STRI

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PHYSICAL CHARACTERISTICS OF COMPACTED ROOTZONE MATERIALS TESTED TO USGA PROCEDURE*

CLIENT: HUGH KING & CO LTD	RESULTS TO: MAB
	SAMPLE NO: A8672/2
ADDRESS: HULLERHILL SAND QUARRY, KILWINNING,	DATE RECEIVED: 11/06/10
AYRSHIRE KA13 7QN	DATE REPORTED: 19/06/10
DESCRIPTION: RZ50 90/10	TEST RESULTS AUTHORIZED BY:
CONDITION UPON ARRIVAL: MOIST	Michael Baines, Laboratory Manager

			USGA Guidelines	UK Golf Guidelines
	Saturated Hydraulic Conductivity (mm/hr)	469	Minimum 150 mm/hr	≥150 mm/hr
	Total Porosity (%)	40.8	35-55 %	≥35%
At 30 cm Tension	Air-filled Porosity (%)	15.8	15-30 %	≥14%
At 30 cm Tension	Capillary Porosity (%)	25.0	15-25 %	≥17%
	Bulk Density (g/cc)	1.57		
	Particle Density (g/cc)	2.66		
	Organic Matter Content (%)**	0.3		0.5-3.5%
At 40 cm Tension	Air-filled Porosity (%)	Not tested	Not Applicable to USGA or UK Golf Guidelines	
At 40 cm Tension	Capillary Porosity (%)	Not tested		

THESE RESULTS PERTAIN ONLY TO THE SAMPLE(S) SUBMITTED AND TESTED

* ASTM F1815-06 Standard Test Methods for Saturated Hydraulic Conductivity, Water Retention, Porosity and Bulk Density for Putting Green and Sports Turf Rootzones. Note: Diameter of the cylinders used is 72 mm rather than the 51 or 76 specified in ASTM F1815-06

** ASTM F1647-02a Standard Test Methods for Organic Matter Content of Putting Green and Sports Turf Rootzone Mixes (Method A)

ACCREDITED
Testing Certificate 2159 - 01