

Quazite®

UNDERGROUND ENCLOSURES AND PADS



STRONGEST

AND SAFEST

ON THE

MARKET

With manufacturing facilities in Lenoir City, TN and San Jose, CA, Quazite (formerly a brand of Strongwell Corporation, Bristol, VA) is the newest member of Hubbell Power Systems (HPS). Quazite manufactures a complete family of quality precast polymer concrete products that includes enclosures that allow easy access to electrical underground service as well as pads (SPLITT-PAD®) for supporting transformers and pad-mounted switches. In addition to supplying products to electric utilities, Quazite serves the telecommunications, transportation, fiber optics, CATV, water and gas industries.

Since 1971, Quazite polymer concrete enclosures and pads have been manufactured 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 and reinforced with fiberglass for the exceptional strength and rigidity found with Quazite products.

Offering many advantages over concrete, (light weight 1/10 to 1/3 the weight of concrete), Quazite products are easy to handle requiring no special installing equipment. High-strength Quazite products have compressive, flexural and tensile strengths three to five times



higher than traditional concrete (impact resistance tested per ASTM D-2444). Our enclosures and pads resist alkalines, acids, weathering and other forms of deterioration. Non-flammable. Non-conductive. Freeze resistant, too.

Quazite customers know our products have undergone rigorous physical, environmental and internal equipment protection tests and have been found by Underwriters Laboratories (UL), a third neutral party, to meet the test requirements of the ANSI National Standard "Specification for Underground Enclosure Integrity" (ANSI/SCTE 77 2002). The

monolithic construction of our products ensures consistent quality to eliminate the possibility of thermal expansion stress cracks. On the other hand, enclosures made of dissimilar materials, however, are susceptible to cracking because each material in the enclosure has a unique coefficient of thermal expansion (CTE). When such materials expand and contract at different rates during temperature fluctuations, stresses can lead to cracking and product failure. Compromised enclosures can lead to serious problems including costly repairs, expensive lawsuits and worse.

WEAKNESSES OF OTHER METHODS

PRECAST CONCRETE	POURED-IN-PLACE CONCRETE	PLASTIC AND FIBERGLASS
<ul style="list-style-type: none"> ■ Brittle and easily damaged by impacts. ■ Porous and can absorb significant amounts of water. In freezing temperatures, the water turns to ice and breaks the concrete apart. ■ Sidewalls and covers of precast concrete enclosures must be thick to provide enough strength. Thickness increases weight, which makes enclosures more difficult to handle and install. Depending on size, special equipment may be needed for the installation. ■ Deteriorates when exposed to inorganic acids, strong alkalines, salt, equipment lubricants and other corrosive chemicals found on or near roadways. 	<ul style="list-style-type: none"> ■ Poured-in-place concrete shares the same drawbacks as precast concrete. ■ Requires significant planning and coordination of crews for installation. Forms must also be constructed and then discarded. ■ Can take traffic signal cabinet bases as long as two days to set up before the cabinet can be installed. ■ Traffic signal cabinet bases absorb the energy in the event of an accident and cause much more damage than break-away bases. 	<ul style="list-style-type: none"> ■ Plastic and fiberglass enclosures and cabinet bases do not have enough strength and durability to ensure safe, long-term performance. ■ Easily damaged by lawn care equipment, which can lead to exposure of dangerous electrical wires or delicate system components. ■ Affected by temperature extremes. Plastic can become soft in high temperatures and brittle in cold temperatures. ■ Both are subject to UV degradation.

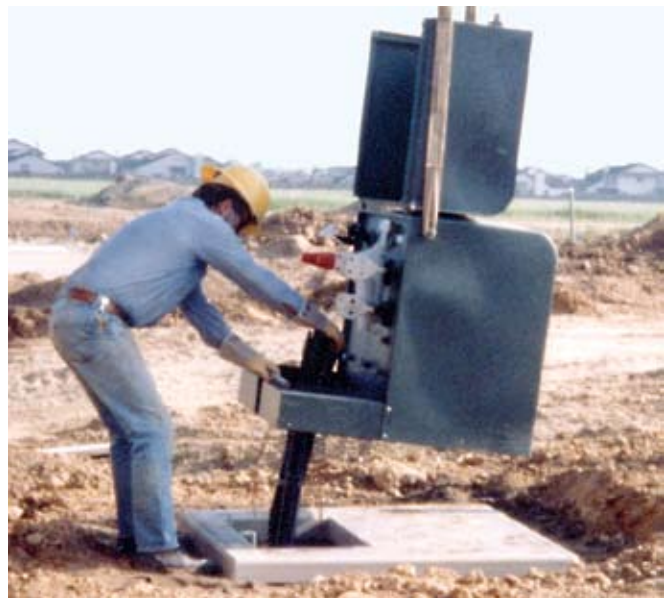
THE QUAZITE SOLUTION:

Superior Performance - Quazite enclosures and pads outperform concrete, plastic and fiberglass no matter how compared. Our products will last with little or no maintenance for years.

Cost Effective - Up-front cost of precast concrete, plastic and fiberglass are attractive at first glance, but there's more to it. Factor in the long-term costs associated with failures, repairs, replacement and litigation from injuries, and those materials become more expensive than Quazite products. In the case of poured-in-place concrete, concrete may appear to be inexpensive, but the installation process is labor intensive, time consuming and subject to weather delays.

Quazite Lasts - Our product life cycle is longer than traditional materials thus more cost effective and trouble free over the long term. Quicker and easier to install, too.

Reduced Liability - Product failures that can expose electrical wires to the public, and you to liability are not an uncommon experience with traditional materials. Quazite product history is one of superior durability and performance that means reduced liability.



The addition of the Quazite product line to Hubbell expands the Hubbell utility product line with enclosures and pads that allow utilities to access underground lines and support pad-mounted equipment.

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Quazite handholes and underground electrical enclosures are UL listed to ANSI/SCTE 77 2002 as referenced in the NEC 2005 and meet and exceed new section 314.30 requiring handhole enclosures be designed and installed to withstand all loads likely to be imposed (see FPN ANSI/SCTE 77-2002).

Tested. Proven. Dependable.

Until recently, the lack of a national standard and the fact that enclosures are made using various materials, designs and technologies made it easy for some to make false claims about the performance and appropriate applications for their enclosures. The most responsible way to ensure the safety of the public, while minimizing your liability, is to insist on the use of underground enclosures that passed rigorous performance testing by a third party (Quazite enclosures are performance tested by UL) and are listed to meet ANSI's "Specification for Underground Enclosure Integrity" (ANSI/SCTE 77 2002). Most enclosures sized 30" x 48" and smaller are UL listed to meet the standard. ■

Test Requirements of ANSI/SCTE 77 2002 Include:

- Three-position testing on both enclosure and cover to simulate typical non-deliberate vehicular loadings
- Accelerated service per ASTM D 756
- Chemical resistance per ASTM D 543
- Simulated sunlight exposure per ASTM G 154
- Impact resistance per ASTM D 2444
- Water absorption per ASTM D 570
- Flammability resistance per RUS specification PE-35 and RUS 7 CFR 1755.910, paragraph xiii



Hubbell also markets Polycast® surface drain systems, Duraguard® non-metallic molded grating and Polyvent® foundation ventilation systems to the C&I, transportation, plumbing and industrial plant segments among other markets.

For more information, contact your Quazite representative, fax 573-682-8714 or e-mail hpsliterature@hps.hubbell.com.