

## PHYSICAL CHARACTERISTICS OF COMPACTED ROOTZONE MATERIALS TESTED TO USGA PROCEDURE\*

CLIENT: ROFFEY BROTHERS	RESULTS TO: MAB
	SAMPLE NO: A12486/3
ADDRESS: THROOP ROAD, THROOP, BOURNEMOUTH BH8 0DF	DATE RECEIVED: 18/02/14
	DATE REPORTED: 26/02/14
DESCRIPTION: ROFFEY DWS STRAIGHT	TEST RESULTS AUTHORIZED BY:
CONDITION UPON ARRIVAL: MOIST	Michael Baines, Laboratory Manager

		USGA Guidelines	UK Golf Guidelines
At 30 cm Tension	Saturated Hydraulic Conductivity (mm/hr)	942	Minimum 150 mm/hr
			≥150 mm/hr
	Total Porosity (%)	40.1	35-55 %
			≥35%
	Air-filled Porosity (%)	20.4	15-30 %
			≥14%
At 40 cm Tension	Capillary Porosity (%)	19.7	15-25 %
			≥17%
	Bulk Density (g/cc)	1.58	
	Particle Density (g/cc)	2.64	
	Organic Matter Content (%)**	0.1	
			0.5-3.5%
	Air-filled Porosity (%)	NOT TESTED	Not Applicable to USGA or UK Golf Guidelines
	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)

