UEFA TEST CERTIFICATE

For all tests hereafter, refer to the UEFA-Football-Turf-Manual
Season 2003-2005

Turf system producer	XL Generation AG			
Turf product (brand name)	XL 2 stars			
Turf product (code)	THPEDI273001134AM160EPPM2S			
Test applicant (address, phone, e-mail)	XL Generation AG Sumpfstrasse 32 6300 Zug, CH	Tel 41 41 723 10 90 Fax 41 41 710 16 48 fvachon@xlgeneration.ch		

TURF COMPOSITION								
Product / System declaration of the turf manufacturer, refer to pages 3 to 5								
Tuft A	Pile fibre 1	5		PE, fibrillated, straight	72 mm	1 strand		
Tult A	Pile fibre 3 Pile fibre 3 Pile fibre 3	Number of		mm	strands			
Tuft B	Pile fibre 3	retc le fi	Number of strands	PE, fibrillated, curly TXT	73 mm	1 strand		
Tuit B	Pile fibre 4	St le bil			mm	strands		
Number of tufts per m ² and total fibre weight				27 300 per m ²	2 395 gr./ m ²			
Stabilisation infill			mm	kg / m²				
Shock	absorbing i	nfill		Black SBR Rubber	10 mm	3,66 kg / m ²		
Height of fibres above infill			II		24 mm			
Total height and weight of the turf product			34 mm	3,78 kg / m ²				
Elastic pad / shock absorbing layer			ing layer	EPP Foam	15 mm	0,75 kg / m ²		

FOOTBALLISTIC AND TECHNICAL TURF CHARACTERISTICS: LABORATORY TESTS

L/	REDITED TEST ABORATORY	UEFA TURF - PRODUCT - SYSTEM				
Name	LABOSPORT	RE	REGISTRATION			
Date	2004/02/08	Date	2 nd August 2004			
Number	R04-0859	Number	U - 078 / 04 / XG - 03			
Signature	D. BOISNARD	Signature	Chief Executive			

The tested turf-system complies with the UEFA - laboratory requirements. This test certificate is only valid with all pages numbered from 1 to 5.



FOOTBALLISTIC CHARACTERISTICS: LABORATORY TESTS

	Footh	alliatia	Boquired		Toot	LIEEA		
Footballistic			Required	Test	Test	UEFA		
	charact	teristics	values	conditions	results	compliance		
	Studded			dry	71	Recommendation		
_	foot	1 st impact		wet	72			
	Flat foot	i ilipaci		dry	70			
<u>.</u> <u>ō</u>				wet	68	Necommendation		
달	Studded		> 60 %	dry	68			
ᄝ	foot	Mean		wet	69			
ē		2 nd /3 rd impact		dry	66	Pass		
ø				wet	65	1 400		
Force reduction	Flat foot	Mean 2 nd /3 rd impact			50	Pass		
ш		4 St :	> 50 %	minus 5°C	56			
	Studded foot	1 st impact			64			
	Studded			dry	11.6			
l o	foot	1 st impact	4 - 10 mm	wet	11.1	Recommendation		
it ig	Flat foot	i iiipact		dry	9.4			
tic 13				wet	10.2			
Vertical deformation	Studded			dry	7.6			
e <	foot	Mean 2 nd /3 rd impact	4 - 8 mm	wet	7.8			
ō	Flat foot	•		·		dry	6.6	Pass
	1 101 1001			wet	6.8	1 400		
Rota	tional resis	stance	30 – 45 Nm	dry	32	Pass		
Notational resistance			30 - 45 14111	wet	30			
			dry	80	Pass			
Ball rebound			60 – 85 cm	wet	82			
				minus 5°C	93	Recommendation		
Football pace			45 - 60 %	dry	56	Pass		
Ball	roll	Actual ball roll	5 – 8 m	dry	6.8	Pass		
Dali Iuli		/ totaar bair roil	0 - 0 III	wet	7.2	1 033		

FIELD TEST REGISTRATION AND TEST VALIDITY									
Country			City		Nan	ne of the fiel	d Inst	Installation date	
Test laboratory						The tested field complies with the UEFA requirements			
Field test	Dat	е	Number	Sign	ature	Date	Number	Signature	
Initial test									
1 st renewal									
2 nd renewal									

Note: This certificate is only valid for the above-mentioned field for a maximum period of 2 (two) years from the date of the last field test.



INFRASTRUCTURE CHARACTERISTICS							
Base layer							
Bearing layer	Dagawintian						
Infrastructure permeability							
Soil heating	Description						
Water irrigation system							
Slope							

FOOTBALLISTIC CHARACTERISTICS										
FIELD TESTS										
				1177						
	Footballistic		Required	-		t posi		_	Pitch	UEFA
Cl	naracteristic	cs	values	1	2	3	4	5	mean	compliance
	Studded foot	1 st	no							 Recommendation
_	Flat foot	impact	requirement							Necommendation
Force reduction	Studded foot	Mean 2 nd /3 rd	> 60 %							
Force	Flat foot	impact								
	Studded foot	1 st	4 40							
tion	Flat foot	impact	4 - 10 mm							Recommendation
Vertical deformation	Studded foot	Mean 2 nd /3 rd	4 0							
Verd	Flat foot	impact	4 - 8 mm							
Rotational resistance 30 – 45 Nm										
Ball r	ebound	60	– 85 cm							
Ball r	oll	5 –	8 meter							
Eveni	ness		/ 4 meter							
The lov	The pitch mean result is the mean of the five test locations. The lowest mean value for each series of tests is shown in red. The highest mean value for each series of tests is shown in blue. Each of the lowest and the highest results at the 5 locations shall meet the UEFA requirements.							iromonto		
Conditioning of toots areas							iaii mee	ı ıne		mements.
(cross to show if conditioning is used or not)					Yes 🗆		No 🗆			
Air temperature during test programme					minimum °C		maximum	°C		
Surface temperature during test programme				minir		°C	RH	maximum	°C % RH	
Humidity during test programme Test surfaces									maximum	wet 🗆
Wind speed					dry □ moist □ wet □ Ball roll m / h					WEL -
Willia Specu										

To respect the confidentiality of manufacturers and their production procedures, the product declarations (pages 4 and 5) are not included.

Please contact the "turf system producer" directly for the original certificate (the 5 full pages).

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