

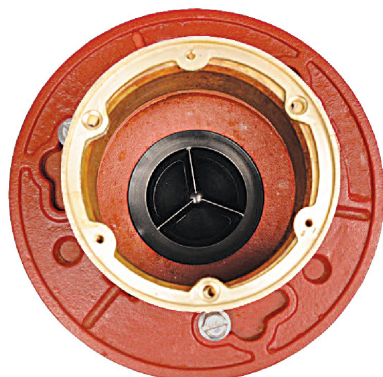
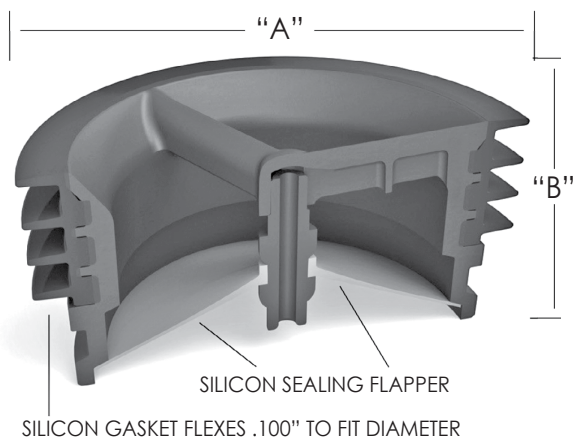
Specifications: Series inline floor drain trap seal with UV resistant ABS plastic frame, silicone rubber sealing flapper and four flexible sealing ribs. Tested and certified to the ASSE 1072 Standard and listed with IAPMO and I.C.C. Specify connection size (2" (51MM), 3" (76mm), 3 1/2" (89mm) or 4" (102mm))

Function: Used in the outlet connections of floor drain bodies, or the inside of floor drain strainers to seal the opening to prevent odors, sewer gases, and insects from entering up through the floor drain grate. The Green Drain's four flexible silicone sealing ribs ensure easy installation into openings that have variations in size. The Green Drain will open to allow drainage and close when there is no water flow. The Green Drain can be used in either new construction or retro-fit applications where trap primers were never installed.

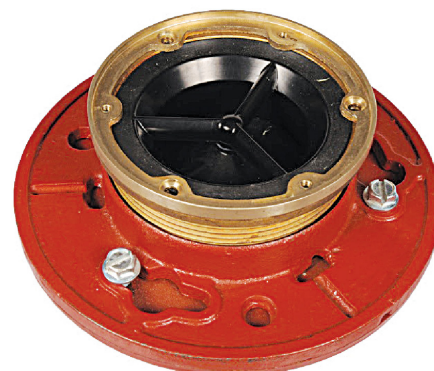
Prevents the following from entering through the top of floor drains:

- Odors and sewer/radon gases
- Insects and harmful pathogen spread

MODEL NUMBER	DEVICE SIZE		FLOW RATE	
	"A" PIPE SIZE INCH (mm)	"B" HEIGHT INCH (mm)	GPM	L/M
GD102	2" (51mm)	2" (51mm)	12.0	45.4
GD103	3" (76mm)	2" (51mm)	34.0	128.7
GD1035	3 1/2" (89mm)	2" (51mm)	51.0	193.0
GD104	4" (102mm)	2" (51mm)	73.0	276.3



BOTTOM OF BODY



TOP OF STRAINER

U.S. Patent #7,900,288





Prevents

- Drain Odors
- Pest Infiltration
- Sewer/Radon Gas Infiltration
- Harmful Biologic Aerosols

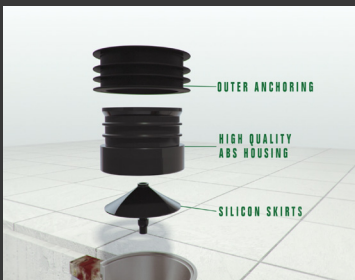
Product Benefits

- Increases Indoor Air Quality
- Protects the Public Health
- Green Technology
- Helps in LEED Certification

Product Features

- One way drain valve
- Ease of installation
- Does not impair flow rate

- Does not impair plumbing maintenance
- Provides sewage back-flow protection
- Universal Plumbing Code Certified



IAPMO RESEARCH AND TESTING, INC.

5001 East Philadelphia Street, Ontario, California 91761-2816 – USA • 909-472-4100 • 909-472-4244 • www.iapmort.org



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.

This certificate is not evidence of current listing. To verify listing status, visit the IAPMO R&T Product Listing Directory at pld.iapmo.org

Effective Date: July 2019 -Rev. 2/7/2020- Void After: July 2024

Product: Floor Drain Trap Seal Protection Devices File No. 9301

Issued To: Green Drain Inc
17111 Kenton Drive #200b
Cornelius, NC 28031

Identification: Each device shall be permanently and legibly marked with the manufacturer's name or trademark and the application designation for the type of floor which the product could be installed (Any Floor Finish (AF), Any Floor, Grease Laden Waste (AF-GW), Shower Floor (SF), Concrete Floor (CF), Ceramic Tile Floor (CT), Wood Floor (WF)) Product shall also bear the cUPC® 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. Trap seal device shall not 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 and the National Plumbing Code of Canada.

Products listed on this certificate have been tested by an IAPMO R&T recognized laboratory. This recognition has been granted based upon the


Chairman, Product Certification Committee


CEO, The IAPMO Group



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. This document shall be reproduced in its entirety.



IAPMO RESEARCH AND TESTING, INC.

CERTIFICATE OF LISTING

-Rev. 2/7/2020-

Void After: July 2024

Product: Floor Drain Trap Seal Protection Devices

File No. 9301

Issued To: Green Drain Inc

laboratory's compliance to the applicable requirements of ISO/IEC 17025.

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

Uniform Plumbing Code (UPC®)

National Plumbing Code of Canada

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

ASSE 1072-2007



IAPMO RESEARCH AND TESTING, INC.

CERTIFICATE OF LISTING

This certificate is not evidence of current listing. To verify listing status, visit the IAPMO R&T Product Listing Directory at pld.iapmo.org

-Rev. 2/7/2020-

Void After: July 2024

Product: Floor Drain Trap Seal Protection Devices

File No. 9301

Issued To: Green Drain Inc

Models:

<u>Model No.</u>	<u>Description</u>
GD2	2" Drain
GD3	3" Drain
GD35	3.5" Drain
GD4	4" Drain

IAPMO R&T OCEANA

1040 Dandenong Road, Carnegie VIC 3163 AUSTRALIA



IAPMO R&T Oceana is a product certification body which inspects and arranges for the independent laboratory testing of samples taken from the manufacturer's stock or from the market or a combination of both, to verify compliance of the requirements of applicable Standards and Specifications. This activity is coupled with periodic surveillance of the manufacturer's factory and any major subcontractor's site/s as well as the assessment of the manufacturer's Quality Assurance System. This certification 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 R&T Oceana of the product acceptance by Authorities Having Jurisdiction.

WATERMARK LICENCE

WaterMark Level 2

IAPMO R&T Oceana hereby grants to:

Green Drain Inc

15275 Collier Blvd Suit 201-262, Naples, FL, USA, 34119

the right to use the WaterMark in accordance with the "Procedures for Certification of Plumbing and Drainage Products - WaterMark Technical Specification" and the Plumbing Code of Australia only in respect of the certified product as described in the attached WaterMark Schedule. The Licence is granted subject to the rules governing the Watermark Certification Scheme and the Terms and Conditions for WaterMark Certification.

Evaluated to:

WMTS-522:2018

Barrier type floor drain trap seal protection devices

Manufacturer:

Refer to licence holder

Licence No.: WM-022837

(Certificate of Certification No.: IAPMO-WM-022837-I01-R00)

Certified Date: 30 July 2018

Issue Date: 30 July 2018

Expiry Date: 29 July 2021

A handwritten signature in cursive script that reads "Russ Chaney".

Chief Executive Officer of the IAPMO Group

This WaterMark certification is for the period indicated herein and is void after the date shown above. Any change in material, manufacturing process, marking or design without having first obtained the approval of IAPMO R&T Oceana, or any evidence of non-compliance with applicable Standards, Specifications or of inferior workmanship, may be deemed sufficient cause for revocation of this certification. Reproduction of or reference to this certificate for advertising purposes may be made only by specific written permission of IAPMO R&T Oceana. Any alteration of this certificate could be grounds for revocation of this certification.

HACCP INTERNATIONAL

eliminate the hazard - reduce the risk



This is to certify that

Green Drain Inc

Floor drain trap seals

GD2, GD3, GD35, GD4 and GD5-EU

are certified as suitable for use in
floor drains in facilities that operate a

HACCP based Food Safety Programme

noting the conditions of the certification statement

Food Zone Classification: SSZ

in accordance with the standards of
**HACCP International's Food Safety
Certification Systems**

Issued by Approved

23 August 2018

Issue Date

5 September 2020

Expiry Date

This certificate belongs to HACCP International and must be returned upon demand. All products and services to which this certificate refers are evaluated prior to reissue. To verify certification or conditions, please email certification@haccp-international.com


Issued by the HACCP International Certification office:
No. 3 Ridgewest Building, 1 Ridge Street, North Sydney NSW 2060 Australia

Certificate Number

I-PE-891-GRE-R1-01

Certification Statement	I-PE-891-GRE-R1-01
Green Drain Inc	
Certificate Expiry Date	5 September 2020
Floor drain trap seals Food Zone Classification: SSZ GD2 GD3 GD35 GD4 GD5-EU	

HACCP International certifies the products listed above as suitable for use in floor drains in food facilities that operate a HACCP based food safety programme.

Licence Commencement	23 August 2018
Certification Issue Date 	23 August 2018

HACCP International's evaluation and certification is strictly confined to matters of food safety or the operation of a HACCP based food safety programme. Whilst all reasonable care is taken by HACCP International in its evaluation of the product(s) or services(s) described herein, HACCP International does not guarantee that every food safety risk in every application has been identified. No guarantee is offered or implied in the issuing of this statement.

Licence Agreement

Green Drain Inc is licensed to use the HACCP International certification mark, in accordance with HACCP International's Certification Trade Mark Rules and Conditions in Region 1 (Australasia), in respect of the products listed above, for a period of 24 months from the licence commencement date. Green Drain Inc is in receipt of the HACCP International Pty Ltd Certification Trade Mark Rules and Conditions v3.0 and agrees to abide by the conditions therein.

Licensee's Signature:

Date:

AMERICAS :
GAI Building
618 E South Street
Suite 500, Orlando
Florida 32801 USA
T: +1 407 992 6223

ASIA PACIFIC :
Unit 6601,
66/F The Centre
99 Queen's Road
Central, Hong Kong, SAR
T: +852 2824 8601

AUSTRALIA :
3/1 Ridge Street,
North Sydney
NSW 2060 Australia
ABN 98 138 356 359
T: +61 2 9956 6911

EUROPE :
3 Aspen Road
Chartham Downs
Canterbury, Kent CT4 7TB
United Kingdom
T: +44 1227 731745



Most Widely Accepted and Trusted

ICC-ES Report

PMG-1312

Reissued 02/2016

ICC-ES | (800) 423-6587 | (562) 699-0543 | www.icc-es.org

This report is subject to renewal 02/2017

EVALUATION SUBJECT:

FLOOR DRAIN TRAP SEAL PROTECTION DEVICES

DIVISION:

22 00 00—PLUMBING

SECTION:

22 13 16—SANITARY WASTE AND VENT PIPING

Report Holder:

GREEN DRAIN, INC.

335 N. PUENTE STREET
BREA, CA 92821



Look for the ICC-ES marks of Conformity!



ICC-ES Evaluation Reports are not to be construed as representing aesthetics or any other attributes not specifically addressed, nor are they to be construed as an endorsement of the subject of the report or a recommendation for its use. There is no warranty by ICC Evaluation Service, LLC, express or implied, as to any finding or other matter in this report, or as to any product covered by the report. Copyright © 2016 ICC Evaluation Service, LLC. All rights reserved.



ICC-ES PMG Listing**PMG-1312**

Effective Date: February 2016

This listing is subject to re-examination in one year.

www.icc-es-pmg.org | (800) 423-6587 | (562) 699-0543

A Subsidiary of the International Code Council®

CSI: DIVISION: 22 00 00—PLUMBING
Section: 22 13 16—Sanitary Waste and Vent Piping

Product certification system:

The ICC-ES product certification system includes testing samples taken from the market or supplier's stock, or a combination of both, to verify compliance with applicable codes and standards. The system also involves factory inspections, and assessment and surveillance of the supplier's quality system.

Product: Floor Drain Trap Seal Protection Devices

Listee: Green Drain Inc.
335 N. Puente Street
Brea, CA 92821
www.greendrains.com

Compliance with the following codes:

2015, 2012, 2009 and 2006 *International Plumbing Code*® (IPC)
2015, 2012, 2009 and 2006 *International Residential Code*® (IRC)
2015, 2012, 2009 and 2006 *Uniform Plumbing Code*® (UPC)*
2010 and 2005 *National Plumbing Code of Canada*® **

**Uniform Plumbing Code* is a copyrighted publication of the International Association of Plumbing and Mechanical Officials

***National Plumbing Code of Canada* is a copyrighted publication of National Research Council Canada

Compliance with the following standards:

ASSE 1072-2007, Performance Requirements for Barrier Type Floor Drain Trap Seal Protection Devices, American Society of Sanitary Engineering
CSA B79-2008 (R13), Floor, Area and Shower Drains, and Cleanouts for Residential Construction
ICC-ES LC1015, PMG Listing Criteria for Elastomeric, Normally Closed, Floor Drain Evaporation Resistant Sealing System (Oct 2010)

Identification:

The product and/or package must bear the manufacturer's name, the model number and the ICC-ES PMG listing mark.

Installation:

The Green Drain Inc. trap primer alternates are to be installed in accordance with the manufacturer's instructions and the applicable code.

Models:

<u>MODEL</u>	<u>Device SIZE</u>		<u>FLOW RATE</u>	
	<u>Inches</u>	<u>mm DN</u>	<u>GPM</u>	<u>L/M</u>
GD102	2	40	12.0	45.4
GD103	3	50	34.0	128.7
GD1035	3 ¹ / ₂	80	51.0	193.0
GD104	4	100	73.0	276.3

Conditions of listing:

1. The Green Drain Inc.devices, recognized by this listing, are intended to serve as alternates to the code- required trap primer. They must serve a functioning trap.
2. The plumbing systems must be installed in accordance with the applicable codes.
3. The "Device" must be accessible.
4. The Green Drain Inc.trap primer alternates are manufactured in Xiamen, China under a quality control program with annual surveillance inspections.





TEST REPORT

5001 East Philadelphia Street
Ontario, California – USA 91761-2816

Ph: 909.472.4100 | Fax: 909.472.4243
<http://www.iapmortl.org>

Report Number: 1554-15003

Report Issued: June 24, 2015

Project No.: 24772

Client: Green Drain, Inc.
335 North Puente Street # F
Brea, CA 92821

Contact: Ben Wilson

Source of Samples: The samples were shipped to IAPMO R&T Lab from Green Drain, Inc., and received in good condition on April 02, 2015, and May 18, 2015.

Date of Testing: May 18, 2015 to June 23, 2015.

Sample Description: Trap Seal Devices

Models: *GD-102 (2")
GD-103 (3")
GD-103-5 (3.5")
*GD-104 (4")

“*” = tested samples.

Scope of Testing: The purpose of the testing was to determine whether the samples of the Trap Seal Devices met the applicable requirements of ASSE Standard # 1072-2007, “Barrier Type Floor Drain Trap Seal Protection Devices”.

Conclusion: The samples tested of the Trap Seal Devices from Green Drain, Inc., models as shown above, complied with the applicable requirements of ASSE 1072-2007.

By our signatures below, we certify that all the testing and sample preparation for this report was performed under continuous, direct supervision of IAPMO R&T Lab, unless otherwise stated.

Tested By,

Reviewed by,

Frank Lopez, Test Technician

Sean Vuu, P.E., Specialty Projects Manager

All testing and sample preparation for this report was performed under the continuous, direct supervision of IAPMO R&T Lab, unless otherwise stated. The observations, test results and conclusions in this report apply only to the specific samples tested and are not indicative of the quality or performance of similar or identical products. Only the Client shown above is authorized to copy or distribute the report, and then only in its entirety. Any use of the IAPMO R&T Lab name for the sale or advertisement of the tested material, product or service must first be approved in writing by IAPMO R&T Lab.

Primary Standards: ASSE Standard # 1072-2007 / Section tested:

1. General
2. Test Specimens
3. Performance Requirements and Compliance Testing
4. Detailed Requirements

Test Results: All tests and evaluations were conducted per the written procedures specified in the ASSE Standard # 1072-2007.

ASSE Standard # 1072-2007:

1.2 Scope:

1.2.1 Description – FOLLOWED

The devices consisted of a membrane that allowed the flow of drainage to enter the plumbing drainage system. The devices closed when there was no flow.

1.2.2 Size – COMPLIED

The devices were sized according to the outlet sizes of the floor drains (2", 3", 3.5" and 4").

1.2.3 Flow Capacity – COMPLIED

The devices permitted the flows of drainage as stipulated in Table 1 of this standard (refer to section 3.1).

1.2.4 Rating – FOLLOWED

The devices were rated for the type of floor or floor finish in which the floor drain can be installed "AF-GW".

1.3 Construction – COMPLIED

1.3.1 Function: the devices opened when there is a maximum of 4 oz of water on the inlet to the device, and closed when there was no flow of wastewater into the devices (refer to section 3.4).

1.3.2 Evaporation: the devices passed the evaporation test described in Section 3.2 of this standard.

1.3.3 Obstruction of Flow: to prevent the collection of waste solids, the opening passageways in the device did not have any sharp edges or protrusions which would obstruct the flow to the drainage system or result in stoppages. The devices did not obstruct access to the interior of the floor drain trap.

1.3.4 Connections Within Floor Drain: the device connected within a floor drain that conformed to ANSI/ASME A112.6.3.

2.0 Test Specimens:

2.1 Sample Submitted – FOLLOWED

6 devices of each size and model were submitted by the manufacturer.

2.2 Samples Tested – FOLLOWED

1 sample was selected to be tested in order to sections 3.1 through 3.7 and additional 1 sample was selected to be tested to section 3.2, and another 1 sample was selected to be tested to section 3.8 of this standard.

2.3 Drawings – FOLLOWED

Assembly drawings, installation drawings, and other data which were necessary to enable the testing agency to determine compliance with this standard were accompanied assemblies when submitted for examination and performance testing under this standard.

2.4 Rejections – FOLLOWED

Failure of 1 device being tested shall be cause for rejection of that type or model and size.

3.0 Performance Requirements and Compliance Testing

3.1 Flow Test – COMPLIED

When tested to section 3.1.2 of this standard, the trap seals were able to flow at 12 gpm (2") and 73 gpm (4") for 10 minutes without overflowing the open sides of the pans.

3.2 Evaporation Test – COMPLIED

When tested to section 3.2.2 of this standard for 96 hours at 100°F, 20% relative humidity, the weight loss in cylinder A: 70.41g (2"), 269.9g (4"), cylinder B: 2.64g (2"; 3.75% of cylinder A), 7.8g (4"; 2.89% of cylinder A), cylinder C: 1.47 g (2"), 3.3g (4").

3.3 Trap Seal Interference Test – COMPLIED

When tested to section 3.3.2 of this standard, there was no protrusion of the device into the floor drain trap seal.

3.4 Opening Test – COMPLIED

When tested to section 3.4.2 of this standard, the devices started to open at: 1.31g (2"), and 2.2g (4").

3.5 Dirt and Debris Test – COMPLIED

When tested to section 3.5.2 of this standard, and subjected to section 3.2 for 96 hours, the weight loss in cylinder A: 75.42g (2"), 253.3g (4"), cylinder B: 2.53g (2"; 3.35% of cylinder A), 8.4g (4"; 3.32% of cylinder A), cylinder C: 1.44g (2"), 3.0g (4").

3.6 Floor Wax Test – COMPLIED

When tested to section 3.6.2 of this standard at 1 GPM, the devices did not overflow the floor drain top grates.

3.7 Grease Test – COMPLIED

When tested to section 3.7.2 of this standard at 1 GPM, the devices did not overflow the floor drain top grates.

3.8 Life Cycle Test – COMPLIED

After tested to section 3.8.2 of this standard, and subjected to section 3.2 for 96 hours, the weight loss in cylinder A: 77.59g (2”), 290g (4”), cylinder B: 3.2g (2”); 4.12% of cylinder A), 9.7g (4”); 3.34% of cylinder A), cylinder C: 1.73 g (2”), 4.2g (4”).

3.9 Physical Test of Membrane Material – COMPLIED (refer to CRT report no.: 19741-S1).

4.1 Materials - COMPLIED

4.1.1 Dissimilar Metals – NOT APPLICABLE (no metal).

4.1.2 Internal Metallic Parts – NOT APPLICABLE (no metal).

4.1.3 Non-metallic Parts - COMPLIED

Nonmetallic part (rubber & plastic) was designed for the rated operating temperature of the device without change in physical characteristics that would prevent full compliance with all requirements of this standard.

4.2.1 Marking of Devices – COMPLIED

Each device had the following information marked (molded), which is visible:

- a) Trademark “GREEN DRAIN” (per drawings).
- b) Application designation “AF-GW”.

4.2.2 Packaging - COMPLIED

Each device had the following information marked (printed) on the packaging:

- a) Manufacturer’s name “The Green Drain”
- b) Model number
- c) Rating for type of floor “AF-GW”
- d) Floor drain size.

4.3 Installation Instruction - COMPLIED

Instruction for installation of the device “press to install in drain outlet” was printed on the package.





Testing of floor drain trap seal protection devices, type Green Drain from HOPE A/S

Testing report

Project number: 713952

Performed for:

Producer:
Green Drain Inc.
15275 Collier Blvd.
Suite 201-262
Naples, FL 34119

General distributor
HOPE A/S
Borupvang 3
2750 Ballerup

Keywords: Sewer, testing, floor drain trap seal protection devices

Testing made by:

Danish Technological Institute, Pipe Centre
Gregersensvej
2630 Taastrup
Denmark
v/ Stig Clausen

Number of pages: 5

Number of appendices: 1

Taastrup, October 19th 2016



1. Testing

1.1. Test pieces

The product tested is a floor drain trap seal protection device without water, produced by "Green Drain" from the company HOPE A/S. The floor drain trap seal protection devices acts as a kind of rubber valve by being effectively sealed when there is no water flow. The submitted products are marked with the "Green Drain - Drain Floor Trap Seal" on the package. The products itself was not labeled.

1.2. Purpose and scope of the test

The test was completed with the aim to get a review of the floor drain trap seal protection devices self-cleaning capacity, water flow through the floor drain trap seal protection devices and its sensitivity to pressure or vacuum.

1.3. Test implementation

The test was carried out at the Pipe Centre, Danish Technological Institute, Taastrup, Denmark from the 5th to the 28th of September 2016.

The design and the tests are based on DS/EN 1253-1, but some adjustments had to be made, since this product is a floor drain trap seal protection device and not a water trap:

1. Testing of resistance to vacuum and pressure. The test was conducted by principle from DS/EN 1253-1, but only with air and without water
2. Testing of self-cleaning ability by DS/EN 1253-1, Section 5.4.2. Testing was carried out by performing temperature test according to DS/EN 1253-1 section 5.5.1, but only for 48 hours and then test with a water flow of 1.4 l/s, as this is considered the most critical cases.
3. Testing the water flow through the floor drain trap seal protection devices to horizontal positioning is performed by DS/EN 1253-1, Section 4.8.1
4. The retention of the floor drain trap seal protection devices. The specimen was mounted in several different types of floor drains in order to assess the retention of the product.

1.4. Results

The results of the tests were as follows:

1. Testing of vacuum and pressure. The result was, that the floor drain trap seal protection devices withstand a pressure > 400 pa (40 mm water column). In turn, the floor drain trap seal protection device coped with less than 20 pa negative pressure (suction) from the drain installation. Additionally opens the floor drain trap seal protection device completely in conjunction with major deposits etc. to pass through.

Danish Technological Institute	Pipe Centre	Page 3 of 6
Project number: 713952	Test conducted: September 2016	



2. Testing of self-cleaning ability. Self-cleaning ability of the trial after the temperature cycle test was satisfactory, since no bullets were retained.
3. Testing of the water flow. The result was, that the flow of water through the floor drain trap seal protection device was about 1.4 l/s, which is accepted according to EN 1253-1.
4. Adhering to the pipe/floor drain was quite different in the three different types of floor drains, which the product was installed in. In particular, for one floor drain, the adhering was only mediocre.

1.5. Conclusion

The conclusion of the tests of the product "Green Drain" from the company HOPE A/S are:

- The floor drain trap seal protection device had no problems coping with pressure (pressure from the drain installation and out through floor drain trap seal protection devices) from drain installation. In turn, the valve opened by the small negative pressure (suction from the drain installation through the floor drain trap seal protection devices).
- In DS 432, section 4.8 states that traps should be able to handle both 400 pa pressure or vacuum. This floor drain trap seal protection devices work without water and if it is to be used in drainage systems, the user must be aware that it only works against pressure and that the valve can be open briefly, if larger deposits must pass through the valve.
- The floor drain trap seal protection device meets the requirements for water flow in horizontal position and has a satisfactory self-cleaning ability.
- In terms of ensuring the retention, it is recommended that the product can be purchased with a fastening device, for example, a line of suitable material such as the floor drain trap seal protection devices can placed again if it moves up.

Danish Technological Institute, Pipe Centre

October the 19th 2016

Stig Clausen

Consultant

Ulrik Hindsberger

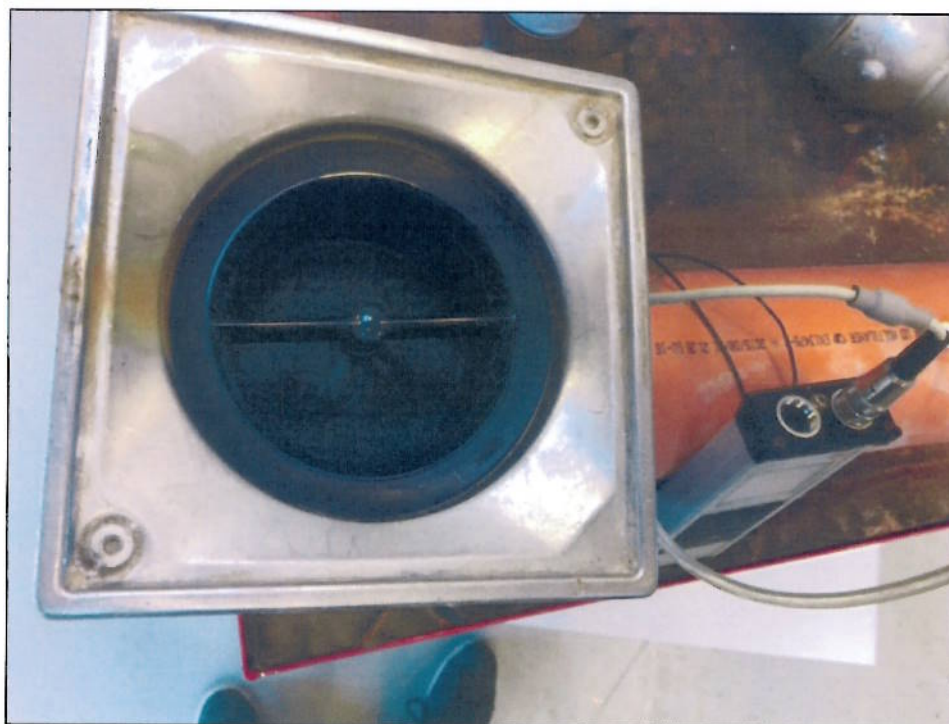
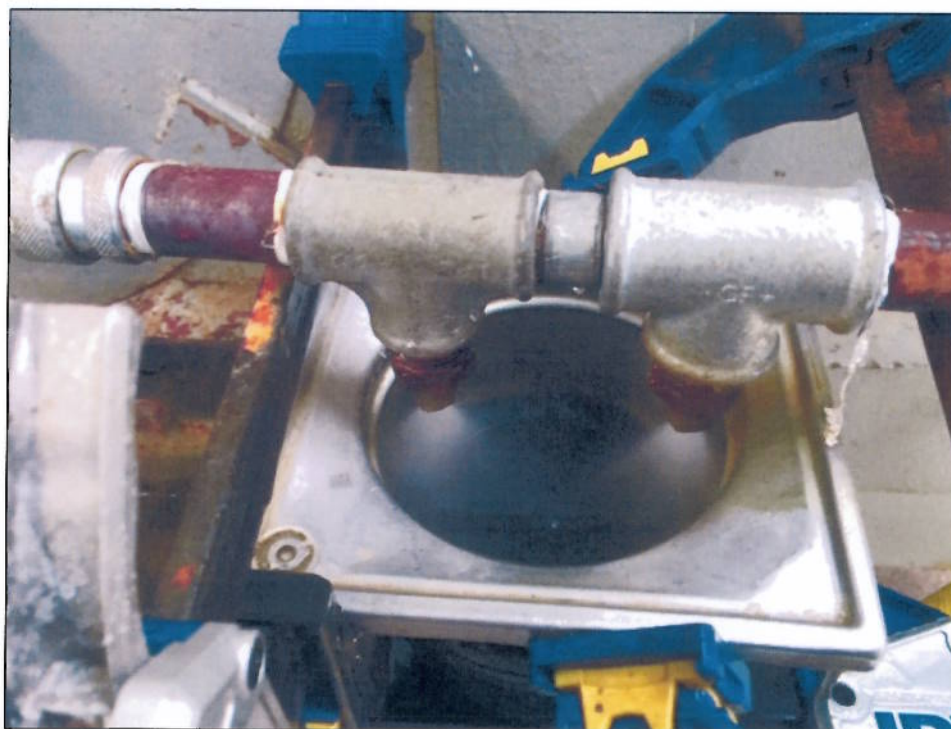
Centre Manager

Appendix 1: Photographs of test samples and photos of test





Appendix 1: Photographs of test samples and photos of test (continued)



Appendix 1: Photographs of test samples and photos of test (continued)

