Technical Construction File

TCF No.: GL-12001281 / 18.December.2012

Certificat Holder:	Wuxi Greenlawn Co., Ltd.
Address:	No.12,Xinhui Road,Beitang District,Wuxi,China
Manufacturer:	Wuxi Greenlawn Co., Ltd.
Address:	No.12,Xinhui Road,Beitang District,Wuxi,China
Equipment Name:	Artificial Grass
Equipment All Model:	G006
Major Model:	G006
Reviewed By :	yefeng chen
Prepared By:	Wuxi Greenlawn Co., Ltd.
Controlled by:	Beijing United Standard Product Testing & Technical Service Co.,Ltd No.2109,Building 401, Wang Jing Yuan, Chapyang District, Beijing City, China

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Part I: Description Of The Product

Equipment Name: Artificial Grass

Equipment All Model: G006

EUT Photographs

FULL VIEW PHOTO OF THE EQUIPMENT



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Part II: EN 15330-1:2007 Test Report

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	TEST REPORT		
	Test Report No.: GL-1213		
Certificat Holder:	Wuxi Greenlawn Co., Ltd.		
Address:	No.12,Xinhui Road,Beitang District,Wuxi,China		
Manufacturer:	Wuxi Greenlawn Co., Ltd.		
Address:	No.12,Xinhui Road,Beitang District,Wuxi,China		
Equipment Name:	Artificial Grass		
Equipment All Model:	G006		
Major Model:	G006		
Test Standards:	EN 15330-1:2007		
Test Engineer:	SHAOHUA DING		
Verify Engineer:	LIN CHEN		
Test Date:	13.December.2012		
Issuance Date:	17.December.2012		

This test report was conducted at the lab of Beijing TIRT Technology Service Co.,Ltd.

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Test item		
Description :	Artificial Grass	
Trademark :	NO	
Model and/or type reference:	G006	
Multi-Models: differ from model	NO	
for size only		
Flame retardation:	PASS	
ESD properties:	PASS	
Manufacturer:	Wuxi Greenlawn Co., Ltd.	

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Clause	Requirement ↑ Test	Result - Remark	Verdict
1	Scope		
2	Normative references		_
3	Terms and definitions		
4	General		
4.1	Resistance to artificial weathering		_
4.1.1	Colour fastness		
7.1.1	When tested in accordance with EN 20105-A02		Р
	following artificial weathering in accordance with		'
	EN 14836,the change in colour of the weathered		
	synthetic turf compared with an unaged test		
	specimen of the synthetic turf shall be Grey Scale		
	4 or greater.		
4.1.2	Tensile strength		
	When tested in accordance with EN 13864		Р
	following artificial weathering in accordance with		'
	EN 14836, the tensile strength of the pile yarn(s)		
	used to form the synthetic turf pile shall be within		
	50 % of the tensile strength of the unaged yarn.		
4.2	Water permeability		_
	When tested in accordance with EN 12616, the		Р
	water infiltration rate of surfaces designed to be		
	permeable shall be equal to or greater than 180		
	mm/h.		
4.3	Joint strength		_
4.3.1	Stitched joints		_
11011	When tested in accordance with Method 1 of EN		Р
	12228:2002, following immersion in hot water in		'
	accordance with EN 13744, the strength of		
	stitched joints shall be equal to or greater than 1		
	000 N/100 mm.		
4.3.2	Bonded joints		_
	When tested in accordance with Method 2 of EN		Р
	12228:2002, following immersion in hot water in		
	accordance with EN 13744, the strength of bonded		
	joints shall be equal to or greater than 25 N/100		
	mm except that, for surfaces intended for rugby,		
	the minimum joint strength shall be 100 N/100 mm.		
4.4	Abrasion resistance of non-filled surfaces		-
	When tested in accordance with EN 13672, the		Р
	percentage mass loss after 2 000 cycles shall be		
	equal to or less than 2 %.		
5	Surfaces designed primarily for hockey		N/A

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Clause	Requirement	Result - Remark	Verdict
•	Occidence de discondución collectivo (collectivo)		N1/A
6	Surfaces designed primarily for football		N/A
7	Surfaces designed primarily for rugby union		N/A
8	Surfaces designed primarily for tennis		N/A
9	Surfaces designed for multi-sports use		-
9.1	General		
	Synthetic turf surfaces designed for multi-sports		Р
	use shall conform to the requirements given in		
	clause 4 and those in 9.2 to 9.7.Test pieces shall		
	be prepared in accordance with EN 12229 and the		
	manufacturer instructions prior to testing.Wet test		
	pieces shall be prepared in accordance with the		
	procedure given in Annex C.		
9.2	Vertical ball rebound		-
9.2.1	General		-
	The surface shall conform to the requirements		Р
	given in 9.2.2, 9.2.3 or 9.2.4, as appropriate,		
	depending on the sports to be played on the		
	surface.		
9.2.2	Football and/or rugby		-
	When tested in accordance with EN 12235 using a		Р
	football under both dry and wet conditions, the		
	vertical ball rebound shall be between 45 % and 85		
	%.		
9.2.3	Hockey		-
	When tested in accordance with EN 12235 using a		Р
	hockey ball under both dry and wet conditions, the		
	vertical ball rebound shall be less than 90 %.		
9.2.4	Tennis		-
	When tested in accordance with EN 12235 using a		Р
	tennis ball under both dry and wet conditions, the		
	vertical ball rebound shall be greater than 80 %.		
9.3	Ball roll		-
9.3.1	General		-
	The surface shall conform to the requirements		Р
	given in 9.3.2 or 9.3.3, as appropriate, depending		
	on the sports to be played on the surface.		
9.3.2	Football		-
	When tested in accordance with EN 12234 using a		Р
	football under both dry and wet conditions, the ball		
	roll shall be between 5,0 m and 10,0 m.		
9.3.3	Hockey		_

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Clause	Requirement ↑ Test	Result - Remark	Verdict
			1
	When tested in accordance with EN 12234 using a		Р
	hockey ball under both dry and wet conditions, the		
	ball roll shall be between 5,0 m and 15,0 m.		
9.4	Shock absorption		-
	When tested in accordance with EN 14808 under		Р
	both dry and wet conditions, the shock absorption		
	shall be classified as in Table 2.		

Table 2 — Classification of shock absorption for multi-sports surfaces

Force reduction (%)	Classification
15 to 24	SA 1
25 to 34	SA 2
35 to 44	SA 3
45 to 54	SA 4
55 to 60	SA 5
61 to 80	SA 6
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NOTE 1 If football is the priority sport, the shock absorption should be Class SA5 or SA6.

NOTE 2 For general sports training (non-contact), hockey and physical education, the shock absorption should typically be Class SA3 or SA4.

NOTE 3 If tennis is to be played, the shock absorption should typically be Class SA1 or SA2.

NOTE 4 If rugby is to be played on the surface, the shock absorption should be Class SA6.

Clause	Requirement ↑ Test	Result - Remark	Verdict
9.5	Rotational resistance		-
9.5.1	Surfaces designed for the use of studded		-
	footwear		
	When tested in accordance with EN 15301-1,		Р
	using the studded test foot under both dry and wet		
	conditions,the rotational resistance shall be		
	between 25 Nm and 50 Nm.		
9.5.2	Surfaces designed not for the use of studded		-
	footwear		
	When tested in accordance with EN 15301-1,		Р
	using the dimpled rubber test sole profile under		
	both dry and wet conditions, the rotational		
	resistance shall be between 25 Nm and 50 Nm.		
9.6	Angled ball behaviour		-
	The angled ball behaviour of multi-sports surfaces		Р
	designed for tennis shall conform to 8.3.		
9.7	Resistance to simulated use of surfaces		-
	designed to allow the use of studded footwear		

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Clause	Requirement	Result - Remark	Verdict
	Following simulated use conditioning for 5 200		Р
	cycles in accordance with EN 15306 using the		F
	studded rollers, the surface shall conform to the		
	requirements (i.e. have the same classification) as		
	in 9.2.2, 9.4 and 9.5.		
	Following simulated use conditioning for 12 200		Р
	cycles in accordance with EN 15306 using the		F
	studded rollers, the vertical ball rebound, shock		
	absorption and rotational resistance values of the		
	surface when measured using the test methods		
	detailed in 9.2.2, 9.4, and 9.5 shall be recorded		
	and provided by the manufacturer or supplier (see		
	clause 10).		
	Separate tests specimens shall be used to assess		Р
	the effects of 5 200 cycles and 12 200 cycles		
	simulated use.		_
	As the size of the test pieces produced by the		Р
	apparatus described in EN 15306 is smaller than		
	the test pieces specified in EN 12234, EN 14808		
	and EN 15301-1, the test pieces used shall		
	conform to the requirements given in EN 15306.		
	No test shall be carried out within 50 mm of the		
	edge of the test piece or within 50 mm of where		
	another test has been carried out.		
10	Information to be provided by the		-
	manufacturer or supplier		
	The manufacturer or supplier shall supply at least		-
	the following information:		
	a) number and date of this European Standard, i.e.		Р
	EN 15330-1:2007;		
	b) manufacturer's or supplier's identification;		
	c) complete identification of the surface, together		
	with the supporting layers, and in-fill (see AnnexF);		
	d) results of the tests relevant to the type of		
	surface being supplied.		

_____End of this report______

Part III:Declaration of Conformity

EC Declaration of Conformity

WE, Wuxi Greenlawn Co., Ltd.

No.12,Xinhui Road,Beitang District,Wuxi,China

Product Type: Artificial Grass

Product Model: G006

The product has been assessed by the application of the following standards:

EN 15330-1:2007

Issue place and date

Company stamp and Signature

of authorized personnel

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