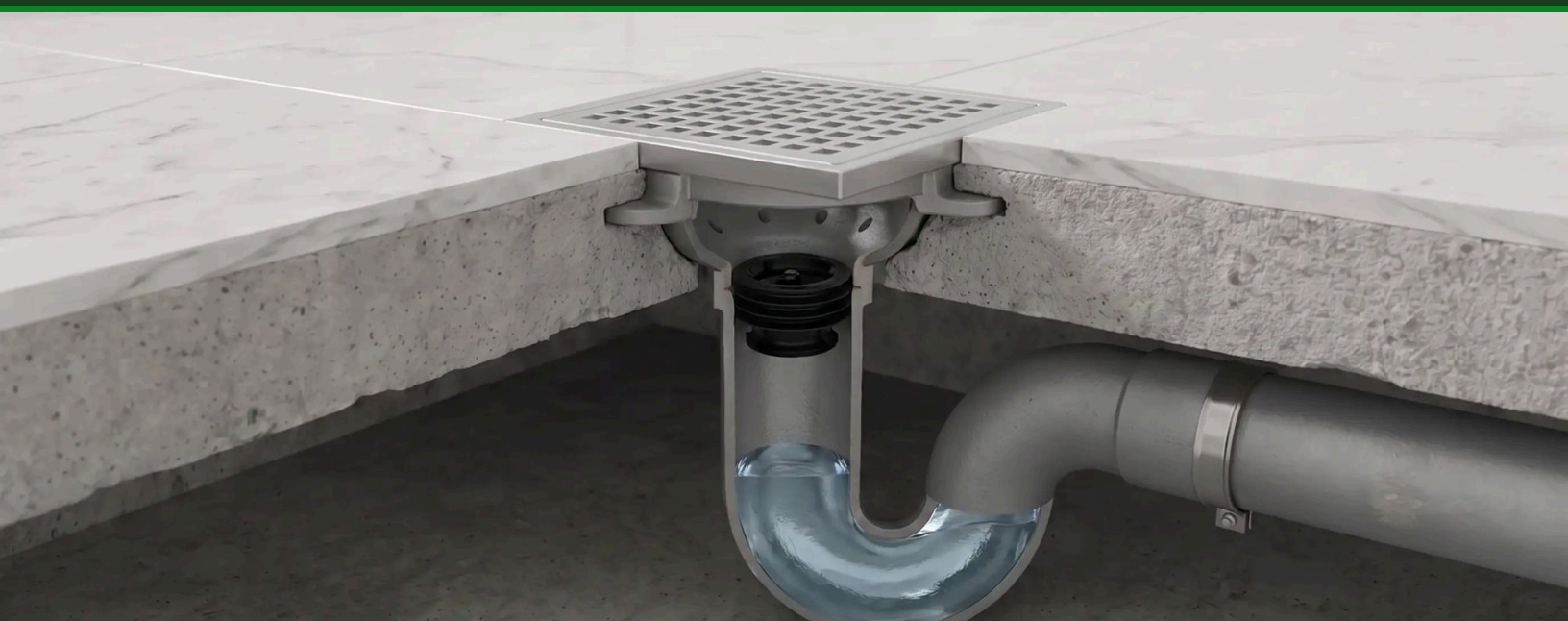




WATERLESS TRAP SEALS

Product Specification Pack

Specification sheets for every model, current certifications, and independent test reports. For specifying engineers, plan reviewers, and facility teams.



INDEPENDENTLY CERTIFIED



cUPC Listed



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OCTOBER 2026

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SECTION 1

Product Specification Sheets

One engineering specification sheet per model, GD125 (1.25") through GD6 (6"), including the transition sizes. Each sheet carries the plan and section views with measured dimension callouts, the dimension table, the engineering specification paragraph, compliance listings, and performance reference data.



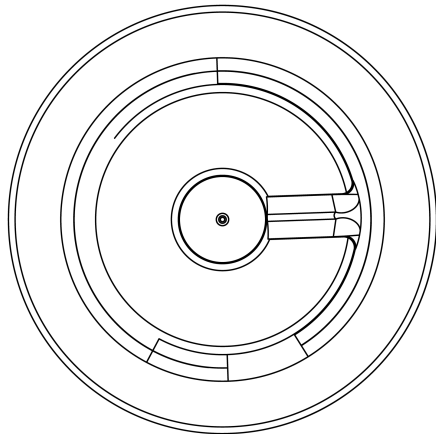
GD125 Waterless Trap Seal

Barrier-type trap seal protection device for 1.25" floor drain outlets

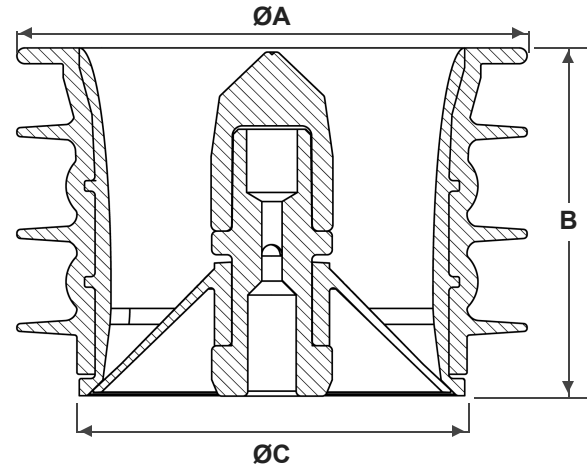
Fits pipe I.D. 1.26 to 1.50 in [32 to 38 mm]

TAG _____

Design and dimensional data (inches and [mm]) are subject to manufacturing tolerances and change without notice.



PLAN VIEW



SECTION A-A

DIMENSIONS inches [mm]

Fits pipe I.D.	1.26 to 1.50 [32 to 38]
ØA with gasket	1.583 [40.22]
B overall height	1.081 [27.45]
ØC housing at widest	1.192 [30.27]

INSTALLATION

1. Fits the drain outlet below the strainer. No tools needed for standard retrofits.
2. Recess **2" to 4" [50-100 mm]** into the outlet for maximum flow.
3. Install per the manufacturer's instructions and the applicable plumbing code.
4. Inspect at 6 to 12 months in service; replace only as needed.

PERFORMANCE

Flow, Level U	7.7 GPM [29.22 L/min] , unrestricted
Flow, Level C	1.9 GPM [7.27 L/min], controlled
Cycle life	2,500+ cycles (ASSE 1072)
Temperature	-40°F to 212°F [-40°C to 100°C]

ENGINEERING SPECIFICATION

Trap seal protection device shall be Green Drain™ model GD125, barrier type, for 1.25" floor drain outlets (pipe I.D. 1.26 to 1.50 in): rigid ABS housing, silicone compression gasket, and a normally closed one-piece silicone skirt that opens under water flow and recloses when flow stops. Device shall comply with the performance requirements of ASSE 1072, shall be listed by IAPMO R&T (cUPC, File 9301) for use under the Uniform Plumbing Code and the National Plumbing Code of Canada, and shall be permanently marked AF-GW (any floor, grease laden waste). Device is recognized as a trap seal protection method under the International Plumbing Code (IPC 1002.4.1.4) and may be used in lieu of a trap primer where permitted by the applicable plumbing code.

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CERTIFICATIONS

cUPC	IAPMO R&T File 9301, ASSE 1072-2020, AF-GW
WaterMark	WM-022837 (DN32), WMTS-522:2021
NSF/ANSI 2	Listed, food equipment
CE	Marked, ETA-18/0536
HACCP	Certified by HACCP International
Saber	TÜV Rheinland, 78636-007-25-2130858
Prop 65	Compliant, no warning label (CTT2007011136EN)



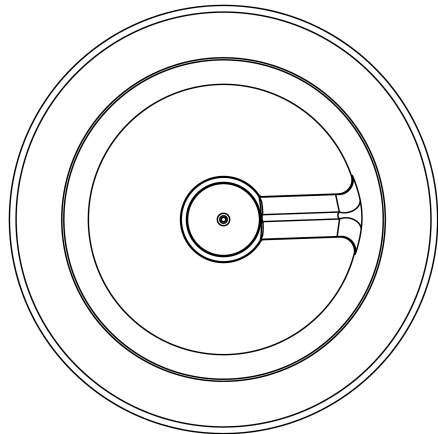
GD15 Waterless Trap Seal

Barrier-type trap seal protection device for 1.5" floor drain outlets

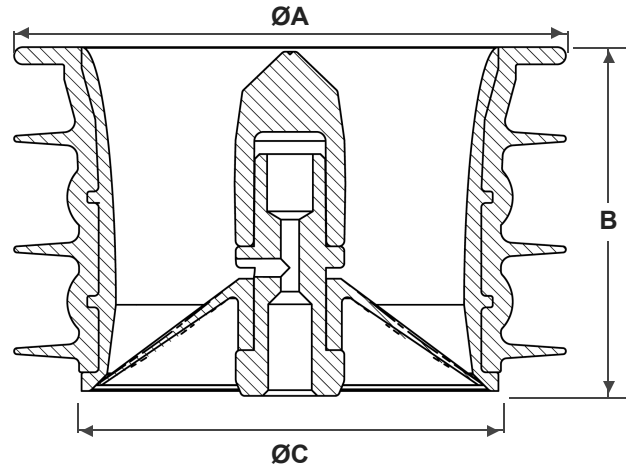
Fits pipe I.D. 1.54 to 1.85 in [39 to 47 mm]

TAG _____

Design and dimensional data (inches and [mm]) are subject to manufacturing tolerances and change without notice.



PLAN VIEW



SECTION A-A

DIMENSIONS inches [mm]

Fits pipe I.D.	1.54 to 1.85 [39 to 47]
ØA with gasket	1.920 [48.77]
B overall height	1.188 [30.18]
ØC housing at widest	1.435 [36.46]

INSTALLATION

1. Fits the drain outlet below the strainer. No tools needed for standard retrofits.
2. Recess **2" to 4" [50-100 mm]** into the outlet for maximum flow.
3. Install per the manufacturer's instructions and the applicable plumbing code.
4. Inspect at 6 to 12 months in service; replace only as needed.

PERFORMANCE

Flow, Level U	13.6 GPM [51.55 L/min] , unrestricted
Flow, Level C	6.4 GPM [24.21 L/min], controlled
Cycle life	2,500+ cycles (ASSE 1072)
Temperature	-40°F to 212°F [-40°C to 100°C]

ENGINEERING SPECIFICATION

Trap seal protection device shall be Green Drain™ model GD15, barrier type, for 1.5" floor drain outlets (pipe I.D. 1.54 to 1.85 in): rigid ABS housing, silicone compression gasket, and a normally closed one-piece silicone skirt that opens under water flow and recloses when flow stops. Device shall comply with the performance requirements of ASSE 1072, shall be listed by IAPMO R&T (cUPC, File 9301) for use under the Uniform Plumbing Code and the National Plumbing Code of Canada, and shall be permanently marked AF-GW (any floor, grease laden waste). Device is recognized as a trap seal protection method under the International Plumbing Code (IPC 1002.4.1.4) and may be used in lieu of a trap primer where permitted by the applicable plumbing code.

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CERTIFICATIONS

cUPC	IAPMO R&T File 9301, ASSE 1072-2020, AF-GW
WaterMark	WM-022837 (DN40), WMTS-522:2021
NSF/ANSI 2	Listed, food equipment
CE	Marked, ETA-18/0536
HACCP	Certified by HACCP International
Saber	TÜV Rheinland, 78636-007-25-2130858
Prop 65	Compliant, no warning label (CTT2007011136EN)



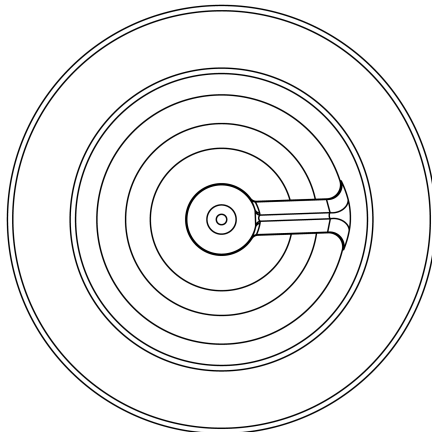
GD2 Waterless Trap Seal

Barrier-type trap seal protection device for 2" floor drain outlets

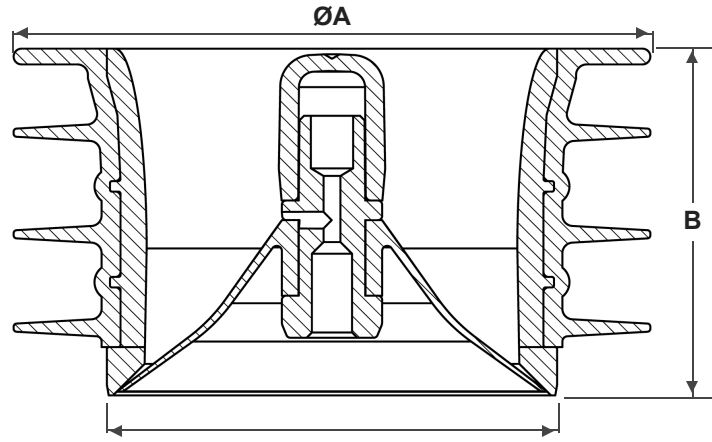
Fits pipe I.D. 2.01 to 2.32 in [51 to 59 mm]

TAG _____

Design and dimensional data (inches and [mm]) are subject to manufacturing tolerances and change without notice.



PLAN VIEW



SECTION A-A

DIMENSIONS inches [mm]

Fits pipe I.D.	2.01 to 2.32 [51 to 59]
ØA with gasket	2.384 [60.55]
B overall height	1.287 [32.70]
ØC housing at widest	1.680 [42.66]

INSTALLATION

1. Fits the drain outlet below the strainer. No tools needed for standard retrofits.
2. Recess **2" to 4" [50-100 mm]** into the outlet for maximum flow.
3. Install per the manufacturer's instructions and the applicable plumbing code.
4. Inspect at 6 to 12 months in service; replace only as needed.

PERFORMANCE

Flow, Level U	21.8 GPM [82.50 L/min] , unrestricted
Flow, Level C	9.3 GPM [35.25 L/min] , controlled
Opening	20 g of water; ASSE 1072 allows up to 120 g
Cycle life	2,500+ cycles (ASSE 1072)
Temperature	-40°F to 212°F [-40°C to 100°C]

ENGINEERING SPECIFICATION

Trap seal protection device shall be Green Drain™ model GD2, barrier type, for 2" floor drain outlets (pipe I.D. 2.01 to 2.32 in): rigid ABS housing, silicone compression gasket, and a normally closed one-piece silicone skirt that opens under water flow and recloses when flow stops. Device shall comply with the performance requirements of ASSE 1072, shall be listed by IAPMO R&T (cUPC, File 9301) for use under the Uniform Plumbing Code and the National Plumbing Code of Canada, and shall be permanently marked AF-GW (any floor, grease laden waste). Device is recognized as a trap seal protection method under the International Plumbing Code (IPC 1002.4.1.4) and may be used in lieu of a trap primer where permitted by the applicable plumbing code.

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CERTIFICATIONS

cUPC	IAPMO R&T File 9301, ASSE 1072-2020, AF-GW
WaterMark	WM-022837 (DN50), WMTS-522:2021
NSF/ANSI 2	Listed, food equipment
CE	Marked, ETA-18/0536
HACCP	Certified by HACCP International
Saber	TÜV Rheinland, 78636-007-25-2130858
Prop 65	Compliant, no warning label (CTT2007011136EN)



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Prop 65 Compliant

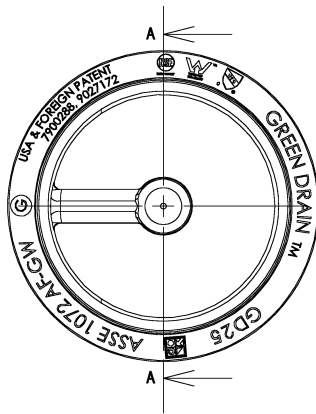
GD25 Waterless Trap Seal

Barrier-type trap seal protection device for 2.5" floor drain outlets

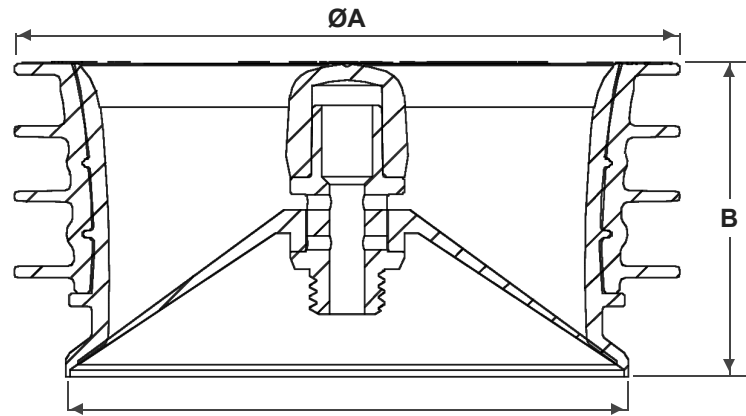
Fits pipe I.D. 2.17 to 2.56 in [55 to 65 mm]

TAG _____

Design and dimensional data (inches and [mm]) are subject to manufacturing tolerances and change without notice.



PLAN VIEW



SECTION A-A

DIMENSIONS inches [mm]

Fits pipe I.D.	2.17 to 2.56 [55 to 65]
ØA with gasket	2.913 [74.00]
B overall height	1.374 [34.90]
ØC housing at widest	2.466 [62.65]

INSTALLATION

1. Fits the drain outlet below the strainer. No tools needed for standard retrofits.
2. Recess **2" to 4" [50-100 mm]** into the outlet for maximum flow.
3. Install per the manufacturer's instructions and the applicable plumbing code.
4. Inspect at 6 to 12 months in service; replace only as needed.

PERFORMANCE

Flow, Level U	19.2 GPM [72.50 L/min] , unrestricted
Flow, Level C	8.9 GPM [33.80 L/min], controlled
Cycle life	2,500+ cycles (ASSE 1072)
Temperature	-40°F to 212°F [-40°C to 100°C]

ENGINEERING SPECIFICATION

Trap seal protection device shall be Green Drain™ model GD25, barrier type, for 2.5" floor drain outlets (pipe I.D. 2.17 to 2.56 in): rigid ABS housing, silicone compression gasket, and a normally closed one-piece silicone skirt that opens under water flow and recloses when flow stops. Device shall comply with the performance requirements of ASSE 1072, shall be listed by IAPMO R&T (cUPC, File 9301) for use under the Uniform Plumbing Code and the National Plumbing Code of Canada, and shall be permanently marked AF-GW (any floor, grease laden waste). Device is recognized as a trap seal protection method under the International Plumbing Code (IPC 1002.4.1.4) and may be used in lieu of a trap primer where permitted by the applicable plumbing code.

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WaterMark	WM-022837 (DN65), WMTS-522:2021
NSF/ANSI 2	Listed, food equipment
CE	Marked, ETA-18/0536
HACCP	Certified by HACCP International
Prop 65	Compliant, no warning label



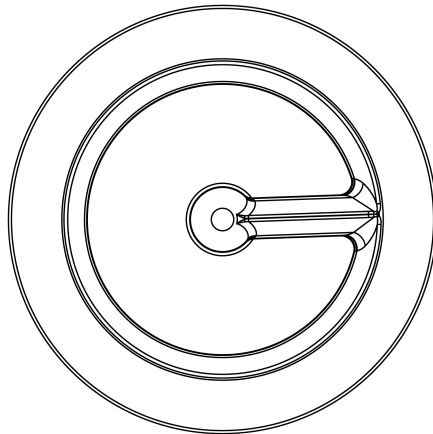
GD3 Waterless Trap Seal

Barrier-type trap seal protection device for 3" floor drain outlets

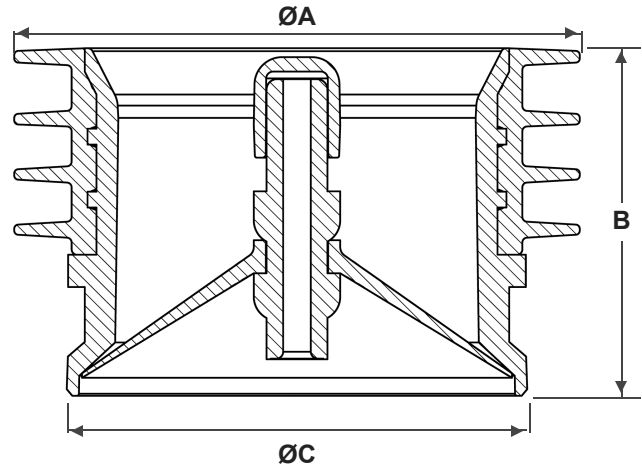
Fits pipe I.D. 2.68 to 3.19 in [68 to 81 mm]

TAG _____

Design and dimensional data (inches and [mm]) are subject to manufacturing tolerances and change without notice.



PLAN VIEW



SECTION A-A

DIMENSIONS inches [mm]

Fits pipe I.D.	2.68 to 3.19 [68 to 81]
ØA with gasket	3.258 [82.76]
B overall height	1.988 [50.50]
ØC housing at widest	2.625 [66.68]

INSTALLATION

1. Fits the drain outlet below the strainer. No tools needed for standard retrofits.
2. Recess **2" to 4" [50-100 mm]** into the outlet for maximum flow.
3. Install per the manufacturer's instructions and the applicable plumbing code.
4. Inspect at 6 to 12 months in service; replace only as needed.

PERFORMANCE

Flow, Level U	27.9 GPM [105.70 L/min] , unrestricted
Flow, Level C	10.7 GPM [40.65 L/min], controlled
Opening	46 g of water; ASSE 1072 allows up to 120 g
Cycle life	2,500+ cycles (ASSE 1072)
Temperature	-40°F to 212°F [-40°C to 100°C]

ENGINEERING SPECIFICATION

Trap seal protection device shall be Green Drain™ model GD3, barrier type, for 3" floor drain outlets (pipe I.D. 2.68 to 3.19 in): rigid ABS housing, silicone compression gasket, and a normally closed one-piece silicone skirt that opens under water flow and recloses when flow stops. Device shall comply with the performance requirements of ASSE 1072, shall be listed by IAPMO R&T (cUPC, File 9301) for use under the Uniform Plumbing Code and the National Plumbing Code of Canada, and shall be permanently marked AF-GW (any floor, grease laden waste). Device is recognized as a trap seal protection method under the International Plumbing Code (IPC 1002.4.1.4) and may be used in lieu of a trap primer where permitted by the applicable plumbing code.

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WaterMark	WM-022837 (DN80), WMTS-522:2021
NSF/ANSI 2	Listed, food equipment
CE	Marked, ETA-18/0536
HACCP	Certified by HACCP International
Saber	TÜV Rheinland, 78636-007-25-2130858
Prop 65	Compliant, no warning label (CTT2007011136EN)



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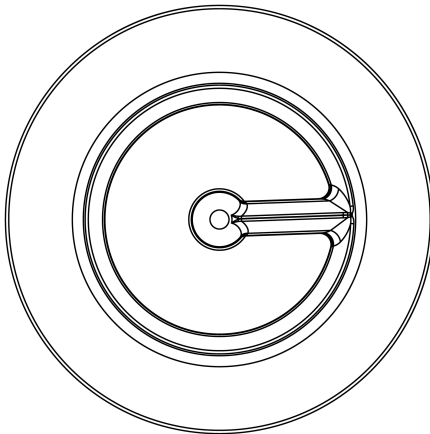
GD3/35 Waterless Trap Seal

Barrier-type trap seal protection device for 3" to 3.5" floor drain outlets

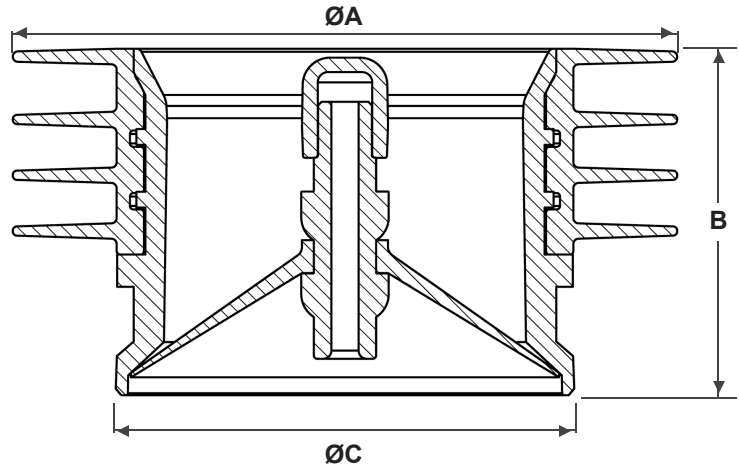
Fits pipe I.D. 3.03 to 3.74 in [77 to 95 mm]

TAG _____

Design and dimensional data (inches and [mm]) are subject to manufacturing tolerances and change without notice.



PLAN VIEW



SECTION A-A

DIMENSIONS inches [mm]

Fits pipe I.D.	3.03 to 3.74 [77 to 95]
ØA with gasket	3.800 [96.52]
B overall height	1.988 [50.50]
ØC housing at widest	2.625 [66.68]

INSTALLATION

1. Fits the drain outlet below the strainer. No tools needed for standard retrofits.
2. Recess **2" to 4" [50-100 mm]** into the outlet for maximum flow.
3. Install per the manufacturer's instructions and the applicable plumbing code.
4. Inspect at 6 to 12 months in service; replace only as needed.

PERFORMANCE

Flow, Level U	27.9 GPM [105.70 L/min] , unrestricted
Flow, Level C	10.7 GPM [40.65 L/min] , controlled
Cycle life	2,500+ cycles (ASSE 1072)
Temperature	-40°F to 212°F [-40°C to 100°C]

ENGINEERING SPECIFICATION

Trap seal protection device shall be Green Drain™ model GD3/35, barrier type, for 3" to 3.5" floor drain outlets (pipe I.D. 3.03 to 3.74 in): rigid ABS housing, silicone compression gasket, and a normally closed one-piece silicone skirt that opens under water flow and recloses when flow stops. Device shall comply with the performance requirements of ASSE 1072, shall be listed by IAPMO R&T (cUPC, File 9301) for use under the Uniform Plumbing Code and the National Plumbing Code of Canada, and shall be permanently marked AF-GW (any floor, grease laden waste). Device is recognized as a trap seal protection method under the International Plumbing Code (IPC 1002.4.1.4) and may be used in lieu of a trap primer where permitted by the applicable plumbing code.

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CERTIFICATIONS

cUPC	IAPMO R&T File 9301, ASSE 1072-2020, AF-GW
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NSF/ANSI 2	Listed, food equipment
CE	Marked, ETA-18/0536
HACCP	Certified by HACCP International
Prop 65	Compliant, no warning label



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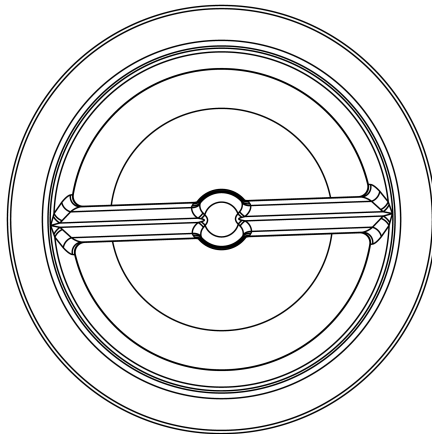
GD35 Waterless Trap Seal

Barrier-type trap seal protection device for 3.5" floor drain outlets

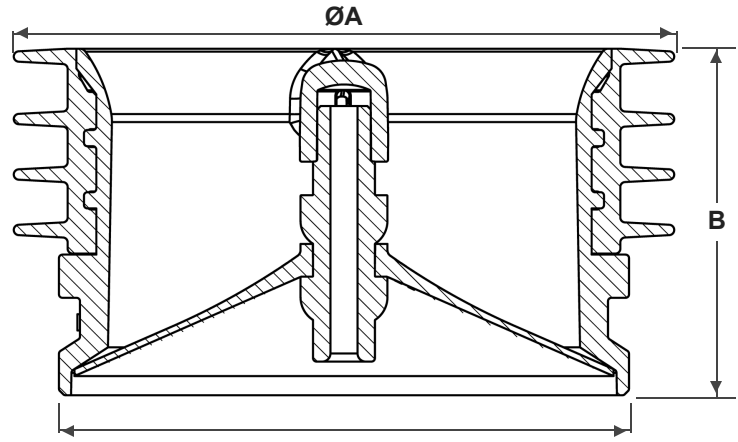
Fits pipe I.D. 3.50 to 3.74 in [89 to 95 mm]

TAG _____

Design and dimensional data (inches and [mm]) are subject to manufacturing tolerances and change without notice.



PLAN VIEW



SECTION A-A

DIMENSIONS inches [mm]

Fits pipe I.D.	3.50 to 3.74 [89 to 95]
ØA with gasket	3.837 [97.46]
B overall height	2.001 [50.82]
ØC housing at widest	3.291 [83.60]

INSTALLATION

1. Fits the drain outlet below the strainer. No tools needed for standard retrofits.
2. Recess **2" to 4" [50-100 mm]** into the outlet for maximum flow.
3. Install per the manufacturer's instructions and the applicable plumbing code.
4. Inspect at 6 to 12 months in service; replace only as needed.

PERFORMANCE

Flow, Level U	85.4 GPM [323.17 L/min] , unrestricted
Flow, Level C	32.1 GPM [121.60 L/min], controlled
Cycle life	2,500+ cycles (ASSE 1072)
Temperature	-40°F to 212°F [-40°C to 100°C]

ENGINEERING SPECIFICATION

Trap seal protection device shall be Green Drain™ model GD35, barrier type, for 3.5" floor drain outlets (pipe I.D. 3.50 to 3.74 in): rigid ABS housing, silicone compression gasket, and a normally closed one-piece silicone skirt that opens under water flow and recloses when flow stops. Device shall comply with the performance requirements of ASSE 1072, shall be listed by IAPMO R&T (cUPC, File 9301) for use under the Uniform Plumbing Code and the National Plumbing Code of Canada, and shall be permanently marked AF-GW (any floor, grease laden waste). Device is recognized as a trap seal protection method under the International Plumbing Code (IPC 1002.4.1.4) and may be used in lieu of a trap primer where permitted by the applicable plumbing code.

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CERTIFICATIONS

cUPC	IAPMO R&T File 9301, ASSE 1072-2020, AF-GW
WaterMark	WM-022837 (DN90), WMTS-522:2021
NSF/ANSI 2	Listed, food equipment
CE	Marked, ETA-18/0536
HACCP	Certified by HACCP International
Saber	TÜV Rheinland, 78636-007-25-2130858
Prop 65	Compliant, no warning label (CTT2007011136EN)



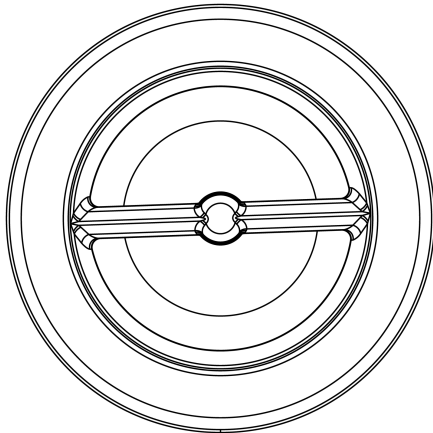
GD35/4 Waterless Trap Seal

Barrier-type trap seal protection device for 3.5" to 4" floor drain outlets

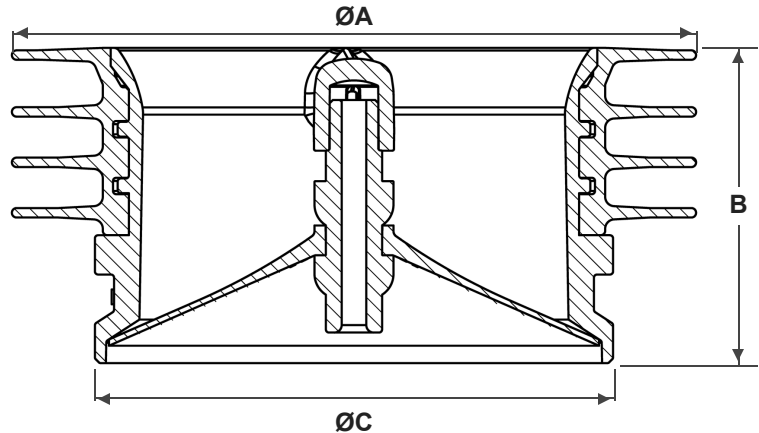
Fits pipe I.D. 3.50 to 4.25 in [89 to 108 mm]

TAG _____

Design and dimensional data (inches and [mm]) are subject to manufacturing tolerances and change without notice.



PLAN VIEW



SECTION A-A

DIMENSIONS inches [mm]

Fits pipe I.D.	3.50 to 4.25 [89 to 108]
ØA with gasket	4.331 [110.00]
B overall height	2.001 [50.82]
ØC housing at widest	3.291 [83.60]

INSTALLATION

1. Fits the drain outlet below the strainer. No tools needed for standard retrofits.
2. Recess **2" to 4" [50-100 mm]** into the outlet for maximum flow.
3. Install per the manufacturer's instructions and the applicable plumbing code.
4. Inspect at 6 to 12 months in service; replace only as needed.

PERFORMANCE

Flow, Level U	85.4 GPM [323.17 L/min] , unrestricted
Flow, Level C	32.1 GPM [121.60 L/min], controlled
Cycle life	2,500+ cycles (ASSE 1072)
Temperature	-40°F to 212°F [-40°C to 100°C]

ENGINEERING SPECIFICATION

Trap seal protection device shall be Green Drain™ model GD35/4, barrier type, for 3.5" to 4" floor drain outlets (pipe I.D. 3.50 to 4.25 in): rigid ABS housing, silicone compression gasket, and a normally closed one-piece silicone skirt that opens under water flow and recloses when flow stops. Device shall comply with the performance requirements of ASSE 1072, shall be listed by IAPMO R&T (cUPC, File 9301) for use under the Uniform Plumbing Code and the National Plumbing Code of Canada, and shall be permanently marked AF-GW (any floor, grease laden waste). Device is recognized as a trap seal protection method under the International Plumbing Code (IPC 1002.4.1.4) and may be used in lieu of a trap primer where permitted by the applicable plumbing code.

MasterFormat 22 13 19 Sanitary Waste Piping Specialties · 22 66 00
Chemical Waste Systems for Laboratory and Healthcare Facilities

CERTIFICATIONS

cUPC	IAPMO R&T File 9301, ASSE 1072-2020, AF-GW
WaterMark	WM-022837 (DN90), WMTS-522:2021
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HACCP	Certified by HACCP International
Prop 65	Compliant, no warning label



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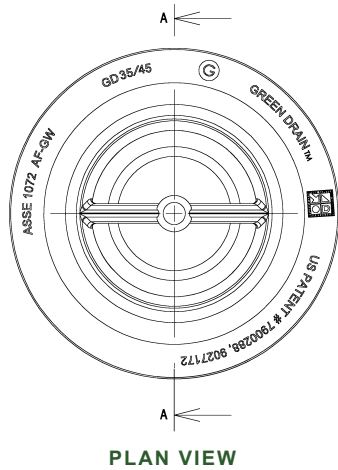
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GD35/45 Waterless Trap Seal

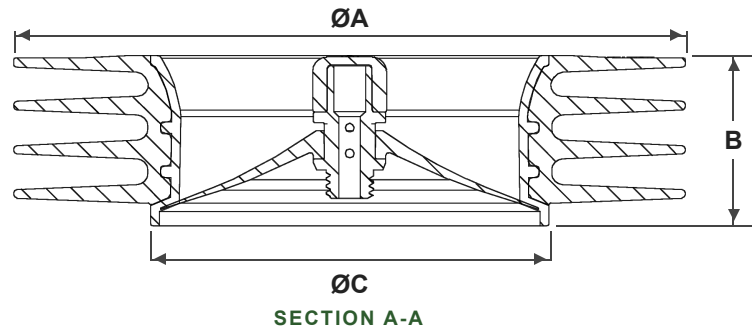
Barrier-type trap seal protection device for 3.5" to 4.5" floor drain outlets

TAG _____

Design and dimensional data (inches and [mm]) are subject to manufacturing tolerances and change without notice.



PLAN VIEW



SECTION A-A

DIMENSIONS inches [mm]

ØA with gasket	4.646 [118.00]
B overall height	1.166 [29.61]
ØC housing at widest	2.756 [70.00]

INSTALLATION

1. Fits the drain outlet below the strainer. No tools needed for standard retrofits.
2. Recess **2" to 4" [50-100 mm]** into the outlet for maximum flow.
3. Install per the manufacturer's instructions and the applicable plumbing code.
4. Inspect at 6 to 12 months in service; replace only as needed.

PERFORMANCE

Cycle life	2,500+ cycles (ASSE 1072)
Temperature	-40°F to 212°F [-40°C to 100°C]

ENGINEERING SPECIFICATION

Trap seal protection device shall be Green Drain™ model GD35/45, barrier type, for 3.5" to 4.5" floor drain outlets: rigid ABS housing, silicone compression gasket, and a normally closed one-piece silicone skirt that opens under water flow and recloses when flow stops. Device shall comply with the performance requirements of ASSE 1072, shall be listed by IAPMO R&T (cUPC, File 9301) for use under the Uniform Plumbing Code and the National Plumbing Code of Canada, and shall be permanently marked AF-GW (any floor, grease laden waste). Device is recognized as a trap seal protection method under the International Plumbing Code (IPC 1002.4.1.4) and may be used in lieu of a trap primer where permitted by the applicable plumbing code.

MasterFormat 22 13 19 Sanitary Waste Piping Specialties · 22 66 00 Chemical Waste Systems for Laboratory and Healthcare Facilities

CERTIFICATIONS

cUPC	IAPMO R&T File 9301, ASSE 1072-2020, AF-GW
WaterMark	WM-022837, WMTS-522:2021
NSF/ANSI 2	Listed, food equipment
CE	Marked, ETA-18/0536
HACCP	Certified by HACCP International
Prop 65	Compliant, no warning label



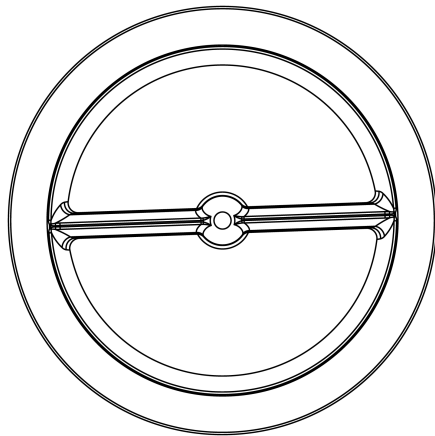
GD4 Waterless Trap Seal

Barrier-type trap seal protection device for 4" floor drain outlets

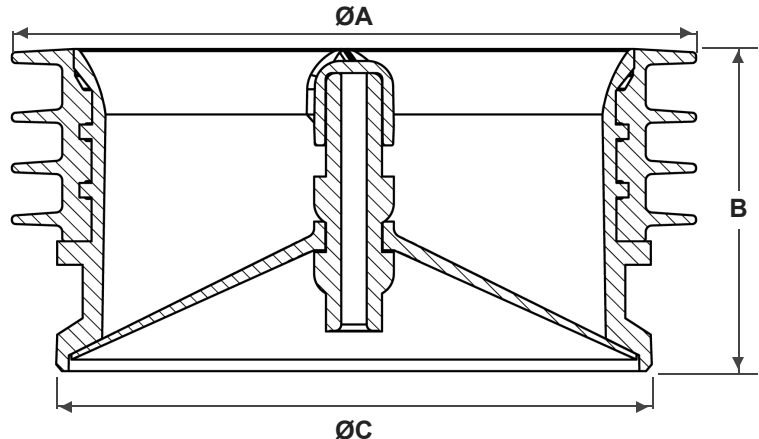
Fits pipe I.D. 3.90 to 4.21 in [99 to 107 mm]

TAG _____

Design and dimensional data (inches and [mm]) are subject to manufacturing tolerances and change without notice.



PLAN VIEW



SECTION A-A

DIMENSIONS inches [mm]

Fits pipe I.D.	3.90 to 4.21 [99 to 107]
ØA with gasket	4.274 [108.56]
B overall height	1.996 [50.70]
ØC housing at widest	3.680 [93.47]

INSTALLATION

1. Fits the drain outlet below the strainer. No tools needed for standard retrofits.
2. Recess **2" to 4" [50-100 mm]** into the outlet for maximum flow.
3. Install per the manufacturer's instructions and the applicable plumbing code.
4. Inspect at 6 to 12 months in service; replace only as needed.

PERFORMANCE

Flow, Level U	89.8+ GPM [340+ L/min] , unrestricted
Flow, Level C	57.7 GPM [218.25 L/min], controlled
ASSE 1072 test	Exceeds the 73 GPM [276 L/min] requirement for 10 min
Opening	53 g of water; ASSE 1072 allows up to 120 g
Cycle life	2,500+ cycles (ASSE 1072)
Temperature	-40°F to 212°F [-40°C to 100°C]

ENGINEERING SPECIFICATION

Trap seal protection device shall be Green Drain™ model GD4, barrier type, for 4" floor drain outlets (pipe I.D. 3.90 to 4.21 in): rigid ABS housing, silicone compression gasket, and a normally closed one-piece silicone skirt that opens under water flow and recloses when flow stops. Device shall comply with the performance requirements of ASSE 1072, shall be listed by IAPMO R&T (cUPC, File 9301) for use under the Uniform Plumbing Code and the National Plumbing Code of Canada, and shall be permanently marked AF-GW (any floor, grease laden waste). Device is recognized as a trap seal protection method under the International Plumbing Code (IPC 1002.4.1.4) and may be used in lieu of a trap primer where permitted by the applicable plumbing code.

MasterFormat 22 13 19 Sanitary Waste Piping Specialties · 22 66 00 Chemical Waste Systems for Laboratory and Healthcare Facilities

CERTIFICATIONS

cUPC	IAPMO R&T File 9301, ASSE 1072-2020, AF-GW
WaterMark	WM-022837 (DN100), WMTS-522:2021
NSF/ANSI 2	Listed, food equipment
CE	Marked, ETA-18/0536
HACCP	Certified by HACCP International
Saber	TÜV Rheinland, 78636-007-25-2130858
Prop 65	Compliant, no warning label (CTT2007011136EN)



cUPC Listed



NSF/ANSI 2



WaterMark Certified



CE Marked



HACCP Certified



Prop 65 Compliant

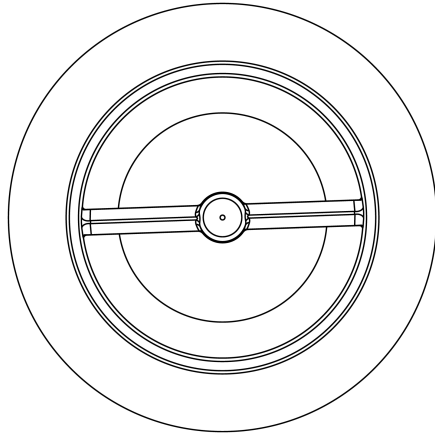
GD5 Waterless Trap Seal

Barrier-type trap seal protection device for 5" floor drain outlets

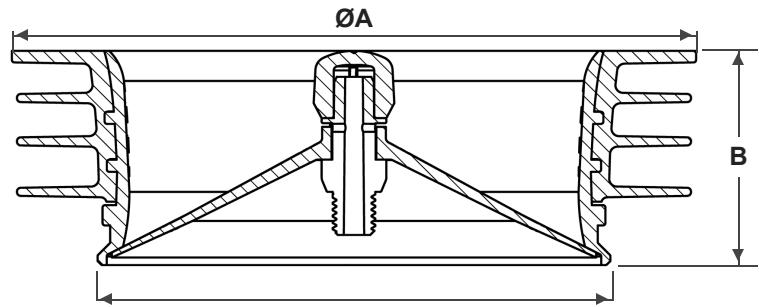
Fits pipe I.D. 4.92 to 5.24 in [125 to 133 mm]

TAG _____

Design and dimensional data (inches and [mm]) are subject to manufacturing tolerances and change without notice.



PLAN VIEW



SECTION A-A

DIMENSIONS inches [mm]

Fits pipe I.D.	4.92 to 5.24 [125 to 133]
ØA with gasket	5.310 [134.88]
B overall height	1.662 [42.21]
ØC housing at widest	3.961 [100.60]

INSTALLATION

1. Fits the drain outlet below the strainer. No tools needed for standard retrofits.
2. Recess **2" to 4" [50-100 mm]** into the outlet for maximum flow.
3. Install per the manufacturer's instructions and the applicable plumbing code.
4. Inspect at 6 to 12 months in service; replace only as needed.

PERFORMANCE

Flow, rated	103.3 GPM [391 L/min] , Green Drain rating
Cycle life	2,500+ cycles (ASSE 1072)
Temperature	-40°F to 212°F [-40°C to 100°C]

ENGINEERING SPECIFICATION

Trap seal protection device shall be Green Drain™ model GD5, barrier type, for 5" floor drain outlets (pipe I.D. 4.92 to 5.24 in): rigid ABS housing, silicone compression gasket, and a normally closed one-piece silicone skirt that opens under water flow and recloses when flow stops. Device shall comply with the performance requirements of ASSE 1072, shall be listed by IAPMO R&T (cUPC, File 9301) for use under the Uniform Plumbing Code and the National Plumbing Code of Canada, and shall be permanently marked AF-GW (any floor, grease laden waste). Device is recognized as a trap seal protection method under the International Plumbing Code (IPC 1002.4.1.4) and may be used in lieu of a trap primer where permitted by the applicable plumbing code.

MasterFormat 22 13 19 Sanitary Waste Piping Specialties · 22 66 00 Chemical Waste Systems for Laboratory and Healthcare Facilities

CERTIFICATIONS

cUPC	IAPMO R&T File 9301, ASSE 1072-2020, AF-GW
WaterMark	WM-022837 (DN125), WMTS-522:2021
NSF/ANSI 2	Listed, food equipment
CE	Marked, ETA-18/0536
HACCP	Certified by HACCP International
Saber	TÜV Rheinland, 78636-007-25-2130858
Prop 65	Compliant, no warning label (CTT2007011136EN)



cUPC Listed



NSF/ANSI 2



WaterMark Certified



CE Marked



HACCP Certified



Prop 65 Compliant

GREEN DRAIN INC.

20619 Torrence Chapel Rd, Suite 116-223, Cornelius, NC 28031
(800) 417-0089 · greendrains.com

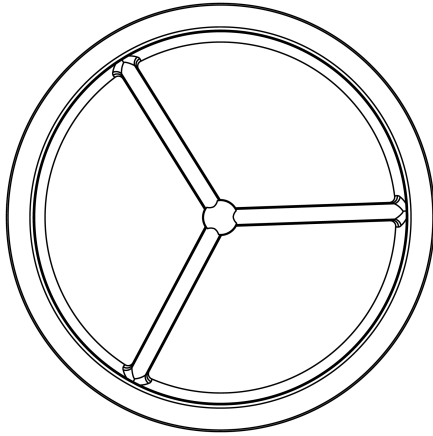
GD6 Waterless Trap Seal

Barrier-type trap seal protection device for 6" floor drain outlets

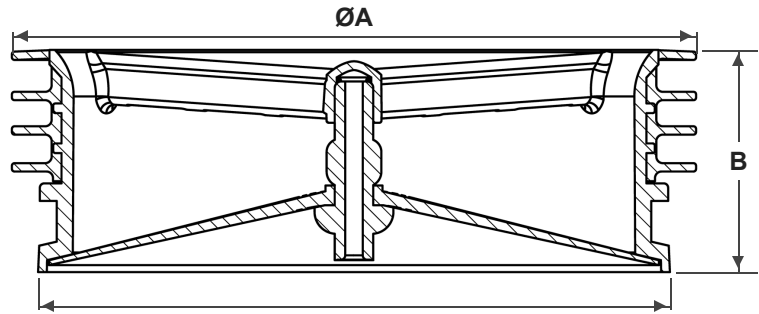
Fits pipe I.D. 5.87 to 6.18 in [149 to 157 mm]

TAG _____

Design and dimensional data (inches and [mm]) are subject to manufacturing tolerances and change without notice.



PLAN VIEW



SECTION A-A

DIMENSIONS inches [mm]

Fits pipe I.D.	5.87 to 6.18 [149 to 157]
ØA with gasket	6.260 [159.00]
B overall height	1.992 [50.60]
ØC housing at widest	5.677 [144.20]

INSTALLATION

1. Fits the drain outlet below the strainer. No tools needed for standard retrofits.
2. Recess **2" to 4" [50-100 mm]** into the outlet for maximum flow.
3. Install per the manufacturer's instructions and the applicable plumbing code.
4. Inspect at 6 to 12 months in service; replace only as needed.

PERFORMANCE

Flow, rated	145.3+ GPM [550+ L/min] , Green Drain rating
Cycle life	2,500+ cycles (ASSE 1072)
Temperature	-40°F to 212°F [-40°C to 100°C]

ENGINEERING SPECIFICATION

Trap seal protection device shall be Green Drain™ model GD6, barrier type, for 6" floor drain outlets (pipe I.D. 5.87 to 6.18 in): rigid ABS housing, silicone compression gasket, and a normally closed one-piece silicone skirt that opens under water flow and recloses when flow stops. Device shall comply with the performance requirements of ASSE 1072, shall be listed by IAPMO R&T (cUPC, File 9301) for use under the Uniform Plumbing Code and the National Plumbing Code of Canada, and shall be permanently marked AF-GW (any floor, grease laden waste). Device is recognized as a trap seal protection method under the International Plumbing Code (IPC 1002.4.1.4) and may be used in lieu of a trap primer where permitted by the applicable plumbing code.

MasterFormat 22 13 19 Sanitary Waste Piping Specialties · 22 66 00 Chemical Waste Systems for Laboratory and Healthcare Facilities

CERTIFICATIONS

cUPC	IAPMO R&T File 9301, ASSE 1072-2020, AF-GW
WaterMark	WM-022837 (DN150), WMTS-522:2021
NSF/ANSI 2	Listed, food equipment
CE	Marked, ETA-18/0536
HACCP	Certified by HACCP International
Saber	TÜV Rheinland, 78636-007-25-2130858
Prop 65	Compliant, no warning label (CTT2007011136EN)



cUPC Listed



NSF/ANSI 2



WaterMark Certified



CE Marked



HACCP Certified



Prop 65 Compliant

GREEN DRAIN INC.

20619 Torrence Chapel Rd, Suite 116-223, Cornelius, NC 28031
(800) 417-0089 · greendrains.com

SECTION 2

Certifications & Test Reports

Current certification documents and the independent laboratory reports behind them: IAPMO R&T cUPC (File 9301), WaterMark (WM-022837), NSF/ANSI 2, HACCP International, Proposition 65 material testing, Saber (Saudi Arabia), pathogen aerosol control, chemical and thermal resistance, odour tightness and mechanical resistance, ASSE 1072-2020 and WMTS-522:2021 testing, membrane material qualification, and the European Technical Assessment ETA-18/0536 (CE).



IAPMO R&T Laboratory



Tokyo Metropolitan Institute



ETA-Danmark



IAPMO RESEARCH AND TESTING, INC.

4755 E. Philadelphia Street, Ontario, CA 91761 • Phone (909) 472-4100 • Fax (909) 472-4244 • www.iapmort.org



CERTIFICATE OF LISTING



IAPMO Research and Testing, Inc. is a product certification body in which its product certification system includes inspection and testing of 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/or 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.

Issued To:

GREEN DRAIN INC

20619 TORRENCE CHAPEL RD, SUITE 116-223, CORNELIUS NC 28031, UNITED STATES

Product:

Floor Drain Trap Seal Protection Devices

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

Uniform Plumbing Code (UPC®)
National Plumbing Code of Canada

Products are certified to the following standard(s)

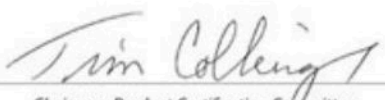
ASSE 1072-2020

File Number: 9301

Revised Date: July 20, 2026

Effective Date: July 2024

Void After: July 2029*


Chairman, Product Certification Committee




Chief Technical Service Officer

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

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



Issued To: GREEN DRAIN INC

File Number: 9301

Product: Floor Drain Trap Seal Protection Devices

Effective Date: July 2024

Revised Date: July 2026

Void After: July 2029

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

Identification:

Each device shall be permanently and legibly marked with the manufacturer's name or trademark, Any Floor, Grease Laden Waste (AF-GW). Product shall also bear the cUPC® certification mark. Packaging shall bear the manufacturer's name or trademark, model number or description of the device, AF-GW, 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 laboratory's compliance to the applicable requirements of ISO/IEC 17025.

IAPMO RESEARCH AND TESTING, INC.

CERTIFICATE OF LISTING

Models

Model Number	Description
GD-1.25	1 1/4" Drain
GD-1.5	1 1/2" Drain
GD-2	2" Drain
GD-3	3" Drain
GD-3.5	3.5" Drain
GD-4	4" Drain
GD-5	5" Drain
GD-6	6" Drain

IAPMO OCEANIA

7-11 Fullard Road, Narre Warren, Victoria 3805, Australia /info@iapmooceania.org



CERTIFICATE OF CONFORMITY

IAPMO Oceania hereby grants to:

Green Drain Inc

20619 Torrence Chapel Rd. Suite 116-223 Cornelius, NC. 28031 866-444-0212 United States

Email: sales@greendrains.com.au

the right to use the WaterMark in accordance with the ABCB Manual for the WaterMark Certification Scheme;-- Australian Standards; WaterMark Technical Specifications; and the Plumbing Code of Australia; only in respect of the certified product as described in the WaterMark Certificate of Conformity – Schedule of Certified Product (Refer also IAPMO Product Listing Directory). The Certificate is granted subject to the rules governing the WaterMark Certification Scheme and the Terms and Conditions of the Approved User Agreement and IAPMO Oceania's WaterMark Governance Rules.

Evaluated to:

WMTS-522:2021

Fixture and floor wastes- Supplementary protection devices

Manufacturer:

Refer to Licence Holder

Licence No.: WM-022837

First Certified: 30 Jul 2018

Certification Date: 18 Jun 2025

Expiry Date: 29 Jul 2026

David Viola

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 Oceania, 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 Oceania. This certificate can only be reproduced in its entirety. Any alteration of this certificate could be grounds for revocation of this certification.

"This certificate is issued by a JAS-ANZ accredited Conformity Assessment Body. The ABCB and JAS-ANZ do not in any way warrant, guarantee or represent that the product the subject of this Certificate conforms to the WaterMark Certification Scheme Rules, nor accepts any liability arising out of the use of the product. The ABCB disclaims to the extent permitted by law, all liability (including negligence) for claims of losses, expenses, damages and costs arising as a result of the use of the product(s) referred to in this Certificate."



WATERMARK CERTIFICATE OF CONFORMITY

SCHEDULE OF CERTIFIED PRODUCT



Certificate Holder
Green Drain Inc

A.B.N.:

20619 Torrence Chapel Rd. Suite 116-223 Cornelius, NC. 28031 866-444-0212 United States

Manufacturer

Refer to Licence Holder

Standard

WMTS-522:2021

Fixture and floor wastes- Supplementary protection devices

Licence No. WM-022837

Certification Date: 18 Jun 2025

Expiry Date: 29 Jul 2026

First Certified: 30 Jul 2018

Brand Name	Model Name	Model ID	Product Type	Product Description	Application	Nominal Size	Nominal Flow Rate	Material
Green Drain	N/A	GD125	Pipes and fittings	Floor drain barrier trap protection device to restrict sewer gases, insects, odours and evaporation from a trap seal.	Floor waste	DN32	Level C - 7.27 L/min Level U - 29.22 L/min	ABS + silicone
Green Drain	N/A	GD15	Pipes and fittings	Floor drain barrier trap protection device to restrict sewer gases, insects, odours and evaporation from a trap seal.	Floor waste	DN40	Level C - 24.21 L/min Level U - 51.55 L/min	ABS + silicone
Green Drain	N/A	GD2	Pipes and fittings	Floor drain barrier trap protection device to restrict sewer gases, insects, odours and evaporation from a trap seal.	Floor waste	DN50	Level C - 35.25 L/min Level U - 82.50 L/min	ABS + silicone
Green Drain	N/A	GD25	Pipes and fittings	Floor drain barrier trap protection device to restrict sewer gases, insects, odours and evaporation from a trap seal.	Floor waste	DN65	Level C - 33.80 L/min Level U - 72.50 L/min	ABS + silicone
Green Drain	N/A	GD3	Pipes and fittings	Floor drain barrier trap protection device to restrict sewer gases, insects, odours and evaporation from a trap seal.	Floor waste	DN80	Level C - 40.65 L/min Level U - 105.70 L/min	ABS + silicone
Green Drain	N/A	GD3/35	Pipes and fittings	Floor drain barrier trap protection device to restrict sewer gases, insects, odours and evaporation from a trap seal.	Floor waste	DN80	Level C - 40.65 L/min Level U - 105.70 L/min	ABS + silicone

Brand Name	Model Name	Model ID	Product Type	Product Description	Application	Nominal Size	Nominal Flow Rate	Material
Green Drain	N/A	GD35	Pipes and fittings	Floor drain barrier trap protection device to restrict sewer gases, insects, odours and evaporation from a trap seal.	Floor waste	DN90	Level C - 121.60 L/min Level U - 323.17 L/min	ABS + silicone
Green Drain	N/A	GD35/4	Pipes and fittings	Floor drain barrier trap protection device to restrict sewer gases, insects, odours and evaporation from a trap seal.	Floor waste	DN90	Level C - 121.60 L/min Level U - 323.17 L/min	ABS + silicone
Green Drain	N/A	GD4	Pipes and fittings	Floor drain barrier trap protection device to restrict sewer gases, insects, odours and evaporation from a trap seal.	Floor waste	DN100	Level C - 218.25 L/min Level U - >340.00 L/min	ABS + silicone

END RECORD

END RECORD



David Viola
Chief Executive Officer of the IAPMO Group

NSF International

789 N. Dixboro Road, Ann Arbor, MI 48105 USA

RECOGNIZES

Green Drain Inc.

Cornelius, NC

AS COMPLYING WITH NSF/ANSI 2 AND ALL APPLICABLE REQUIREMENTS.
PRODUCTS APPEARING IN THE NSF OFFICIAL LISTING ARE
AUTHORIZED TO BEAR THE NSF MARK.



ISO/IEC 17065
Product Certification Body
#0216

Certification Program
Accredited by the
American National
Standards Institute



Certification Program
Accredited by the
Standards Council
of Canada

This certificate is the property of NSF International and must be returned upon request. This certificate remains valid as long as this client has products in Listing for the referenced standards. For the most current and complete Listing information, please access NSF's website (www.nsf.org).

March 3, 2021

Certificate# C0571796 - 01

Amy Wirges

Senior Managing Director, Product Certification

NSF International

789 N. Dixboro Road, Ann Arbor, MI 48105 USA

RECOGNIZES

Green Drain Inc.

Facility: Guangdong Province, China

AS COMPLYING WITH NSF/ANSI 2 AND ALL APPLICABLE REQUIREMENTS.
PRODUCTS APPEARING IN THE NSF OFFICIAL LISTING ARE
AUTHORIZED TO BEAR THE NSF MARK.



ISO/IEC 17065
Product Certification Body
#0216

Certification Program
Accredited by the
American National
Standards Institute



Certification Program
Accredited by the
Standards Council
of Canada

This certificate is the property of NSF International and must be returned upon request. This certificate remains valid as long as this client has products in Listing for the referenced standards. For the most current and complete Listing information, please access NSF's website (www.nsf.org).

March 3, 2021

Certificate# C0571797 - 01

Amy Wirges

Senior Managing Director, Product Certification



OFFICIAL LISTING

NSF certifies that the products appearing on this Listing conform to the requirements of
NSF/ANSI 2 - Food Equipment

This is the Official Listing recorded on April 2, 2024.

Green Drain Inc.
20619 Torrence Chapel Road
Suite 116-223
Cornelius, NC 28031
866-444-0212

Facility: Guangdong Province, China

COMPONENTS:

Waterless Trap Seal for Floor Drain

GD1.25	GD15	GD2	GD3	GD35	GD4	GD5	GD6
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Note: Additions shall not be made to this document without prior evaluation and acceptance by NSF.

1 of 1

HACCP INTERNATIONAL

eliminate the hazard - reduce the risk



This is to certify that

Green Drain Inc

Floor Drain Trap Seals

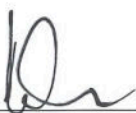
Food Zone Classification: SSZ (Splash or Spill Zone)

GD125
GD15
GD2
GD3
GD35
GD4
GD5
GD6

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
in accordance with the requirements of
HACCP International's Food Safety
Certification System


Issued by  Approved 

12 August 2026

Issue Date

5 September 2028

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.

HACCP INTERNATIONAL: No. 3 Ridgewest Building, 1 Ridge Street, North Sydney, NSW 2060, Australia
www.haccp-international.com



For certificate verification
and food zone
classification details

Certificate Number

I-PE-891-GRE-RG-05

Certification Statement I-PE-891-GRE-RG-05

Green Drain Inc

Certificate Expiry Date 5 September 2028

Floor Drain Trap Seals

Food Zone Classification: SSZ (Splash or Spill Zone)

GD125

GD15

GD2

GD3

GD35

GD4

GD5

GD6

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 6 September 2026

Certificate Issue Date 12 August 2026 *RM*

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 All Regions (Global) 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: *Justin Hume* Date: *8/12/26*

Test Report

Report No.: CTT2007011136EN

Page 1 of 1

Sample Received Date: Jul. 08, 2020
Completed Date: Jul. 10, 2020
Report Date: Jul. 10, 2020

The following merchandise was (were) submitted and identified on behalf of the applicant as:

Sample Name: Green Drain Trap Seal 2 inch/3 inch/3.5 inch/4 inch
Model No.: DS GD2/DS GD3/DS GD35/DS
P/O No.: GD4 DS-7433
Sample Quantity: 4
Manufacturer: Green Drain
Exported to: USA
Country of Origin: China

Test Result(s): Please refer to next page(s).

Test Requested and Conclusion(s):

No.	Standard and Requirement	Conclusion(s)
1	Client's requirements (Reference to California Proposition 65) - Lead	PASS
2	Client's requirements (Reference to California Proposition 65) - Phthalates	PASS

Signed for and on Behalf of CTT:


Hilary He
Technical Manager



This test report is issued by the company subject to its General Conditions of Services available on request and accessible at <http://www.cttlab.com/order/201905050400480820.pdf>. Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. Unless otherwise stated the results shown in this report refer only to the sample(s) received. Without prior written permission of the company, this test report cannot be reproduced, except in full. Any inquiry about this report, please raise from the date of receipt of the report within 30 days, overdue will not be accept. Items marked with "n" means they are not accredited by CNAS (if with CNAS logo), "s" means the item of subcontractor. All or Part of items of this report are not in the accredited scope of CMA and cannot be as domestic social impartiality proof data.

(JavaScript:void(0);)



شهادة مطابقة للمنتجات الخاضعة للوائح

Certificate of conformity for regulated products



We (.....TÜV Rheinland - DIN CERTCO).....) office number (.....00707.....) are bearing full responsibility for the product described below is conforms to the conformity assessment procedure Conduct the relevant technical regulations and standards which mentioned during this certificate.

Certificate Number	78636-007-25-2130858	Issue Date	13/10/2025	Expire Date	13/10/2026
Certificate Type	Product Conformity Certificate (COC)	Commercial Registration No	7040470895 / 7040470895		
Establishment Address	8530 Alquraa,Nada District, 12464 Riyadh				
Product and Manufacturer Data					
Model type	GD		Trade Mark	Green Drain	
Product Name	Green Drain				

Test Report

QDF25-0049810-01

Date: 2025-06-25

Client Name: GREEN DRAIN

Client Address: Birk Centerpark 40, 7400 Herning

Sample Name: Green Drain Waterless trap seal (GD3)

Sample Batch No.: /

Production Date: /

Manufacturer: Green Drain

Above information and sample(s) was/were submitted and certified by the client, SGS quoted the information with no responsibility as to the accuracy, adequacy and/or completeness.

Date of Sample Received: 2025-06-17

Testing Period: 2025-06-17 ~ 2025-06-23

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).



SGS Approved Signatory

SGS-CSTC Standards Technical Services (Qingdao) Co., Ltd.

Page 1 of 2

Scan to see the report



QDF25-0049810-01

Verification:
check.sgsonline.com.cn



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Test Report

QDF25-0049810-01

Date: 2025-06-25

Sample Description:

Sample No.	SGS Sample ID	Description
1	QDF25-0049810-0001	solid

Test Result(s):

Test Requested: Cover the top of a PVC pipe with an inner diameter of 75mm with a sealing cap and insert a trap seal(GD3) at the bottom as the test group. Only cover the top but without the trap seal at the bottom as the control group. Place both groups into a pair of 1 m³ air chambers respectively. Spray MS2 bacteriophage aerosol into the air chambers and use a small fan to blow air toward the bottom of the PVC pipe. After a 10-minute exposure, disinfect the outer surfaces and transfer them to a biosafety cabinet. Collect the internal gas in the pipe, and test the content of MS2 bacteriophage. The test was repeated for three rounds.

Test Method: Laboratory Method

Test organism(s)	Repeated Test Round	Bacteriophage content (Unit: PFU)		Virus Retention Rate (%)	Average Rate (%)
		Test Group	Control Group		
MS2 (ATCC 15597-B1)	1 st	<5	7.25×10 ⁴	>99.9	>99.9
	2 nd	<5	6.20×10 ⁴	>99.9	
	3 rd	<5	1.80×10 ⁴	>99.9	

Note:

- Test chamber volume: 1 m³
- Exposure time: 10 mins
- Virus Retention Rate (%) = (Bacteriophage content of control group - Bacteriophage content of test group) / Bacteriophage content of control group × 100%

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*** End ***

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Page 2 of 2



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t (86-532) 68999888 sgs.china@sgs.com

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Green Drain Product Test Report

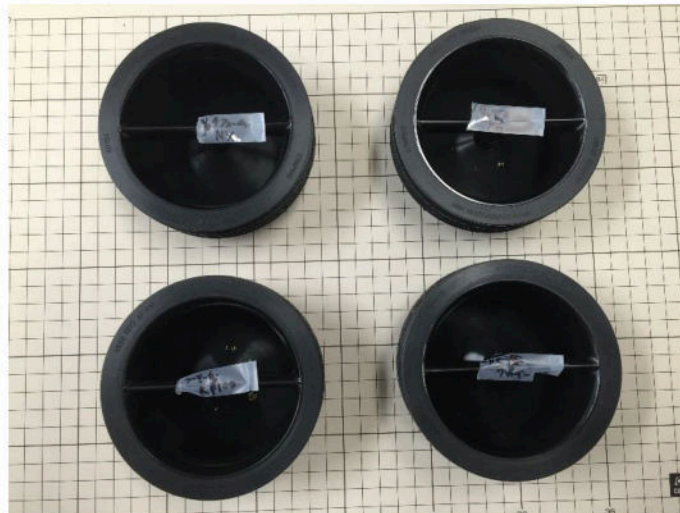
Test House: Tokyo Metropolitan Industrial Technology Research Institute

Testing Method and Results

1. Chemical Resistance Test

Method: Soak Green Drains in four different detergents commonly used by Ikari for 24 hours at 23 degree Celsius (23 ± 2 degree Celsius , humidity $50 \pm 5\%$)

- 1) Rich Foam NX (alkaline cleaner: dilution rate 5 times)
- 2) Rich Foam MF (sodium hypochlorite, alkaline cleaner: dilution rate 5 times)
- 3) Bleaker KT100 (fungicide, alkaline cleaner: dilution rate Undiluted)
- 4) Yudegama Cleaner (acidic cleaner: dilution rate 3 times)



Test Result

All test samples were rinsed with clean water and dried with paper towels then left for 24 hours for natural dry before inspection.

Mass Change Ratio (weight): +0.21%

Visual Inspection: No change in color nor shape. No sign of corrosion

Tactile Impression: No change

Harness Measurement (silicon skirt): No change

2. Thermal Shock Test

Method: Keep Green Drains in thermostat chambers at temperature peak -10 degree Celsius to 100 degree Celsius (process repeated for five times: MIL-STD-202G)



Test Result

Visual Inspection: No change in color nor shape. No sign of corrosion

Tactile Impression: No change

Harness Measurement (silicon skirt): No change

TEST REPORT

TYPE TEST (TT)

REPORT NO.:
226049



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Page: 1 of 9
Date: 6 March 2024
Init.: JMOC/ARP/MRI
Appendices: 1

Applicant:	Green Drain Europe ApS Birk Centerpark 40 7400 Herning Denmark	Contact person: Keld Rindom Email: kr@greendrains.eu
Product:	Odour traps, Green Drain models No. GD 1.25, GD 15, GD 2, GD 4, GD 6	
Manufacturing and sampling site:	Green Drains Inc. 15275 Collier Blvd., Suite 201-262 Naples, FL 34119 USA	
Samples:	Information about manufacturing site and sampling site was provided by the applicant. Sampling was carried out by the applicant, and the samples were received by DTI on 19 January 2024.	
Test period:	1 February - 4 March 2024	
Test site:	Danish Technological Institute, VA Testing and Inspection (DTI) Kongsvang Allé 29 DK-8000 Aarhus C, Denmark	
Test method:	EAD 180020-00-0704:2018 - Waterless odour trap for floor drains	
Result:	The requirements of the test methods mentioned above were met.	
Remark:	Reduced test programme compared to the test method.	
Terms:	Accredited testing was carried out in compliance with international requirements (EN ISO/IEC 17025:2017) and in compliance with Danish Technological Institute's General Terms and Conditions regarding Commissioned Work Accepted by Danish Technological Institute. The test results apply to the tested products only. This test report may be reproduced in extract only if the Laboratory has approved the extract in writing.	
Signature:	 Jesper Mondrup Christensen Consultant	 Allan R. Pedersen Product Manager



DIGITALLY SIGNED DOCUMENT

6 March 2024

DANISH TECHNOLOGICAL INSTITUTE



DANAK

Test Reg. No. 300

Danish Technological Institute	Test outline	Page: 2 of 9
		Report No.: 226049

Test methods and requirements in accordance with: EAD 180020-00-0704	Test site	Table No./ Appendix No.	Requirements met		Accredited		Sub- contractor Accredita- tion No.
			Yes	No	Yes	No	
Identification of the tested components and general information	DTI	Table 1					
2.2.2 Air/Odour tightness	DTI	Table 2	X		X		
2.2.3 Self-cleaning ability	-	Table 3	N/A				
2.2.4 Effectiveness	DTI	Tables 4-5	X		X		
2.2.5 Mechanical resistance to air pressure	DTI	Table 6	X		X		
2.2.6 Heat resistance - thermal behaviour	DTI	Table 7	X		X		
2.2.7 Pull-out resistance from floor drain	DTI	Table 8	X		X		
7 Photos and marking	DTI	Tables 9-10					
Installation manual	-	Appendix 1					

Table 1

Identification of the tested components and general information

Item id.	Photo	Model/Article No.	Dimension	Mounting diameter
1		Green Drain GD 1.25	DN40	Ø31-36 mm
2		Green Drain GD 15	DN40	Ø37-45 mm
3		Green Drain GD 2	DN50	Ø46-55 mm
4		Green Drain GD 4	DN100	Ø95-104 mm
5		Green Drain GD 6	DN150	Ø145-155 mm
6		Drain Purus	-	-
7		Drain Blücher	-	-
8		Pipe	DN40 ID Ø35.5 mm	-
9		Pipe	DN40 ID Ø40.5 mm (socket)	-

Item	Sample	Test pressure	Test duration	Pressure reading after test	Requirements met	
Id.	No.	Pa	min	Pa	Yes	No
1	1	200	15	200	X	
2	1	200	15	200	X	
3	1	200	15	200	X	
4	1	200	15	200	X	
5	1	200	15	200	X	

Table 5									
2.2.4 – Effectiveness 2.2.4.2 – Water through the grating									
Item	Sample	Mounting position, depth from end	Head of water	Test duration	Measured flow	Required flow	Requirement met		
Id.	No.	mm	mm	min.	l/s	l/s	Yes	No	
1 8	1 -	100	20	10	0.17	-	-	-	
2 10	1 -	100	20	10	0.41	-	-	-	
3 10	1 -	100	20	10	0.88	0.85	X	-	
4 11	1 -	100	20	10	2.91	2.60	X	-	
5 12	1 -	100	20	10	3.42	-	-	-	
Test equipment: 84315, 270-A-2298									

2.2.5 – Mechanical resistance to air pressure

Test equipment: 270-A-1783, 270-A-2228

2.2.6 – Heat resistance – thermal behavior

There shall be no deformation or change in surface texture that may impair the fitness for use of the gully.

Test equipment: 270-A-2500, 270-A-2265

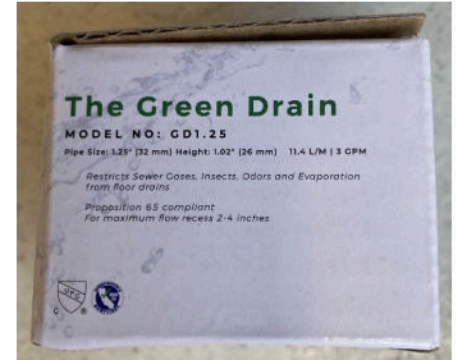
2.2.7 – Pull-out resistance from floor drain

Test equipment: 84315, 270-A-2298

Table 9

Photos

Id. 1



Id. 2



Id. 3



Photos

Id. 4



Id. 5

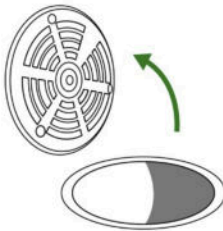


Danish Technological Institute	Test results	Page: 9 of 9
		Report No.: 226049

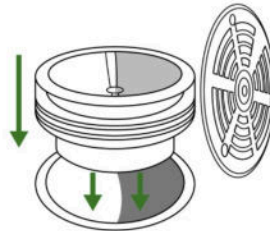
Table 10
7 - Marking
Marking of item id. 1: GREEN DRAIN™ GD-1.25 ASSE 1072 AF-GW USA & FOREIGN PATENT 7900288, 9027172 UPC (logo) Packing: Green Drain™ Waterless Trap Seal for Floor Drains GD1.25 The Green Drain MODEL NO: GD1.25 Pipe size: 1.25" (32 mm) Height: 1.02" (26 mm) 11.4 L/M I 3 GPM Restricts Sewer Gases, Insects, Odors and Evaporation from floor drains Proposition 65 compliant For maximum flow recess 2-4 inches Marking of item id. 2: GREEN DRAIN™ GD15 ASSE 1072 AF-GW USA & FOREIGN PATENT 7900288, 9027172 NSF (logo), UPC (logo) Packing: Green Drain™ Waterless Trap Seal for Floor Drains GD15 The Green Drain MODEL NO: GD15 Pipe Size: 1.5" (38 mm) Height: 1 1/8" (28 mm) 23 L/M I 6 GPM Restricts Sewer Gases, Insects, Odors and Evaporation from floor drains Proposition 65 compliant For maximum flow recess 2-4 inches Marking of item id. 3: GREEN DRAIN™ GD2 ASSE 1072 AF-GW USA & FOREIGN PATENT 7900288, 9027172 NSF (logo), W Water Mark (logo), UPC (logo) Packing: Green Drain™ Waterless Trap Seal for Floor Drains GD2 The Green Drain MODEL NO: GD2 Pipe Size: 2" (50-58 mm) Height: 1.3" (33 mm) 45 L/M I 12 GPM Restricts Sewer Gases, Insects, Odors and Evaporation from floor drains Proposition 65 compliant For maximum flow recess 2-4 inches Marking of item id. 4: GREEN DRAIN™ GD4 ASSE 1072 AF-GW USA & FOREIGN PATENT 7900288, 9027172 NSF (logo), W Water Mark (logo), UPC (logo), CE (logo) Packing: Green Drain™ Waterless Trap Seal for Floor Drains GD4 The Green Drain MODEL NO: GD4 Pipe Size: 4" (102-110 mm) Height: 2" (51 mm) 276.3 L/M I 73 GPM Restricts Sewer Gases, Insects, Odors and Evaporation from floor drains Proposition 65 compliant For maximum flow recess 2-4 inches Marking of item id. 5: GREEN DRAIN™ GD6 ASSE 1072 AF-GW USA & FOREIGN PATENT 7900288, 9027172 UPC (logo) Packing: Green Drain™ Waterless Trap Seal for Floor Drains GD6 The Green Drain MODEL NO: GD6 Pipe Size: 6" (150-156 mm) Height: 2" (51 mm) Restricts Sewer Gases, Insects, Odors and Evaporation from floor drains Proposition 65 compliant For maximum flow recess 2-4 inches

How to Install a Green Drain

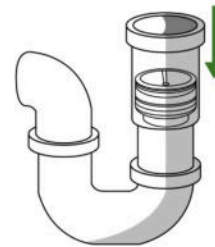
1 Remove Grate



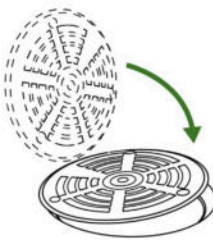
2 Insert Green Drain™



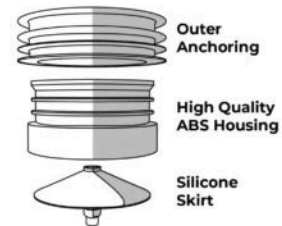
3 Recess 2" to 4" Into The Physical Pipe



4 Close Grate



5 Fasten Screws



Test Report

REPORT NO:
957187



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Page 1 of 4
Initials: SCL/UHI
Order no.: 957187
Appendices: 2

Customer: Contact: Keld Rindom
Company: GREEN DRAIN EUROPE
Address: Birk Centervej 40
Town: DK-7400 Herning

Material: The product tested is a waterless odour trap for floor drains, produced by "Green Drain". 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 type GD2, GD3, GD35, GD4 and GD5. The products itself was labeled with:

- GD2: 50-58 mm from GREEN DRAIN™
- GD3: 75-85 mm from GREEN DRAIN™
- GD35: 89-100 mm from GREEN DRAIN™
- GD4: 102-110 mm from GREEN DRAIN™
- GD5: 120-135 mm from GREEN DRAIN™

Purpose and scope: The test was completed with the aim to get an European Technical Assessment (ETA) of the waterless odour trap for floor drains. The products was send for testing in accordance with the Danish VA PG 2.4330-01, see also <http://www.etadanmark.dk/da/va/hvordan-godkendes-produktet>

Test implementation, results and conclusion in appendix 1. Pictures from the test in appendix 2

Place: Date 09.12.2020, Danish Technological Institute, Taastrup, Pipe Centre

Signatur: Ulrik Hindsberger
Centre Manager



Appendix 1: Test implementation, results and conclusion

Test implementation

The test was carried out at the Pipe Centre, Danish Technological Institute, Taastrup, Denmark in September 2016 and May 2018.

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.
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. Testing was carried out by performing temperature test according to DS/EN 1253-1 section 5.5.1, for 100 hours (only GD2-model) and then test with a water flow according to EN 1253-1, Section 5.4.2.
4. The extraction of the floor drain trap seal protection devices. The for types was mounted in two different types of gullies in order to assess the extraction power of the products.

Results

The results from the test. There are some pictures from the test in appendix 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), see results in the table below:

Type	Pressure (Pa)
GD2, 50-58 mm	661
GD3, 75-85 mm	660
GD35, 89-100 mm	502
GD4, 102-120 mm	>400
GD5, 120-135 mm	610

In turn, the floor drain trap seal protection device coped with less than 20 Pa negative pressure (suction) from the drain installation. Additionally, the floor drain trap seal protection device opens completely in conjunction with major deposits etc. to pass through.

Testing of self-cleaning ability

Self-cleaning ability of the trial after the temperature cycle test was satisfactory, since no bullets were retained.

Testing of the water flow

After the temperature cycling for 100 hours for the GD2-model was finished the flow of water through the floor drain trap seal protection device was measured, see table below:



Type	Flow measured (l/s)	Flow (l/s) in EN 1253-1	Result
GD2, 50-58 mm	0.85	0.8	OK
GD3, 75-85 mm	1.5	0.8	OK
GD35, 89-100 mm	2.3	0.8-1.4	OK
GD4, 102-110 mm	1.4	0.8-1.4	OK
GD5, 120-135 mm	4.0	2.8-4.0	OK

All the results are OK according to EN 1253-1.

The extraction of the floor drain trap

All types were tested in to different kind of gullies for buildings - one of PP and one of stainless steel. The extraction power was more than 5 kN for all four types in both the stainless steel and the PP gullies.

Conclusion

The conclusion of the tests of the product Green Drain™, type GD2, GD3, GD35, GD4 and GD5I 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 the Danish Standard DS 432:4th edition, 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
- The floor drain trap seal protection device meets the requirements for the self-cleaning ability
- In terms of ensuring the extraction, 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 be placed again if it moves up.

SIZE			CAPACITY
MODEL NO.	Ø (mm)	HEIGHT (mm)	L/min.
GD2.....	50-58.....	51.....	45,4
GD3.....	75-85.....	51.....	128,7
GD35.....	89-100.....	51.....	193,0
GD4.....	102-110.....	51.....	276,3
GD5.....	120-135.....	51.....	276,3

Ø = external pipe diameter



Appendix 2: Pictures from the test





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: 1554-25004

R&T File No.: 9301

Report Issued: November 03, 2025

Project No.: 47075

Client: Green Drain, Inc.
20619 Torrence Chapel Rd
Cornelius, NC 28031

Contact: Justin Granath

Source of Samples: The samples were shipped to IAPMO R&T Lab from Green Drain, Inc., and received in good condition on August 25, 2025.

Date of Testing: October 1, 2025 to October 28, 2025.

Sample Description: Trap Seal Device
Models: GD-4 (4")

Scope of Testing: The purpose of the testing is to determine if the samples tested of the trap seal device meets the applicable requirements of ASSE 1072-2020, entitled, "Barrier Type Trap Seal Protection Devices for Floor Drains", less section 3.9.

Conclusion: The samples tested of the Trap Seal Device, of the model listed above, from Green Drain, Inc. **COMPLIES** with the applicable requirements of ASSE 1072-2020, less section 3.9.

Evaluated/Tested by,

Reviewed by,

Luis Herrera, Test Technician I

Sean Vuu, P.E., Manager, Specialty Projects

All testing and sample preparation for this report was performed under the continuous, direct supervision of IAPMO R&T Lab, unless otherwise stated. The statement of compliance is based on the test results compared to the standard specifications without considering measurement uncertainty. 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. If presented with a copy of a Test Report without the IAPMO R&T Lab watermark background, contact IAPMO R&T Lab for verification. Any use of the IAPMO R&T Lab name for the sale or advertisement of the tested material, product or service is prohibited absent the advance written consent of IAPMO R&T Lab.

Primary Standards: ASSE 1072-2020, Sections Tested / Evaluated:

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

Test Results: all tests and evaluations were conducted per the written procedures specified in the standard. Sections not listed were considered not applicable to the subject product.

ASSE 1072-2020:

1 General - FOLLOWED

1.2 Scope - FOLLOWED

1.2.1 Description

The device consists of a membrane that allows the flow of drainage to enter the plumbing drainage system. The device closes when there is no flow.

1.2.2 Size

The device shall be sized according to the nominal pipe size of the device it installs into, except for the 3-1/2 in. device which installs into the inside of a floor drain fitting that complies with ASME A112.6.3. Sizes shall include 1½ NPS through 6 NPS.

1.2.3 Flow Capacity

The device permits the flow of drainage as stipulated in Table 1 of this standard. If the floor drain size is not listed, perform an interpolation between the values in Table 1 to determine the appropriate flow rate.

Table 1: Minimum Flow Rate through Floor Drains

Floor Drain Size	Flow Rate	
	GPM	L/min
NPS		
4	73.0	276.3

1.3 Construction - FOLLOWED

1.3.1 Function

The device opens when there is a maximum of 113.4 g of water on the inlet to the device, and shall close when there is no flow of wastewater into the device.

1.3.2 Evaporation

The device shall pass 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 passageway in the device does not have any sharp edges or protrusions which will obstruct the flow to the drainage system or result in stoppages. The device does not obstruct access to the interior of the floor drain trap.

1.3.4 Connections within Floor Drain

The device connects within a floor drain that conforms to ASME A112.6.3. Connections shall be in accordance with local authorities having jurisdiction.

2 Test Specimens and Test Laboratory - FOLLOWED

2.1 Samples Submitted - FOLLOWED

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

2.2 Samples Tested - FOLLOWED

Tests shall be performed in the order listed in the standard.

The testing agency shall select 4 samples of each model and size for testing:

- 1 sample for the testing specified in Sections 3.1 through 3.7;
- 1 sample for repeat testing to Section 3.2;
- 1 sample for the testing specified in Section 3.8;
- 1 sample for the testing specified in Section 3.9.

2.3 Rejection - FOLLOWED

Failure of 1 sample shall result in a rejection of that model.

3.0 Performance Requirements and Compliance Testing – FOLLOWED

Laboratories shall have the option to increase the size of the base opening for water flow on the test assembly for floor drains 4 NPS and larger in diameter. If the water overflows the sides of the test assembly without the device for the larger floor drain sizes, the walls of the test assembly shall be raised to prevent the overflow of water. Once the overflow rate has been established, the sides shall be increased 1.0 inch in height for tests with the installation of the device.

When assembling the device on test into the assembly, the top of the device shall be inserted no more than 6 in. from the top of the drain fitting.

3.1 Flow Test - COMPLIED

3.1.1 Purpose

The purpose of this test is to determine if the device allows the required flow of water through a floor drain.

3.1.2 Procedure

- a) For testing sizes 1-1/2 NPS through 3 NPS,
 - 1. Laboratories shall have the option to increase the size of the base opening for water flow on the test assembly for floor drains 4 NPS and larger.
 - 2. Install a floor drain that conforms to ASME A112.6.3 to an assembly measuring 24.0 ± 1.0 in. by 24.0 ± 1.0 in. by 1.0 in. deep at the drain pan edge with the floor sloped to the floor drain as shown within Figure 1.
- b) For testing sizes 4 NPS through 6 NPS, install a floor drain that conforms to ASME A112.6.3 to an assembly measuring 48.0 ± 1 in. by 48.0 ± 1 in. by 1.0 in. deep at the drain pan edge with the floor sloped to the floor drain as shown within Figure 1.
- c) Install the device to the floor drain according to the manufacturer's instructions. The floor drain grate shall be permitted to be removed to achieve the required flow through the floor drain.
- d) Turn on the water and adjust the flow rate for the given floor drain size to the flow rate in Table 1, or the manufacturer's maximum rated flow per the specification sheet, whichever is greater. Continue running the water for a period of 10 minutes.

3.1.3 Criteria

Any water overflowing the open side of the pan shall result in rejection of the device.

Findings: the device was able to maintain 73 gpm for 10-minute period without water level surpassing 1" mark.

3.2 Evaporation Test - COMPLIED

3.2.1 Purpose

The purpose of this test is to determine if the device will reduce evaporation from the trap seal of the floor drain.

3.2.2 Procedure

- a) The test equipment for this test shall include three vessels identified as cylinders A, B, and C in Figure 2. The vessels shall be the nominal pipe diameter of the device being tested, and have a minimum height of 4.0 in. and a maximum height of 12.0 in.
- b) Attach the device to the top of vessels B and C, sealing the connection between the device and the vessel.
- c) Insert a 1/8 inch diameter wire [(the wire shall have a maximum length of 3.0 in.] through the opening of the device in cylinder B.
- d) Fill the three vessels with 2.0 in. of water. For the vessels with the device, manually open the device to fill the vessel with water so that there is no water on the membrane of the device.
- e) Weigh each vessel independently with a scale having an accuracy of 0.01 pounds (4.5 g) to establish the initial weight. Record the initial weight of each vessel.

NOTE: The wire should be configured to allow the membrane to close around the wire. This may require the wire to be bent into place.

- f) Place the vessels in a controlled environment that is maintained at $100.0^{\circ}\text{F} \pm 5.0^{\circ}\text{F}$ with 20 percent (± 10 percent) relative humidity.
- g) Continue the test for $96 \text{ hours} \pm 1 \text{ hour}$, record the weight of each vessel at the end of the test.
- h) Establish the total weight loss of the contents of each vessel by subtracting the weight of each vessel just before placement into the controlled environment for this test from the final weight of the vessel.

3.2.3 Criteria

A weight loss in cylinder B greater than 10 percent of the weight loss in cylinder A shall result in rejection of the device. A weight loss in Cylinder C greater than 1% of the weight loss in cylinder A shall result in rejection of the device.

Findings:

- Weight loss in cylinder A: 249.05 g
- Weight loss in cylinder B: 9.34 g (3.75% of cylinder A)
- Weight loss in cylinder C: 2.11 g (0.85% of cylinder A).

3.3 Trap Seal Interference Test – COMPLIED

The purpose of this test is to determine if the device extends into the trap seal of a floor drain.

3.3.2 Procedure

Install the device in a floor drain with an integral trap conforming to ASME A112.6.3 in accordance with the device manufacturer's installation instructions. Fill the floor drain trap. With the device fully open, no portion of the device shall extend into the water seal of the floor drain trap.

3.3.3 Criteria

Any protrusion of the device into the floor drain trap seal shall result in rejection of the device.

Findings: No portion of device was observed to extend into the water seal of the floor drain trap.

3.4 Opening Test - COMPLIED

3.4.1 Purpose

The purpose of this test is to determine that the device will open when there is a minimal amount of water on the membrane of the device.

3.4.2 Procedure

Install the device in a floor drain conforming to ASME A112.6.3 in accordance with the device manufacturer's installation instructions. Add water to the top of the membrane at a rate of 29.57 mL/min or less. Record the quantity of water required to open the device and allow the passage of water.

3.4.3 Criteria

Failure of the device to open with 113.4 g or less of water shall result in rejection of the device.

Findings: device opened at 32 g of water, which meets the 113.4 g or less criteria.

3.5 Dirt and Debris Test - COMPLIED

3.5.1 Purpose

The purpose of this test is to determine the ability of the device to seal after sand passes through the device.

3.5.2 Procedure

- a. Install a floor drain that conforms to ASME A112.6.3 in an assembly as shown in Figure 1.
- b. Install the device in the floor drain in accordance with the device manufacturer's instructions.
- c. Remove the top grate of the floor drain. Using sand that passes through a Number 50 sieve (300 μ m) but not through a Number 120 sieve (125 μ m) as designated by ASTM E11, pour 1.0 oz (28.3 g) of sand in the center of the device.
- d. Reinstall the grate on the floor drain. Pour 5.0 gallons (18.9 L) of water in the center of the floor drain at a rate of 1.0 GPM (3.8 L/min) with the grate in place.
- e. Subject the device to the evaporation test specified in Section 3.2.

3.5.3 Criteria

Failure to pass the evaporation test specified in Section 3.2 shall result in rejection of the device.

Finding:

- Weight loss in cylinder A: 266.66 g
- Weight loss in cylinder B: 9.76 g (3.66% of cylinder A)
- Weight loss in cylinder C: 2.03 g (0.76% of cylinder A).

3.6 Floor Wax Test - COMPLIED

3.6.1 Purpose

The purpose of this test is to determine if the device will open after being exposed to common liquid floor waxes.

3.6.2 Procedure

- a) Install a floor drain that conforms to ASME A112.6.3 in an assembly as shown in Figure 1. Install the device in the floor drain in accordance with the device manufacturer's instructions.
- b) Remove the top grate of the floor drain. Pour 8 fl oz (237 mL) of an acrylic co-polymer floor finish with $\geq 20\%$ solids into the center of the device. Reinstall the top grate on the floor drain. Maintain the test assembly undisturbed at ambient room temperature until the wax is dry.

NOTE: an example acceptable floor finish is Diversey Signature Ultra High Speed floor finish.

- c) Flow cold water at a rate of 1.0 GPM into the floor drain and observe the opening of the device.
- d) Once the device opens, discontinue flowing water into the floor drain. If water overflows the top grate of the floor drain, discontinue flowing water into the floor drain.

3.6.3 Criteria

Failure to open before the water overflows the floor drain top grate shall result in rejection of the device.

Findings: the device opened before water overflowed the floor drain top gate after being exposed to liquid wax. No indications of potential overflowing at 1 gpm was observed.

3.7 Grease Test - COMPLIED

3.7.1 Purpose

The purpose of this test is to determine if the device will open after receiving the discharge of grease-laden waste.

3.7.2 Procedure

- a) Install a floor drain that conforms to ASME A112.6.3 in an assembly as shown in Figure 1. Install the device in the floor drain in accordance with the device manufacturer's instructions.
- b) Prepare a test media consisting of a ratio of 5.0 gallons of water with a pH of 6.0 to 8.0 and 1.0 pound (454 g) of lard having a specific gravity of 0.875 ± 0.05 . The media shall be at a temperature of $155.0\text{ }^{\circ}\text{F} \pm 5.0\text{ }^{\circ}\text{F}$.
- c) With the floor drain cover grate in place, pour the 5.0 gallons of the media in the center of the grate. Maintain the test assembly undisturbed at ambient room temperature for a period of four (4) hours.
- d) Flow cold water at a rate of 1.0 GPM into the floor drain and observe the opening of the device.
- e) Once the device opens, discontinue flowing water into the floor drain. If water overflows the top grate of the floor drain, discontinue pouring water into the floor drain.

3.7.3 Criteria

Failure to open before the water overflows the floor drain top grate shall result in rejection of the device.

Findings: the device opened before water overflowed the floor drain top gate after being exposed to grease. No indications of potential overflowing at 1 gpm was observed.

3.8 Life Cycle Test - COMPLIED

3.8.1 Purpose

The purpose of this test is to evaluate the performance of the device after cycling 2,500 times.

3.8.2 Procedure

- a) Install the device in a floor drain conforming to ASME A112.6.3 in accordance with the device manufacturer's installation instructions.
- b) Subject the device to 1250 cycles of hot water. A cycle shall constitute running water at a rate of 1.0 GPM (3.8 L/m) and a temperature of $140.0\text{ }^{\circ}\text{F} \pm 5.0\text{ }^{\circ}\text{F}$ for a period of 10 seconds, then turn the water off for a period of 50 seconds.
- c) At the completion of the hot water cycle test, subject the device to 1250 cycles of water at room temperature. A cycle shall constitute running water at a temperature of $70.0\text{ }^{\circ}\text{F} \pm 5.0\text{ }^{\circ}\text{F}$ for a period of 10 seconds, then turn the water off for a period of 50 seconds.
- d) Three days (72 hours) after the completion of the cycle testing, subject the device to the evaporation test specified in Section 3.2 of this standard.

3.8.3 Criteria

Failure to pass the test in Section 3.2 shall result in rejection of the device.

Findings:

- Weight loss in cylinder A: 253.63 g
- Weight loss in cylinder B: 9.26 g (3.65% of cylinder A)
- Weight loss in cylinder C: 2.00 g (0.79% of cylinder A).

3.9 Physical Test of Membrane Material – NO TESTING CONDUCTED (per instruction).

4.0 Detailed Requirements

4.1 Materials - FOLLOWED

Materials used in devices shall conform to the requirements of this standard. Metal alloys in contact with potable water shall not exceed 8% lead content.

Finding: the trap seal does not contain any metal.

4.2 Identification and Markings – COMPLIED

4.2.1 Marking of Devices - COMPLIED

Each device shall have the following information marked on it by a permanent method where it will be visible:

- a) Name of manufacturer or trademark - "Green Drain"
- b) AF-GW - "ASSE 1072-AF-GW"

4.2.2 Packaging – QUESTIONABLE.

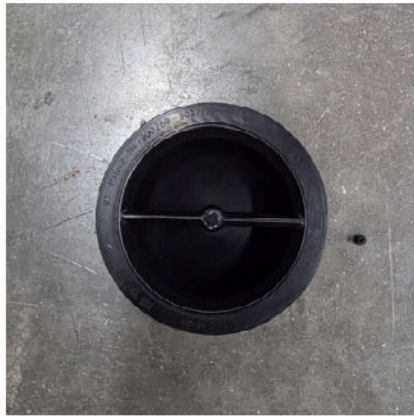
Each device shall have the following information marked (molded) on the packaging:

- a) Name of manufacturer or trademark. - "Green Drain"
- b) Model number or description of the device. - "GD4"
- c) AF-GW – **NONE**.
- d) Floor drain size. - "Pipe Size: 4" (102-110 mm), Height: 2" (51 mm)"

4.3 Installation Instructions – COMPLIED

Instructions for installation of the device shall be on the packaging or packaged with the device. Instructions may include an illustrative calculation providing information on evaporation rates to purchasers or installers.

Findings: an installation guide was provided with packing as well as a QR code was found that redirects to a website and video of installation instruction for device.



Test report

1. Document Control

Company Name	Green Drain	Address	3 Macquarie Street
Client Name	Monica Maidana	City/Suburb	Parramatta
E-mail	monica@greendrains.com.au	State/Province	NSW
Phone	0403 819 401	Postal/Zip Code	2150
ABN	21 625 767 455	Country	Australia

Report Number: GDR-26-3-REP-1-GD2-1

Document prepared by:

George Beresford BEng (Mech)
PROVE Test Engineer

Date: 17/07/2026

Document reviewed by:

Terry Nguyen BEng (Mech)
PROVE Authorised Signatory

Date: 20/07/2026

Issue Date	Release Number	Description
20/07/2026	01	Initial Issue

2. General

Test Item:	Floor Drain Trap
Standard tested to:	WMTS 522:2021
Sample(s) selected by:	Green Drain
Mode of delivery:	Courier
Date Received:	16/07/2026



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NATA Accredited Laboratory, Accreditation no: 18640
Accredited for compliance with ISO/IEC 17025 – Testing

This test report shall not be reproduced except in full, without the written approval of the laboratory

3. Referenced Documents

The following documents have been referenced for testing and reporting.

Standard	Standard Name
WMTS-522:2021	Fixture and floor wastes – supplementary protection devices
ASSE 1072:2007	Barrier Type Floor Drain Trap Seal Protection Devices

4. Specimens Description

Sample ID	Sample description
GD2	Brand: Green Drain Model: DN50 Floor Trap Code: GD2 Condition: New – unopened packaging



Figure 4.1 – Floor Trap

- Legend: Text featured in *Italics* corresponds to customer supplied information which may affect the validity of results.
- Sample provided by customer. All results of testing in this report relate only to the items tested and listed above.
- Results presented in this report are as indicated by calibrated equipment during testing. No interpretations or allowances will be made where a test result falls within uncertainty levels of equipment used.



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5. Performance Requirements – WMTS-522:2021

Section 9 of WMTS-522:2021 – Performance requirements and test methods

Test Reference Standard:	Clause 9.1 of WMTS-522:2021 – Opening Test		
Test Method Standard:	Section 3.4 of ASSE 1072:2007		
Date of Test:	17/07/2026		
Test Officer:	George Beresford		
Sample ID	Requirement	Result	Conformity to Clause 9.1 of WMTS-522:2021
GD2	Install device in a floor drain conforming to ANSE/ASME A112.6.3 in accordance with device manufacturer's installation instructions. Position a water dropper 25.4mm above the centre of the device. Add water to the membrane 1 drop at a time. Record the quantity of water required to open the device. Device shall open with a maximum of 120g of water and close when there is no flow of water	Water required to open membrane: 20g	Conforms



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Test report

1. Document Control

Company Name	Green Drain	Address	3 Macquarie Street
Client Name	Monica Maidana	City/Suburb	Parramatta
E-mail	monica@greendrains.com.au	State/Province	NSW
Phone	0403 819 401	Postal/Zip Code	2150
ABN	21 625 767 455	Country	Australia

Report Number: GDR-26-3-REP-2-GD3-1

Document prepared by:

George Beresford BEng (Mech)
PROVE Test Engineer

Date: 17/07/2026

Document reviewed by:

Terry Nguyen BEng (Mech)
PROVE Authorised Signatory

Date: 20/07/2026

Issue Date	Release Number	Description
20/07/2026	01	Initial Issue

2. General

Test Item:	Floor Drain Trap
Standard tested to:	WMTS 522:2021
Sample(s) selected by:	Green Drain
Mode of delivery:	Courier
Date Received:	16/07/2026



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Accredited for compliance with ISO/IEC 17025 – Testing

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3. Referenced Documents

The following documents have been referenced for testing and reporting.

Standard	Standard Name
WMTS-522:2021	Fixture and floor wastes – supplementary protection devices
ASSE 1072:2007	Barrier Type Floor Drain Trap Seal Protection Devices

4. Specimens Description

Sample ID	Sample description
GD3	Brand: Green Drain
	Model: DN80 floor Trap
	Code: GD3
	Condition: New – unopened packaging



Figure 4.1 – Floor Trap

- Legend: Text featured in *Italics* corresponds to customer supplied information which may affect the validity of results.
- Sample provided by customer. All results of testing in this report relate only to the items tested and listed above.
- Results presented in this report are as indicated by calibrated equipment during testing. No interpretations or allowances will be made where a test result falls within uncertainty levels of equipment used.



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5. Performance Requirements – WMTS-522:2021

Section 9 of WMTS-522:2021 – Performance requirements and test methods

Test Reference Standard:	Clause 9.1 of WMTS-522:2021 – Opening Test		
Test Method Standard:	Section 3.4 of ASSE 1072:2007		
Date of Test:	17/07/2026		
Test Officer:	George Beresford		
Sample ID	Requirement	Result	Conformity to Clause 9.1 of WMTS-522:2021
GD3	Install device in a floor drain conforming to ANSE/ASME A112.6.3 in accordance with device manufacturer's installation instructions. Position a water dropper 25.4mm above the centre of the device. Add water to the membrane 1 drop at a time. Record the quantity of water required to open the device. Device shall open with a maximum of 120g of water and close when there is no flow of water	Water Required to open membrane:46g	Conforms



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NATA Accredited Laboratory, Accreditation no: 18640
Accredited for compliance with ISO/IEC 17025 – Testing

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Test report

1. Document Control

Company Name	Green Drain	Address	3 Macquarie Street
Client Name	Monica Maidana	City/Suburb	Parramatta
E-mail	monica@greendrains.com.au	State/Province	NSW
Phone	0403 819 401	Postal/Zip Code	2150
ABN	21 625 767 455	Country	Australia

Report Number: GDR-26-3-REP-3-GD4-1

Document prepared by:

George Beresford BEng (Mech)
PROVE Test Engineer

Date: 17/07/2026

Document reviewed by:

Terry Nguyen BEng (Mech)
PROVE Authorised Signatory

Date: 20/07/2026

Issue Date	Release Number	Description
20/07/2026	01	Initial Issue

2. General

Test Item:	Floor Drain Trap
Standard tested to:	WMTS 522:2021
Sample(s) selected by:	Green Drain
Mode of delivery:	Courier
Date Received:	16/07/2026



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3. Referenced Documents

The following documents have been referenced for testing and reporting.

Standard	Standard Name
WMTS-522:2021	Fixture and floor wastes – supplementary protection devices
ASSE 1072:2007	Barrier Type Floor Drain Trap Seal Protection Devices

4. Specimens Description

Sample ID	Sample description
GD4	Brand: Green Drain Model: DN100 Floor Trap Code: GD4 Condition: New – unopened packaging



Figure 4.1 – Floor Trap

- Legend: Text featured in *Italics* corresponds to customer supplied information which may affect the validity of results.
- Sample provided by customer. All results of testing in this report relate only to the items tested and listed above.
- Results presented in this report are as indicated by calibrated equipment during testing. No interpretations or allowances will be made where a test result falls within uncertainty levels of equipment used.



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5. Performance Requirements – WMTS-522:2021

Section 9 of WMTS-522:2021 – Performance requirements and test methods

Test Reference Standard:	Clause 9.1 of WMTS-522:2021 – Opening Test		
Test Method Standard:	Section 3.4 of ASSE 1072:2007		
Date of Test:	17/07/2026		
Test Officer:	George Beresford		
Sample ID	Requirement	Result	Conformity to Clause 9.1 of WMTS-522:2021
GD4	Install device in a floor drain conforming to ANSE/ASME A112.6.3 in accordance with device manufacturer's installation instructions. Position a water dropper 25.4mm above the centre of the device. Add water to the membrane 1 drop at a time. Record the quantity of water required to open the device. Device shall open with a maximum of 120g of water and close when there is no flow of water.	Water required to open membrane: 53g	Conforms



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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.



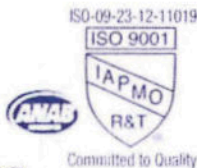
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Committed to Quality

TEST REPORT

PAGE 1 OF 2

FOR: IAPMO R & T Lab
5001 E. Philadelphia Street
Ontario, CA 91761
Tel: (909) 472-4143 / Fax: (909) 472-4195
ATTN: Mr. Sean B. Vuu

LWR NO: 19741-S1 DATE: June 22, 2015

BACKGROUND:

The client submitted one (1) membrane material for testing to ASSE 1072-07 (Table 3). The sample arrived on 05/21/2015 via customer-supplied courier. Visual inspection was performed on 05/21/2015 and no product defects were noted. Testing in accordance with customer-supplied P.O. # 7339 received on 04/02/2015. The following additional information is provided:

CRT order entry log date: 05/21/2015 / **Report due date:** 06/22/2015

Sample ID: Membrane material (silicone) IAPMO Project # 24772

PREPARATION:

Set-up, machining & die punching – CRT methods / ASTM methods

Chemical set-up & preparation – ASSE 1072-07 / CRT methods

Conditioning – ASTM D 618-13, 40 hours in a standard laboratory environment

SPECIFICATION:

ASSE 1072-07(2013) Barrier Type Floor Drain Trap Seal Protection Devices (Section 3.9 / Table-3 Physical Test of Membrane Material):

TEST PROCEDURES:

Ozone resistance – ASTM D 1149-07, ASTM D 518 (method-B) at 104°F (2°F) for 100h at 150pphm

Water absorption – ASTM D 471-98 for 48 h 158°F (2°F)

Chemical Reagents – ASTM D 543-06 (72h at 74 ± 3.6°F)

Weather-o-meter (500h) – ASTM G 154-12a (4h Q.U.V. @ 60°C / 4h Condensation @ 50°C), U.V.B. 313 Bulbs

Tensile strength & Elongation – ASTM D 412-06a (Dumb-bell-C)

Split Tear strength – ASTM D 624-00 (Die-C)

Non-brittle Brittleness – ASTM D 2137-11 (3 minutes at -40°F (2°F))

TEST RESULTS:

The results of testing are shown in the attached data table.

CONCLUSION:

Based on the results obtained, this sample meets the minimum requirements for section 3.9 as described in ASSE 1072-07 (Table-3)...**Complies**

Specimen Retain Bin: BB (30 day hold only unless otherwise specified)

CRT LABORATORIES, INC.

IAPMO R&T  ISO 9001:2008 Certified – Registered / ISO-IEC 17025:2005 Accredited

Ken A. Le Jeune
CEO / Laboratory Director

Raul Gonzalez
Laboratory Technician

The liability of CRT Labs with respect to the work and report covered herein, shall in no event exceed the amount of the invoice. We recommend consideration that correlative data be generated by other laboratories in matters of litigation. CRT will retain tested samples for 30 days after testing is completed, unless other arrangements are agreed upon at the time order is placed. This report, whether in whole or in part, any logo, etc., in advertising or publicity must have CRT's written permission prior to use. This test data is for exclusive use of the client to who it is addressed and results apply only to sample(s) tested and does not apply to similar or identical products. This report shall not be reproduced except in full. Testing performed in accordance with ISO 17025. Form Q.S. 43 (10/05)



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Authorised and notified according
to Article 29 of the Regulation (EU)
No 305/2011 of the European
Parliament and of the Council of 9
March 2011

MEMBER OF EOTA



European Technical Assessment ETA-18/0536 of 2025/07/15

I General Part

Technical Assessment Body issuing the ETA and designated according to Article 29 of the Regulation (EU) No 305/2011: ETA-Danmark A/S

Trade name of the construction product:

GREEN DRAIN GD125, GD15, GD2, GD3, GD35, GD4, GD5 and GD6

Product family to which the above construction product belongs:

Waterless odour trap for floor drains

Manufacturer:

Green Drain Europe
Birk Centerpark 40
DK-7400 Herning
Tel. +45 5353 9595
www.greendrains.eu

Manufacturing plant:

Green Drains Inc.
20619 TORRENCE CHAPEL RD
SUITE 116-223
CORNELIUS, NC 28031 ,
United States

This European Technical Assessment contains:

6 pages including 1 annex which form an integral part of the document

This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of:

European Assessment Document (EAD) no. EAD 180020-00-0704 for Waterless odour trap for floor drains

This version replaces:

The ETA with the same number issued on 2019-12-13

Translations of this European Technical Assessment in other languages shall fully correspond to the original issued document and should be identified as such.

Communication of this European Technical Assessment, including transmission by electronic means, shall be in full (except the confidential Annexes referred to above). However, partial reproduction may be made, with the written consent of the issuing Technical Assessment Body. Any partial reproduction has to be identified as such.

II SPECIFIC PART OF THE EUROPEAN TECHNICAL ASSESSMENT

EAD nor by the technical Assessment Body issuing an ETA based on this EAD, but are to be regarded only as a means for expressing the expected economically reasonable working life of the product.

1 Technical description of product

Green Drain Europe's GREEN DRAIN Waterless odour trap for floor drains.

The waterless odour trap for floor drains consists of a UV-resistant ABS frame, a silicone based sealing collar/membrane and various flexible sealing flanges.

Green Drain Europe's GREEN DRAIN Waterless odour trap for floor drains, comes in 8 different sizes GD125 (32-35mm), GD15 (36-44mm), GD2 (50-58mm), GD3 (75-85mm), GD35 (89-100mm) and GD4 (102-110mm), GD5 (120-135mm) and GD6 (148-155).

The different sizes have different drainage capacities. Heights vary from 26mm to 51 mm to fit into the floor drains.

The waterless floor drain prevents the passage of odours and gasses from the sewerage system without the use of a water-filled trap.

See annex A for drawings

2 Specification of the intended use in accordance with the applicable European Assessment Document (hereinafter EAD)

The waterless odour trap for floor drains allows the drainage water to flow to the sewerage system while preventing passage of odour and gasses from the sewerage system.

The provisions made in this European Technical Assessment are based on an assumed working life of the waterless odor trap of at least 25 years, when installed in the works.

When assessing the product, the intended use as foreseen by the manufacturer shall be taken into account. The real working life may be, in normal use conditions, considerably longer without major degradation affecting the basic requirements for works.

The indications given as to the working life of the construction product cannot be interpreted as a guarantee neither given by the product manufacturer or his representative nor by EOTA, when drafting this

3 Performance of the product and references to the methods used for its assessment

Characteristic	Assessment of characteristic
3.2 Safety in case of fire (BWR2)	
Reaction to fire	No performance assessed
3.3 Hygiene, health and the environment (BWR3)	
Air/Odour tightness	Odour tight 200pa
Self-cleaning ability	Selfcleaning.
Effectiveness	
Access for cleaning	Cleanable.
Water through the grating	GD125: >0,29 l/s. GD15: > 0,41 l/s GD2: >0,8 l/s GD3, GD35, GD4 and GD5: >1,4 l/s GD6: > 3,42 l/s
Heat Resistance – Thermal behavior	Class A.
Mechanical resistance at negative air pressure	Odour tight >400pa
Pull-out resistance from floor drain	GREEN DRAIN Waterless odour trap can withstand an extraction/pull-out force of, - GD125: 1,6kg - GD15: 6,2kg - GD2: 2,9kg - GD3: 4,6kg - GD35: 5,5kg - GD4: 3,2kg - GD5: 4,0kg - GD6: 4,8kg in both stainless-steel gullies and PP gullies.

4 Assessment and verification of constancy of performance (AVCP) system applied, with reference to its legal base

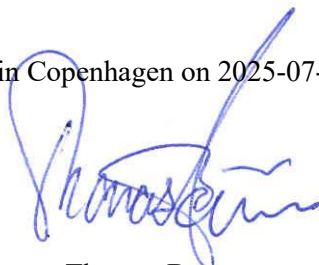
4.1 AVCP system

According to the decision 99/472/EC of the European Commission, the system(s) of assessment and verification of constancy of performance (see Annex V to Regulation (EU) No 305/2011) is 4.

5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited at ETA-Danmark prior to CE marking

Issued in Copenhagen on 2025-07-15 by



Thomas Bruun
Managing Director, ETA-Danmark

Annex A: Description of the product



Outer watertight membrane

Gully with trap

Flexible silicone membrane

GREEN DRAIN waterless odour trap for floor drains	Annex A of European Technical Assessment ETA-18/0536
Description of the product	



WATERLESS TRAP SEALS

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