

THE SCIENCE BEHIND THE SURFACE



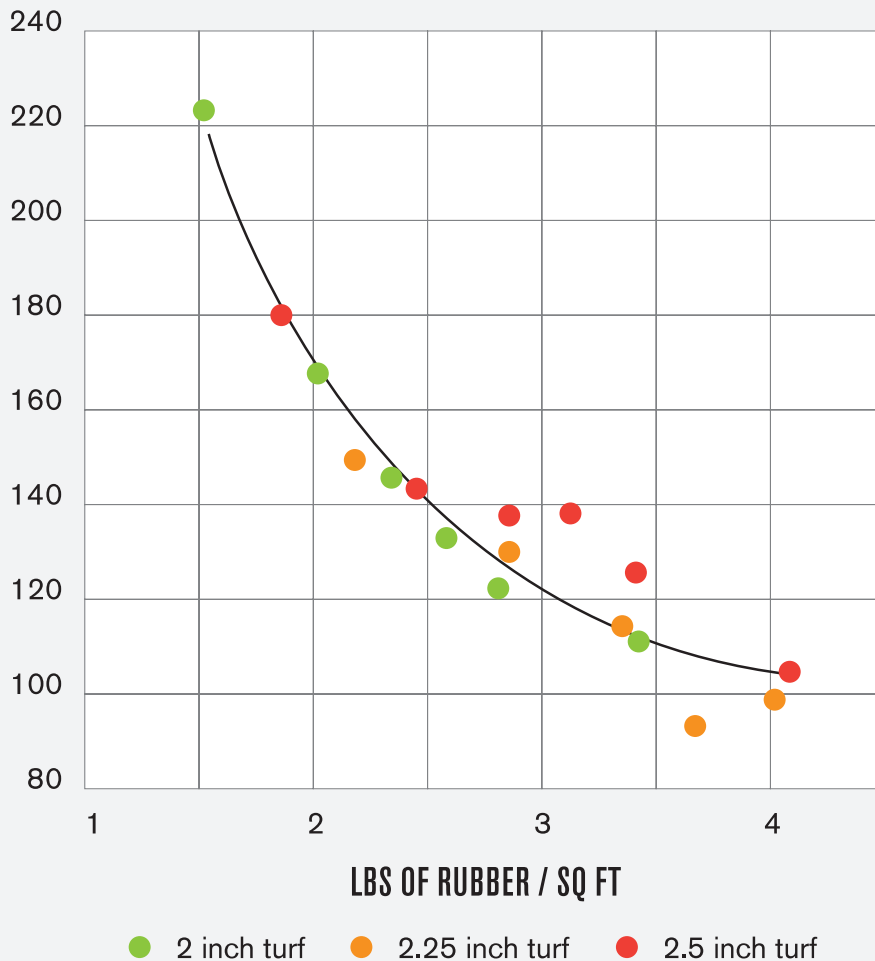
G-MAX AS A FUNCTION OF RUBBER WEIGHT

When it comes to testing the safety of turf systems, g-Max is the most commonly used test to help prevent injuries from high impact on turf.

When the g-Max levels of 2 inch, 2.25 inch, and 2.5 inch turf systems are plotted on the same graph, it becomes evident that it is the amount of rubber present in the infill that controls the g-Max property.

Low pile systems with high rubber content and high pile systems with low rubber content can have the same g-Max measurements.

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As seen below, the g-Max results are scattered when plotting by total infill weight. There appears to be no correlation between total infill weight and g-Max results. In fact, the most safe and least safe systems based on g-Max, both have between 7-8 lbs./s.f of infill.

This chart also shows that systems with different pile heights can achieve g-Max measurements below 120. This is dependent upon the amount of rubber used in each system.

