



UNIVERSITY OF NORTH CAROLINA SPORTS



Natural Grass

CORKONUT™  
by GREEN PLAY®



AIR TEMPERATURE  
90° F

IMAGE TAKEN ON  
SEPTEMBER 9, 2017 • 3PM  
WILMINGTON, NC



# INFILL SYSTEM TEMPERATURE EVALUATION

*SPORTSLABS USA (AUG 4, 2015)*

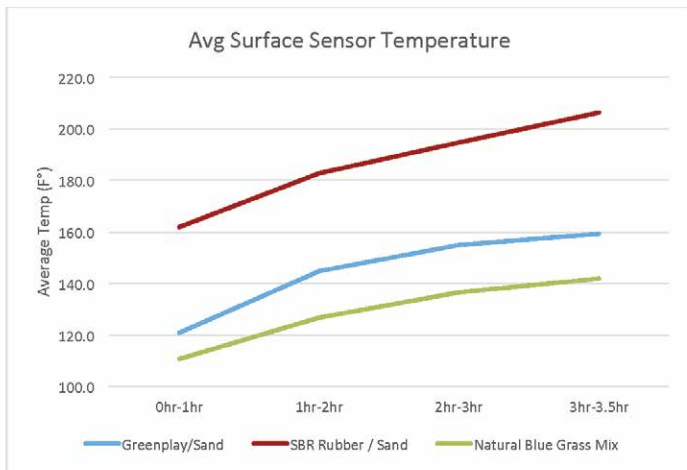
**Heat test data acquisition** to evaluate infill temperature comparison between Greenplay, crumb rubber & natural grass

Procedure:

The following sensors were used to capture and record measurements to a digital data logger every 60 seconds:

- (2) thermo-couples mounted in series to provide a 2 point average of the surface temperature.
- (2) Infra-red thermo-couples aimed at the sample to register fibre temperature.
- (1) thermo-couple placed inside of the infill for heat transfer across the performance layer.

Average Surface Sensor Temperature per Time Period					
Average Temperature (F°) per Sensor Type					
Exposure Time Period	Greenplay/ Sand	Temp Difference	SBR Rubber / Sand	Temp Difference	Natural Blue Grass Mix
0hr-1hr	120.9	41.1	161.9	51.2	110.7
1hr-2hr	144.8	38.1	182.9	56.1	126.8
2hr-3hr	155.0	39.7	194.7	58.0	136.7
3hr-3.5hr	159.3	47.0	206.3	64.4	141.9



**Surface Result:** After 3.5 hrs. of controlled heat, Greenplay was found to be 47°F cooler than SBR rubber and within 20°F of natural grass.