FieldTurf®
A Tarkett Sports Company

Quattro - ProMax HydroFlex

Long term simulated use test
300,000 cycles Lisport Wear Test according to EN 15306

Test Report N° EN-K3688

1. Client / fabricator

FieldTurf Tarkett SAS
1 Terrasse Bellini – Tour Initiale
92919 Paris La Defense

France

2. Type of test

Simulated use test for 300.000 cycles using a Lisport wear tester of an artificial turf surface according to EN 15306.

3. Test Details

Start of the test procedure:	21.05.2020
End of the test procedure:	23.07.2020
Prepared by	M. A. Matthias Schucht
Test status	In Progress

4. Test Specimen

Artificial turf surface FieldTurf Quattro 45-16

(Sample ID: 2020 - 081)

Sample: 4.0 x 1.0 m (received 24.02.2020)

Stabilising Infill – Sand (No. of sample 2020 - 156)

Grain size: 0.250 – 0.8 mm

Amount of sample: ca. 500 kg

Receipt of sample: 31.03.2020

Performance Infill – ProMax HydroFlex (No. of sample 2018 - 301)

Grain size: 1.0 – 2.5 mm

Amount of sample: ca. 100 kg

Receipt of sample: 13.12.2018

Retained samples are kept in the laboratory. The results in this test report are only according to the Prepared sample itself, as well as to the individual parts.

5. Details of the prepared sample

Artificial turf surface FieldTurf Quattro 45-16 filled with Sand and ProMax HydroFlex granular.

6. Climate test parameters

The requirements of DIN EN ISO 291 23/50 for climate test parameters have been met.

7. Testing

The tests were carried out according to DIN EN 15330-1 published December 2013 for football artificial turf surfaces. The test has been performed at Laboratory Lehmacher | Schneider.

- Simulated Use (DIN EN 15306)

Fig. 1: Lisport Wear tester at the laboratory

8. Test Results - Photo documentation

8.1. Results/Photo documentation - Original/Before Start

Fig. 2: FieldTurf Quattro Original/before start

Fig. 3: FieldTurf Quattro Original/before start

8.2. Results/Photo documentation after 50,000 cycles at the Lisport wear tester

Fig. 4: FieldTurf Quattro after 50.000 Cycles at the Lisport tester

Fig. 5: FieldTurf Quattro after 50.000 Cycles at the Lisport tester

No visible damage to the fibres after 50.000 Cycles at the Lisport tester unchanged position of the fibres.

8.3. Results/Photo documentation after 100.000 Cycles at the Lisport tester

Fig. 6: FieldTurf Quattro after 100.000 Cycles at the Lisport tester

Fig. 7: FieldTurf Quattro after 100.000 Cycles at the Lisport tester

No visible damage to the fibres after 100.000 Cycles at the Lisport tester, predominantly vertical position of the fibres after brushing.

8.4. Results/Photo documentation after 150.000 Cycles at the Lisport tester

Fig. 8: FieldTurf Quattro after 150.000 Cycles at the Lisport tester

Fig. 9: FieldTurf Quattro after 150.000 Cycles at the Lisport tester

No visible damage to the fibres after 150.000 Cycles at the Lisport tester, predominantly vertical position of the fibres after brushing.

8.5. Results/Photo documentation after 200.000 Cycles at the Lisport tester

Fig. 10: FieldTurf Quattro after 200.000 Cycles at the Lisport tester

Fig. 11: FieldTurf Quattro after 200.000 Cycles at the Lisport tester

No visible damage to the fibres after 200.000 Cycles at the Lisport tester, predominantly vertical position of the fibres after brushing.

8.6. Results/Photo documentation after 250.000 Cycles at the Lisport tester

Fig. 12: FieldTurf Quattro after 250.000 Cycles at the Lisport tester

Fig. 13: FieldTurf Quattro after 250.000 Cycles at the Lisport tester

No visible damage after 250.000 Cycles at the Lisport tester predominantly vertical position of the fibres after brushing.

8.7. Results/Photo documentation after 300.000 Cycles at the Lisport tester

Fig. 14: FieldTurf Quattro after 300.000 Cycles at the Lisport tester

Fig. 15: FieldTurf Quattro after 300.000 Cycles at the Lisport tester

No visible damage after 300.000 Cycles at the Lisport tester predominantly vertical position of the fibres after brushing.

9. Evaluation - Assessment

During the test of simulated use featuring 300,000 cycles at the Lisport wear tester according to EN 15306 the artificial turf surface FieldTurf Quattro filled with ProMax HydroFlex granular showed no visible damage to the fibres. At the end of the simulated use test most of the fibres were mostly in a vertical position after brushing.

The test results exclusively relate to the test specimen.

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Test Report N° EN-K3688 contents 11 pages.

Osnabrück July 24th 2020

Dipl.-Ing. O. Schneider
Managing Director

DAkkS
Deutsche
Akkreditierungsstelle
D-PL-18702-01-00

DIN EN ISO/IEC 17025 by DakkS accredited test laboratory. The accreditation covers the test methods displayed on the certificate.

Matthias Schucht M.A.
Supervising Test Engineer

End of test report EN-K3688