

Version: 1.0

Designated building product: Class 1

Declaration

Aquatherm NZ Ltd has provided this declaration to satisfy the provisions of Schedule 1(d) of the Building (Building Product Information Requirements) Regulations 2022.

Product/system

Name	Aquatherm Green
Line	The Aquatherm green pipe systems consist of Polypropylene random (PP-R[80] & PP-RP) pipes and fittings. The Aquatherm green pipe system is for use in Hot and Cold potable water services and hot water circulation systems.
Identifier	Aquatherm Green

Description

The Aquatherm green system:

- Is used in hot and cold potable water supplies and hot water circulating systems.
- Consists of Polypropylene random (PP-R [80] and PP-RP pipes and fittings with Zero lead brass used in threaded components
 - SDR 7.4 and 11 S are suitable for cold and non circulating hot water systems only
 - SDR 7.4, 9 and 11 MF are suitable for cold, ot and circulating systems
 - From sizes 16mm to 125mm in 4 meter lengths -160-250mm comes in 5.8 meter lengths

Scope of use

Aquatherm Green Pipe Systems can be used in:

- Residential and Commercial applications -Systems for the supply of hot and cold potable water, see Branz appraisal 539 (2023) For usage categories.
- The system has a 50 year durability making it suitable to be placed behind concrete and other permanent structures.

Conditions of use

Aquatherm Green pipe system must be installed as per the instructions in the Aquatherm GMBH Green pipe manual Edition 08. 2020 or later.

The system should not be used in systems with uncontrolled heat sources such as wetbacks or solar heating without adequate temperature control prior to connection to Aquatherm products.

Relevant building code clauses

B2	Durability	B2.3.1 (a)
F2	Hazardous building materials	F2.3.1
G10	Piped services	G10.3.1
G12	Water Supplies	G12.3.2, G12.3.7
H1	Energy efficiency	H1.3.3

Contributions to compliance

B2 Durability: Performance B2.3.1 [a] not less than 50 years, B2.3.1 [b] 15 years, and B2.3.1 [c] 5 years. The Aquatherm green pipe system meets these requirements. See Branz Appraisal No. 539 [2023] Paragraphs 8.1-8.3

F2 Hazardous Building materials: Performance F2.3.1. The Aquatherm green pipe systems meet this standard. See Branz Appraisal No. 539 [2023].

G10 water services: Performance G10.3.1 [a]. The Aquatherm green pipe system meets this requirement when used in heating systems. See Branz Appraisal No. 539 [2023]. Paragraphs 9.1-9.3

G12 Water Supplies: Performance G12.3.2[c], G12.3.3, G12.3.4 and G12.3.7 [a] and [b]. The Aquatherm green pipe system contributes to meeting these requirements. See Branz appraisal No. 539 [2023] paragraphs 9.1-9.3 and 12.1

H1 Energy Efficiency: The heat conductivity figure of Fusiolen PP-R is 0.15 W/(mK) - Source; Aquatherm technical manual page 76 edition 08 2020. See Branz appraisal No. 539 [2023] paragraph 13.1 Energy Efficiency, All domestic hot water distribution pipes must be insulated in accordance with the requirements of NZS 4305, Sections 3.7 and 3.8

Supporting documentation

The following additional documentation supports the above statements:

Aquatherm green technical manual	Version 08. 2020	https://aquatherm.co.nz/wp-content/uploads/2016/06/Aquatherm-Green-Tech-Manual.pdf
Branz Appraisal 539	2023 (replacing 539 [2016])	https://aquatherm.co.nz/wp-content/uploads/2023/07/BRANZ-Appraisal-2023-Aquatherm-green-pipe.pdf
Watermark certificate	2022 version	https://aquatherm.co.nz/wp-content/uploads/2016/06/Australia_SAI-Global-green-pipe-S-WMKA02437.4-11-2024-1.pdf

For further information supporting Aquatherm Green claims refer to our website.

Contact Details

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Responsible person

As the responsible person as set out in Regulation 3, I confirm that the information supplied in this declaration is based on information supplied to the company as well as the company's own processes and is therefore to the best of my knowledge, correct.

I can also confirm that Aquatherm Green is not subject to a warning or ban under [s26 of the Building Act](#)

Signed for and on behalf of Aquatherm NZ Ltd:



Name:	Andrew Sommerville
Position:	Managing Director
Month Year:	December 2023

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Appendix

Note: The below appendix includes information relating to BPIR Ready.

Publishing this information is not a requirement under BPIR. Its inclusion here is to provide a reference for how this BPIR summary was generated as well as to help summary creators understand the performance clauses suggested by BPIR Ready.

BPIR Ready selections

Category: Potable water conveying systems

	Yes	No
Intended for hot water transmission Branz Appraisal 539	x	
Capable of being permanently concealed	x	

Building code performance clauses

B2 Durability

B2.3.1

Building elements must, with only normal maintenance, continue to satisfy the performance requirements of this code for the lesser of the specified intended life of the building, if stated, or:

- (a) the life of the building, being not less than 50 years, if: those building elements (including floors, walls, and fixings) provide structural stability to the building, or those building elements are difficult to access or replace, or failure of those building elements to comply with the building code would go undetected during both normal use and maintenance of the building

F2 Hazardous building materials

F2.3.1

The quantities of gas, liquid, radiation or solid particles emitted by materials used in the construction of buildings, shall not give rise to harmful concentrations at the surface of the material where the material is exposed, or in the atmosphere of any space.

G10 Piped services

G10.3.1

Piping systems shall be constructed to avoid the likelihood of:

- a. significant leakage or damage during normal or reasonably foreseeable abnormal conditions,
- b. detrimental contamination of the contents by other substances,
- c. adverse interaction between services, or between piping and electrical systems, and
- d. people having contact with pipes which could cause them harm.

G12 Water Supplies

G12.3.2

A potable water supply system must be—

- a. protected from contamination; and
- b. installed in a manner that avoids the likelihood of contamination within the system and the water main; and
- c. installed using components that will not contaminate the water.

G12.3.7

Water supply systems must be installed in a manner that

- a. pipes water to sanitary fixtures and sanitary appliances at flow rates that are adequate for the correct functioning of those fixtures and appliances under normal conditions; and
- b. avoids the likelihood of leakage; and
- c. allows reasonable access to components likely to need maintenance; and
- d. allows the system and any backflow prevention devices to be isolated for testing and maintenance.

H1 Energy efficiency

H1.3.3

Account must be taken of physical conditions likely to affect energy performance of buildings, including

- a. the thermal mass of building elements; and
- b. the building orientation and shape; and
- c. the airtightness of the building envelope; and
- d. the heat gains from services, processes and occupants; and
- e. the local climate; and
- f. heat gains from solar radiation.