

TECHNICAL REPORT

Laboratory Tests for Football Synthetic Turf

Report Number: LSIND-R19003-A2

Project: LSIND005 – Maverick Turf

Date(s): 28/01/2019

This report contains 5 pages in total.

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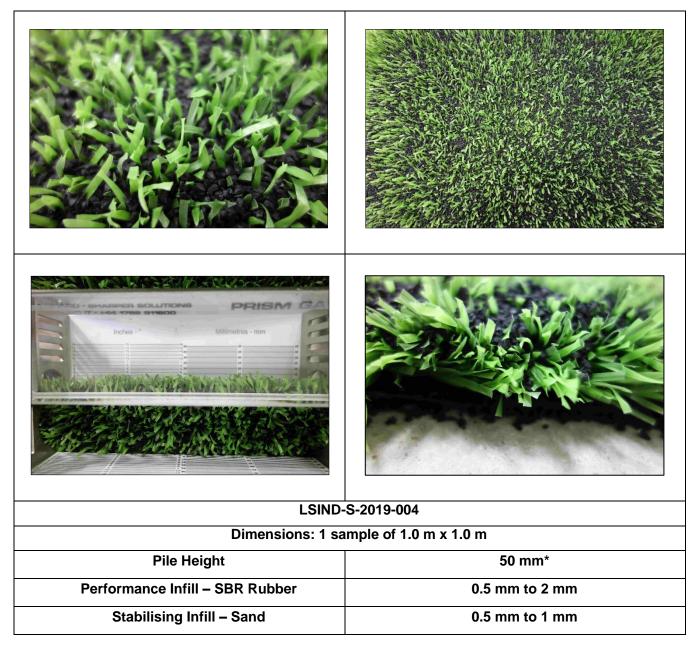
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1. CLIENT DETAILS

Company:Maverick Turf SDN BHDAddress:AL 182A, Kampung Baru Sg Buloh,
Selangar Darul Ehsan, Malaysia – 47000.

2. PRODUCT INFORMATION



*information provided by the client



3. TESTS PROGRAM

Tests methods and technical requirements criteria considered in this report refer to the below standards:

- Product Identification

 Mass per unit area 	ISO 8543
 Pile length above backing 	ISO 2549
 Pile weight 	ISO 8543
 Tufts per unit area and gauge 	ISO 1763
 Water permeability 	EN 12616:2003
Shock Absorption	(FIFA Test Method 04a)
Vertical Deformation	(FIFA Test Method 05a)
Rotational Resistance	(FIFA Test Method 06)
Vertical Ball Rebound	(FIFA Test Method 01)

All the results reported here reflect the performance of the sample(s) received only.

Tests are realized in laboratory where temperature and air humidity are controlled:

- Temperature: 21.4°C
- Air Humidity: 51 %
- Surface: Dry

Samples were tested in accordance with the manufacturer's instructions as reported below:

- Product sample has been laid on concrete.
- Preparation of sample with infill rates as 8 kg/m² of sand & 13 kg/m² of SBR rubber.



4. PERFORMANCE RESULTS

a) Product Identification of the Carpet

i) Mass per unit area

LSIND-S-2019-004	Result		
Mass per unit area	2,327 g/m²		

ii) Pile length above backing

LSIND-S-2019-004	Result	
Pile length above backing	50.3 mm	

iii) Pile weight

LSIND-S-2019-004	Result		
Pile weight	628 g/m²		

iv) Tufts per unit area and gauge

LSIND-S-2019-004	Result		
Tufts per unit area	9,300 /m²		
Stitch gauge	5/8 inch		

v) Water permeability

LSIND-S-2019-004	Result		
Water permeability	2,555 mm/h		



b) Shock Absorption

Point	1	2	3	Average
LSIND-S-2019-004	58.7 %	58.5 %	58.1 %	58.4 %

*For information, FIFA Quality Requirements: 57 % - 68 %

c) Vertical Deformation

Point	1	2	3	Average
LSIND-S-2019-004	8.8 mm	8.8 mm	8.8 mm	8.8 mm

*For information, FIFA Quality Requirements: 6 mm - 11 mm

d) Rotational Resistance

Point	1	2	3	Average
LSIND-S-2019-004	34 Nm	35 Nm	34 Nm	34 Nm

*For information, FIFA Quality Requirements: 27 Nm – 48 Nm

e) Vertical Ball Rebound

Point	1	2	3	Average
LSIND-S-2019-004	0.90 m	0.91 m	0.90 m	0.90 m

*For information, FIFA Quality Requirements: 0.60 m - 1.0 m

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