BIOMECHANICA

Test Report

Area Elasticity of Brock Underlayment

Test Date: 12/03 **Report Date:** 1/14/04

Client: Dan Sawyer, Brock USA

The purpose of this test was to determine whether a Brock underlayment used beneath an infilled synthetic turf surface system has “load-spreading” capabilities equivalent to that of a crushed rock substrate.

The area elasticity of Brock and crushed rock materials were determined using mechanical compression tests.

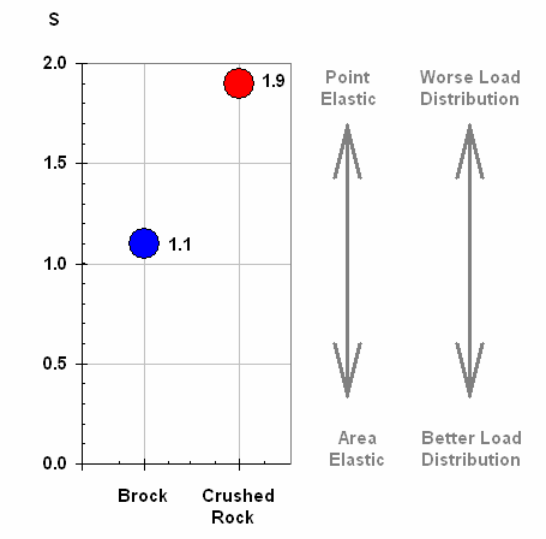
Crushed rock was found to have near perfect ‘point elastic properties, i.e. loads on the surface are localized and load spreads very little beyond the point of application.

The Brock underlayment had more general elastic properties and is consequently more effective at spreading load.

Samples: (1) Brock Underlayment
(1) Laboratory crushed rock substrate

Methods: See attached “Notes on the Characterization of Area Elastic Effects in Sports Surfaces”.

Results:



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