



## NEC and Underground Enclosures

The National Electric Code states in article 314.30 that enclosures "...shall be designed and installed to withstand all loads likely to be imposed..." and "addresses issues related to enclosure size, wiring entries, enclosures without bottoms and bonding requirements for covers."

The code references the ANSI/SCTE 77 "Specification for Underground Enclosure Integrity" National Standard, which outlines various tests that enclosures must pass to meet the standard. ANSI/SCTE 77 also provides load charts with Tier ratings to help users determine the appropriate enclosure to select based on the loadings expected in the application.

## Quazite® – UL-Listed to ANSI Standard

All Quazite® polymer concrete enclosures meet or exceed the test provisions of ANSI/SCTE 77 2017 and most polymer concrete enclosures sized 30" x 48" and smaller are UL-Listed to the ANSI National Standard as referenced in the 2005, 2008, 2011, 2014 and 2020 NEC. To achieve this, Quazite® enclosures must pass numerous material and product performance tests before they can meet ANSI/SCTE 77 2017.

### Testing Requirements for ANSI/SCTE 77 2017

- Three-Position Load Testing to simulate actual application performance
- UV Degradation per ASTM G-154
- Fire Resistance per RUS 7CFR 1755.910 (PE-91)
- Chemical Resistance per ASTM D-543
- Water Absorption per ASTM D-570
- Impact Resistance per ASTM D2444
- Accelerated service per ASTM D-756, procedure E

Note: Quazite® recommends testing by third party organizations such as UL or ETL to verify that enclosures meet all test provisions of ANSI/SCTE 77.

## Quazite® – Peace of Mind.

Quazite® enclosures have undergone rigorous physical, environmental and internal equipment-protection tests and have been found by UL to meet the requirements required by the ANSI Standard. By adhering to the NEC, ANSI and UL requirements, in the enclosure-selection process, users are ensured long service life. Quazite® enclosures offer improved manageability and cost-efficiency over other enclosures, and peace of mind as well.

*National Fire Protection Agency, 2005, 2008, 2011, 2014 and 2020 National Electric Code.*

*Subsequent to the issuance of the 2005 NEC, ANSI approved an updated version of the standard, ANSI/SCTE 77 2017.*

*The latest copy of the standard may be purchased from ANSI.*

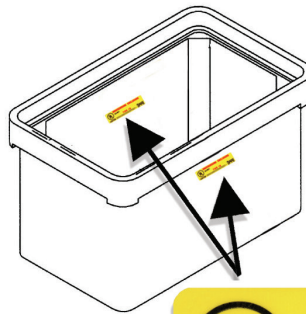
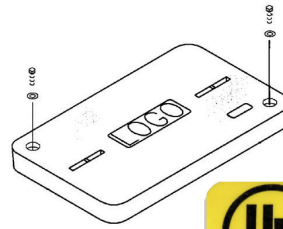
## UL Listing

 indicates UL Listing

### UL Listed Enclosures

Determine if a UL listed enclosure is required for your installation. Federally funded electrical and telecom projects, as well as many state and municipal projects, generally require the use of a UL Listed product whenever one is available.

Most Quazite® polymer concrete underground handhole enclosures in sizes 30" x 48" and smaller are agency listed. These products are clearly marked with the UL label on both the box and underneath the cover. Special order boxes with holes (or mouseholes, etc.) may qualify for UL listing as long as the holes do not exceed more than 25 percent of the area of each sidewall and as long as the holes do not cut into a structural reinforcing rib, corner or box lip.



*Highlighted areas indicate UL Listing*

