

**ASTM F2508 Validation Report**

**Operator** Peter Widas  
**Test Address** 321-C Johnstown Rd, Chesapeake, VA 23322  
**Company** Excel Tribometers, LLC  
**Contact Info** pwidas@exceltribometers.com, 757-897-2853  
**Source of Ref Surfaces** ASTM 2/1/2011 Sticker  
**Date Acquired** Excel Tribometers Set 3 - 2/29/12  
**Validation Test Date** 4/7/2015  
**Validation Temperature** 71°F  
**Validation Humidity** 53%  
**Walkway Tribometer Supplier** Excel Tribometers, LLC  
**Walkway Tribometer Model** English XL VIT  
**Walkway Tribometer Serial Number** XXXXX73  
**Test Foot Number** 3303  
**Test Foot Material** Neolite  
**Test Foot Age (Smithers Manufacture)** 5/23/2014  
**Test Foot Age (Mounted)** 3/30/2015  
**Test Foot Preparation Procedure** Calibrate standard XL VIT test foot per the XL User Guide  
**Test Foot Dimensions (Diameter, in)** 1.25  
**Operating Instructions Version** 4-Jul-12

Highlighted cells follow test foot sanding

Tile	cal N	0.21	cal N	0.23	cal N	0.23	cal N	0.22
0.21±0.03	E	0.21	E	0.22	E	0.21	E	0.22
	S	0.20	S	0.21	S	0.21	S	0.22
	W	0.20	W	0.22	W	0.20	W	0.23
Measurement	Direction	RS-A Granite	diff A-B	RS-B Porcelain	diff B-C	RS-C Vinyl	diff C-D	RS-D Ceramic
1	N	0.11	-0.07	0.18	-0.05	0.23	-0.45	0.68
2	E	0.12	-0.07	0.19	-0.03	0.22	-0.46	0.68
3	S	0.12	-0.07	0.19	-0.03	0.22	-0.44	0.66
4	W	0.12	-0.05	0.17	-0.06	0.23	-0.40	0.63
5	N	0.14	-0.03	0.17	-0.06	0.23	-0.40	0.63
6	E	0.13	-0.05	0.18	-0.08	0.26	-0.39	0.65
7	S	0.13	-0.04	0.17	-0.07	0.24	-0.36	0.60
8	W	0.13	-0.04	0.17	-0.07	0.24	-0.37	0.61
9	N	0.12	-0.05	0.17	-0.09	0.26	-0.42	0.68
10	E	0.11	-0.07	0.18	-0.06	0.24	-0.43	0.67
11	S	0.11	-0.05	0.16	-0.08	0.24	-0.39	0.63
12	W	0.13	-0.04	0.17	-0.09	0.26	-0.37	0.63
13	N	0.13	-0.03	0.16	-0.11	0.27	-0.37	0.64
14	E	0.13	-0.03	0.16	-0.09	0.25	-0.34	0.59
15	S	0.13	-0.05	0.18	-0.08	0.26	-0.35	0.61
16	W	0.12	-0.05	0.17	-0.08	0.25	-0.34	0.59
17	N	0.13	-0.03	0.16	-0.12	0.28	-0.39	0.67
18	E	0.12	-0.05	0.17	-0.11	0.28	-0.38	0.66
19	S	0.12	-0.06	0.18	-0.06	0.24	-0.39	0.63
20	W	0.12	-0.06	0.18	-0.08	0.26	-0.41	0.67
21	N	0.12	-0.06	0.18	-0.10	0.28	-0.39	0.67
22	E	0.12	-0.06	0.18	-0.06	0.24	-0.39	0.63
23	S	0.12	-0.05	0.17	-0.07	0.24	-0.39	0.63
24	W	0.12	-0.04	0.16	-0.07	0.23	-0.44	0.67
25	N	0.13	-0.02	0.15	-0.08	0.23	-0.45	0.68
26	E	0.12	-0.06	0.18	-0.05	0.23	-0.45	0.68
27	S	0.12	-0.05	0.17	-0.07	0.24	-0.40	0.64
28	W	0.12	-0.04	0.16	-0.08	0.24	-0.39	0.63
29	N	0.12	-0.05	0.17	-0.06	0.23	-0.40	0.63
30	E	0.12	-0.05	0.17	-0.07	0.24	-0.39	0.63
31	S	0.12	-0.05	0.17	-0.08	0.25	-0.35	0.60
32	W	0.12	-0.06	0.18	-0.07	0.25	-0.35	0.60
33	N	0.13	-0.03	0.16	-0.10	0.26	-0.39	0.65
34	E	0.12	-0.04	0.16	-0.08	0.24	-0.41	0.65
35	S	0.12	-0.05	0.17	-0.07	0.24	-0.42	0.66
36	W	0.12	-0.05	0.17	-0.09	0.26	-0.42	0.68
37	N	0.12	-0.04	0.16	-0.13	0.29	-0.35	0.64
38	E	0.11	-0.05	0.16	-0.10	0.26	-0.38	0.64
39	S	0.11	-0.04	0.15	-0.09	0.24	-0.37	0.61
40	W	0.12	-0.05	0.17	-0.07	0.24	-0.38	0.62
		RS-A Granite	diff A-B	RS-B Porcelain	diff B-C	RS-C Vinyl	diff C-D	RS-D Ceramic
Mean		0.122	-0.048	0.170	-0.077	0.247	-0.394	0.641
Standard Deviation		0.007	0.012	0.010	0.021	0.017	0.032	0.027
Standard Error		0.001		0.002		0.003		0.004
95th Confidence Lower		0.120		0.167		0.242		0.633
95th Confidence Higher		0.124		0.173		0.253		0.650
Rank	1		2		3		4	
Paired t test		25.072		23.132		78.043		
Rank Order Complies with ASTM F2508-13 Validation Requirements								
Differentiation Complies with ASTM F2508-13 Validation Requirements								
This Validation was performed in accordance with ASTM F2508-13								