



35 Taylors Road, Morningside, Auckland

PO Box 41495

[MULTEC NZ LIMITED](#)

St Lukes 1346

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PRODUCT TECHNICAL STATEMENT

Incorporating BPIR requirements as per
Building Product Information Regulations 2022

Multec pipes products for plumbing installations

Multec pipe products are for use in water supply installations.

This PTS covers all of the products supplied by Multec in New Zealand.

To find the required information on specific products, please follow the link to the Multec website and link to the various categories for product supplies and all relevant information will be found.

MULTEC Pex Plumbing System product features

MULTEC PEX Plumbing System is an integration of durable and flexible pipes, brass fittings and manifolds. PEX Plumbing System has met the performance standards in many countries and is being used all over the world. MULTEC PEX pipe is produced with cross-linked polyethylene. Cross-linking is obtained through a chemical process that increases the bonds between macromolecules to form a more complex structure than the normal polyethylene. Due to the cross-linking the polyethylene's performance is greatly enhanced still maintaining the excellent properties of thermoplastics.

- Outstanding quality, strong toughness and high internal pressure strength.
- MULTEC PEX pipes can resist temperatures of 95° C. With excellent corrosion resistance and environmental stress crack resistance, the product can deliver chemical fluids under high-temperature conditions.
- Due to smooth inner wall of the pipe, small fluid flow resistance, excellent hydraulic performance, the product has the larger fluid flow than the metal pipe.
- MULTEC PEX pipes are certified to standards AS/NZS 2492 and carry a 25-year warranty.

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MULTEC PEX-AL-PEX Pipe is composite pipe that combines the advantages of a metal and plastic pipe and eliminates the disadvantages of both materials at the same times. The aluminium core is absolutely diffusion tight. It reliably prevents oxygen/gases from permeating into pipe. It compensates and reduces snap-back forces and heat expansion with changes of temperature.

- Based on MULTEC multilayer pipe, the system is built for safety and reliability, using corrosion-proof components.
 - Ease of installation, the combination of plastic and meal makes MULTEC multilayer pipe an ideal utility for gas, all common hot and cold-water installations.
 - MULTEC PEX-AL-PEX multilayer pipes outperform any other plastic pipe for temperature and pressure.
 - MULTEC PEX-AL-PEX multilayer pipes are certified to standards AS4176 and carries a 25-year warranty.
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Purpose and use

Multec pipe products for use in water supply are suitable for mains pressure.

Product description

Multec pipe products complies with the NZBC as mentioned below in the BPIR section.

Key advantages

Each Multec product specification, features and benefits are available on the website and as shown above.

Installation Instructions

Multec recommends that all installation is done by a registered plumber. Installation Instructions are supplied with the product.

Multec pipe installation instructions can be found in Appendix 1, and is also available on the website here:

[Installation Instruction](#)

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Multec pipe products QA processes & certifications.

Multec pipe products undertake testing and inspections of all products as part of the QA requirements, resulting in certifications, audited on an annual basis for compliance.

Multec pipe products are certified to the following certifications:

Pe-X pipe for pressure applications

WaterMark Certificate No WM 74901 to AS/NZS 2492:2007 (see Appendix 2)

Mechanical fittings for Pe-X pipe pressure applications (hot and cold water)

WaterMark Certificate No WM 74902 to AS/NZS 2537.2:2011 (see Appendix 3)

Multi-layer pipes for pressure applications (hot and cold water)

WaterMark Certificate No 74899 to AS/NZS 4176.2:2010 (see Appendix 4)

Mechanical fittings for multi-layer pipe hot and cold-water applications

WaterMark Certificate No WM 74900 to AS 4176.3:2010 (see Appendix 5)

Multi-layer pipes for pressure applications (gas installations)

StandardsMark Certificate No AMI 74903 to AS 4176.8:2010 (see Appendix 6)

Contribution to Compliance

Multec pipe products are in full compliance with the requirements as set out in the New Zealand Building Code, as follows:

Building code	Requirement	Compliance evidence
B2 (Durability) B2.3.1 (c) applies	(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:	As part of a plumbing system for supply of cold, hot or mixed water temperatures. These products can be used in residential and/or commercial buildings where cold, hot or mixed water temperatures hot water is required to be supplied.

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	(i) Those building elements (including floors, walls, and fixings) provide structural stability to the building, or (ii) Those building elements are difficult to access or replace, or (iii) Failure of those building elements to comply with the building code would go undetected during both normal use and maintenance of the building. (b) 15 years if: (i) Those building elements (including the building envelope, exposed plumbing in the subfloor space, and in-built chimneys and flues) are moderately difficult to access or replace, or (ii) Failure of those building elements to comply with the building code would go undetected during normal use of the building but would be easily detected during normal maintenance. (c) 5 years if: (i) The building elements (including services, linings, renewable protective coatings, and fixtures) are easy to access and replace, and (ii) Failure of those building elements to comply with the building code would be easily detected during normal use of the building.	Not suitable for use in areas which are being permanently concealed such as behind concrete. No maintenance required apart from during normal course of use. Proof of durability – Service history Multec pipe products have been manufactured and supplied worldwide since 1999. Warranty calls are at a minimum and within the quality principles of Multec. All Warranty claims are investigated, and corrective/preventive actions are implemented. Products are WaterMarked and StandardsMarked as shown and certified are subject to endurance testing. Refer warranty statement as shown in Appendix 7
F2 (Hazardous-building-materials) F2.2 Building materials	Building materials which are potentially hazardous, shall be used in ways that to avoid undue risk to people.	Multec pipe products does not contaminate water. Certified products have been tested and passed AS/NZS 4020 (contamination of water).
G12 (Water supplies) G12.3.2 applies	G12.3.2 A potable water supply system shall be– (a) protected from contamination; and (b) installed in a manner which avoids the likelihood of contamination within the system and the water main; and (c) installed using components that will not contaminate the water.	Multec pipe products has a variety of international product certifications (WaterMark and StandardsMark) as shown above. All Multec pipe products are designed, manufactured and inspected/tested, that are WaterMark certified, are

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G12.3.7 applies	G12.3.7 Water supply systems must be installed in a manner that– (a) pipes water to sanitary fixtures and sanitary appliances 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.	subject to contamination of water testing (AS/NZS 4020). Where products are WaterMarked, this will include compliance with AS/NZS 4020 as mentioned in AS1 Refer Appendix 2 through to 6 All Multec pipe products are designed, manufactured and inspected/tested and are WaterMark certified, are subject to flow rates testing that is within the limitation set by the AS/NZS 3500 (NZBC) and the WELS regulations.
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Design, construction and installation instructions

Installation Instructions

Multec pipe products installation is to be done by registered plumbers. Installation Instructions are supplied with the product.

Maintenance requirements

There is no specific maintenance or cleaning requirements for pipes and fittings.

Limitations

Limitations and use are specified in the technical information sheets obtainable from the website and differs by product.

Quality assurance

The following certifications has been accredited to the product and/or manufacturer.

Multec supplier has a variety of certifications including:

- ISO certifications:
 - ISO 9001 Quality Management (Appendix 8)
 - ISO 14001 Environmental management (Appendix 9)

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- ISO 45001 Occupational safety management (Appendix 10)

Product support

Full product support can be found at or at:

Multec NZ Ltd
35 Taylors Road, Morningside, Auckland
PO Box 41495
[MULTEC NZ LIMITED](#)
St Lukes 1346
Ph 09 845 5595
E-mail: tony@multec.nz

Manufacturer

All Multec pipe products are manufactured by Mingshi ([ZHEJIANG MINGSHI- High quality fittings & pipes Manufacturer and Supplier](#)) and supplied and distributed by Multec.

Warnings and Bans

There is no warning or ban applicable on any Multec pipe products, subject to the Building Act 2004, Section 26.

Warranty statement

Products Guarantee

Please refer to Appendix 8 for the Guarantee Statement.

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Appendix 1 – Installation Instructions



MULTEC

THE NEXT GENERATION PLUMBING & GAS SYSTEMS
SAME FITTINGS FOR WATER & GAS

MULTEC PIPING SYSTEMS FITTING INSTRUCTIONS

BACKGROUND

Multec Pipe and Fitting are made from Industrial Grade Materials and are suited to both Domestic and Commercial Plumbing for both Water and Gas.

Multec is a New Zealand Company and sources its products from the world leaders in manufacturers.

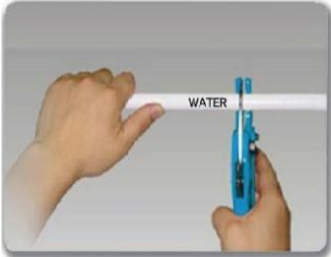
PRODUCT DETAILS & DESCRIPTION

Multec pipe is a composite pipe with 3 main layers, the inner is cross-linked polyethylene, middle layer is butt-welded aluminium, which acts as an oxygen barrier and also means the pipe can be bent and retain that bend without anchoring. The outer layer is cross-polyethylene and can be of different colors for different applications. All fittings are manufactured to the highest standards, machined to exacting tolerances and made from the highest quality DR Brass, crimping sleeves are stainless steel.

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PLEASE NOTE:

Multec Piping System's Warranty is void if not installed by Fully Licensed Plumbers or Gas fitters (Contractors or Practitioner) or Registered plumbers under the direction of a Licensed Plumber, in compliance with the relevant Authorities in New Zealand and in accordance AS/NZS 3500 and AS/NZS 5601.



STEP 1 : CUTTING

Using a Multec Pipe Cutter, cut the pipe square. (Using a Hacksaw is not recommended)



STEP 2 : ROUNDING AND BEVELLING

THIS IS IMPORTANT AND REQUIRED TO PROTECT THE O'RINGS FROM DISLODGE MENT OR DAMAGE.

Round and Bevel the end of the pipe with the Multec Pipe Reamer. Pushing the tool into the pipe until the pipe touches the blade, turning once or twice is all that is required.



STEP 3 : INSTALLING THE FITTINGS

Using the correct size fitting, first check if the fitting is clean and debris free and "O-Ring" are in place. Now insert the pipe into the stainless steel sleeve and over the barb on the fitting. The sleeves have inspection holes, so when the pipe is pushed to the shoulder of the fitting the pipe can be seen through the inspection holes.

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THE NEXT GENERATION PLUMBING & GAS SYSTEMS
SAME FITTINGS FOR WATER & GAS

MULTEC PIPING SYSTEMS FITTING INSTRUCTIONS

TECHNICAL CHARACTERISTICS

External Diameter (mm)

16 20 25

Coil Length (mtrs)

50 & 100

Internal Volume (ltrs/Mtrs)

16 = 0.103

20 = 0.176

25 = 0.314

Operating Temperature (

80c

Maximum Operating Pressure @

95c @10 bar

Coefficient Heat Expansion

0.026 mm/mK

Internal Heat Conductivity

0.43 W/mK

Oxygen Diffusion (mg/l) = 0

Pipe Weight (g/m)

16 = 134 20 = 166 25 = 298

Thermal Conductivity

Multec Pipe = 0.43 W/mK

Copper Pipe = 305 -355 W/mK



STEP 4 : CRIMPING (OR PRESSING)

With the correct sized Multec Crimping Tool. Check to see if the tool has the required tension, the tool should have spring tension in the handles when released.

Adjust with the tension screw if loose .

Open the Jaw of the tool so the sleeved part of the fitting is in the Jaw and butted up to the plastic shoulder but NOT over the plastic shoulder.

Close the handles until the handle are fully closed, the tool jaws should be touching, release the tool, the handles should be under tension as you open the jaws.

DOUBLE CHECK ALL CRIMPS.
YOU ARE "PLUMBERS AND GAS
FI TTERS"

ITS YOUR RESPONSIBL I TY NOT
YOUR EMPLOYERS.

Testing Procedure

Water:

As per AS/NZS 3500.1:2003 section 16.3.1 . 1500KPA for not less than 30 min. Multec recommend taking pressure up to 2000kpa and then bleeding the pressure back to 1500kpa then hold for the test period.

Gas:

As per AS/NZS 5601. **DOUBLE CHECK ALL CRIMPS.**

MULTEC NZ LIMITED

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Appendix 2

Pe-X pipe for pressure applications WaterMark Certificate No WM 74901 to
AS/NZS 2492:2007



CERTIFICATE OF CONFORMITY

ApprovalMark International hereby grants:

Multec NZ Ltd

35 Taylors Road
Morningside, Auckland
New Zealand

WaterMark Certificate of Conformity – WMCS 2016

Evaluated to:

AS/NZS 2492:2007 – Cross-linked polyethylene (PE-X) pipes for pressure applications

The WaterMark licensee shall comply with all the terms and conditions as stipulated by the governance of the operating rules of WaterMark and shall comply with standard requirement at all times including when standard is amended. The WaterMark license only covers the product which is identified in the product schedule.

This certificate is issued by a JAS-ANZ accredited certification 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.

* This certificate may only be reproduced in its entirety.

Certificate No. WM 74901

Issued: 28th April 2022

Expires: 28th April 2027

Originally Certified: 28th April 2022

Current Certification: 28th April 2022

John PRASAD

Director
ApprovalMark International Pty Ltd
18/33 Holbeche Road, Arndell Park 2148, Australia
www.approvalmark.com



Document type	Revision	Revision date
Product Technical Specification & BPIR Multec pipe products for water supply	1	24 November 2025

Appendix 3

Mechanical fittings for Pe-X pipe pressure applications (hot and cold water)

WaterMark Certificate No WM 74902 to AS/NZS 2537.2:2011



CERTIFICATE OF CONFORMITY

ApprovalMark International hereby grants:

Multec NZ Ltd

35 Taylors Road
Morningside, Auckland
New Zealand

WaterMark Certificate of Conformity – WMCS 2016

Evaluated to:

AS/NZS 2537.2:2011 – Mechanical jointing fittings for use with crosslinked polyethylene (PE-X) for pressure applications – Plastics piping systems for hot and cold water installations – Crosslinked polyethylene (PE-X) – Fittings (ISO 15875-3:2003, MOD)

The WaterMark licensee shall comply with all the terms and conditions as stipulated by the governance of the operating rules of WaterMark and shall comply with standard requirement at all times including when standard is amended. The WaterMark license only covers the product which is identified in the product schedule.

This certificate is issued by a JAS-ANZ accredited certification 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.

* This certificate may only be reproduced in its entirety.

Certificate No. WM 74902

Issued: 30th October 2025

Originally Certified: 28th April 2022

Expires: 28th April 2027

Current Certification: 30th October 2025

John PRASAD

Director

ApprovalMark International Pty Ltd
18/33 Holbeche Road, Arndell Park 2148, Australia
www.approvalmark.com



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Appendix 4

Multi-layer pipes for pressure applications (hot and cold water) WaterMark Certificate No 74899 to AS/NZS 4176.2:2010



CERTIFICATE OF CONFORMITY

ApprovalMark International hereby grants:

Multec NZ Ltd

35 Taylors Road
Morningside, Auckland
New Zealand

WaterMark Certificate of Conformity – WMCS 2016

Evaluated to:

AS 4176.2:2010 – Multilayer pipes for pressure applications Multilayer piping systems for hot and cold water plumbing applications – Pipes (ISO 21003-2:2008,MOD)

The WaterMark licensee shall comply with all the terms and conditions as stipulated by the governance of the operating rules of WaterMark, and shall comply with standard requirement at all times including when standard is amended. The WaterMark license only covers the product which is identified in the product schedule.

This certificate is issued by a JAS-ANZ accredited certification 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.

* This certificate may only be reproduced in its entirety.

Certificate No. WM 74899

Issued: 28th April 2022

Originally Certified: 28th April 2022

Expires: 28th April 2027

Current Certification: 28th April 2022

A handwritten signature in black ink, appearing to read "John PRASAD".

John PRASAD

Director
ApprovalMark International Pty Ltd
20/33 Holbeche Road, Arndell Park 2148, Australia
www.approvalmark.com



Document type	Revision	Revision date
Product Technical Specification & BPIR Multec pipe products for water supply	1	24 November 2025

Appendix 5

Mechanical fittings for multi-layer pipe hot and cold-water applications

WaterMark Certificate No WM 74900 to AS 4176.3:2010



CERTIFICATE OF CONFORMITY

ApprovalMark International hereby grants:

Multec NZ Ltd

35 Taylors Road
Morningside, Auckland
New Zealand

WaterMark Certificate of Conformity – WMCS 2016

Evaluated to:

AS 4176.3:2010 – Multilayer pipes for pressure applications - Multilayer piping systems for hot and cold water plumbing applications – Fittings (ISO 21003-3:2008, MOD)

The WaterMark licensee shall comply with all the terms and conditions as stipulated by the governance of the operating rules of WaterMark and shall comply with standard requirement at all times including when standard is amended. The WaterMark license only covers the product which is identified in the product schedule.

This certificate is issued by a JAS-ANZ accredited certification 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.

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Certificate No. WM 74900

Issued: 30th October 2025

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Expires: 28th April 2027

Current Certification: 30th October 2025

John PRASAD

Director
ApprovalMark International Pty Ltd
18/33 Holbeche Road, Arndell Park 2148, Australia
www.approvalmark.com



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Appendix 6

Multi-layer pipes for pressure applications (gas installations)

StandardsMark Certificate No AMI 74903 to AS 4176.8:2010

ISO TYPE 5

CERTIFICATE OF CONFORMITY



ApprovalMark International hereby grants:

Multec NZ Ltd
35 Taylors Road
Morningside, Auckland
New Zealand

ISO Type 5 Certificate of Conformity

Evaluated to:
AS 4176.8:2010 – Multilayer pipes for pressure applications Multilayer pipe systems for consumer gas installations with a maximum operating pressure up to and including 5 bar (500kPa) – specifications for systems (ISO 17484-1:2006, MOD)

The ISO Type 5 License shall comply with all the terms and conditions as stipulated by the governance of the operating rules of the ISO Type 5 Scheme and shall comply with the standard requirements at all times including when the standard is amended. The ISO Type 5 License only covers the product which is identified in the attached product schedule.

Certificate No. AMI 74903

Issued: 28th April 2022
Expires: 28th April 2027


John PRASAD
Director
ApprovalMark International Pty Ltd
18/33 Holbeche Road, Arndell Park 2148, Australia
www.approvalmark.com



Registered by: ApprovalMark International Pty Ltd (ABN 69 143 259 974) Unit 18, 33 Holbeche Road, Arndell Park NSW 2148 Australia. The assessment was carried with appropriate skill and assessment by ApprovalMark International Pty Ltd, however it will only accept its responsibility for proven negligence. The certificate remains the property of ApprovalMark International Pty Ltd.

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Product Technical Specification & BPIR Multec pipe products for water supply	1	24 November 2025

ISO 9001 Quality Management



Document type	Revision	Revision date
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ISO 14001 Environmental management



Appendix 10

ISO 45001 Occupational safety management

GAINSHINE ASSESSMENT

OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM CERTIFICATE

★ ★ ★ ★ ★

The occupational health and safety management system of:
Zhejiang Mingshi Xingxin HVAC Technology Co., Ltd.
Unified social credit code:91330681344044867M
is certified to:GB/T45001-2020/ISO45001:2018 standard,for the scope of:
Design, Development, Production, Maintenance, Technical Support Service of Medium-High Pressure Industry
Cylinder Valves (LPG Cylinder Valves, Refrigerants Cylinder Valves, Oxygen Valves, Valves for Vehicles,
Dimethyl Ether Cylinder Valve), Pipeline Gas Automatic Shut-Off Valve, Polyethylene/Aluminum/Polyethylene
Composite Pipes, Brass Fittings, Ball Valves, PE-RT Pipe & Fittings, PE-X Pipe & Fittings, PP-R Pipe & Fittings
and Sales of Supporting Tools, and Related Management Activity.
The fixed site(s) covered by this certification:
License Address:No.7-1 Fengye Road, Diankou Town, Zhuji City, Zhejiang Province, P.R. China(311814)
Auditing Address:(Opposites Hailiang Garden), No.818 Jiefang Road, Diankou Town, Zhuji City, Zhejiang
Province, P.R. China(311814)
and the Other Locations in the Appendix
Certificate No:1323S10100R1M
The certificate issued on:18/04/2023 Expiry date:17/04/2026

Note: If there is request of administrative license, the scope of this certificate keeps the same with that of
administrative license.
Certificate information can be queried at the website of CNCA(www.cnca.gov.cn).
Anything refer to the scope of this certificate and applicability of standard requirements can be inquired through
GAC or the certificated organization for further information.
The effectiveness of this certificate(the validity of the sub certificate depends on the validity of the main certificate)
shall be validated by periodic surveillance audit of GAC for maintenance.
This certificate will not be in force unless the annual label for surveillance qualified is stuck thereunder.

1st Surveillance audit

2nd Surveillance audit

3rd Surveillance audit

GAC(Signature): *Sum*



管理体系
MANAGEMENT SYSTEM



MEMBER OF MULTILATERAL
ACREDITATION ARRANGEMENT



中国认可
国际互认
管理体系
MANAGEMENT SYSTEM
CNAS C013-M



区块链存证核验

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