Fiberglass/Polymer Concrete & HDPE Products

The Standard to Which Others are Measured.

HIGHLINE
PRODUCTS

HIGHLINE
PRODUCTS

HIGHLINE PRODUCTS is your ONE-STOP SOURCE for all your Underground Enclosures, Primary Cabinets, Transformer and Switchgear pads. Highline has been servicing our Industry for over 30 years.

We serve the following market customers:

- Electric Utilities
- Telephone Utilities
- Communication Companies
- Dept. of Transportation: Traffic Signal and Roadway Lighting

- Waterworks
- Gas
- Irrigation
- Electric Contractors

With these products:

- Transformer box pads and flat pads
- Switchgear box pads
- Primary sectionalizing cabinets
- Fiberglass pole top extensions
- HDPE plastic pull/splice boxes
- Fiberglass groundsleeves
- Fiberglass/polymer concrete handholes/splice boxes
- All polymer concrete handholes/splice boxes
- Fiberglass/polymer concrete vaults
- Polymer concrete flat transformer pads
- Valve boxes, meter boxes

This catalog contains our Fiberglass/Polymer Concrete Splice Boxes and Vaults, all Polymer Concrete Splice Boxes, Polymer Concrete Flat Pads, and HDPE Splice Boxes. Please refer to our other catalogs for additional products, or visit us on the web at www.highlineproducts.com for a comprehensive product offering.

Thank you for your interest in HIGHLINE PRODUCTS. Please contact us through our local manufacturers' representative or distributor, or by calling us at (781) 736-0002.

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Waltham, MA 02453-1480
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Regional Office:
151 Daniel Boone Lane
Whitesboro, TX 76273
Tel: (940) 668-8389

Contents

Specifications

Polymer Concrete

The pull/splice box ring and cover shall be constructed of polymer concrete consisting of sand and aggregate bound together with a polymer resin. Internal reinforcement may be provided by means of steel, fiberglass, or a combination of the two. The polymer concrete material is to have the following minimum allowable properties to be accepted for use:

Ultraviolet Exposure:	Tested in accordance with ASTM G-53 using an U.V.A. 340 bulb.
Flammability Test:	Tested in accordance with ASTM D-635.
Accelerated Service:	Tested in accordance with Procedure E, ASTM D-756.
Water Absorption:	Tested in accordance with Procedure E, ASTM D-570, Section 5,6,1, and 6.5.
Impact Resistance:	72 foot-pounds in accordance with ASTM D-2444 using a "C" Tup.
Compressive Strength:	11,000 psi tested in accordance with ASTM C-109 loaded at a rate between 28,000 lbs. to 41,000 lbs. per minute.
Flexural Strength:	7,500 psi tested in accordance with ASTM D-790.
Tensile Strength:	1,700 psi tested in accordance with ASTM C-496.
Skid Resistance:	0.50 coefficient of friction in accordance with ASTM C-1028.
Chemical Resistance:	Tested according to ASTM D-543, Section 7, Procedure 1 using the following chemicals:

Sodium Chloride	5%
Sulfuric Acid	0.1N
Hydrochloric Acid	0.2N
Sodium Sulfate	0.1N
Sodium Carbonate	0.1N
Sodium Hydroxide	0.1N
Transformer Oil Per ASTM D-543	
Kerosene Per ASTM D-543	

Fiberglass

MATERIALS: BASE

Thickness Tolerance	± 1/16″ to 1/8″
Flexural Strength	17,000 – 18,000 psi
Flex Modulus	.59 – .65 psi x10^6
Tensile Strength	9,100 – 10,500 psi
Impact Strength (notched Izod)	15 – 17 ft lbs/inch
Glass Length	1″ random orientation
Glass Fiber Orientation	Non Random
Resin Type	Non-Isophthalic
Filler	Gypsum
Water Absorption	≤ 1%

Design Load Requirements

The standard product line is designed and manufactured to perform under the following load rating designations:

- **10,400 # W.U.C. 3.6** – 10,400-pound load applied over a 10″ x 10″ (100 square inch) area. This is in accordance with W.U.C. (Western Underground Committee recommended guide # 3.6 Non-Concrete Enclosures). For non-deliberate, incidental light vehicular traffic.

- **20,800 # W.U.C. 3.6** – 20,800-pound load applied over a 10″ x 10″ (100 square inch) area. This is in accordance with most Department of Transportation specifications for products installed in their right-of-way behind the curb line. For non-deliberate, incidental heavy vehicular traffic.

Product Test Procedures

The following test methods have been used in evaluating the physical and chemical properties of the hybrid fiberglass/polymer concrete product line.

Impact Properties (Izod)	ASTM D 256	ASTM D 2444
Compressive Strength	ASTM C 109	
Tensile Strength	ASTM C 190	
Flexural Strength	ASTM C 293	
Chemical Resistance	ASTM D 543	
Simulated Sunlight	ASTM D 1501	
Vicat Softening Temperature		ASTM D 1525
Water Absorption	ASTM D 570	
Ultra Violet Resistance	ASTM G 53	
Brittleness Temperature	ASTM D 746	
Flammability ASTM D 635		
Static Coefficient of Friction		ASTM C 1028

Polymer Concrete and Fiberglass Polymer Concrete Products

HIGHLINE PRODUCTS underground enclosures are designed for use in pulling, splicing, and storing cable, as well as for access to underground power, communications, CATV, or water lines. They are an **alternative to traditional concrete service boxes and vaults**. Such products have been proven for over 30 years.

HIGHLINE PRODUCTS concrete-alternative underground enclosures come in two styles:
1. **Hybrid:** polymer concrete cover and supporting ring for traffic bearing molded to a fiberglass body for light weight.
2. **All polymer concrete.**

Traditional concrete and polymer concrete both consist basically of sand, aggregate, and a bonding material. In traditional concrete, the bonding material is Portland cement and water; in polymer concrete, it is resin epoxy.

The polymer concrete is also reinforced with fiberglass which results in a product that is three times the strength of traditional concrete with the additional advantage of much less weight than traditional concrete.
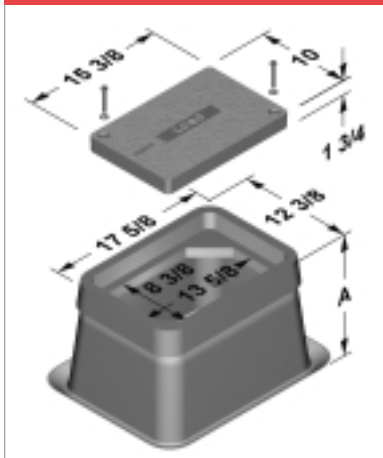
Why choose concrete-alternative enclosures?
1. **Lightweight** - as much as 90% lighter than concrete enclosures of the same size.
2. **Cost effective** - usually lower installed cost and low life cycle costs.
3. **Non-conductive and non-flammable** - polymer concrete and fiberglass do not conduct electricity, therefore affording a high degree of safety.
4. **Corrosion resistant** - laughs at acids. oils, gasoline, weathering and other forms of deterioration.
5. **Stable under freeze-thaw conditions.**
6. **Capable of withstanding non-deliberate traffic** of 20,000 pounds and more.

The standard of the industry is **Western Underground Committee Guide 3.6 (WUC 3.6).** This document spells out the specifications concerning load ratings and other performance requirements of non-traditional concrete products Enclosures made by **HIGHLINE PRODUCTS** meet these specifications.

This catalog contains our complete product offering for your selection of boxes and vaults for your project:

1. The hybrid (polymer concrete ring and cover with fiberglass body) handhole series through 30″ x 48″: CHA.
2. The hybrid series of larger vaults from 30″ x 48″ through 48″ x 96″: CVA.
3. The all-polymer concrete (ring, cover, and body) series of handholes through 30″ x 48″: PHA.
4. The all-polymer concrete series of larger vaults from 30″ x 48″ through 48″ x 96″: PVA.
5. Polymer concrete flat pads.

To order please call **(781) 736-0002** or visit our web site at **www.highlineproducts.com**

Fiberglass/Polymer Concrete Flushmount Pull Boxes

10 x 15 x 12

10 x 15 x 18

PRODUCT FEATURES

- Lightweight.
- 10K and 20K load ratings available.
- Loading characteristics conform to the Western Underground Committee recommended guide WUC 3.6.
- Non-conductive.

- Constructed of fire-retardant materials.
- Cable entrances available or are easily cut in field.
- Skid resistant covers.
- Logo as required.
- Penta or hex head bolts.

- Flared design for nestability.
- Can be manufactured in decorative colors.
- Interchangeable covers.
- Available with solid base and gaskets upon request.

Catalog Number	Rating	Depth	Weight	Cover	Box
CHA101512S	10k lbs.	12	43	Polymer Concrete	Fiberglass
CHA101512H	20k lbs.	12	46	Polymer Concrete	Fiberglass
CHA101518S	10k lbs.	18	48	Polymer Concrete	Fiberglass
CHA101518H	20k lbs.	18	51	Polymer Concrete	Fiberglass

See page 16 for available options and ordering.

Polymer Concrete Flushmount Pull Boxes

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- Skid resistant covers.
- Logo as required.
- Penta or hex head bolts.
- Can be manufactured in decorative colors.
- Interchangeable covers.

- Available with solid base and gaskets upon request.
- Straight wall design for minimal excavation.
- Stackable.

Catalog Number	Rating	Depth	Weight	Cover	Box
PHA101512S	10k lbs.	12	40	Polymer Concrete	Polymer Concrete
PHA101512H	20k lbs.	12	41	Polymer Concrete	Polymer Concrete
PHA101518S	10k lbs.	18	49	Polymer Concrete	Polymer Concrete
PHA101518H	20k lbs.	18	50	Polymer Concrete	Polymer Concrete

See page 16 for available options and ordering.

Fiberglass/Polymer Concrete Flushmount Pull Boxes

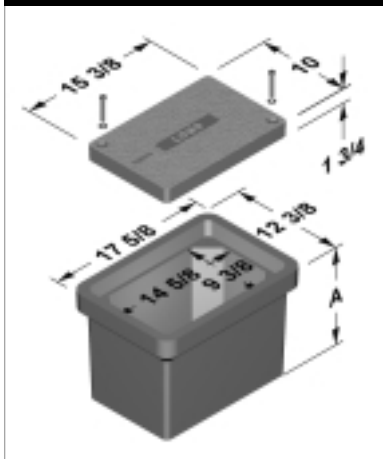

11 x 18 x 12

11 x 18 x 18

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- Penta or hex head bolts.

- Flared design for nestability.
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- Interchangeable covers.
- Available with solid base and gaskets upon request.

Catalog Number	Rating	Depth	Weight	Cover	Box
CHA111812S	10k lbs.	12	48	Polymer Concrete	Fiberglass
CHA111812H	20k lbs.	12	53	Polymer Concrete	Fiberglass
CHA111818S	10k lbs.	18	55	Polymer Concrete	Fiberglass
CHA111818H	20k lbs.	18	60	Polymer Concrete	Fiberglass

See page 16 for available options and ordering.

Polymer Concrete Flushmount Pull Boxes

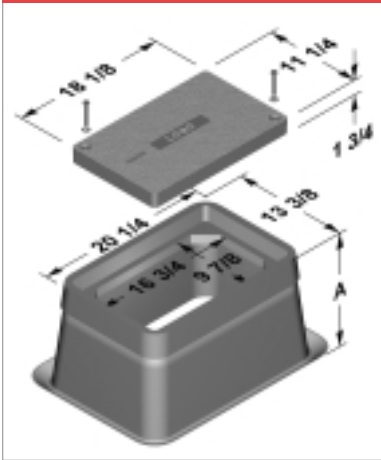### 11 x 18 x 12

11 x 18 x 18

PRODUCT FEATURES

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- Can be manufactured in decorative colors.
- Interchangeable covers.

- Available with solid base and gaskets upon request.
- Straight wall design for minimal excavation.
- Stackable.

Catalog Number	Rating	Depth	Weight	Cover	Box
PHA111812S	10k lbs.	12	64	Polymer Concrete	Polymer Concrete
PHA111812H	20k lbs.	12	67	Polymer Concrete	Polymer Concrete
PHA111818S	10k lbs.	18	70	Polymer Concrete	Polymer Concrete
PHA111818H	20k lbs.	18	73	Polymer Concrete	Polymer Concrete

See page 16 for available options and ordering.

Fiberglass/Polymer Concrete Flushmount Pull Boxes

12 x 12 x 12

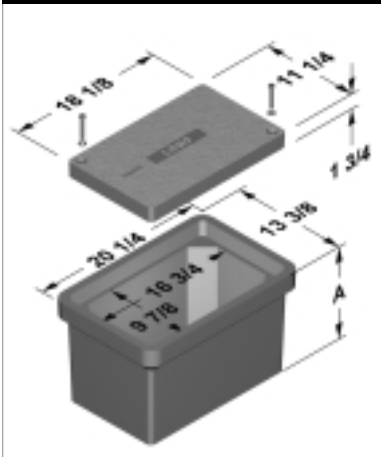**12 x 12 x 18**

12 x 12 x 24

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- Skid resistant covers.
- Logo as required.
- Penta or hex head bolts.

- Flared design for nestability.
- Can be manufactured in decorative colors.
- Interchangeable covers.
- Available with solid base and gaskets upon request.

Catalog Number	Rating	Depth	Weight	Cover	Box
CHA121212S	10k lbs.	12	36	Polymer Concrete	Fiberglass
CHA121212H	20k lbs.	12	39	Polymer Concrete	Fiberglass
CHA121218S	10k lbs.	18	43	Polymer Concrete	Fiberglass
CHA121218H	20k lbs.	18	47	Polymer Concrete	Fiberglass
CHA121224S	10k lbs.	24	50	Polymer Concrete	Fiberglass
CHA121224H	20k lbs.	24	54	Polymer Concrete	Fiberglass

See page 16 for available options and ordering.

Polymer Concrete Flushmount Pull Boxes

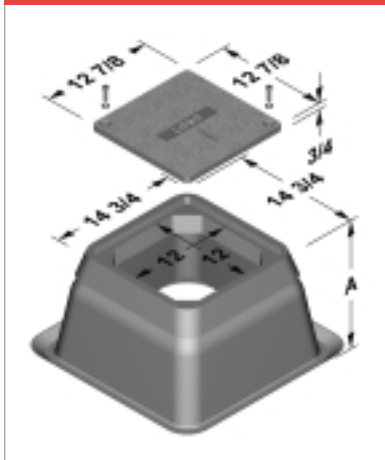**12 x 12 x 12**

12 x 12 x 18

12 x 12 x 24

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- Penta or hex head bolts.
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- Straight wall design for minimal excavation.
- Stackable.

Catalog Number	Rating	Depth	Weight	Cover	Box
PHA121212S	10k lbs.	12	43	Polymer Concrete	Polymer Concrete
PHA121212H	20k lbs.	12	44	Polymer Concrete	Polymer Concrete
PHA121218S	10k lbs.	18	55	Polymer Concrete	Polymer Concrete
PHA121218H	20k lbs.	18	56	Polymer Concrete	Polymer Concrete
PHA121224S	10k lbs.	24	77	Polymer Concrete	Polymer Concrete
PHA121224H	20k lbs.	24	78	Polymer Concrete	Polymer Concrete

See page 16 for available options and ordering.

Fiberglass/Polymer Concrete Flushmount Pull Boxes

13 x 24 x 12
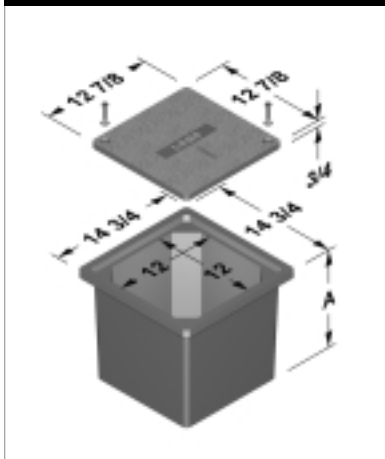
13 x 24 x 15

13 x 24 x 18

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- Penta or hex head bolts.

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- Interchangeable covers.
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Catalog Number	Rating	Depth	Weight	Cover	Box
CHA132412S	10k lbs.	12	69	Polymer Concrete	Fiberglass
CHA132412H	20k lbs.	12	93	Polymer Concrete	Fiberglass
CHA132415S	10k lbs.	15	72	Polymer Concrete	Fiberglass
CHA132415H	20k lbs.	15	96	Polymer Concrete	Fiberglass
CHA132418S	10k lbs.	18	75	Polymer Concrete	Fiberglass
CHA132418H	20k lbs.	18	99	Polymer Concrete	Fiberglass

See page 16 for available options and ordering.

Polymer Concrete Flushmount Pull Boxes

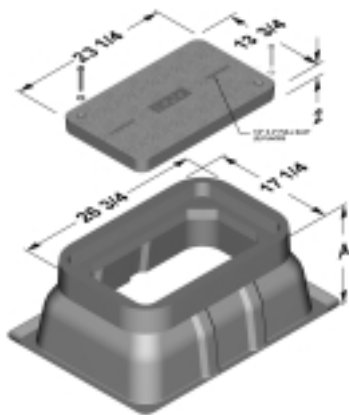## 13 x 24 x 12

13 x 24 x 15

13 x 24 x 18

PRODUCT FEATURES

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- Interchangeable covers.

- Available with solid base and gaskets upon request.
- Straight wall design for minimal excavation.
- Stackable.

Catalog Number	Rating	Depth	Weight	Cover	Box
PHA132412S	10k lbs.	12	87	Polymer Concrete	Polymer Concrete
PHA132412H	20k lbs.	12	108	Polymer Concrete	Polymer Concrete
PHA132415S	10k lbs.	15	92	Polymer Concrete	Polymer Concrete
PHA132415H	20k lbs.	15	114	Polymer Concrete	Polymer Concrete
PHA132418S	10k lbs.	18	96	Polymer Concrete	Polymer Concrete
PHA132418H	20k lbs.	18	117	Polymer Concrete	Polymer Concrete

See page 16 for available options and ordering.

To order please call **(781) 736-0002** or visit our web site at www.highlineproducts.com

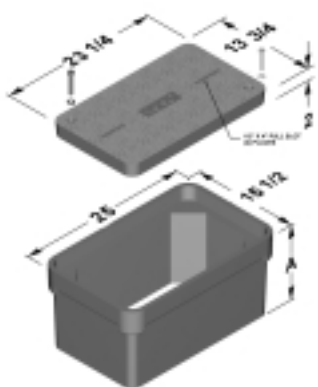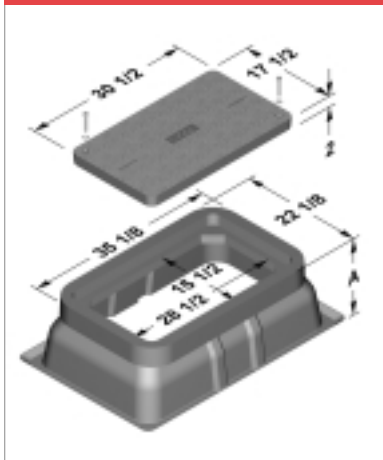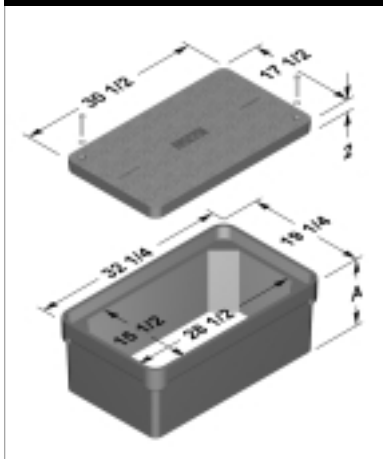# Fiberglass/Polymer Concrete Flushmount Pull Boxes

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- Constructed of fire-retardant materials.
- Cable entrances available or are easily cut in field.
- Skid resistant covers.
- Logo as required.
- Penta or hex head bolts.
- Flared design for nestability.
- Can be manufactured in decorative colors.
- Interchangeable covers.
- Available with solid base and gaskets upon request.

Catalog Number	Rating	Depth	Weight	Cover	Box
CHA173012S	10k lbs.	12	100	Polymer Concrete	Fiberglass
CHA173012H	20k lbs.	12	135	Polymer Concrete	Fiberglass
CHA173018S	10k lbs.	18	109	Polymer Concrete	Fiberglass
CHA173018H	20k lbs.	18	144	Polymer Concrete	Fiberglass
CHA173024S	10k lbs.	24	118	Polymer Concrete	Fiberglass
CHA173024H	20k lbs.	24	154	Polymer Concrete	Fiberglass

See page 16 for available options and ordering.

17 x 30 x 12

17 x 30 x 18

17 x 30 x 24

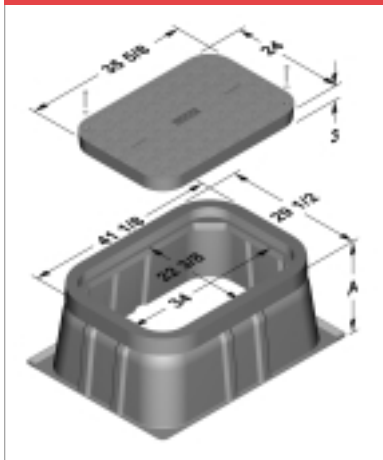# Polymer Concrete Flushmount Pull Boxes

PRODUCT FEATURES

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- Non-conductive.
- Constructed of fire-retardant materials.
- Skid resistant covers.
- Logo as required.
- Penta or hex head bolts.
- Can be manufactured in decorative colors.
- Interchangeable covers.
- Available with solid base and gaskets upon request.
- Straight wall design for minimal excavation.
- Stackable.

Catalog Number	Rating	Depth	Weight	Cover	Box
PHA173012S	10k lbs.	12	122	Polymer Concrete	Polymer Concrete
PHA173012H	20k lbs.	12	156	Polymer Concrete	Polymer Concrete
PHA173018S	10k lbs.	18	149	Polymer Concrete	Polymer Concrete
PHA173018H	20k lbs.	18	183	Polymer Concrete	Polymer Concrete
PHA173024S	10k lbs.	24	177	Polymer Concrete	Polymer Concrete
PHA173024H	20k lbs.	24	211	Polymer Concrete	Polymer Concrete

See page 16 for available options and ordering.

17 x 30 x 12

17 x 30 x 18

17 x 30 x 24

Fiberglass/Polymer Concrete Flushmount Pull Boxes

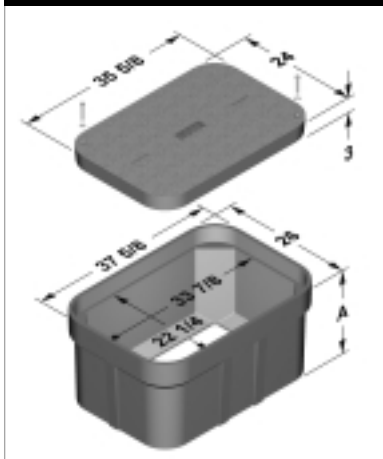| 24 x 36 x 18 |
| 24 x 36 x 24 |
| 24 x 36 x 30 |
| 24 x 36 x 36 |

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- Cable entrances available or are easily cut in field.
- Skid resistant covers.
- Logo as required.
- Penta or hex head bolts.
- Flared design for nestability.
- Can be manufactured in decorative colors.
- Interchangeable covers.
- Available with solid base and gaskets upon request.

Catalog Number	Rating	Depth	Weight	Cover	Box
CHA243618S	10k lbs.	18	169	Polymer Concrete	Fiberglass
CHA243618H	20k lbs.	18	234	Polymer Concrete	Fiberglass
CHA243624S	10k lbs.	24	188	Polymer Concrete	Fiberglass
CHA243624H	20k lbs.	24	253	Polymer Concrete	Fiberglass
CHA243630S	10k lbs.	30	189	Polymer Concrete	Fiberglass
CHA243630H	20k lbs.	30	257	Polymer Concrete	Fiberglass
CHA243636S	10k lbs.	36	199	Polymer Concrete	Fiberglass
CHA243636H	20k lbs.	36	265	Polymer Concrete	Fiberglass

Polymer Concrete Flushmount Pull Boxes

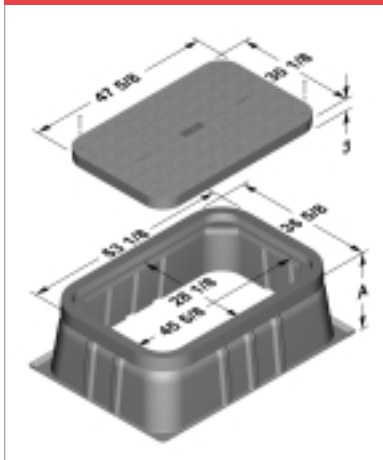| 24 x 36 x 18 |
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| 24 x 36 x 30 |
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- Logo as required.
- Penta or hex head bolts.
- Can be manufactured in decorative colors.
- Interchangeable covers.
- Available with solid base and gaskets upon request.
- Straight wall design for minimal excavation.
- Stackable.

Catalog Number	Rating	Depth	Weight	Cover	Box
PHA243618S	10k lbs.	18	229	Polymer Concrete	Fiberglass
PHA243618H	20k lbs.	18	291	Polymer Concrete	Fiberglass
PHA243624S	10k lbs.	24	268	Polymer Concrete	Fiberglass
PHA243624H	20k lbs.	24	330	Polymer Concrete	Fiberglass
PHA243630S	10k lbs.	30	284	Polymer Concrete	Fiberglass
PHA243630H	20k lbs.	30	346	Polymer Concrete	Fiberglass
PHA243636S	10k lbs.	36	323	Polymer Concrete	Fiberglass
PHA243636H	20k lbs.	36	385	Polymer Concrete	Fiberglass

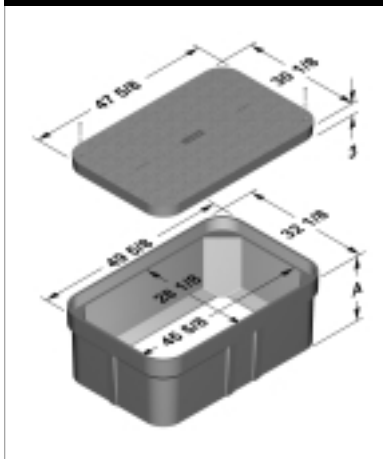# Fiberglass/Polymer Concrete Flushmount Pull Boxes

PRODUCT FEATURES

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- Constructed of fire-retardant materials.
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- Skid resistant covers.
- Logo as required.
- Penta or hex head bolts.

- Flared design for nestability.
- Can be manufactured in decorative colors.
- Interchangeable covers.
- Available with solid base and gaskets upon request.

| 30 x 48 x 18 |
| 30 x 48 x 24 |
| 30 x 48 x 30 |
| 30 x 48 x 36 |

Catalog Number	Rating	Depth	Weight	Cover	Box
CHA304818S	10k lbs.	18	288	Polymer Concrete	Fiberglass
CHA304818H	20k lbs.	18	309	Polymer Concrete	Fiberglass
CHA304824S	10k lbs.	24	308	Polymer Concrete	Fiberglass
CHA304824H	20k lbs.	24	330	Polymer Concrete	Fiberglass
CHA304830S	10k lbs.	30	318	Polymer Concrete	Fiberglass
CHA304830H	20k lbs.	30	340	Polymer Concrete	Fiberglass
CHA304836S	10k lbs.	36	338	Polymer Concrete	Fiberglass
CHA304836H	20k lbs.	36	361	Polymer Concrete	Fiberglass

See page 16 for available options and ordering.

Polymer Concrete Flushmount Pull Boxes

PRODUCT FEATURES

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- Skid resistant covers.
- Logo as required.
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- Can be manufactured in decorative colors.
- Interchangeable covers.

- Available with solid base and gaskets upon request.
- Straight wall design for minimal excavation.
- Stackable.

| 30 x 48 x 18 |
| 30 x 48 x 24 |
| 30 x 48 x 30 |
| 30 x 48 x 36 |

Catalog Number	Rating	Depth	Weight	Cover	Box
PHA304818S	10k lbs.	18	345	Polymer Concrete	Fiberglass
PHA304818H	20k lbs.	18	363	Polymer Concrete	Fiberglass
PHA304824S	10k lbs.	24	396	Polymer Concrete	Fiberglass
PHA304824H	20k lbs.	24	414	Polymer Concrete	Fiberglass
PHA304830S	10k lbs.	30	448	Polymer Concrete	Fiberglass
PHA304830H	20k lbs.	30	467	Polymer Concrete	Fiberglass
PHA304836S	10k lbs.	36	503	Polymer Concrete	Fiberglass
PHA304836H	20k lbs.	36	521	Polymer Concrete	Fiberglass

See page 16 for available options and ordering.

PRODUCT FEATURES

- Constructed of fire-retardant materials.

- Skid resistant covers.

- Pulling eyes and cable racking installed upon request.

- Cable entrances available or are easily cut in field.

- Logo as required.

- Two piece and three piece covers on large size vaults.

- Penta or hex head bolts.

- 10K and 20K load ratings available.

- Loading characteristics conform to the Western Underground Committee recommended guide WUC 3.6.

- Non-conductive.

Applications:
- Pulling, splicing, and storing cable
- Waterworks installations

"A" and "B" are cover dimensions
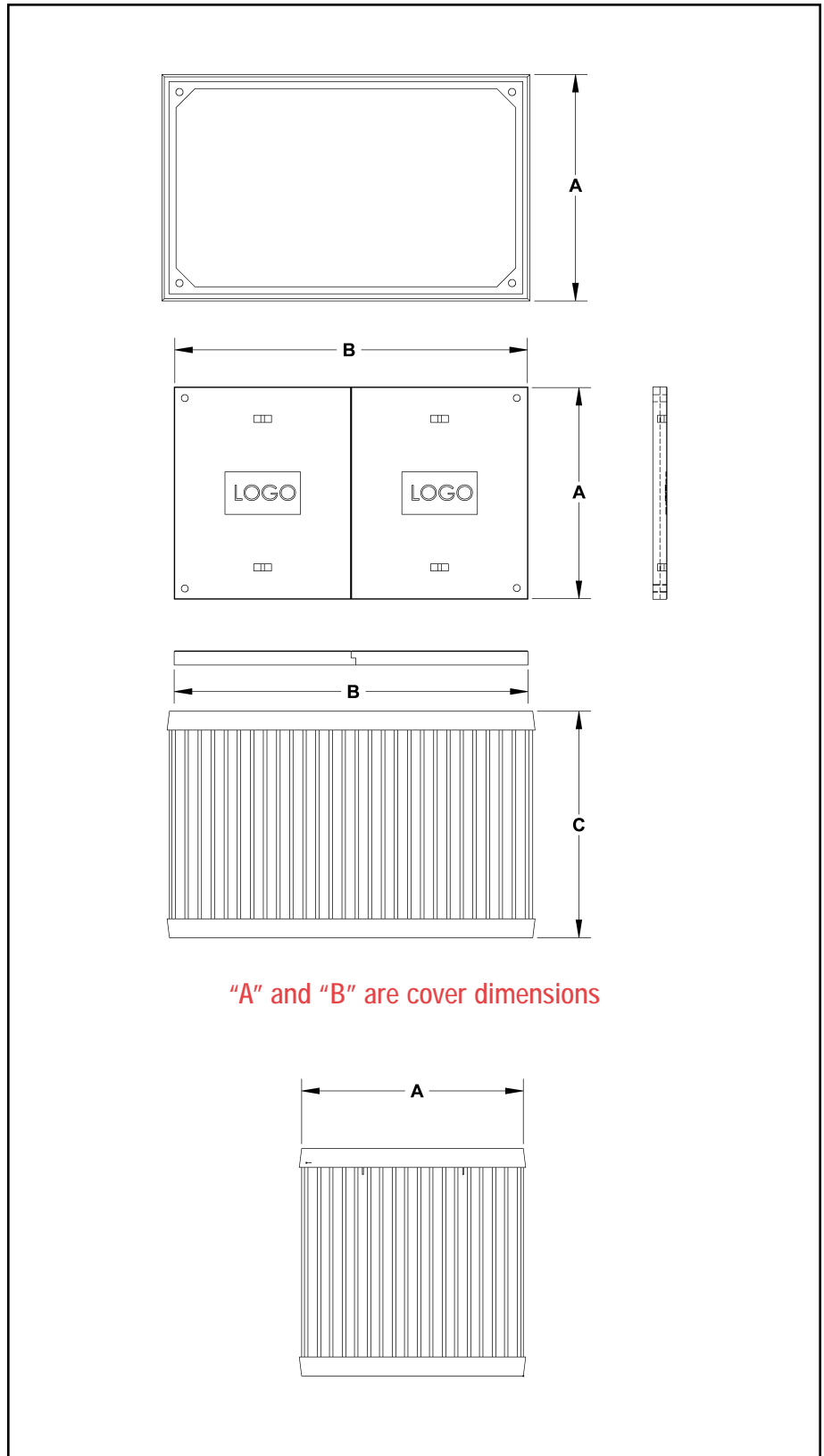
Consult factory for all Polymer Concrete Vaults.

CVA = Vault and cover assembly

NOMINAL COVER DIMENSIONS

| Model Number:	A Width	B Length	C Depth
CVA304818	30	48	18
CVA304824	30	48	24
CVA304830	30	48	30
CVA304836	30	48	36
CVA304848	30	48	48
CVA306018	30	60	18
CVA306024	30	60	24
CVA306030	30	60	30
CVA306036	30	60	36
CVA306048	30	60	48
CVA366018	36	60	18
CVA366024	36	60	24
CVA366030	36	60	30
CVA366036	36	60	36
CVA366048	36	60	48
CVA367236	36	72	36
CVA484836	48	48	36
CVA484848	48	48	48
CVA487236	48	72	36
CVA487248	48	72	48
CVA487836	48	78	36
CVA487848	48	78	48
CVA489630	48	96	30
CVA489636	48	96	36
CVA489648	48	96	48

Add "S" after Model Number for standard 10K cover/box.
Add "H" after Model Number for heavy duty 20K cover/box.
Custom sizes available upon request.

Available options for all vaults include: Custom Logo, EMS Marker, Terminators, Cable Racks, Knockouts, Pulling Eyes, Mouseholes, Solid Vault & Base.

Fiberglass/Polymer Concrete Flat Pad
PBP Series
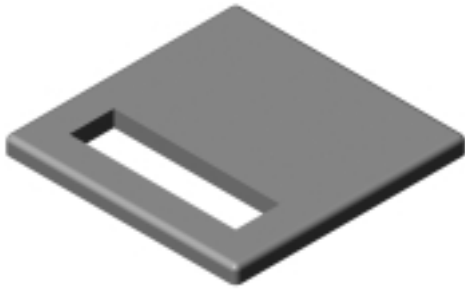
PRODUCT FEATURES

- Constructed of fire-retardant materials.
- Light weight, high strength.
- Molded-in unistrut, or star insert eliminates the need for precise unit positioning.
- Has greater tensile and compression strength than concrete.
- Exceptional resistance to weathering and chemicals.
- Will not absorb moisture. Unaffected by freeze/thaw cycles.
- For single phase and three phase pad mount transformers.
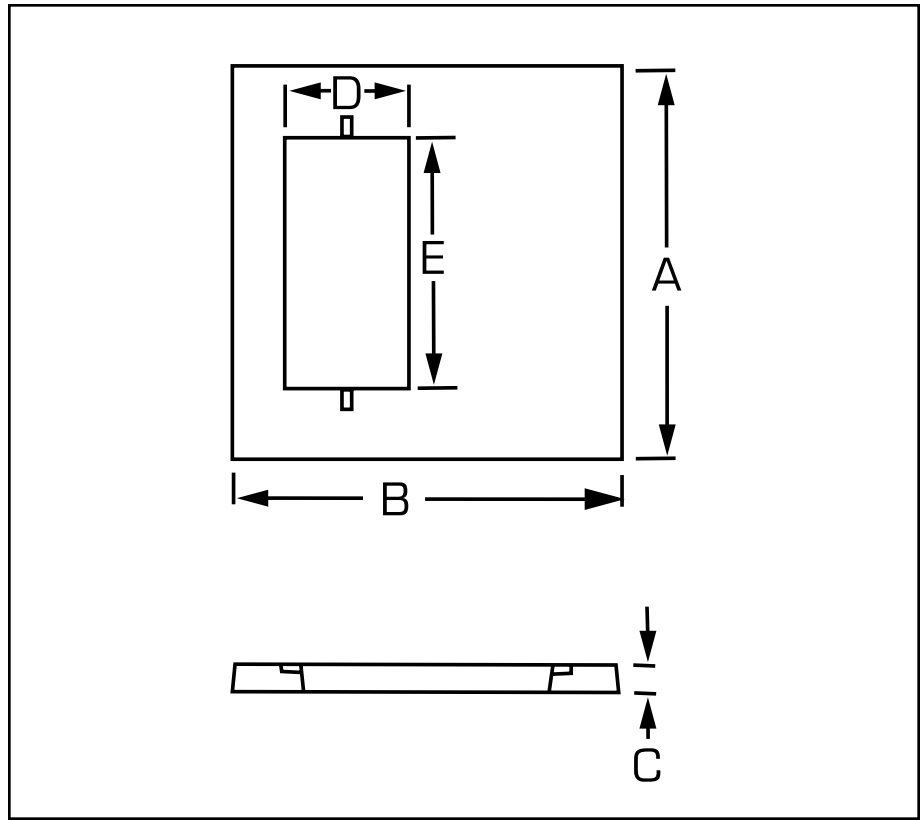
Model Number:	A Length	B Width	C Depth	D x E = Cable Opening
PBP 40-53-04-1227	40	53	04	12 x 27
PBP 42-42-03-1225	42	42	03	12 x 25
PBP 42-42-03-1227	42	42	03	12 x 27
PBP 42-42-04-1225	42	42	04	12 x 25
PBP 42-48-03-1225	42	48	03	12 x 25
PBP 42-42-04-1227	42	42	04	12 x 27
PBP 42-48-04-1225	42	48	04	12 x 25
PBP 44-56-03-1326	44	56	03	13 x 26
PBP 44-56-04-1326	44	56	04	13 x 26
PBP 44-57-04-1529	44	57	04	15 x 29
PBP 48-48-04-1225	48	48	04	12 x 25
PBP 59-86-04-1636	86	59	04	16 x 36
PBP 72-72-04-1548	72	72	04	15 x 48

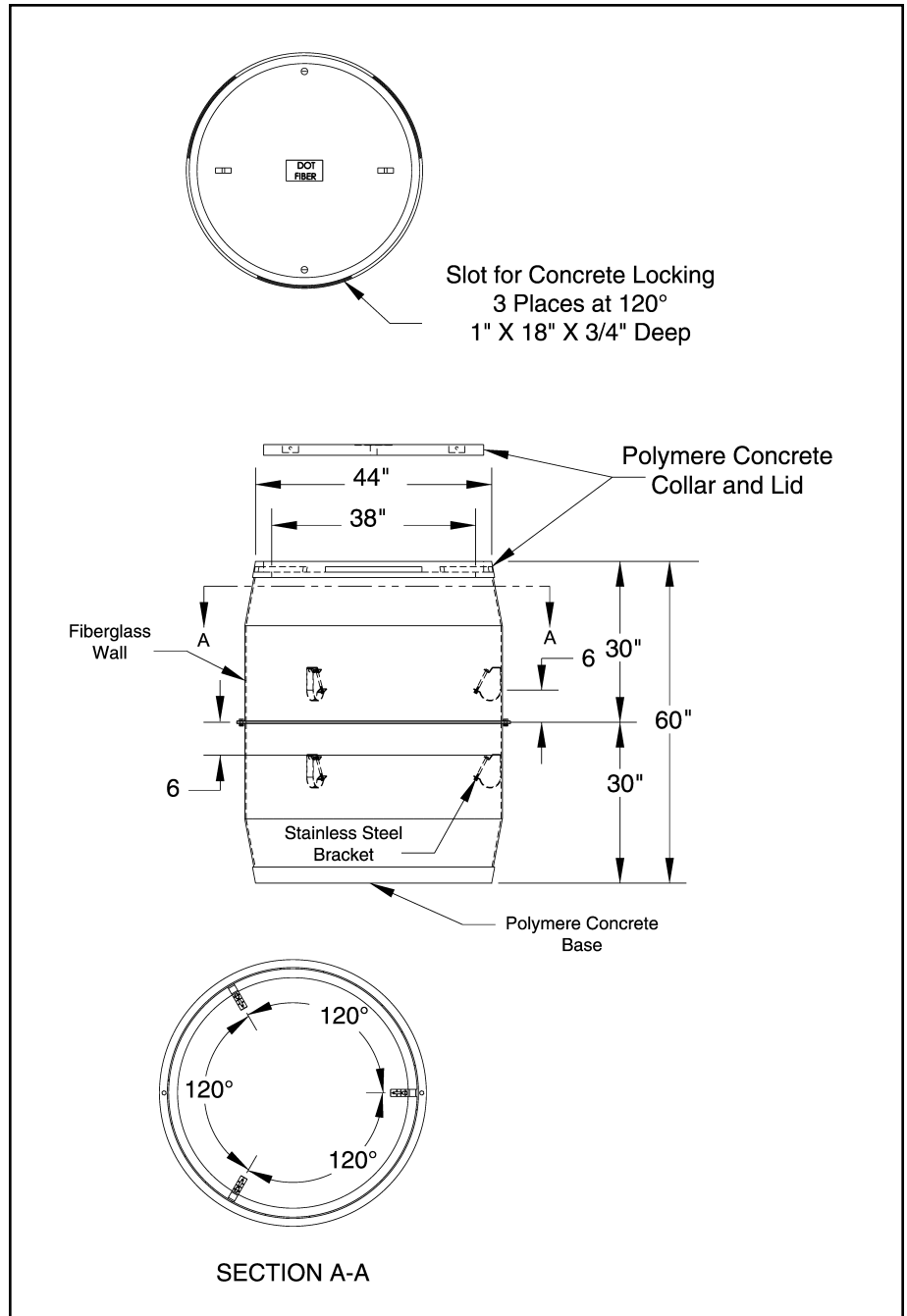Custom sizes and opening available upon request.
Highline Products has a complete line of Fiberglass Box Pads and Equipment Pads. Please see our other catalog or visit us on the web for these products.

PRODUCT FEATURES

- Used for off-road applications requiring 45,000lb load rating.

- Certified per ASTM C857-87 for an A-16 loading.

- Approved by N.J. DOT Bureau of Electrical Engineering.

- Round design facilitates coiling and storage.

- Non-conductive.

- Constructed of fire-retardant materials.

- Stainless steel hardware.

- Quick release stainless coiling brackets standard.

- Skid resistant covers.

- Logo as required.

- Penta or hex head bolts.

- Exceptional resistance to weathering and chemicals.

Slot for Concrete Locking
3 Places at 120°
1" X 18" X 3/4" Deep

Polymere Concrete Collar and Lid

44"

38"

Fiberglass Wall

A

A

6

30"

60"

30"

6

Stainless Steel Bracket

Polymere Concrete Base

120°

120°

120°

SECTION A-A

NOMINAL COVER DIMENSIONS

Model Number:	A Diameter	B Depth	C Cover
PHH 386000AA	44	60	38

Fiberglass/Polymer Concrete Ordering Information

X	X	X	W W L L D D	X	X	X

Denotes Material
C = Combination Fiberglass/Polymer Concrete
P = All Polymer Concrete

Denotes Style
H = Handhole
V = Vault

Denotes Type
A = Assembly
B = Box only
C = Cover only
D = Box only, with Base
E = Assembly, with Base

Denotes Dimensions
For Box = Cover Dimension + Depth
Each Field = 2 digits   Ex. 4″ = 04

Denotes Load Rating
S = 10,000 Lbs.
H = 20,000 Lbs.

Denotes Logos for cover

B = Blank	S = Traffic Signal
C = CATV	T = Telephone
D = Double Logo	W = Water
E = Electric	G = Gas
O = Other (please designate)	L = Street Lighting
	M = Communications

Denotes Hardware
1 = Pentabolts
2 = Hex Bolts
3 = Pentabolts, 2 part cover
4 = Hex Bolts, 2 part cover

Options
Mouseholes
Knockouts
Terminators
Pulling eyes
Electronic markers

Flat Pad Ordering Information

P	B	P	_ _ _ _ _ _	_ _ _ _	

A = Length
B = Width
C = Depth

Opening
D = Width
E = Length

Tie Down Method
S = 3/8″ Star Inserts
U = Unistrut
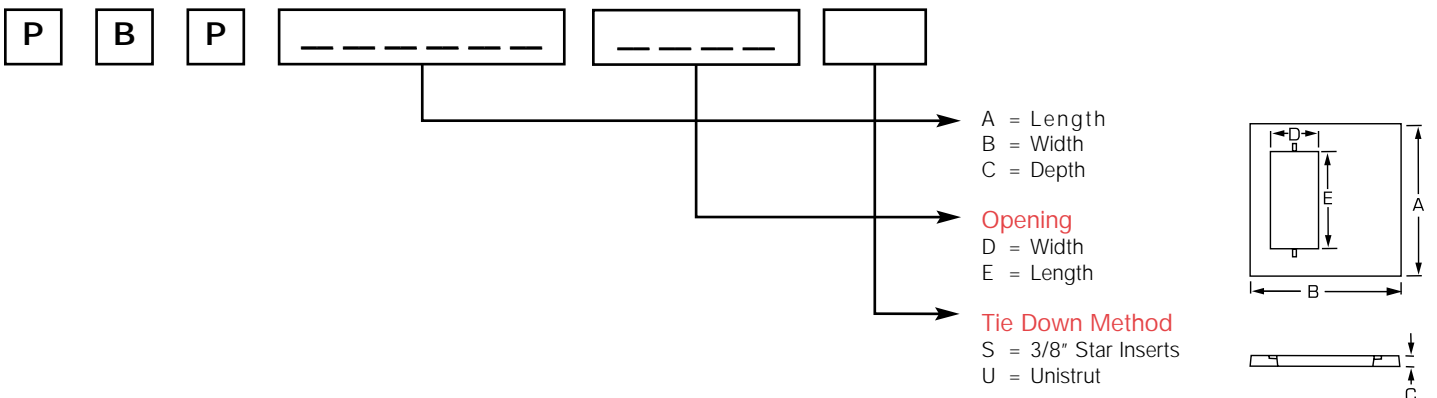
HDPE
Products

General Specification Information for HDPE Boxes

Specifications

- Enclosures shall be injected molded polyofin plastic with ultra-violet additives ASTM-D-V1248

- Box shall have adequate soil surface to prevent setting in firm soil

- Product shall comply to ASTM-D-635 or UL-94 (flammability of plastic articles)

- Cover to have anti-skid surface

Products Available in:

- Green
- Gray
- Lavender
- Black
- Tan

Ordering

- Specify: part number, color, quantity, lid type

- Cover marking and locking method, hex or penta bolt

- "Ship to" and "bill to" location

Cover Markings Include:

- Irrigation control valves
- Water
- Sewer
- RCV
- Electric
- CATV
- Telephone
- Reclaimed Water
- Street Lighting
- Blank

Physical & Chemical Properties

Description	ASTM	Values
Polyethene	D-1248	—
Impact Strength (12lb. wt, "C" tup)	D-1244	38ft/lbs
Effect of acids and alkalies	D-543	Very resistant
Tensile Strength	D-638	4415 PSI
Deflection Temp. @ 66 PSI	D-648	159°F
Flexural Modulus	D-790	191,000 PSI
Flammability (horizontal cm/min)	D-635	1.59 cm/min
Resistance to ultra-violet light	G-26-92	7-9 yrs**
Xenon-arc >35 w/m^2/NM Band @ 340 NM		

Plastic boxes should not be installed in concrete or asphalt without adequate rubber or felt expansion barriers.
Special product load data available on request.
**Surface discoloration varies with area condition AATCC test method 16E 1976.

PRODUCT FEATURES

- Box and cover shipped fully assembled.
- Twist lock cover.
- High top-load strength.
- Lightweight, simplified storage and handling.
- U.V. stable for longer field life.
- Primary usage drip irrigation.

Special color & cover markings available.

1.00″ metal locator available in cover on special orders.

2″ x 2.5″ Knockout Standard.
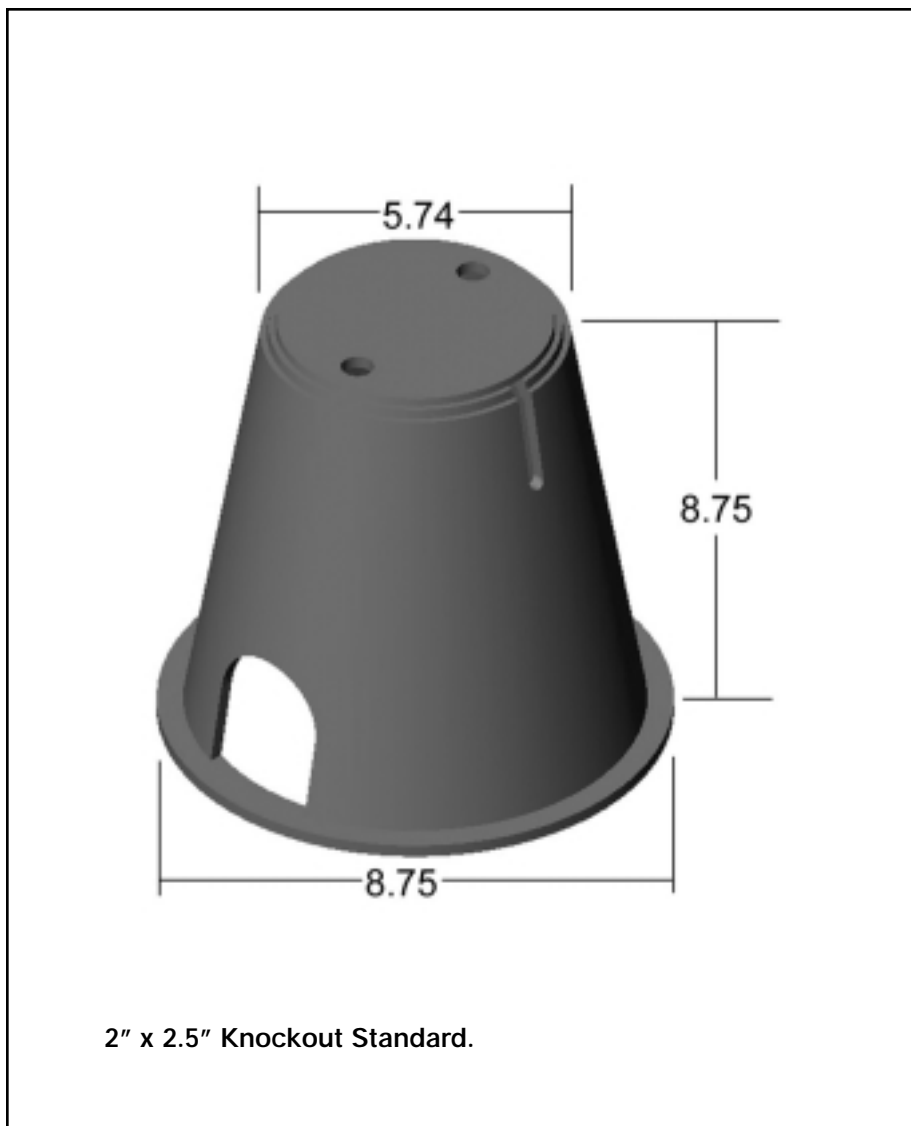
6″ STD. • 16 per sleeve • 256 per pallet

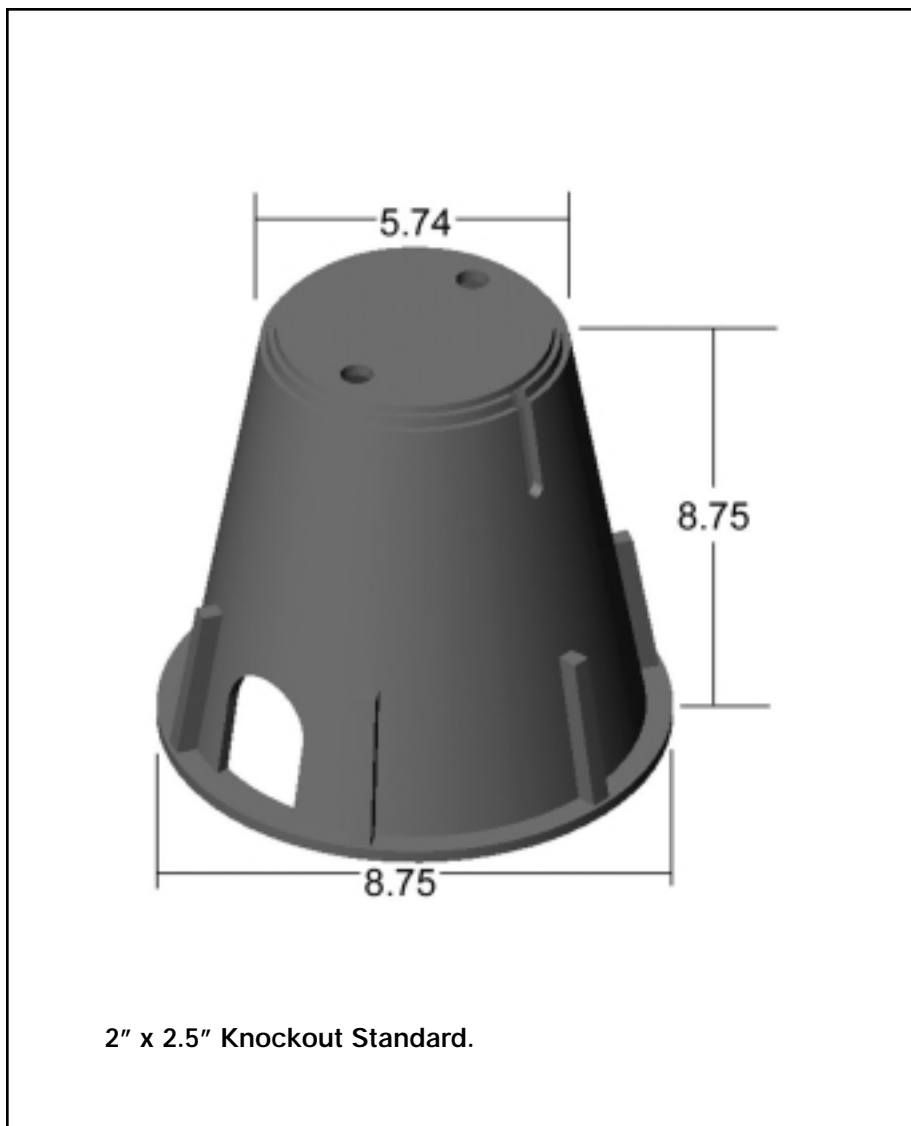| Catalog Number	Description	Color	Weight
575-1B2G	575 Black Body & Green Cover	Black	1.00 Lbs.
575-1B	575 Black Cover	Black	.25 Lbs.
575-2B	575 Green Cover	Green	.25 Lbs.

PRODUCT FEATURES

• Twist lock cover.

• Greater working area.

• High top-load strength.

• Lightweight, simplified storage and handling.

• U.V. stable for longer field life.

Special color & cover markings available.

STOCK COVER IDENTIFICATIONS

• Irrigation control valve (ICV)

• Water (solid or meter door)

• Electric (green or gray)

• Reclaimed water (green or lavender)

• Blank (no cover marking)

• Sewer

• CATV

• Telephone

• Street lighting

When ordering, please specify color and cover identification. For use in non-vehicle traffic areas. Not recommended for installation in concrete or asphalt without felt expansion joint.

2" x 2.5" Knockout Standard.

Series 608 • 6" STD. • 16 per sleeve • 256 per pallet

Catalog Number	Description	Color	Weight
608-1B2G	Body & Solid Cover	Black Body with Green Cover	1.25 Lbs.
608-1B	Body Only	Black	1.00 Lbs.
608-2G	Cover Only	Green	.25 Lbs.

Series 610 • 6" STD. • 16 per sleeve • 256 per pallet

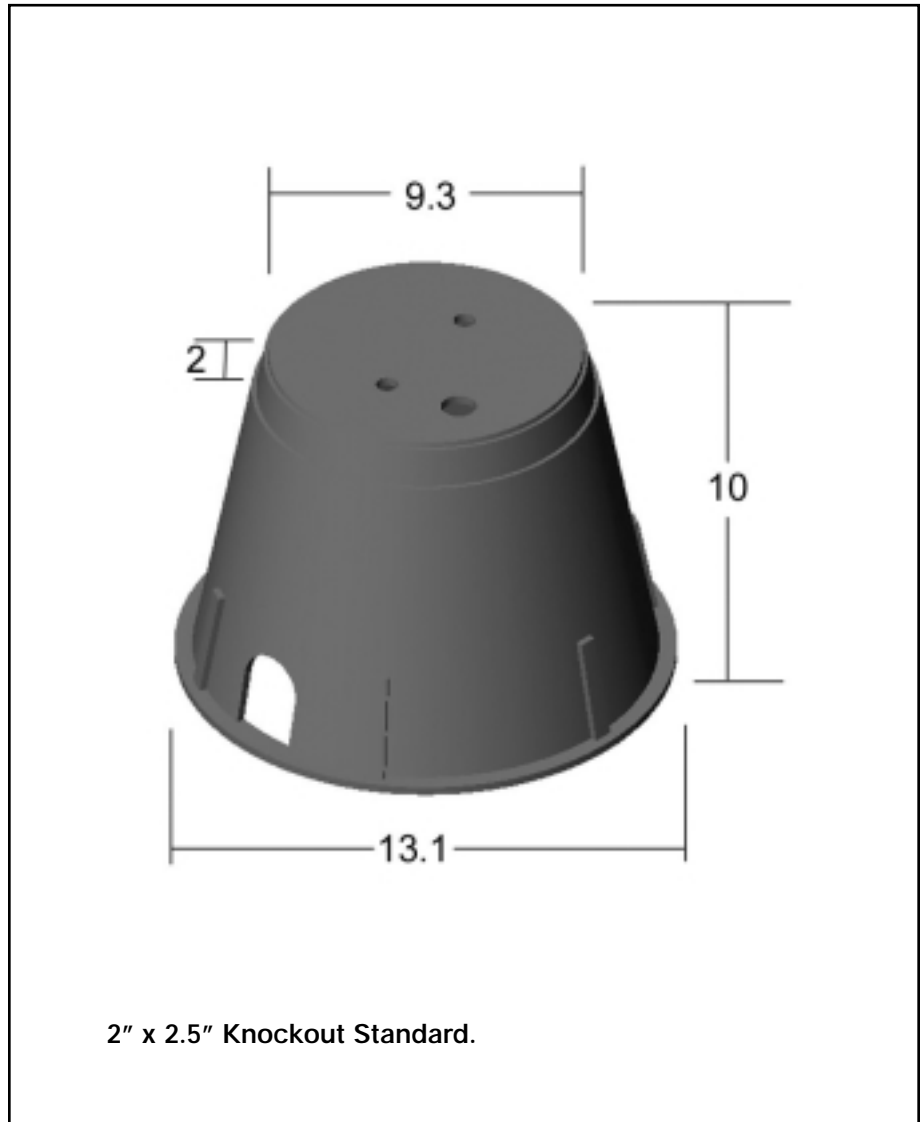| Catalog Number	Description	Color	Weight
610-1G2G	Body & Solid Cover	Black Body with Green Cover	1.55 Lbs.
610-1B	Body Only	Black	1.30 Lbs.
610-2G	Cover Only	Green	.25 Lbs.

PRODUCT FEATURES

- Lightweight.
- Security lock.
- Stronger load strength.
- U.V. stable for longer field life.
- Available in three standard colors: green, gray, black.
- Stainless steel hardware hex head or penta head bolt.
- Box and lid shipped fully assembled.

Special color & cover markings available.

STOCK COVER IDENTIFICATIONS

- Irrigation control valve (ICV)
- Water (solid or meter door)
- Electric (green or gray)
- Reclaimed water (green or lavender)
- Blank (no cover marking)
- Sewer
- CATV
- Electric
- Street lighting

When ordering, please specify color, cover identification, and bolt down type. For use in non-vehicle traffic areas. Not recommended for installation in concrete or asphalt without felt expansion joint.

2" x 2.5" Knockout Standard.

10" ROUND • 9 per sleeve • 90 per pallet

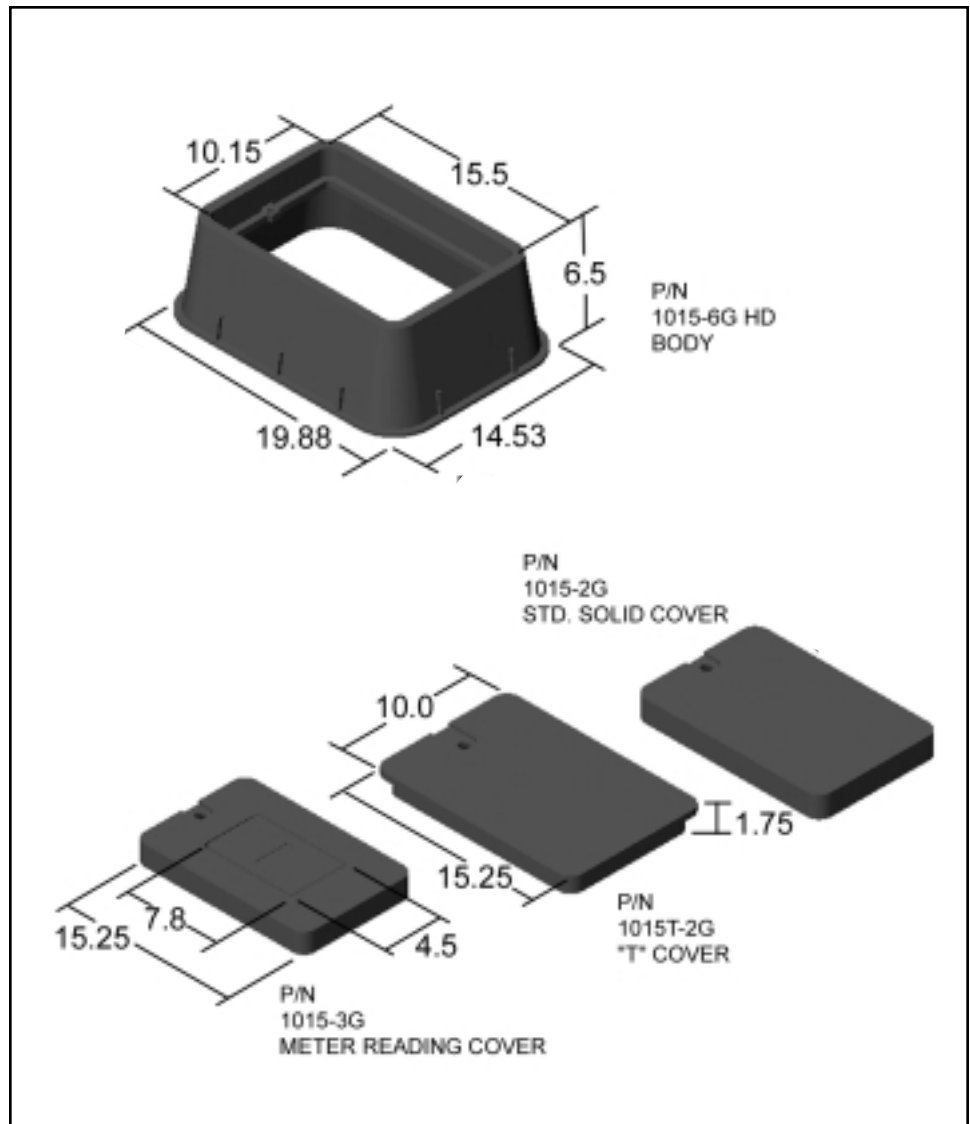| Catalog Number	Description	Color	Weight
910L-1G2G	Body & Cover	Green Body with Green Cover	4.35 Lbs.
910L-1G	Body Only	Green	3.00 Lbs.
910L-2G	Cover Only	Green	1.35 Lbs.

PRODUCT FEATURES

- For use with shallow pipe installation.
- Lightweight.
- U.V. stable.
- Nestable for storage or shipping.
- High top-load strength.
- Stainless steel hardware hex head or penta head bolt.
- Available in four standard colors: green, gray, black, or lavender.

STOCK COVER IDENTIFICATIONS

- Irrigation control valve (ICV)
- Water (solid or meter door)
- Electric (green or gray)
- Reclaimed water (green or lavender)
- Blank (no cover marking)
- Sewer
- CATV
- Telephone
- Street lighting

When ordering, please specify color, cover identification, and bolt down type. For use in non-vehicle traffic areas. Not recommended for installation in concrete or asphalt without felt expansion joint.

6" RECTANGULAR • 60 per pallet

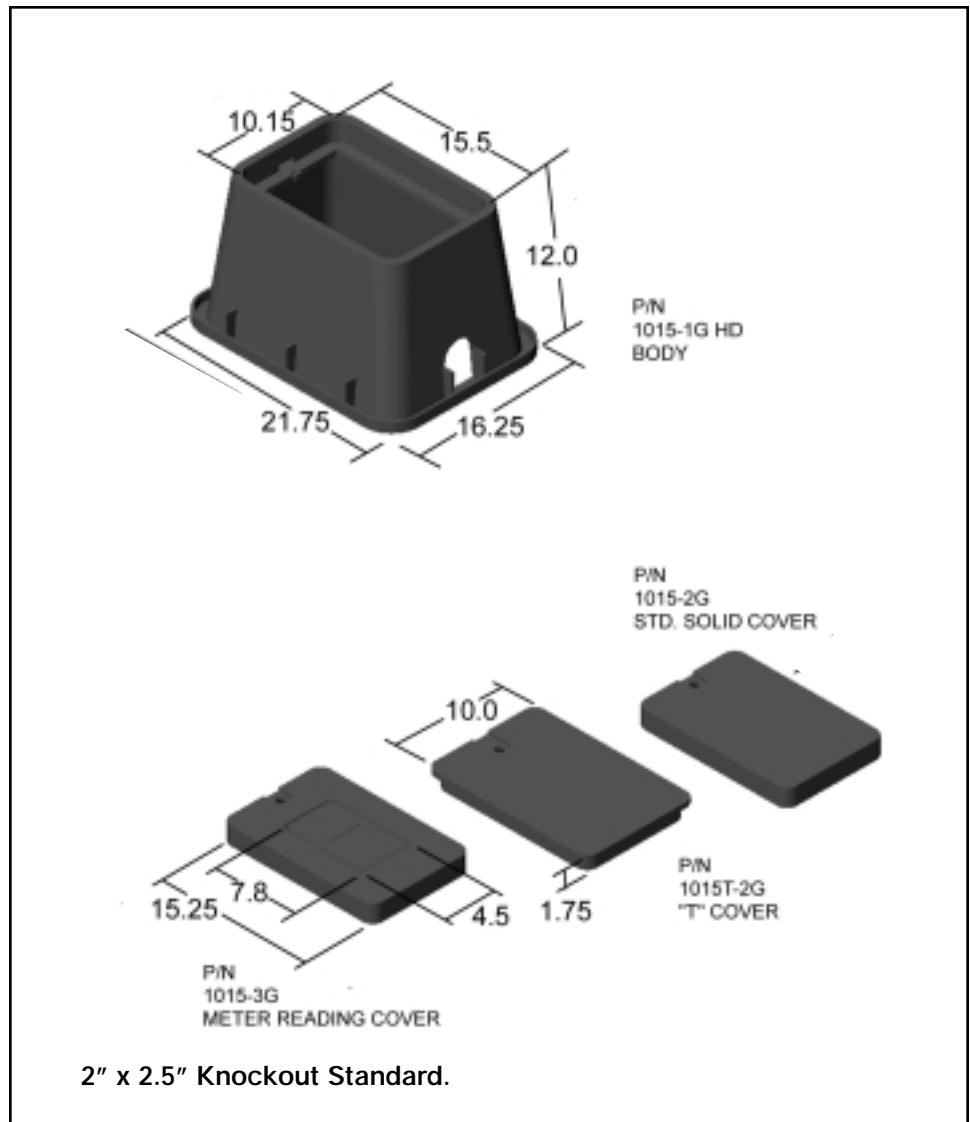| Catalog Number	Description	Color	Weight
1015-6G2G	6" Body & Solid Cover	Green Body with Green Cover	6.0 Lbs.
1015-6G	6" Body Only	Green	4.0 Lbs.
1015-2G	Solid Cover Only	Green	2.0 Lbs.
1015T-2G	Solid T Cover	Green	2.25 Lbs.

PRODUCT FEATURES

- Stainless steel hardware hex head or penta head bolt.
- High top-load strength; lightweight.
- Reduced side angle for easier readjust to grade.
- Single or double pipe ports available.
- U.V. stable for longer field life.
- Nestable for storage or shipping.
- Available in four standard colors: green, gray, black, or lavender.
- Box and lid ship fully assembled.

STOCK COVER IDENTIFICATIONS

- Irrigation control valve (ICV)
- Water (solid or meter door)
- Electric (green or gray)
- Reclaimed water (green or lavender)
- Blank (no cover marking)
- Sewer
- RCV
- CATV
- Telephone
- Street lighting

When ordering, please specify color, cover identification, and bolt down type. For use in non-vehicle traffic areas. Not recommended for installation in concrete or asphalt without felt expansion joint.

2″ x 2.5″ Knockout Standard.

12″ RECTANGULAR • 72 per pallet

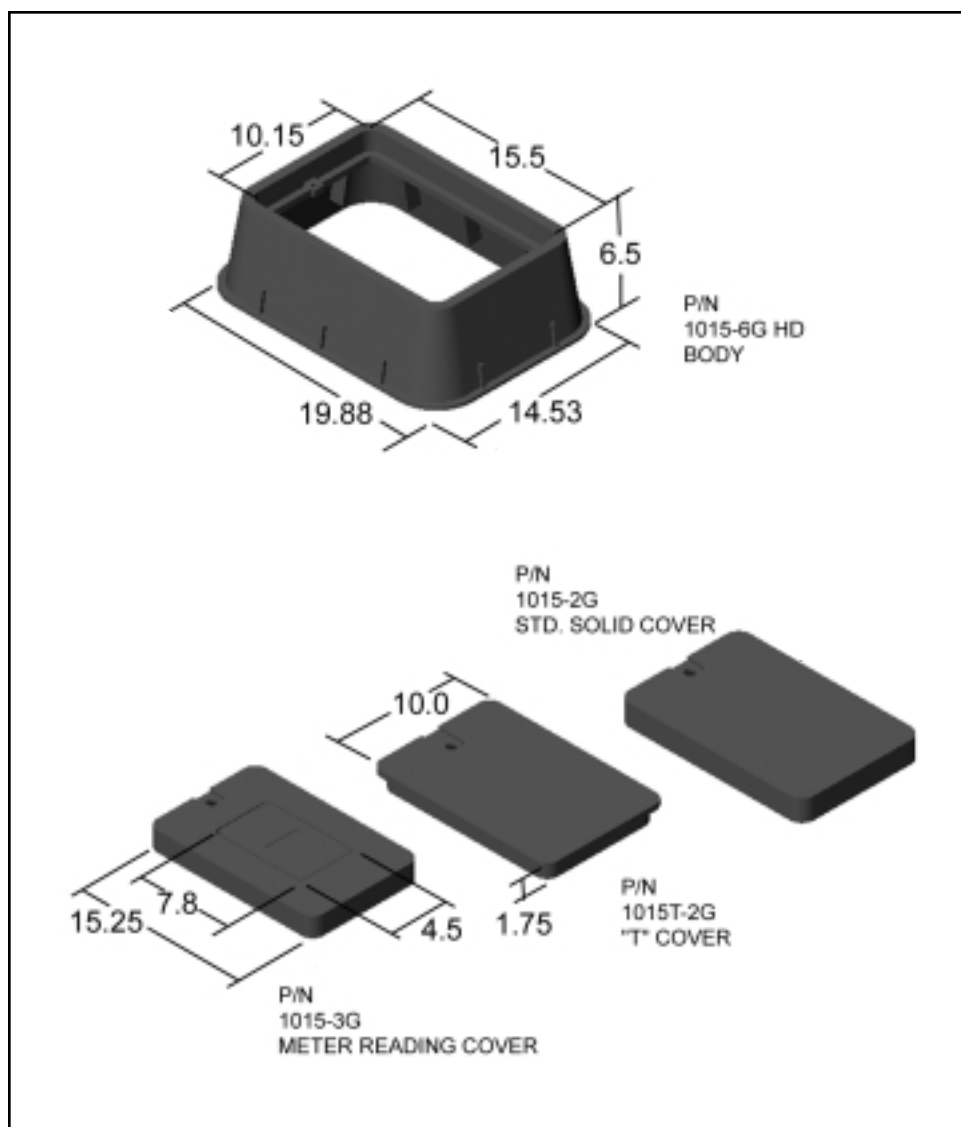| Catalog Number	Description	Weight
1015-1G2G	12″ Body & Solid Cover	9.5 Lbs.
1015T-1G2G	12″ Body 2 "T" Cover	9.6 Lbs.
1015-1G3G	12″ Body & Meter Reading Cover	9.5 Lbs.
1015-1G	12″ Body Only	7.3 Lbs.
1015-2G	Cover Solid	2.0 Lbs.
1015T-2G	Cover "T" Cover	2.5 Lbs.
1015-3G	Cover Meter Reading	2.25 Lbs.
1015-4G	Captive Hinged Cover	3.0 Lbs.

PRODUCT FEATURES

- For 6" extension of standard 12" rectangular box.
- High top-load strength.
- U.V. stable for longer field life.
- Available in four standard colors: green, gray, black, or lavender.
- Stainless steel hardware hex head or penta head bolt.

STOCK COVER IDENTIFICATIONS

- Irrigation control valve (ICV)
- Water (solid or meter door)
- Electric (green or gray)
- Reclaimed water (green or lavender)
- Blank (no cover marking)
- Sewer
- RCV
- CATV
- Telephone
- Street lighting

When ordering, please specify color, cover identification, and bolt down type. For use in non-vehicle traffic areas. Not recommended for installation in concrete or asphalt without felt expansion joint.

P/N 1015-6G HD BODY

P/N 1015-2G STD. SOLID COVER

P/N 1015T-2G "T" COVER

P/N 1015-3G METER READING COVER

12" RECTANGULAR • 72 per pallet

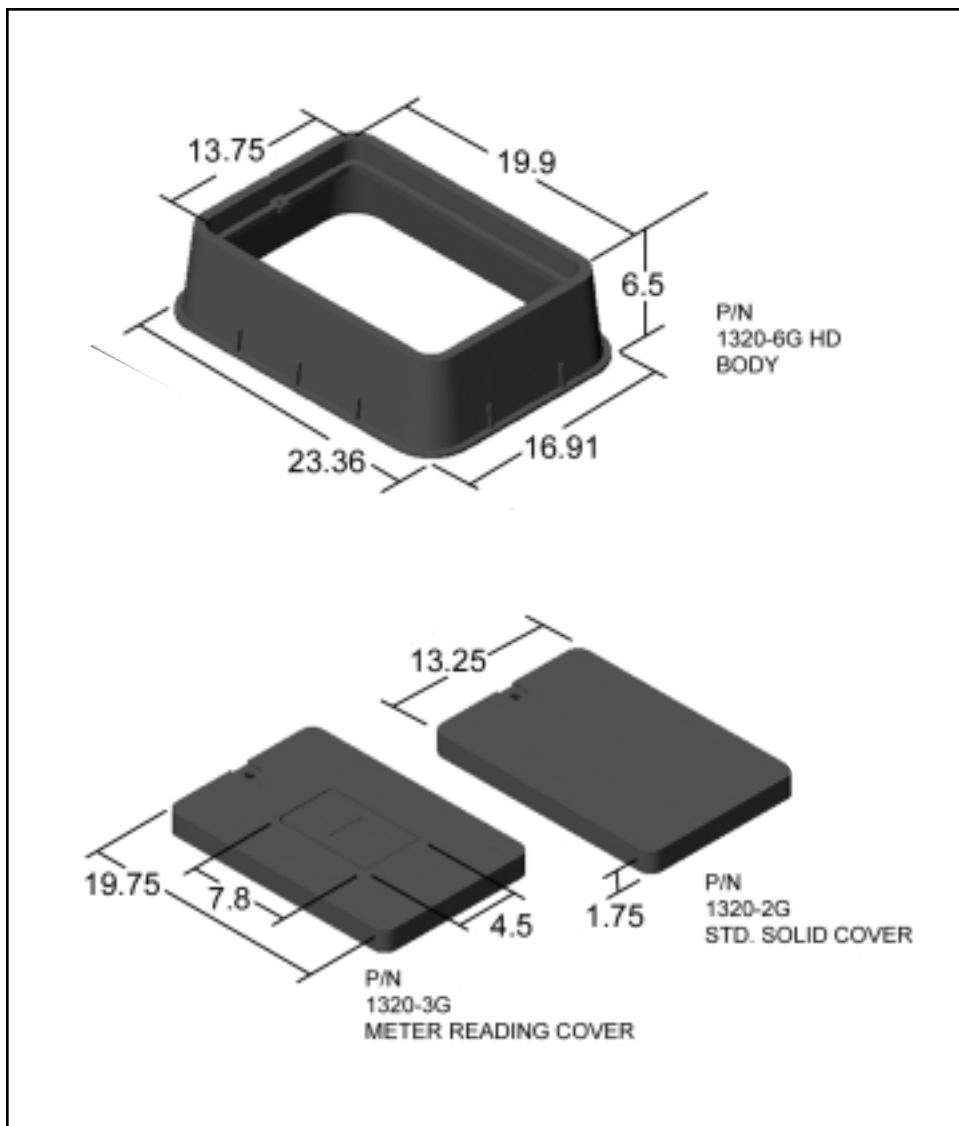| Catalog Number	Description	Weight
1015-XG2G	6" Body & Solid Cover	6.0 Lbs.
1015-XG	6" Body Only	4.0 Lbs.
1015-2G	Cover Solid	2.0 Lbs.
1015-2G	Cover T Cover	2.25 Lbs.

PRODUCT FEATURES

• High top-load strength.

• U.V. stable for longer life.

• Fits most competitive products.

• Stainless steel hardware hex head or penta head bolt.

STOCK COVER IDENTIFICATIONS

• Irrigation control valve (ICV)

• Water (solid or meter door)

• Electric (green or gray)

• Reclaimed water (green or lavender)

• Blank (no cover marking)

• Sewer

• RCV

• CATV

• Telephone

• Street lighting

When ordering, please specify color, cover identification, and bolt down type. For use in non-vehicle traffic areas. Not recommended for installation in concrete or asphalt without felt expansion joint.

P/N 1320-6G HD BODY

P/N 1320-2G STD. SOLID COVER

P/N 1320-3G METER READING COVER

6″ RECTANGULAR • 48 per pallet

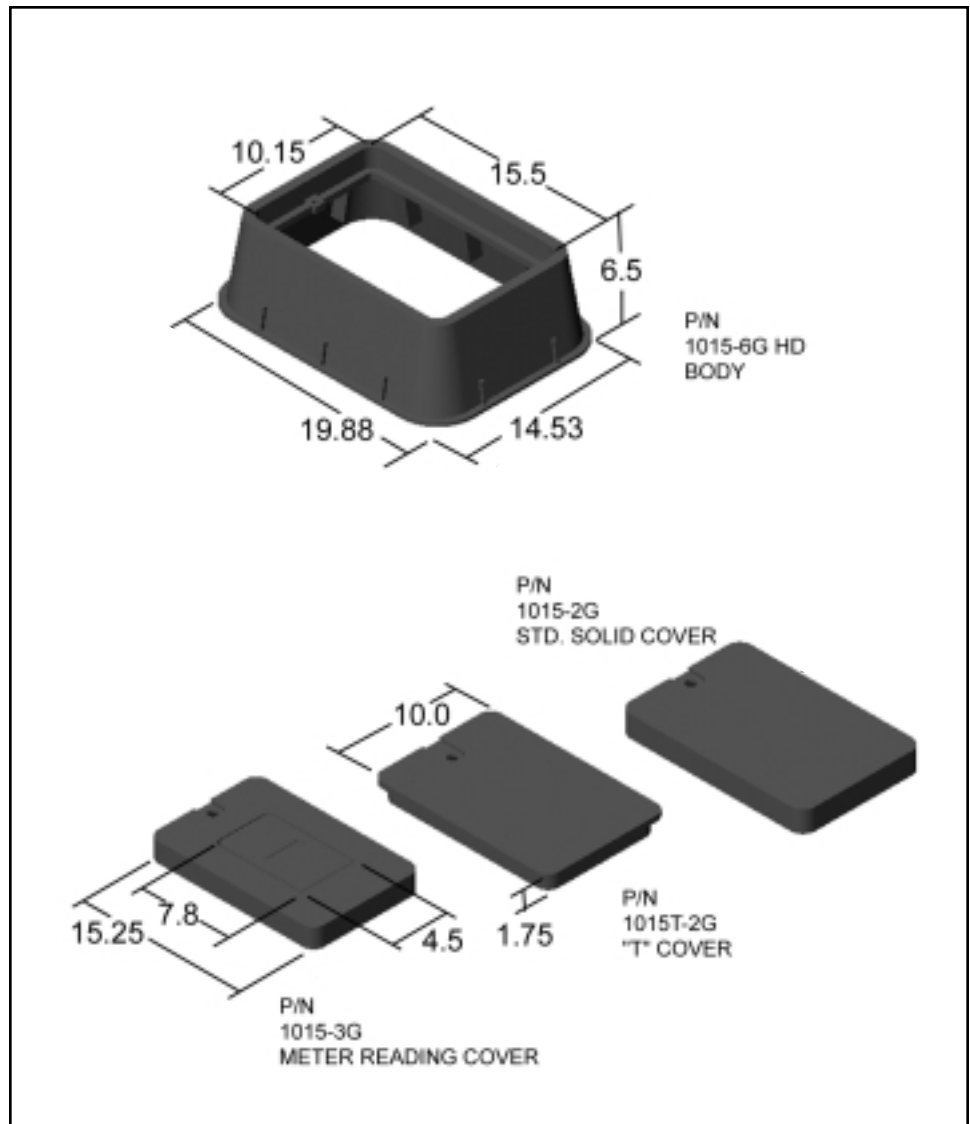| Catalog Number	Description	Weight
1320-6G2G	6″ Body & Solid Cover	9.0 Lbs.
1320-6G	6″ Body Only	5.0 Lbs.
1320-2G	Cover Solid	3.75 Lbs.
1320-3G	Meter Reading Cover (optional pre-drilled AMR probe hole available)	3.75 Lbs.

PRODUCT FEATURES

- Lightweight.
- High top-load strength.
- Reduced side draft easier to adjust to grade.
- Nestable for storage or shipping.
- Single or double pipe ports.
- U.V. stable for longer life.
- Stainless steel hardware hex head or penta head bolt.

STOCK COVER IDENTIFICATIONS

- Irrigation control valve (ICV)
- Water (solid or meter door)
- Electric (green or gray)
- Reclaimed water (green or lavender)
- Blank (no cover marking)
- Sewer
- RCV
- CATV
- Telephone
- Street lighting

When ordering, please specify color, cover identification, and bolt down type. For use in non-vehicle traffic areas. Not recommended for installation in concrete or asphalt without felt expansion joint.

P/N 1015-6G HD BODY

P/N 1015-2G STD. SOLID COVER

P/N 1015T-2G "T" COVER

P/N 1015-3G METER READING COVER

12" RECTANGULAR • 40 per pallet

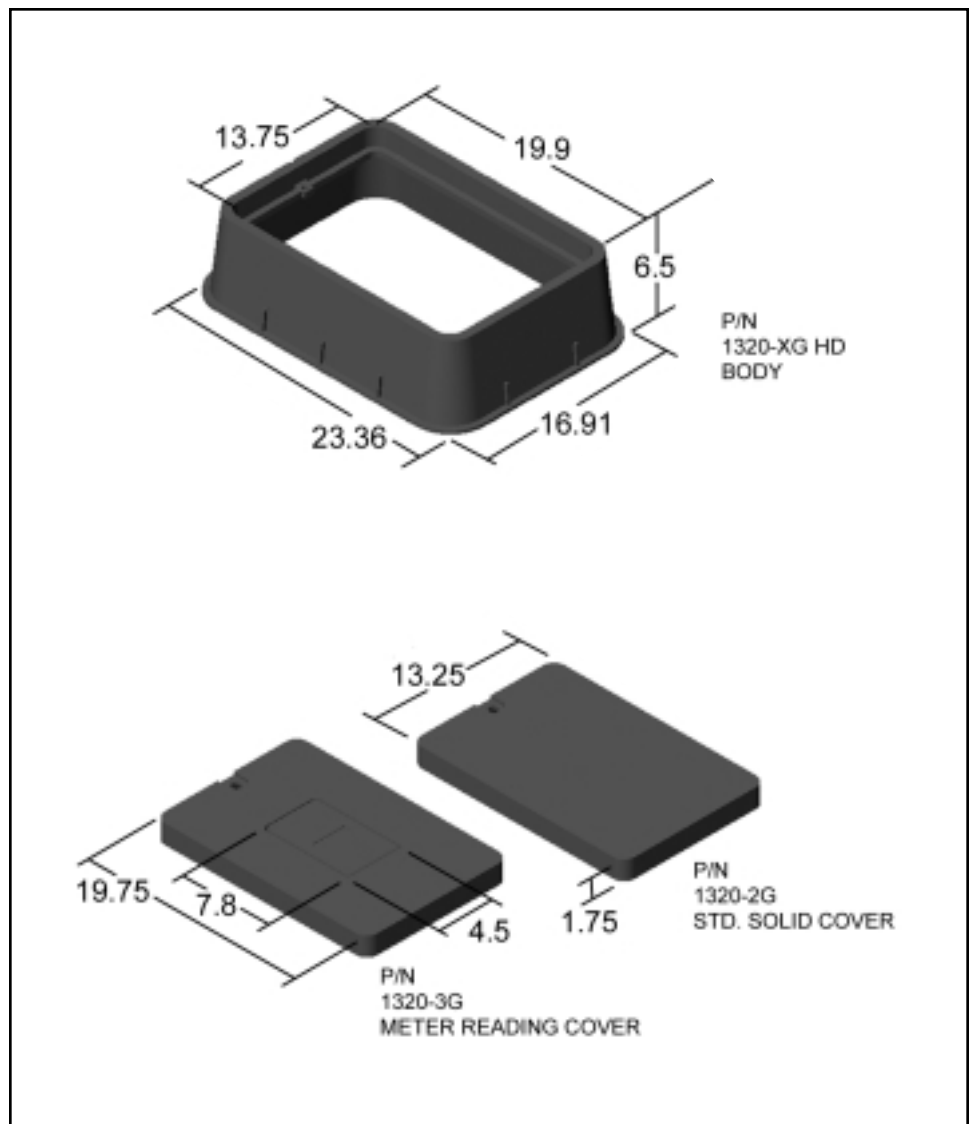| Catalog Number	Description	Weight
1320-1G2G	12" Body & Solid Cover	11.25 Lbs.
1320-1G3G	12" Body & Meter Reading Cover	11.25 Lbs.
1320-1G	12" Body Only	7.50 Lbs.
1320-2G	Cover Solid	3.75 Lbs.
1320-3G	Meter Reading Cover (optional pre-drilled AMR probe hole available)	3.75 Lbs.

PRODUCT FEATURES

- Lightweight.
- High top-load strength.
- Reduced side draft easier to adjust to grade.
- Nestable for storage or shipping.
- Single or double pipe ports.
- U.V. stable for longer life.
- Stainless steel hardware hex head or penta head bolt.

STOCK COVER IDENTIFICATIONS

- Irrigation control valve (ICV)
- Water (solid or meter door)
- Electric (green or gray)
- Reclaimed water (green or lavender)
- Blank (no cover marking)
- Sewer
- RCV
- CATV
- Telephone
- Street lighting

When ordering, please specify color, cover identification, and bolt down type. For use in non-vehicle traffic areas. Not recommended for installation in concrete or asphalt without felt expansion joint.

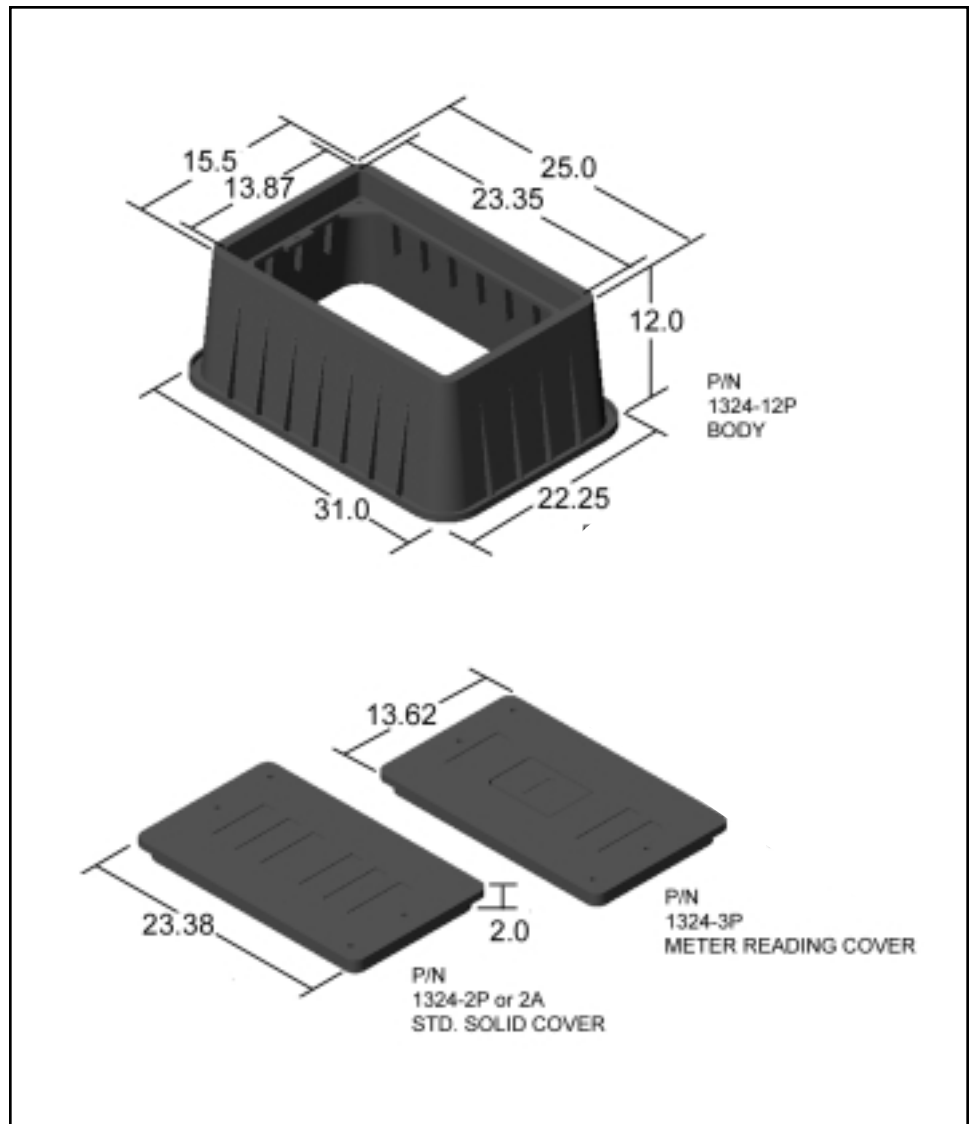| 6" EXTENSION • 32 per pallet		
Catalog Number	Description	Weight
1320-XG2G	6" Body & Solid Cover	9.0 Lbs.
1320-XG	6" Body Only	5.0 Lbs.
1320-2G	Cover Solid	3.75 Lbs.
1320-3G	Meter Reading Cover	3.75 Lbs.

PRODUCT FEATURES

- Available with centerline or diagonal bolt pattern.
- Lightweight.
- High top-load strength.
- Reduced side draft easier to adjust to grade.
- Nestable for storage or shipping.
- U.V. stable for longer life.
- Stainless steel hardware hex head or penta head bolt.

STOCK COVER IDENTIFICATIONS

- Irrigation control valve (ICV)
- Water (solid or meter door)
- Electric (green or gray)
- Reclaimed water (green or lavender)
- Blank (no cover marking)
- Sewer
- RCV
- CATV
- Telephone
- Street lighting

When ordering, please specify color, cover identification, and bolt down type. For use in non-vehicle traffic areas. Not recommended for installation in concrete or asphalt without felt expansion joint.

12″ UTILITY BOX • 16 per pallet

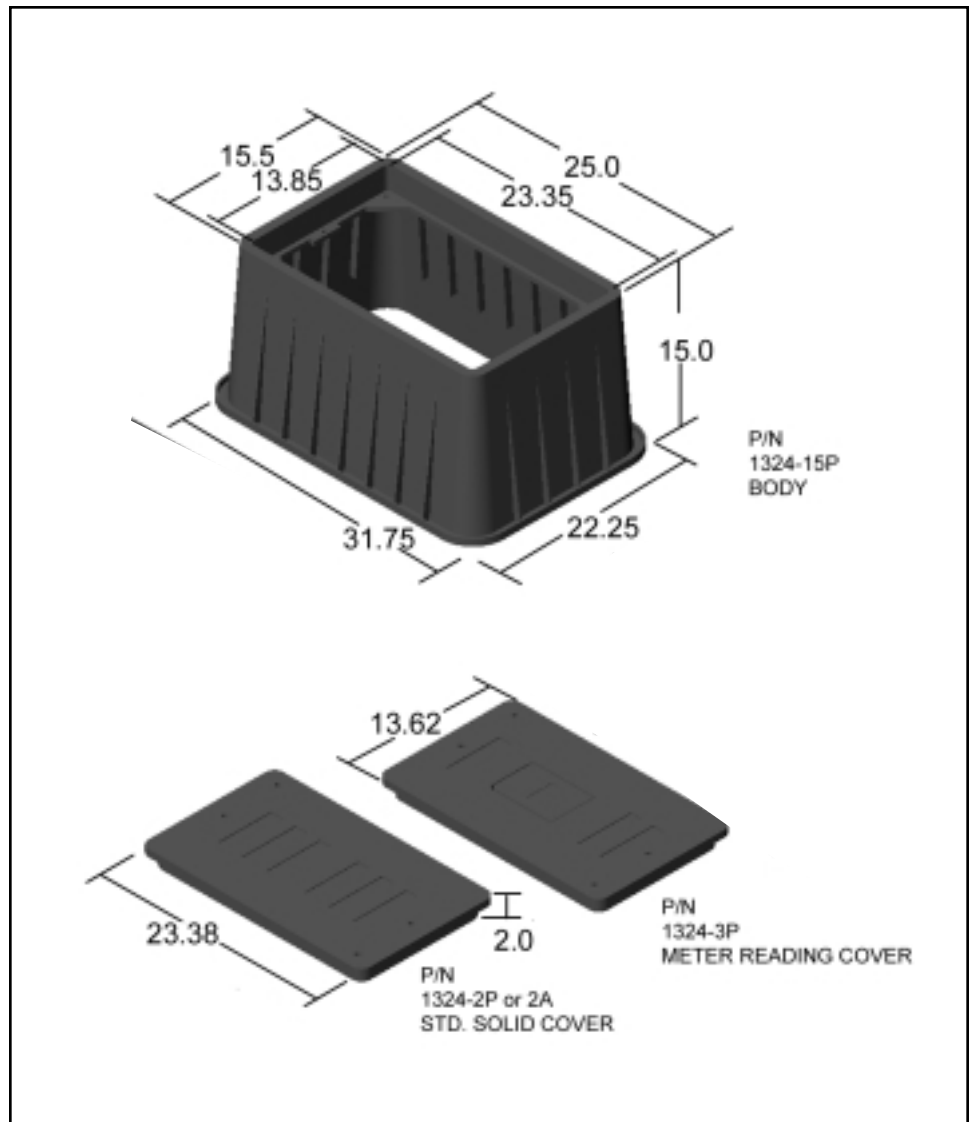| Catalog Number	Description	Weight
1324-12P2P	12″ Body, with Poly Cover	22.8 Lbs.
1324-12P2A	12″ Body, with ABS Cover	24.7 Lbs.
1324-12P3P	12″ Body, with Poly Meter Reader Cover	22.8 Lbs.
1324-12P	12″ Body	16.7 Lbs.
1324-2P	Poly Cover	6.1 Lbs.
1324-2A	ABS Cover	6.4 Lbs.
1324-3P	Meter Reading Cover	6.1 Lbs.

PRODUCT FEATURES

- Available with centerline or diagonal bolt pattern.
- Lightweight.
- High top-load strength.
- Reduced side draft easier to adjust to grade.
- Nestable for storage or shipping.
- U.V. stable for longer life.
- Stainless steel hardware hex head or penta head bolt.

STOCK COVER IDENTIFICATIONS

- Irrigation control valve (ICV)
- Water (solid or meter door)
- Electric (green or gray)
- Reclaimed water (green or lavender)
- Blank (no cover marking)
- Sewer
- RCV
- CATV
- Telephone
- Street lighting

When ordering, please specify color, cover identification, and bolt down type. For use in non-vehicle traffic areas. Not recommended for installation in concrete or asphalt without felt expansion joint.

15" UTILITY BOX • 16 per pallet

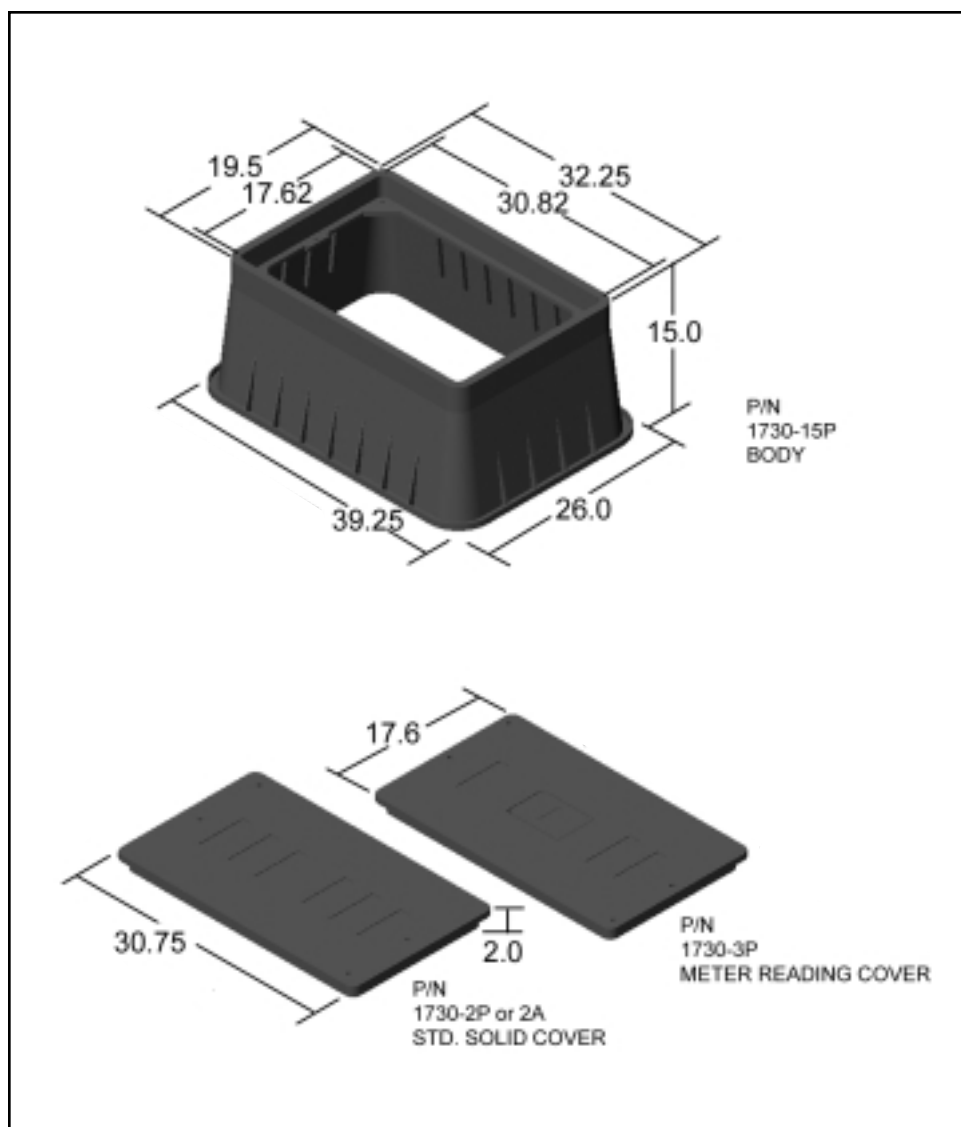| Catalog Number	Description	Weight
1324-15P2P	15" Body, with Poly Cover	25.4 Lbs.
1324-15P2A	15" Body, with ABS Cover	23.7 Lbs.
1324-15P3P	15" Body, with Poly Meter Reader Cover	25.4 Lbs.
1324-15P	15" Body	19.3 Lbs.
1324-2P	Poly Cover	6.1 Lbs.
1324-2A	ABS Cover	6.4 Lbs.
1324-3P	Meter Reading Cover	6.1 Lbs.

PRODUCT FEATURES

- Available with centerline or diagonal bolt pattern.
- Lightweight.
- High top-load strength.
- Reduced side draft easier to adjust to grade.
- Nestable for storage or shipping.
- U.V. stable for longer life.
- Stainless steel hardware hex head or penta head bolt.

STOCK COVER IDENTIFICATIONS

- Irrigation control valve (ICV)
- Water (solid or meter door)
- Electric (green or gray)
- Reclaimed water (green or lavender)
- Blank (no cover marking)
- Sewer
- RCV
- CATV
- Telephone
- Street lighting

When ordering, please specify color, cover identification, and bolt down type. For use in non-vehicle traffic areas. Not recommended for installation in concrete or asphalt without felt expansion joint.

15″ UTILITY BOX • 16 per pallet

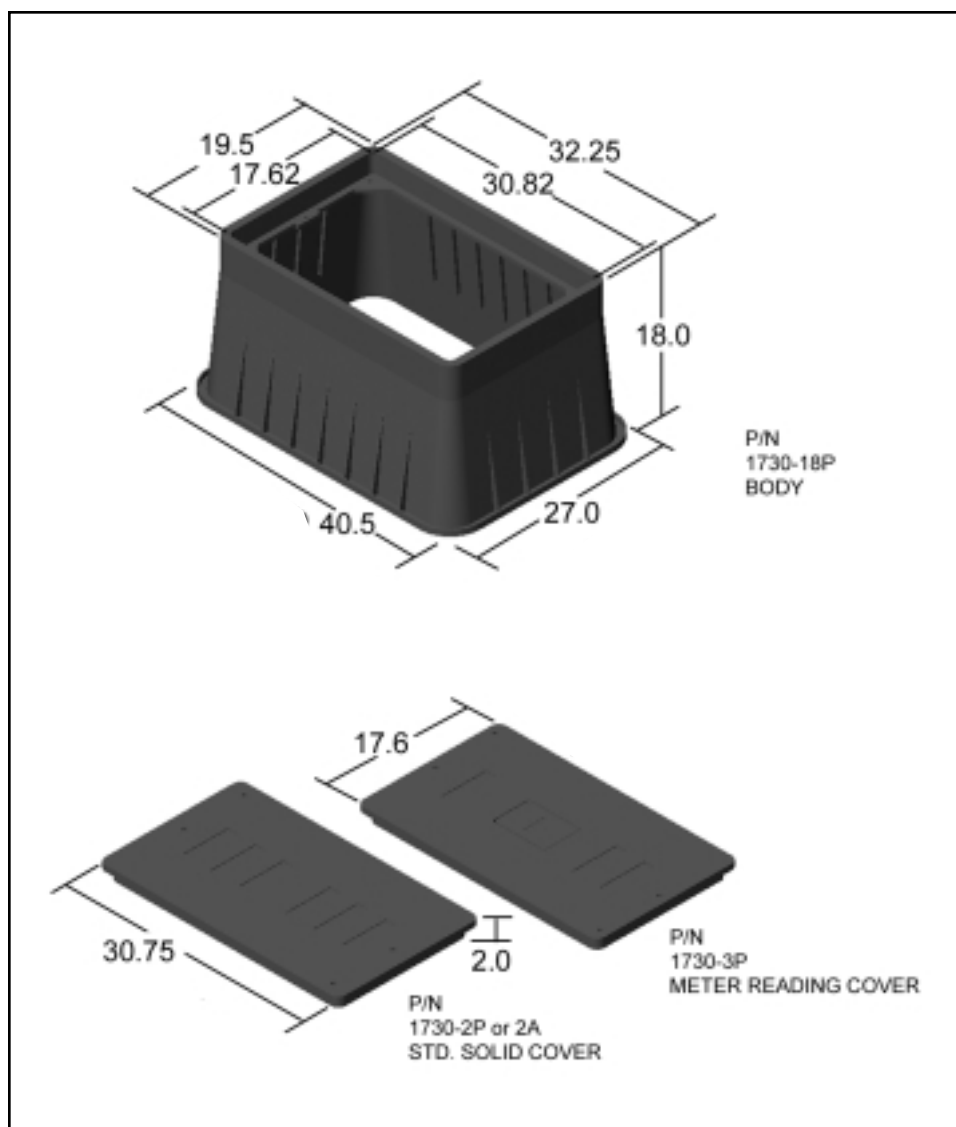| Catalog Number	Description	Weight
1730-15P2P	15″ Body, with Poly Cover	32.8 Lbs.
1730-15P2A	15″ Body, with ABS Cover	33.5 Lbs.
1730-15P3P	15″ Body, with Poly Meter Reader Cover	32.2 Lbs.
1730-15P	15″ Body	21.2 Lbs.
1730-2P	Poly Cover	11.0 Lbs.
1730-2A	ABS Cover	12.3 Lbs.
1730-3P	Meter Reading Cover	11.0 Lbs.

PRODUCT FEATURES

- Available with centerline or diagonal bolt pattern.
- Lightweight.
- High top-load strength.
- Reduced side draft easier to adjust to grade.
- Nestable for storage or shipping.
- Single or double pipe ports.
- U.V. stable for longer life.
- Stainless steel hardware hex head or penta head bolt.

STOCK COVER IDENTIFICATIONS

- Irrigation control valve (ICV)
- Water (solid or meter door)
- Electric (green or gray)
- Reclaimed water (green or lavender)
- Blank (no cover marking)
- Sewer
- RCV
- CATV
- Telephone
- Street lighting

When ordering, please specify color, cover identification, and bolt down type. For use in non-vehicle traffic areas. Not recommended for installation in concrete or asphalt without felt expansion joint.


18" UTILITY BOX • 16 per pallet

Catalog Number	Description	Weight
1730-18P2P	18" Body, with Poly Cover	35.0 Lbs.
1730-18P2A	18" Body, with ABS Cover	36.3 Lbs.
1730-18P3P	18" Body, with Poly Meter Reader Cover	35.0 Lbs.
1730-18P	18" Body	24.0 Lbs.
1730-2P	17" x 30" Poly Cover	11.0 Lbs.
1730-2A	ABS Cover	13.3 Lbs.
1730-3P	17" x 30" Meter Reading Cover	11.0 Lbs.

PRODUCT FEATURES

- For use as a bottom extension for 1730-18" body.

- 6 locating holes for easy assembly.

- Parts will interlock top to top, or bottom to bottom to increase box depth in multiples of 8".
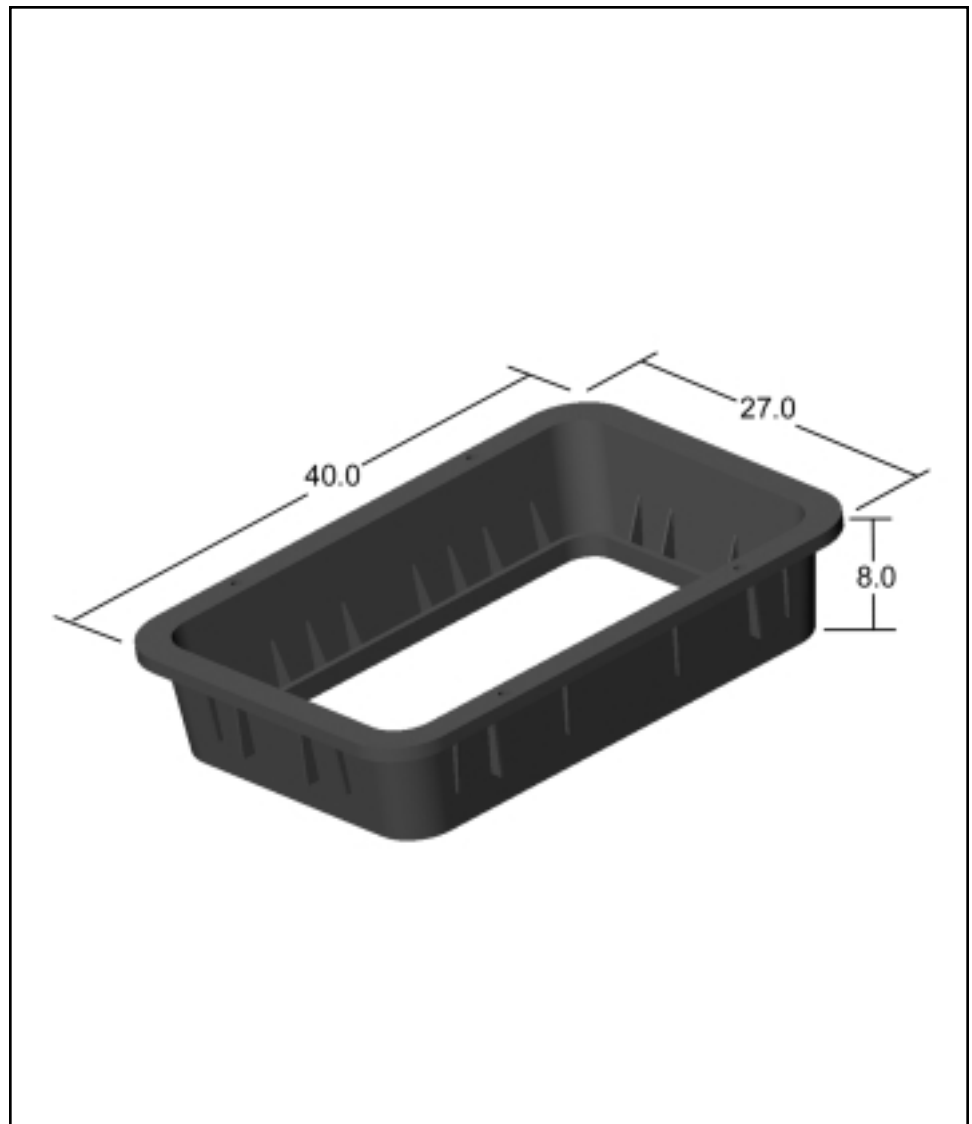
8" BOTTOM EXTENSION • 22 per pallet

Catalog Number	Description	Weight
1730-X	8" High Bottom Extension	12.50 Lbs.

For sales and service

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