

ERA Piping (Zhejiang) Co Ltd

PRODUCT APPRAISAL REPORT 2034 Issue 2

ERA PVC-U DWV Pipes and Fittings

AS/NZS 1260:2017 PVC-U pipes and fittings for drain, waste and vent applications

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Name/Title	Organisation	Date
Product Appraisal Technical Advisory Group	WSAA	4 August 2020
WSAA Expert Panel	WSAA	4 August 2020
Peter Pittard, WSAA Consultant	WSAA	11 July 2020
Carl Radford, Product Appraisal Manager	WSAA	4 August 2020
Peter Pittard, WSAA Consultant	WSAA	10 August 2023
Carl Radford, Product Appraisal Manager	WSAA	11 August 2023

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

ERA Piping (Zhejiang) Co Ltd is part of ERA Co Ltd, a leading manufacturer of PVC, CPVC, PE, PP and PPR piping systems. Their range of ERA branded DWV fittings are distributed in Australia by Fusion QLD Pty Ltd and Aztec Australasia Pty Ltd.

This Issue 2 is to change the name of the Applicant from Yonggao Co Ltd to ERA Piping (Zhejiang) Co Ltd. There is no change to the ownership, manufacturing site or manufacturing procedures. Some additional fittings have also been added to the scope and quality certificates updated.

This Appraisal is for a range of plain wall PVC-U pipes and fittings manufactured to AS/NZS 1260:2017 *PVC-U pipes and fittings for drain, waste and vent applications*.

The Solvent Cement Joint (SCJ) range includes pipe, bends, junctions, tapers, couplings and other associated fittings in sizes DN 100 and DN 150.

The DN 150 pipe included in the scope of this appraisal is rated as SN8 and the wall thicknesses of the fittings are 3.1mm for DN 100 and 4.1 mm for DN 150. See Sections 6.2.2 and 11.

See Section 4 for details of products included in the scope.

ERA pipes and fittings are manufactured in accordance with the Best Environmental Practice PVC requirements specified in AS/NZS 1260 Appendix C.

ERA Piping (Zhejiang) Co Ltd has a quality management system certified to ISO 9001:2015.

The pipes and fittings are covered by ISO Type 5 StandardsMark product certification to AS/NZS 1260:2017.

The ERA PVC-U DWV injection moulded fittings included in this appraisal report meets the requirements of WSA PS 230 *Polyvinylchloride, Unplasticised (PVC-U) Pipes and Fittings for Non-Pressure Applications – Sewerage and Drainage* and are therefore deemed as 'fit for purpose'.

1.1 Recommendations

It is recommended that WSAA members, subject to any specific requirements of the member, accept or authorise the ERA range of PVC-U DWV solvent cement joint pipes and fittings, as detailed in this report, for use in gravity sewerage and drainage applications, provided they are installed in accordance with WSAA Codes and the manufacturer's requirements, where specified.

2 THE APPLICANT

The Applicant is ERA Piping (Zhejiang) Co Ltd.

2.1 The Manufacturer

ERA Piping (Zhejiang) Co Ltd, based in Zhejiang China, is part of ERA Co Ltd, a leading manufacturer of PVC, CPVC, PE, PP and PPR piping systems and is a leading manufacturer of PVC, CPVC, PE, PP and PPR piping systems. ERA is equipped with 250 extruders and 800 injection moulding machines with product exported to more than 160 countries around the world.

Their range of ERA branded DWV fittings are distributed in Australia by Fusion QLD Pty Ltd and Aztec Australasia Pty Ltd.

3 THE PRODUCT

This Appraisal is for a range of plain wall PVC-U pipes and fittings manufactured to AS/NZS 1260:2017 PVC-U pipes and fittings for drain, waste and vent applications.

The Solvent Cement Joint (SCJ) range includes pipe, bends, junctions, tapers, couplings and other associated fittings in sizes DN 100 and DN 150. The DN 150 pipe included in the

scope of this appraisal is rated as SN8 and the wall thickness of the fittings are 3.1mm for DN 100 and 4.1 mm for DN 150. See Section 4 for details of products included in the scope.

The pipes are manufactured with 6m effective length.

4 SCOPE OF THE APPRAISAL

The range of plain wall ERA PVC-U DWV solvent cement joint pipes and fittings included in the Scope of this Appraisal is detailed below in Table 1 and is included in the Type 5 StandardsMark Product Certification schedule. See Appendix B.

The DN 150 pipe included in the scope of this appraisal is rated as SN8. The wall thicknesses of the fittings are 3.1mm for DN 100 and 4.1mm for DN 150 which meets AS/NZS 1260 required minimum wall thicknesses of 3mm and 4mm respectively.

Product Code	Product Description	DN
AUD001	Pipe SN8	150
AUDC01	Access Coupling	100, 150
AUDC02	Coupling F/F	100, 150
AUDC03	Coupling, slip with rubber	100, 150
AUDC04	Coupling, long	100
AUD013	Spigot Adaptor	100
AUDR04	Reducing Coupling M/F	100
AUDE015	11° Bend M/F	100
AUDE013	15° Bend M/F	100
AUDE014	22° Bend M/F	100
AUDE018	30° Bend M/F	100
AUDE021	42° Bend M/F	100
AUDE06	45° Bend M/F	100
AUDE010	88° Bend M/F	100
AUDE020	90° Bend M/F	100
AUDE09	5° Bend F/F	100
AUDE017	11° Bend F/F	100
AUDE011	15° Bend F/F	100
AUDE019	22° Bend F/F	100
AUDE012	30° Bend F/F	100
AUDE03	45° Bend F/F	100, 150
AUDE016	60° Bend F/F	100
AUDE01	88° Bend F/F	100, 150
AUDE05	45° Bend F/F with Side Access	100
AUDE04, AUDE023	88° Bend F/F with Side Access	100
AUDE02	88° Bend F/F with Rear Access	100

TABLE 1: ERA PVC-U DWV SCJ PIPE AND FITTINGS

Product Code	Product Description	DN
AUDF02	Flange	100
AUDI02	Inspection Test Opening M/F	100
AUDI01	Inspection Test Opening F/F	100
AUDI03	Inspection Test Opening F/F, 1 socket thread	100
AUDR02	Level Invert Taper M/F	150 - 100
AUDT06, AUDT010	45° Junction F/F	100
AUDT011	45° Reducing Junction F/F	150 x 100
AUDT02	45° Junction M/F	100
AUDT03	45° Junction F/F	100
AUDT04	45° Junction F/F with left access	100
AUDT05	45° Junction F/F with right access	100
AUDT012	88° Sweep Junction F/F	150
AUDT013	45° Junction F/F and threaded end	150
AUDT08, AUDT014	88° Junction F/F	100
AUDT07, AUDT018	88° Junction F/F with side access	100
AUDT021	45° Junction F/F with side access	100
AUDT022	45° Junction F/F with side access	100
AUDT023	88° Junction F/F with side access	100
AUDT09	88° Junction M/F	100
AUDT01	88° Sweep Junction F/F	100
AUDT024	Coupling F/F	100
AUDW03	Threaded Cap	100, 150
AUDT017	Snap Tee	100
AUDW01	Dust Cap	100, 150

5 APPRAISAL CRITERIA

5.1 Quality Assurance Requirements

The WSAA Product Appraisal Technical Advisory Group accepts PVC-U moulded fittings manufactured in compliance with AS/NZS 1260:2017 *PVC-U pipes and fittings for drain, waste and vent 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 WSAA Technical Note WSA TN-08.

5.2 Performance Requirements

ERA injection moulded PVC-U fittings have been appraised for compliance with AS/NZS 1260:2017 PVC-U pipes and fittings for drain, waste and vent application.

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 230 Polyvinylchloride, Unplasticised (PVC-U) Pipes and Fittings for Non-Pressure Applications – Sewerage and Drainage.

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

ERA has submitted the following quality certificates:

- ISO 9001:2015 Certificate of Registration No. ZRC22Q0196R0S issued to ERA Piping (Zhejiang) Co Ltd by Guangdong Zhongren Lianhe Certification Co Ltd.
- AS/NZS 1260:2017 ISO Type 5 StandardMark Product Certification Licence No. SMK26022 issued to ERA Piping (Zhejiang) Co Ltd by SAI-Global.
- AS/NZS 1260:2017 Best Environmental Practice Certification No BEP-AMI 78010 issued to ERA Piping (Zhejiang) Co Ltd by ApprovalMark International.

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 Type tests for moulded fittings

The National Centre for Supervision and Inspection of Drainage Irrigation and Water Saving Equipment Products Quality (CNAS accreditation number L0606) has completed type testing in accordance with the requirements of AS/NZS 1260 for a range of various PVC-U fittings. The type tests include PVC content, TiO_2 content, colour, and softening temperature for the material, dimensional checks including thicknesses and performance tests including hydrostatic pressure, infiltration and high temperature stress relief.

Results comply with AS/NZ 1260.

6.2.2 Wall thickness

The minimum wall thickness for moulded fittings is specified in AS/NZS 1260 as 3mm for DN 100 and 4mm for DN 150. ERA drawings confirm that DN 100 and DN 150 fittings have minimum 3.1mm and 4.1mm wall thicknesses respectively.

6.2.3 Solvent cement

Solvent cement is available from the Australian distributors. Solvent cement and priming fluid for use with tapered socketed fittings shall be Type N^1 or Type G^2 complying with AS/NZS 3879:2011.

¹ Type N is used for jointing PVC pipe systems with tapered/interference fit joints which will not be subjected to internal pressure or other applications where high bond strength is not required.

² Type G is used for joining PVC and ABS pressure or non-pressure pipes where parallel/no or low interference fit joints are used and where a high bond strength and ability to fill small gaps is required.

7 FITTING INSTRUCTIONS, TRAINING AND INSTALLATION

PVC-U DWV pipe has been a commonly used product in the urban water industry for many years and pipe layer training is readily available.

Installation, repair and maintenance procedures for PVC pipes are specified in WSA 02 Sewerage Code of Australia and additional information is also available on the WSAA web site.

The following standards and guideline also provide information:

- AS/NZS 2032:2006 Installation of PVC pipe systems
- AS/NZS 2566.1:1998 Buried flexible pipelines Part 1: Structural Design
- AS/NZS 2566.2:2002 Buried flexible pipelines Part 2: Installation
- POP102 Solvent Cement Jointing of PVC Pipe

There is a need for installers and repairers to be trained in the installation/repair of PVC pipe systems. ERA does not provide any specific training for pipe layers, however there are a number of Registered Training Organisations (RTO's) who conduct suitable training courses based on AS/NZS 2032 and AS/NZS 2566.2.

The Plastics Industry Pipe Association of Australia Limited (PIPA) have nominated the Flexitec course, which covers PVC pipe handling and installation, and is delivered nationally either directly by LeHunt and Associates or in conjunction with PARTEC (QLD, NT, NSW), Holmesglen TAFE (VIC) and Regency TAFE (SA). The Civil Contractor's Federation have their own state-based RTO's and some of them also conduct suitable PVC pipe training courses.

8 PRODUCT MARKING

ERA PVC-U injection moulded fittings are marked in accordance with AS/NZS 1260:2017 including the following:

- Manufacturer's name or trademark: ERA
- Nominal size: e.g. 150mm
- Material: UPVC
- The angle of the fitting: e.g. 45°
- The letters 'DWV'
- Stiffness class for pipe: e.g., SN8
- Date of manufacture: dial indicator
- The number of this Standard: AS/NZS 1260
- the letters 'BEP PVC'.
- StandardsMark Licence No: SMK 26022

See Figure 1 for an example of marking.



FIGURE 1 EXAMPLE OF MARKING

9 PACKAGING AND TRANSPORTATION

ERA PVC-U moulded fittings are stored and transported in individual cartons or in cartons on pallets. The pallets are then covered with a shrink wrap. This method of transporting the fittings ensures no scoring to the body of the fitting or damage to any sealing surfaces.

All fittings are stored under cover in dry conditions with all moulded fittings kept in their packaging.

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 the distributors warranty is included in their terms and conditions of sale.

11 OUTCOMES OF EXPERT PANEL PRODUCT REVIEW

No issues were raised.

12 WATER AGENCY EXPERIENCE WITH THE PRODUCT OR FIELD-TESTING REPORT

PVC gravity sewer systems have been in use in Australia since the early 1970s and are the predominant option for collection sewers in sizes up to DN 375. Water industry consensus is that PVC-U gravity systems have performed satisfactorily and that correctly installed PVC-U systems have better resistance to tree root penetration, whether elastomeric sealing ring jointed or solvent cement jointed. However, some mechanical failures of moulded fittings have been experienced when utilised in sewer property service connection assemblies.

WSAA has included an option within WSA PS 230 to allow the specification of DN 100 and DN 150 heavy duty fittings with increased wall thicknesses for property service applications where additional mechanical resistance may be required to resist ground movements, subsidence or settlement related issues. Refer to WSA PS 230 for details.

PVC-U systems should not be used where the ground is or may be contaminated by chemicals, especially organic solvents.

13 FUTURE WORKS

There are no future work items.

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, Phone: 03 8605 7601 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.

14.2 Limits on Reliance on Information and Recommendations

14.2.1 Disclaimer of liability

Neither the Publisher(s) nor any person involved in the preparation of the Report accept(s) any liability for any loss or damage suffered by any person however caused (including negligence or the omission by any person to do anything) relating in any way to the Report or the product appraisal criteria underlying it. This includes (without limitation) any liability for any recommendation or information in the Report or any errors or omissions.

14.2.2 Need for independent assessment

The information and any recommendation contained (expressly or by implication) in this Report are provided in good faith. However, you should treat the information as indicative only. You should not rely on that information or any such recommendation except to the extent that you reach an agreement to the contrary with the Publisher(s).

This Report does not contain all information that a person might require for the purposes of assessing any product discussed or appraised within it (Product). The product appraisal criteria used in preparing this Report may not address all relevant aspects of the Product.

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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.

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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.

 \sim PIPES 45 100 150 150 45' JUNCTION F/F **PVC DWV FITTINGS** (AS/NZS1260) DRAINAGE

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APPENDIX A – PRODUCT LITERATURE



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88' BEND F/F 36.8 48 24.5 43.4 60 27.5 56.3 71 30.5 69.4 38.5 99 83.2 103 44.5 110.9 130 50.5 160.9 225.3 77



M

ITEM NO: AUDEO1

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40

50

65

80

100

100

150

116.7

168.5

125

174

110.9

160.9

50.5

77

105

159.2

Nom Size	D	đ	L1	L2	L3	D1	d1
40	47.8	43.4	27.5	52	52	43	38.2
50	61.1	56.3	30.5	62	64	56	51
65	74.6	69.4	38.5	88	97	69	63.6
100	116.7	110.9	50.5	130	132	110	103.8



45' BEND SIDE ACCESS F/F



Nom				
32	40.8	36.8	24.5	33.3
40	47.8	43.4	27.5	39
50	61.1	56.3	30.5	45
65	74.6	69.4	38.5	56
80	00.0	83.2	44.5	65
100	116.7	110.9	50.5	77
150	168.5	160.9	77	136

PVC DWV FITTINGS AS/NZS1260 ITEM NO: AUDEOG ITEM NO: AUD034 45' BEND M/F 47.8 43.4 27.5 43 39 43 38.2 FOUR WAY RISER 61.1 56.3 30.5 49 45 56 51 74.6 69.4 38.5 60 56 69 63.6 1000500500500640 116.7 110.9 50.5 27.5 175 47.8 43.4 110 88.8 83.2 44.5 70 65 82.5 76.5 100050050040040 116.7 110.9 50.5 30.5 193.5 61.1 56.3 110 116.7 110.9 50.5 82 82 110 103.8 8050040040040 88.8 83.2 45.34 27.5 162 47.8 43.4 82.5 ITEM NO:AUDE021 ITEM NO: AUDC02 42' BEND M/F 116.7 110.9 50.5 82 82 110 103.8 COUPLING F/F 24.5 32 40.8 36.8 51.5 ITEM NO: AUDRO1 40 48.2 43.4 27.5 57 50 61.1 56.3 30.5 63 80 88.8 83.2 44.5 91 SOCKET REDUCER 100 116.7 110.9 50.5 104 50X40 56 51 43.4 27.5 30.5 65X40 69 63.6 43.4 27.5 41.5 63.6 41.5 65X50 69 56.3 30.5 ITEM NO: AUDR02 82.5 76.5 56.3 30.5 47 80X50 80065 82.5 76.5 69.4 38.5 47 100X40 110 103.8 43.4 27.5 53.5 53.5 1000065 110 103.8 69.4 38.5 110 103.8 56.3 30.5 53.5 1000050 LEVEL INVERT TAPER M/F 50X40 57.5 50.45 43.4 32 38.3 100X80 111 101.7 83.2 53.8 78.2 500040 56 51 27.5 29.44 66 48.4 43.4 65X40 69 63.6 27.5 37.57 93 48.4 43.4 65050 69 63.6 30.5 37.57 79 61.7 56.3 ITEM NO: AUDCO1 80050 82.5 76.5 30.5 44.63 108 61.1 56.3 800055 82.5 76.5 38.5 44.24 125 75.1 69.4 100005 110 103.8 38.5 49.18 124 74.9 69.4 ACCESS COUPLING 1000050 110 103.8 30.5 48.88 115.7 61.1 56.3

1000080 110 103.8 44.5 49.62 130 88.8 83.2 150X100 160 151.8 50.5 98.3 210 118.5 110.9

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65

100 116.7

74.6

69.4

110.9

36.6

112

38.5

50.5

45

125

14

PVC DWV FITTINGS



DUST CAP

Nom Size			
40	47.8	43.4	27.4
50	61.1	56.3	27.5
65	74.6	69.4	27.7
80	88.8	83.2	28
100	116.7	110.9	28.1
150	169.1	160.9	39.3



FLOOR WASTE GULLY

Nom					
800050	88.8	69.4	30.5	61.06	56.3
80X65	88.8	69.4	38.5	74.6	69.4
100X50	110.9	69.4	30.5	61.06	56.3
1000655	116.7	69.4	38.5	74.6	69.4
100X100	116.7	110.9	50.5	115	100



CERAMIC ADAPTOR

Nom Size			L1	L2			đ	
100	116.7	110.9	50.5	67	123	172	5 158	.5
		-	1.					
-	5		E				2000	
		-						
1			1		me	M NO:	AUDO	03
		Y	1	3	TE	M NO:	AUDO	03
		Y	1	j	ITE	M NO:	AUDO	03
PAN	CON	INEC	TORS) 5 60M				03
PAN Size No				60M				03 Z



AS/NZS1260

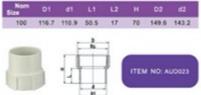
PAN CONNECTORS 20MM OFFSET

W

Size Nom D D1 D2 D3 H L 126 112.7 83.8 61.7 133.3 20 147



FINISHING COLLAR AND GRATE



ADAPTOR FEMALE IRON

Nom Size			Rc			
40	53	43	G1 1/2	38.2	52.5	28
50	65	56	2*	51	59	31
		-		ITE	M NO:/	NUD030

CONNECTOR FEMALE IRON

Nom			Rc			
40	53	47.8	11/2	43.4	50	27.5
50	65	61.1	2	56.3	59	30.5
	1	nin	P			
EAST	Y CLE	AN S	HOWE		EM NO:A	00006
EAS		AN S	HOWE			UDO06

W ITEM NO: AUD024

AS/NZS1260

CONNECTOR MALE IRON

Nom Size				
40	38.2	22.5	55	뭥
50	51	24	62	2



VENT COWL							
Nom Size	D	đ	d1	L	н		
50	62	56.3	32.05	25.2	65		

ITEM NO: AUDR03

PVC DWV FITTINGS

PIPE REDUCER M/F

Nom Size	D1	D2			
40X32	43.1	37.6	36.8	24.5	30.5
50X40	57.5	43.4	38.3	32	32
100X40	110	103.8	43.4	27.5	53.5
100X50	110	103.8	56.3	30.5	53.5
100X80	111	83.2	78.2	48.3	53.8



119.6 110.9 116.7 270 124.2 50.5 193 100



NSPI	ECTION	TEST O	PENING	WITH O	NE SOC	KET TH	READ FI
Nom	D	d	Tr	LI	L2	L3	D1
100	116.7	110.9	125	50.5	110	220	119

P FLAN		1000	100	1.00	
Size	D		D1		
100	116.5	110.9	169.5	67.5	51

	Ţ	1	
20	1	Y-	ITEM NO: AUDTOP
88. JUN	стю	N M/F	

Nom	D	d	L1	L2	L3	L4	d1	D1
100	116.7	110.9	50.5	102.8	154.5	250.3	103.8	110



DIAMOND FLOOR DRAIN

Nom Size	D	đ	D1	н	L.	
100	117.5	91.5	97	64.5	104.5	

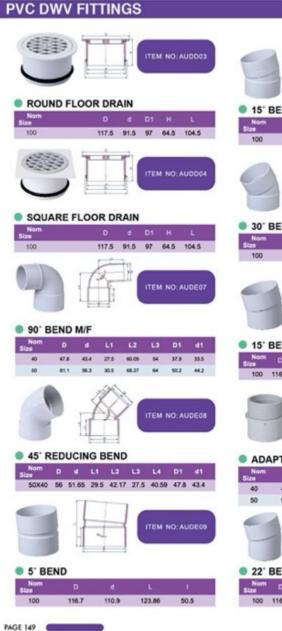
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ITEM NO: AUDF02

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15



15' BEND
Nom D d L I
100 116.7 110.9 140.90 50.5
30° BEND
Norm D d L I Size 100 116.7 110.9 157.93 50.5
15° BEND M/F
Nom D d L1 L2 L3 D1 d1 Size 100 116.7 110.9 50.5 62.4 65.76 110 103.8
ADAPTOR MALE IRON
Nom D d1 d2 R L1 L2 H Size
40 47.8 43.4 38.2 1/2" 22.5 27.5 55 50 96.4 56.3 38.2 2 24 27.5 59
22' BEND M/F
Nom D d L1 L2 L3 D1 d1 Size 100 116.7 110.9 50.5 66 69.43 110 103.8
COPYRIGH

AS/NZS1260

W



PVC DWV FITTINGS	AS/NZS1260
ITEM NO: AUDC 04	
LONG COUPLING	TILE LEAK CONTROL FLANGE
Nom D d D1 d1 H L	Nom p d pt H Ht
100 102.7 96.5 116.7 110.9 175 50.5	Size 80 198 69.3 75.2 48.4 60.8
ITEM NO: AUDC07	100 219 96.4 102.7 68 53.7
SLIP COUPLING	
Norm D d d1 L 100 117 111.1 110.8 125	45' JUNCTION
	Nom D d Tr H L L1 L2
	5128 150 168.5 160.9 174.5 412 77 130.54 281.32
THREADED CAP	
Nom Size D H H1 Tr 100 182.5 34.5 30 175.5 150 169.1 39.3 160.9	ITEM NO:AUDT 014
	88' PLAIN JUNCTION M/F
	Nom D d Tr H L L1 L2 L3 Size 100X88 119.6 110.9 124.2 50.5 106 130 239 110
REDUCING TEE Nom D d D1 d1 L1 L2 L3 L4 Tr Size	ITEM NO: AUDTOIS
150X100 168.5 160.9 120 110.9 77 50.5 228.22 328 124	88'JUNCTION
	Nom D d D1 d1 L1 L2 L3 L4 100x50 61:1 56:3 116:7 110.9 180 50:5 97.42 30.5
ITEM NO: AUDT 012	
88' JUNCTION	45'JUNCTION
Nom D d Tr H L L1 L2	Nom D d D1 d1 L1 L2 L3 L4
150 168.5 160.9 174.5 355 77 197 200	

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W.	AS/NZS1260	PVC DWV FITTIN
C	ITEM NO: AUDE016	
60' BE		DWV PVC BEND M&F PLAIN Size Nom 0 d L1 L2 L3 D1 a1 100 116.7 110.9 50.5 116 104.2 102.7 96.
	17 110.9 50.5 68.21 100.23 85.47	
• 11' BEN	ND F/F	Silze Norm D D1 D2 D3 d d1 L L1
Nom Size 100 1	D d L H 16.7 110.9 50.5 61	80 14336 1109 1092 82 83.2 88.8 3578 445
0		SNAP TEE Size Nom D D1 D2 D3 H L L
30' BEN	ND M/F	100 162 110.9 116.7 124.2 20.5 50.5 182
Nom C Size 100 116	0 df d2 L1 L2 H1 H2 3.7 110.9 110 103.8 50.5 75.06 70.29	
	ITEM NO: AUDE019	PAN CONNECTORS 0MM OFFSET Size Nom D D1 D2 D3 H L 100 147.9 126 112.7 63.8 61.7 133.3
22' BEI	ND F/F	
Nom Size	D d L H	
2		PUDDLE FLANGE Size Nom D D1 D2 H L 50 200.4 101.0 50 31.25 74.0
VENT P		
Size Nom	D D1 D2 H L L1	

APPENDIX B - QUALITY CERTIFICATIONS

Copies of the following Quality Certificates are available from WSAA.

TABLE B1 ERA PIPING (ZHEJIANG) CO LTD - MANAGEMENT SYSTEMS

1118 Huangjiao Road Huangyan Economic Development Zone Taizhou Zhejiang China				
Quality Systems Standard	ISO 9001:2015			
Certification Licence No.	ZRC22Q0196R0S			
Certifying Agency	Guangdong Zhongren Lianhe Certification Co Ltd			
First Date of Certification	-			
Current Date of Certification	12 July 2022			
Expiry Date of Certification	11 July 2025			

TABLE B2ERA PIPING (ZHEJIANG) CO LTD - PRODUCT CERTIFICATION

1118 Huangjiao Road Huan	gyan Economic Development Zone Taizhou Zhejiang China
Product Standard/Spec.	AS/NZS 1260:2017
Certificate No.	SMK26022
Issuing Certification Body	SAI Global
First Date of Certification	12 June 2020
Current Date of Certification	5 June 2023
Expiry Date of Certification	11 June 2025

TABLE B3ERA PIPING (ZHEJIANG) CO LTD – BEST ENVIRONMENTAL PRACTICE PVC

1118 Huangjiao Road Huang	gyan Economic Development Zone Taizhou Zhejiang China
Product Standard/Spec.	AS/NZS 1260:2017
Certificate No.	BEP-AMI 78010
Issuing Certification Body	ApprovalMark International
First Date of Certification	28 August 2017
Current Date of Certification	5 May 2022
Expiry Date of Certification	28 August 2023



Quality Management System Certificate

Certificate No: ZRC22Q0196R0S

We hereby certify that the organization ERA PIPING (ZHEJIANG) CO.,LTD.

Unified social credit code : 91331003MA7J3CBB63 Registration Add:NO.1118 HUANGJIAO ROAD, HUANGYAN JIANGKOU STREET, TAIZHOU,ZHEJIANG PROVINCE Audit Add:NO.1118 HUANGJIAO ROAD, HUANGYAN JIANGKOU STREET, TAIZHOU,ZHEJIANG PROVINCE

Is in conformity with Quality Management System Standard GB/T 19001-2016 / ISO 9001:2015

The certificate is valid to the following product(s)/service : PLASTIC PIPING SYSTEM DESIGN AND MANUFACTURING

Date of Issue : 2022-07-12

Date of Expiry : 2025-07-11

The Effectiveness of the Certificate is Subject to QR Code in the Right. Meanwhile, You Can Search the CNCA Website : www.cnca.gov.cn Website of Certification Body:www.zrlhrz.com

Guangdong Zhongren Lianhe Certification CO.,Ltd Address:The 2305th of building 4,Science and Technology Innovation Center, Chaogui South Road 1,Ronggui Town, Shunde District ,Foshan City. Postcode:528315 Telephone:0757-22191198







SAI Global hereby grants:

ERA PIPING (ZHEJIANG) CO., LTD.

No.1118 Huangjiao Road, Huangyan Economic Development Zone, Taizhou, Zhejiang China

StandardsMark Licence

Manufactured to:

AS/NZS 1260:2017 - PVC-U pipes and fittings for drain, waste and vent applications

"the StandardsMark Licensee" the right to use the STANDARDSMARK as shown below only in respect of the goods described and detailed in the Schedule which are produced by the Licensee or on behalf of the Licensee* and which comply with the appropriate Standard referred to above as from time to time amended. The Licence is granted subject to the rules governing the use of the STANDARDSMARK and the Terms and Conditions for certification and licence. The Licensee covenants to comply with all the Rules and Terms and Conditions.

Licence No: SMK26022

Issued : 5 June 2023 Expires : 11 June 2025

Calin Moldovean President, Business Assurance SAI Global Assurance

Originally Certified : 12 June 2020 Current Certification : 5 June 2023



* For details of manufacture, refer to the licensee

The STANDARDSMARK is a registered certification trademark of SAI Global Pty Limited (A.C.N. 050 644 642) and is issued under licence by SAI Global Certification Services Pty Limited 🌒 SAI GLOBAL

(ACN 108 716 669) ("SAI Global") 650 Lorimer Street, , Port Melbourne VIC 3207, GPO Box 5420 Sydney NSW 2001. This certificate remains the property of SAI Global and must be returned to SAI Global upon its request. Refer to www.saiglobal.com, for the list of product models.

SAI Global hereby grants:

ERA PIPING (ZHEJIANG) CO., LTD. No.1118 Huangjiao Road, Huangyan Economic Development Zone, Taizhou, Zhejiang China

StandardsMark Licence

Manufactured to:

AS/NZS 1260:2017 - PVC-U pipes and fittings for drain, waste and vent applications

Model identification of the goods on which the STANDARDSMARK may be used:

Model	Model Name	Brand	Product Description	Product Type	Nominal Size (DN)	Stiffness Classification	Joint Type	Celour	Date Endorsed
AS2008 100	GULLY DISH & LID	ERA	GULLY DISH & UD	GULLY DISH &	DN 100	518	Solvent cernent- tapered socket	Light Gray	30 May 2023
AUD001 DN100- SN4	DN100 PVC Pipes for Drainage	ERA	DN100 PVC Pipes for Drainage	PVC Pipes for Drainage	DN 100	SN4	Solvent	Light Grey	30 May 2023
AUD001 DN100- SNE	DN100 PVC Pipes for Drainage	ERA	DN100 PVC Pipes for Drainage	PVC Pipes for Drainage	DN 100	SN6	Solvent	Light Grey	30 May 2023
AUD001 DN150- SNI	DN150 PVC Pipes for Drainage	ERA	DN150 PVC Pipes for Drainage	PVC Pipes for Drainage	DN 150	SN6	Solvert	Light Grey	30 May 2023
AUD001 DN150- SN8	DN150 PVC Pipes for Drainage	ERA	DN150 PVC Pipes for Drainage	PVC Pipes for Drainage	DN 150	SN8	Solvent	Light Grey	30 May 2023
AUD001 DN32	DN32 PVC Pipes for Drainage	ERA	DN32 PVC Pipes for Drainage	PVC Pipes for Drainage	DN 32	SN8	Solvent cernent- tapered socket	Light Gray	30 May 2023
AUD001 DN40	DN40 PVC Pipes for Drainage	ERA	DN40 PVC Pipes for Drainage	PVC Pipes for Drainage	DN 40	SN8	Solvent	Light Gray	30 May 2023
AUDIO1 DNS0	DN50 PVC Pipes for Drainage	ERA	DN50 PVC Pipes for Drainage	PVC Pipes for Drainage	DN 50	SN8	Solvent	Light Grey	30 May 2023
AUDIO1 DN65	DN65 PVC Pipes for Drainage	ERA	DN65 PVC Pipes for Drainage	PVC Pipes for Drainage	DN 65	SN8	Solvent	Light Grey	30 May 2023
AUDIO1 DNB0	DN80 PVC Pipes for Drainage	ERA	DN80 PVC Pipes for Drainage	PVC Pipes for Drainage	DN 80	SN8	Solvent	Light Grey	30 May 2023
AUD001S DN100- SN6	DN100 PVC Sandwich Pipes for Drainage	ERA	DN100 PVC Sandwich Pipes for Drainage	PVC Sandwich Pipes for Drainage	DN 100	5%6	Solvent cement	Light Grey	30 May 2023
AUD013 100	100 SPIGOT ADAPTOR	ERA	100 SPIGOT ADAPTOR	SPIGOT ADAPTOR	DN 100	5N8	Solvent cernent- tapered sockat	Light Gray	30 May 2023
AUD023 40	40 IRON ADAPTOR FEMALE	ERA	40 IRON ADAPTOR FEMALE	IRON ADAPTOR FEMALE	DN 40	SNB	Solvent cement- Spigot end	Light Grey	30 May 2023
AUD023 50	50 IRON ADAPTOR FEMALE	ERA	50 IRON ADAPTOR FEMALE	IRON ADAPTOR FEMALE	DN 50	SN8	Solvent cernent- tapered socket	Light Grey	30 May 202
AUD024 40	40 IRON ADAPTOR MALE	ERA	40 IRON ADAPTOR MALE	IRON ADAPTOR MALE	DN 40	SN8	Solvert cement- Spigot end	Light Grey	30 May 202
AUD024 50	50 IRON ADAPTOR MALE	ERA	50 IRON ADAPTOR MALE	IRON ADAPTOR MALE	DN 50	SN8	Solvent cement- tapered socket	Light Gray	30 May 202
AUD025 40	40 IRON CONNECTOR MALE	ERA	40 IRON CONNECTOR MALE	IRON CONNECTOR MALE	DN 40	SN8	Solvent cernent- tapered socket	Light Gray	30 May 202
AUD025 50	SD IRON CONNECTOR MALE	ERA	50 IRON CONNECTOR MALE	IRON CONNECTOR MALE	DN 50	5N8	Solvent cernent- tapered socket	Light Grey	30 May 202
AUD030 40	40 IRON CONNECTOR FEMALE	ERA	40 IRON CONNECTOR FEMALE	IRON CONNECTOR FEMALE	DN 40	SN8	Solvert cement- tapered socket	Light Gray	30 May 202

Licence No: SMK26022

Issued Date: 5 June 2023

This schedule supersedes all previously issued schedules



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Model Identification	Model Name	Brand Name	Product Description	Product Type	Nominal Size (ON)	Stiffness Classification	Joint Type	Colour	Date Endorsed
AUD030 50	SO IRON CONNECTOR FEMALE	ERA	50 IRON CONNECTOR FEMALE	IRON CONNECTOR FEMALE	DN 50	SNB	Solvent comment- tapered socket	Light Grey	30 May 202
AUD034 10075075074/074.0	100'90'50'40 '40 FOUR WAY RISER	ERA	100°50°50°40°40 FOUR WAY RISER	FOUR WAY RISER	DN 10015015014.014.0	SNB	Solvent cement- taperod socket	Light Grey	30 May 202
AUD034 100750750750740	100°50°50°50°40 FOUR WAY RISER	ERA	100750750750740 FOUR WAY RISER	FOUR WAY RISER	DN 100750750750740	SN8	Solvent	Light grey	30 May 202
AUD054 80°50'40'40 '40	80750740740 FOUR WAY RISER	ERA	80'50'40'40 FOUR WAY RISER	FOUR WAY RISER	DN 807DN 50	SN8	Solvent cement- tapered socket	Light Grey	30 May 202
AUD07 100	VENT COWL	ERA	VENT COWL	VENT COWL	DN 100	SN8	Solvent cement- tapered socket	Light Grey	30 May 20
AUD07 50	50 VENT COWL	ERA	50 VENT COWL	VENT COWL	DN 50	SN8	Solvent cement- tapered socket	Light Grey	30 May 20
AUDC01 100	100 ACCESS COUPLING	ERA	100 ADCESS COUPLING	ACCESS COUPLING	DN 100	SN8	Scivent coment- tapered socket	Light Grey	30 May 20
AUDC01 150	150 ACCESS COUPUNG	ERA	150 ACCESS COUPUNG	COUPLING FOR THREADED CAP	DN 150	SN8	Scivent cement- tapered socket	Light Grey	30 May 20
AUDC02 100	100 COUPLING	ERA	100 COUPLING F/F	COUPUNG	DN 100	SN8	Solvent	Light grey	30 May 20
AUDC02 150	F/F COUPLING F/F	ERA	COUPLING F/F	COUPLING	DN 150	SN8	Cement Solvent cement- tapered	Light Grey	30 May 20
AUDC12 32	COUPLING F/F	ERA	COUPLING F/F	COUPLING	DN 32	SN8	Solvent Cement- tapered socket	Light Grey	30 May 23
AUDC02 40	40 COUPUNG F/F	ERA	40 COUPLING FIF	COUPLING	DN 40	SN8	Solvent cement- tapered socket	Light Grey	30 May 20
AUDC02 50	50 COUPUNG FIF	ERA	50 COUPLING FIF	COUPLING	DN 50	SN8	Solvent comment- tapered socket	Light Grey	30 May 202
AUDC02 65	COUPLING F/F	ERA	COUPLING F/F	COUPLING	DN 65	5N8	Solvent cement- tapered socket	Light Grey	30 May 202
AUDC02 80	80 COUPUNG F/F	ERA	80 COUPLING FIF	COUPLING	DN 60	SNB	Solvent cement- tapered socket	Light Grey	30 May 20
AUDC03 100	100 Coupling with rubber	ERA	100 Coupling with rubber	SLIP COUPUNG	DN 100	SN8	Solvent cement- tapered socket	Light Grey	30 May 20
AUDC03 150	150 Coupling with rubber	ERA	150 Coupling with rubber	SLIP COUPUNG	DN 150	SN8	Solvent cement- tapered socket	Light Grey	30 May 20
AUDCOI	100 Long Coupling	ERA	100 Long Coupling	EXPANSION COUPUNG	DN 100	5N8	Solvent cement- tapered socket	Light Grey	30 May 20
AUDC05 80	FLANGED PRE-	ERA	COUPLING DWV FLANGED PRE-LAY	COUPLING DWV FLANGED PRE-LAY	DN 80	SN8	Solvent cement- tapered socket	Light Grey	30 May 20
AUDD01 100	100 FINISHING COLLAR AND GRATE	ERA	120 FINISHING COLLAR AND GRATE	FINISHING COLLAR AND GRATE	DN 1507DN 100	5N8	Solvent coment- tapered socket	Light Grey	30 May 20
AU0002	100 Diamond Floor Drain	ERA	100 Diamond Floor Drain	FLOOR DRAIN	DN 100	SN8	Solvent cement- Spigst end	Light Grey	30 May 20
AUDD03	100 Round Floor Drain	ERA	100 Round Floor Drain	FLOOR DRAIN	DN 100	SN8	Solvent cement- Spigst end	Light Grey	30 May 23
AUDD04	100 Square Floor Drain	ERA	100 Square Floor Drain	FLOOR DRAIN	DN 100	5N8	Solvent cement- Spippt end	Light Grey	30 May 20

Licence No: SMK26022

Issued Date: 5 June 2023

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Model Identification	Model Name	Brand Name	Product Description	Product Type	Nominal Size (DN)	Stiffness Classification	Joint Type	Colour	Date Endorsed
AUDE01 100	100 88"BEND F//F	ERA	100 88'8END F/F	BEND	DN 100	SN8	Solvert cement- tapered socket	Light Grey	30 May 202
ALIDE01 150	150 88'BEND F/F	ERA	150 88'BEND F/F	BEND	DN 150	SN8	Solvent cement- tapered	Light Grey	30 May 202
AUDE01 32	88" BEND F/F	ERA	88' BEND F/F	88" BEND	ON 32	SN8	Solvert Cernent- Tapered	Light Grey	30 May 202
AUDED1 40	40 88'BEND F/F	ERA	40 88'BEND F/F	BEND	DN 40	SN8	Solvert Cernert- Lapered	Light Grey	30 May 20
AUDE01 50	50 88"BEND F/F	ERA	50 88'BEND F/F	BEND	DN 50	SN8	Solvert cement- tapered	Light Grey	30 May 20
AUDED1 65	65 M/BEND F/F	ERA	65 MEBEND F/F	BEND	DN 65	SN8	Solvert cornert- tapered	Light Grey	30 May 20
AUDE01 80	60 66'BEND F/F	ERA	60 SE'BEND F/F	BEND	DN 80	5N8	Solvert Solvert tapered	Light Grey	30 May 20
AUDE010 100	100 88"BEND M/F	ERA	100 88'8END MIF	BEND	DN 100	SN8	Solvert Cornert- tapered	Light Grey	30 May 20
AUDE010 40	40.88"BEND M/F	ERA	40 SE'SEND MIF	BEND	DN 40	SN8	Solvent cement- tapered	Light Grey	30 May 20
AUDED10 50	50 M/BEND M/F	ERA	50 MEBEND MIF	BEND	DN 50	SN8	Solvent comment- tapered	Light Grey	30 May 20
AUDE010 65	65.86"BEND M/F	ERA	65 88'BEND M/F	BEND	DN 65	SN8	sockat Solvent cornent- tapered	Light Grey	30 May 20
AUDE011	100 15" BEND F/F	ERA	100 15' BEND F/F	BEND	DN 100	SN8	Solvent Corment- tapered	Light Grey	30 May 20
AUDE012	100 30" BEND F/F	ERA	100 30' BEND F/F	BEND	DN 100	SN8	Solvert Solvert tapered sockat	Light Grey	30 May 20
AUDE013	100 15' BEND M/F	ERA	100 15" BEND MIF	BEND	DN 100	SN8	Solvent cernent- tapered sockat	Light Grey	30 May 20
AUDE014	100 22" BEND M/F	ERA	100 22" BEND M/F	BEND	DN 100	SN8	Solvent cornent- tapered	Light Grey	30 May 20
AUDE015	100 11' BEND M/F	ERA	100 11" BEND MIF	BEND	DN 100	SNB	Solvent comment- tapered	Light Grey	30 May 20
AUDE016 100	60° BEND F/F	ERA	60° BEND F/F	BEND	DN 100	SN8	socket Solvent cernent- tapered	Light Grey	30 May 20
AUDE017 100	11" BEND F/F	ERA	11° BEND F/F	BEND	DN 100	SN8	Solvent Cernent- tapered	Light Grey	30 May 20
AUDE018 100	30° BEND M/F	ERA	30° BEND MIF	BEND	DN 100	SN8	Solvent cernent- tapered	Light Grey	30 May 20
AUDE019 100	22° BEND F/F	ERA	22° BEND F/F	BEND	ON 100	SNB	sockat Solvent cement- tapered	Light Grey	30 May 20
AUDE02 100	100 MIBEND SIDE ACCESS F/F	ERA	100 MPBEND SIDE ACCESS F/F	BEND SIDE ACCESS	ON 100	SNB	Solvert cernert- tapered socket	Light Grey	30 May 20
AUDE02 40	40 88'BEND SIDE ACCESS F/F	ERA	40 88'BEND SIDE ACCESS F/F	BEND SIDE ACCESS	DN 40	SN8	Solvert cement- tapered	Light Grey	30 May 20

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Model Identification	Model Name	Brand Name	Product Description	Product Type	Nominal Size (DN)	Stiffness Classification	Joint Type	Colour	Date Endorsed
AUDE02 50	50 BRIBEND SIDE ACCESS F/F	ERA	50 88'BEND SIDE ACCESS F/F	BEND SIDE ACCESS	DN 50	SNB	Solvent cernent- tapered socket	Light Grey	30 May 202
AUDE02 65	65 88'BEND SIDE ACCESS F/F	ERA	65 88'BEND SIDE ACCESS F/F	BEND SIDE ACCESS	DN 65	SN8	Solvent cement- tapered sockat	Light Gray	30 May 202
AUDE020 100	DWV PVC BEND MAF PLAIN	ERA	DWV PVC BEND MBF PLAIN	BEND	DN 100	SN8	Solvent cement- tapered	Light Gray	30 May 202
AUDE021 100	42° BEND MIF	ERA	42" BEND WIT	BEND	DN 100	5146	sockat Solvent cement- tapered	Light Grey	30 May 202
AUDE022 50	45'BEND WITH OPENING F/F	ERA	45'BEND WITH OPENING F/F	45'BEND	DN 50	5N8	Solvent cement- tapered	Light Gray	30 May 20
AUDE023 100	88" BEND WIHE SMALL SIDE ACCESS F/F	ERA	88' BEND WIHE SMALL SIDE ACCESS F/F	88" BEND	DN 100	SN8	Solverit cemert- tapered	Light Grey	30 May 23
AUDE024 50	FLOOR GRATE ROUND	ERA	FLOOR GRATE ROUND	FLOOR GRATE ROUND	DN 50	SN8	Solvent Corrent- Lapered	Light Gray	30 May 20
AUDE024 80	FLOOR GRATE ROUND	ERA	FLOOR GRATE ROUND	FLOOR GRATE ROUND	DN 80	SNB	Solvent Cernent- tapered	Light Grey	30 May 20
AUDECOS 80%0	Plug waste shower	ERA	Plug waste shower	Plug waste shower	DN 80%0	5148	Solvert Cernert- tapered	Light Gray	30 May 23
AUDE03 100	100 45° BEND F/F	ERA	100 45° BEND F/F	BEND	DN 100	518	Solvert cement- tapered	Light Grey	30 May 20
AUDE03 150	150 45° BEND F/F	ERA	150 45° BEND F/F	BEND	DN 150	SNB	socket Solvent cernent- tapered	Light Gray	30 May 20
AUDE03 32	32 46'8END F/F	ERA	32 45°8ENO 7/7	45'BEND	DN 32	SN8	sockat Solvert cament- tapered sockat	Light Grey	30 May 23
AUDE03 40	40.45° BEND F/F	ERA	40 45° BEND F/F	BEND	DN 40	516	Solvent cernent- tapered socket	Light Grey	30 May 200
AUDE03 50	50 45" BEND FIF	ERA	50 45° BEND F/F	BEND	DN 50	SN8	Solvent cernent- tapered sockat	Light Gray	30 May 23
AUDE03 65	65 45" BEND F/F	ERA	65 45" BEND F/F	BEND	DN 65	5N8	Solvent cement- tapered	Light Grey	30 May 20
AUDE03 80	80 45° BEND FIF	ERA	80 45° BEND F/F	BEND	DN 80	SN8	Solvent Cernert- Tapered socket	Light Gray	30 May 20
AUDEON 100	100 MPBEND SIDE ACCESS F/F	ERA	100 MPBEND SIDE ACCESS FIF	BEND SIDE ACCESS	DN 100	548	Solvent cement- tapered	Light Grey	30 May 20
AUDEOS 100	100 45'BEND SIDE ACCESS F/F	ERA	100 45'BEND SIDE ACCESS F/F	BEND SIDE ACCESS	DN 100	518	Solvert Cement- tapered socket	Light Grey	30 May 20
AUDE06 100	100 45° BEND MIF	ERA	100 45° BEND M/F	BEND	DN 100	SN8	Solvent cernent- tapered	Light Grey	30 May 20
AUDE06 40	40.45° BEND MIT	ERA	40.45° BEND M/F	BEND	DN 40	SN8	socket Solverit cement- tapered socket	Light Grey	30 May 23
AUDEO6 50	50.45° BEND M/F	ERA	50 45° BEND M/F	BEND	ON 50	5N8	Solvent cornert- tapered socket	Light Grey	30 May 20
AUDE06 65	65 45° BEND MIF	ERA	65 45° BEND M/F	BEND	DN 65	SN8	Solvert Cernent- tapered	Light Gray	30 May 20

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Model Identification	Model Name	Brand Name	Product Description	Product Type	Nominal Size (DN)	Stiffness Classification	Joint Type	Celour	Date Endorsed
AUDE06 80	80.45° BEND M/F	ERA	80 45° BEND M/F	BEND	DN 80	SNB	Solvent cernent- taperod socket	Light Gray	30 May 202
AUDE07 40	40 90" Bend M/F	ERA	40 90" Bend M/F	BEND	DN 40	SNB	Solvent cement- tapered	Light Grey	30 May 202
AUDE07 50	50 90" Bend M/F	ERA	50 90" Bend M/F	BEND	DN 50	SNB	Solvent cernent- tapered	Light Grey	30 May 202
AUDE08 50%0	50°40 45° Reducing Bend	ERA	50%0 45° Reducing Bend	REDUCING BEND	DN 50°DN 40	SNE	Solvent cement- tapered	Light Grey	30 May 202
AUDE09	100 5' BEND F/F	ERA	100 5' BEND F/F	BEND	DN 100	SNB	Solvent cernent- tapered	Light Grey	30 May 202
AUDF02	100 Flange	ERA	100 Flange	FLANGE	DN 100	SNB	socket Solvent cement- tapered	Light Grey	30 May 202
AUDI01 100	100 INSPECTION TEST OPENING F/F	ERA	100 INSPECTION TEST OPENING F/F	INSPECTION TEST OPENING	DN 100	SNB	Solvert cement- tapered socket	Light Gray	30 May 202
AUDI02 100	100 INSPECTION TEST OPENING M/F	ERA	100 INSPECTION TEST OPENING M/F	INSPECTION TEST OPENING	DN 100	SN8	Solvent cement- tapered socket	Light Grey	30 May 202
AUDIOS 100	INSPECTION TEST OPENING WITH ONE SOCKET THREAD	ERA	INSPECTION TEST OPENING WITH ONE SOCKET THREAD F/F	INSPECTION TEST OPENING	DN 100	SNB	Solvert cernert- tapered socket	Light Gray	30 May 202
AUDO01	F/F 100 Off Set Pan Collar 20"	ERA	100 Off Set Pan Colar 20"	PAN	DN 100	SNB	Solvent cement- tapered socket	Light Gray	30 May 202
AUDO02	100 Pan Connector Concentric	ERA	100 Pan Connector Concentric	PAN	DN 100	SN8	Solvent cement- tapered socket	Light Grey	30 May 202
AUDR01 100'40	100'40 SOCKET REDUCER M/F	ERA	10740 SOCKET REDUCER MIF	SOCKET REDUCER	DN 1007DN 40	SNB	Solvent cement- tapered socket	Light Grey	30 May 202
AUDR01 100*50	100°50 SOCKET REDUCER M/F	ERA	10750 SOCKET REDUCER MIF	SOCKET REDUCER	DN 1007DN 50	SNB	Solvent cement- tapered	Light Gray	30 May 202
AUDR01 100%5	100465 SOCKET REDUCER M/F	ERA	10765 SOCKET REDUCER MIF	SOCKET REDUCER	DN 1007DN 65	SN8	Solvent Cement- Laperod socket	Light Gray	30 May 202
AUDR01 100'80	100%0 SOCKET REDUCER	ERA	100%0 SOCKET REDUCER	SOCKET REDUCER	DN 1001DN 80	SN8	Solvent	Light grey	30 May 202
AUDR01 50%0	50'40 SOCKET REDUCER M/F	ERA	50'40 SOCKET REDUCER MIF	SOCKET REDUCER	DN 507DN 40	SN8	Solvent cernent- tapered socket	Light Gray	30 May 202
AUDR01 65%0	65'40 SOCKET REDUCER M/F	ERA	65'40 SOCKET REDUCER MIF	SOCKET REDUCER	DN 6510N 40	SNB	Solvent cement- tapered	Light Grey	30 May 202
AUDR01 66*50	65'50 SOCKET REDUCER M/F	ERA	65'50 SOCKET REDUCER MIF	SOCKET REDUCER	DN 6570N 50	SN8	socket Solvent cement- tapered socket	Light Gray	30 May 202
AUDRO1 60'50	80'50 SOCKET REDUCER M/F	ERA	80%0 SOCKET REDUCER MIF	SOCKET REDUCER	DN 807DN 50	SNB	Solvent Cernent- taperod socket	Light Gray	30 May 20
ALDRO1 60%5	80%5 SOCKET REDUCER M/F	ERA	80%5 SOCKET REDUCER MIF	SOOKET REDUCER	DN 807DN 65	SN8	Solvent cement- tapered socket	Light Gray	30 May 202
AUDR02 100%0	100%0 LEVEL INVERT TAPER M/F	ERA	100°50 LEVEL INVERT TAPER M/F	LEVEL INVERT TAPER	DN 1007DN 50	SNB	Solvent cement- taperod socket	Light Grey	30 May 202
AUDR02 100%5	100%65 LEVEL INVERT TAPER MIF	ERA	100%5 LEVEL INVERT TAPER M/F	LEVEL INVERT TAPER	DN 1007DN 65	SNB	Solvent cement- tapered socket	Light Grey	30 May 202

Licence No: SMK26022

Issued Date: 5 June 2023

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Model Identification	Model Name	Brand Name	Product Description	Product Type	Nominal Size (DN)	Stiffness Classification	Joint Type	Colour	Date Endorsed
AUDR02 100'80	100%0 LEVEL INVERT TAPER	ERA	100'80 LEVEL INVERT TAPER M/F	LEVEL INVERT TAPER	DN 100*DN 80	SN8	Solvert	Light grey	30 May 202
NUDR22 150°100	M/F 550°100 LEVEL INVERT TAPER M/F	ERA	150°100 LEVEL INVERT TAPER MIF	LEVEL INVERT TAPER	DN 1507DN 100	548	Solvent cernent- tapered	Light Grey	30 May 202
AUDR02 50%0	S0'40 LEVEL INVERT TAPER MIF	ERA	50'40 LEVEL INVERT TAPER MIF	LEVEL INVERT TAPER	DN 507DN 40	516	Solvent cement- tapered	Light Grey	30 May 202
AUDR02 65'40	6540 LEVEL INVERT TAPER MIF	ERA	65%0 LEVEL INVERT TAPER MIT	LEVEL INVERT TAPER	DN 657DN 40	SN8	Solvert Solvert cernent- tapered	Light Gray	30 May 202
AUDR02 65*50	66°50 LEVEL INVERT TAPER MIF	ERA	65'50 LEVEL INVERT TAPER MF	LEVEL INVERT TAPER	DN 65°DN 50	SN8	Solvert Cernert- tapered sockat	Light Gray	30 May 202
AUDR02 80%0	80%0 LEVEL INVERT TAPER MIF	ERA	10'50 LEVEL INVERT TAPER MF	LEVEL INVERT TAPER	DN 80°DN 50	SNB	Solvent cernent- tapered sockat	Light Grey	30 May 202
AUDR02 80%5	80%5 LEVEL INVERT TAPER MIF	ERA	80%5 LEVEL INVERT TAPER MF	LEVEL INVERT TAPER	DN 8070N 65	SN8	Solvent cement- tapered	Light Grey	30 May 200
AUDR03 100'40	100%0 PIPE REDUCER M/F	ERA	100%0 PIPE REDUCER M/F	PIPE REDUCER	DN 1007DN 40	SN8	Solvert cement	Light grey	30 May 200
AUDR03 100750	100°50 PIPE	ERA	100*50 PIPE	PIPE REDUCER	DN 1007DN 50	SN8	Solvent	Light grey	30 May 202
AUDR03 100'80	REDUCER M/F 100%0 PIPE REDUCER M/F	ERA	REDUCER M/F 100'80 PIPE REDUCER M/F	PIPE REDUCER	DN 100'DN 80	SNB	Cement Solvent cement- tapered	Light Gray	30 May 202
AUDR03 50%0	50%0 PIPE REDUCER M/F	ERA	50%40 PIPE REDUCER M/F	PIPE REDUCER	DN 507DN 40	SN8	Solvent cernent- tapered	Light Grey	30 May 202
AUDROA 100	100 Reducing Coupling M/F	ERA	100 Reducing Coupling MIF	REDUCING	DN 100	SNB	Solvent cement- tapered	Light Grey	30 May 202
AUDR05 40°32	SOCKET REDUCER M/F	ERA	SOCKET REDUCER	SOCKET REDUCER	DN 40732	SN8	Solvent cement- tapered socket	Light Grey	30 May 202
AUDSO1 100	100 FLOOR WASTE GULLY	ERA	100 FLOOR WASTE GULLY	FLOOR WASTE GULLY	DN 100	548	Solvent cernent- tapered	Light Grey	30 May 20
AUDS01 100'50	100'50 FLOOR WASTE GULLY	ERA	10750 FLOOR WASTE GULLY	FLOOR WASTE GULLY	DN 1007DN 50	5N8	Solvert cement- tapered socket	Light Grey	30 May 202
AUDS01 100%5	WASTE GULLY	ERA	10765 FLOOR WASTE GULLY	FLOOR WASTE GULLY	DN 1001DN 65	SN8	Solvent cernent- tapered	Light Gray	30 May 202
AUDS01 80%0	80%0 FLOOR WASTE GULLY	ERA	8050 FLOOR WASTE GULLY	FLOOR WASTE GULLY	DN 80	SNB	Solvert Cernert- tapered socket	Light Grey	30 May 20
AUDS01 80%5	80%5 FLOOR WASTE GULLY	ERA	80%5 FLOOR WASTE GULLY	FLOOR WASTE GULLY	DN 807DN 65	5N8	Solvent cernent- tapered socket	Light Grey	30 May 202
AUD502 100	FLOOR WASTE GULLY	ERA	FLOOR WASTE GULLY	FLOOR WASTE GULLY	DN 100	SN8	Solvent cement- tapered socket	Light Gray	30 May 202
AUDT01 100	100 88'JUNCTION FIF	ERA	100 88'JUNCTION FIF	SWEEP	DN 100	SNB	Solvent cernent- tapered socket	Light Grey	30 May 20
AUDT01 32	88'JUNCTION FIF	ERA	88" JUNCTION F/F	88" JUNCTION	DN 32	SN8	Solvent cement- tapered socket	Light Gray	30 May 20
AUDTO1 40	40 BEJUNCTION F/F	ERA	45 BEJUNCTION F/F	SWEEP	ON 40	516	Solvert cement- tapered socket	Light Grey	30 May 20
AUDTO1 50	50 B#JUNCTION F/F	ERA	SO REJUNCTION F/F	SWEEP	DN 50	5N8	Solvent cement- tapered socket	Light Grey	30 May 20

Licence No: SMK26022

Issued Date: 5 June 2023

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Model Identification	Model Name	Brand Name	Product Description	Product Type	Nominal Size (DN)	Stiffness Classification	Joint Type	Colour	Date Endorsed
AUDT01 65	65 88'JUNCTION F/F	ERA	65 88'JUNCTION F/F	SWEEP	DN 65	SN8	Solvent cement- tapered	Light Grey	30 May 202
		4					socket		
AUDT01 80	80 BFJUNCTION	ERA	BO BEJUNCTION	SWEEP	DN 80	SNB	Solvent cement- tapered	Light Grey	30 May 2023
AUDT010 100	45'JUNCTION F/F	ERA	45" JUNCTION F/F	45° JUNCTION	DN 100	SN8	Solvert	Light Grey	30 May 2021
Address 100	40 DUNCTION TH	LIVA	to solution the	40 JUNCTION			coment- tapered	Light Gray	to may rock
AUDT011 150*100	150*100	ERA	150°100 REDUCING	45" JUNCTION	DN 1507DN 100	SN8	sockat Solvent	Light Grey	30 May 2023
	REDUCING TEE		TEE				cement- tapered socket		
AUDT012 150	150 88" JUNCTION	ERA	150 S8" JUNCTION	SWEEP	DN 150	SN8	Solvent cement- tapered	Light Grey	30 May 2023
AUDT013 150	150.45"	ERA	150 45" JUNCTION	45° JUNCTION	DN 150	SNR	sockat Solvert	Light Grey	30 May 2020
A001013 150	JUNCTION WITH ONE THREAD END	ENA	WITH ONE THREAD END	45 2010/11/11	UN ISV	one	coment- tapered socket	upr only	of may and
AUDT014 100	86°PLAIN	ERA	68' PLAIN	88' PLAIN	DN 100	SN8	Solvent	Light Grey	30 May 2023
	JUNCTION M/F	1.500.0	JUNCTION MIF	JUNCTION			cement- tapered socket		
AUDT015 100%0	88" JUNCTION	ERA	86" JUNCTION	MI' JUNCTION	DN 100'50	SNB	Solvert	Light Grey	30 May 2023
							cement- tapered socket		
AUDT016 100%0	45° JUNCTION	ERA	45° JUNCTION	45° JUNCTION	DN 100'50	SN8	Solvent comont-	Light Grey	30 May 2023
							tapered sockat		
AUDT016 100%5	45" JUNCTION	ERA	45" JUNCTION	45° JUNCTION	DN 100%5	SN8	Solvert	Light Grey	30 May 2023
							cement- tapered socket		
AUDT017 100	SNAP TEE	ERA	SNAP TEE	SNAP TEE	DN 100	SN8	Solvert	Light Grey	30 May 2023
							cement- tapered sockat Solvent		
AUDT018 100	88° SIDE SMALL ACCESS	ERA	88" SIDE SMALL	88" SIDE ACCESS	DN 100	SN8		Light Grey	30 May 2023
	JUNCTION F/F		ACCESS JUNCTION	JUNCTION			cement- tapered socket		
AUDTO19 40	SLAB JUNCTION 88" PLAIN	ERA	SLAB JUNCTION 88' PLAIN	SLAB JUNCTION 88" PLAIN	DN 40	SN8	Solvent cement- tapered sockat	Light Grey	30 May 2023
AUDTO19 50	SLAB JUNCTION BP PLAIN	ERA	SLAB JUNCTION BE' PLAIN	SLAB JUNCTION 66" PLAIN	DN 50	SN8	Solvent cement- tapered	Light Grey	30 May 2023
							socket		
AUDT02 100	100 45'JUNCTION M/F WITH TWO	ERA	100 45'JUNCTION MIF WITH TWO THREAD END	45° JUNCTION	DN 100	SN8	Solvent cement- tapered	Light Grey	30 May 2023
AU07020 100%0	THREAD END 45° JUNCTION	ERA	45" JUNCTION	45° JUNCTION	DN 102750	SNR	socket Solvert	Light Grey	30 May 2023
1001020 100 00	WITH PORT	ENA	WITH PORT	WITH PORT		one	cement- tapered	Upt Orey	at may ever
AUDT021 100	45' SIDE	ERA	45" SIDE ACCESS	45' SIDE	DN 100	SN8	Solvert	Light Grey	30 May 2023
	ACCESS JUNCTIOIN RIGHT BIG		JUNCTIOIN RIGHT BIG WHEEL F/F	ACCESS JUNCTIOIN			cement- tapered socket	10 M	
ALIDT022 100	WHEEL F/F 45' SIDE	ERA	45" SIDE ACCESS	45" SIDE	DN 100	SNR	Solvert	Light Grey	30 May 2023
	ACCESS JUNCTIOIN LEFT BIG WHEEL F/F		JUNCTION LEFT BIG WHEEL F/F	ACCESS			cement- tapered socket	age and	
AUDT023 100	88' SIDE	ERA	88" SIDE ACCESS	88" SIDE	DN 100	SN8	Solvert	Light Grey	30 May 2023
	ACCESS ELBOW RIGHT BIG WHEEL F/F		ELBOW RIGHT BIG WHEEL F/F	ACCESS ELBOW			coment- tapered		
AUDT024 100	COUPUNG	ERA	COUPLING RIGHT	COUPUNG	DN 100	SN8	Solvent	Light Grey	30 May 202
Contract 100	RIGHT BIG WHEEL F/F	Live	BIG WHEEL F/F	000-040			cement- tapered socket	dir ordy	our unity alles
ALIDT03 100	100	ERA	100 45'JUNCTION	45° JUNCTION	DN 100	SN8	Solvert	Light Grey	30 May 202
	45'JUNCTION F/F WITH ONE THREAD END		F/F WITH ONE THREAD END				coment- tapered		

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Model Identification	Model Name	Brand Name	Product Description	Product Type	Nominal Size (DN)	Stiffness Classification	Joint Type	Celour	Date Endorsed
AUDT04 100	100 45'SIDE ACCESS JUNCTION LEFT F/F	ERA	100 45'SIDE ACCESS JUNCTION LEFT F/F	SIDE ACCESS JUNCTION LEFT	DN 100	SNB	Solvent cement- tapered socket	Light Grey	30 May 202
AUDT05 100	100 45'SIDE ACCESS JUNCTION RIGHT F/F	ERA	100 45'SIDE ACCESS JUNCTION RIGHT F/F	SIDE ACCESS JUNCTION RIGHT	DN 100	SNB	Solvent cernent- tapered socket	Light Grey	30 May 201
AUDT06 100	100 45" JUNCTION F/F	ERA	AUDTOS 45" JUNCTION	45° JUNCTION	DN 100	SNB	Solvent	Light gray	30 May 20
AUDT06 32	45'JUNCTION F/F	ERA	45° JUNCTION F/F	45° JUNCTION	DN 32	SNB	Solvent cement- tapered socket	Light Grey	30 May 20
AUDTO6 40	40.45'JUNCTION F/F	ERA	40 45'JUNCTION F/F	45" JUNCTION	DN 40	SNB	Solvert cement- tapered socket	Light Gray	30 May 20
AUDTO6 50	50 45'JUNCTION F/F	ERA	50 45"JUNCTION F/F	45° JUNCTION	DN 50	SNB	Solvent cement- tapered sockat	Light Gray	30 May 20
AUDTO6 65	65 45'JUNCTION F/F	ERA	65 45'JUNCTION F/F	45° JUNCTION	DN 65	SN8	Solvent cement- tapered socket	Light Grey	30 May 20
AUDTO6 80	80 45'JUNCTION F/F	ERA	80 45'JUNCTION	45° JUNCTION	DN 80	SNB	Schvent cernent- tapered socket	Light Gray	30 May 20
AUDT07 100	100 68"SIDE ACCESS JUNCTION F/F	ERA	100 88'SIDE ACCESS JUNCTION F/F	SIDE ACCESS JUNCTION	DN 100	SNB	Solvent cement- tapered socket	Light Gray	30 May 20
AUDT08 100	100 88*PLAIN JUNCTION F/IF	ERA	100 887PLAIN JUNCTION F/F	PLAIN JUNCTION	DN 100	SNB	Solvent cement- tapered socket	Light Gray	30 May 20
AUDT09 100	88'JUNCTION MIF	ERA	68" JUNCTION M/F	68" JUNCTION	DN 100	SNB	Solvent cement- tapered socket	Light Grey	30 May 20
AUDW01 100	100 DUST CAP	ERA	100 DUST CAP	DUST CAP	DN 100	SNE	Solvent cement- tapered socket	Light Grey	30 May 20
AUDW01 150	150 DUST CAP	ERA	150 DUST CAP	CAP	DN 150	SNB	Scivent cement- tapered socket	Light Grey	30 May 20
AUDW01 40	40 DUST CAP	ERA	40 DUST CAP	DUST CAP	DN 40	SNB	Solvent cornert- tapered socket	Light Grey	30 May 20
AUDW01 50	SO DUST CAP	ERA	SO DUST CAP	DUST CAP	DN 50	SNB	Solvent cement- tapered socket	Light Grey	30 May 20
AUDW01 65	65 DUST CAP	ERA	65 DUST CAP	DUST CAP	DN 65	SNB	Solvent cement- tapered socket	Light Gray	30 May 20
AUDW01 80	80 DUST CAP	ERA	80 DUST CAP	DUST CAP	DN 80	SNB	Solvent cernent- tapered socket	Light Gray	30 May 20
AUDW08 100	100 THREADED CAP	ERA	100 THREADED CAP	THREADED CAP	DN 100	SNB	Solvent	Light gray	30 May 23
AUDW08 150	150 THREADED CAP	ERA	150 THREADED CAP	THREADED CAP	DN 150	SNB	Threaded end	Light grey	30 May 23
AUDWOR 100	100 Floor Flange	ERA	100 Floor Flange	FLOOR FLANGE	DN 100	SNB	Solvent cement- tapered socket	Light Grey	30 May 20
AUDW04 50	COVER PLANEL	ERA	COVER PLANEL	COVER PLANEL	DN 50	SNB	Solvent cernert- tapered sockat	Light Grey	30 May 20

End of Record

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BEST ENVIRONMENTAL PRACTICE



ApprovalMark International hereby grants:

ERA PIPING (ZHEJIANG) CO., LTD

No.1118 Huangjiao Road, Huangyan Economic Development Zone Taizhou, Zhejiang, China

Best Environmental Practice - PVC

Evaluated to:

AS/NZS 1260:2017 – PVC-U Pipes and fittings for drain, waste and vent applications

AS/NZS 1477:2017 - PVC-U pipes and fittings for pressure applications

AS/NZS 2053.2:2001 - Conduits and fittings for electrical installations - Rigid plain conduits and fittings of insulating material

The licensee complies with the requirements of Best Environmental Practice – PVC as per the relevant specified Standards and Section 7 within the Green Building Council of Australia Literature Review and Best Practice Guidelines for the Life Cycle of PVC Building Product's. The manufacturers technical documentation has been reviewed and found compliant with the following:

Manufacture of PVC Resin

- · Manufacture and end of life management of PVC products
- Use of PVC Recyclate in PVC products

Any changes introduced to above requirements shall immediately be reported to ApprovalMark International in order to examine the validity of the certificate.

Certificate No. BEP-AMI 78010

Issued: 5 May 2022

Originally Certified: 28 August 2017

Expires: 28 August 2023

John PRASAD

Director ApprovalMark International Pty Ltd 18/33 Holbeche Road, Arndell Park 2148, Australia www.approvalmark.com Current Certification: 5 May 2022

Registered by: ApprovalMark International Pty Ltd (ABN 69 143 259 974) Unit 18, 33 Holbeche Road, Arndell Park NSW 2148 Australia. The assessment

APPENDIX C - SUPPLIER CONTACTS

Manufacturer

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Noosaville QLD

Phone: 07 5474 3000

Email: mark@fusionqld.com.au

Website: http://fusionqld.com.au/

Aztec Australasia Pty Ltd

39-43 Deans Court Dandenong South VIC Phone: 03 9868 2394 Email: orders@aztecau.com.au Website: https://www.aztecau.com.au/contact-us/



WATER SERVICES ASSOCIATION OF AUSTRALIA

Melbourne Office

Level 8, 401 Docklands Drive Docklands VIC 3008 Phone: (03) 8605 7666 Fax: (03) 8605 7612

Sydney Office

Level 11, 39 Martin Place Sydney NSW 2000 GPO Box 915 Sydney NSW 2001 Phone: (02) 9221 5966 Fax: (02) 9221 5977

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