

# SILVA CELL TECHNICAL SHEET

DeepRoot's new Silva Cell supports traffic loads while providing uncompacted soil volumes for large tree growth and on-site stormwater management. The modular framework provides unlimited access to healthy soil — a critical component of tree growth in urban environments — allowing them to manage stormwater, reduce heat-island effect, and improve air quality.

The modular design of the Silva Cell makes using increased quantities of native or specialized soils simple and easy, ensuring high quality soils and expanded rooting zones to grow vibrant, healthy trees with long life expectancies.

Silva Cell systems can also easily be sized to treat the water quality volume of surrounding impermeable surfaces in a typical urban setting. For example, a 1,200 cubic foot volume (34 m<sup>3</sup>) of Silva Cells can be designed for 0% runoff from a 3,000 square foot (279 m<sup>2</sup>) Type II rain event.

By combining on-site stormwater management with expanded rooting volumes for large, healthy trees, Silva Cells create an unparalleled opportunity to improve the environmental and aesthetic functioning of our urban spaces.

## MATERIAL SPECIFICATIONS

Fiberglass reinforced, chemically-coupled, impact modified polypropylene.  
Galvanized steel tubes.

## FRAME DIMENSIONS

Length: 48" (1200 mm)  
Width: 24" (600 mm)  
Height: 16" (400 mm)

## DECK DIMENSIONS

Length: 48" (1200 mm)  
Width: 24" (600 mm)  
Height: 2" (51.5 mm)

## CAPACITY

Void capacity: approximately 92%  
Soil capacity: approximately 10 ft<sup>3</sup> (.28 m<sup>3</sup>)

