



2018

Product Data Sheet  
Plant: Blue Ridge

I. GEOLOGICAL FORMATION: Conococheague Limestone

II. CHEMICAL ANALYSIS ( March 2018 ) :

Silica	as SiO <sub>2</sub>	11.9%	Calcium	as CaO	43.9%	as CaCO <sub>3</sub>	48.0%
Iron	as Fe <sub>2</sub> O <sub>3</sub>	1.0%	Magnesium	as MgO	4.0%	as MgCO <sub>3</sub>	36.0%
Aluminum	as Al <sub>2</sub> O <sub>3</sub>	2.7%	Calcium Carbonate Equiv.			CCE	85.0%
Sulfur	as S	0.1%					

III. QUALITY DATA:		Product												
TEST	TEST DATE	1	3	5	Concrete 57	Coarse 57	68	78	8/8P	9	A Sand	10 Block Mix	LIME	
<b>* SPECIFIC GRAVITY *</b>														
BULK (ASPHALT)	01/18	2.763	2.760	2.743	2.771	2.765	2.768	2.771	2.752	2.707	2.707	2.707	2.712	
BULK - SSD (CONCRETE)	01/18	2.769	2.763	2.755	2.781	2.771	2.791	2.779	2.764	2.723	2.731	2.729	2.728	
APPARENT	01/18	2.779	2.770	2.777	2.800	2.782	2.833	2.794	2.785	2.751	2.773	2.768	2.757	
% ABSORPTION	01/18	0.2%	0.1%	0.4%	0.4%	0.2%	0.8%	0.3%	0.4%	0.6%	0.9%	0.8%	0.6%	
<b>* UNIT WEIGHT *</b>														
DRY RODDED (LBS/CUBIC FT)	01/18	94.4	100.0	96.6	99.5	98.4	96.1	97.8	99.1	93.8	99.4	111.8	85.8	
DRY RODDED (LBS/CUBIC YARD)	01/18	2548.8	2700.0	2608.2	2686.5	2656.8	2594.7	2640.6	2675.7	2532.6	2683.8	3018.6	2316.6	
DRY RODDED (% VOIDS)	01/18	45.3%	42.0%	43.8%	42.7%	42.8%	44.8%	43.6%	42.5%	44.8%	41.7%	34.4%	49.6%	
DRY RODDED (Kg/Cubic Meter)	01/18	1512	1602	1547	1594	1576	1539	1567	1587	1503	1592	1791	1374	
VTM-5 % VOIDS IN STONE SAND	01/18										51.0%	51.9%		
ASTM C1252 % VOIDS (METH B)	01/18										51.0%	50.7%		
ASTM C1252 % VOIDS (METH C)	01/18										46.2%	43.5%		
ASTM D4791 % F & E (3:1)	01/18			14.7%	8.8%	10.8%	19.6%	24.6%	26.1%					
<b>* LOS ANGELES DEGRADATION *</b>														
GRADING A % LOSS	01/18	16.8%												
GRADING B % LOSS	01/18	15.5%												
GRADING C % LOSS	01/18	17.7%												
SOUNDNESS % LOSS (Magnesium Sulfate)	01/18	0.3%	0.3%	0.5%	0.7%	0.7%	0.8%	0.9%	0.8%	1.9%	8.7%	8.0%	1.6%	
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)	01/18										47.5%	47.6%		
AASHTO T 176 SAND EQUIVALENT	01/18										93	75		
ASTM D4791 % F & E (5:1)	01/18			0.2%	0.1%	0.0%	1.7%	0.0%	0.7%					

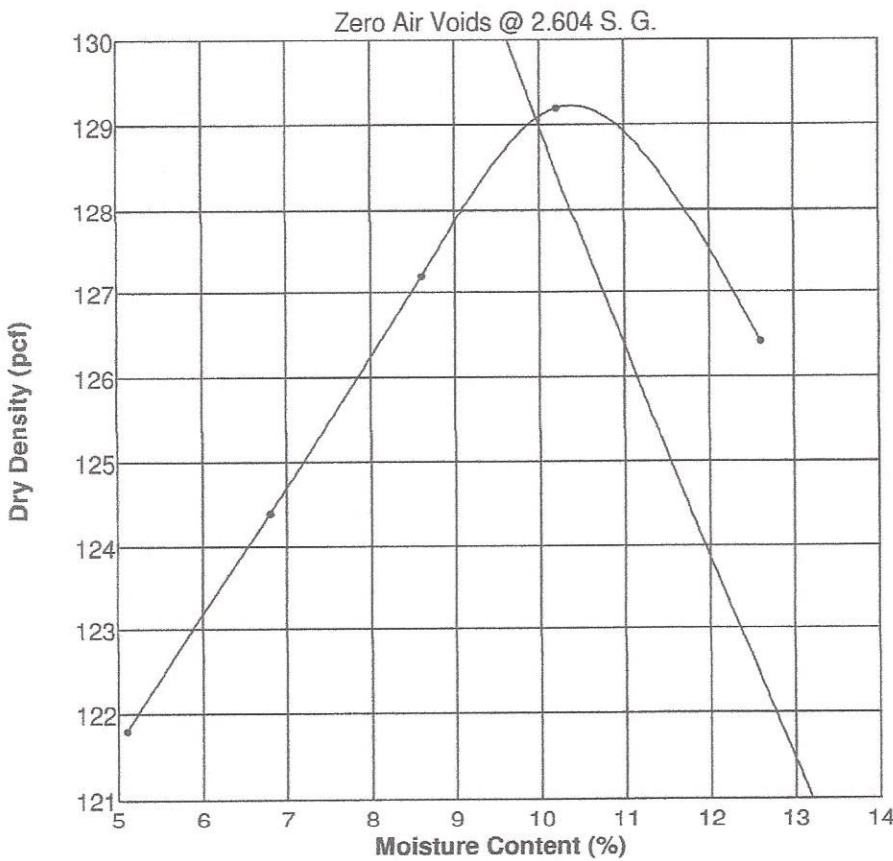
# Virginia Department of Transportation

Salem District Materials

To: Boxley - Blue Ridge

# Proctor Report

Project Number: Various  
 Report Number: 8259  
 Report Date: 15-Jan-15  
 Sample Type: 21B  
 Sampled By: RLR  
 Tested By: RLR  
 Source: Qyarry  
 Sample Date: 12-Jan-15  
 Date Received: 12-Jan-15  
 Date Tested: 13-Jan-15



Max. Dry Density (pcf): 129.2  
 Optimum Moisture Content (%): 10.4

Moisture Content (%)	Dry Density (pcf)	Wet Density (pcf)
5.1	121.8	128.0
6.8	124.4	132.9
8.6	127.2	138.1
10.2	129.2	142.4
12.6	126.4	142.3

21B

Per: \_\_\_\_\_

Reporting of these test results constitutes a testing service only. Engineering interpretation or evaluation of test results is provided only on written request.

VIRGINIA DEPARTMENT OF TRANSPORTATION

MATERIALS DIVISION

SALEM, VA

1/15/2015

Producer: Blue Ridge Stone Corp.

At: Blue Ridge, VA

Size Aggregate: 21A/21B

<u>% Retained on #4 sieve</u>	<u>Dry Wt. lbs/cu ft</u>	<u>Optimum Moisture Percent</u>
30.0	140.3	7.7
35.0	142.3	7.3
40.0	144.4	6.8
45.0	146.6	6.4
50.0	148.8	5.9
55.0	151.1	5.5
60.0	153.4	5.0
65.0	155.9	4.6
70.0	158.4	4.1

Absorption of +4s (%)	0.4
Maximum Density -4s (lbs/cu ft)	129.2
Optimum Moisture -4s (%)	10.4
Specific Gravity +4s	2.81

VIRGINIA DEPARTMENT OF TRANSPORTATION

MATERIALS DIVISION

SALEM, VA

1/15/2015

Producer: Boxley Aggregates

At: Blue Ridge, VA

Size Aggregate: 21A/21B

<u>% Retained on #4 sieve</u>	<u>Dry Wt. kg/cu meter</u>	<u>Optimum Moisture Percent</u>
30.0	2,247	7.7
35.0	2,280	7.3
40.0	2,313	6.8
45.0	2,348	6.4
50.0	2,383	5.9
55.0	2,420	5.5
60.0	2,458	5.0
65.0	2,497	4.6
70.0	2,537	4.1

Absorption of +4s (%)	0.4
Maximum Density -4s (kg/cu M)	2,070
Optimum Moisture -4s (%)	10.4
Specific Gravity +4s	2.81