches
Windsor:	¾”	2 ¼ inches
Aspen Stone:	¾”	2 ¼ inches
Sahara & Border:	½”	1 ½ inches

8. ***Do I need to / or can I set the wall on concrete footings or slabs?***

Concrete footings and pads will add considerable expense and will not allow the system to blend in and move. Therefore, they are not recommended or necessary. However, if they exist, the blocks can be installed on top of them provided at least one full block is buried below grade or the blocks are glued to the footer using a concrete adhesive.

9. ***What is the smallest radius I can make?***

The minimum radius is measured to the face of the blocks.

Vertica Pro (Bev & Str)	7 feet outside	7 feet inside
Vertica Beveled:	4 feet outside	7 feet inside
Vertica Straight:	7 feet outside	7 feet inside
Diamond Pro Bev:	2 feet outside	4 feet inside
Diamond Pro Str:	4 feet outside	8 feet inside
Diamond Beveled:	2 feet outside	4 feet inside
Diamond Straight:	4 feet outside	8 feet inside
Highland:	4 feet outside	8 feet inside
Bayfield:	4 feet outside	8 feet inside
Windsor & Aspen:	2 feet outside	4 feet inside
Sahara:	Not designed for curved configurations	
Border:	1 foot, 8 inches outside	

10. ***What colors are available? The following are IN STOCK colors***

Vertica:	Gray, Wheat, Cocoa	(Corners & caps available)
Diamond Pro:	Gray, Wheat	(Corners & caps available)
Diamond:	Gray, Wheat, Cocoa	(Steps & caps available)
Highland:	Stoney Creek (Gray/Wheat), Autumn Blend (Red/Wheat/Charcoal), Tortoise Shell (Wheat/Brown) (Steps, caps & jumper unit available)	
Windsor:	Gray, Wheat, Cocoa, Peach, Terra cotta, White	(Caps available)
Aspen Stone:	Sunburst (Orange/Wheat), Carbondale (Charcoal/Brown) and Granite (White/Black) (Caps available)	
Border:	Gray, Wheat, Terra cotta, Cocoa	
Sahara:	Gray, Wheat, Terra cotta, Cocoa	

11. ***How many blocks do I need for a curve?***

The number of blocks will depend on the style of block used and the size of the curve. The formula to calculate the number of blocks needed for a specific curve is:

$2 \times \text{pie} \times \text{radius}/\text{width of block}$, or $(2 \times 3.14 \times \text{radius of curve}^*)/\text{width of block}$.

*the radius needs to be converted to inches prior to computing block count

Example: One Windsor course of a 10' diameter tree ring. Radius is $5' \times 12'' = 60''$
To calculate the number of blocks needed, multiply $2 \times 3.14 \times 60'' = 376.8''$
Divide $376.8/11.625$ (width of Windsor) = 32.4. For this example, 33 Windsor blocks will be needed in order to build one course of a 10' diameter tree ring.