

Membrane clamping outlets for single and multi-layer, torch on, liquid and monolithic

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Level of assurance needed to demonstrate NZ Building Code Compliance

Supporting documentation should include self-assessment and technical information by manufacturer



Aquaknight confirms that this minimum level of assurance has been met or exceeded by the following:

FlowLab

[FlowLAB Test Report - 124](#)



The following information has been provided by Aquaknight demonstrating how this product complies with the [Building Product Information Requirements](#).

Technical Statement

Product Class

CLASS 1

Product Description

For use with:

- Liquid Membrane
- Single-layer Membrane
- Multi-layer Membrane
- Torch-on Membrane
- Monolithic Membrane*

Engineered clamping range 0-12mm membrane thickness for multi-layer and torch-on

Stainless Steel Flat Lid • M6x25 machine screws for sound installations

Stainless Steel interlocking Clamp Ring

Over-molded custom machine nuts – cannot be ‘cranked out’ and will not yield over time

Clamping force over 7 tons – delivering peace of mind

*Consult your membrane supplier

Scope of use

LOCATION:

In all exposure zones as defined in NZS 3604:2011.

› For micro-climates, as defined in NZS 3604: 2011, contact Aquaknight for material selection information.

BUILDING:

In conjunction with a primary structure that complies with the NZ Building Code or where the designer has established that the existing structure is suitable for the intended building work.

In conjunction with a single or multi-layer, waterproof membrane up to 12mm in thickness.

› Subject to sufficient fall and outlets.

› Flow rates to be calculated in accordance with E1/AS1 or E1/VM1.

› Compatibility of materials must be considered in accordance with paragraph 4.1.2 of E1/AS1.

› Aquaknight Deck Drains must meet or exceed the flow rate requirements of the downpipes they are connected to.

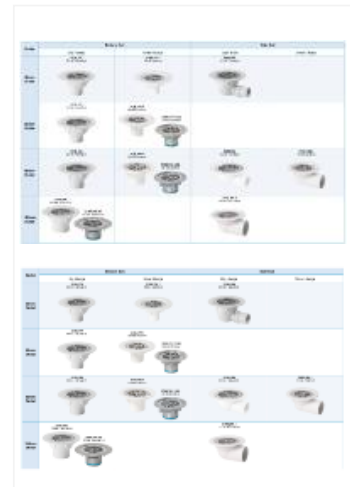
› For mastic asphalts and hot mix membranes, stainless steel outlets should be used.

New Zealand Building Code (NZBC)

The product will, if employed in accordance with the supplier's installation and maintenance requirements, assist with meeting the following provisions of the building code:

- **Clause B2 Durability:** Performance B2.3.1(b)

› Rigid injection uPVC heat stability tested in accordance with TPC Method, specific gravity tested in accordance with ASTM D792, impact strength tested in accordance with ASTM D256,



masterspec partner

Company Contact Details



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and deflection temperature tested in accordance with ASTM D648 [Thai Plastic and Chemicals Public Company Ltd, n.d.].

›Historic material performance of uPVC and stainless steel.

- **Clause E1 Surface water:** Performance E1.3.3, E1.3.3(a), E1.3.3(b), E1.3.3(c), E1.3.3(d), E1.3.3(e), E1.3.3(f)

›Flow rates calculated in accordance with E1/AS1 or E1/VM1.

›Flow rates tested in accordance with ANSI Z1034 [FlowLab, 17/10/2019; 22/01/2023; 23/01/2023; 31/01/2023].

›Rigid injection uPVC heat stability tested in accordance with TPC Method, specific gravity tested in accordance with ASTM D792, impact strength tested in accordance with ASTM D256, and deflection temperature tested in accordance with ASTM D648 [Thai Plastic and Chemicals Public Company Ltd, n.d.].

›Materials in accordance with E1/AS1.

- **Clause F2 Hazardous building materials:** Performance F2.3.1
›Manufactured materials are inert when supplied.

Evidence

The product meets the requirements set out in the following documents, or relevant parts of cited standards within the documents:

Aquaknight drains are compliant with the following:

- AS/NZS 3500.3 Plumbing and drainage: Stormwater drainage
- NZMRM CoPNZ Metal Roof and Wall Cladding Code of Practice
- RMBM CoP Waterproofing Membrane Association Reinforced Modified Bitumen Membrane Code of Practice
- Plumbers, Gasfitters, and Drainlayers Act 2006

Supporting Evidence

The product has and can make available the following additional evidence to support the above statements:



FlowLab
[FlowLab Test Report - 124](#)

Product Criteria

Design requirements

The Aquaknight Deck Drain is a hi-flow, uPVC or stainless-steel outlet with a stainless-steel clamping ring and polished stainless steel flat lid. The fittings have a clamping force suitable to seal all modern membrane installations.

Aquaknight Deck Drains are available with bottom or side exits and with 100 mm inlets and outlets of between 50 mm and 100 mm.

Refer to Aquaknight CAD details available from the website.

Installation requirements

Rebate the substrate to ensure the drain flange sits at least 1mm below the substrate level. The rebated area must be even, smooth, and free of debris. Place the Aquaknight outlet flange into the rebated hole. Pre-drill and install stainless steel screws into the substrate to secure the flange. Install the blue dust-cap. Apply adhesive over the flange, substrate and membrane. Once this has tacked off, lay down the single ply membrane. Using a heavy roller, apply pressure to the flange area. Roll the immediate area so all bubbles and air pockets are removed. With the rounded handle mark the inside edge where the blue dust cap meets the flange. Cut to the inner mark, which we will form into the outlet. Remove the dust cap. Heat the single-ply membrane. With a seam roller apply pressure and heat to form the TPO into the dropper. Check the edges with the seam probe. Heat and penny-roll any loose edges. Install the clamp ring using screws provided.

Maintenance requirements

Check the installation periodically, and after every major weather event to clear leaves & debris from accumulating around the outlet. Remove grime with warm water.

Refer to Aquaknight Industries Ltd. Membrane Drainage Maintenance Recommendations.

Warrantees

Date warranty valid: 20 years from proven date of purchase or dispatch from Aquaknight whichever is the earlier.

All enquiries relating to this warranty must (in the first instance) be directed to the place of purchase, the supplier or the installer.

Aquaknight warrants that: At the time of delivery to the merchant or site (where applicable) the Membrane Drainage Fitting will:

- be free from freight related defects
- be free from defects that may have arisen through defective factory workmanship or materials
- conform to the performance characteristics listed herein ('warranted condition').

Company Product Information

Environmental

Aquaknight has Declare. Please refer to Declare Certification.

Relationships



New Zealand Made

Building Product Information Requirements

Manufacturer

Legal Trading Name:

Aquaknight Industries Ltd

Business Email:

info@aquaknight.co.nz

Company Website:

www.aquaknight.co.nz

Contact Number/s:

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Product Identifier

VARIOUS PRODUCT CODES AS PER WEBSITE.

Warnings

This product has no warnings associated with it.



Date last validated: **24 March 2026**



Date last updated: **24 March 2026**

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