

Hamilton City Development Manual	
Volume 3 : Standard Technical Specifications	Part 4 — Stormwater & Wastewater
Authorised by : City Waters Unit Manager	Section A Page 1 of 4

SECTION A : ACCEPTABLE FITTINGS AND MATERIALS

1.0 SCOPE

This specification covers the list of materials acceptable for use within the Hamilton City Council stormwater and wastewater network, and covers materials (up to the boundary) which Council has, or will, assume responsibility for. Fittings not in accordance with this list will be rejected unless written approval from Council is obtained prior to installation. Rejected products and materials will be subject to removal at the Contractor or Subdivider's cost.

This list of Acceptable Fittings and Materials will be updated in July and December each year or at other times when four or more acceptable products need to be incorporated into the list.

All applications to the Acceptable Fittings and Materials list must be accompanied by the pro-forma Volume 4: Quality Checklists & Appendices Part 9 Appendix 6: Application for Acceptance of Water or Drainage Product for Use in the Hamilton City Council Water Supply Area or Drainage District.

Requirements for acceptance of materials are as follows:

- conforms to appropriate New Zealand, Australian or British standards with evidence of the licence number issued;
- manufacturer operates to an acceptable quality assurance standard;
- details of composition, dimensions, specific use and design life are supplied by the manufacturer;
- details of acceptance by other New Zealand local authorities
- details are supplied by the manufacturer on how the product should be installed;
- the product is acceptable to HCC (taking into account such factors as compatibility with other approved products, ease of use, availability of supply, etc.)

Where there is no standard, the manufacturer will be required to supply copies of their quality assurance procedures and producer statements to support their performance and composition claims for the products concerned.

Completed applications and supporting information should be addressed to:

The Manager
City Waters Unit
Hamilton City Council
Private Bag 3010
Hamilton

Council reserves the right to refuse any material or fitting from the Acceptable Fittings and Materials list for any reason and at any time. In such circumstances, Council will provide written notification, stating reasons why the material or fitting has been refused or removed from the Acceptable Fittings and Materials list.

1.1 For pipe requirements in participating districts refer to Volume 5 Part 4.

Hamilton City Development Manual	
Volume 3 : Standard Technical Specifications	Part 4 — Stormwater & Wastewater
Authorised by : City Waters Unit Manager	Section A Page 2 of 4

2.0 PIPE MATERIALS

Manufacturer

2.1 Centrifugally Spun Manufactured Concrete Pipes

(manufactured to AS/NZS 4058:2007)

Note: pipes intended for wastewater applications shall be manufactured using a sulphate resistant concrete mix and, in addition to the standard thickness of concrete mix around steel reinforcing, the pipes shall have a 25 mm thick internal sacrificial lining of concrete mix.

Rubber Ring jointed Class 2, 3 & 4
225mm diameter — 2500mm diameter

Humes (Licence #2618)
Humes (Licence #2586)

Flush Jointed Class S 1, 2 & 3
600mm diameter — 2500mm diameter

Humes (Licence # 2618)
Hynds (Licence # 2586)

Skid Ring Joint Class 2, 3 & 4 600mm, 675mm-
1200mm & 2100mm diameter

Hynds (Licence # 2586)

Manufacturer

2.2 Roller Compacted Manufactured Concrete Pipes accepted for Stormwater only

Rubber Ring jointed, Class 2, 3 & 4 manufactured to AS/NZS 4058:2007. 225mm and 600mm diameter

Humes 'Titan' brand
(Licence # 2618)

2.3 Manhole Risers

1050 dia — 2500 dia 300mm — 2400mm

Humes
Hynds

2.4 Manhole Lid and Frame

Cast Iron Manhole Lid and Frame

AS 3996-2006 compliant
Class D 600 diameter manhole lid & frame

Hygrade Products Ltd
(BV licence # 2546)
Surecast Metals Ltd
(Licence # SMK02728)

Ductile Iron lid and Frame

AS 3996 — 2006 compliant
Class D 600 diameter manhole lid and frame

Webforge (supplied by Humes)
(DCC6DWISRHZ)

AS 3996 — 2006 compliant
Class D 600 diameter manhole lid and frame with
Spigot Frame

Webforge (supplied by Humes)
DCC6DWISRSP)

Manhllle Snapping Riser: 50mm, 75mm and 100mm

Webforge (supplied by Humes)

2.5 Steps

Stainless steel

Costavic

MWT253 Plastic encapsulated Stainless Steel
Safety Step

Nextep Miyama
(Licence # JP-JQA-QM6570)

2.6 Manhole Channel Forms

Hamilton City Development Manual	
Volume 3 : Standard Technical Specifications	Part 4 — Stormwater & Wastewater
Authorised by : City Waters Unit Manager	Section A Page 3 of 4

EEZI Liner (polyethylene U shaped channel form)	NZ Channel Forms Ltd
Earthenware	Refer 2.8 of this Clause
2.7 PVC Pipe	
2.7.1 Wastewater	
AS/NZS 1260:2002 Class SN16 RRJ	Marley (Licence # 2365)
100mm dia — 375mm dia and associated fittings	Iplex (Licence # SMK P20184)
	Keyplas (Licence # 2622)
	RX Plastics SEWER-LOCK (Licence #006)
2.7.2 Stormwater	
AS/NZS 1254:2002 Class Sn16N8 RRJ	Marley(Licence # 2365)
10050mm dia — 300225mm dia and associated fittings	Iplex (Licence # SMK P20126)
	Keyplas (Licence # 2622)
	RX Plastics STORM-LOCK (Licence #003)
100mm diameter in private non-trafficked areas are to be SN6 and in private trafficked areas and all public areas are to be SN16	Marley Iplex Licence #SMK P20126
2.8 Ceramic Pipe	
AS1741:1991	Naylor (supplied by Humes - Kiterack 20173)
Vitrified Clay Pipes and Fittings with Flexible Joints — Sewer Quality or BS EN2 95	Keramo Steinzeug (supplied by Hynds — Lic # KM22656)
100mm dia — 300mm dia pipe and associated fittings	Hepworth (supplied by Mico — Licence # KM14092)
	Clarks Potteries (Licence # 010151)
2.9 Rubber Sleeves	
100mm dia to 300mm dia.	Skellerup Clarks Potteries
2.10 Ductile Iron Kerb Outlets	
90 degree and 45 degree ductile iron kerb outlets and associated rubber couple fitting.	Milson Foundry Ltd
2.11 Ductile Iron Tempo Hinged Kerb Gully Grate and Frame	
EN124/AS3996	Hygrade Products Ltd
Use of this this product is generally for cycleways and requires HCC approval.	Uber Series (Licence #NF110- L47)
2.12 Ductile Iron Hydro Stormwater Grate and Frame	
AS/NZS 53996 Class D	Hygrade Products Ltd.
Use of this product requires HCC approval.	Uber Series (Licence #NF110- L47)
2.13 PKS & Profix (PFX) Polyethylene (PE100) Profile (PR) Pipe	
	Frank PKS NZ Limited

Hamilton City Development Manual	
Volume 3 : Standard Technical Specifications	Part 4 — Stormwater & Wastewater
Authorised by : City Waters Unit Manager	Section A Page 4 of 4

AS/NZS ISO 9001:2008, AS/NZS 5065:2005,
AS/NZS 4131:2003
Consideration will only be given to pipe diameters
greater than DN 600mm. Use of this pipe and
associated fittings requires HCC approval.