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Website: www.BargerAndSons.com

Five generations. One goal. Quality precast concrete.

Manhole Frame and Cover

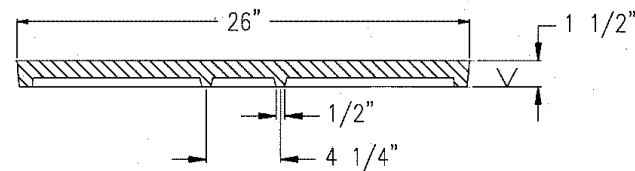
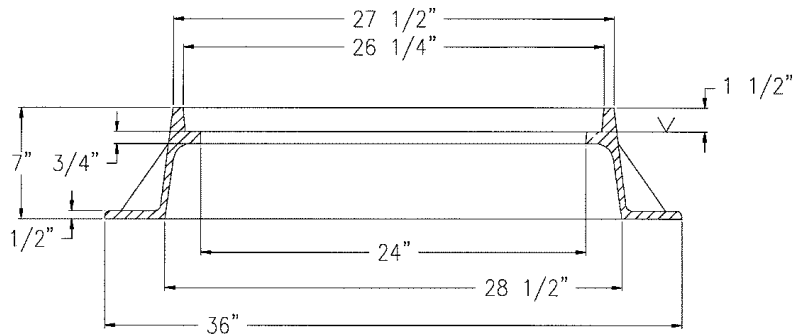
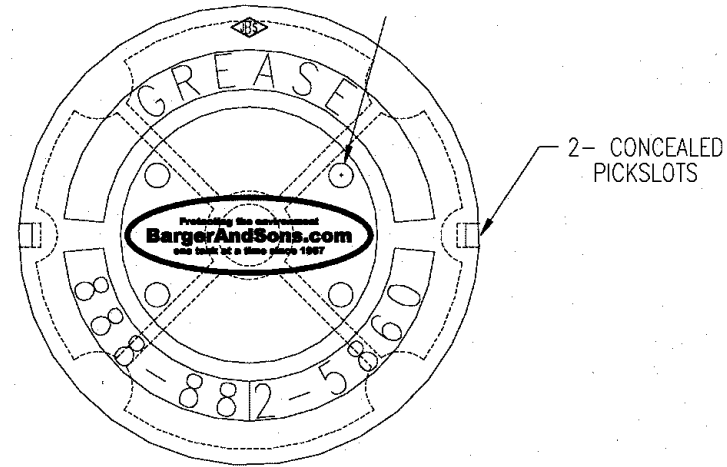
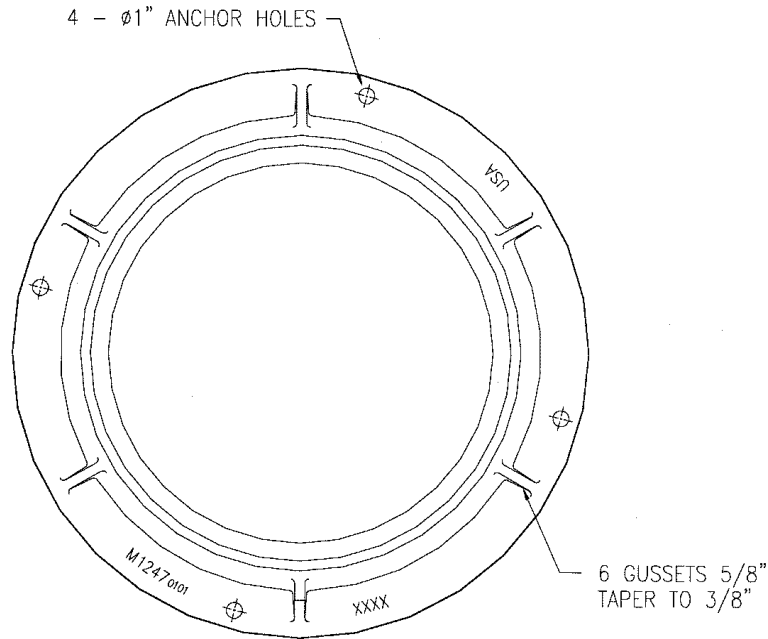
Height
7"

Clear Opening
24"

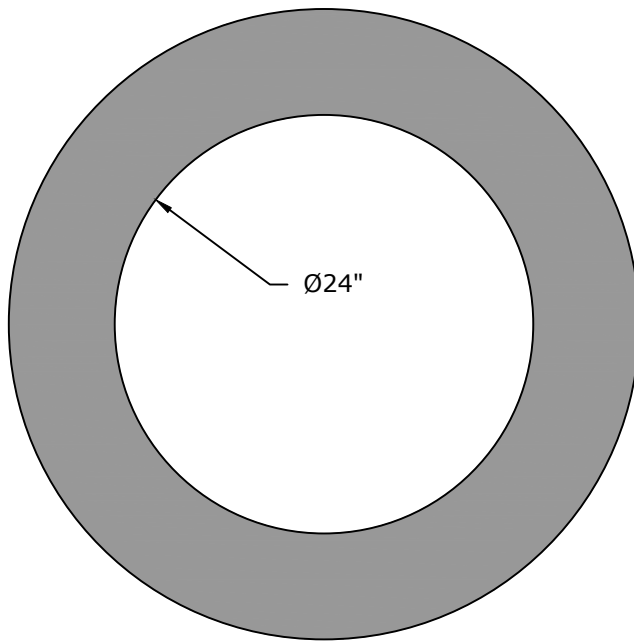
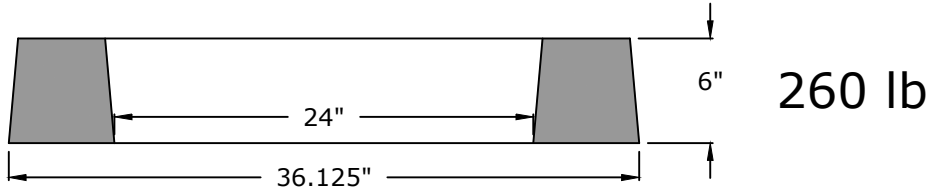
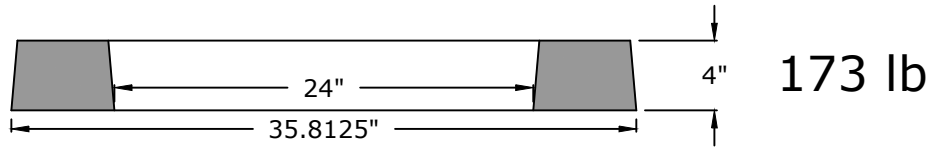
Estimated Weight
Frame: 310 lbs

Load Rating
Heavy Duty
H-20 Traffic Rated

Lid Type
Solid (Non-vented)



Top View



Approved for Production

Project: _____

Date: _____

Quantity: _____

By: _____

BARGER
PRECAST

Specifications

Concrete: 4,000 PSI

Concrete Grade Ring
24" I.D.

C.R. Barger & Sons, Inc.
P.O. Box 370 - Kingston TN 37763
Phone 888.882.5860 - BargerAndSons.com

Date: 2.172017

Drawn By: Eric Barger

Approx. Weight: See above

**CONSEAL™**
Concrete Sealants INC.**CS102****Butyl Rubber Sealant For All Precast Structures;
Meets Specs.**

APPLICATIONS

For self-sealing joints in: Manholes, Concrete Vaults, Septic Tanks, Concrete Pipe, Box Culverts, Utility Vaults, Burial Vaults, and Vertical Panel Structures.

SEALING PROPERTIES

- Provides permanently flexible watertight joints.
- Low to high temperature workability: 30°F to 120°F (-1°C to 48°C)
- Rugged service temperature: -30°F to +200°F (-34°C to +93°C)
- Excellent chemical and mechanical adhesion to clean, dry surfaces.
- Sealed Joints will not shrink, harden or oxide upon aging.
- No priming normally necessary. When confronted with difficult installation conditions, such as wet concrete or temperatures below 40°F (4°C), priming the concrete will improve the bonding action. Consult Concrete Sealants for the proper primer to meet your application.

HYDROSTATIC STRENGTH

ConSeal CS-102 meets the hydrostatic performance requirement as set forth in ASTM C-990 section 10.1 (Performance requirement: 10psi for 10 minutes in straight alignment – in plant, quality control test for joint materials.)

SPECIFICATIONS

ConSeal CS-102 meets or exceeds the requirements of Federal Specification SS-S-210 (210-A), AASHTO M-198B, and ASTM C-990-91.



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CS102

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PHYSICAL PROPERTIES

	Spec	Required*	CS 102
Hydrocarbon blend content % by weight	ASTM D4 (mod.)	50% min.	51%
Inert mineral filler % by weight	AASHTO T111	30% min.	35%
Volatile Matter % by weight	ASTM D6	2% max.	1.2
Specific Gravity, 77°F	ASTM D71	1.15-1.50	1.25
Ductility, 77°F	ASTM D113	5.0 min.	10
Penetration, cone 77°F, 150 gm. 5 sec.	ASTM D217	50-100	55-60
Penetration, cone 32°F, 150 gm. 5 sec.	ASTM D217	40 mm	40-65
Flash Point, C.O.C., °F	ASTM D92	350°F min.	450°F
Fire point, C.O.C., °F	ASTM D92	375°F min.	475°F

IMMERSION TESTING

- 30-Day Immersion Testing: No visible deterioration when tested in 5% Caustic Potash, 5% Hydrochloric Acid, 5% Sulfuric Acid, and 5% saturated Hydrogen Sulfide. *
- One Year Immersion Testing: No visible deterioration when tested in 5% Formaldehyde, 5% Formic Acid, 5% Sulfuric Acid, 5% Hydrochloric Acid, 5% Sodium Hydroxide, 5% Hydrogen Sulfide and 5% Potassium Hydroxide.
- Requirements of ASTM C-990 Standard Specification for Joints for Concrete Pipe, Manholes, and Precast Box Sections Using Preformed Flexible Joint Sealants.

LIMITED WARRANTY

This information is presented in good faith, but we cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used. We accept no responsibility for results obtained by the application of this information or the safety and suitability of our products, either alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product or product combinations for their own purposes. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for this own particular use. We sell this product without warranty, and buyers and users assume all responsibility and liability for loss or damage arising from the handling and use of this product, whether used alone or in combination with other products.

Certificate of Conformance

Date: March 23, 2006

This is to certify that the material listed below conforms to the following specifications. The material meets or exceeds the listed performance requirements.

Product: CS-665 Non-Toxic Butyl Sealant

Performance: Tested in compliance to the conditions specified in the Federal Hazardous Substance Act (16 CFR 1500). Test results conclusively show that CS-665 is classified as non-toxic by oral administration.

Specifications: This product meets or exceeds the requirements of ANSI/NSF Standard 61.

Chemical Composition and Properties:

Volatile matter % by weight (ASTM D6):	13%
Specific Gravity (ASTM D71)	1.30 – 150.
Ductility (ASTM D113)	5.0 min.
Penetration @ 77° (ASTM D217)	50 – 120 dmm

Sincerely,

Tim Frazier

Tim Frazier
Technical Director