

# flow

PLUMBING IMPORTS LTD



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## PRODUCT TECHNICAL STATEMENT

Incorporating BPIR requirements as per  
Building Product Information Regulations 2022

### McAlpine traps, waste pipe and fittings

McAlpine traps, waste pipe and fittings products are for use in drainage as per the NZ Building Code requirements.

This PTS covers all McAlpine traps, waste pipe and fitting products supplied by Flow Imports in New Zealand.

McAlpine started manufacturing plumbing products in 1902 and in 1957 was the first UK company to manufacture Plastic Traps. McAlpine, still a privately owned family company, continues to manufacture in the UK an exceptionally wide range of plumbing products.

#### Revision control

Revision number	Revision information	Date
v 1	New PTS incorporating BPIR	30 October 2023

Document type	Revision	Revision date
Product Technical Specification & BPIR McAlpine traps, waste pipe and fittings	v 1	30 October 2023

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Document type	Revision	Revision date
Product Technical Specification & BPIR McAlpine traps, waste pipe and fittings	v 1	30 October 2023

### Purpose and use

Traps, waste pipe and fittings are suitable for use in drainage according to the requirements of the NZ Building Code.

### Product description

McAlpine traps, waste pipe and fittings products comply with the NZBC as mentioned below in the BPIR section.

### Search process for relevant information on product

Website: [Plumbing Trade Supplies | Flow Imports](#)

Product data available are, for example:

Product data that are available, for example, are:

- Product code
- Picture of the product
- Detail drawing with dimensions (including for download)

### Key advantages

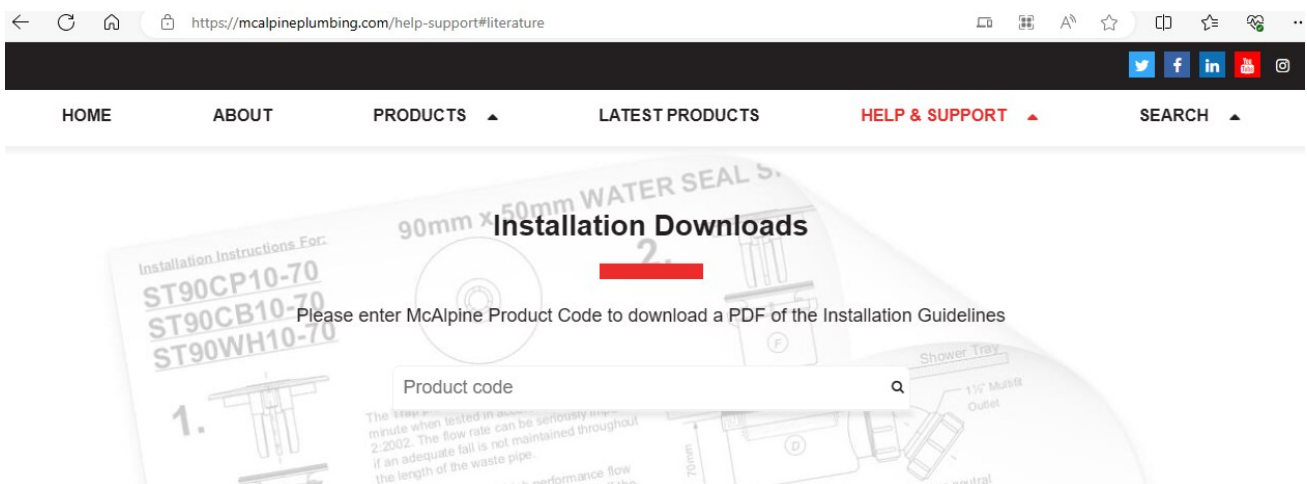
Each McAlpine product specification, features and benefits are available on the website as shown above.

### Installation

Installation of McAlpine traps, waste pipe and fittings are to be done by qualified plumbers.

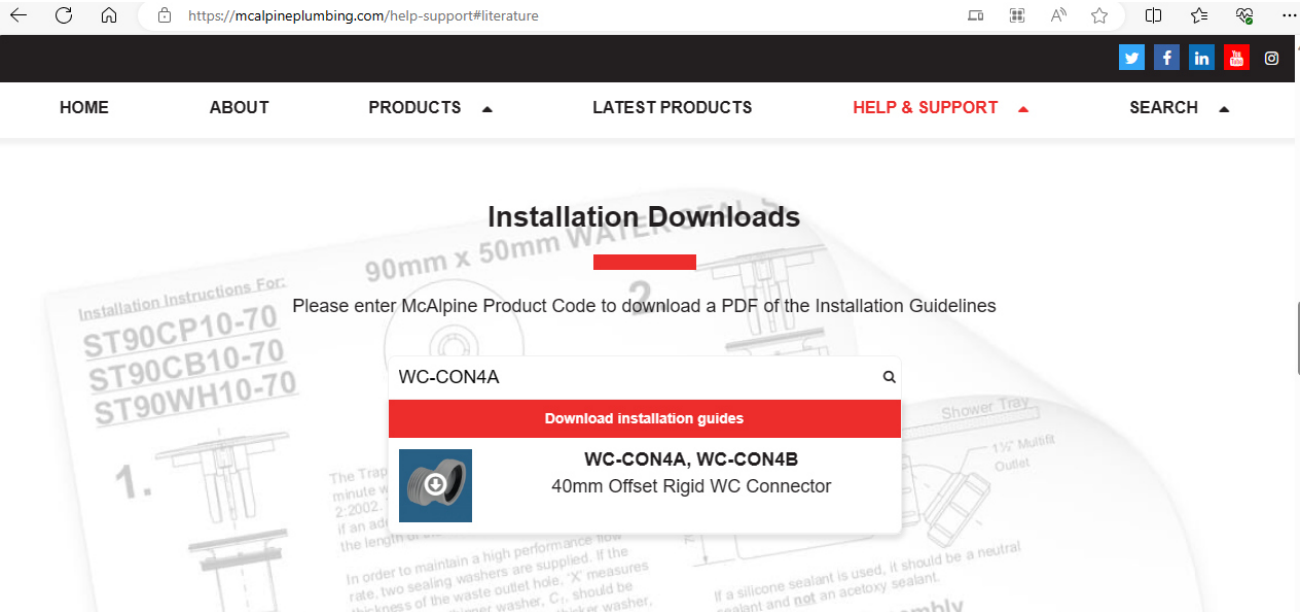
Installation guidelines are available on the McAlpine website after entering the product code, e.g.:

[Help & Support | McAlpine Plumbing Products](#)

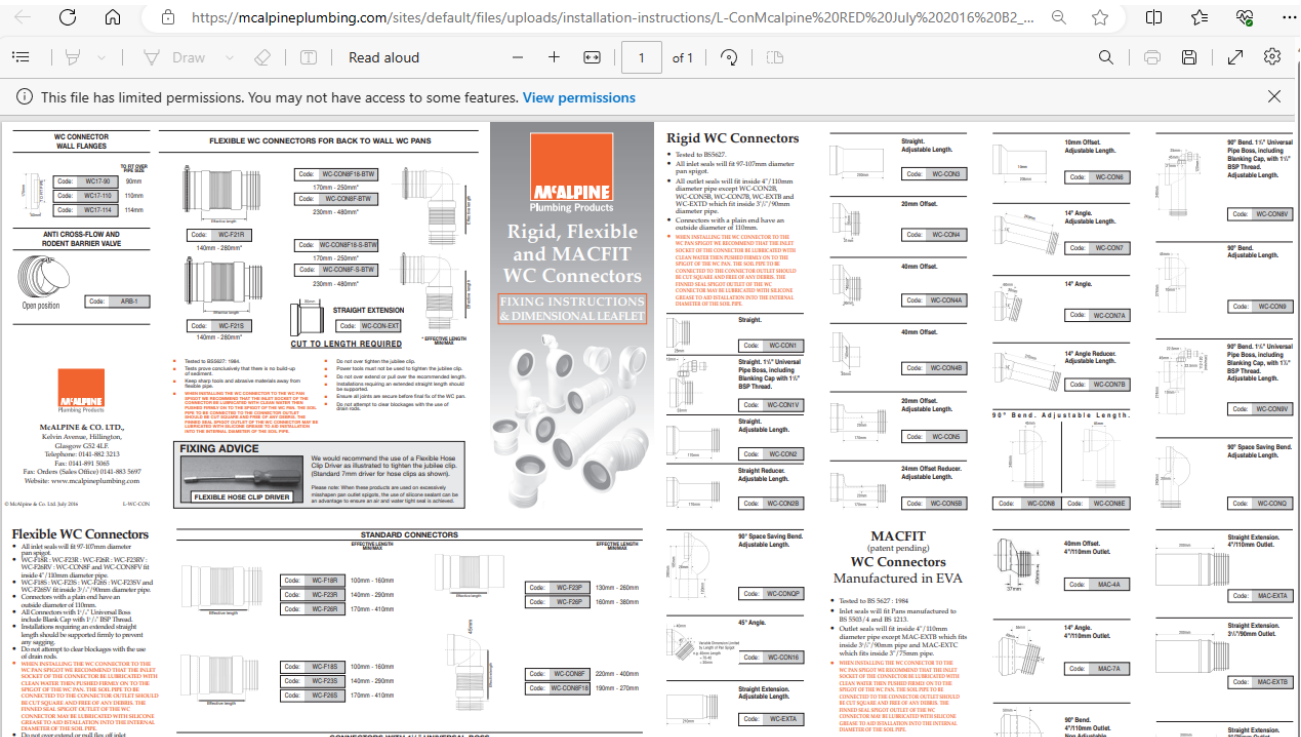


Document type	Revision	Revision date
Product Technical Specification & BPIR McAlpine traps, waste pipe and fittings	v 1	30 October 2023

Enter product code: For WC-CON4A-NZ, enter WC-CON4A (omit the NZ)



By clicking on the Search button. The pdf is shown and available for download.



Document type	Revision	Revision date
Product Technical Specification & BPIR McAlpine traps, waste pipe and fittings	v 1	30 October 2023

### McAlpine traps, waste pipe and fittings product QA processes

McAlpine traps, waste pipe and fittings products undertake testing and inspections of all products as part of the QA requirements.

All McAlpine products supplied into NZ has been subjected to Type Testing (in process performance testing – Refer Appendix 1) and declarations of performance are supplied (international product performance testing) (refer Appendix 2).

In addition, these include the 4 WaterMark certifications as shown below:

WM 020035 – AS/NZS 4936:2002 Air admittance valves  
[WM Certificate](#) | [WaterMark \(abcb.gov.au\)](#) for WM 020035

WM 022081 – AS 2887:1993 Plastic waste fittings  
[WM Certificate](#) | [WaterMark \(abcb.gov.au\)](#) for WM 022081

WM 022371 – WMTS 517:2016 Offset Pan Connector  
[WM Certificate](#) | [WaterMark \(abcb.gov.au\)](#) for WM 022371

WM 022630 – WMTS 047:2016 Self-sealing devices  
[WM Certificate](#) | [WaterMark \(abcb.gov.au\)](#) for WM 022630

Refer Appendix 3

### Contribution to Compliance

McAlpine traps, waste pipe and fittings products copper Kitchen and bathroom 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: (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	
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	<p>undetected during both normal use and maintenance of the building.</p> <p>(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.</p> <p>(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.</p>	<p>15 years:  As part of a plumbing system for drainage of waste materials.</p> <p>These products can be used in residential and/or commercial buildings where waste materials are to be removed safely and hygienically.</p> <p>Suitable for use in areas which are being permanently concealed such as behind concrete.</p> <p>No maintenance required apart from during normal course of use.</p> <p>Proof of durability – Service history  McAlpine products have been manufactured and supplied worldwide since 1957.</p> <p>Warranty calls are at a minimum and within the quality principles of McAlpine.  All Warranty claims are investigated, and corrective/preventive actions are implemented.</p> <p>All McAlpine products supplied into NZ has been subjected to Type Testing (in process performance testing – Refer Appendix 1).</p> <p>Declarations of performance are supplied (international product performance testing) (refer Appendix 2).</p> <p>4 WaterMark certifications as shown in Appendix 3</p>
<p>G13 (Foul water)</p> <p>G 13.3.1</p>	<p>G13.3.1  The plumbing system shall be constructed to:  a) convey foul water from buildings to a drainage system,</p>	<p>These clauses are aimed at the plumber/installer.</p> <p>McAlpine products ensure that the products supplied enable the plumber to comply to the requirements.</p>

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	<ul style="list-style-type: none"> <li>b) avoid the likelihood of blockage and leakage,</li> <li>c) avoid the likelihood of foul air and gases entering buildings, and</li> <li>d) provide reasonable access for maintenance and clearing blockages.</li> </ul>	<p>All McAlpine products supplied into NZ has been subjected to Type Testing (in process performance testing – Refer Appendix 1).</p> <p>Declarations of performance are supplied (international product performance testing) (refer Appendix 2).</p> <p>4 WaterMark certifications as shown in Appendix 3</p>
G 13.3.2	<p>G 13.3.2 The drainage system shall:</p> <ul style="list-style-type: none"> <li>a. convey foul water to an appropriate outfall,</li> <li>b. be constructed to avoid the likelihood of blockage,</li> <li>c. be supported, jointed and protected in a way that will avoid the likelihood of penetration of roots or the entry of ground water,</li> <li>d. be provided with reasonable access for maintenance and clearing blockages,</li> <li>e. be ventilated to avoid the likelihood of foul air and gases accumulating in the drainage system and sewer, and</li> <li>f. be constructed to avoid the likelihood of damage from superimposed loads or normal ground movement.</li> </ul>	<p>These clauses are aimed at the plumber/installer.</p> <p>McAlpine products ensure that the products supplied enable the plumber to comply to the requirements.</p> <p>All McAlpine products supplied into NZ has been subjected to Type Testing (in process performance testing – Refer Appendix 1).</p> <p>Declarations of performance are supplied (international product performance testing) (refer Appendix 2).</p> <p>4 WaterMark certifications as shown in Appendix 3</p>

## Design, construction and installation instructions

### Installation Instructions

McAlpine traps, waste pipe and fittings products are recommended to be installed by qualified plumbers.

Installation Instructions are as per download: [Help & Support | McAlpine Plumbing Products](#)

### Limitations of use

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

See Appendix 1 and 2

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## Maintenance requirements

No specific maintenance is required over the life of all McAlpine traps, waste pipe and fittings products.

## Quality assurance

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

- All McAlpine products supplied into NZ has been subjected to Type Testing (in process performance testing – Refer Appendix 1).
- Declarations of performance are supplied (international product performance testing) (refer Appendix 2).
- 4 WaterMark certifications as shown in Appendix 3

## Product support

Full product support can be found at McAlpine NZ Ltd

Flow Imports  
24A Morrin Rd  
Mt Wellington  
Auckland

P 0800 426 747  
E [info@flowimports.co.nz](mailto:info@flowimports.co.nz)  
[www.flowimports.co.nz](http://www.flowimports.co.nz)

## Manufacturer

All McAlpine products are manufactured by McAlpine UK, and imported and distributed by Flow Imports Ltd.

### McAlpine Plumbing

Kelvin Avenue,  
Hillington,  
Glasgow G52 4LF

United Kingdom

[Home | McAlpine Plumbing Products](#)

## Warnings and Bans

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

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## Appendix 1 – Type Tests report examples

Document type	Revision	Revision date
Product Technical Specification & BPIR McAlpine traps, waste pipe and fittings	v 1	30 October 2023

INITIAL TYPE TESTING	
<b>Product Code</b>	FLXCCS1A

**1. Scope Requirements:**

Flexible fittings designed for use on basin, sink & bath wastes. Product drawings are appended.

**2. Test Standards:**

Tests carried out in accordance with the following standard:

BS EN 274-2:2002 Waste fittings for sanitary appliances.

**3. Testing Requirements:**

**Appearance Requirements** in accordance with BS EN 1451-1: 2017 – internal and external surfaces of the connectors are smooth, clean and free from grooving, blistering and any other surface defect likely to impair their performance.

**Dimensional Requirements** in accordance with BS EN 1451-1: 2017 – fittings conform to dimensional requirements specified.

**Water Tightness** in accordance with BS EN 274-2: 2002– fittings subjected to a pressure of 0.1 bar for 5 minutes. No leaks were noted.

**Elevated Temperature Cycling Test** in accordance with BS EN 274-2: 2002– fittings subjected to the following schedule for 1500 cycles:

(30 ± 0.5) l of water at (93 ± 2) °C for 1 minute

Rest and drain for 1 minute

(30 ± 0.5) l of water at (15 ± 5) °C for 1 minute

Rest and drain for 1 minute

For fittings with a nominal outside diameter of Ø32mm, the flow rate is reduced to (15 ± 0.5) ltr. Following the cycle test, the fittings were tested for water tightness as above. No leaks were noted.

**4. Quality Control:**

Factory Production Control is carried out as per BS EN 274-1: 2002

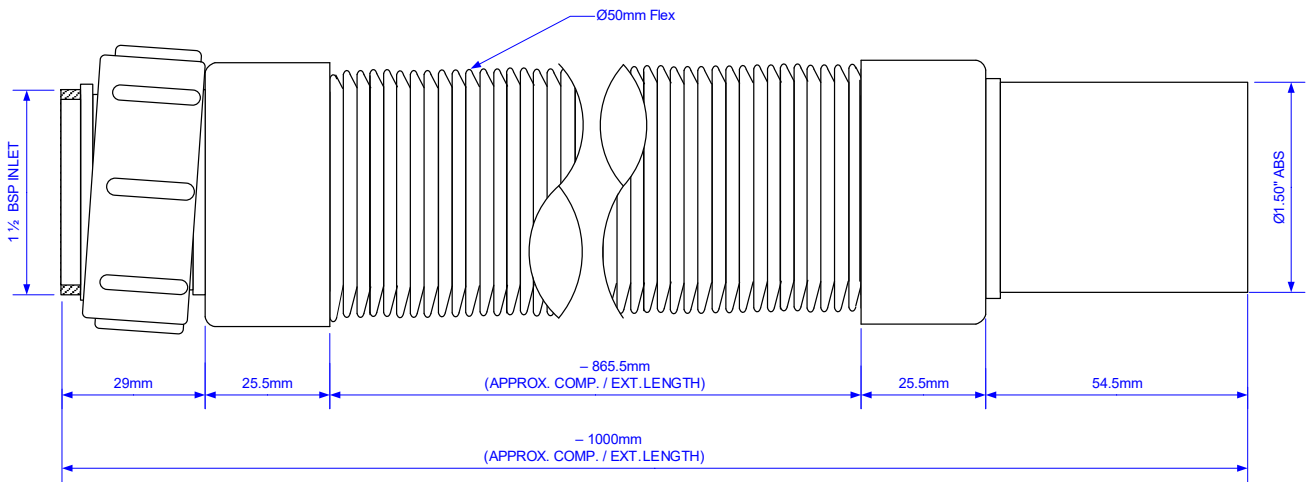
**5. Test results Summary:**

Products meet all the stated requirements in this report in accordance with the stated product standard or procedure as noted in the table below.

CTITERIA	REMARKS
Appearance Requirements	Requirements fulfilled as per BS EN 1451-1: 2017
Dimensional Requirements	Requirements fulfilled as per BS EN 1451-1: 2017
Water Tightness	Requirements fulfilled as per BS EN 274-2: 2002
Temperature Cycle Test	Requirements fulfilled as per BS EN 274-2: 2002

**Code:**

**FLXCCS1A**



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12/11/10

Drawing verified  
correct as of:

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Ross Kennedy	24/09/2020 M.GMR	FLXCCS1A.VSD
SCALE	DATE	
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INITIAL TYPE TESTING	
Product Code	WC-CON8E

**1. Scope Requirements:**

Wc connectors designed to connect horizontal outlet WC pans. Product drawings are appended.

**2. Test Standard:**

Tests carried out in accordance with the following standard:

BS EN 5627: 1984: Plastics connectors for use with horizontal vitreous china WC pans

**3. Testing Requirements:**

**Appearance Requirements** in accordance with BS EN 5627: 1984 – internal and external surfaces of the connectors are smooth, clean and free from grooving, blistering and any other surface defect likely to impair their performance.

**Dimensional Requirements** in accordance with BS EN 33: 2019 – fittings conform to dimensional requirements specified.

**Water Tightness** in accordance with BS EN 5627: 1984 – fittings subjected to a pressure of 0.1 bar for 5 minutes. No leaks were noted.

**Air Tightness** in accordance with BS EN 5627: 1984 - fittings subjected to a pressure of 0.005bar for 5 minutes. No leaks were noted.

**Elevated Temperature Cycling Test** in accordance with BS EN 274-1:2002 – fittings subjected to the following schedule for 1500 cycles:

(30 ± 0.5) l of water at (93 ± 2) °C for 1 minute

Rest and drain for 1 minute

(30 ± 0.5) l of water at (15 ± 5) °C for 1 minute

Rest and drain for 1 minute

Following the cycle test, the fittings were tested for water tightness as above. No leaks were noted.

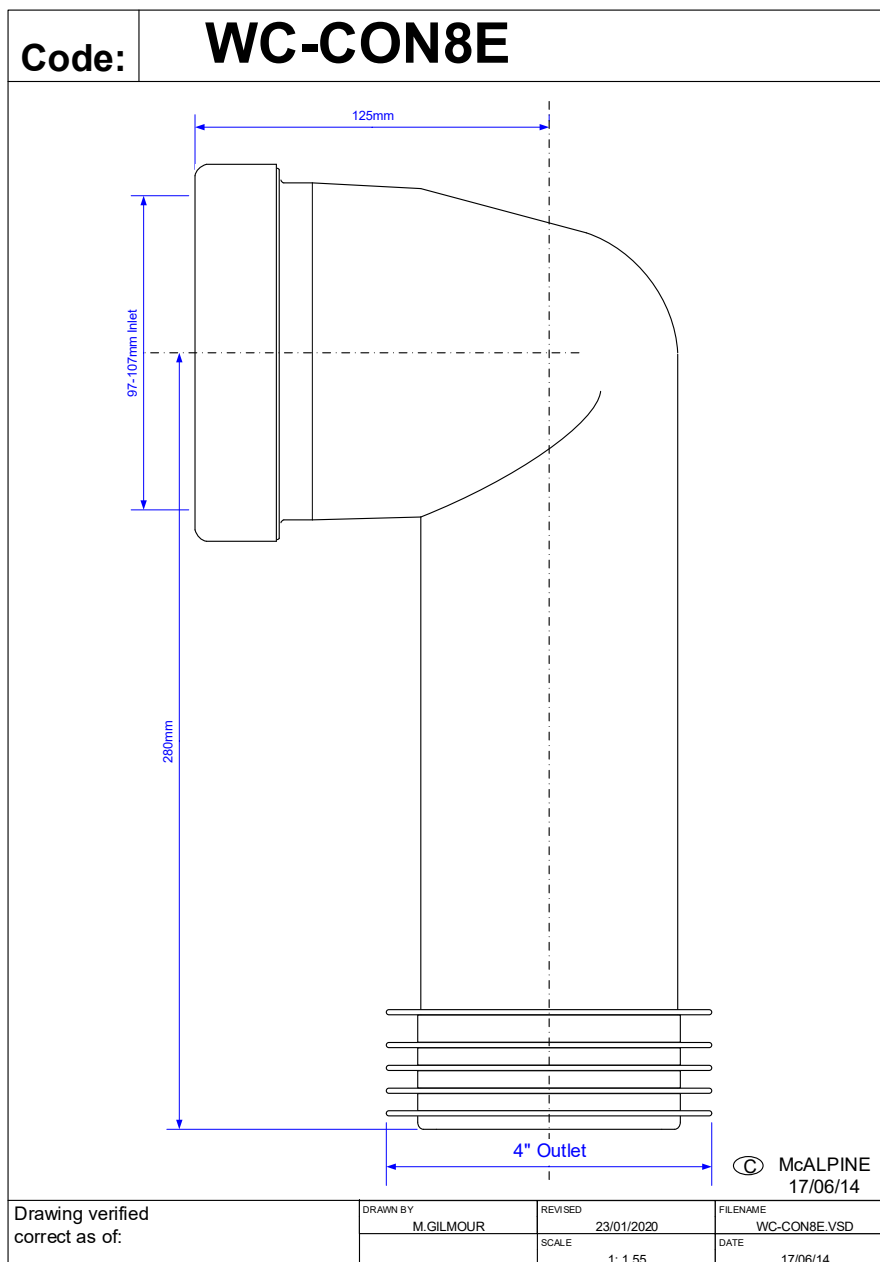
**4. Quality Control:**

Factory Production Control is carried out as per BS EN 5627: 1984

**5. Test results Summary:**

Products meets all the stated requirements in this report in accordance with the stated product standard or procedure as noted in the table below.

CTITERIA	REMARKS
Appearance Requirements	Requirements fulfilled as per BS EN 5627: 1984
Dimensional Requirements	Requirements fulfilled as per BS EN 33: 2019
Water Tightness	Requirements fulfilled as per BS EN 5627: 1984
Air tightness	Requirements fulfilled as per BS EN 5627: 1984
Temperature Cycle Test	Requirements fulfilled as per BS EN 274-1:2002





INITIAL TYPE TESTING	
Product Code	WV-1-A

**1. Scope Requirements:**

McAlpine Self-Closing Waste Valve.

**2. Test Standard:**

Tests carried out in accordance with the following standard:  
BS EN 681:2000, EN 274:2002, BS EN 12380:2002.

**3. Testing Requirements:**

**Appearance Requirements** in accordance with EN 274:2002 – when viewed without magnification, the internal & external surfaces of the waste fittings shall be smooth, free from grooving, blistering or any other surface defects likely to impair their functioning.

**Material Requirements** in accordance with EN 274:2002- products made from materials which withstand intermittent contact with domestic waste water with a temperature range from 20°C to 95°C when tested in accordance with clause 3.

**Hydraulic Requirements** (flow rate) in accordance with EN 274:2002- when tested the trap provides a flow rate in excess of the minimum requirement for that stated in clause 5.

**Dimensional Requirements** in accordance with EN 274:2002 – fittings conform to dimensional requirements specified.

**Air Tightness Requirements** in accordance with BS EN 12380:2002 - product subjected to a pressure of 30pa, 500pa & 10,000pa for 5 minutes. No drop-in pressure was noted.

**Leak Tightness Requirements** in accordance with EN 274:2002 – product was filled with water and an air pressure of 10,000pa was applied for 5 minutes. No leaks were noted.

**4. Quality Control:**

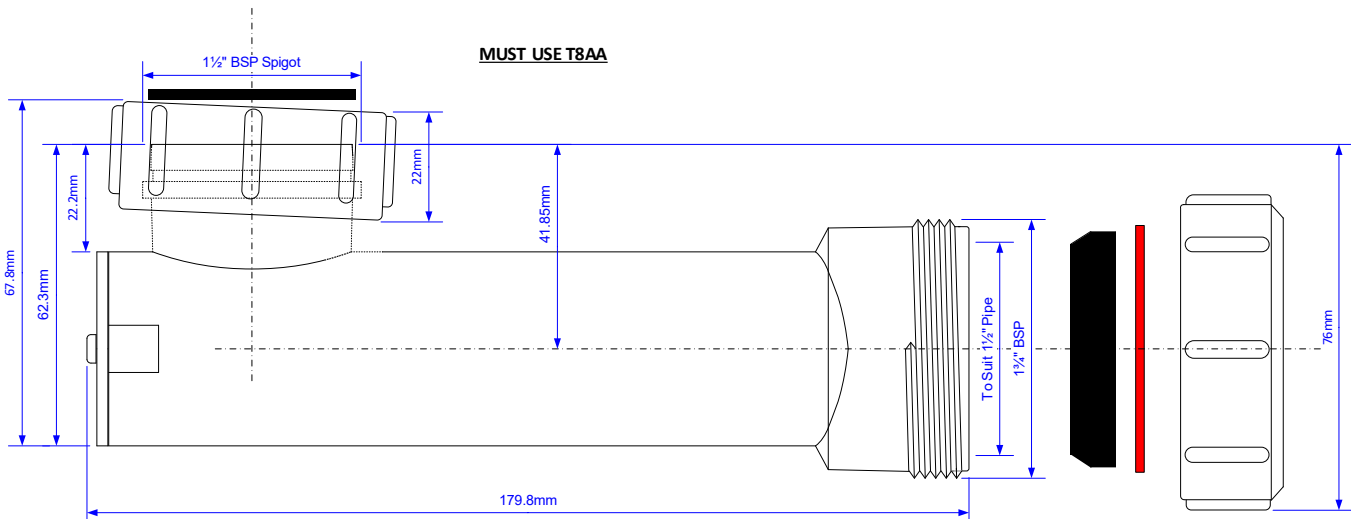
Factory Production Control is carried out as per EN 274:2002 - 3

**5. Test results Summary:**

Products meets all the stated requirements in this report in accordance with the stated product standard or procedure as noted in the table below.

CTITERIA	REMARKS
Appearance Requirements	Requirements fulfilled as per EN 274:2002
Material Requirements	Requirements fulfilled as per EN 274:2002 & BS EN 681:2000
Hydraulic Requirements	Requirements fulfilled as per EN 274:2002
Dimensional Requirements	Requirements fulfilled as per EN 274:2002
Air Tightness Requirements	Requirements fulfilled as per BS EN 12380:2002
Leak Tightness Requirements	Requirements fulfilled as per EN 274:2002

<b>Code:</b>	<b>WV-1-A</b>
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**MUST USE T8AA**

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10/03/2021

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## Appendix 2 – Examples of Declarations of Performance

Document type	Revision	Revision date
Product Technical Specification & BPIR McAlpine traps, waste pipe and fittings	v 1	30 October 2023





## DECLARATION OF PERFORMANCE

In compliance with EU Regulation (EU): No 305/2011 of March 2011, Construction Product Regulation (CPR):

**Unique identification code of the product-type:**

McAlpine flexible waste fitting- FLXCCS1A

**Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification:**

fittings offer complete flexibility for any required angle or offset for domestic waste water.

**Name and Contact address of Supplier:**

McAlpine & Co. Ltd.  
45 Kelvin Avenue  
Hillington  
Glasgow G52 4LF

**System or systems of assessment and verification of constancy of performance of the construction product as set out in annex V:**

System 4.

**Covered by harmonised standard:**

BS EN 274: 2002  
BS EN 1451-1: 2017

**Declared performances:**

Essential characteristics	Performance	Harmonised technical specification
Materials	Product withstands intermittent contact with domestic wastewater with a temperature range between 20°C and 95°C	BS EN 274:2002  BS EN 1451-1: 2017
Dimensions	Product meets all dimensional criteria.	
Flow rate (tested at 120mm head of water) Flow rate (tested at 300mm head of water)	Normal & inverted flex - Exceeds flow rate of 48l/min  Normal & inverted flex Exceeds flow rate of 48l/min	

The performance of the product identified is in conformity with declared performances.  
This declaration of performance is issued under the sole responsibility of the supplier.

Steven Scott

General Manager  
McAlpine & Co. Ltd.  
Date: 23/08/2021



## DECLARATION OF PERFORMANCE

In compliance with EU Regulation (EU): No 305/2011 of March 2011, Construction Product Regulation (CPR):

**Unique identification code of the product-type:**

McAlpine WC connector – WC-F23R

**Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification:**

Flexible WC connector for connecting WC pan to soil pipe.

**Name and Contact address of Supplier:**

McAlpine & Co. Ltd.  
45 Kelvin Avenue  
Hillington  
Glasgow G52 4LF

**System or systems of assessment and verification of constancy of performance of the construction product as set out in annex V:**

System 4.

**Covered by harmonised standard:**

DIN 1389:2015-12, BS EN 33:2019, BS5627:1984, BS EN 681-1:1996, BS EN 681-2:2000 & BS EN 274-1:2002.

**Declared performances:**

Essential characteristics	Performance	Harmonised technical specification
Materials	Seals-materials and finished seal requirements are in compliance with EN 681	BS EN 681-1:1996 BS EN 681-2:2000
Connecting dimensions	Product is manufactured to comply with connecting dimensions given in BS EN 33:2019	BS EN 33:2019
Water tightness	When tested in accordance with appendix E of BS5627:1984, the connectors withstand a pressure of 0.1 bar over a period of 5 minutes with no visible leakage.	BS5627:1984
Air tightness	When tested in accordance with appendix F of BS5627:1984, the connectors withstand an air pressure of 0.005bar for 5 minutes when assembled without a deflection.	BS5627:1984
Water & air tightness under deflection	Product withstands the same pressure tests above when axially deflected 5° in any direction.	BS 5627:1984
Temperature Cycling Test	Product subjected to the following elevated temperature schedule for 1500 cycles.	BS EN 274-1:2002

The performance of the product identified is in conformity with declared performances.  
This declaration of performance is issued under the sole responsibility of the supplier.

Steven Scott  
General Manager

McAlpine & Co. Ltd.  
Date: 25/05/2023



## DECLARATION OF PERFORMANCE

In compliance with EU Regulation (EU): No 305/2011 of March 2011, Construction Product Regulation (CPR):

**Unique identification code of the product-type:**

McAlpine TPE Adapter **FLEXCONN-4032**

**Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification:**

TPE adapter seal for plumbing fittings.

**Name and Contact address of Supplier:**

McAlpine & Co. Ltd.  
45 Kelvin Avenue  
Hillington  
Glasgow G52 4LF

**System or systems of assessment and verification of constancy of performance of the construction product as set out in annex V:**

System 4.

**Covered by standard:**

BS EN 681-2:2000

**Declared performances:**

Essential characteristics	Performance	Technical specification
Dimensional tolerance	Pass	BS EN 681-2:2000
Physical property requirements	Conforms to specification in table 2	

The performance of the product identified is in conformity with declared performances.  
This declaration of performance is issued under the sole responsibility of the supplier.

John Gordon

General Manager  
McAlpine & Co. Ltd.  
Date : 31/1/22

## Appendix 3 – WaterMark certifications

WM 020035 – AS/NZS 4936:2002 Air admittance valves  
[WM Certificate | WaterMark \(abcb.gov.au\)](#) for WM 020035

WM 022081 – AS 2887:1993 Plastic waste fittings  
[WM Certificate | WaterMark \(abcb.gov.au\)](#) for WM 022081

WM 022371 – WMTS 517:2016 Offset Pan Connector  
[WM Certificate | WaterMark \(abcb.gov.au\)](#) for WM 022371

WM 022630 – WMTS 047:2016 Self-sealing devices  
[WM Certificate | WaterMark \(abcb.gov.au\)](#) for WM 022630

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# Certificate # 020035

Active

Certifier

ApprovalMark International Pty Ltd

Specification

AS/NZS 4936:2002

Initial Certification Date

1 Jan 2013

Current Certification Date

17 Nov 2022

Current Expiry Date

27 May 2027

Licence Holder

McAlpine & Co Ltd

<b>Model ID</b>	<b>Brand Name</b>	<b>Model Name</b>	<b>Status</b>
<u>C10AV</u>	McAlpine	Ventapipe	Active
<u>C10V</u>	McAlpine	Ventapipe	Active
<u>SP40AV</u>	McAlpine	Ventapipe	Active
<u>SP50AV</u>	McAlpine	Ventapipe	Active
<u>TP10V</u>	McAlpine	Ventapipe	Active
<u>VP100XXX</u>	McAlpine	Ventapipe	Active
<u>VP2</u>	McAlpine	Ventapipe	Active
<u>VP50XXXX</u>	McAlpine	Ventapipe	Active
<u>VPSF-40/50</u>	McAlpine	Ventapipe	Active
<u>VPSFN-1.5-2.0</u>	McAlpine	Ventapipe	Active

# Certificate # 022081

Active

Certifier

ApprovalMark International Pty Ltd

Specification

AS 2887:1993

Initial Certification Date

27 Jul 2011

Current Certification Date

23 Aug 2022

Current Expiry Date

23 Aug 2027

Licence Holder

McAlpine & Co Ltd

<b>Model ID</b>	<b>Brand Name</b>	<b>Model Name</b>	<b>Status</b>
<u>6070</u>	McAlpine	Abey Spacesaver kit 6070	Cancelled
<u>6072</u>	McAlpine	Abey Spacesaver kit 6072	Cancelled
<u>6074</u>	McAlpine	Abey Spacesaver kit 6074	Cancelled
<u>6075</u>	McAlpine	Abey Spacesaver kit 6075	Cancelled
<u>6077</u>	McAlpine	Abey Spacesaver kit 6077	Cancelled
<u>CBWF70CB</u>	McAlpine	Pop-up Bath waste	Cancelled
<u>CD1200- B</u>	McAlpine	Channel Drain	Active
<u>CD1200- B- NT</u>	McAlpine	Channel Drain	Active
<u>CD1200-B</u>	McAlpine	McAlpine	Cancelled
<u>CD1200-B-NT</u>	McAlpine	McAlpine	Cancelled
<u>CD600- B</u>	McAlpine	Channel Drain	Active
<u>CD600-B</u>	McAlpine	McAlpine	Cancelled
<u>CD600-O- B- NT</u>	McAlpine	Channel Drain	Active
<u>CD600-O-B-NT</u>	McAlpine	McAlpine	Cancelled
<u>CD700- B</u>	McAlpine	Channel Drain	Active
<u>CD700-B</u>	McAlpine	McAlpine	Cancelled
<u>CD700-O- B- NT</u>	McAlpine	Channel Drain	Active
<u>CD700-O-B-NT</u>	McAlpine	McAlpine	Cancelled

# Certificate # 022371

Active

Certifier

ApprovalMark International Pty Ltd

Specification

WMTS-517:2016

Initial Certification Date

3 Aug 2016

Current Certification Date

7 Nov 2022

Current Expiry Date

7 Nov 2027

Licence Holder

McAlpine & Co Ltd

<b>Model ID</b>	<b>Brand Name</b>	<b>Model Name</b>	<b>Status</b>
<u>WC-CON4</u>	McAlpine	20mm Off-Set Pan Connector	Active
<u>WC-CON4A</u>	McAlpine	40mm Off-Set Pan Connector	Active
<u>WC-CONxx</u>	McAlpine	WC Connector	Cancelled

# Certificate # 022630

Active

Certifier

ApprovalMark International Pty Ltd

Specification

WMTS-047:2016

Initial Certification Date

18 Aug 2017

Current Certification Date

7 Nov 2022

Current Expiry Date

7 Nov 2027

Licence Holder

McAlpine & Co Ltd

<b>Model ID</b>	<b>Brand Name</b>	<b>Model Name</b>	<b>Status</b>
<u>FGT125-SV</u>	McAlpine	Floor tile drain waste	Active
<u>FGT125-SV-110-CB</u>	McAlpine	Floor tile drain waste	Active
<u>FGT150-SV-110</u>	McAlpine	Floor Tile, Drain Waste	Cancelled
<u>FGT150-SV-110-CB</u>	McAlpine	Floor tile drain waste	Active
<u>FGT150-SV-110S</u>	McAlpine	Floor tile drain waste	Active
<u>MACVALVE-2</u>	McAlpine	MACVALVE	Cancelled
<u>MACVALVE-20</u>	McAlpine	MACVALVE	Cancelled
<u>MACVALVE-5</u>	McAlpine	MACVALVE	Cancelled
<u>MACVALVExxx</u>	McAlpine	MACVALVE	Active
<u>WV-1-A</u>	McAlpine	Space Saver Waste	Active