

## AQUAKNIGHT ROOF DRAINS

### PURPOSE

Aquaknight Industries supplies Aquaknight Roof Drains for use as outlets/or overflow drains in conjunction with sheet, torch on, hot mix or liquid applied waterproofing membranes in domestic and commercial applications.

### EXPLANATION

The Aquaknight Roof Drain is a hi-flow, uPVC or stainless-steel outlet with a stainless-steel clamping ring and stainless steel domed lid featuring extended leaf-guards. The fittings have a clamping force suitable to seal all modern membrane installations.

Aquaknight Roof Drains are available with bottom or side exits and with 100 to 225 mm inlets and outlets of between 50 mm and 225 mm.

Supplied accessories include overflow hats, overflow hat extensions and soffit trims.

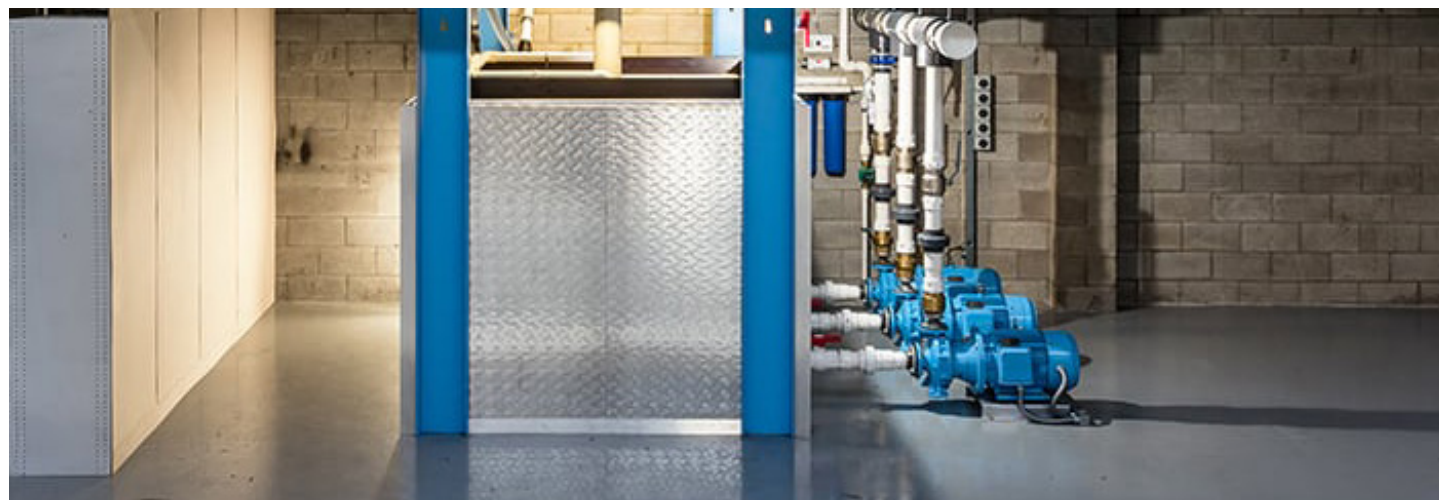


For further assistance please contact:

- ☎ 09 832 2214
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- 🌐 [aquaknight.co.nz](http://aquaknight.co.nz)

### SCOPE AND LIMITATIONS OF USE

Scope	Limitations
<b>Location</b> 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.
<b>Building</b> 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 8mm in thickness.	➤ Subject to sufficient fall and outlets. ➤ Flow rates to be calculated in accordance with E1/AS1 or E1/VM1. ➤ Compatability of materials must be considered in accordance with paragraph 4.1.2 of E1/AS1. ➤ Aquaknight Roof Drains must meet or exceed the flow rate requirements of the downpipes they are connected to. ➤ For mastic asphalts, torch on and hot mix membranes, stainless steel outlets should be used.



### USEFUL INFORMATION

For design, installation and maintenance information, refer to [aquaknight.co.nz](http://aquaknight.co.nz).

### OTHER CERTIFICATIONS HELD BY AQUAKNIGHT

- ISO 9001 certification [SGS, 05/02/2020].

## PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with all Aquaknight Industries' requirements, Aquaknight Roof Drains will comply with or contribute to compliance with the following performance claims:

N.Z. Building Code clauses		BASIS OF COMPLIANCE
	Compliance statement	Demonstrated by
<b>B2 Durability</b> B2.3.1 (b)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>➤ 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.].</li> <li>➤ Historic material performance of uPVC and stainless steel.</li> </ul>
<b>E1 Surface Water</b> E1.3.3	ACCEPTABLE SOLUTION E1/AS1, VERIFICATION METHOD E1/VM1 and ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>➤ Flow rates calculated in accordance with E1/AS1 or E1/VM1.</li> <li>➤ Flow rates tested in accordance with ANSI Z1034 [FlowLab, 19/01/2023; 27/01/2023; 31/01/2023; 09/02/2023; 23/02/2023; 25/02/2023].</li> <li>➤ 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.].</li> <li>➤ Materials in accordance with E1/AS1.</li> </ul>
<b>F2 Hazardous Materials</b> F2.3.1	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>➤ Manufactured materials are inert when supplied.</li> </ul>

Other performance statements	BASIS OF STATEMENT
	Demonstrated by
Aquaknight Roof Drain will not contaminate potable water	<ul style="list-style-type: none"> <li>➤ Stainless steel is not porous and therefore not conducive to mould development.</li> <li>➤ uPVC does not support the growth of mould.</li> </ul>

## SOURCES OF INFORMATION

- Aquaknight. [2017] *Roof drain*. <https://www.aquaknight.co.nz/roof-drain-2/>.
- Chemvin Plastics Ltd. [22/11/2013] *Technical Data Sheet*.
- SGS. [05/02/2020]. *ISO 9001*. Certificate NZ20/873752.
- FlowLab. [19/01/2023] Certificate number FL\_138.
- FlowLab. [27/01/2023] Certificate number FL\_127.
- FlowLab. [31/01/2023] Certificate number FL\_143.
- FlowLab. [09/02/2023] Certificate numbers FL\_140, FL\_139, FL\_128, FL\_144, FL\_137.
- FlowLab. [23/02/2023] Certificate numbers FL\_136, FL\_157.
- FlowLab. [25/02/2023] Certificate number FL\_142.

1. Where a standard is referenced it is to be read as amended by the acceptable solution or verification method as applicable. 2. Sources of information also include the Building Act 2004 and its regulations, including the Building Code (Schedule 1 of the Building Regulations 1992), Acceptable Solutions and Verification Methods, and relevant cited standards. 3. The product is not subject to a warning or ban under section 26 of the Building Act. 4. For overseas manufacturer details, where applicable, refer to the company that is the holder of this pass™. 5. The quality and assurance that the supplied products meet the performance claims stated in this pass™ are the responsibility of the company that is the holder of this pass™. 6. The availability of the information about the supplied products required to be disclosed under s14G(3) is the responsibility of the company that is the holder of this pass™.

Aquaknight Industries Ltd confirms that if Aquaknight Roof Drains are used in accordance with the requirements of this pass™ the product will comply with the NZ Building Code and other performance claims set out in this pass™ and the company has met all of its obligations under s14G(2) of the Building Act.

**Date of first issue:** 30/07/2019

**Date of current issue:** 17/01/2025

**NZBN:** 9429000113274

*Kevin Brunton*

Kevin Brunton, Technical Director, TBB confirms that the process used to prepare this pass™ on behalf of Aquaknight Industries Ltd has been undertaken in accordance with MBIE PTS guidelines and in accordance with the TBB pass™ process which is within the scope of TBB's ISO 9001 certification.

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