

# UTAH TOPSOIL & HAULING, CO.

EST. 2023

## Structural Soil Media for Urban Trees

### Product Description:

Structurally engineered soil media consisting of 80% lightweight aggregate sized 1/2" to 1" and 20% loamy topsoil that meets pavement weight load requirements while supporting below grade tree root establishment.

### Source:

**Utah Topsoil & Hauling Co.**  
**Scott Jenson 801-243-9348**  
**scott@utahtopsoil.com**

### Structural Soil Properties:

- Loose Bulk Density (cu. ft.): 55 - 60 lbs.
- Compacted In-Place Bulk Density (cu.ft.): <90 lbs.
- Saturated Hydraulic Conductivity (in/hr): >30
- Compaction: 90 – 95% (Modified Proctor)

### Structural Soil Components:

#### Aggregate:

MagmaLite - 3/4" graded volcanic aggregate  
Gradation: 1/2" to 1 1/2"  
Bulk Density: 40 – 45 lbs/cf

Utelite – Coarse graded (1/2" to 1") volcanic aggregate

#### Topsoil:

Screened native loam to clay loam, organic content >2%

### Installation Procedure:

The structural soil blend is placed over a stable, full compacted subgrade in lifts not exceeding 12 inches. Each lift is compacted using a vibratory plate compactor with a minimum of 2 passes and no less than 10 seconds per pass. Additional passes may be required in the field by the engineer. Continue placing and compacting the lifts until the specified compacted depth is achieved.