

Technical Data

Weight percentages passed through screens

Product #	Screen Size VDOT #**	90 mm	75 mm	63 mm	50 mm	37 mm	25 mm	19 mm	12 mm	9.5 mm	4.75 mm	2.36 mm	2.00 mm	1.18 mm	850 µm	600 µm	425 µm	300 µm	250 µm	150 µm	75 µm
		3½"	3"	2½"	2"	1½"	1"	¾"	½"	⅜"	#4	#8	#10	#16	#20	#30	#40	#50	#60	#100	#200
1	1	90-100		25-60		0-15		0-5													
2	2		100	90-100	35-70	0-15		0-5													
3	3			100	90-100	35-70	0-15		0-5												
4	Rail Ballast			100	90-100	60-90	10-30	0-10		0-2											
5	5					100	90-100	20-55	0-10	0-5											
6	357			100	95-100		95-100		10-30		0-5										
56	56					100	35-70	40-85	10-40	0-15	0-5										
57	57					100	90-100		25-60		0-10	0-5									
68	68						95-100	90-100		30-65	5-25	0-10		0-5							
78	78						100	100	90-100	40-75	5-25	0-10		0-5							
8	8								100	85-100	10-30	0-10		0-5							
88	8P								100	75-100	5-30	0-5									
9	9									100	85-100	10-40		0-10				0-5			
10	10									100	85-100									10-30	
13	B Slurry Seal									100	90-100	65-90		45-70		30-50		18-33		10-21	5-15
14	C Slurry Seal									100	70-95	45-70		32-54		23-38		16-29		9-20	5-12
16	B-Sand									100	94-100									0-10	
11*	21A*				100					63-72			32-41				14-24				6-12
12*	21B*				100					50-69			20-36				9-19				4-7
25	25					100					14-50										
26	26						94-100	90-100			16-60										
39	Gabion 4"-8"						85-95														
40-43	Rip Rap																				

** Not applicable to North Carolina specifications.
 *Grading data provided is a guide only,
 as each plant has a unique job mix.

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Technical Data

Stone by location

Site numbers
coorespond
to map
locations

	Plant	Stone Type	Specific Gravity (Dry)	Absorption (%)	Soundness Loss (%)*	L.A. Abrasion (%)	Unit Weight (Lbs/Ft ³)	
							Open-Graded	Dense-Graded**
1	Bealeton	Diabase	2.972	0.33	0.5	13.2	105.1	134.9
3	Boscobel	Granite	2.591	0.87	9.5	28.6	98.6	116.8
4	Bull Run	Diabase	2.919	0.59	0.6	15.0	110.0	126.0
5	Burkeville	Granite	2.645	0.58	2.8	40.9	97.6	116.2
6	Caroline	River Quartz	2.624	0.33	1.1	38.4	110.5	N/A
7	Charlottesville	Basalt	2.942	0.40	0.4	11.8	106.0	136.6
8	Culpeper	Siltstone	2.737	0.64	0.4	14.0	99.0	121.2
9	Fairfax	Diabase	2.863	0.89	1.1	12.6	101.9	126.3
11	Goose Creek	Diabase	2.960	0.51	0.5	13.3	115.7	132.4
12	Greene	Granite	2.792	0.46	1.7	28.2	105.5	122.7
13	Leesburg	Diabase	2.989	0.46	0.6	16.2	111.1	133.0
15	Massaponax	Granite	2.663	0.67	4.7	33.3	96.4	116.4
16	Pittsboro	Volcanic	2.783	0.83	3.6	11.5	98.9	122.7
18	Powhatan	Granite	2.689	0.66	1.6	19.4	102.7	124.8
15	Rockville	Granite	2.659	0.48	2.1	19.5	98.2	121.2
19	South Richmond	Granite	2.747	0.54	1.7	36.8	102.8	119.8
20	Spotsylvania	Granite	2.732	0.40	2.2	38.0	103.0	116.4

- Construction Aggregates
- ◆ Sand & Gravel

Stone is also sold out of our three distribution yards, Gilmerton, Berkley and Toano. Please call for stone information.
 *Test performed with Magnesium Sulfate (MgSO₄)
 **Dense Graded refers to base, dust, crusher run

How to compute approximate stone tonnages:

Use the Technical Data Chart above to find the unit weight (Lbs/Ft³) of the stone, then use in the formula:

$$\frac{\text{Unit Weight (Lbs/Ft}^3) \times (\text{Length} \times \text{Width (In Feet)}) \times \left(\frac{\text{Depth by Inches}}{12}\right)}{2,000 \text{ Lbs}} = \text{Approximate Tonnage Needed}$$

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Calculating Square Feet:

Square or Rectangular Area:

Length x Width

Circular Area:

Diameter² x .785

Example:

A square area measuring 10 feet x 10 feet, with 4 inches fill depth

100 lbs. x [10 ft. x 10 ft.] x [4 in. ÷ 12] ÷ 2,000 lbs. = 1.67 Tons

100 x 100 x .3333 ÷ 2,000 = 1.67 Tons