

TEST REPORT

Laboratory tests on artificial turf systems

Tests performed according to the standards listed in the quote Q22026 CAN

Report Number R22026CAN-A1

Product

TTII PLAY-IT-COOL
Target Technologies International

Client

John B Giraud,
Target Technologies International Inc. 8535 Eastlake Drive, Burnaby BC V5A 4T7

Date

February 25th, 2022

This report contains 5 pages in total. Reproduction of this report is authorized only in its entire form. Results reported are valid only for the products tested. To declare the conformity (or not), the uncertainty of the results was not taken into account. Detailed results are available on request.

LABOSPORT, THE WORLD LEADING SPORTS SURFACES EXPERT

LABOSPORT CANADA • contact@labosport.com • (514) 277-9111
5661 Rue De Lanaudière • Montréal • Québec • H2G 3A5 • Canada

www.labosport.com



INFORMATION

Product description	Artificial turf filled with performance infill and/or sand		
Infill Sample number	TTII PLAY-IT-COOL CAN004353	Generic SBR CAN003472	
Date of reception	February 2022		
Date of the tests	February 2022		
LABORATORY CONDITIONS			
Temperature (°C)	21 - 23	Humidity (%)	48 - 50
CONFIGURATIONS TESTED			
System number	A		B
Synthetic turf Infill depth	Synthetic turf + TTII PLAY-IT-COOL – 1 ½" (39 mm)		Synthetic turf + GENERIC SBR – 1 ½" (39 mm)



CAN004353 – System A overview



CAN003472 – System B overview

PREAMBLE

The following testing was performed to determine the relative effect infill can have on the surface temperature of a synthetic turf system. Simulating the heat coming from the sun, each sample was exposed to infra-red heat lamps. Only the nature of infill varied between system A and B. The resulting temperatures were observed and recorded.

RESULTS

HEAT TEST – FIFA TEST METHOD 14

	Category 1	Category 1 – 2	Category 2	Category 2 – 3	Category 3
Temperature range	< 122°F	122 - 129°F	131 - 138°F	140 - 149°F	> 149°F
	< 50°C	50 - 54°C	55 - 59°C	60 - 65°C	> 65°C

Product	Condition	Maximum Surface temperature	FIFA Category
System A (TTII PLAY-IT-COOL)	Dry	132°F (56°C)	2
	Wet	108°F (42°C)	1
System B (SBR)	Dry	140°F (60°C)	2 - 3
	Wet	124°F (51°C)	1 - 2

DENSITY

Property	Sample	Unit	Result
Bulk Density -EN 1097-3	CAN004353 (TTII PLAY-IT-COOL)	g.cm ⁻³ (lb.ft ⁻³)	1.584 (98.89)

COMMENTS

When tested dry, System A (TTII PLAY-IT-COOL) displayed a final temperature 4°C lower than system B.

When tested wet, System A (TTII PLAY-IT-COOL) displayed a final temperature 9°C lower than system B.

Therefore, in the conditions presented in introduction, System A (TTII PLAY-IT-COOL) reached lower final temperatures than the system B (with SBR and sand infill).

NOTE ON WETTING PROCEDURE

Wetting of the sample is based on FIFA Method (FIFA – Handbook of Test Method 2015 – V3.0) for preparing systems: The system is immersed, by applying at least the same volume of water as the volume of the whole system (turf + infill). For such a system, (50cm x 50cm (2.7 ft²) with 39 mm (1 ½") infill depth), the amount of water to be used should be no less than 10 L (22 lb.)

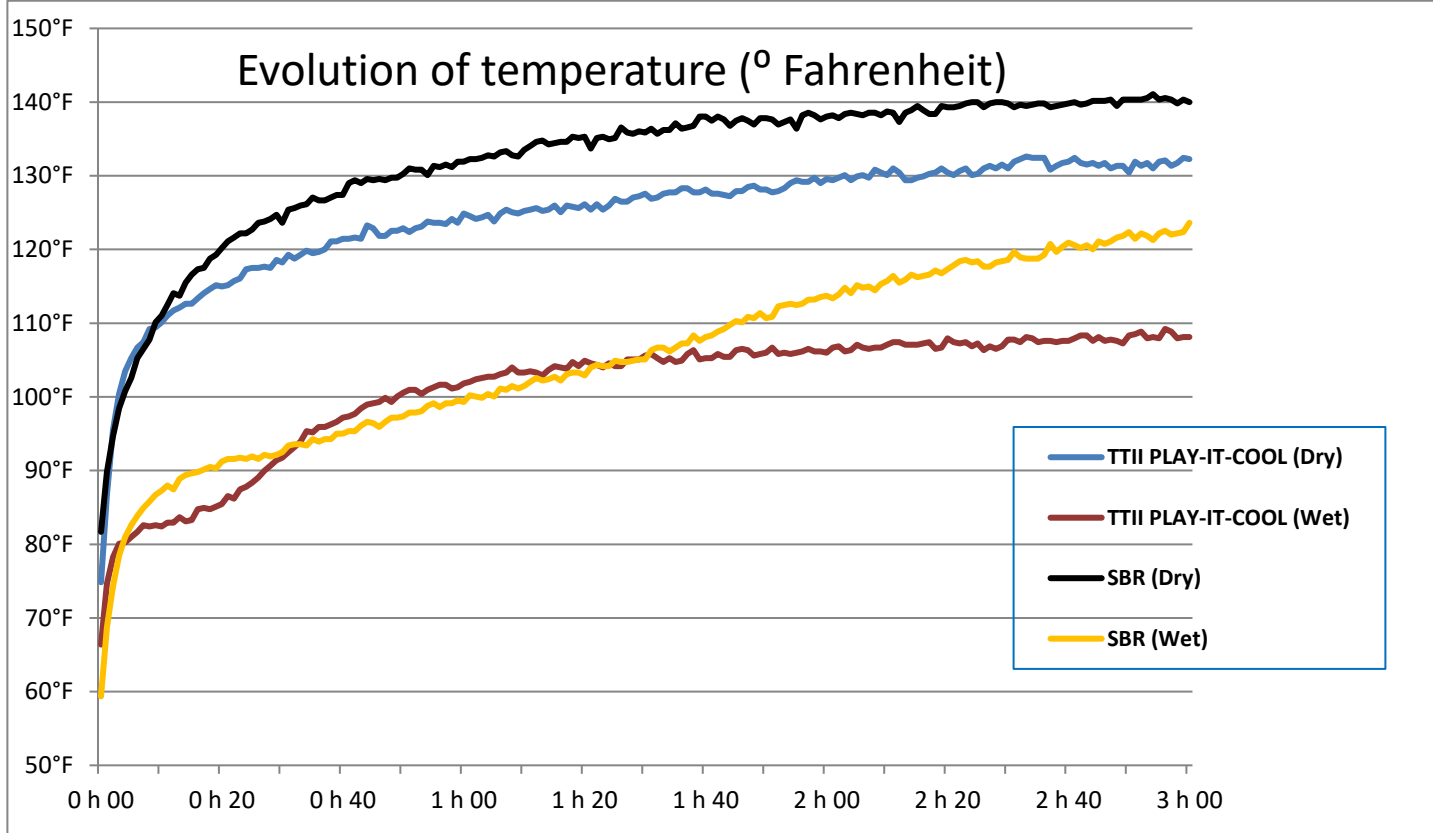
REPORTED BY

Jad MAAZOUZI
(Laboratory Technician) - Writer

Maxime FAVÉ
(Lab Manager) – Writer/Approver

ANNEX

HEAT measurement curves (Fahrenheit):



HEAT measurement curves (Celsius):

