

American Granite Curb Producers

Blue Sky & Moonlit Rose Granite

Client:	Williams Stone Co. Inc.	Project:	Blue Sky & Moonlit Rose Granite
Material:	Blue Sky Gray	Project Number:	120116
Source:	Blue Sky Quarry (Stockpile)	Lab Number:	12-0231A
Date Sampled:	2/15/2012	Sampled By:	Client
Date Tested:	3/20/2012 — 3/29/2012	Tested By:	Kevin Parrish

	Report of Compressive Strength of Dimension Stone								
	Test Method: ASTM C170								
Stone Type: Granite									
Specimen	Fabric Dip	Height	Width 1	Width 2	Area in ²	Load, Ibs	Compressive Strength, psi		
A	N/A	2.982	2.983	2.950	8.80	198240	22500		
В	N/A	2.974	2.968	2.938	8.72	226750	26000		
C	N/A	2.975	2.970	2.949	8.76	202280	23100		
D	N/A	2.970	2.969	2.932	8.71	207820	23900		
E	N/A	2.977	2.966	2,934	8.70	218240	25100		
Avg				-	•		24100		

- All dimensions in inches. Height to width ratio was approximately 1:1.
- Specimens were tested in an air-dry or a saturated condition.
- The dip of the rock fabric (layering and/or mineral elongation) is the angle between horizontal and the fabric, as tested. Load was applied in a vertical direction.

	Report of Flexural Strength of Dimension Stone Testing								
	Test Method: ASTM C 880								
Stone Type									
Sample#	Dry Weight(g)	Span (in.)	Width (in.)	Depth (in.)	Load lbs.	Flexural Strength			
1	3288.4	14.875	3.959	1.287	1243	1421			
2	3314.8	14.875	3.974	1.296	1345	1511			
3	3310.5	14.875	3.970	1.293	1280	1446			
4	3315.1	14.875	3.980	1.292	1261	1424			
5	3310.2	14.875	3.971	1.293	1317	1488			
Avg						1458			

- Specimens were saw-cut for testing by the client.
- Standard deviation 39.9

	Absorption and Bulk Specific Gravity of Dimension Stone								
Test Method: ASTM C97									
Sample	Dry Weight	SSD* Weight	Weight in	Absorption, %	Bulk Specific	Units Weight			
Number			Water	of Dry Weight	Gravity	lbs/cu ft			
A	1114.74	1117.68	694.25	0.26	2.633	164.4			
В	1101.88	1104.79	685.95	0.26	2.631	164.2			
C	1114.02	1116.97	693.72	0.26	2.632	164.3			
D	1119.09	1122.02	696.62	0.26	2.631	164.2			
E	1112.18	1115.06	692.48	0.26	2.632	164.3			
Avg				0.26	2.632	164.3			

^{*}Saturated surface-dry. All weights are in grams.







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	Modulus of Rupture of Dimension Stone Test Method: ASTM C99							
Stone Type	Stone Type: Granite Preconditioning Procedure: Oven Dried							
Sample#	Width (in.)	•	Thickness, (in.)	Breaking Load, Ibs.	Modulus of Rupture, psi			
1	3.97		2.203	4818	2627			
2	3.981		2.198	4586	2504			
3	4.05		2.206	4261	2271			
4	3.957		2.201	4400	2411			
5	3.95 2.201 4558 2502							
Avg	3.982		2.202	4525	2463			

- The rift is the plane on which the rock splits most easily.
- Specimens were saw-cut for testing by the client. There was no discernable rift direction.
 Test span length 7.0 inches









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Blue Sky & Moonlit Rose Granite 2

Client:	Williams Stone Co. Inc.	Project:	Blue Sky & Moonlit Rose Granite
Material:	Blue Sky Gray (Wet)	Project Number:	120116
Source:	Blue Sky Quarry	Lab Number:	12-0231B
Date Sampled:	2/15/2012	Sampled By:	Client
Date Tested:	3/26/2012	Tested By:	Kevin Parrish

	Report of Compressive Strength of Dimension Stone								
	Test Method: ASTM C170								
Stone Type	Stone Type: Granite								
Specimen	Fabric Dip	Height	Width 1	Width 2	Area in ²	Load, lbs	Compressive Strength, psi		
Α	N/A	2.981	2.975	2.984	8.88	183280	20600		
В	N/A	3.064	2.974	3.052	9.08	168350	18500		
C	N/A	2.987	2.970	2.970	8.82	176090	20000		
D	N/A	2.979	2.979	2.991	8.91	193500	21700		
E	N/A	2.965	2.968	3.036	9.01	136260	15100		
Avg		19200							

- All dimensions in inches. Height to width ratio was approximately 1:1.
- Specimens were tested in an air-dry or a saturated condition.
- The dip of the rock fabric (layering and/or mineral elongation) is the angle between horizontal and the fabric, as tested. Load was applied in a vertical direction.

	Report of Flexural Strength of Dimension Stone Testing								
	Test Method: ASTM C 880								
Stone Type									
Sample#	Dry Weight(g)	Span (in.)	Width (in.)	Depth (in.)	Load lbs.	Flexural Strength			
1	3341.6	14.875	3.984	1.301	1233	1372			
2	3308.5	14.875	3.949	1.298	1261	1422			
3	3373.7	14.875	4.025	1.296	1243	1379			
4	3345.6	14.875	3.988	1.299	1206	1344			
5	3331.7	14.875	3.984	1.294	1308	1470			
Avg						1397			

- Specimens were saw-cut for testing by the client.
- Standard deviation 49.5

	Modulus of Rupture of Dimension Stone							
Test Method: ASTM C99								
Stone Type: Granite Preconditioning Procedure: Saturated								
Sample#	Width (in.)		Thickness, (in.)	Breaking Load, Ibs.	Modulus of Rupture, psi			
1	3.986		2.210	3955	2133			
2	3.975		2.209	4057	2196			
3	3.971		2.200	3890	2125			
4	3.977		2.207	3982	2159			
5	3.973		2.199	4075	2227			
Avg	3.976		2.205	3992	2168			

- The rift is the plane on which the rock splits most easily. There was no discernable rift direction.
- Specimens were saw-cut for testing by the client
- Test span length 7.0 inches







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