



# LABOSPORT

## TEST REPORT

### Laboratory tests on an infill material for artificial turf system

Tests performed according to the standards listed in the quote Q23068CAN

Report Number **R23068CAN-A1**

Product **TTII SafeGuard Colour Coated Green Infill**  
Target Technologies International Inc.

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

Date **March 23<sup>rd</sup>, 2023**

*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.*



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## INFORMATION

Product description	Artificial turf filled with performance infill and /or sand			
Product name	Synthetic turf with TTII SafeGuard Colour Coated Green Infill Infill depth: 1" (25mm) CAN004800 System A		Synthetic turf + sand & generic SBR Infill depth: 1 ½ " (39mm) CAN003472 System B	
Date of reception	March 17 <sup>th</sup> 2023		February 2022	
Date of tests	March 2023		February 2022	
Lab temperature	MIN	22°C	MAX	24°C
Lab humidity	MIN	49 %	MAX	51 %



CAN004800 – System A (SafeGuard Infill) overview (top) and close-up (bottom)



CAN003472 – System B (Generic SBR + Sand) overview (top) and close-up (bottom)



## 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
CAN004672*--A- SafeGuard System	Dry	122°F (50°C)	2
CAN003472-B-Generic Sand + SBR system	Dry	141°F (61°C)	3
CAN004800- A- SafeGuard System	Wet	112°F (45°C)	1
CAN003472-B-Generic Sand + SBR system	Wet	146°F (64°C)	2-3

\*Results were extracted from report R22637CAN-D1 (identical system)

## COMMENTS

For both conditions (wet and dry) the **TTII SafeGuard Colour Coated Green Infill system displayed a lower maximum surface temperature** than the generic system with sand and SBR presented above.

When tested dry, System A TTII SafeGuard Colour Coated Green Infill system displayed a maximum temperature 11°C lower than system B (Please consult the table above for Fahrenheit results).

When tested wet, System A TTII SafeGuard Colour Coated Green Infill system displayed a final temperature 19°C lower than system B. (Please consult the table above for Fahrenheit results).

## REPORTED BY

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Wet - HEAT measurement curves:

