LABOSPORT

TEST REPORT

Laboratory tests on an infill material for artificial turf system

Tests performed according to the standards listed in the quote Q23414CAN

Report Number	**R23414CAN-B1**
Product	**TTII NATURE'S INFILL 10-20** Target Technologies International Inc.
Client	**John B. Giraud,** Target Technologies International Inc. 8535 Eastlake Drive, Burnaby BC V5A 4T7
Date	**June 16th, 2023**

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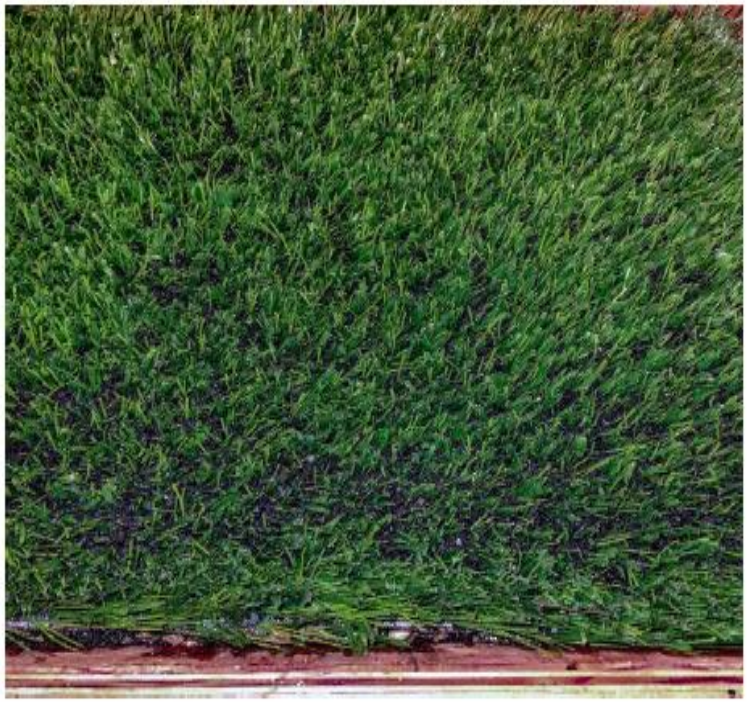
INFORMATION

Product description	Artificial turf filled with performance infill and sand			
Product name	Synthetic turf with TTII NATURE'S INFILL 10-20 Infill depth: 1''(29mm) CAN004850		Synthetic turf + sand & generic SBR Infill depth: 1 ½ ''(39mm) CAN003472	
Date of reception	May 2023		June 2023	
Date of tests	June 2023		June 2023	
Temperature	MIN	22°C	MAX	24°C
Humidity	MIN	49 %	MAX	51 %

CAN004850 – System A –
TTII NATURE'S INFILL 10-20



CAN003472 – System B – Generic SBR system

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
CAN004850-A *TTII NATURE'S INFILL 10-20*	**Dry**	**123°F** (51°C)	**1-2**
CAN003472-B *Generic SBR*	**Dry**	**140°F** *(60°C)*	**2-3**
CAN004850-A *TTII NATURE'S INFILL 10-20 INFILL*	**Wet**	**95°F** (35°C)	**1**
CAN003472-B *Generic SBR*	**Wet**	**124°F** (51°C)	**1-2**

When tested dry, System A (TTII NATURE'S INFILL 10-20) displayed a final temperature 9°C (17°F) lower than the generic SBR system B considered.

When tested wet, System A (TTII NATURE'S INFILL 10-20) displayed a final temperature 16°C (29°F) lower than the generic SBR system B considered.

Therefore, in the conditions presented in introduction, System A (TTII NATURE'S INFILL 10-20) reached lower final temperatures than the system B – generic SBR system.

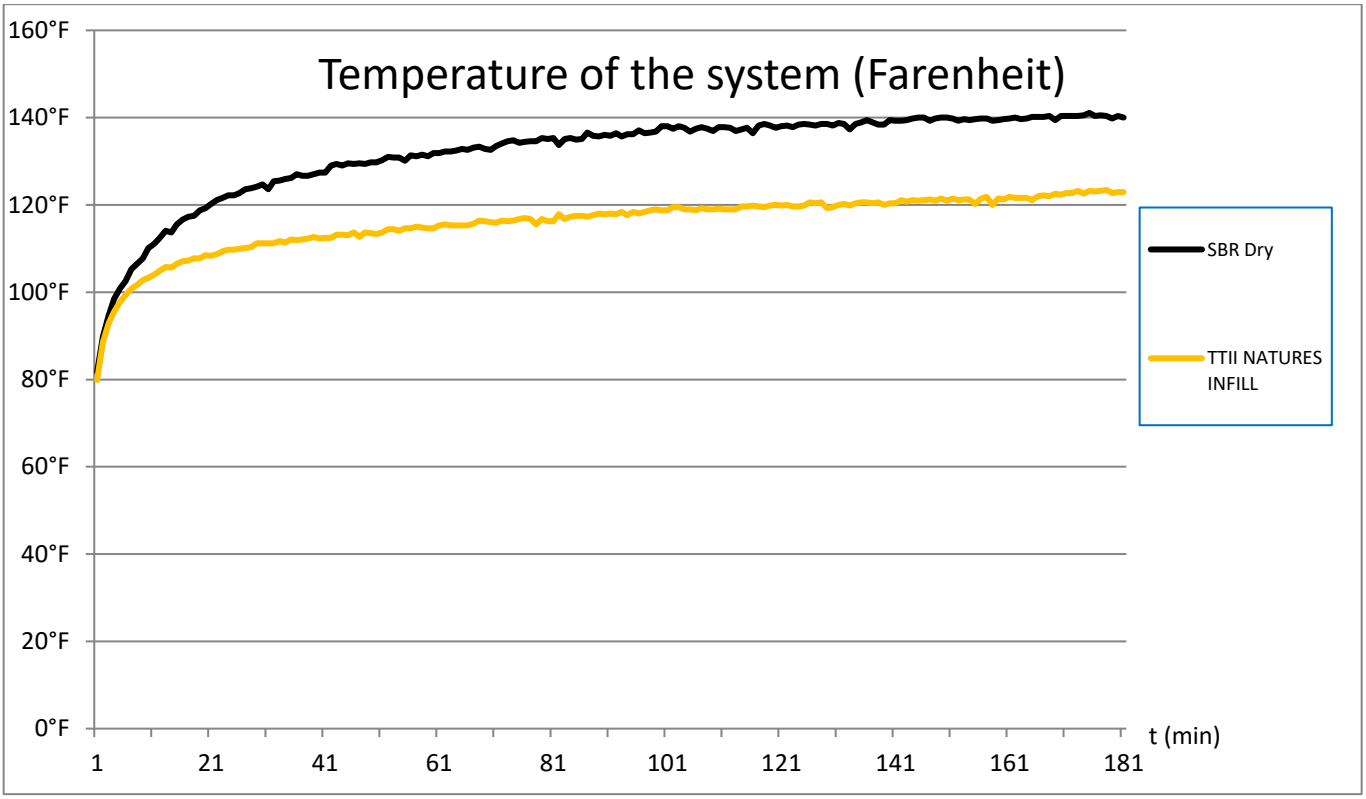
REPORTED BY

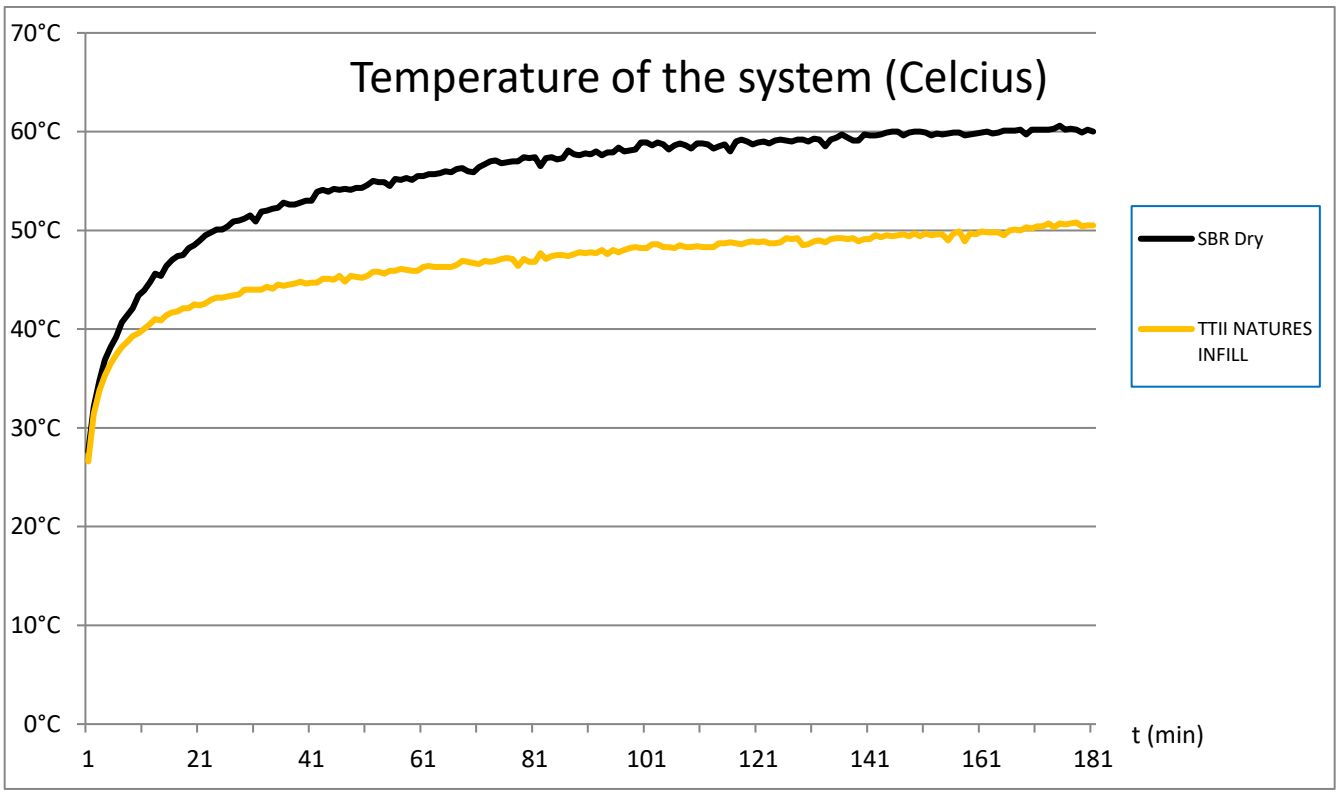
Jad MAAZOUZI
(Sports Surfaces Engineer) - Writer

Maxime FAVÉ
(Director of Operations) - Approver

APPENDIX

Dry - HEAT measurement curves (Fahrenheit/Celcius):





Wet - HEAT measurement curves (Fahrenheit/Celcius):