



**Professional
Testing
Laboratory
Inc.**

March 18, 2019

John Karr
Turf Cushion
Dalton GA 30721

RE: Second Bounce PTS-SF 099 A & B

Dear Mr. Karr,

Per your request, a test installation was completed on the 6 x 15 foot matrix of the STR putting surface, the GCF urethane cushion and ½ inch Turf Cushion over a flat and level concrete slab. The comparator was the same STR putting surface installed directly over the prepared crushed stone base. The urethane cushion was applied scrim down to the Turf Cushion.

Five Hundred test shots were made from 3 varied distances of 18 feet, 30 feet and 90 feet. In sets of five balls each green, shots were made to the respective installs and measured from the point of impact to the ball position at rest. Attention was paid to the type of bounce, height of bounce, visible spin/"check". Titleist Pro V balls were used for consistency.

The data shows that the "Second Bounce" installation stopped the ball on average 10% faster than the stone base install (in the same direction- down grain). The 1st bounce was general straight and higher on the Second Bounce matrix with more grab on the ball in the 1st bounce as compared to the stone base. The stone base bounced lower and slightly further with the 2nd bounce showing the "grab". Longer shots from 30 and 90 feet showed substantially higher 1st bounces on the Second Bounce matrix but also stopped 10% faster.

The conclusions to be drawn is that the Second Bounce matrix absorbs the impact differently than the stone base and allows the ball to drive deeper into the surface where the spin has more surface area to grab on to. However, the cushion provides more resilience or rebound and allows the ball to jump higher off the initial bounce. The bounce is more vertical than the flatter and longer distance bounce from the stone base thus creating the stopping advantage. Further testing with a larger green is recommended so that longer distance shots can be studied.

Sincerely,

Lee Phillips
Lab Director
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