



ADVANCED TERRA TESTING

2023 PROCEDURES

ADVANCED TERRA TESTING

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ROCK TESTING

General Properties

| Standard | Description | Notes |
|------------|---|-----------------------|
| ASTM D7263 | Moisture Content and Density (Modified For Rock) | |
| ASTM D7263 | Moisture Content and Density (Paraffin Coated, Modified for Rock) | |
| ASTM D854 | Specific Gravity (Modified For Rock) | Crushed to Minus #20 |
| ASTM D4318 | Atterberg Limits (Modified) | Prepped to Minus #100 |
| ASTM 4644 | Slake Durability | |
| RP-37 | Jar Slake | |
| ASTM D5312 | Freeze Thaw | 35 Cycles |
| ASTM D5313 | Wet Dry | 80 Cycles |

Strength

| Standard | Description | Notes |
|---------------------|---|--|
| ASTM D5607 | Direct Shear - Intact, Sawcut, or Natural Joint | Per Sample Up to 3 Residual Points |
| ASTM D7012 Method D | Unconfined Compressive Strength with Stress-Strain | Includes Stress Strain Measurement, Young's Modulus and Poisson's ratio Calculations |
| ASTM D7012 Method D | Unconfined Compressive Strength with Stress-Strain | Includes Stress-Strain Measurement, Young's Modulus Calculations Only |
| ASTM D7012 Method A | Triaxial Compressive Strength | Peak Load Only |
| ASTM D7012 Method B | Triaxial Compressive Strength with Stress-Strain | Includes Stress-Strain Measurement, Young's Modulus and Poisson's ratio Calculations |
| ASTM D7012 Method B | Triaxial Compressive Strength with Stress-Strain | Includes Stress-Strain Measurement, Young's Modulus Calculations Only |
| ASTM D6473 | Specific Gravity and Absorption of Rock for Erosion Control | |
| ASTM D3967 | Indirect Splitting Tensile Strength (Per Specimen) | Brazilian Disk Method |
| ASTM D5240 | Sulfate Soundness on Rock | Includes cutting |
| ASTM D5731 | Point Load Test (Per Specimen) | |

Hardness and Mineral Identification

| Standard | Description | Notes |
|------------|---------------------------------|--------------|
| ASTM D5873 | Rock Hardness by Rebound Hammer | |
| ASTM D7625 | CERCHAR Abrasivity Index Test | |
| ATT RP-39 | Mohs Hardness Scale | Scratch Test |

Dimension Stone Tests

| Standard | Description | Notes |
|-----------|--------------------------------------|----------|
| ASTM C99 | Modulus of Rupture | |
| ASTM C97 | Absorption and Bulk Specific Gravity | 5 Trials |
| ASTM C170 | Compressive Strength | |