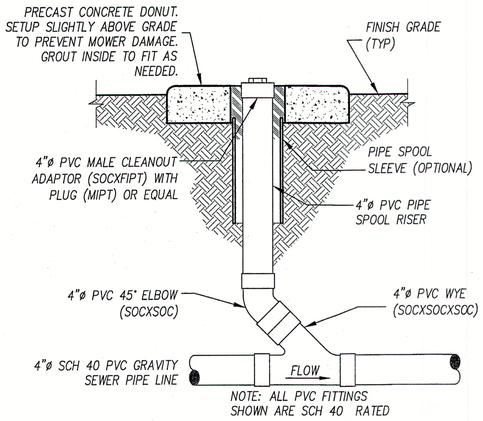
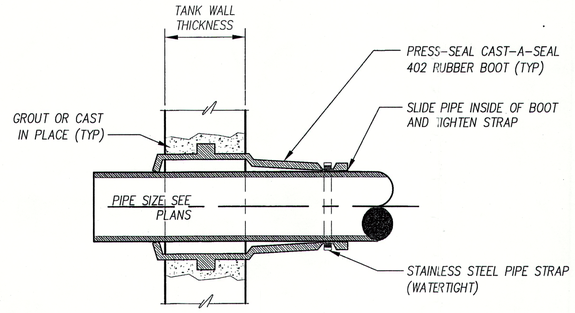


GRAVITY CLEANOUT
SCALE: NTS



STANDARD PIPE PENETRATIONS
SCALE: NTS

Submittal Data Sheet

Fiberglass Access Lids

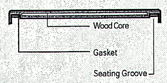
Orenco Systems® Incorporated
1-800-348-9843

Applications
Orenco Fiberglass Access Lids are used as riser covers, pump basin covers, and access port covers. Lids fit "Perma-Loc," "Ultra-Rib," and KOR FLO type pipe.

Actual View



Cutaway View



General
Orenco Fiberglass Access Lids are molded using fiberglass reinforced polyester resin encapsulating a wood core. The finish is green and the top surface is textured to provide a nonskid surface. (Gasketed lids include a polyurethane gasket or EPDM o-ring, which is cast-in). Lid comes with either two or four 1/4" stainless steel flathead socket cap screws and a hex key wrench. Orenco Fiberglass Access Lids are capable of supporting a 2500 lb. wheel load; however, they are not designed or recommended for vehicular traffic.

Standard Models
FL18G-4BU, FL21G, FL24G, FL24-4B, FL24G-4BK, FL30G, FL48G

Nomenclature
FL □□ □ □

Indicates options:
G = gasket
V = vent
CF = carbon filter
I2 = 2" insulation
I4 = 4" insulation
4B = 4 bolt hole lid for Perma-Loc/Ultra-Rib pipe (24" only)
4B12= 4 bolt hole lid for Ultra-Rib pipe (18" only)
4BK= 4 bolt hole lid for KOR FLO pipe

Lid diameter: 18", 21", 24", 30", 48"

Fiberglass lid

Specifications

Dimensions	Model FL18	Model FL21	Model FL24	Model FL30	Model FL48
O.D. (in)	20.0	22.5	26.25	32.0	53.875
Groove I.D. (in)	17.5	20.75	23.5	29.5	47.5
Avg. Thickness (in)	0.625	1.0	0.75	1.25	1.5

Options Available

Feature	Model Code Adder	Optional/Standard
Air Vent	V	Optional
Carbon Filter*	CF	Optional
Lid Insulation†	I2 or I4	Optional

*For more information on this option, refer to the Carbon Filters submittal data sheet, NSU-RLA-CF-1.

†Blue styrofoam; R-value per 2" increment is 10.

Materials of Construction

Fiberglass Reinforced Polyester
Wood Core
EPDM or Polyurethane Gasket

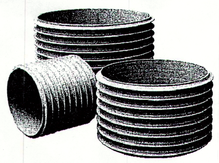
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Technical Data Sheet

Access Risers – Ultra-Rib™

Orenco Systems® Incorporated
1-800-348-9843

Applications
Orenco's Access Risers provide access to septic tank openings and can be cast into the tops of concrete tanks, bonded in place, or bolted down using a riser tank adaptor. They can also be used as valve enclosures.



General
Orenco Ultra-Rib™ Access Risers are constructed of ribbed PVC pipe and are available in 12", 18", 21", and 24" diameters. They can be ordered in 3-inch increments in lengths up to 13 ft for 12" and 18" diameter risers, and up to 14 ft for 21" and 24" diameter risers.

Standard Models
RR12XX, RU18XX, RR21XX, RR24XX

Nomenclature
R □□□□ + □ + □

Riser height (inches)

Riser diameter: 12"‡, 18"‡, 21", 24"

Rotating ends:
LV = Ultra-Rib™ 18"
IR = Ultra-Rib™ 18", 21", 24"

Riser

Discharge grommet:
10 = 1"
15 = 1-1/4"
20 = 2"

Splice Box:
0 = 1" grommet installed (for Orenco SB1 – SB4 splice boxes)
L = 1-1/4" grommet installed (for Orenco SB5, SB6 splice box)
S1 = SB1 attached
S2 = SB2 attached
S3 = SB3 attached
S4 = SB4 attached
L5 = SB5 attached
L6 = SB6 attached
SX = Predrilled hole for external splice box*
XS = Explosion-proof splice box for simplex pumps†
XD = Explosion-proof splice box for duplex pumps†
XT = Explosion-proof splice box for triplex pumps†

* Minimum riser height 18"
† Used in Class I Division 1 environments
‡ Not intended for use over pump vaults

Materials of Construction

Ultra-Rib™ PVC Pipe: PVC

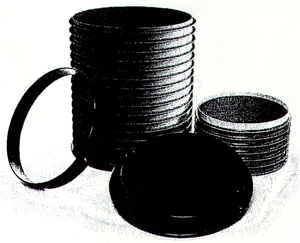
Specifications

Model	RR12XX	RU18XX	RR21XX	RR24XX
I.D.	11.74 in. (298 mm)	17.65 in. (448 mm)	20.5 in. (521 mm)	23.50 in. (597 mm)
Wall Thickness - excluding ribs	0.10 in. (3 mm)	0.19 in. (5 mm)	0.25 in. (6 mm)	0.20 in. (5 mm)
O. D. - including ribs	14.60 in. (371 mm)	19.44 in. (494 mm)	22.63 in. (575 mm)	28.50 in. (724 mm)
Weight per foot (meter)	5 lb (7.4 kg)	11 lb (16.4 kg)	15 lb (22.3 kg)	19 lb (28.3 kg)

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Access Risers, Lids, & Accessories

Applications
Our fiberglass access lids, PVC risers, and other tank accessories allow tank access without excavation. They're adaptable to virtually any tank, both new and existing. Lids and accessories fit most types of ribbed PVC pipe, including Ultra-Rib, Ultra-Corr, KOR FLO, and Perma-Loc. Preassembled risers and stock pipe lengths can be purchased from Orenco. Or stock lengths can be purchased locally and cut as needed. All components are designed to work well together.



Orenco's fiberglass access lids, risers, and other accessories are superior in quality, watertight, non-corroding, and lightweight yet strong. Custom imprinting is available on quantity orders of 24- and 30-in. diameter lids (610 and 760 mm).

To Order
Call your nearest Orenco Systems®, Inc. Distributor. For nearest Distributor, call Orenco at 800-348-9843, or visit www.orenco.com and click on "Distributor Locator."

APS-RLA-1
Rev. 4.2 © 1105

Standard Features & Benefits

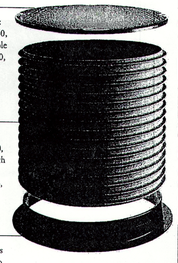
Fiberglass Lids
- Lids withstand 2500-lb wheel loads (1100 kg), stronger than any other lid on the market.
- While not designed for vehicular traffic, our lids have a breaking point greater than 8000 lb (3600 kg).
- Lids are fastened with stainless steel, tamper-resistant bolts (wrench included) to prevent accidental entry.
- Lids are an attractive green and blend in with landscaping. Custom colors and custom lid imprinting are available on quantity orders.
- Lids are flat to allow placement of backyard furnishings. No unsightly domes, no tripping.
- Lids are lightweight, watertight, non-skid, and non-corroding. Lid insulation and carbon filter vents are available options.
- Lids come in multiple diameters and are easy to install.

Risers & Accessories
- Risers come in various diameters and can be cast into a concrete tank, or bolted down with adapters.
- Adapter rings can also be cast right into a concrete tank.
- Risers and adapters can be easily bonded to fiberglass tanks with a structural adhesive.
- Grade rings allow installers to stack extensions onto risers in the field.
- Standard lengths in 6-in. (152-mm) increments are available, or custom risers can be cut in increments of 1-3 in. (25-76 mm), depending on diameter.
- Accessories such as adhesive, pipe grommets, cord grips, splice boxes, pipe cutting and drilling tools, insulation, vents, and fiberglass brackets are available.

Orenco Systems® Incorporated
Changing the Way the World Does Wastewater®
www.orenco.com

A Complete Package of Tank Accessories

Fiberglass Lids
Available in the following diameters: 12, 18, 24, 30, 48 in. (460, 610, 760, 1220 mm). Lighter-duty lids available in 8-, 12-, and 15-in. diameters (200, 305, 380 mm). Custom imprinting available on 24-in. and 30-in. lids (610 and 760 mm).



PVC Risers
Available in the following diameters: 12, 18, 24, 30, 48 in. (305, 460, 610, 760, 1220 mm). Can be installed with adapters or cast into concrete tank. Lighter-duty PIP risers available in 8-, 12-, and 15-in. diameters (205, 305, and 380 mm).

Tank Adapters
Available in 24- and 30-in. diameters (610 and 760 mm). Can be cast into or bolted to concrete tank.



Fiberglass RRFTA adapter fits square openings.

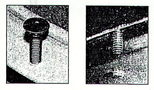


ABS PRTA adapter fits round openings.

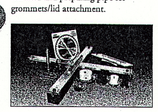
Bolt-Down Kits
For fastening tank adapter to tank. Kit includes stainless steel anchor bolts and butyl sealant.



Lid Fasteners
Self-tapping stainless steel bolt can be used on risers with and without bolt catches.



Cutting Jigs and Tools
For cutting Perma-Loc, Ultra-Rib, KOR FLO, and Ultra-Corr pipe in the field and preparing pipe for grommets/lid attachment.



Structural Adhesives
Choose from several types depending on application. Single- and two-component.



Riser Extension Adapters (Grade Rings)
These easy-to-install adapters allow height adjustment of risers in the field.



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DRIP SEPTIC SYSTEM DETAILS
ANDERSON RESIDENCE
136 GOLDEN POND LANE
IREDELL Co., NORTH CAROLINA

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Checked: DLM
Project: Job: 00-09-07
Sheet U-3
of 3 Sheets

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