



2022

Product Data Sheet  
Plant: Blue Ridge

I. GEOLOGICAL FORMATION: Conococheague Limestone

II. CHEMICAL ANALYSIS :

Silica	as SiO2	11.4%	Calcium	as CaO	39.70%	as CaCO3	54.0%
Iron	as Fe2O3	1.3%	Magnesium	as MgO	6.94%	as MgCO3	31.0%
Aluminum	as Al2O3	2.6%	Calcium Carbonate Equiv.			CCE	85.0%
Sulfur	as S	0.3%					

III. QUALITY DATA:			Product												
TEST	TEST DATE		1	3	357	5	Concrete 57	Coarse 57	68	78	8/8P	9	A Sand	10 Block Mix	LIME
<b>* SPECIFIC GRAVITY *</b>															
BULK (ASPHALT)	2/21		2.750	2.736	2.726	2.730	2.731	2.740	2.720	2.706	2.724	2.714	2.712	2.700	2.701
BULK - SSD (CONCRETE)	2/21		2.764	2.753	2.741	2.745	2.748	2.752	2.739	2.726	2.746	2.742	2.740	2.731	2.717
APPARENT	2/21		2.789	2.782	2.766	2.773	2.778	2.775	2.773	2.761	2.787	2.793	2.763	2.785	2.745
% ABSORPTION	2/21		0.5%	0.6%	0.5%	0.6%	0.6%	0.5%	0.7%	0.7%	0.8%	1.1%	1.1%	1.1%	0.6%
<b>* UNIT WEIGHT *</b>															
DRY RODDED (LBS/CUBIC FT)	2/21		89.7	94.9	99.9	98.1	99.7	96.1	100.8	102.9	98.4	92.8	92.8	91.4	82.1
DRY RODDED (LBS/CUBIC YARD)	2/21		2421.9	2562.3	2562.3	2648.7	2691.9	2594.7	2721.6	2778.3	2656.8	2505.6	2505.6	2467.8	2216.7
DRY RODDED ( % VOIDS )	2/21		47.7%	44.4%	41.3%	42.4%	41.5%	43.8%	40.6%	39.1%	42.1%	45.2%	45.2%	45.7%	51.3%
DRY RODDED (Kg/Cubic Meter)	2/21		1437	1520	1600	1571	1597	1539	1615	1648	1576	1487	1487	1464	1315
VTM-5 % VOIDS IN STONE SAND	2/21												47.1%	47.7%	
ASTM C1252 % VOIDS (METH B)	2/21												50.8%	50.2%	
ASTM C1252 % VOIDS (METH C)	2/21												47.8%	47.9%	
ASTM D4791 % F & E (3:1)	2/21					9.2%	6.4%	11.4%	10.6%	8.6%	11.4%				
<b>* LOS ANGELES DEGRADATION *</b>															
GRADING A % LOSS	2/21	17.7%													
GRADING B % LOSS	2/21	16.0%													
GRADING C % LOSS	2/21	14.7%													
SOUNDNESS % LOSS (Magnesium Sulfate)	5/21		0.5%	0.5%	0.5%	0.8%	1.2%	1.0%	1.4%	1.3%	1.3%	7.6%	7.0%	6.9%	
SOUNDNESS % LOSS (Sodium Sulfate)															
<b>*Surface Treatment Rate of Application*</b>															
Stone (lb/sq yd)															
Emulsion (gal/sq yd)															
<b>* SUPERPAVE *</b>															
ASTM C1252 % VOIDS (METH A)	2/21												47.7%	47.2%	
AASHTO T 176 SAND EQUIVALENT	2/21												79	64	
ASTM D4791 % F & E (5:1)	2/21					1.3%	0.2%	1.0%	1.1%	1.9%	1.6%				

**VIRGINIA DEPARTMENT OF TRANSPORTATION  
MATERIALS DIVISION  
REPORT ON THEORETICAL MAXIMUM DENSITY AND OPTIMUM MOISTURE CONTENT  
(VTM-1)**

Report Date:	3/16/2022 3:20 PM	Production Year:	2022
Producer Name:	Boxley Materials Company	Plant Name:	Blue Ridge Stone Corp.
Job Mix ID:	2004-2014-01	Max. Dry Density (-No.4 portion):	135.1
Type Mix:	Aggregate Base Material-Type I	Optimum Moisture Content (-No.4 portion):	8.7 %
Size Aggregate:	21A	Bulk Specific Gravity:	2.760
Absorption::	0.3 %	Average percent of +No.4 material:	66.8 %
		Number of Samples Referenced:	4

Corrected Maximum Dry Density (lbs/ft³)	157.8
Corrected Optimum Moisture Content (%)	3.8

**NOTE:** This report has been generated by the Materials Information Tracking System (MITS) /  
Producer Lab Analysis and Information Details (PLAID).

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MATERIALS DIVISION  
REPORT ON THEORETICAL MAXIMUM DENSITY AND OPTIMUM MOISTURE CONTENT  
(VTM-1)**

Report Date:	3/16/2022 3:21 PM	Production Year:	2022
Producer Name:	Boxley Materials Company	Plant Name:	Blue Ridge Stone Corp.
Job Mix ID:	2004-2014-03	Max. Dry Density (-No.4 portion):	135.1
Type Mix:	Aggregate Base Material-Type I	Optimum Moisture Content (-No.4 portion):	8.7 %
Size Aggregate:	21B	Bulk Specific Gravity:	2.760
Absorption::	0.3 %	Average percent of +No.4 material:	62.6 %
		Number of Samples Referenced:	4

Corrected Maximum Dry Density (lbs/ft³)	156.2
Corrected Optimum Moisture Content (%)	4.1

**NOTE:** This report has been generated by the Materials Information Tracking System (MITS) /  
Producer Lab Analysis and Information Details (PLAID).