

ANALYSIS REPORT
SCC Accreditation No.: 40‡

Mr. Dave Martin

Date: January 15, 2018

Quantum Group of Companies

Report: 4189-003S-1A-en

IDENTIFICATION: Polyurea membrane on a Typar geotextile: .
 Received: December 13, 2017

STANDARD:

TEST: Large Scale Hydrostatic Puncture Testing of Geosynthetics ASTM D5514/D5514M-14 Proc.A

TEST CONDITIONS: Conditioning atmosphere: 21±2°C, 65±10% R.H.;
 Testing area: 0.283 m²; Diameter of test specimens: 600 mm;
 P = Pass, F = Fail;
 Pressure increase rate: 1psi/30 min ;
 Date of test: December 19, 2017 to January 9, 2018


RESULTS:	Individual Data			Avg.	S.D.	% CV
Thickness (in):	0.090	0.087	0.078	0.085	0.006	7.3
Cone height (in):	2.0	2.0	2.5			
Observation (Pass or Fail):	Pass	pass	pass			
Maximum pressure reached (psi):	60	60	60			
Thickness (in):	0.074	0.084	0.089	0.082	0.008	9.3
Cone height (in):	2.5	2.5	3.0			
Observation (Pass or Fail):	Fail	Fail	Fail			
Maximum pressure reached (psi):	6.0	12	15			
Critical cone height (CCH) (in):	2.5	2.5	3.0	2.7	0.3	10.8

REMARKS: -The test was conducted with the geotextile side against the cones.
 -The product is spray-applied membrane, and exhibits local thickness variation. The values reported for thickness were measured in the vicinity of the cone.

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Date: January 15, 2018

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