BUILDING PERFORMANCE

CLASS 1

Building Product Information Sheet

Product name:

Multitubo - Composite Pipe and Insulated Composite Pipe

Product line *(the product line from which the product is customised)*:

Multitubo Piping system

Product description and its intended use *(measurements, materials, usage)*:

The Multitubo Piping System consists of multi-layer composite pipe and Brass / PPSU fittings for use as the piping components for hot and cold-water supply, radiant heating supply and in-floor heating elements. The pipe sizes range from 16 mm to 75 mm.

Product identifier *(if applicable)*:

MT16/20/25/32/40/50/63 MTPP16/20/25/32

Please of manufacturer: ☐ Aotearoa New Zealand ☒ Overseas

Legal and trading name of the manufacturer(s):

DW Verbundrohr GmbH

Legal and trading name of the manufacturer(s):

Central Heating New Zealand Ltd

Address for service:

STREET NAME	52 Pilkington Way	SUBURB	Wigram
CITY, COUNTRY	Christchurch, New Zealand	POSTCODE	8042

Website:	https://www.centralheating.co.nz/
Email Address:	info@centralheating.co.nz
Phone No. *(if applicable)*:	03 357 1233
NZBN *(if applicable)*:	9429036621231

Relevant Building Code clauses:

Clause B2 DURABILITY:

Performance B2.3.1 (a), (b), and (c)

Clause F2 HAZARDOUS BUILDING MATERIALS:

Performance F2.3.1.

Clause G10 PIPED SERVICES:

Performance G10.3.1 [a).

Clause G12 WATER SUPPLIES:

Performance G12.3.2 (c) and G12.3.7 (a) and (b).

Statement on how the building product is expected to contribute to compliance:

Clause 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 Multitubo Piping System meets these requirements.

Clause F2 HAZARDOUS BUILDING MATERIALS:

Performance F2.3.1. The Multitubo Piping System meets this requirement and does not present a health hazard to people.

Clause G10 PIPED SERVICES:

Performance G10.3.1 (a). The Multitubo Piping System contributes to meeting this requirement when used in heating systems.

Clause G12 WATER SUPPLIES:

Performance G12.3.2 (c) and G12.3.7 (a) and (b). The Multitubo Piping System contributes to meeting these requirements.

Tests have been carried out on the Multitubo Piping System by SKZ [Suddeutsches Kunststoff- Zentrum] Testing Laboratory in accordance with DVGW [German Gas and Water Professional Association] worksheet W542 and W534. The test results have been reviewed by BRANZ experts and found to be satisfactory.

Tests have been carried out on the fittings by SKZ Testing Laboratory in accordance with DVGW worksheet W534.

The Multitubo pipe and fittings are certified to DVGW W5311 and are the subject of a DVGW test mark, Registration No. DW-8501BR0253.

Dezincification tests have been carried out on the fittings by Gesellschaft für Elektrometallurgie GmbH in accordance with ISO 6509. The test results have been reviewed by BRANZ experts and found to be satisfactory.

Multitubo pipe and o-rings in the brass fittings have been tested by Water Regulations Advisory Scheme [WRAS] in accordance with BS 6920 and is suitable for potable water supply use in accordance with NZBC Acceptable Solution G12/AS1, Clause 2.1.2.

The test results have been reviewed by BRANZ experts and found to be satisfactory.

Domestic type hot water distribution pipes must be insulated in accordance with NZS 4305. Sections 3.7 and 3.8 to meet the requirements of NZBC Clause H1.3.4.

An assessment was made of the durability of the Multitubo Piping System by BRANZ technical experts.

The Technical Literature has been examined by BRANZ and found to be satisfactory.

- *options for compliance set out in section 19 of the Act (regulations, acceptable solution, verification method)*
- *standard or technical document that describes the performance of the building product or the relevant specifications to which the building product was manufactured.*
- *physical properties of the building product*
- *how the building product is intended to be used.*

Limitations on the use of the building product:

- Please refer to the Multitubo composite pipe technical manual and product specification supporting information provided on the Central Heating NZ website

- Refer also BRANZ Appraisal 740

- The Multitubo Piping System must not be used where it will be subject to direct sunlight. Riser sections of pipe in heating systems must be covered from direct sunlight during installation and operation, or until the building is closed in.

Design requirements that would support the use of the building product:

Please refer to the Multitubo composite technical manual and product specification supporting information provided on the Central Heating NZ website.

Multitubo pipe is suitable for use in proprietary heating systems. These include embedded heating pipes in concrete slabs and circulation pipes for radiator type heating systems. These systems are to a specific design by the heating system proprietor and components other than the Multitubo pipe and fittings are outside the scope of this system.

Compliance with NZ building code clause B1 for installation of underfloor heating pipework within a concrete floor slab is outside the scope of B1/AS1 and the responsibility of the slab designer. Specific flooring design must be in accordance with AS/NZS 1170 and NZS 3101.1. Non-specific flooring design must be in accordance with NZS 3604 or NZS 4229, as amended by NZBC Clause B1/AS1. Construction must be in accordance with NZS 3109.

The Multitubo multi-layer composite pipe must not be connected to auxiliary heaters such as solar collection panels or wet-backs without the installation of temperature protection devices in the system. Without protection temperatures may exceed the operating limits. Multitubo pipes and fittings must not be installed within 1 metre of an inlet or outlet of these types of auxilliary heaters.

Design must consider the requirement of building code clause H1 for heated slabs.

Installation requirements:

Please refer to the Multitubo composite technical manual, installation guide, technical guide and product specification supporting information provided on the Central Heating NZ website.

The Multitubo Piping System for water supply must be designed and installed in accordance with the requirements of NZBC Acceptable Solution G12/AS1. Specific design installations may be designed in accordance with AS/NZS 3500.1 and AS/NZS 3500.4.

As the metal sleeves of the press fittings are not stainless steel they must not be used in environments that would be conducive to corrosion.

The minimum bending radius for Multitubo PE-RT Inverse Pipes is five times the pipe diameter.

Pipework for potable water supply must be installed by a qualified and licensed plumber.

Cold water supply pipes must not be embedded in heated concrete slabs. Where water supply pipes must pass through concrete slabs they must do so at right angles to the surface of the slab and be lagged with an impermeable flexible plastic material of not less than 6 mm thickness for the full depth of the slab penetration.

Maintenance requirements:

Access for maintenance and replacement is limited where installation is encased in cast concrete slabs.

Check Fernox inhibitor levels are within acceptable range.

Is the building product/building product line subject to warning or ban under section 26?:

☐ Yes ☒ No

If yes, description of the warning or ban under section 26:

Date: 3 0 0 8 2 3