

ENGINEERING COMMUNIQUÉ

JAY R. SMITH MFG. CO.® ♦ NOVEMBER, 2012 ♦ VOLUME 2- ISSUE 9



From:
THE SMITH ENGINEERING GROUP
PRODUCT ALERT: Figure No. 2692
Quad Close™ Trap Seal

Let's review the Quad Seal™ or Stink Stopper,
whichever you prefer to use.

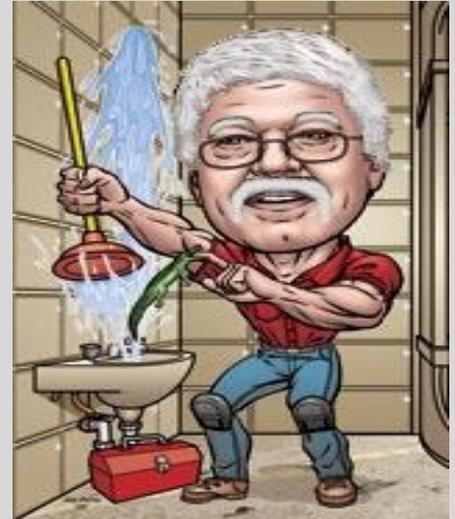
- ♦ JAY R. SMITH MFG. CO. "Figure No. 2692 QUAD SEAL Trap Seal Device"
- ♦ IAPMO Listed: File No. 7479 (Fully Listed)
- ♦ ASSE Listed: Standard 1072 - Barrier Type Trap Seal Protection Device (Fully Compliant) – Record No. 1435 – Floor Designation AF-GW, Rated for all floor types including grease laden floors.

Copies of the certificates are attached. Copies of the test reports are available upon request.

All four sizes (2", 3", 3.5" & 4") are listed with both IAPMO and ASSE.

COMPETITION-
Sure Seal:

- IAPMO Listed: File No. C-4165 (Classified Listing Only)
- ASSE Listed: Standard 1072 - Record No. 1409



SEWER GAS:

Sewer gas is a complex mixture of toxic and non-toxic gases that can be present at varying levels depending upon the source. It is formed during the decay of household and industrial waste. Highly toxic components of sewer gas include hydrogen sulfide and ammonia.

Sewer gas also contains methane, carbon dioxide, sulfur dioxide, and nitrous oxides. In addition, chlorine bleaches, industrial solvents, and gasoline are frequently present in municipal and privately owned-sewage treatment systems.

Sewer gas can enter a home through a floor drain, from a leaking or blocked plumbing roof vent, or (if the gases are in soil adjacent to the house) through cracks in foundations. Sanitary and farm workers can be exposed to sewer gas during the cleaning and maintenance of municipal sewers, manure storage tanks, and home septic tanks.

Pro Set Trap Guard:

- IAPMO Listed: No
- ASSE Listed: No

Some Features and Benefits:

- √ 100% SAFE & EFFECTIVE!
- √ Prevents odors by eliminating the emission of offensive sewer gases from entering the living/work environment.
- √ Fully tested and certified to all requirements of ASSE Standard 1072 (Barrier Type Trap Seal Protection Device).
- √ Reduces the frequency needed for the periodic admission of water into the floor drain's trap to maintain a trap seal.
- √ Fast & simple to install, easily removed for inspection, cleaning (rodding) or replacement. No special tools needed.
- √ Designed to fit the inside diameters of 2, 3 and 4 ABS, PVC & cast iron pipe and the inside diameter of Smith's adjustable threaded strainer heads.
- √ Ideally suited for retrofitting/repairing of existing floor, shower and similar applications has no existing trap primer protection or where current protection has failed.
- √ No flow restrictions.
- √ Weather tested for 250 continuous hours per ASTM G154 and ASTM D412 and with no cracking, checking, blistering or surface pitting occurring after the 250 hours of UV exposure.
- √ Passed the water absorption test per ASTM D471 when submerged in water with no significant weight gain after 48 hours.

The principal risks and effects associated with exposure are:

- Hydrogen sulfide poisoning. Exposure to low levels of hydrogen sulfide causes irritation of the eyes and respiratory tract. Other symptoms include nervousness, dizziness, nausea, headache, and drowsiness. This gas smells like rotten eggs, even at extremely low concentrations. Exposure to high concentrations can interfere with the sense of smell, making this warning signal unreliable. At extremely high levels, hydrogen sulfide can cause immediate loss of consciousness and death.
- Asphyxiation. High concentrations of methane in enclosed areas can lead to suffocation as large amounts of methane will decrease the amount of oxygen in the air. The effects of oxygen deficiency include headache, nausea, dizziness and unconsciousness. At very low oxygen concentrations (<12%), unconsciousness and death may occur very quickly and without warning. Sewer gas diffuses and mixes with indoor air, and will be most concentrated where it is entering the home. It can accumulate in basements.
- Explosion and fire. Methane and hydrogen sulfide are flammable and highly explosive.

- √ Passed the ozone resistance test in accordance with ASTM D1149.
- √ Passed the chemical resistance tests per ASTM D543.

After reviewing the multiple check marks, it is obvious the QUAD Close Trap Seal Device has passed numerous tests under rigorous test qualifications.

Last but of importance is the fact that the Quad Seal carries a ten year warranty. See attached.

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INTERNATIONAL

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 TEL: 334-277-8520 FAX: 334-272-7396 www.jrsmith.com



MEMBER OF:

LOCATION

DRAWING NUMBER
s2692SIZE
ASCALE:
NONEDATE:
5-20-08APPROVED BY:
JMCHECKED BY:
CLDRAWN BY:
RNWE CAN ASSUME NO RESPONSIBILITY FOR USE OF SUPERSEDED OR VOID DATA
DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCE AND CHANGE WITHOUT NOTICE

QUAD CLOSE™ TRAP SEAL

FUNCTION: The Quad Close Trap Seal forms a barrier to minimize the evaporation of the trap seal of a floor drain. The Quad Close Trap Seal will open to allow drainage and close when there is no flow. It is for use in floor drain outlets or the adjustable strainer throats.

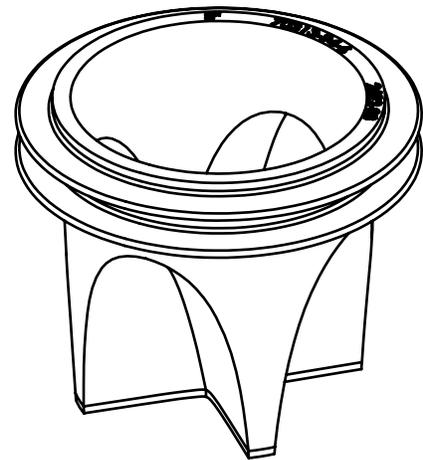
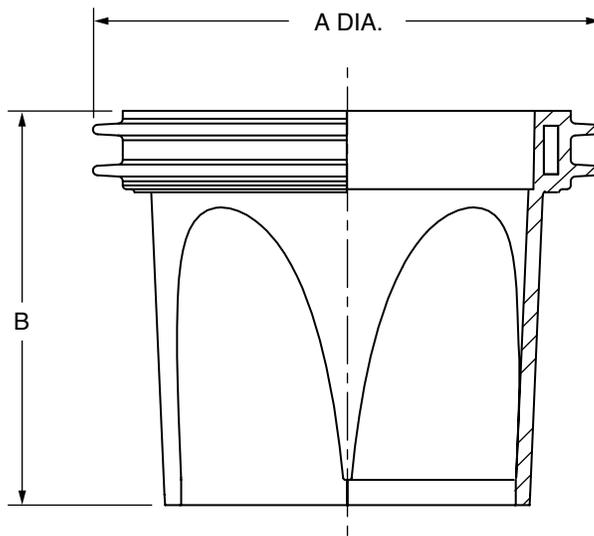


Fig. No.	A (Pipe Size)	B
2692-02	02(50)	2 3/4(70)
2692-03	03(75)	2 3/4(70)
*2692-0350	0350(89)	2 3/4(70)
2692-04	04(100)	2 3/4(70)

IAPMO Listed - File No. 7479
 ASSE Listed - Record No. 1435 - AF - GW
 (Floor Designation/rated for all floor types.)

INSTALLATION: The 02(50), 03(75) & 04(100) Quad Close Trap Seal sizes install in the drain outlet. To install, simply insert the Quad Close Trap Seal in the drain outlet or throat of strainer until the top of it is flush with top of drain outlet or strainer throat. See reverse side of submittal for illustration.

*The 0350(89) Quad Close Trap Seal size installs in the throat of Smith Adjustable Strainers. See reverse side of submittal for illustration.

NOTE: Dimensions shown in parentheses are in millimeters.

Patent Pending

2692

FIGURE
NUMBER

REV.	DATE	DESCRIPTION	BY	CKD. BY
E	11-6-12	Removed▲	TBW	CL
D	6-27-12	Added ASSE Listing	TBW	JM
C	4-24-12	Rev. Title, Function, Installation	TBW	CL
B	4-23-12	Rev. Reg. Furn., Added IAPMO Listing	TBW	CL

WEIGHT
POUNDSVOLUME
CUBIC FEET

FIGURE NUMBER

2692

C



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MEMBER OF:

LOCATION

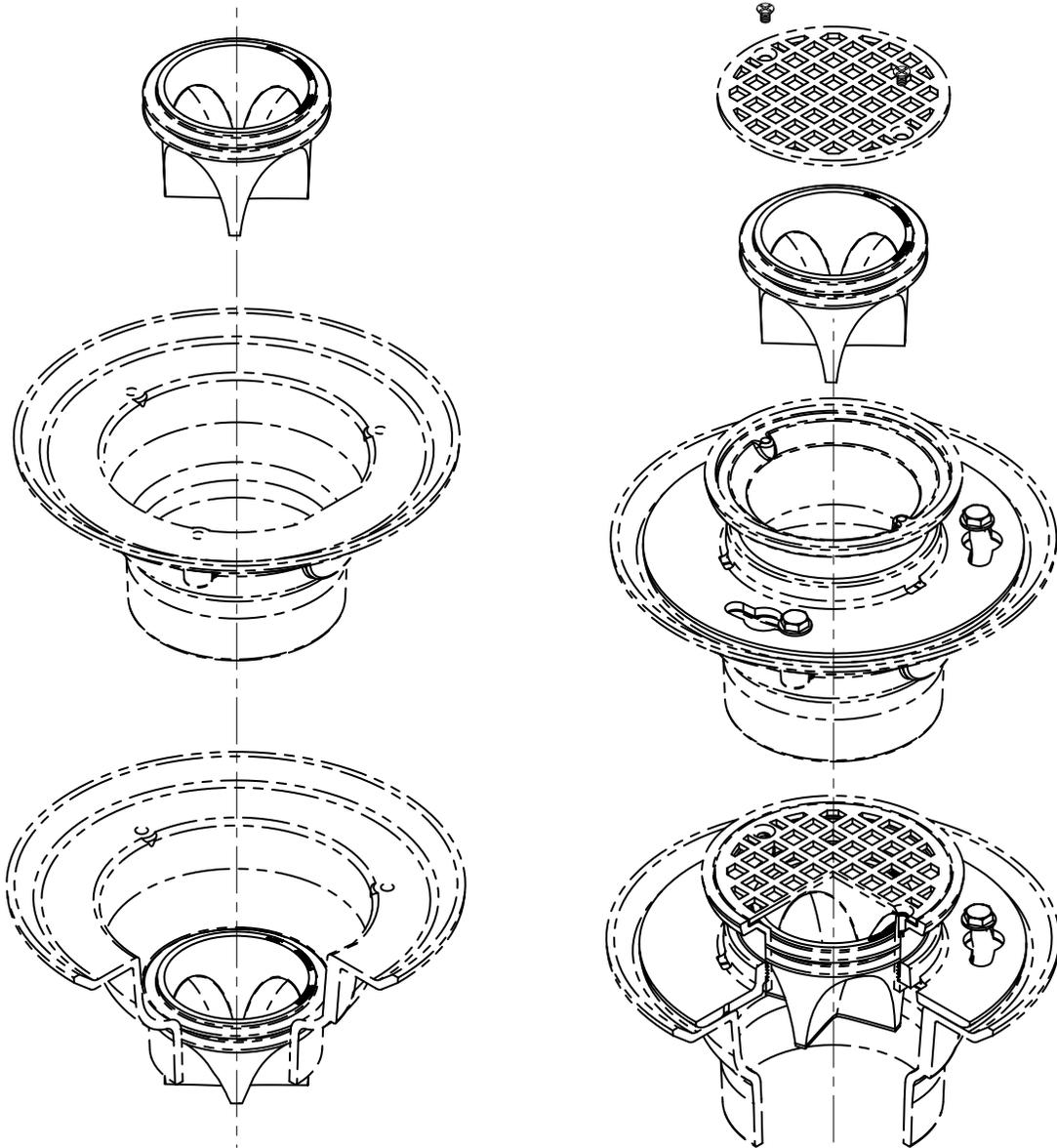
DRAWING NUMBER
s2692 BSSIZE
ASCALE:
NONEDATE:
5-20-08APPROVED BY:
JMCHECKED BY:
CLDRAWN BY:
RN

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DIMENSIONS ARE SUBJECT TO MANUFACTURERS TOLERANCE AND CHANGE WITHOUT NOTICE

QUAD CLOSE™ TRAP SEAL

Installation Illustrations



Installation in Drain
Body Outlet
02(50), 03(75) & 04(100) Sizes

Installation in Strainer
Throat
0350(89) Size

INSTALLATION: The 02(50), 03(75) & 04(100) Quad Close Trap Seal sizes install in the drain outlet. The 0350(89) Quad Close Trap Seal size installs in the throat of adjustable strainers. To install simply insert the Quad Close Trap Seal in the drain outlet or throat of strainer until the top of it is flush with top of drain outlet or strainer throat.

2692 BS

FIGURE
NUMBERC
B
A4-24-12
4-2-12
2-10-10Rev. Title, Installation
Added Note
Revised DrawingTBW
TBW
RNCL
DP
BWWEIGHT
POUNDSVOLUME
CUBIC FEET

FIGURE NUMBER

2692 BS

REV.

DATE

DESCRIPTION

BY

CKD. BY

American Society of Sanitary Engineering
FOR PLUMBING AND SANITARY RESEARCH



This certifies: **Jay R. Smith Mfg. Co.** has listed **Barrier Type Floor Drain Trap Seal Protection Devices**

Model:

2692-02 - 2"

2692-03 - 3"

2692-035 - 3 1/2"

2692-04 - 4"

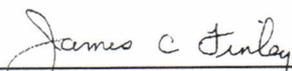
Was tested by **IAPMO R & T Lab** and has met the requirements as stated by ASSE Standard **1072 - 2007** is in compliance to the current edition of the Seal Control Board Procedures and has been granted permission by the Seal Control Board to display the ASSE Seal on **06/20/2012 amended 06/27/2012 and 10/18/2012.**

This authorization is issued for one (1) year from date hereon and is renewable annually or until such time as the standard has been revised or the product/s is found not in compliance. Display of the ASSE Seal is not a product endorsement.

The American Society of Sanitary Engineering has created the Seal Listing Program to encourage improvements in plumbing products and systems in the interests of greater protection of public health and safety.

ASSE Record Number: **1435**





ASSE Seal Control Board Chairperson

IAPMO RESEARCH AND TESTING, INC.

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CERTIFICATE OF LISTING

IAPMO Research and Testing, Inc. is a product certification body which tests and inspects samples taken from the supplier's stock or from the market or a combination of both to verify compliance to the requirements of applicable codes and standards. This activity is coupled with periodic surveillance of the supplier's factory and warehouses as well as the assessment of the supplier's Quality Assurance System. This listing is subject to the conditions set forth in the characteristics below and is not to be construed as any recommendation, assurance or guarantee by IAPMO Research and Testing, Inc. of the product acceptance by Authorities Having Jurisdiction.

Effective Date: April 2012 -Rev. 10/29/2012- Void After: April 2013

Product: Floor Drain Trap Seal Protection Devices File No. 7479

Issued To: Jay R. Smith Mfg. Co.
2781 Gunter Park Drive East
Montgomery, AL 36109

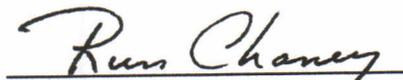
Identification: Each device shall be permanently and legibly marked with the manufacturer's name or trademark and the application designation (per Table 2 of ASSE 1072-2007). Product shall also bear the UPC® certification mark. Packaging shall bear the manufacturer's name or trademark, model number or description of the device, rating for type of floor, rated for grease-laden waste (if applicable), and the floor drain size.

Characteristics: Barrier type floor drain trap seal protection devices. Installation instructions shall not state or imply that the device may be used in lieu of a trap primer. Product to be installed with other IAPMO R&T listed fittings, in accordance with the manufacturer's instructions, and the requirements of the latest edition of the Uniform Plumbing Code.

Products listed on this certificate have been tested by an IAPMO R&T recognized laboratory. This recognition has been granted based upon the laboratory's compliance to the applicable requirements of ISO/IEC 17025.

Products are in compliance with the following code(s):
Uniform Plumbing Code (UPC®)

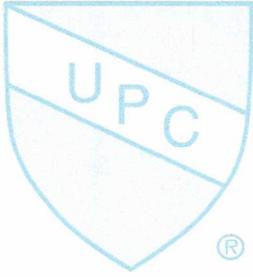

Chairman, Product Certification Committee


CEO, The IAPMO Group



For the most accurate and updated information please visit <http://pld.iapmo.org/7479>

This listing period is based upon the last date of the month indicated on the Effective Date and Void After Date shown above. Any change in material, manufacturing process, marking or design without having first obtained the approval of the Product Certification Committee, or any evidence of non-compliance with applicable codes and standards or of inferior workmanship, may be deemed sufficient cause for revocation of this listing. Production of or reference to this form for advertising purposes may be made only by specific written permission of IAPMO Research and Testing, Inc. Any alteration of this certificate could be grounds for revocation of the listing.



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CERTIFICATE OF LISTING

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-Rev. 10/29/2012-

Void After: April 2013

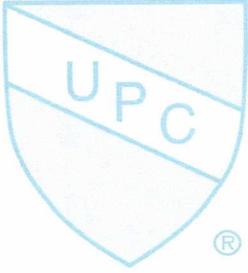
Product: Floor Drain Trap Seal Protection Devices

File No. 7479

Issued To: Jay R. Smith Mfg. Co.

Products are in compliance with the following standard(s):

ASSE 1072-2007



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CERTIFICATE OF LISTING

Page 3

-Rev. 10/29/2012-

Void After: April 2013

Product: Floor Drain Trap Seal Protection Devices

File No. 7479

Issued To: Jay R. Smith Mfg. Co.

MODELS:

<u>Model No.</u>	<u>Description</u>
2692-02	2" Quad Close Seal Device
2692-03	3" Quad Close Seal Device
2692-04	4" Quad Close Seal Device
2692-0350	3.5" Quad Close Seal Device

JAY R. SMITH MFG. CO.
TEN YEAR LIMITED WARRANTY
Quad Close Seal Trap Device, Figure Number 2692

The Quad Close Trap Seal device is guaranteed against defective materials and workmanship for a period of ten years from the date of purchase. Any product proven defective will be replaced free of charge providing that it has been properly installed, properly maintained, and used in accordance with recommended instructions. Jay R. Smith shall not be responsible for any labor charges or any loss, injury or damages whatsoever, including incidental or consequential damages. The implied warranty is limited solely to the replacement of the defective goods. This warranty is in lieu of other warranties, express, implied in fact or implied by law.