



FIFA FIELD TEST REPORT

Stadium / location		
Product name		
FIFA Licensee		
FIFA accredited Test Institute		
Field Test report identification	Type of test	Re-Test, Two Star
	Test number	
Date of test		

1 – Introduction / Process Overview	3
2 – Test Object, Participants	4
2.1 Test numbers	
2.2 Test Object, (stadium/location, artificial turf, maintenance requirements)	
2.3 Parties involved, Addresses (applicant, tests institute, certifying body)	
3 – Test Conclusion, Field Approval	5
3.1 Approval, final test result	
3.2 Criteria that failed, if any	
3.3 Summary of general aspects tested / inspected	
3.4 Test dates / weather conditions / field surface	
3.5 Comments	
4 – Detailed Test Results	8
4.1 Product identification	
4.2 Overview – ball and player to surface interactions	
4.3 Ball / surface interaction	
4.4 Player / surface interaction	
4.5 Explanatory graphs / pictures	
4.5.1 Playing field, test positions / directions	
4.5.2 Playing field, sprinklers (if applicable), surface undulations	
4.5.3 Maintenance equipment (photo report)	
4.5.4 Test positions (Advanced artificial athlete)	

Football Turf Field Test Report (Re-Test, Two Star)

1 – Introduction / The Process of Certification

In order to be certified, football turf fields must reach the performance and quality criteria established to be as close as possible to playing characteristics of natural grass. To this end, each field must undergo four steps as outlined below:

- a thorough composition and resilience test of the product in the laboratory (step 1)
- the installation of the product as declared, applying the outlined procedures (step 2)
- a test of the final installation for the relevant characteristics of the field as a whole system (step 3)
- if successful, certification as FIFA 1 STAR or FIFA 2 STAR field (step 4)

After expiration of the certificate, the field can be retested (step 3/4)

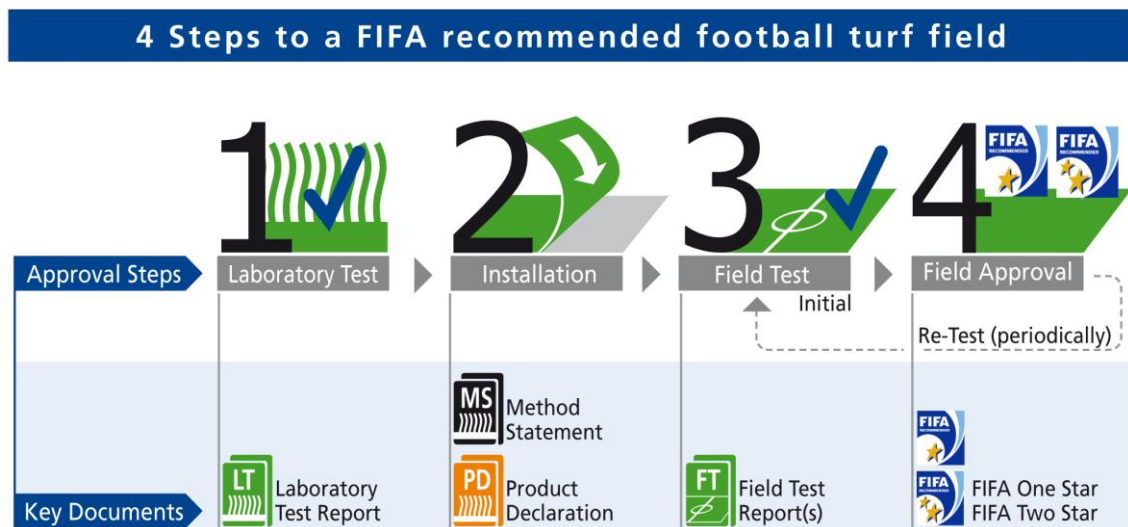
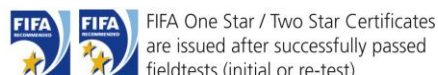


Fig. 1.2 Approval process steps and the related documents / parties

Legend:



This process is part of the FIFA Quality Concept for Football Turf in order to

- replicate the playing qualities of good quality natural grass,
- create a playing environment that does not increase the risk of injury to players
- achieve adequate durability (providing it is properly maintained)

For more details on FIFA Quality Concept for Football Turf see www.fifa.com.

This document covers the complete steps 3/ FIFA FIELD TESTS REPORT (Re-Test). Consider:

- The tests are performed on site by a FIFA accredited test institute
- The test report is only valid if reproduced in its entity
- The results are only valid for the complete Football Turf described in this report




IMPORTANT:

- This report classifies the related field as FIFA Recommended Two Star (or One Star) certified
- In defined intervals, the field has to be retested to maintain the certificate.



This FIFA LABORATORY TEST REPORT may only be used in relationship to Football Turf fields that are going to be submitted for certification under the *FIFA Quality Concept of Football Turf*. Any other use of this report is a violation of the report's copy right which is held by FIFA and breaches the terms of the FIFA Quality Concept of Football Turf licensing agreement.

Football Turf Field Test Report (Re-Test, Two Star)


2 – Test Object, Participants

2.1 Test Numbers					
 Report Identification	Type of test	RE-TEST			
	Field Test report number				
	Related Laboratory Test No.				
	Related PD / MS existing yes/no (Y/N)	Product Declaration (PD)		Method Statement (MS)	
Test Institute Project No.					
2.2 Test Object					
 Stadium / location	Name				
	Address City / Country				
	Contact	Phone		email	
	Club (if applicable)				
 Artificial Turf	Product Name				
	Product ID				
	Manufacturer				
	Installation	Date			
	Dates of tests (dd,mm,yyyy)	Initial test			
Last test					

2 – Test Object, Participants

2.3 Parties involved, Addresses					
Applicant Site Owner  	Name				
	Address				
	Contact	Phone		email	
FIFA accredited Test Institute	Name				
	Address				
	Contact	Phone		email	
	Project	No.			
Laboratory Director	Name				
FIFA accredited Engineer on site	Name				
Other Test Engineers on site	Name				
	Name				
Test report and approval request originated by	Name			Signature	
	Date				

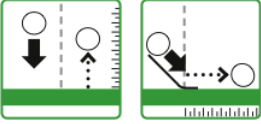
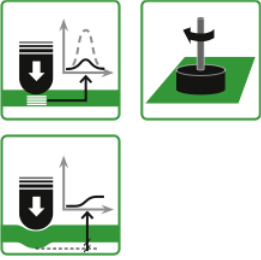


3 – Test Conclusion, Field Approval

3.1 Approval, final test result		
 FIFA Two Star	The presented field / site has the given FIFA FIELD TEST requirements	«passed» or «failed»

Confirmed by		
Director of the FIFA assigned Test Institute	Name	
	Date	
		Signature
Approved by		
FIFA Accredited Engineer on site	Name	
	Date	
		Signature

Football Turf Field Test Report (Re-Test, Two Star)



3 – Test Conclusion, Field Approval

3.2 Criteria that failed, if any:		
	Criteria	Failed
	Ball / Surface interaction	
	Vertical ball rebound	<input type="checkbox"/>
	Ball roll	<input type="checkbox"/>
	Player / Surface interaction	
	Shock absorbency	<input type="checkbox"/>
	Rotational resistance	<input type="checkbox"/>
	Deformation	<input type="checkbox"/>
	Maintenance equipment on site	
	Tractor unit	<input type="checkbox"/>
	Drag brush	<input type="checkbox"/>
	Drag mat	<input type="checkbox"/>
	Top up infill material	<input type="checkbox"/>
	Ball roll ramp	<input type="checkbox"/>
	Up to date maintenance log	<input type="checkbox"/>
	Sprinkler System on site	
	Conformity	<input type="checkbox"/>
	Construction requirements	
	Regularity	<input type="checkbox"/>
	Consistency of site and laboratory materials	<input type="checkbox"/>
	Field documents	
	Product declaration and method statement not presented	<input type="checkbox"/>

Comments

Football Turf Field Test Report (Re-Test, Two Star)

3 – Test Conclusion, Field Approval



3.3 Summary of general aspects tested / inspected					
		Item	YES	NO	
	Maintenance equipment on site	Tractor Unit	<input type="checkbox"/>	<input type="checkbox"/>	
		Drag	Brush	<input type="checkbox"/>	<input type="checkbox"/>
			Mat	<input type="checkbox"/>	<input type="checkbox"/>
			Ball roll ramp	<input type="checkbox"/>	<input type="checkbox"/>
			Up to date maintenance logbook	<input type="checkbox"/>	<input type="checkbox"/>
			Other (describe)	<input type="checkbox"/>	<input type="checkbox"/>
	Maintenance material on site	Top up infill material	<input type="checkbox"/>	<input type="checkbox"/>	
	Sprinkler System on site	a) Sprinklers within playing field / run-offs	<input type="checkbox"/>	<input type="checkbox"/>	
		b) if a) YES:	<ul style="list-style-type: none"> • additional - shock absorption and - deformation tests OK? • append - test results - Plan with sprinkler / test positions 	<input type="checkbox"/>	<input type="checkbox"/>
		>> see 4.5.2			

3.4 Test dates / weather conditions / field surface				
Date(s) of test	Day 1:		Day 2:	
Surface condition (dry or wet)				
Surface temperature [°C]	Min.		Min.	
	Max.		Max.	
Ambient temperature [°C]	Min.		Min.	
	Max.		Max.	
Humidity [%RH]	Min.		Min.	
	Max.		Max.	
Maximum wind speed [m/s] (during ball / surface interaction tests)	Ball rebound			
	Ball roll			

3.5 Comments

Football Turf Field Test Report (Re-Test, Two Star)

4 – Detailed Test Result

4.1 Product identification									
 Artificial Turf		Positions, related results / variations (plan see 4.5.1)						Mean	P= passed F= failed P/F
		1	2	3	4	5	6		
Product Declaration (Licensee)									
Pile length (mm)									
Stitch gauge (mm)									
Tufts per 100 mm	Values								
	Correlation Mean / Declaration						(%)		
Tufts calculated per unit area	Values								
	Correlation Mean / Declaration						(%)		
 Performance Infill		Positions, related results / variations (plan see 4.5.1)						P/F	
		1	2	3	4	5	6		
Declared Range (Licensee)									
Largest sieve retaining at least 10% of infill									

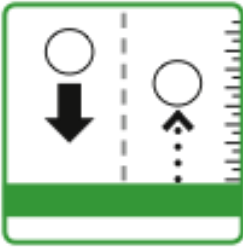




Comments:

Football Turf Field Test Report (Re-Test, Two Star)

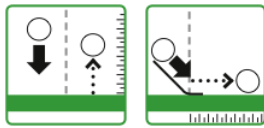
4 – Detailed Test Results

4.2 Overview – ball and player to surface interactions

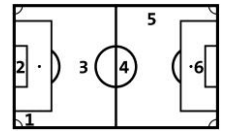
How is the field to play? By means of the following 8 parameters, this question can be answered very well. Furthermore, some values allow conclusions regarding maintenance in order to keep the field in top shape.

Parameter	Comments / hints	Parameter	Comments / hints
1- Vertical ball rebound 	<p>The higher the value the higher the ball will rebound. The ball should not bounce too high or too low.</p> <p>Ball / surface interaction</p>	4- Shock absorption 	<p>Shock absorbcency is an indicatic of how hard the field feels to th player. A value that is too lo indicates a hard field and cau damage to player’s joints too so and the surface is energy sappir resulting in increases in fatigu and over-use injuries.</p> <p>Player / surface interaction</p>
2- Ball roll 	<p>The higher the value the faster the ball will run over the surface. The ball should not be too fast or too slow.</p> <p>Ball / surface interaction</p>	5- Deformation 	<p>A surface that deforms too much will result in overstretching of ligaments particularly the around the ankle.</p> <p>Player / surface interaction</p>
3- Rotational resistance 	<p>This simulates the player’s ability to alter direction, too high a value and stress can occur across knee ligaments, too low and the player will not be able to grip the sur-face and may slip causing ligament damage.</p> <p>Player / surface interaction</p>		

4 – Detailed Test Results



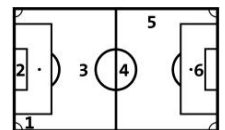
4.3 Ball / surface interaction



		Positions / test results (see plan appendix 4.5.1)						FIFA Specification P= passed F= failed	
Property		1	2	3	4	5	6		P/F
Vertical ball rebound								0.6 – 0.85 m	
Ball roll								4.0 – 10.0 m	



4.5 Player / surface interaction



		Positions / test results (see plan appendix 4.6.1)						FIFA Specification P= passed F= failed	
Property		1	2	3	4	5	6		P/F
Rotational resistance								30– 45 Nm	

Football Turf Field Test Report (Re-Test, Two Star)



4.5 Player / surface interaction

Positions / test results (see plan appendix 4.5.4)											FIFA Specification P= passed F= failed	
Property	A	B	C	D	E	F	G	H	I	J		P/F
Shock absorption											60 – 70 %	
	K	L	M	N	O	P	Q	R	S			
											60 – 70 %	



4.5 Player / surface interaction

Positions / test results (see plan appendix 4.5.4)											FIFA Specification P= passed F= failed	
Property	A	B	C	D	E	F	G	H	I	J		P/F
Deformation											4.0 – 10.0 mm	
	K	L	M	N	O	P	Q	R	S			
											4.0 – 10.0 mm	

4.5 Explanatory graphs / pictures

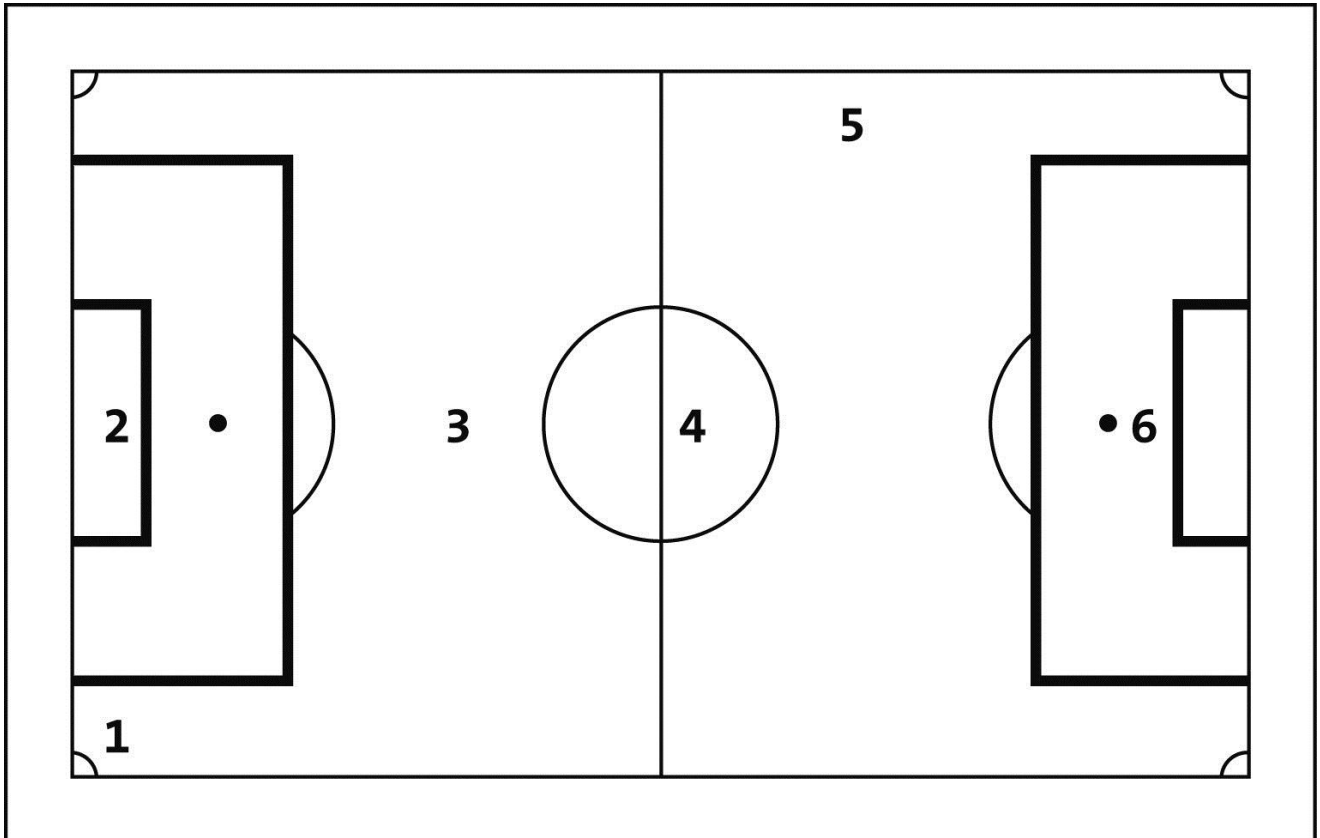
- 4.5.1 Playing field, test positions / directions
- 4.5.2 Playing field, sprinklers (if applicable), surface undulations
- 4.5.3 Photo report maintenance equipment

4 – Detailed Test Results

4.5 Explanatory graphs / pictures

4.5.1 Playing field, test positions / directions

Mark orientations on the drawing:



Comments:

Football Turf Field Test Report (Re-Test, Two Star)

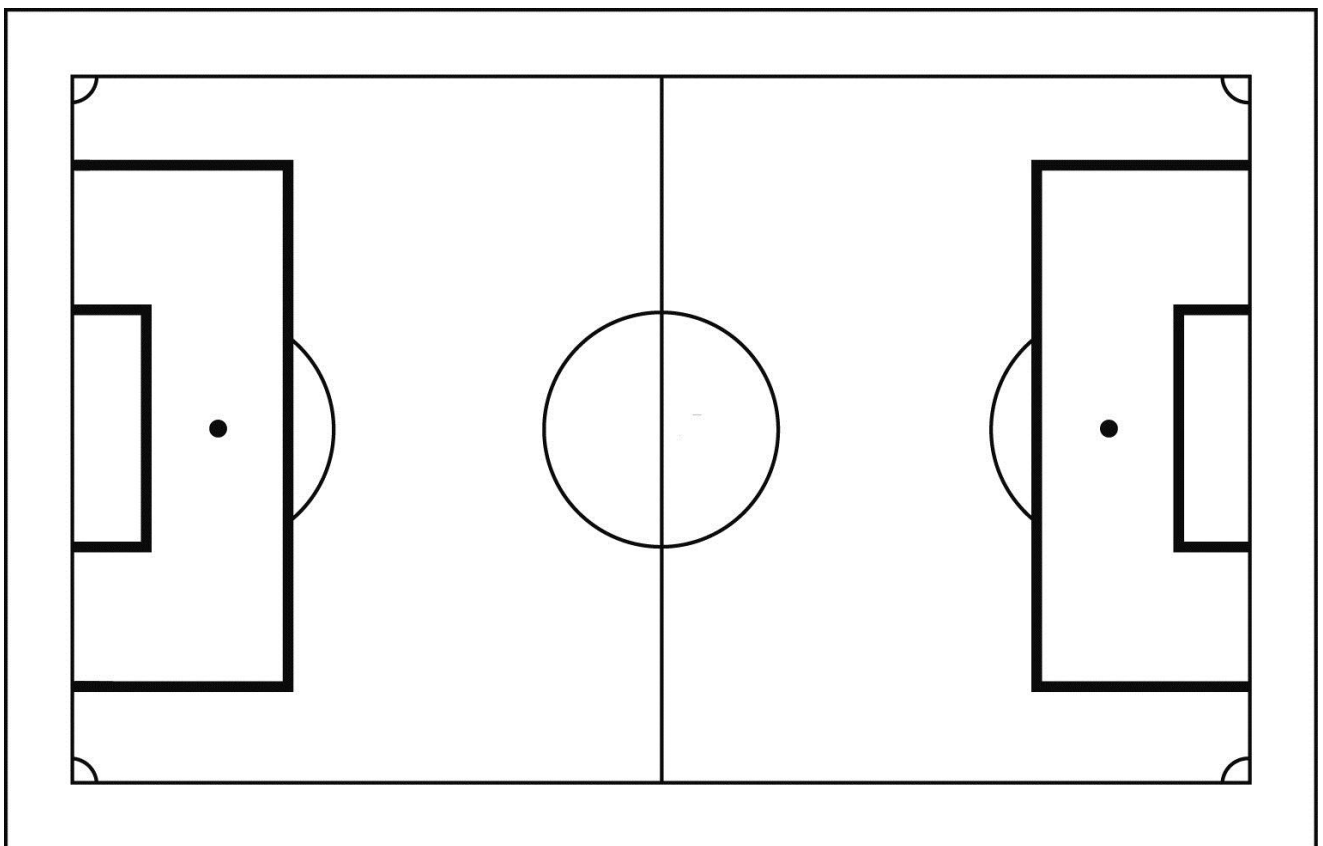
4 – Detailed Test Results

4.5 Explanatory graphs / pictures

4.5.2 Playing field, sprinklers (if applicable), surface undulations, pitch dimensions

- Sprinklers** (if applicable)
- mark sprinkler positions on field / run offs (**O**)
 - mark test positions for additional shock absorbance / deformation tests
 - shock absorption and deformation tests OK?
 - add test results to this appendix or below

- Undulations** (> 10mm)
- mark localization (**X**)
 - record magnitude



Comments

4 – Detailed Test Results

4.5 Explanatory graphs / pictures

4.5.3 Maintenance equipment (photo report)

		Page:	of:

Comments:

Football Turf Field Test Report (Re-Test, Two Star)

4 – Detailed Test Results

4.5 Explanatory graphs / pictures

4.5.4 Test positions (Advanced artificial athlete)

