## Beneficial Designs Inc.

# **Instrumented Surface Indenter Testing Report**

ASTM Designation: FXXXX-XX Work Item Number: 2019-07-16 subcommittee ballot of Standard Test Method for a Portable Instrumented Surface Indenter for Measurement of Firmness and Stability

	Test Institution	Rotational Penetrometer	
Name	Beneficial Designs, Inc.	Manufacturer Beneficial Designs, Inc.	
Address	PO Box 69	Serial number: BDRP- 101	
	Minden, NV 89423	Date of last calibration 2019-12-10	
Phone	775.783.8822	Tire pressure set at 36 psi. on 2020-10-09	
Operator	Emery Schreckengost	by <u>E. Schreck</u> Temp. °F <u>75</u>	

Data recorder Emery Schreckengost

**Test Surface** 

Date & Time of Test		Testing Cor	Testing Conditions	
Date	2020-10-09	Temperature °F	75	
Time	2:30 pm	Relative Humidity %	11	
If the temperatur		If the temperature is more than 10 °F di	fferent than the temperature at	

If the temperature is more than 10 °F different than the temperature at the tire pressure check, re-check tire pressure before starting to test.

### **Test Results**

#### Record readings to nearest thousandth of an inch (0.001). Manufacturer Kafka Granite Wax Polymer Pathway Mix Trial Firmness (in) Stability (in) Name Stabilized Surface Type 1 0.1600 0.1770 0.1580 Source Kafka Granite 2 0.2270 Date of mfr 3 0.1800 0.1820 unknown Depth 4.25 inch 4 0.1730 0.2380 Slope 1.6 % 5 0.1600 0.1640 Location 1493 Willow Creek Ln 6 0.1620 0.1740 Gardnerville, NV 7 0.1490 0.2295 The high and low readings for firmness and stability 0.1979 Avg. 0.1626 are both removed. The remaining five values for 0.0279 SD 0.0060 firmness and stability are averaged.

Procedures used to install, compact and/or level prior to testing: See attached

Method of stabilizing the surface reference plates: Operator stood on the reference plates

### Summary of Results

Beneficial Designs, Inc. received a surfacing sample from Kafka Granite with the brand name Wax Polymer Pathway Mix. This sample of Wax Polymer Pathway Mix had a firmness of 0.1626 in. and stability of 0.1979 in.

Report prepared by:

Peter Axelson, Testing Supervisor

14 October 2020 Date