

# Hubbell Underground Enclosures

Strength, performance, quality, and outstanding customer service have been hallmarks of all Hubbell underground enclosure brands for more than 40 years. The industry leader for applications in non-deliberate traffic areas, our enclosures provide rugged and cost-effective protection for a variety of electric utility, commercial & industrial, communications, water and gas equipment while meeting the specific demands of your industry.

All Hubbell underground enclosure brands come backed with cutting-edge engineering expertise and a total commitment to quality that is designed into our products. Our engineers are respected and valued advisors throughout the industry and our quality processes are among the most sophisticated in application. When you need unyielding performance and reliability, Hubbell underground enclosure brands are the right choice.

Hubbell is proud to offer the wide selection of underground enclosures found in this catalog. The following pages outline our industry leading Quazite, Quazite FRP and PenCell brands. In addition to our core products and options, Hubbell can help customize a solution for your project and application.



# Hubbell Underground Enclosures

Hubbell offers three distinct brands of underground enclosures. All three are built with the same attention to quality and performance that you know and expect from Hubbell. Each brand is made of a different base material. Our comprehensive product offering is tailored to ensure that your application requirements are met, no matter what. Based on your design style preference, Hubbell offers Quazite® monolithic polymer concrete, Quazite® FRP fiberglass-reinforced polymer, and PenCell HDPE enclosure products. All three brands offer superior performance and unique benefits.

## Quazite® Enclosures

Polymer concrete is made from select-grade 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 to give it additional strength and rigidity.

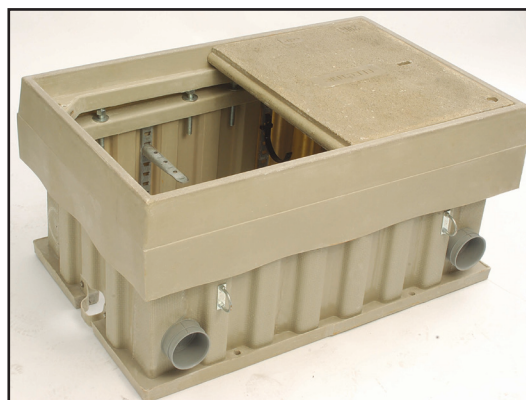
Polymer Concrete



## Quazite® FRP Enclosures

Fiberglass-reinforced polymer, also called FRP, is a special combination of polymer concrete and fiber-reinforced polymer. This hybrid construction, formed from an FRP shell and a polymer concrete ring and cover, delivers a high strength, lightweight, abrasion-resistant product that is protected from ultraviolet rays.

Fiberglass Reinforced Polymer



## PenCell® Enclosures

Structural foam molded high density polyethylene, also called HDPE, is a light weight, high strength plastic molding process that provides outstanding structural integrity and durability. HDPE enclosures are mated with covers made from a variety of materials: HDPE, polymer concrete or steel. This combination creates a highly versatile choice for underground utility enclosures where low weight and high strength are necessary.

High Density Polyethylene (HDPE)



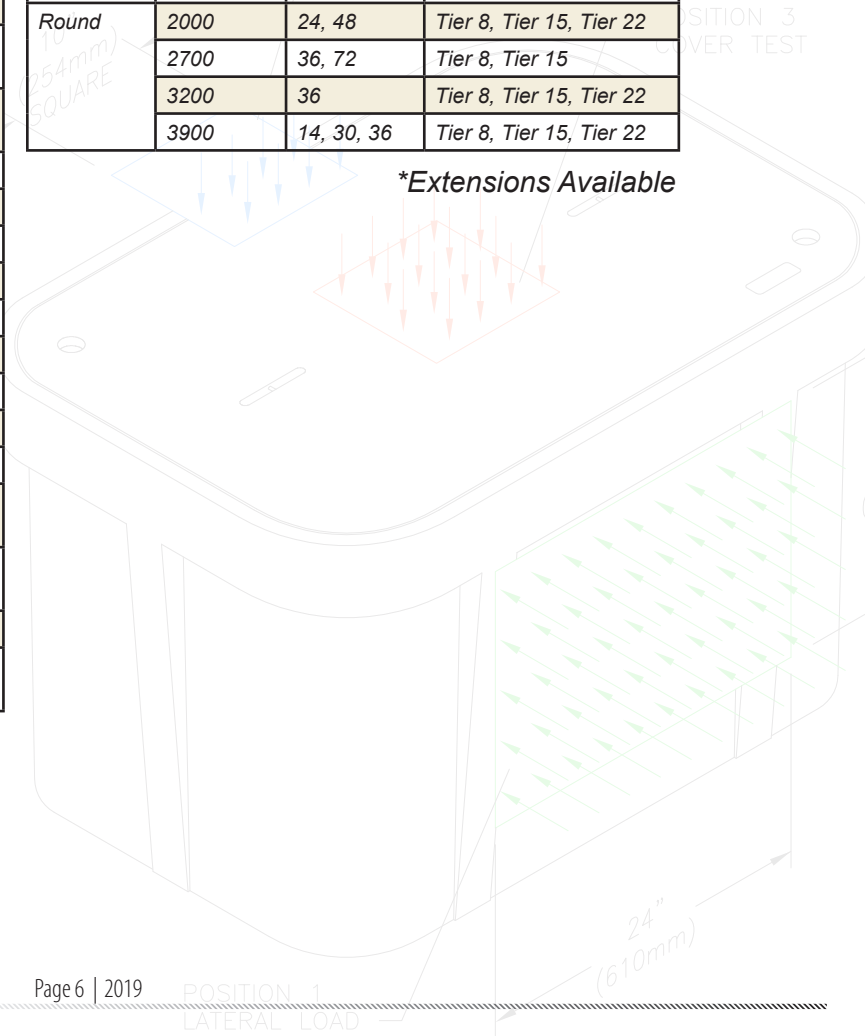
10"  
(254mm)  
SQUARE

# Quazite FRP: Available Size Chart

INTRODUCTION

Style	Size	Depths	Load Rating Options
Straight Wall	6x8	6-3/4	Tier 8
	10x15	12	Tier 8, Tier 15
	11x18	12, 18	Tier 8, Tier 15, Tier 22
	11x21	12	Tier 5, Tier 8, Tier 15
	11x32	12	Tier 5, Tier 8, Tier 15
	12x12	12	Tier 8, Tier 15, Tier 22
	13x24	12, 18	Tier 8, Tier 15, Tier 22
	15x17	12	Tier 8, Tier 15
	15x27	12	Tier 5, Tier 8
	16x22	18	Tier 8, Tier 15
	17x30	12, 18, 22, 30	Tier 8, Tier 15, Tier 22
	24x24	12, 18, 24	Tier 8, Tier 15, Tier 22
	24x36	18, 24, 30	Tier 8, Tier 15, Tier 22
	30x48	18, 24, 36	Tier 8, Tier 15, Tier 22
	30x60	18, 30, 36, 48	Tier 8, Tier 15, Tier 22
	36x36	18, 24, 30, 36, 48	Tier 8, Tier 15, Tier 22
	36x60	18, 24, 30, 36, 48	Tier 8, Tier 15, Tier 22
	36x72	36, 48	Tier 8, Tier 15, Tier 22
Flared Wall	10x15	12, 18	Tier 8, Tier 15
	11x18	12, 18	Tier 8, Tier 15, Tier 22
	11x32	12	Tier 5, Tier 8
	12x12	12, 24	Tier 8, Tier 15
	13x24	12, 18, 24*	Tier 8, Tier 15, Tier 22
	15x17	12	Tier 5, Tier 8, Tier 15
	15x27	12	Tier 5, Tier 8
	16x22	30	Tier 8, Tier 15
	17x30	12, 18, 22, 24, 30, 34*	Tier 8, Tier 15, Tier 22
	24x36	18, 24, 30, 36, 42, 48*	Tier 8, Tier 15, Tier 22
	24x60	24	Tier 5
	30x48	18, 24, 30, 36	Tier 8, Tier 15, Tier 22

Style	Size	Depths	Load Rating Options	
Corrugated Wall	30x48	18, 24, 30, 36, 48*	Tier 8, Tier 15, Tier 22	
	30x60	18, 24, 30, 36, 48	Tier 5, Tier 8, Tier 15, Tier 22	
	36x60	18, 24, 30, 36, 48	Tier 8, Tier 15, Tier 22	
	36x72	18, 24, 30, 36, 48	Tier 8, Tier 15, Tier 22	
	36x96	30, 36, 48	Tier 8, Tier 15, Tier 22	
	48x48	18, 24, 30, 36, 48	Tier 8, Tier 15, Tier 22	
	48x72	18, 24, 30, 36, 48	Tier 8, Tier 15, Tier 22	
	48x78	18, 24, 30, 36, 48	Tier 8, Tier 15, Tier 22	
	48x96	18, 24, 30, 36, 48	Tier 8, Tier 15, Tier 22	
	78x96	36, 48	Tier 8, Tier 15, Tier 22	
	Round (54mm) SQUARE	2000	24, 48	Tier 8, Tier 15, Tier 22
		2700	36, 72	Tier 8, Tier 15
3200		36	Tier 8, Tier 15, Tier 22	
3900		14, 30, 36	Tier 8, Tier 15, Tier 22	

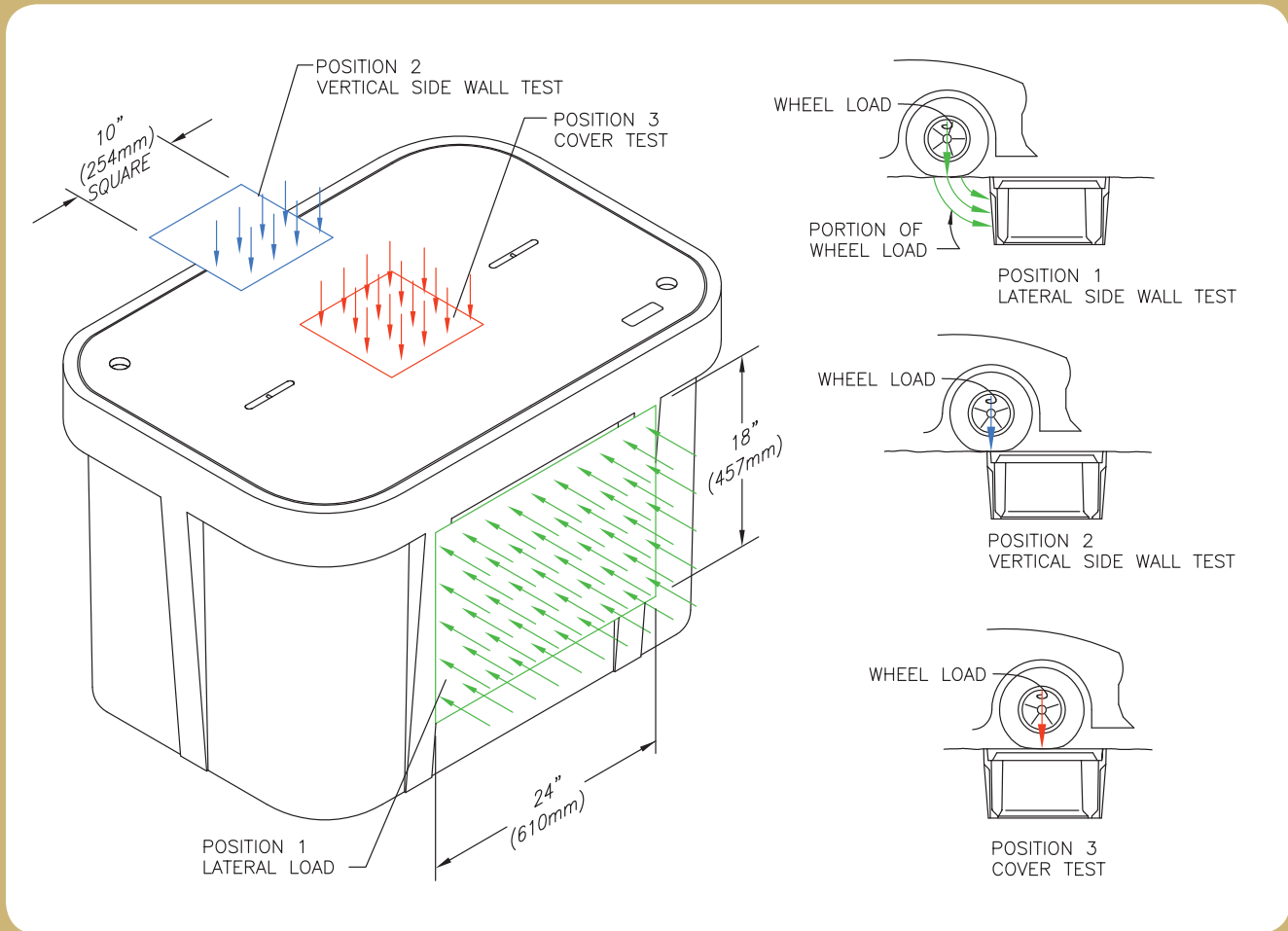


**\*Extensions Available**

## Three-Position Testing – Proven Endurance.

A key requirement outlined in ANSI/SCTE 77 2017 is three-position testing for enclosures. Three-position testing is a method to verify product performance, and is accomplished by test loading at three pre-designated critical points. Quazite products have been tested at each of the three positions and all have met or surpassed requirements.

- The latest copy of the standard may be purchased from ANSI. It may also be viewed in PDF form on SCTE's website at [https://www.scte.org/SCTEDocs/Standards/ANSI\\_SCTE%2077%202017.pdf](https://www.scte.org/SCTEDocs/Standards/ANSI_SCTE%2077%202017.pdf)



## NEC & 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® FRP – ANSI Standard.

All Quazite® FRP enclosures meet or exceed the test provisions of ANSI/SCTE 77 2017 as referenced in the 2005, 2008, 2011 and 2014 NEC. To achieve this, Quazite® FRP 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

### Quazite® FRP – Peace of Mind.

Quazite® FRP enclosures have undergone rigorous physical, environmental, and internal equipment-protection tests and meet the requirements of the ANSI Standard. By adhering to the NEC and ANSI requirements in the enclosure-selection process, users are ensured long service life. Quazite® FRP enclosures offer not only improved manageability and cost-efficiency over other enclosures, but peace of mind as well.

*National Fire Protection Agency, 2005, 2008, 2011 and 2014  
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.  
It may also be viewed in PDF form on SCTE's website at [http://www.scte.org/documents/pdf/Standards/ANSI\\_SCTE%2077%202013.pdf](http://www.scte.org/documents/pdf/Standards/ANSI_SCTE%2077%202013.pdf)*

# FRP Selection Guide

## Style Guide – Tailored Product Variety.

We offer a wide variety of FRP box styles in order to meet your most specialized enclosure needs. Each style offers specific strengths and assets for diverse functionality



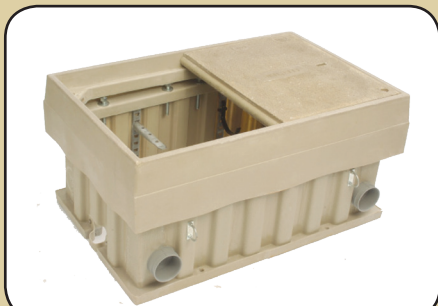
### • FRP Flared Wall Style

This style features a unique combination of polymer concrete and fiber-reinforced polymer. FRP flared wall styles are nestable for compact storage and shipment. The flared wall design also optimizes internal volume and minimizes frost heave.



### • FRP Straight Wall Style

This style features a unique combination of polymer concrete and fiber-reinforced polymer. FRP straight wall boxes are stackable for increased depth. Straight wall design is also easy to remove or adjust in the field.



### • Corrugated Style

A special combination of polymer concrete and fiber-reinforced polymer along with the corrugated walls give this style design flexibility, added strength and durability. Adjust-to-grade or torsion options also available on select sizes.



### • FRP Round Style

This round enclosure features a unique combination of polymer concrete and fiber-reinforced polymer. The shape also prevents a cover from falling into the box.

# Quazite FRP: Available Size Chart

QUAZITE FRP

Style	Size	Depths	Load Rating Options
Straight Wall	6x8	6-3/4	Tier 8
	10x15	12	Tier 8, Tier 15
	11x18	12, 18	Tier 8, Tier 15, Tier 22
	11x21	12	Tier 5, Tier 8, Tier 15
	11x32	12	Tier 5, Tier 8, Tier 15
	12x12	12	Tier 8, Tier 15, Tier 22
	13x24	12, 18	Tier 8, Tier 15, Tier 22
	15x17	12	Tier 8, Tier 15
	15x27	12	Tier 5, Tier 8
	16x22	18	Tier 8, Tier 15
	17x30	12, 18, 22, 30	Tier 8, Tier 15, Tier 22
	24x24	12, 18, 24	Tier 8, Tier 15, Tier 22
	24x36	18, 24, 30	Tier 8, Tier 15, Tier 22
	30x48	18, 24, 36	Tier 8, Tier 15, Tier 22
	30x60	18, 30, 36, 48	Tier 8, Tier 15, Tier 22
	36x36	18, 24, 30, 36, 48	Tier 8, Tier 15, Tier 22
	36x60	18, 24, 30, 36, 48	Tier 8, Tier 15, Tier 22
	36x72	36, 48	Tier 8, Tier 15, Tier 22
Flared Wall	10x15	12, 18	Tier 8, Tier 15
	11x18	12, 18	Tier 8, Tier 15, Tier 22
	11x32	12	Tier 5, Tier 8
	12x12	12, 24	Tier 8, Tier 15
	13x24	12, 18, 24*	Tier 8, Tier 15, Tier 22
	15x17	12	Tier 5, Tier 8, Tier 15
	15x27	12	Tier 5, Tier 8
	16x22	30	Tier 8, Tier 15
	17x30	12, 18, 22, 24, 30, 34*	Tier 8, Tier 15, Tier 22
	24x36	18, 24, 30, 36, 42, 48*	Tier 8, Tier 15, Tier 22
	24x60	24	Tier 5
	30x48	18, 24, 30, 36	Tier 8, Tier 15, Tier 22

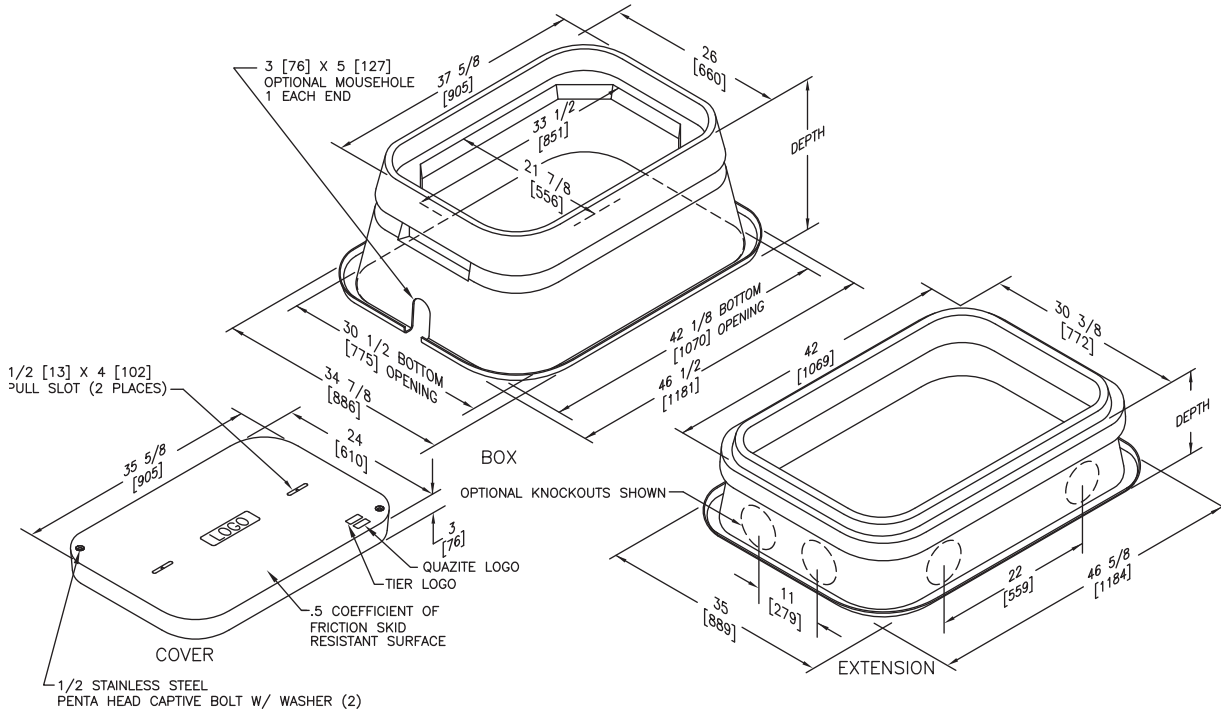
Style	Size	Depths	Load Rating Options
Corrugated Wall	30x48	18, 24, 30, 36, 48*	Tier 8, Tier 15, Tier 22
	30x60	18, 24, 30, 36, 48	Tier 5, Tier 8, Tier 15, Tier 22
	36x60	18, 24, 30, 36, 48	Tier 8, Tier 15, Tier 22
	36x72	18, 24, 30, 36, 48	Tier 8, Tier 15, Tier 22
	36x96	30, 36, 48	Tier 8, Tier 15, Tier 22
	48x48	18, 24, 30, 36, 48	Tier 8, Tier 15, Tier 22
	48x72	18, 24, 30, 36, 48	Tier 8, Tier 15, Tier 22
	48x78	18, 24, 30, 36, 48	Tier 8, Tier 15, Tier 22
	48x96	18, 24, 30, 36, 48	Tier 8, Tier 15, Tier 22
	78x96	36, 48	Tier 8, Tier 15, Tier 22
	Round	2000	24, 48
2700		36, 72	Tier 8, Tier 15
3200		36	Tier 8, Tier 15, Tier 22
3900		14, 30, 36	Tier 8, Tier 15, Tier 22

\*Extensions Available

# Dimensions / Data

## 24" x 36" Flared Wall Style FRP (Nestable) Assembly

**Penta Head Bolts are Standard**



### Covers

DESCRIPTION	TIER	DESIGN / TEST LOAD #	WEIGHT #	PALLET QTY	PART NO.
W/ 2 Bolts	8	8,000 / 12,000	86	20	C10243603A***
W/ 2 Bolts	15	15,000 / 22,500	94	20	C12243603A***
No Bolts	8	8,000 / 12,000	86	20	C00243603A***
W/ 2 Bolts	22	22,500 / 33,750	94	20	C16243603A***
No Bolts, W/CI Reader, Under 90	5	5,000 / 7,500	89	20	C08243603F009
No Bolts, W/CI Reader, Under 90	8	8,000 / 12,000	89	20	C00243603F009

Replace \*\*\* with a logo code found on page 142. See page 145 for other meter lid and touch/radio read cover options.

QUAZITE FRP

# Dimensions / Data

## 24" x 36" Flared Wall Style FRP (Nestable) Assembly (Continued)

**Penta Head Bolts are Standard**

Boxes						
DESCRIPTION	DEPTH	TIER	DESIGN / TEST LOAD #	WEIGHT #	PALLET QTY	PART NO.
Standard Open Bottom	18"	8	8,000 / 12,000	100	5	B10243618A
	24"		8,000 / 12,000	109	5	B10243624A
	30"		8,000 / 12,000	118	5	B10243630A
	36"		8,000 / 12,000	124	4	B10243636A
	42"		8,000 / 12,000	127	3	B10243642A
	48"		8,000 / 12,000	133	3	B10243648A
	18"	15	15,000 / 22,500	105	5	B12243618A
	24"		15,000 / 22,500	114	5	B12243624A
	30"		15,000 / 22,500	123	5	B12243630A
	36"		15,000 / 22,500	129	4	B12243636A
	42"		15,000 / 22,500	132	3	B12243642A
	48"		15,000 / 22,500	138	3	B12243648A
	18"	22	22,500 / 33,750	105	5	B19243618A
	24"		22,500 / 33,750	114	5	B19243624A

To order boxes with 2 standard mouseholes, replace the last character with "M".  
 To order gasketed boxes, replace the last character with "G".  
 Gaskets reduce the inflow of fluids but do not make the enclosure water tight.  
 NOTE: Cover rating cannot exceed box rating.

Bottom Extensions						
DESCRIPTION	DEPTH	TIER	DESIGN / TEST LOAD #	WEIGHT #	PALLET QTY	PART NO.
8" - Tier 8	8"	8	8,000 / 12,000	46	6	E00243608A
8" - Tier 15	8"	15	15,000 / 22,500	46	6	E02243608A
16" - Tier 8	16"	8	8,000 / 12,000	55	5	E00243616A
16" - Tier 15	16"	15	15,000 / 22,500	63	5	E02243616A