



## **TECHNICAL REPORT**

Technical evaluation of a synthetic turf product.  
Desso iDNA X50-16 SBR on Ultrabase.

Report Number **R14423CAN-A1**

Client **UltraBaseSystems Inc.**

Date **August 20<sup>th</sup> 2014**

*This report contains 4 pages in total.*

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**LABOSPORT CANADA**

5661, rue de Lanaudière, Suite 200, Montréal (Québec) H2G 3A5 CANADA

contact@labosport.ca

Tel. +1 514 277 9111 • Fax. +1 514 277 9112

[www.labosport.ca](http://www.labosport.ca)

**DESCRIPTION OF THE PRODUCT TESTED**

Name of the product		DESSO iDNA X50-16 SBR ON ULTRABASE	
Sample number		TURF: CAN0001420	SAND: CAN0001421
		ULTRABASE: CAN0001286	RUBBER: CAN0001422
Date of the tests		JUNE/JULY/AUGUST 2014	
Artificial grass			
Name of the turf carpet/code		DESSO iDNA X50-16	
Pile height		50 MM	
Infill			
Infill		Manufacturer	
Rubber	SBR	NOT SUBMITTED	
Sand	SILICA SAND	NOT SUBMITTED	
Layer	Infill	Recipe (kg/m <sup>2</sup> )	
Upper	SBR	8.5 KG/M <sup>2</sup>	
Lower	SILICA SAND	17 KG/M <sup>2</sup>	
Approx. Infill depth (mm)		32 MM	
Shock-pad			
Name		ULTRABASE	
Composition		PREFABRICATED PANEL	
Thickness		19.5 MM	
Type of base underneath the system tested		UNBOUND AGGREGATE	
Geotextile			
Name		TENCATE HP270	

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**RESULTS**

All the tests were performed on an unbound aggregate base.

Property	Test method	Condition	Units	Results	Requirements FIFA1*	Requirements FIFA2*
<b>Shock Absorption</b>	AAA	New	%	<b>64</b>	<b>55-70%</b>	<b>60-70%</b>
		5,200 Lisport cycles	%	<b>62</b>		
		20,200 Lisport cycles	%	<b>56</b>		
<b>Vertical Deformation</b>	AAA	New	mm	<b>9.5</b>	<b>4.0-11.0 mm</b>	<b>4.0-10.0 mm</b>
		5,200 Lisport cycles	mm	<b>9.0</b>		
		20,200 Lisport cycles	mm	<b>7.5</b>		
<b>Rotational Resistance</b>	EN 15330-1	New	Nm	<b>34</b>	<b>25-50 Nm</b>	<b>30-45 Nm</b>
		20,200 Lisport cycles	Nm	<b>40</b>		
<b>Vertical Ball Rebound</b>	EN 12235	New	m	<b>0.72</b>	<b>0.60-1.00 m</b>	<b>0.60-0.85 m</b>
		20,200 Lisport cycles	m	<b>0.77</b>		
<b>Head Injury Criteria</b>	EN1177 – HIC1000	New	m	<b>1.17</b>	<b>N/A</b>	<b>N/A</b>
		20,200 Lisport cycles	m	<b>1.14</b>		

**REPORTED BY:**

Mickaël Benetti, T.P.  
(Lab Manager) - Writer

Guillaume Loubersac  
(Director) - Approver

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**LISPORT 20,200 CYCLES**

Exposition	General view	Flatness	Fibrillation
0 cycle			
5,000 cycles			
10,000 cycles			
15,000 cycles			
20,000 cycles			