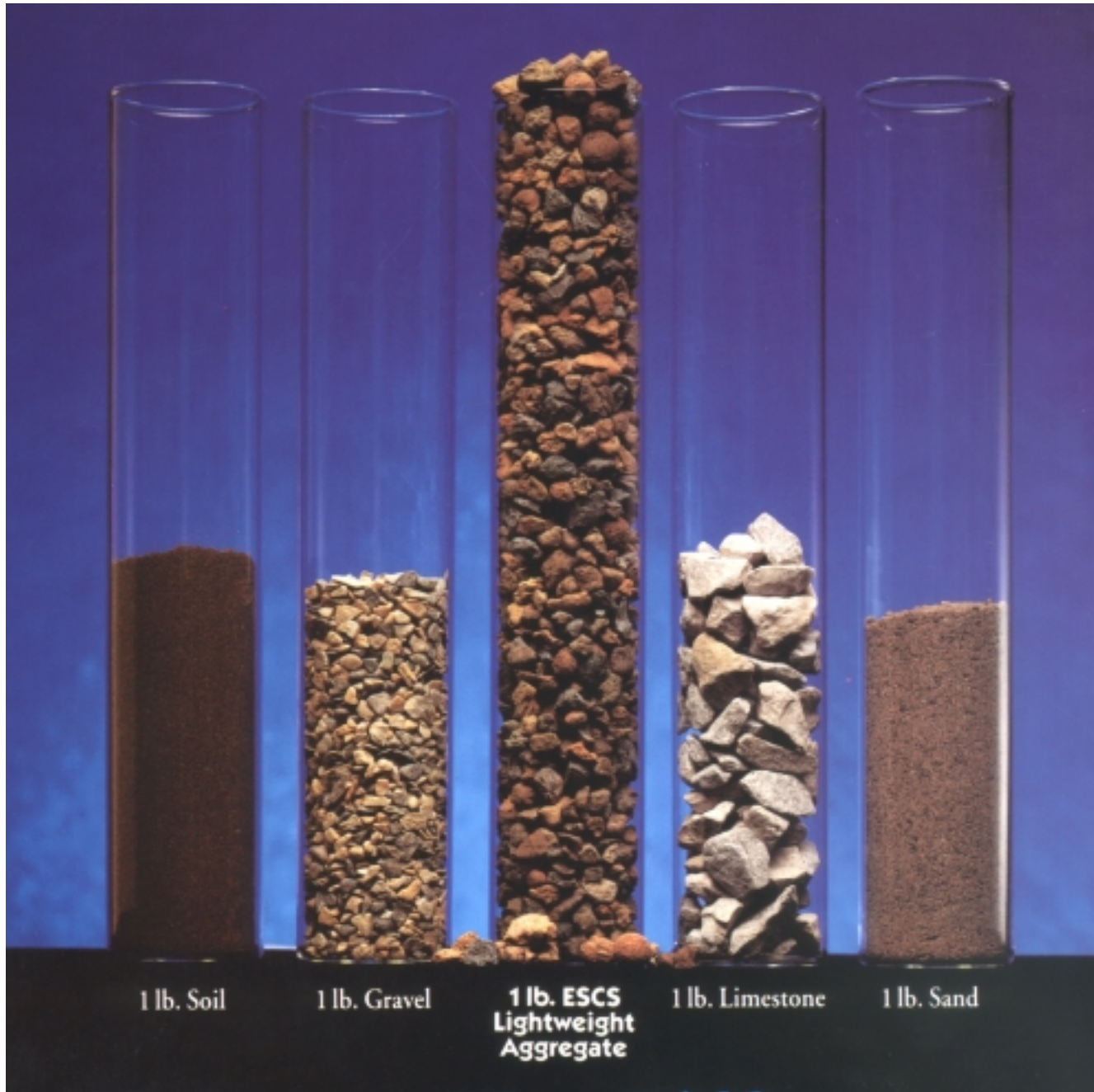




# LIGHTWEIGHT AGGREGATE BACKFILL

Expanded Shale, Clay and Slate (ESCS)

**ECONOMICAL • FAST • SIMPLE • PRACTICAL • CONSISTENT**



## THE TOTAL GEOTECHNICAL SOLUTION

# ESCS Lightweight Ceramic Aggregate Is The Total Geotechnical Solution

## Designer

- **LESS WEIGHT:** In place compacted moist densities between 40-65 lbs/ft<sup>3</sup> which is less than 1/2 that of ordinary fills
- **STABLE:** Phi angle,  $\phi$  35° - 45°+, granular aggregate
- **FREE DRAINING:** Permeable; > 1 cm/sec assured by manufactured aggregate
- **ABRASION RESISTANT:** LA Abrasion 20 - 40%
- **STRUCTURAL MATERIAL:** Meets ASTM C330 *Structural Lightweight Aggregate*
- **AVAILABILITY:** Readily available throughout the continental United States and Canada
- **DURABLE:** The material is tough and does not break down during handling. It has a typical magnesium sulfate soundness loss of less than 6%.

## Contractor

- **DELIVERY:** Quick delivery using standard methods: truck, rail, barge
- **SIMPLE:** Behaves like typical granular fill except easier to handle
- **STANDARD EQUIPMENT:** Loaders, static rollers and plate compactors
- **NO FORMWORK:** Just spread and compact
- **NOT WEATHER SENSITIVE:** May be installed in any weather
- **FAST:** No wait for next lift

## Environmental

- **TWICE THE VOLUME PER TRUCKLOAD (by weight):** Means 50% fewer trucks on the road
- **TOTALLY INERT VITREOUS CERAMIC:** Will not degrade or change over time
- **NO MAINTENANCE:** One application
- **INFRASTRUCTURE PRESERVATION:** Provides rehab option vs. mandatory replacement

## Owner

- **ECONOMICAL:** Hundreds of successfully completed projects over the last 40 years
- **UNCOMPLICATED, RELIABLE, PREDICTABLE:** Provides permanent solution
- **LAND USE:** Converts unstable soil into usable land

For the **TOTAL SOLUTION** Properties, Prices, Specs, and Manufacturers,

Visit Our Website  
at [www.escsi.org](http://www.escsi.org)



Rotary Kiln Produced  
Structural Lightweight Aggregate

**Expanded Shale, Clay and Slate Institute**  
2225 Murray Holladay Road, Suite 102  
Salt Lake City, UT 84117  
801-272-7070 • Fax 801-272-3377  
[www.escsi.org](http://www.escsi.org) • [info@escsi.org](mailto:info@escsi.org)

*Material Supplier*