

Date: June 29, 2005

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3North Natural Stone Products

67 Feather Sound Drive, Henderson NV USA 89052

Attn: Mr. Drew Bauer

Project No.: 3072552

Report No.: 1 Summary

Client No.: 47838

The following summarizes the testing carried on five types of sandstone. The test program included testing for Flexural Strength, Bulk Specific Gravity, Absorption, Abrasion Resistance, Coefficient of Thermal Expansion, Slip Resistance, Shear Bond Strength, and Resistance to Accelerated Freeze-Thaw.

Summary of Results

Flexural Strength (ASTM C880-98)

Stone Type	Average Dry Flexural Strength (psi)	Average Dry Flexural Strength (psi)	Average Wet Flexural Strength (psi)	Average Wet Flexural Strength (psi)
	Load \perp Rift	Load \parallel Rift	Load \perp Rift	Load \parallel Rift
Dark Chocolate	2744	2403	1506	1267
Melbourne	1802	1202	1026	838
Morocco	1281	1312	860	670
Sonoma	950	1245	662	887
Geneva	2898	2814	1932	2055

Absorption and Bulk Density (ASTM C97-02)

Stone Type	Average Absorption (%)	Average Bulk Specific Gravity
Dark Chocolate	2.7	2.4
Melbourne	2.8	2.4
Morocco	5.3	2.2
Sonoma	4.0	2.3
Geneva	1.1	2.6

Abrasion Resistance (ASTM C241-90(1997))

Stone Type	Average Abrasion Resistance
Dark Chocolate	20.88
Melbourne	5.54
Morocco	10.36
Sonoma	8.95
Geneva	21.50

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Coefficient of Thermal Expansion (ASTM C531-00(2005))

Stone Type	Average Coefficient of Expansion (in./in./ ° F)
Dark Chocolate	0.00000694
Melbourne	0.00000769
Morocco	0.00000711
Sonoma	0.00000770
Geneva	0.00000727

Slip Resistance (CAN/CGSB-75.1-M88)

Stone Type	Average Factor of Sliding Friction			
	Leather- Dry	Leather- Wet	Rubber- Dry	Rubber- Wet
Dark Chocolate	0.640	1.182	0.815	1.110
Melbourne	0.850	1.143	1.234	1.200
Morocco	0.706	0.982	1.255	1.100
Sonoma	0.758	1.044	1.121	1.207
Geneva	0.709	0.986	1.055	1.045

Shear Bond Strength (ASTM C482-02)

Stone samples were bonded to freshly poured (let set 1 to 1-1/2 hours before application of stone samples as per standard) high early strength mortar blocks using the supplied Paragon Pro Set Thinset Mortar mixed with the supplied Paragon Thinset Additive using the mix ratio of 1-1/2 gallons (US) of additive to 50 lbs of dry mortar, as per directions on packaging.

Stone Type	Average Bond Strength (psi)
Dark Chocolate	241
Melbourne	153
Morocco	217
Sonoma	126
Geneva	244

Resistance to Freeze-Thaw (ASTM C67-03a)

Stone Type	Average % Weight Loss Due To Cycling
Dark Chocolate	0.07
Melbourne	0.02
Morocco	0.04
Sonoma	0.01
Geneva	0.04

Respectfully submitted,

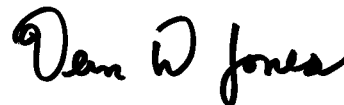
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