

UTAH TOPSOIL & HAULING CO. LIGHTWEIGHT GRANULAR DRAINAGE MEDIA

PART 1: MEDIA COMPONENTS

Lightweight Aggregate 100%

PART 2: SUPPLIER CONTACT INFORMATION

Utah Topsoil & Hauling Co.
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PART 3: COMPONENT PROPERTIES

A. Lightweight Aggregate

Acceptable Sources:

MagmaLite Volcanic Aggregate
Gradation – 3/8" to 1/2"

Utelite Expanded Shale Aggregate
Gradation – Mediums (3/8" to 1/2")

B. Properties

1. Loose bulk density: 40 – 50 lbs/cf
2. Saturated bulk density: 65 – 80 lbs/cf
3. Compacted in place density: <90 lbs/cf
4. Stability (Phi Angle): >30 degrees
5. Saturated hydraulic conductivity: >30 in/hr

PART 4: INSTALLATION

Green Roof and Rooftop Garden Systems

- A. Place lightweight granular drainage media directly over the drainage system in uniform lifts not exceeding 12 inches. Ensure each lift is properly seated into place and properly compacted.

- B. Cover the lightweight granular drainage media with approved filter fabric and install as directed by manufacturer before placing planting media.

Granular Lightweight Fill

- A. Ensure subgrade has been properly prepared by removing all organic matter, debris, loose materials, and large rocks. Remove any soft or mucky areas and replace with suitable subgrade material. Subgrade should be compacted to 90% of its maximum density.
- B. Place lightweight granular drainage media in lifts not exceeding 12 inches deep. Compact using a vibratory plate, performing a minimum of two passes of not less than 10 seconds per pass, before moving to the next adjacent location. Additional passes may be required as determined by the field engineer. Continue placing and compacting in 12-inch lifts until the specified depth is reached.
- C. For large areas, a small vibratory roller can be used. Compacted lifts should not exceed 12 inches and should receive 2 – 4 passes as determined by the field engineer.