

Rotational Penetrometer Surface Testing Report

RESNA Surface – Section 1: Test Method for Firmness and Stability
(Working Draft 2000-11-20)

Test Institution		Rotational Penetrometer	
Name	Beneficial Designs, Inc.	Manufacturer	Beneficial Designs, Inc.
Address	2240 Meridian Blvd., Suite C Minden, NV 89423	Serial number: BDRP-	103
Phone / Fax	ph 775.783.8822/fax 775.783.8823	Date of last calibration	2019-08-15
Operator	P. Schnorbus	Tire pressure set at 36 psi. on	2019-09-27
Data recorder	P. Schnorbus	by	P. Schnorbus Temp. °F 76°

Date & Time of Test		Testing Conditions	
Date	2019-09-27	Temperature °F	76°
Time	10:00 am	Relative Humidity %	30%
If the temperature is more than 10 °F different than the temperature at the tire pressure check, re-inflate tire before starting to test.			

Test Surface		Test Results			
Manufacturer	Brentwood	Record readings to nearest hundredth of an inch (0.000).			
Name	Stormtank Ground Pro - Grass.	Trial	Slope (%)	Firmness (in)	Stability (in)
Type	Subsurface Structure	1		0.3515	0.4195
Source		2		0.4125	0.4885
Date of mfr		3		0.3543	0.4145
Depth	4.25 inch	4		0.3935	0.4585
Slope	0.4%	5		0.3605	0.4225
Location	Beneficial Designs, Inc. Minden, NV	Avg.		0.3745	0.4407
		SD		0.0271	0.0319

Procedures used to install, compact and/or level prior to testing: Excavate to 4.25" below grade Place a base course of 3" compacted #2 road base 70/30 blend as follow - 70% ¾" angular stone aggregate (2B clean crush stone) and 30% topsoil. Place GRS product on top of the compacted base Infill the GRS grid with a Sand / soil (70/30) mixture. Sweep to expose the top of the grid. Place sod on top of the infill. Roll sod in to place. Water and let grow for a minimum of 6 weeks. Mow grass as needed and one day prior to testing.

Method of stabilizing the surface reference plates: The test operator stood on the surface reference plates.

Summary of Results

Beneficial Designs, Inc. received a surfacing sample from **Brentwood** with the brand name **Stormtank Ground Pro - Grass**. This sample of **Stormtank Ground Pro - Grass** had a **firmness** of **0.3745 in.** and **stability** of **0.4407 in.**

Report prepared by: _____
Peter Axelson, Testing Supervisor

4 October 2019
Date