

Scatter plot showing the relationship between Pounds of Rubber in Infill (X-axis) and Ball Quality (Y-axis). The X-axis ranges from 1 to 5, and the Y-axis ranges from 2 to 14. A black trend line indicates a positive correlation. The plot area is divided into three horizontal bands representing different quality levels:

- FIFA 1 QUALITY (Orange band, Y=10.5 to 11.5)
- FIFA 2 QUALITY PRO (Blue band, Y=6 to 10)
- FIFA MIN (Orange band, Y=2 to 6)

Data points (green circles) are plotted, showing that as the pounds of rubber in the infill increase, the ball quality generally improves, moving from the FIFA MIN band towards the FIFA 1 QUALITY band.

Ultimately, the optimum vertical deformation of a system is not determined by total infill weight, but by having the right amount of rubber in the infill. The following chart shows a sample of fields infilled at various levels and it shows there is no correlation between the total amount of infill and the vertical deformation measured in the system.

