

## Pro-Set

### Rigid Post Fixing

Testing shows better performance results with Pro-Set than with concrete in terms of resistance to lateral force. The post does not break as easily with Pro-Set compared to concrete. Concrete is very rigid and has zero flexibility, so the total lateral force is directly on the wood post. Pro-Set absorbs some of the force and has a little flexibility so the post does not break as easily. Wood posts set with concrete typically break when 500-550 lbs (225-250 kg) of lateral force is applied. On the other hand, wood posts set with Pro-Set will not break until 600-750 lbs (270-340 kg) of lateral force is applied. In other words, the higher lateral force supported by Pro-Set will allow a fence to withstand higher wind force than concrete. The figure below shows how tests were performed.

The compressive strength of Pro-Set is slightly higher than tamped soil. The soil and the post are the “weaker links” in the fence post installation. In other words, if a strong wind or a car hits a fence post, the ground will give or the post will crack before any damage happens to the footing.

In addition, Pro-Set has a much higher adhesive strength to the post than concrete, making it much harder for the post to move laterally inside the Pro-Set footing compared to a concrete footing.

Finally, Pro-Set is waterproof after it sets, so it helps prevent the wooden post from absorbing water.

