



Less Plastic is Not An Accident

We at DeepRoot designed the Silva Cell to optimize plastic use

At DeepRoot, we design infrastructure that lives beneath our cities for generations. Our materials reflect that same long-term commitment — they're not single-use products, but components built to support trees, soil, and stormwater systems for decades.

But that doesn't lessen our responsibility. We take every decision about material use seriously, including how much plastic goes into the ground.

"The most sustainable plastic is the plastic you never have to manufacture."

At DeepRoot, we believe performance should come from engineering precision — not excess. In many systems, more material is seen as a path to strength. We've taken a different approach: designing systems that meet real-world requirements without overbuilding.

Our approach is centered around plastic optimization. Every component in our system is evaluated to determine if it's necessary and if it's contributing to performance — and if not, can it be reduced or removed?

This isn't a one-time exercise. It's an ongoing discipline. We refine molds, remove redundancy, and continuously improve the efficiency of our system.

When you design this way, the results follow. Silva Cells deliver the same soil volume and long-term performance using significantly less material — up to 60% less than other soil cells in some applications. And, importantly, this efficiency does not come at the expense of strength. Our system is engineered to meet required loading standards and has been validated through independent third-party testing and by a track record of structural success around in the world in the form of 4,000+ projects.

"What goes underground should reflect what we stand for above it."

Our mission is to help build greener cities — and that responsibility extends to every decision we make below the surface.

Graham Ray
DeepRoot CEO



**SILVA CELLS USE UP TO
60% LESS PLASTIC
VS OTHER LEADING SOIL CELLS**