

## Testing Test devices allow for monitoring the vital artificial turf field characteristics over time.

### Ball Roll Tester + Ball Rebound Tester

This device measures how far the ball rolls, and how high it bounces and gives an indication on what kind of maintenance is needed.



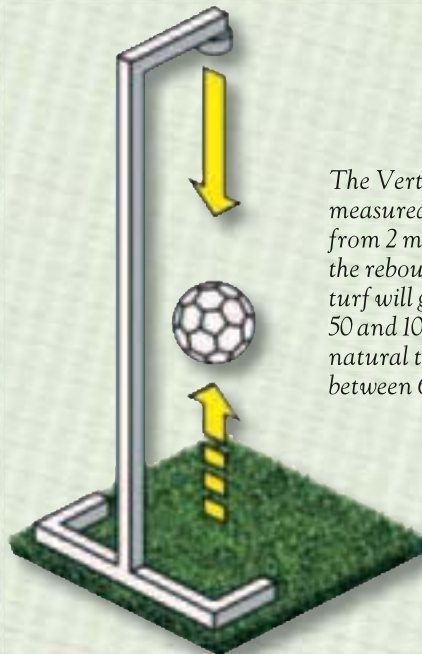
Ball Roll Tester



The Ball Roll values for natural turf would vary between 4- and 10m, natural turf in ideal conditions will give values from 4- to 8m. The lower the value, the slower the pitch.\*



Ball Rebound Testing Bar



The Vertical Ball Rebound is measured by dropping a ball from 2 meters and measuring the rebound height. Natural turf will give values of between 50 and 100 cm, but an "ideal" natural turf will give values of between 60 and 85 cm.\*

\*from FIFA Quality Concept for Football Turf.

### Infill Thickness Tester



This is a measuring tool for determining the amount of infill in an artificial grass surface. It is important to measure this regularly, as a typical synthetic field loses 5-10% of its infill over a year.

From: Fieldmanager June 2013

In 2011-2012 in Turkey there was an increase in heartattacks on sportsfields. They were on the artificial grass fields on private areas, which were run by commercial companies. It appeared that there was no or hardly any rubber infill in the artificial grass. The ballroll was therefor too high, and players had to run extremely fast and thus had to give too much efforts resulting in extra heartattacks.

Ballroll on many of those fields appeared to be 16-18 meters, while according to the Fifa rules it should be maximum 12 meters.