

Fernco Australia Pty Ltd

PRODUCT APPRAISAL REPORT No 1829 Issue 2

Fernco Metal Banded Flexible Couplings

AS/NZS 4327: 1995 Metal-banded flexible couplings for low

pressure applications

Issue 1 Published: 2 September 2019 Issue 2 Published: 9 February 2024

Document History

The following information indicates the changes made to this document.

Date	Version
9 August 2019	Client Review
30 August 2019	Peer Review
2 September 2019	Publication
9 February 2024	Issue 2 Client Review
9 February 2024	Issue 2 Publication

Peer Reviewers

Name/Title	Organisation	Date
Product Appraisal Technical Advisory Group	WSAA	30 August 2019
WSAA Expert Panel	WSAA	30 August 2019
Peter Pittard, WSAA Consultant	WSAA	2 August 2019
Carl Radford, Product Appraisal Manager	WSAA	2 September 2019
Peter Pittard, WSAA Consultant	WSAA	9 February 2024
Carl Radford, Product Appraisal Manager	WSAA	9 February 2024

Overview of WSAA

The Water Services Association of Australia (WSAA) is the peak industry body representing the urban water industry. Our members provide water and sewerage services to over 20 million customers in Australia and New Zealand and many of Australia's largest industrial and commercial enterprises.

Based around our vision of 'customer driven, enriching life', WSAA facilitates collaboration, knowledge sharing, networking and cooperation within the urban water industry. We are proud of the collegiate attitude of our members which has led to industry-wide approaches to national water issues.

WSAA can demonstrate success in the standardisation of industry performance monitoring and benchmarking, as well as many research outcomes of national significance. The WSAA Executive retains strong links with policy makers and legislative bodies and their influencers, to monitor emerging issues of importance to the urban water industry.

WSAA was formed in 1995 as a non-profit organisation to foster the exchange of information between industry, government and the community, and to promote sustainable water resource management.

The urban water industry is committed to anchoring its services to customers' values, and to enrich communities where water services have broad economic, environmental and social values. In line with this our main activities focus on four areas:

- 1. influencing national and state policies on the provision of urban water services and sustainable water resource management
- 2. promoting debate on environmentally sustainable development and management of water resources and the community health requirements of public water supplies
- 3. improving industry performance and establishing benchmarks and industry leading practices for water service processes; and
- 4. fostering the exchange of information on education, training, research, water and wastewater management and treatment and other matters of common interest.

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1 EXECUTIVE SUMMARY

Fernco Australia Pty Ltd is a member of the worldwide Fernco group of companies which manufacture and supply an extensive range of flexible couplings for repair and maintenance of non-pressure pipelines in sectors including highways, housing, utilities and construction.

The couplings are manufactured by Fernco Limited in the UK, previously Flexseal Couplings Ltd.

This appraisal is for a range of Fernco standard and extra wide metal-banded flexible couplings with metal shear rings, manufactured to AS/NZS 4327:1995 *Metal-banded flexible couplings for low pressure applications.*

This Issue 2 is to amend the brand of couplings from Flexseal to Fernco. No change to the product has occurred.

Metal-banded flexible couplings are designed for joining or repairing pipes of various material with the same or similar nominal internal diameters in low-pressure sewerage or drainage pipeline systems. Where the difference between the inside diameter of the coupling and the outside diameter of the pipe to be joined is greater than 16mm, an appropriate adapter bush is required to facilitate leak proof jointing. Fernco product literature provides details of available adapter bushes. See Appendix A

The range of nominal diameters covered by this Appraisal is DN 100 to DN 600 and compatible pipe outside diameter ranges are detailed in Section 3.

Fernco metal-banded couplings are supplied with Grade 316 stainless steel metal bands, shear rings and fasteners. The sleeve and adapter bushes are manufactured from EPDM rubber.

The couplings are not suitable for drinking water applications.

Fernco metal-banded flexible couplings have ISO Type 5 product certification to AS/NZS 4327:1995.

Fernco UK has a quality management system to ISO 9001:2015.

This Appraisal has determined that Fernco metal-banded flexible couplings as detailed in Section 3, comply with the requirements of WSA PS 235 *Couplings, metal-banded flexible, for non-pressure application-sewer* and are considered as 'fit for purpose'.

1.1 Recommendation

It is recommended that WSAA members, subject to any specific requirements of the member, accept or authorise the Fernco metal banded flexible couplings, as detailed in this report, for joining low pressure sewerage pipelines provided they are installed in accordance with WSAA Codes and the manufacturers requirements, where specified.

2 THE APPLICANT

Fernco Australia Pty Ltd is a member of the worldwide Fernco group of companies which manufacture and supply an extensive range of flexible couplings for repair and maintenance of non-pressure pipelines in sectors including highways, housing, utilities and construction.

The Fernco group of companies operates in 8 countries worldwide, including Fernco Australia Pty Ltd, with distribution partners in many more. Fernco head office is located in Michigan, USA.

Fernco Australia Pty Ltd distributes a full range of products for plumbing, sewerage and drainage applications across Australia and New Zealand utilising the Fernco and PlumbQwik brands.

2.1 THE MANUFACTURER

Flexseal Couplings Ltd was established in Sheffield UK in 1988 as a designer and manufacturer of flexible couplings for the repair of sewer and drainage systems. The company was acquired by Fernco in 2002 and grew to be a manufacturer of the most extensive range of flexible couplings in the world.

The company name and product brand names were amended to Fernco in 2023.

3 THE PRODUCT

3.1 General

Fernco standard and extra wide metal-banded flexible couplings are designed for joining or repairing pipes of various materials with the same or similar nominal internal diameters in low pressure sewerage or drainage pipeline systems.

Fernco metal-banded couplings are supplied with Grade 316 stainless steel metal bands, shear rings and fasteners. The sleeve and adapter bushes are manufactured from EPDM rubber.

The incorporation of a Grade 316 Stainless Steel shear band on the flexible coupling counters the effect of soil or other superimposed load, to ensure rigidity and integrity of the joint.

Each coupling has a designed compatible pipe OD range and is suitable for connection to a wide range of pipe materials including PVC, PE, Vitrified Clay, Asbestos Cement, concrete, galvanised iron and cast or ductile iron.

Where the difference between the inside diameter of the coupling and the outside diameter of the pipe to be joined is greater than 16mm an appropriate adapter bush is required to facilitate leak proof jointing.

Fabricated adaptor bushes are generally cut from an EPDM rubber strip and formed into a ring using a vulcanised joint. The bushes are available with six different thicknesses (4, 8, 12, 16, 24 or 32mm) to accommodate multiple OD variations. Bushes may also be moulded where the OD differences are significant.

Fernco product literature provides details of their range of adapter bushes. See Appendix A. It is advisable to consult with Fernco when ordering bushes to ensure compatibility with specific pipe OD's.

The couplings are not suitable for use with drinking water.



FIGURE 1 METAL-BANDED FLEXIBLE COUPLING

The available coupling range includes sizes from DN 100 to DN 600 in both standard and extra wide versions. Extra wide couplings are provided for applications where

the pipe end to be joined is not square or where an unusually large gap has to be bridged between the adjoining pipes.

The compatible pipe outside diameters for each coupling is given in Table 1.

TABLE 1
FERNCO METAL - BANDED FLEXIBLE COUPLING RANGE

Part No	Pipe OD Range mm		Pipe OD Range mm Width mm	
(add w for extra wide)	Min	Max	Standard	Extra Wide
SC115	100	115	120	-
SC120	105	120	120	-
SC137	122	137	120	-
SC150	125	150	136	-
SC165	140	165	136	-
SC175	150	175	136	-
SC185	160	185	136	-
SC200	175	200	150	-
SC215	190	215	150	-
SC225	200	225	150	300
SC250	225	250	150	300
SC265	240	265	150	300
SC275	250	275	150	300
SC290	265	290	150	300
SC310	285	310	190	300
SC320	295	320	190	300
SC335	310	335	190	300
SC345	320	345	190	300
SC360	335	360	190	300
SC385	360	385	190	300
SC410	385	410	190	300
SC425	400	425	190	300
SC430	405	430	190	300
SC445	420	445	190	300
SC465	440	465	190	300
SC475	450	475	190	300
SC490	465	490	190	300
SC510	485	510	190	300
SC525	500	525	190	300
SC540	515	540	190	300
SC550	525	550	190	300
SC560	535	560	190	300
SC580	555	580	190	300
SC600	575	600	190	300

4 SCOPE OF THE APPRAISAL

The scope of this appraisal covers Fernco DN 100 to DN 600 standard and extra wide metal-banded flexible couplings as specified in Section 3 and included in the ISO Type 5 OceanaMark Product Schedule in Appendix B.

5 APPRAISAL CRITERIA

5.1 Quality Assurance Requirements

The WSAA Product Appraisal Technical Advisory Group accepts metal-banded flexible couplings manufactured in compliance with AS/NZS 4327:1995 *Metal-banded flexible couplings for low pressure applications* and duly certified by means of an ISO Type 5 product certification scheme undertaken by a JAS-ANZ accredited Conformity Assessment Body (CAB) or by an International accreditation system recognised by JAS-ANZ.

The manufacturer is generally expected to have a production management and control system that has been duly accredited in accordance with AS/NZS ISO 9001 as a prerequisite to undergoing a product certification audit.

The ISO Type 5 Product Certification Scheme shall meet the criteria described in WSA TN-08.

5.2 Performance Requirements

The Fernco metal-banded flexible couplings have been appraised for compliance with AS/NZS 4327:1995 *Metal-banded flexible couplings for low pressure applications.*

Appraisal criteria are also determined by the WSAA Product Appraisal Technical Advisory Group and regularly reviewed to ensure that the criteria reflect the requirements of WSAA members.

The following Product Specification is also relevant to this application:

WSA PS 235 Couplings, metal-banded flexible, for non-pressure application-sewer

A copy of the Product Specification is available at the following link:

https://www.wsaa.asn.au/shop/product/60961

6 COMPLIANCE WITH APPRAISAL CRITERIA

6.1 Compliance with Quality Assurance Requirements

Fernco has submitted the following quality certificates

- ISO 9001:2015 Certificate of Registration No. FM 91289 issued to Fernco Limited by BSI.
- AS/NZS 4327:1995 ISO Type 5 OceanaMark Product Certification Licence No. OMK22225 issued to Fernco Australia Pty Ltd by IAPMO R & T Oceana
- BS EN 681-1 ISO Type 5 Kitemark Product Certification Licence for the supplier of the EPDM component by BSI.

Note: Fernco has requested that the EPDM supplier identification remains "commercial-in-confidence".

Copies of the Quality Assurance and Product Certification licences have been included in Appendix B and are also available from WSAA.

6.2 Compliance with Performance Requirements

6.2.1 Material Requirements

AS/NZS 4327 provides allowable material requirements for the coupling components.

6.2.1.1 Metal band, shear ring and fasteners

The coupling metal band, shear ring and fasteners are Grade 316 in accordance with ASTM A240. Material test certificates have been supplied to confirm compliance to the specification.

6.2.1.2 Sleeve and adapter bush

The coupling sleeves and adapter bushes are manufactured from EPDM, complying with AS 1646/EN681-1.

The supplier of the EPDM components has an ISO Type 5 KiteMark certification for BS EN 81-1 *Elastomeric seals - Material requirements for pipe joint seals used in water and drainage applications.*

6.2.1.3 Contamination of Drinking Water

The couplings are not suitable for use with drinking water applications.

6.2.2 Performance Tests

Fernco has submitted copies of Type Test reports to demonstrate conformance to the requirements of AS/NZS 4327.

Australian National Testing Laboratories Pty Ltd (NATA Accreditation No 15698) and Queensland Testing Laboratory Pty Ltd (NATA Accreditation No 14783) successfully completed the type tests specified in AS/NZS 4327. Tests for tensile strength, weld strength, watertightness and shear strength were successfully completed on SC125, SC165, SC225, SC320 and SC620 couplings. These tests qualified the range from DN 100 to DN 600 in accordance with AS/NZS 4327 requirements.

7 FITTING INSTRUCTIONS, TRAINING AND INSTALLATION

Metal banded couplings are in common use within the industry and installation training is not considered to be necessary. Recommended bolt tightening torques are provided in the Fernco literature in Appendix A.

8 PRODUCT MARKING

The couplings include the following markings.

- Name of Manufacturer: Fernco
- The product code: e.g. SC275
- Pipe outside diameter range: e.g.250-275
- Type of coupling: Type B
- The number of this standard: AS/NZS 4327
- Specified torque: e.g. 13Nm
- Elastomeric material: EPDM
- Metal material: Stainless Steel Grade 316
- OceanaMark

See Figure 2 for an example of the marking.



FIGURE 2 EXAMPLE OF MARKING

9 PACKAGING AND TRANSPORTATION

The couplings are packed in cartons for transportation. Multiple cartons are packed onto a pallet and shrink wrapped.

10 PRODUCT WARRANTY

The products are covered by the normal commercial and legal requirements of the *Competition and Consumer Act 2010 (Cth)*, which covers manufacture to the relevant standard, and details of Fernco's warranty is included in their terms and conditions of sale.

11 WATER AGENCY EXPERIENCE WITH THE PRODUCT OR FIELD TESTING REPORT

Metal-banded flexible couplings are considered standard products and installation trials were not required as part of this Appraisal.

12 OUTCOMES OF EXPERT PANEL REVIEW

No issues were raised.

13 FUTURE WORKS

No future works have been identified.

14 DISCLAIMER

This Product Appraisal Report (Report) is issued by the Water Services Association of Australia Limited on the understanding that:

This Report applies to the product(s) as submitted. Any changes to the product(s) either minor or major shall void this Report.

To maintain the recommendations of this Report any such changes shall be detailed and notified to the Product Appraisal Manager for consideration and review of the Report and appropriate action. Appraisals and their recommendations will be the subject of continuous review dependent upon the satisfactory performance of products.

WSAA reserves the right to undertake random audits of product manufacture and installation. Where products fail to maintain appraised performance requirements the appraisal and its recommendations may be modified and reissued. Appraisal reports will be reviewed and reissued at regular intervals not exceeding five (5) years.

The following information explains a number of very important limits on your ability to rely on the information in this Report. Please read it carefully and take it into account when considering the contents of this Report.

Any enquiries regarding this report should be directed to the Program Manager, Carl Radford, email carl.radford@wsaa.asn.au.

14.1 Issue of Report

This Report has been published and/or prepared by the Water Services Association of Australia Limited and nominated Project Manager and peer group of technical specialists (the Publishers).

The Report has been prepared for use within Australia only by technical specialists that have expertise in the function of products such as those appraised in the Report (the Recipients).

By accepting this Report, the Recipient acknowledges and represents to the Publisher(s) and each person involved in the preparation of the Report that the Recipient has understood and accepted the terms of this Disclaimer.

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Recipients should seek independent evidence of any matter which is material to their decisions in connection with an assessment of the Product and consult their own advisers for any technical information required. Any decision to use the Product should take into account the reliability of that independent evidence obtained by the Recipient regarding the Product.

Recipients should also independently verify and assess the appropriateness of any recommendation in the Report, especially given that any recommendation will not take into account a Recipient's particular needs or circumstances.

WSAA has not evaluated the extent of the product liability and professional indemnify insurance that the provider of the product maintains. Recipients should ensure that they evaluate the allocation of liability for product defects and any professional advice obtained in relation to the product or its specification including the requirements for product liability and professional indemnity insurance.

14.3 No Updating

Neither the Publisher(s) nor any person involved in the preparation of this Report [has] [have] any obligation to notify you of any change in the information contained in this Report or of any new information concerning the Publisher(s) or the Product or any other matter.

14.4 No Warranty

The Publisher(s) do[es] not, in any way, warrant that steps have been taken to verify or audit the accuracy or completeness of the information in this Report, or the accuracy, completeness or reasonableness of any recommendation in this Report.

APPENDIX A – PRODUCT LITERATURE



Fernco Shear Banded Couplings

- · Withstands internal pressure of up to 2.5 bar
- · Stainless steel shear band prevents pipe displacement
- · Less excavation compared to replacing a whole length of pipe
- Complies with AS/NZS 4327-1995 - Metal-banded flexible couplings for low-pressure applications
- · WaterMark certified
- · OceanaMark certified
- WSAA appraised





Fernco shear banded couplings are specifically designed to connect and repair pipes on adopted sewer and drainage applications, recommended for Water Authority systems. The stainless steel central band protects the joint under vertical shear loads and helps to keep the joining pipes aligned, helping to prevent pipe displacement.

Fernco manufactures the most extensive range of Shear Banded Couplings available in the marketplace and has revolutionised traditional pipe repair methods over the years. Fernco shear banded couplings are specifically designed to connect and repair pipes on Water Authority (adopted) sewer and drainage applications.

Shear banded couplings are recommended when connecting onto Water Authority assets as they provide added protection and perform to a higher standard than non shear banded couplings.

The shear band on this range of couplings gives the connection added protection against shear loads that could cause the pipes to become mis-aligned.

Fit horizontally or vertically

above or below ground applications





NOTE: Although Drain Couplings are available to connect private (unadopted) drainage systems, Fernco would recommend the use of Shear Banded Couplings for any drainage connection underground for added reassurance of joint alignment over time and to follow best practice.

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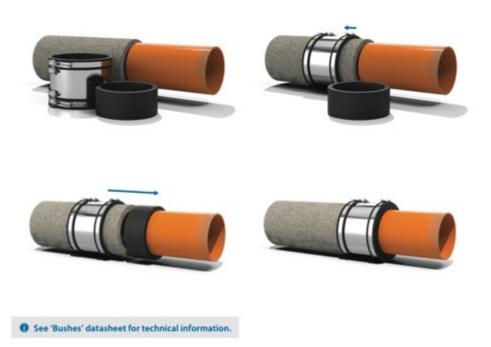






Shear Banded Couplings have the ability to connect two pipes with the same or similar outside diameter (OD), and also have the flexibility to accommodate small differences in pipe OD's.

When the pipe OD's are outside of the limitations of a Shear Banded Coupling, 'Bushes' can be used to make up the annual space between the smaller pipe OD and the Shear Banded Coupling.



Standard Couplings

50-620mm



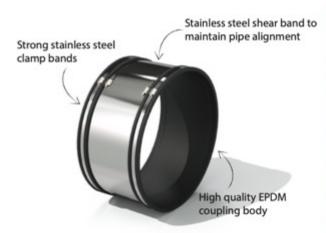
Product Code	SCXXX
Description	Fernco Standard Coupling
Width	190mm
Size Range	50 - 620mm
Material	EPDM 1.4401 (316) Stainless Steel Couplings with a different material makeup are available on request.
Pressure Rating	2.5bar, 36.25psi
Temperature Range	-50°c to 80°c constant, 100°c intermittent
Jetting Resistance	180 bar
Standards	AS/NZS 4327-1995

Product Code	Size Range (mm)	Tightening Torque	Maximum difference between pipes OD's (mm)
SC65	50 - 65	6Nm	6
SC75	60 - 75	6Nm	6
SC85	70 - 85	6Nm	6
SC95	80 - 95	6Nm	6
SC115	100 - 115	6Nm	6
SC120	105 - 120	6Nm	6
SC125	110 - 125	6Nm	6
SC137	122 - 137	6Nm	6
SC150	125 - 150	6Nm	6
SC165	140 - 165	6Nm	6
SC175	150 - 175	6Nm	6
SC185	160 - 185	6Nm	6
SC200	175 - 200	6Nm	6
SC215	190 - 215	13Nm	6
SC225	200 - 225	13Nm	6
SC250	225 - 250	13Nm	6
SC265	240 - 265	13Nm	6
SC275	250 - 275	13Nm	6
SC290	265 - 290	13Nm	6
SC305	280 - 305	13Nm	8
SC310	285 - 310	13Nm	8
SC320	295 - 320	13Nm	8
SC335	310 - 335	13Nm	8
SC345	320 - 345	13Nm	8
SC360	335 - 360	13Nm	0
SC370	345 - 370	13Nm	0
SC370 SC385	360 - 385	13Nm	8
SC395	370 - 385 370 - 395	13Nm	8
SC410	370 - 395 385 - 410	13Nm 13Nm	8
SC410 SC425	400 - 425	13Nm	8
SC425	405 - 430	13Nm	8
SC445	405 - 430 420 - 445		10
SC450	420 - 445 425 - 450	13Nm 13Nm	10
SC465	440 - 465	13Nm	10
SC405 SC470		13Nm	10
	445 - 470		
SC490	465 - 490	13Nm	10
SC510	485 - 510	13Nm	10
SC525	500 - 525	13Nm	10
SC540	515 - 540	13Nm	10
SC550	525 - 550	13Nm	10
SC560	535 - 560	13Nm	10
SC570	545 - 570	13Nm	10
SC580	555 - 580	13Nm	10
SC600	575 - 600	13Nm	10
SC620	595 - 620	13Nm	10

Bushes can be used to accommodate differences between pipe OD's which fall outside the limitations of the coupling.

Extra Wide Standard Couplings

200-620mm



Product Code	SCXXXW
Description	Fernco Extra Wide Standard Cou- pling
Width	300mm
Size Range	200 - 620mm
Material	EPDM 1.4401 (316) Stainless Steel Couplings with a different material makeup are available on request.
Pressure Rating	2.5bar, 36.25psi
Temperature Range	-50°c to 80°c constant, 100°c intermittent
Jetting Resistance	180 bar
Standards	AS/NZS 4327-1995

Product Code	Size Range (mm)	Tightening Torque	Maximum difference between pipes OD's (mm)
SC225W	200 - 225	13Nm	8
SC290W	265 - 290	13Nm	8
SC305W	280 - 305	13Nm	10
SC310W	285 - 310	13Nm	10
SC320W	295 - 320	13Nm	10
SC335W	310 - 335	13Nm	10
SC345W	320 - 345	13Nm	10
SC360W	335 - 360	13Nm	10
SC370W	345 - 370	13Nm	10
SC385W	360 - 385	13Nm	10
SC395W	370 - 395	13Nm	10
SC410W	385 - 410	13Nm	10
SC425W	400 - 425	13Nm	10
SC430W	405 - 430	13Nm	10
SC445W	420 - 445	13Nm	12
SC450W	425 - 450	13Nm	12
SC465W	440 - 465	13Nm	12
SC470W	445 - 470	13Nm	12
SC490W	465 - 490	13Nm	12
SC510W	485 - 510	13Nm	12
SC525W	500 - 525	13Nm	12
SC540W	515 - 540	13Nm	12
SC550W	525 - 550	13Nm	12
SC560W	535 - 560	13Nm	12
SC570W	545 - 570	13Nm	12
SC580W	555 - 580	13Nm	12
SC600W	575 - 600	13Nm	12
SC620W	595 - 620	13Nm	12

Bushes can be used to accommodate differences between pipe OD's which fall outside the limitations of the coupling.

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1. Mark both pipes, from the end to be connected, half the width of the coupling, less the required joint gap, which is usually 10mm.



3. Align the pipes and slide the coupling onto the other pipe, ensuring the coupling face and marked line are flush. Tighten this clamp band.



2a. Slide the coupling fully over one of the pipes.



2b. If replacing a cut section of pipe, slide both couplings over each of the existing drain pipes.



4. Position the second pipe, ensuring the coupling face and marked line are flush. Tighten this clamp band.



5. Tighten all clamp bands to the recommended torque in sequence across the width of the coupling starting with the central shear band.

Tamp the bedding under the pipe and re-tighten prior to backfilling.

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Bushes

- · Bushes are used when outside diameters of the pipes to be connected are significantly different
- Can be manufactured to suit specific site and application requirements
- · Provide a high performance seal on low pressure pipes
- · Versatility in application enables the bush to be used when an increase in pipe outside diameter is needed
- · Manufactured to meet the WIS 4-41-01 standard
- Conform to BS EN 681-1:1996



Bushes are used as an additional component part of either Shear Banded Couplings or Lateral Connection Saddles. The purpose of a bush is to increase the outside diameter of a pipe to be connected if the pipe is too small for the coupling being used or the saddle being used.

Fernco Bushes are simple rings of EPDM rubber that are available in various diameters and at various thicknesses. Bushes are used as an additional component part of either Shear Banded Couplings or Lateral Connection Saddles. The purpose of a bush is to increase the outside diameter of a pipe to be connected if the pipe is too small for the coupling being used or the saddle being used. The bush will simply fill the void between the outside of the pipe and the inside of the coupling.

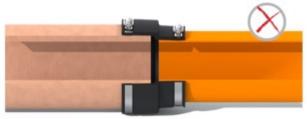
Conformance with WIS 4-41-01 on adopted pipe lines



Compliance with WIS 4-41-01

On unadopted drainage pipelines a suitable Adaptor Coupling could be used when two pipes to be connected have significantly different outside diameters. When connecting adopted drainage pipelines, water companies specify, under WIS 4-41-01, that a Shear Banded Coupling must be used to protect pipe alignment against vertical shear loads and therefore a Shear Banded Coupling and Bush should be used.

None conformance with WIS 4-41-01 on adopted pipe lines



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Moulded Bushes



Product Code	BCXX/XXX
Description	Fernco Bush
Size Range	11 - 265mm
Material	EPDM
Temperature Range	-50°c to 80°c constant, 100°c intermittent
Standards	WIS 4-41-01 BS EN 681-1:1996 BS EN 295-1:2013

Product Code	Pipe OD Min/Max (mm)	Bush Thickness (mm)	Pipe OD Increase (mm)	Bush OD Min/Max (mm)
BC19/17	11 - 16	19	38	49 - 54
BC17/21	15 - 20	17	34	49 - 54
BC14/26	20 - 25	14	28	48 - 53
BC09/37	30 - 37	9	18	48 - 55
BC06/43	35 - 40	6	12	47 - 52
BC23/65	55 - 65	23	46	101 - 111
BC17/76	65 - 76	17	34	99 - 110
BC08/95	85 - 95	8	16	101 - 111
BC27/65	55 - 65	27	54	109 - 119
BC12/95	85 - 95	12	24	109 - 119
BC06/102	92 - 102	6	12	104 - 114
BC08/105	95 - 105	8	16	111 - 121
BC08/115	105 - 115	8	16	121 - 131
BC15/115	105 - 115	15	30	135 - 145
BC12/125	115 - 125	12	24	139 - 149
BC19/132	122 - 132	19	38	160 - 170
BC08/160	150 - 160	8	16	166 - 176
BC06/178	168 - 178	6	12	180 - 190
BC12/166	156 - 166	12	24	180 - 190
BC16/164	154 - 164	16	32	186 - 196
BC26/168	158 - 168	26	52	210 - 220
BC08/170	160 - 170	8	16	176 - 186
BC08/180	170 - 180	8	16	186 - 196
BC08/200M	190 - 200	8	16	206 - 216
BC33/205	195 - 205	33	66	261 - 271
BC21/201	200 - 208	21	42	242 - 250
BC08/265	255 - 265	8	16	271 - 281
BC16/250	240 - 250	16	32	272 - 282

Bespoke Bushes

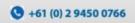
Fernco bushes can be jointed to bespoke sizes in 6 different thicknesses to exact customer requirements:

4mm, 8mm, 12mm, 16mm, 24mm and 32mm

Bush Thickness (mm)	Pipe OD Min (mm)	Pipe OD Max (mm)	Pipe OD Increase (mm)
4	160	no max	8
8	160	no max	16
12	220	no max	24
16	220	no max	32
24	250	no max	48
32	280	no max	64











APPENDIX B - QUALITY CERTIFICATIONS

Copies of the following Quality Certificates are available from WSAA.

TABLE B1 FERNCO LIMITED - MANAGEMENT SYSTEMS

Quality Systems Standard	ISO 9001:2015
Certification licence no.	FM 91289
Certifying agency	BSI
First date of certification	24 November 2004
Current date of certification	3 August 2022
Expiry date of certification	7 February 2025

TABLE B2 FERNCO AUSTRALIA PTY LTD - PRODUCT CERTIFICATION

Product Standard/Spec	AS/NZS 4327:1995
Certificate No.	OMK22225
Issuing certification body	ApprovalMark International
First date of certification	1 May 2019
Current date of certification	1 May 2019
Expiry date of certification	4 April 2024







Certificate of Registration

QUALITY MANAGEMENT SYSTEM - ISO 9001:2015

This is to certify that: Fernco Limited

Endeavour Works Newlands Way Wombwell Barnsley South Yorkshire S73 0UW

United Kingdom

FM 91289

and operates a Quality Management System which complies with the requirements of ISO 9001:2015 for the following scope:

Design, development, manufacture and supply of pipe connection and water management systems.

Repair of pipes, sewers and water infrastructure.

For and on behalf of BSI:

Holds Certificate Number:

Matt Page, Managing Director Assurance - UK & Ireland

Original Registration Date: 2004-11-24 Latest Revision Date: 2022-08-03

Expiry Date: 2025-02-07

Effective Date: 2022-02-08

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...making excellence a habit."

IAPMO R&T OCEANA

1040 Dandenong Road, Carnegie VIC 3163 AUSTRALIA







IAPMO R&T Oceana is a product certification body which inspects and arranges for the independent laboratory testing of samples taken from the manufacturer's stock or from the market or a combination of both, to verify compliance of the requirements of applicable Standards and Specifications. This activity is coupled with periodic surveillance of the certified product taken from the market place or the manufacturer's factory. This certification is subject to the conditions set forth in the characteristics below and is not to be construed as any recommendation, assurance or guarantee by IAPMO R&T Oceana of the product acceptance by Authorities Having Jurisdiction. The IAPMO R&T Oceana "OceanaMark" Product Certification Scheme is a JAS-ANZ accredited ISO Guide 67 Type 5 Product Certification Scheme.

OCEANAMARK CERTIFICATE

IAPMO R&T Oceana hereby grants to:

Fernco (Australia) Pty Limited

A.B.N.: 86 115 372 480

6/7 Jubilee Avenue, Warriewood Sydney NSW 2102, Australia

the right to use the OceanaMark in accordance with IAPMO Oceana Pty Ltd 'Mark Rules' on the product as described in the attached OceanaMark Schedule. The Certificate is granted subject to IAPMO Oceana Pty Ltd 'Governance Rules'.

Evaluated to:

AS/NZS 4327:1995 Metal-banded flexible couplings for low-pressure applications

Manufacturer:

Refer to Licence Holder

Certificate No.: OMK22225 Certified Date: 1 May 2019

Issue Date: 1 May 2019 Expiry Date: 4 April 2024

Chief Executive Officer of the IAPMO Group

Run Chaney

This OceanaMark certification is for the period indicated herein and is void after the date shown above. Any change in material, manufacturing process, marking or design without having first obtained the approval of IAPMO R&T Oceana, or any evidence of non-compliance with applicable Standards, Specifications or of inferior workmanship, may be deemed sufficient cause for revocation of this certification. Reproduction of or reference to this certificate for advertising purposes may be made only by specific written permission of IAPMO R&T Oceana. Any attention of this certificate could be grounds for revocation of this certification.



OCEANAMARK SCHEDULE





Certificate Holder: Fernco (Australia) Pty Ltd

Address: 6/7 Jubilee Avenue

Warriewood Sydney NSW Australia 2102

A.B.N.: 86 115 372 480

Manufacturer: Refer to Licence holder

Certificate No.: OMK22225

Issue Date: 1-May-19 Expiry Date: 4-Apr-24

First Certified: 1-May-19 Standards: AS/NZS 4327:1995

Metal-banded flexible couplings for low pressure applications

AS/NZS 4327:1995 Certificate No.: OMK22225

Brand Name	Model Name	Model ID	Product Type	Product Description	Application	Nominal Size	Classification	Material
Fernco	Flexseal Standard Coupling	SC115A	Flexible coupling (metal-banded)		PVC/CI/VCICulG ROP/DI/PE/Gal	100-115	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Coupling	SC120A	Flexible coupling (metal-banded)		PVC/CI/VCICulG ROP/DI/PE/Gal	110-121	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel

Issue Date: 1 May 2019

This OceanaMark Schedule supersedes all previously issued Schedules

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Std/Spe	oc: AS/NZS 4327:199	95		Certificate No	: OMK22225			
Brand Name	Model Name	Model ID	Product Type	Product Description	Application	Nominal Size	Classification	Material
Fernco	Flexseal Standard Coupling	SC137A		Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC27/65 BC12/95 BC08/105 BC08/115 MB100	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	120-137	Туре В	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Coupling	3C150A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC20/105 BC08/115 BC15/115 BC12/125 BC07/132 MB100	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	125-150	Туре В	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Coupling	SC165A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC20/105 BC15/115 BC12/125 BC07/132	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	140-165	Туре В	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Coupling	SC175A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC19/132 BC04/160	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	150-175	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Coupling	SC185A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC19/132 BC04/160 BC08/160 BC08/170	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	160-185	Туре В	EPDM Rubber Grade 1.4401 (316) Stainless Steel

Std/Spe	c: AS/NZS 4327:196	95		Certificate No.	: OMK22225			
Brand Name	Model Name	Model ID	Product Type	Product Description	Application	Nominal Size	Classification	Material
Fernco	Flexseal Standard Coupling	SC200A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC08/160 BC16/164 BC12/166 BC08/170 BC06/178 BC08/180 MB150	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	175-200	Туре В	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Coupling	SC215A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes Optional Bushes BC16/164 BC12/166 BC06/178 BC08/180 BC08/200	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	190 - 215	Туре В	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Coupling	SC225A	Flexible coupling (metal-banded	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC26/168 BC08/200	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	200 - 225	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Coupling	SC250A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	225 - 250	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Coupling	SC265A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	240 - 265	Туре В	EPDM Rubber Grade 1.4401 (316) Stainless Steel
ernco	Flexseal Standard Coupling	SC275A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC33/205	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	250 - 275	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel

Std/Spe	c: AS/NZS 4327:199	95		Certificate No.	: OMK22225			
Brand Name	Model Name	Model ID	Product Type	Product Description	Application	Nominal Size	Classification	Material
Fernco	Flexseal Standard Coupling	SC290A	Flexible coupling (metal-banded)	Fiexible standard rubber coupling with shear band for drainage use only Optional Bushes BC33/205 BC08/265	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	265 - 290	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Coupling	SC310A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	285 - 310	Туре В	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Coupling	SC320A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	295 - 320	Туре В	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Coupling	SC335A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	305 - 335	Туре В	EPDM Rubber Grade 1.4401 (316) Stainless Steel

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Issue Date: 1 May 2019

Std/Spec	c: AS/NZS 4327:199	5		Certificate No.	OMK22225			
Irand Name	Model Name	Model ID	Product Type	Product Description	Application	Nominal Size	Classification	Material
ernco	Flexseal Standard Coupling	SC345A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	315 - 345	Туре В	EPDM Rubber Grade 1.4401 (316) Stainless Steel
ernco	Flexseal Standard Coupling	SC360A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/CI/VCICu/G ROP/DI/PE/Gal	340 - 360	Туре В	EPDM Rubber Grade 1.4401 (316) Stainless Steel
ernco	Flexseal Standard Coupling	SC385A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/CI/VCI/Cu/G ROP/DI/PE/Gal	355 - 385	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
ernco	Flexseal Standard Coupling	SC410A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	385 - 410	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel

Std/Spe	Spec: AS/NZS 4327:1995									
Brand Name	Model Name	Model ID	Product Type	Product Description	Application	Nominal Size	Classification	Material		
Fernco	Flexseal Standard Coupling	SC425A		Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC16/*** BC16/*** BC24/*** BC32/***	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	400 - 425	Туре В	EPDM Rubber Grade 1.4401 (316) Stainless Steel		
Fernco	Flexseal Standard Coupling	SC430A	Flexible coupling (metal-banded	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04!*** BC08!*** BC16!*** BC16!*** BC24!*** BC32!***	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	405 - 430	Туре В	EPDM Rubber Grade 1.4401 (316) Stainless Steel		
Fernco	Flexseal Standard Coupling	SC445A	Flexible coupling (metal-banded	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC16/*** BC16/*** BC24/*** BC32/***	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	420 - 445	Туре В	EPDM Rubber Grade 1.4401 (316) Stainless Steel		
Fernco	Flexseal Standard Coupling	SC465A	Flexible coupling (metal-banded	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC12/*** BC12/*** BC12/*** BC24/*** BC32/***	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	435 - 465	Туре В	EPDM Rubber Grade 1.4401 (316) Stainless Steel		

Brand Name	Model Name	Model ID	Product Type	Product Description	Application	Nominal Size	Classification	Material
Fernco	Flexseal Standard Coupling	SC490A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	465 - 490	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
ernco	Flexseal Standard Coupling	SC510A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC04/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	480 - 510	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
ernco	Flexseal Standard Coupling	SC525A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC04/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	495 - 525	Туре В	EPDM Rubber Grade 1.4401 (316) Stainless Steel
ernco	Flexseal Standard Coupling	SC540A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	510 - 540	Туре В	EPDM Rubber Grade 1.4401 (316) Stainless Steel

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Std/Spe	c: AS/NZS 4327:199	95		Certificate No.	: OMK22225			
rand Name	Model Name	Model ID	Product Type	Product Description	Application	Nominal Size	Classification	Material
Fernco	Flexseal Standard Coupling	SC550A		Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC16/*** BC16/*** BC24/*** BC32/***	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	520 - 550	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Coupling	SC560A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC12/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	530 - 560	Туре В	EPDM Rubber Grade 1.4401 (316) Stainless Steel
ernco	Flexseal Standard Coupling	SC580A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	555 - 580	Туре В	EPDM Rubber Grade 1.4401 (316) Stainless Steel
rernco	Flexseal Standard Coupling	SC600A	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	570 - 600	Туре В	EPDM Rubber Grade 1.4401 (316) Stainless Steel

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Std/Spe	nc: AS/NZS 4327:199.	5		Certificate No.	: OMK22225			
Brand Name	Model Name	Model ID	Product Type	Product Description	Application	Nominal Size	Classification	Material
rernco .	Flexseal Standard Extra wide Coupling	SC225WA	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC26/168 BC08/200	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	200 - 225	Туре В	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Extra wide Coupling	SC290WA	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC33/205 BC08/265	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	265 - 290	Туре В	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Extra wide Coupling	SC310WA	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC12/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	285 - 310	Туре В	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Extra wide Coupling	SC320WA	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	295 - 320	Туре В	EPDM Rubber Grade 1.4401 (316) Stainless Steel

Std/Spe	c: AS/NZS 4327:199	5		Certificate No.	: OMK22225			
rand Name	Model Name	Model ID	Product Type	Product Description	Application	Nominal Size	Classification	Material
Fernco	Flexseal Standard Extra wide Coupling	SC335WA		Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	305 - 335	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel
ernco	Flexseal Standard Extra wide Coupling	SC345WA	Flexible coupling (metal-banded	Fiexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	315 - 345	Туре В	EPDM Rubber Grade 1.4401 (316) Stainless Steel
ernco	Flexseal Standard Extra wide Coupling	SC360WA	Flexible coupling (metal-banded) Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	340 - 360	Туре В	EPDM Rubber Grade 1.4401 (316) Stainless Steel
ernco	Flexseal Standard Extra wide Coupling	SC385WA	Flexible coupling (metal-banded	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC12/*** BC24/*** BC32/***	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	355 - 385	Туре В	EPDM Rubber Grade 1.4401 (316) Stainless Steel

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Brand Name	Model Name	Model ID	Product Type	Product Description	Application	Nominal Size	Classification	Material
rernco erroco	Flexseal Standard Extra wide Coupling	SC410WA		Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	385 - 410	Туре В	EPDM Rubber Grade 1.4401 (316) Stainless Steel
ernco	Flexseal Standard Extra wide Coupling	SC425WA	Flexible coupling (metal-banded	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BCO4/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	400 - 425	Туре В	EPDM Rubber Grade 1.4401 (316) Stainless Steel
ernco	Flexseal Standard Extra wide Coupling	SC430WA	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	405 - 430	Туре В	EPDM Rubber Grade 1.4401 (316) Stainless Steel
Fernco	Flexseal Standard Extra wide Coupling	SC445WA	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	420 - 445	Туре В	EPDM Rubber Grade 1.4401 (316) Stainless Steel

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Std/Spe	/Spec: AS/NZS 4327:1995 Certificate No.: OMK22225								
Brand Name	Model Name	Model ID	Product Type	Product Description	Application	Nominal Size	Classification	Material	
fernco	Flexseal Standard Extra wide Coupling	SC465WA	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC12/*** BC16/*** BC16/*** BC32/***	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	435 - 465	Туре В	EPDM Rubber Grade 1.4401 (316) Stainless Steel	
rernco	Flexseal Standard Extra wide Coupling	SC490WA	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC012/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	465 - 490	Туре В	EPDM Rubber Grade 1.4401 (316) Stainless Steel	
iernco	Flexseal Standard Extra wide Coupling	SC510WA	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	480 - 510	Туре В	EPDM Rubber Grade 1.4401 (316) Stainless Steel	
rernco	Flexseal Standard Extra wide Coupling	SC525WA	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	495 - 525	Туре В	EPDM Rubber Grade 1.4401 (316) Stainless Steel	

Std/Spe	d/Spec: AS/NZS 4327:1995 Certificate No.: OMK22225								
rand Name	Model Name	Model ID	Product Type	Product Description	Application	Nominal Size	Classification	Material	
[†] ernco	Flexseal Standard Extra wide Coupling	SC540WA		Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC04/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	510 - 540	Туре В	EPDM Rubber Grade 1.4401 (316) Stainless Steel	
rernco	Flexseal Standard Extra wide Coupling	SC550WA	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC04/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	520 - 550	Туре В	EPDM Rubber Grade 1.4401 (316) Stainless Steel	
Fernco	Flexseal Standard Extra wide Coupling	SC560WA	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC04/*** BC12/*** BC16/*** BC24/*** BC32/***	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	530 - 560	Туре В	EPDM Rubber Grade 1.4401 (316) Stainless Steel	
ernco	Flexseal Standard Extra wide Coupling	SC580WA	Flexible coupling (metal-banded)	Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC12/*** BC16/*** BC32/***	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	555 - 580	Туре В	EPDM Rubber Grade 1.4401 (316) Stainless Steel	

Std/Spe	oc: AS/NZS 4327:199	5	Certificate No.: OMK22225						
rand Name	Model Name	Model ID	Product Type	Product Description	Application	Nominal Size	Classification	Material	
Fernco	Flexseal Standard Extra wide Coupling	SC600WA		Flexible standard rubber coupling with shear band for drainage use only Optional Bushes BC04/*** BC08/*** BC16/*** BC16/*** BC24/*** BC32/***	PVC/CI/VC/Cu/G ROP/DI/PE/Gal	570 - 600	Type B	EPDM Rubber Grade 1.4401 (316) Stainless Steel	
ernco	FlexseL Adaptor	AC633A	Flexible coupling (metal-banded	Flexible adaptor coupling for	PVC/Cu/PE/Gal	53-63/40-50	Type B	EPDM Rubber	
ernco	FlexseL Adaptor	AC1201A	Flexible coupling (metal-banded	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	105-120/35-45	Type B	EPDM Rubber	
ernco	FlexseL Adaptor	AC1225A	Flexible coupling (metal-banded	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	110-122/48-56	Type B	EPDM Rubber	
ernco	FlexseL Adaptor	AC1226A	Flexible coupling (metal-banded	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	110-122/60-68	Type B	EPDM Rubber	
ernco	FlexseL Adaptor	AC1221A	Flexible coupling (metal-banded	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	110-122/80-95	Type B	EPDM Rubber	
ernco	FlexseL Adaptor	AC5144A	Flexible coupling (metal-banded	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	110-125/100-	Type B	EPDM Rubber	
ernco	FlexseL Adaptor	AC1361A	Flexible coupling (metal-banded	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	121-136/80-95	Type B	EPDM Rubber	
ernco	FlexseL Adaptor	AC1362A	Flexible coupling (metal-banded	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	121-136/100-	Type B	EPDM Rubber	
ernco	FlexseL Adaptor	AC4000A	Flexible coupling (metal-banded	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	121-136/110-	Type B	EPDM Rubber	
ernco	FlexseL Adaptor	AC1452A	Flexible coupling (metal-banded	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	130-145/110-	Type B	EPDM Rubber	
ernco	FlexseL Adaptor	AC 1552A	Flexible coupling (metal-banded	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	140-155/90-	Type B	EPDM Rubber	
ernco	FlexseL Adaptor	AC1602A	Flexible coupling (metal-banded	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	144-160/110-	Type B	EPDM Rubber	
ernco	FlexseL Adaptor	AC1603A	Flexible coupling (metal-banded	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	144-160/121-	Type B	EPDM Rubber	
ernco	FlexseL Adaptor	AC1603Ao/s	Flexible coupling (metal-banded	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	144-160/117-	Type B	EPDM Rubber	
ernco	FlexseL Adaptor	AC 1702A	Flexible coupling (metal-banded	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	155-170/110-	Type B	EPDM Rubber	
ernco	FlexseL Adaptor	AC1703A	Flexible coupling (metal-banded	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	155-170/130-	Type B	EPDM Rubber	
ernco	FlexseL Adaptor	AC1922A	Flexible coupling (metal-banded	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	170-192/110-	Type B	EPDM Rubber	
ernco	FlexseL Adaptor	AC1923A	Flexible coupling (metal-banded	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	170-192/121-	Type B	EPDM Rubber	
ernco	FlexseL Adaptor	AC1924A	Flexible coupling (metal-banded	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	170-192/144-	Type B	EPDM Rubber	
ernco	FlexseL Adaptor	AC2000A	Flexible coupling (metal-banded	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	180-200/130-	Type B	EPDM Rubber	
ernco	FlexseL Adaptor	AC6001A	Flexible coupling (metal-banded	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	180-200/144-	Type B	EPDM Rubber	
ernco	FlexseL Adaptor	AC2001A	Flexible coupling (metal-banded	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	180-200/155-	Type B	EPDM Rubber	
ernco	FlexseL Adaptor	AC6000A	Flexible coupling (metal-banded	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	180-200/160-	Type B	EPDM Rubber	
ernco	FlexseL Adaptor	AC2100A	Flexible coupling (metal-banded	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	185-210/100-	Type B	EPDM Rubber	
ernco	FlexseL Adaptor	AC2101A	Flexible coupling (metal-banded	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	185-210/160-	Type B	EPDM Rubber	
ernco	FlexseL Adaptor	AC2152Ao/s	Flexible coupling (metal-banded	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	195-215/100-	Type B	EPDM Rubber	
ernco	FlexseL Adaptor	AC2154A	Flexible coupling (metal-banded	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	190-215/150-	Type B	EPDM Rubber	
ernco	FlexseL Adaptor	AC2254A	Flexible coupling (metal-banded	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	200-225/160-	Type B	EPDM Rubber	
ernco	FlexseL Adaptor	AC2352A	Flexible coupling (metal-banded	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	210-235/110-	Type B	EPDM Rubber	
ernco	FlexseL Adaptor	AC2353A	Flexible coupling (metal-banded	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	210-235/121-	Type B	EPDM Rubber	
ernco	FlexseL Adaptor	AC2354A	Flexible coupling (metal-banded	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	210-235/144-	Type B	EPDM Rubber	

Std/Spe	c: AS/NZS 4327:19	995		Certificate No.:	OMK22225			
Brand Name	Model Name	Model ID	Product Type	Product Description	Application	Nominal Size	Classification	Material
ernco	FlexseL Adaptor	AC2355A	Flexible coupling (metal-banded)		PVC/CI/VC/Cu/G	210-235/170-	Type B	EPDM Rubber
ernco	FlexseL Adaptor	AC2356A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	210-235/190-	Type B	EPDM Rubber
ernco	FlexseL Adaptor	AC2654A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	240-265/144-	Type B	EPDM Rubber
ernco	FlexseL Adaptor	AC2655A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	240-265/170-	Type B	EPDM Rubber
ernco	FlexseL Adaptor	AC2656A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	240-265/190-	Type B	EPDM Rubber
ernco	FlexseL Adaptor	AC2657A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	240-265/210-	Type B	EPDM Rubber
ernco	FlexseL Adaptor	AC 2754A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	250-275/160-	Type B	EPDM Rubber
ernco	FlexseL Adaptor	AC2756A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	250-275//200-	Type B	EPDM Rubber
ernco	FlexseL Adaptor	AC9001A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	260-285/180-	Type B	EPDM Rubber
ernco	FlexseL Adaptor	AC9002A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	260-280/240-	Type B	EPDM Rubber
ernco	FlexseL Adaptor	AC2904A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	265-290/144-	Type B	EPDM Rubber
ernco	FlexseL Adaptor	AC2907A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	265-290/210-	Type B	EPDM Rubber
ernco	FlexseL Adaptor	AC2908A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	265-290/235-	Type B	EPDM Rubber
ernco	FlexseL Adaptor	AC2956Ao/s	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	270-295/185-	Type B	EPDM Rubber
ernco	FlexseL Adaptor	AC3108WA	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	285-310/240-	Type B	EPDM Rubber
ernco	FlexseL Adaptor	AC3204A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	295-320/144-	Type B	EPDM Rubber
ernco	FlexseL Adaptor	AC3205A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	295-320/170-	Type B	EPDM Rubber
ernco	FlexseL Adaptor	AC3207A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	295-320/210-	Type B	EPDM Rubber
ernco	FlexseL Adaptor	AC3208A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	295-320/240-	Type B	EPDM Rubber
ernco	FlexseL Adaptor	AC3209A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	295-320/265-	Type B	EPDM Rubber
ernco	FlexseL Adaptor	AC3351Ao/s	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	310-335/180-	Type B	EPDM Rubber
ernco	FlexseL Adaptor	AC3608A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	335-360/240-	Type B	EPDM Rubber
ernco	FlexseL Adaptor	AC 3609A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	335-360/265-	Type B	EPDM Rubber
ernco	FlexseL Adaptor	AC3600A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	335-360/295-	Type B	EPDM Rubber
ernco	FlexseL Adaptor	AC3858A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	360-385/240-	Type B	EPDM Rubber
ernco	FlexseL Adaptor	AC3859A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	360-385/265-	Type B	EPDM Rubber
ernco	FlexseL Adaptor	AC3850A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	360-385/300-	Type B	EPDM Rubber
ernco	FlexseL Adaptor	AC4208A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	395-420/240-	Type B	EPDM Rubber
ernco	FlexseL Adaptor	AC4209A	Flexible coupling (metal-banded)	Flexible adaptor coupling for	PVC/CI/VC/Cu/G	395-420/265-	Type B	EPDM Rubber
ernco	Flexseal Drain	DC50A	Flexible coupling (metal-banded)	Flexible drain coupling for drainage	PVC/Cu/PE/Gal	50 - 65	Type B	EPDM Rubber
ernco	Flexseal Drain	DC65A	Flexible coupling (metal-banded)	Flexible drain coupling for drainage	PVC/Cu/PE/Gal	50 - 65	Type B	EPDM Rubber
ernco	Flexseal Drain	DC75A	Flexible coupling (metal-banded)	Flexible drain coupling for drainage	PVC/Cu/PE/Gal	50 - 65	Type B	EPDM Rubber
ernco	Flexseal Drain	DC95A	Flexible coupling (metal-banded)	Flexible drain coupling for drainage	PVC/Cu/PE/Gal	80 - 95	Type B	EPDM Rubber
ernco	Flexseal Drain	DC115A	Flexible coupling (metal-banded)	Flexible drain coupling for drainage	PVC/CI/VC/Cu/G	100 - 115	Type B	EPDM Rubber
ernco	Flexseal Drain	DC125A	Flexible coupling (metal-banded)	Flexible drain coupling for drainage	PVC/CI/VC/Cu/G	110 - 125	Type B	EPDM Rubber
ernco	Flexseal Drain	DC135A	Flexible coupling (metal-banded)	Flexible drain coupling for drainage	PVC/CI/VC/Cu/G	120 - 135	Type B	EPDM Rubber
ernco	Flexseal Drain	DC150A	Flexible coupling (metal-banded)	Flexible drain coupling for drainage	PVC/CI/VC/Cu/G	135 - 150	Type B	EPDM Rubber
ernco	Flexseal Drain	DC165A	Flexible coupling (metal-banded)	Flexible drain coupling for drainage	PVC/CI/VC/Cu/G	150 - 165	Type B	EPDM Rubber
ernco	Flexseal Drain	DC175A	Flexible coupling (metal-banded)	Flexible drain coupling for drainage	PVC/CI/VC/Cu/G	160 - 175	Type B	EPDM Rubber
ernco	Flexseal Drain	DC185A	Flexible coupling (metal-banded)	Flexible drain coupling for drainage	PVC/CI/VC/Cu/G	170 - 185	Type B	EPDM Rubber
Fernco	Flexseal Drain	DC195A	Flexible coupling (metal-banded)	Flexible drain coupling for drainage	PVC/CI/VC/Cu/G	180 - 195	Type B	EPDM Rubber

Std/Spec: AS/NZS 4327:1995			Certificate No.: OMK22225							
d Name	Model Name	Model ID	Product Type	Product Description	Application	Nominal Size	Classification	Material		
co	Flexseal Drain	DC215A	Flexible coupling (metal-banded)	Flexible drain coupling for drainage	PVC/CI/VC/Cu/G	200 - 215	Type B	EPDM Rubber		
:0	Flexseal Drain	DC225A	Flexible coupling (metal-banded)	Flexible drain coupling for drainage	PVC/CI/VC/Cu/G	210 - 225	Type B	EPDM Rubber		
:0	Flexseal Drain	DC250A	Flexible coupling (metal-banded)	Flexible drain coupling for drainage	PVC/CI/VC/Cu/G	235 - 250	Type B	EPDM Rubber		
0	Flexseal Drain	DC275A	Flexible coupling (metal-banded)	Flexible drain coupling for drainage	PVC/CI/VC/Cu/G	260 - 275	Type B	EPDM Rubber		
-	1006-100M	1006-100	Adaptor Coupling	Grey Adaptor Coupling	Drainage	DI4755**	Type A	Flexible PVC		
10-11-	1006-150M	1006-150	Adaptor Coupling	Grey Adaptor Coupling	Drainage	DI4225**	Type A	Flexible PVC		
10 ···	1006-225M	1006-225	Adaptor Coupling	Grey Adaptor Coupling	Drainage	DIVEZE	Type A	Flexible PVC		
	1056-100M	1056-100	Straight-No Shearband	Grey Straight Coupling	Drainage	DN100	Type A	Flexible PVC		
10-11-	1056-100/90M	1056-100/90	Adaptor Coupling	Grey Adaptor Coupling	Drainage	DN100/DN90	Type A	Flexible PVC		
10-11-	1056-150M	1056-150	Straight-No Shearband	Grey Straight Coupling	Drainage	DN150	Type A	Flexible PVC		
	1056-225M	1056-225	Straight-No Shearband	Grey Straight Coupling	Drainage	DN225	Type A	Flexible PVC		
	1056-40M	1056-40	Straight-No Shearband	Grey Straight Coupling	Drainage	DN40	Type A	Flexible PVC		
10 ····	1056-40/32M	1056-40/32	Adaptor Coupling	Grey Adaptor Coupling	Drainage	DN40/DN32	Type A	Flexible PVC		
	1056-50M	1056-50	Straight-No Shearband	Grey Straight Coupling	Drainage	DN50	Type A	Flexible PVC		
- C	1056-50/40M	1056-50/40	Adaptor Coupling	Grey Adaptor Coupling	Drainage	DN50/DN40	Type A	Flexible PVC		
10-11-	1056-65M	1056-65	Straight-No Shearband	Grey Straight Coupling	Drainage	DN65	Type A	Flexible PVC		
-	1056-80M	1056-80	Straight-No Shearband	Grey Straight Coupling	Drainage	DN80	Type A	Flexible PVC		
	1056-90M	1056-90	Straight-No Shearband	Grey Straight Coupling	Drainage	DN90	Type A	Flexible PVC		
0	E042-042	E042-042	Straight-No Shearband	Grey Straight Coupling	Drainage	DN40	Type A	Flexible PVC		
	E050-042	E050-042	Adaptor Coupling	Grey Adaptor Coupling	Drainage	DN50/DN40	Type A	Flexible PVC		
- Court	E058-038	E058-038	Adaptor Coupling	Grey Adaptor Coupling	Drainage	DN50/DN40	Type A	Flexible PVC		

END RECORD END RECORD

Chief Executive Officer of the IAPMO Group

Run Chaney

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APPENDIX C - SUPPLIER CONTACTS

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