

## Enclosures

For use as splice boxes, pull boxes or equipment enclosures for any application requiring easy access to an underground service (i.e. electrical, water, telephone, gas, fiber optics, CATV, etc.). Available in a large variety of sizes and styles with either standard, heavy duty or optional overlapping covers. No grounding is required for the box or cover. Fits flush with sidewalk or grass area. Skid resistant covers. Replacement covers and meter lids, hardware, inserts and grade adjustable extensions are available options.



## Box Pads and Traffic Signal Bases

Precast polymer concrete box pads and traffic signal bases eliminate forming and pouring and are lightweight, resulting in easy handling and a lower installed cost. Excavation and installation of the entire unit can be done in one day. Can be reused in other locations.



## Electrical and Telephone Pads

Used under transformers and telephone cabinets to add stability, prevent corrosion of metal cabinets, provide a fire break, and protect cabinets from damage caused by mowing equipment. Available as a solid pad or as a Splitt-Pad® for easy retrofits.



## Ordering Information

### 1. Determine UL Requirements

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® underground enclosures in sizes through 30" x 48" are UL Listed. These products are clearly marked with the UL label on both the enclosure and the cover. Special order enclosure with holes and mouseholes may also qualify for UL Listing as long as the holes do not exceed 25% of the area of each sidewall

### 2. Determine Load Ratings

Tier designations are used in the underground enclosure industry to aid in specifying the performance of products. The Tier number relates to a nominal design load times 1,000 pounds (i.e.: Tier 8 = 8 x 1,000 lbs. = 8,000 lbs.).

All Tier loadings will have a corresponding test load which is at least 50% greater than the design load. The maximum deflection at the indicated design load shall be 1/2 inch for vertical tests and 1/4 inch per foot of length for lateral tests.

**Application Tiers & Static Vertical Wheel Load Ratings**

QUAZITE® Tiers	Design Load (min.)	Test Load	UL Tier Designations	Design Load	Test Load (min)	UL Listed Boxes
Tier 5	5,000 lbs.	7,500 lbs.	Tier 5 Sidewalk applications with a safety factor for occasional non-deliberate vehicular traffic.	5,200 lbs	11,284 lbs	PC 13" x 24" or PC 17" x 30" style box and cover assemblies with std. Covers (CA) and std. Covers w/o bolts (WA)
Tier 8	8,000 lbs.	12,000 lbs.				PG and PT style box and over assemblies up to 30" x 48" and PC style in sizes 6" x 8", 11" x 18" and 12" x 12" with std. Covers (CA) and std. W/o bolts (WA)
Tier 15	15,000 lbs.	22,500 lbs.	Tier 10 Driveway, parking lot, and off-roadway applications subject to occasional non-deliberate vehicular traffic	10,400 lbs	22,568 lbs	PG and PC style box and cover assemblies up to 30" x 48" with heavy duty covers (HA)
Tier 22	22,500 lbs.	33,750 lbs.	Extra heavy duty covers (HH)	* Loadings for HH covers comply with all test provisions of ANSI/SCTE 77 except that they have a vertical design load of		
AASHTO H-20 20 ton GVW ASTM C-857	28,800 lbs	N/A	AASHTO-H-20 Deliberate vehicular traffic applications	Certified precast concrete or other AASHTO recognized materials**		

\*\* Note there are no AASHTO design or test provisions for polymer composites. Therefore there is no recognized method of testing for qualification. Applying other material testing methods to polymer composites is not recognized by AASHTO.

Style Available	Size
PC	6" x 8"
PC	8" x 18"
PT	10" x 15"
PG & PC	11" x 18"
PC	12" x 12"
LX	12" x 12"
PG, PC, PT & PX	13" x 24"
PG, PC, PT & PX	17" x 30"
PD	17" x 30"
PG	24" x 24"
PG	24" x 36"
PG	30" x 48"
PD	30" x 48"
PG	30" x 60"
PG	36" x 36"
PG	36" x 60"
PG	36" x 72"
PG	48" x 48"
PG	48" x 72"
PG	48" x 96"
<i>Highlighted areas indicate UL Listing</i>	

### 3. Determine Hole Opening Size

### 4. Select Cover Series & Style

#### CA/WA/CG Series Covers

CA covers are designed to bolt down. WA covers do not have provisions to bolt the covers in place. CG covers feature a grommet package to reduce incoming fluids into the enclosure. CG covers must be used with gasketed enclosures.

- Design Load: 8,000 lbs. over a 10" square with a minimum test load of 12,000 lbs. (ANSI Tier 8) (For PG, PT, PR and smaller PC styles)
- Design Load: 5,000 lbs. over a 10" square with a minimum test load of 7,500 lbs. (ANSI Tier 5) (For PC 13" x 24" and PC 17" x 30" styles and all LG styles)

#### HA/HG Series Covers

Heavy duty covers (available for PG, PD, PC and PR enclosure styles) are designed for driveways, parking lots and off-roadway applications where subject to occasional non-deliberate vehicular traffic. HG covers feature a grommet package to reduce incoming fluids into the enclosure. HG covers must be used with gasketed enclosures.

- Design Load: 15,000 lbs. over a 10" square with a minimum test load of 22,500 lbs. (ANSI Tier 15)

Cover		Design lbs.	Test Load (lbs)	Test Area	ANSI Teir
Style	Series				
LG	CA/WA	5,000	7,500	10" x 10"	5
PC1324 & PC1730	CA/WA	5,000	7,500	10" x 10"	5
PC all other sizes	CA/WA	8,000	12,000	10" x 10"	8
PG/PT	CA/WA	8,000	12,000	10" x 10"	8
PC	HA	15,000	22,500	10" x 10"	15
PG/PT	HA	15,000	22,500	10" x 10"	15
PG	HH	22,500	33,750	10" x 20"	15**
PR	CA/WA	8,000	12,000	10" x 10"	8
PR	HA	15,000	22,500	10" x 10"	15

*Highlighted areas indicate UL Listing*

### HH Series Covers

Extra heavy duty HH covers are designed for driveways, parking lots and off-roadway applications where subject to occasional non-deliberate traffic by heavy vehicles. Contact your local QUAZITE® representative for availability of sizes.

- Loadings for HH covers comply with all test provisions of ANSI/SCTE 77 except that the vertical design load is 22,500 lbs. with a test load of 33,750 lbs. over a 10" x 20" plate

### LG Style Covers

32% lighter in weight as compared to the PG covers.

- Design Load: 5,000 lbs. over a 10" square with a minimum test load of 7,500 lbs. (ANSI Tier 5)

### Overlapping Covers

Available in sizes 30" x 48", 30" x 60" and 36" x 60". Eliminates soil infiltration and allows for easy cover removal. Not recommended for sidewalks.



- Design Load: Available in either CA or HA ratings. (ANSI Tier 5, 8 or 15)

### Torsion Assist Covers

Available on 30" x 48" and larger assemblies only.



### Replacement Covers

Covers that are interchangeable with several manufacturers' products include: PG1324, PG1730, PG2436, and PG3048. Other styles and sizes are also available.

- Design Load: Load Ratings will vary. Contact your local QUAZITE® representative for more information.

### Meter Reading Lids

Available in PG style covers.

- Design Load: 5,000 lbs. over a 10" square with a minimum test load of 7,500 lbs. (ANSI Tier 5)



Commonly Used Cover Logos		
9	Blank	26 High Voltage
10	C.A.T.V.	29 Lighting
12	Communications	41 Street Lighting
14	Controls	43 Telephone
17	Electric	44 Traffic
21	Fiber Optics	46 Traffic Signal
24	Ground	50 Water

## 5. Select Box Style

For use as splice enclosures, pull enclosures or equipment enclosures for any application requiring easy access to an underground service (i.e. electrical, telephone, fiber optics, CATV, water, gas, etc.). Available in a large variety of sizes and styles with either standard, heavy duty or optional overlapping covers. No grounding is required for the enclosure or cover. Fits flush with sidewalk or grass area. Covers are skid resistant. Replacement covers and meter lids, hardware, inserts and grade adjustable extensions are available options. Enclosures and covers are ANSI/SCTE 77 compliant for intended applications.

- **PG/LG Style**  
*For use as a splice enclosure, pull enclosure, equipment enclosure or for any application requiring easy access to an underground service. Stackable for increased depth. Straight sides for easy adjustment of box to grade.*
- **PD/LD Style**  
*Enclosures with 1° flare for maximum strength. Flared design optimizes internal volume and prevents frost heave.*
- **PC Style**  
*Straight sides permit easy movement of box should grade level change. Gasketing also available. All sizes are stackable.*
- **PTLT Style**  
*Flared design prevents frost heave. Covers are interchangeable with many precast concrete parts. Nestable for compact storage.*
- **PXLX Style**  
*Service enclosure assemblies with flared sides. Nestable for compact storage.*
- **PRLR Style**  
*Round enclosures. Cover cannot fall into the box.*

## 6. Determine Options & Hardware

Extensions – Bottom and top extensions are available to give extra depth. Bottom extension only available for sizes: PG1324EA through PG3048EA. Top and bottom extensions available for sizes: PG4872EA and PG4896EA. Top grade adjustment extensions available for sizes: PG1324ED, PG1730ED, PG2436ED, and PG3660ED.

### Other Options –

- Penta-head Bolts
- Gaskets
- Cover Hooks
- Cable Racks
- Penta-head Sockets
- Rack Hooks
- Terminators
- Cable Retainers
- Holes
- Box Dividers
- Knockouts
- Meter Lids
- Electronic Locating Markers
- Colors
- Struts
- Logos
- Pulling Eyes
- Insert Locations

