

Quazite®

POLYMER CONCRETE PRODUCTS FOR UNDERGROUND CONSTRUCTION



Precast Polymer Concrete

Since 1971, QUAZITE® precast polymer concrete products have been used by utilities and contractors for durable, cost-effective applications. Quazite manufactures a broad range of underground utility products including: service boxes and handholes, water meter boxes, electrical equipment pads, telephone cabinet pads, CATV enclosures, switchgear box pads and traffic signal cabinet bases.

Quazite manufacturing/distribution centers are in Lenoir City, Tennessee and Juarez providing nationwide service and prompt delivery.



QUAZITE® enclosures can be embedded in concrete highway median barriers for signal and lighting junction boxes.



QUAZITE® options include water meter lids for a wide variety of enclosures.

Even the largest QUAZITE® enclosures can be set using only a backhoe, therefore eliminating the need to rent or buy costly special equipment for installations.



Engineering

Registered professional engineers are on hand to assist with design, specification development and review. Full CAD capabilities are available and can be used to electronically transmit drawings and files. Product drawings and specifications can be viewed on our website:

www.quazite.com

Quality Assurance

Quazite is committed to quality assurance, product improvement and research into new materials and applications. The Quality Assurance staff at each Quazite manufacturing facility assures product consistency and conformance to customer specifications.

The test labs and manufacturing processes at all Quazite facilities are accepted by Underwriters Laboratories, Inc. (UL). Standard testing is performed to assure the highest quality products. In addition, other custom tests are performed on a routine basis as required for the application.

What Is Polymer Concrete?

Polymer concrete is made from selectively-graded aggregates in combination with a polymer resin system. When combined through a process of mixing, molding and curing, an extremely powerful cross-linked bond is formed. Precast polymer concrete is reinforced with fiberglass for exceptional strength and durability.

Why Use Polymer Concrete?

- **Lightweight** — 1/10 to 1/3 the weight of concrete
- **High Strength** — compressive, flexural and tensile strengths three to five times higher than traditional concrete
- **Reduced Installation Costs** — easy to handle, no special equipment required
- **Stable Under Freeze/Thaw Conditions**
- **Impact Resistant** — tested per ASTM D-2444
- **Low Water Absorption** — less than 1% per ASTM D-570
- **Corrosion Resistant** — resistant to alkalines, acids, weathering and other forms of deterioration
- **Cost Effective** — outperforms conventional materials for longer service and lower life cycle costs
- **Nonflammable** — will not support combustion
- **Nonconductive** — no grounding required for the box or cover

Utility Products

Enclosures

Quazite® enclosures can be used as splice boxes, pull boxes, or equipment enclosures for any application requiring easy access to an underground service (i.e.: electric, water, gas, fiber optics.) Enclosures and covers are 2008 NEC and ANSI/SCTE compliant for intended applications. Available in a large variety of sizes and styles with either standard or heavy duty covers, no grounding is required for the box or cover. Quazite® enclosures fit flush with sidewalk or grassy areas and skid-resistant covers add an extra factor of safety. Replacement covers and meter lids, hardware, inserts, and grade-adjustable extensions are available.



Many electric utilities depend on QUAZITE® enclosures for safe, reliable performance.

Safety

Every end-user is concerned about safety, but not everyone understands what the requirements are to ensure the safety of underground enclosures. When end users and specifiers use the National Electric Code, ANSI/SCTE 77 and UL listing requirements in the enclosure selection process, they can be assured of long service life, increased safety, and reduced potential liability associated with failed underground enclosures. Quazite® enclosures exceed the performance requirements of ANSI/SCTE 77 and most Quazite® enclosures sized through 30 x 48 are UL listed to the ANSI standard as referenced in the NEC.

PG Style



Stackable for increased depth. Straight sides for easy adjustment of box to grade.

- Available in sizes:

11" x 18"	24" x 24"	30" x 60"	36" x 72"	48" x 96"
13" x 24"	24" x 36"	36" x 36"	48" x 48"	
17" x 30"	30" x 48"	36" x 60"	48" x 72"	

- Design load: 22,500 lbs. Test load: 33,750 lbs. (Loadings comply with ANSI/SCTE 77. These boxes, with a design load of 22,500 lbs. and a test load of 33,750 lbs., meet ANSI Tier 22 test provisions.)
- 12" - 48" depths

PD Style



Enclosures with 1° (degree) flare for maximum strength. Flared design optimizes internal volume and prevents frost heave.

- Available in sizes: 13" x 24", 17" x 30", 24" x 36", 30" x 48"
- Design load: 22,500 lbs. Test load: 33,750 lbs. (ANSI Tier 22)
- 18" - 48" depths

PC Style



Straight sides permit easy movement of box should grade level change. Gasketing also available. All sizes are stackable.

- Sizes: 6" x 8", 8" x 18", 11" x 18" and 12" x 12"
Design load: 15,000 lbs. Test load: 22,500 lbs. (ANSI Tier 15)
- Sizes: 13" x 24" and 17" x 30"
Design load: 5,000 lbs. Test load: 7,500 lbs. (ANSI Tier 5)
- Sizes: 8" x 8"
Design load: 22,500 lbs. Test load: 33,750 lbs. (ANSI Tier 22)
- 6" - 18" depths

PT Style



Flared design prevents frost heave. Covers are interchangeable with many precast concrete parts. Nestable for compact storage.

- Sizes: 10" x 15", 13" x 24", 17" x 30"
- Design load: 15,000 lbs. Test load: 22,500 lbs. (ANSI Tier 15)
- 18" deep

PX Style



Service box assemblies with flared sides. Nestable for compact storage.

- PX Size: 12" x 12" x 24"
Design load: 15,000 lbs. Test load: 22,500 lbs. (ANSI Tier 15)

PR Style



Round enclosures. Cover cannot fall into the box.

- Available in sizes:
27" dia. x 36" & 48" depths
39" dia. x 18", 24", 36" & 48" depths.
- Design load: 22,500 lbs. Test load: 33,750 lbs. (ANSI Tier 22)

Electrical Equipment Pads

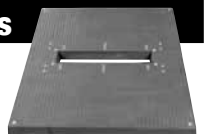


QUAZITE® offers a variety of pads and box pads that work with most transformers and switchgear manufactured today.

Quazite pads are available for most Single-phase transformers rated 10 kVA - 167 kVA and Three-phase transformers rated up to 2,500 kVA. Larger sizes can be made to suit your application.

Quazite switchgear box pads are designed to fit most manufacturers' switchgear rated 15 kV, 25 kV, and 35 kV.

Telecommunications Cabinet Pads



Quazite makes pads to accommodate most of the telephone cabinets manufactured today. Throat sizes and insert locations can be designed to meet your requirements.

Traffic Signal Bases



Precast polymer concrete traffic signal bases eliminate forming and pouring and are lightweight for easier handling and lower installation costs. Bases can be reused in other locations. Excavation and installation of the entire unit can be done in one day.

Highlighted areas indicate UL Listing



Underground Enclosure Performance Specifications

Enclosures, boxes and covers are required to conform to all test provisions of the most current ANSI/SCTE 77 "Specification For Underground Enclosure Integrity" for Tier_____ (specify Tier 5, 8, 15 and/or 22) applications. When multiple "Tiers" are specified the boxes must physically accommodate and structurally support compatible covers while possessing the highest Tier rating. All covers are required to have the Tier level rating embossed on the surface. In no assembly can the cover design load exceed the design load of the box. All components in an assembly (box & cover) are manufactured using matched surface tooling. Independent third party verification or test reports stamped by a registered Professional Engineer certifying that all test provisions of this specification have been met are required with each submittal.



QUAZITE®
3621 Industrial Park Drive
Lenoir City, TN 37771
Phone: 800-346-3062 or 865-986-9726
Fax: 865-986-0585
Web: <http://www.quazite.com>
e-mail: hpsliterature@hps.hubbell.com