



## Zezt Pty Ltd

### PRODUCT APPRAISAL REPORT 0811 Issue 5

Zezt/Vinidex PE100 Polyethylene Pipe

### **AS/NZS 4130:2018 Polyethylene (PE) pipes for pressure applications**

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## Peer Reviewers

Name/Title	Organisation	Date
WSAA Expert Panel	WSAA	23 September 2010
Carl Radford, Product Appraisal Manager	WSAA	8 October 2010
Leith Forbes, WSAA Consultant	WSAA	23 February 2016
Product Appraisal Technical Advisory Group	WSAA	23 February 2016
Carl Radford, Product Appraisal Manager	WSAA	23 February 2016
Peter Pittard, WSAA Consultant	WSAA	27 March 2020
Carl Radford, Product Appraisal Manager	WSAA	2 April 2020
Peter Pittard, WSAA Consultant	WSAA	13 August 2020
Carl Radford, Product Appraisal Manager	WSAA	13 August 2020

## 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

Zezt Pty Ltd is a Tasmanian business formed in 1997 and operates manufacturing plants in Wynyard, Tasmania and Derrimut, Victoria. The company specialises in the manufacture of polyethylene pipe for the mining, civil, agriculture, aquaculture and rural industries. In 2016 the company became a member of the Aliaxis Group.

This Appraisal is for a range of Series 1 PE100 plain wall pipes manufactured in sizes from DN 16 to DN 1200 with pressure classifications from PN 4 to PN 25 in accordance with AS/NZS 4130:2018 – *Polyethylene (PE) pipes for pressure applications*.

This Issue 5 is to clarify that the PE100 pipe is suitable for non-pressure sewerage applications. The Vinidex pipe brand has also been added.

Issue 4 was to address the additional requirements included in the relevant WSAA specifications for PE Pipe. QA certifications have also been updated.

Zezt Pty Ltd has confirmed that their procedures incorporate the recent additional requirements included in the relevant WSAA Specifications regarding the use of recyclates and the frequency of thermal stability testing for batch release tests. See Section 6.2.5.

Pipes are offered in lengths of 6 m, 12 m, or 20 m for all sizes and pressure ratings. Sizes up to DN 160 are available in coil lengths up to 100m depending on PN rating.

Zezt or Vinidex branded PE100 pipes are available as black for non-pressure sewerage, black with blue, purple or cream stripes for drinking water, non-drinking water and pressure sewer applications respectively.

Zezt Pty Ltd has Quality Management System certification to ISO 9001:2015 for both the Wynyard and Derrimut sites.

The Zezt or Vinidex branded PE100 pipe range is covered by Type 5 ApprovalMark Product Certification to AS/NZS 4130:2018 for both manufacturing sites.

This Appraisal has determined that Zezt or Vinidex branded PE 100 pipe meets the requirements of WSA PS 207 – *Polyethylene (PE) Pipes for Pressure Applications – Water Supply and Sewerage*, WSA PS 215 – *Polyethylene (PE) Property Service Pipes for Pressure Applications – Water Supply* and WSA PS 242 - *Polyethylene (PE) Plain Wall Pipes and Fittings for Non-Pressure Applications-Sewerage* and are considered 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 Zezt range of PE100 pipes for use in water supply and pressure and non-pressure sewerage pressure pipelines, provided they are installed in accordance with WSAA Codes and the manufacturers requirements, where specified.

## 2 THE APPLICANT

The Applicant is Zezt Pty Ltd

### 2.1 The Manufacturer

Zezt Pty Ltd is a Tasmanian business formed in 1997 and operates manufacturing plants in Wynyard, Tasmania and Derrimut, Victoria. The company specialises in the manufacture of polyethylene pipe for the mining, civil, agriculture, aquaculture and rural industries. In 2016 the company became a member of the Aliaxis Group. Other Australian based members of the Aliaxis Group are Vinidex and Philmac.

## 3 THE PRODUCT

This Appraisal is for a range of Series 1 PE100 plain wall pipes manufactured in sizes from DN 16 to DN 1200 with pressure classifications from PN 4 to PN 25 in accordance with AS/NZS 4130:2018 – *Polyethylene (PE) pipes for pressure applications*.

Pipes are offered in lengths of 6 m, 12 m, and 20 m for all sizes and pressure ratings. Sizes up to DN 160 are available in coil lengths up to 100m depending on PN rating.

Zeet or Vinidex branded PE100 pipes are available as black for non-pressure sewerage, black with blue, purple or cream stripes for drinking water, non-drinking water and pressure sewer applications respectively.

The details are as follows:

- Series 1
- Material Classification: PE100
- Pressure Classifications: PN4, PN6.3, PN8, PN10, PN12.5, PN16, PN20, PN25.
- Sizes – DN 16, DN 20, DN 25, DN 32, DN 40, DN 50, DN 63, DN 75, DN 90, DN 110, DN125, DN 140, DN 160, DN 180, DN 200, DN 225, DN 250, DN 280, DN 315, DN 355, DN 400, DN 450, DN 500, DN 560, DN 630, DN 710, DN 800, DN 900, DN1000, DN1200.

#### **4 SCOPE OF THE APPRAISAL**

The Scope of this Appraisal is for a range of PE 100 pressure pipe as detailed in Section 3 and included in the Type 5 ApprovalMark product certification product schedules included in Appendix B.

#### **5 APPRAISAL CRITERIA**

##### **5.1 Quality Assurance Requirements**

The WSAA Product Appraisal Technical Advisory Group accepts PE 100 pipes manufactured in compliance with AS/NZS 4130:2018 *Polyethylene (PE) pipes for pressure applications* and duly certified by means of an ISO Type 5 product certification scheme undertaken by a JAS-ANZ accredited Certification 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**

Zeet or Vinidex branded PE100 PE pressure pipe has been appraised for compliance with AS/NZS 4130:2018 *Polyethylene (PE) pipes for pressure applications*. It is a requirement of AS/NZS 4130 that the compound used has in turn been demonstrated to comply with the requirements of AS/NZS 4131.

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 Specifications are relevant to this application.

- WSA PS 207 – *Polyethylene Pipe (PE) Pipes for Pressure Applications – Water Supply and Sewerage*
- WSA PS 215 – *Polyethylene Pipe (PE) Property Service Pipes (PE) Pipes for Pressure Applications – Water Supply*
- WSA PS 240 – *Polyethylene (PE) Property Service Pipes for Pressure Applications – Water Supply* and WSA PS 242 - *Polyethylene (PE) Plain Wall Pipes and Fittings for Non-Pressure Applications-Sewerage*

Copies of the Product Specifications are available at the following link:

<https://www.wsaa.asn.au/shop/product/35716>

## **6 COMPLIANCE WITH APPRAISAL CRITERIA**

### **6.1 Compliance with Quality Assurance Requirements**

Zezt has submitted the following quality certificates:

- ISO 9001:2015 Certificate of Registration No. Au03/1586.01 issued to Zezt Pty Ltd Wynyard by SGS.
- ISO 9001:2015 Certificate of Registration No. Au03/1586.02 issued to Zezt Pty Ltd Derrimut by SGS.
- AS 4130:2018 ISO Type 5 ApprovalMark Product Certification Licence No. AMI 205998 issued to Zezt Pty Ltd Wynyard by ApprovalMark International.
- AS 4130:2018 ISO Type 5 ApprovalMark Product Certification Licence No. AMI 74635 issued to Zezt Pty Ltd Derrimut by ApprovalMark International.

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

### **6.2 Compliance with Performance Requirements**

#### **6.2.1 Polyethylene (PE) compounds**

Zezt has provided a certificate of compliance for Qenos HDF145B and HDF193B PE100 compounds used for the manufacture of their pipe.

These compounds are listed in PIPA POP004 as complying with AS/NZS 4131 and AS/NZS 4020.

#### **6.2.2 Type Tests**

Zezt has provided copies of Type Test reports to demonstrate compliance with the performance requirements of AS/NZS 4130. These tests demonstrate resistance to internal pressure, reversion, thermal stability and slow crack growth resistance.

#### **6.2.3 Suitability for contact with drinking water**

The PE100 compounds utilised in the manufacture of Zezt PE pipes are listed in PIPA POP004 as complying with AS/NZS 4020:2008.

#### **6.2.4 Colour coding**

Zezt/Vinidex PE 100 pressure pipe complies with the colour coding scheme specified in AS/NZS 4130:2018:

- (a) Solid black pipe with blue stripes no darker than RAL 5012 for water supply reticulation networks.
- (b) Solid black pipe with purple stripes no lighter than RAL 310 70 15 nor darker than RAL 330 40 40 for recycled water applications.
- (c) Solid black pipe with cream stripes no lighter than RAL 080 90 20 nor darker than RAL 075 80 20 for sewerage applications.
- (d) Solid black for non-pressure sewerage applications

#### **6.2.5 Batch release tests**

WSAA PE pipe specifications includes a requirement that the Applicants quality plan shall include a requirement in their Batch Release Test procedure that a thermal stability test is undertaken on the first pipe manufactured in a batch of a particular DN and PN and at ongoing frequencies not exceeding 24 hours of production for that batch. The quality plan is

also required to include a requirement that use of recyclate in manufactured pipe other than from the manufacturer's own clean in-house production is prohibited.

Zezt has provided a copy of their procedures to verify compliance to the thermal stability test requirements and that use of recyclate is only sourced in-house from the same material utilised in the production of a particular batch.

## **7 FITTING INSTRUCTIONS, TRAINING AND INSTALLATION**

PE pressure pipe has been a commonly used product in the urban water industry for many years. Zezt PE pipe is compatible with fittings manufactured in accordance with AS/NZS 4129 *Fittings for polyethylene pipes for pressure applications*.

For specific design and installation information relating to PE pressure pipelines and PE gravity pipelines refer to the WSAA Polyethylene Pipeline Code - WSA 01 available at the WSAA web site [www.wsaa.asn.au](http://www.wsaa.asn.au) or AS/NZS 2033:2008 *Installation of polyethylene pipe systems*.

Electrofusion welding, butt fusion and mechanical compression fittings may be used for joining pipe-to-pipe or fitting-to-pipe. All welding shall be performed by welders who have successfully completed training by a Registered Training Organisation, endorsed by the Plastics Industry Pipe Association for the relevant welding method(s).

The Plastics Industry Pipe Association provides technical guidelines for jointing in the following documents.

POP001 Electrofusion Jointing of Pipe and fittings for Pressure Applications.

POP003 Butt Fusion Jointing of PE Pipes and Fittings – Recommended Parameters.

POP001 contains recommendations for equipment required, for jointing, maintenance, servicing and calibration procedures, records to be kept and the training program to be respected to produce good fusion joints in polyethylene pipes.

POP003 is a guide to the butt fusion of polyethylene pipe using AS/NZS 4130 material as a basis, recommending the butt fusion procedures and parameters as specified in ISO 21307.

Copies of these documents can be downloaded from the PIPA website [www.pipa.com.au](http://www.pipa.com.au).

## **8 PRODUCT MARKING**

Zezt pipes are marked in accordance with the requirements of AS/NZS 4130:2015 as follows:

- Manufacturers Name/Trademark: Zezt or Vinidex
- Pipe Series Number: S1
- Nominal outside diameter, classification and SDR: e.g. DN110 PN16 SDR11
- PE material classification: PE100
- Date of manufacture: e.g. 270320
- Time of manufacture: e.g. 15:00
- The standard number: AS/NZS 4130
- ApprovalMark No: AMI 74635
- Special Application information: e.g. RECYCLED WATER - DO NOT DRINK or SEWAGE

Typical marking is:

Zezt (or Vinidex) S1 DN110 PN16 SDR11 PE100 AS/NZS 4130 270320 15.00 AMI 74635.



## **9 PACKAGING AND TRANSPORTATION**

The method of packaging and transport of PE pipes is size dependent. Smaller sizes are provided in bound packs of straight pipes or coils. Larger sizes of straight lengths use bearers, which are held in place with side supports and metal straps. When quantities less than a full pack are required, pipes are strapped in bundles to minimise damage.

The Plastics Industry Pipe Association also provides technical guidelines for packaging, handling and storage of polyethylene pipe and fittings in POP005 *Packaging, Handling, and Storage of Polyethylene Pipes and Fittings*.

Copies of these documents can be downloaded from the PIPA website <http://www.pipa.com.au>.

## **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 Zezt's warranty is included in their terms and conditions of sale.

## **11 WATER AGENCY EXPERIENCE WITH THE PRODUCT OR FIELD-TESTING REPORT**

Zezt/Vinidex PE 100 pipe is approved by many Australian Water Agencies.

## **12 OUTCOMES OF EXPERT PANEL PRODUCT REVIEW**

No issues have been 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, Phone: 03 8605 7601 email [carl.radford@wsaa.asn.au](mailto: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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### **14.2.3 Need for independent assessment**

The information and any recommendation contained (expressly or by implication) in this Report are provided in good faith (and subject to the limitations noted in this Report). 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.

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 indemnity 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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## APPENDIX A – PRODUCT LITERATURE

Other literature is available at: <https://www.zekt.com.au>

### ZEKT CAPABILITY & PE100 POLYETHYLENE PIPE DIMENSIONS

(Based on AS/NZS 4130)



Nominal Size DN	SDR 41 PN 4		SDR 26 PN 6.3		SDR 21 PN 8		SDR 17 PN 10		SDR 13.6 PN 12.5		SDR 11 PN 16		SDR 9 PN 20		SDR 7.4 PN 25	
	Min. Wall Thickness (mm)	Mean I.D. (mm)	Min. Wall Thickness (mm)	Mean I.D. (mm)	Min. Wall Thickness (mm)	Mean I.D. (mm)	Min. Wall Thickness (mm)	Mean I.D. (mm)	Min. Wall Thickness (mm)	Mean I.D. (mm)	Min. Wall Thickness (mm)	Mean I.D. (mm)	Min. Wall Thickness (mm)	Mean I.D. (mm)	Min. Wall Thickness (mm)	Mean I.D. (mm)
16	1.6	13	1.6	13	1.6	13	1.6	13	1.6	13	1.6	13	1.8	12	2.2	11
20	1.6	17	1.6	17	1.6	17	1.6	17	1.6	17	1.9	16	2.3	15	2.08	14
25	1.6	22	1.6	22	1.6	22	1.6	22	1.9	21	2.3	20	2.8	19	3.5	18
32	1.6	29	1.6	29	1.6	29	1.9	28	2.4	27	2.9	26	3.6	24	4.4	23
40	1.6	37	1.6	37	1.9	36	2.4	35	3	34	3.7	32	4.5	31	5.5	28
50	1.6	47	2	46	2.4	45	2	44	3.7	42	4.6	40	5.6	38	6.9	35
63	1.6	60	2.4	58	3	57	2.8	55	4.7	53	5.8	51	7.1	48	8.6	45
75	1.9	71	2.9	69	3.6	67	4.5	66	5.5	63	6.8	61	8.4	58	10.3	53
90	2.2	86	3.5	83	4.3	81	5.4	78	6.6	76	8.2	73	10.1	69	12.3	65
110	2.7	105	4.3	101	5.3	99	6.6	96	8.1	93	10	89	12.3	84	15.1	78
125	3.1	119	4.8	115	6	113	7.4	110	9.2	106	11.4	101	14	96	17.1	89
140	3.5	133	5.4	129	6.7	126	8.3	123	10.3	118	12.7	114	15.7	108	19.2	99
160	4	152	6.2	148	7.7	144	9.5	140	11.8	136	14.6	130	17.9	123	21.9	114
180	4.4	171	6.9	166	8.6	163	10.7	158	13.3	153	16.4	145	20.1	138	24.6	128
200	4.9	190	7.7	184	9.6	180	11.9	175	14.7	170	18.2	162	22.4	154	27.3	143
225	5.5	215	8.6	207	10.8	203	13.4	198	16.6	191	20.5	183	25.1	173	30.8	161
250	6.2	238	9.6	230	11.9	225	14.8	219	18.4	212	22.7	203	27.9	192	34.2	179
280	6.9	267	10.7	258	13.4	253	16.4	246	20.6	238	25.4	228	31.3	215	38.3	200
315	7.7	300	21.1	290	15	285	18.7	278	23.2	268	28.6	256	35.2	242	43	226
355	8.7	338	13.6	328	16.9	320	21.1	311	26.1	301	32.2	289	39.6	273	48.5	255
400	9.8	380	15.3	370	19.1	362	23.7	351	29.4	340	36.3	326	44.7	307	54.6	287
450	11	429	17.2	415	21.5	406	26.7	395	33.1	382	40.9	366	50.2	347	61.5	322
500	12.3	476	19.1	462	23.9	452	29.6	440	36.8	424	45.4	407	55.8	385	67.6*	360
560	13.7	534	21.4	518	26.7	506	33.2	494	41.2	475	50.8	455	62.5	431	75.7*	403
630	15.4	600	24.1	582	30	570	37.3	554	46.3	535	57.2	512	70.3	485	85.1*	454
710	17.4	676	27.2	656	33.9	641	42.1	624	52.2	603	64.5	578	79.3	546	96*	512
800	19.6	762	30.6	739	38.1	723	47.4	704	58.8	679	72.5	651	89.3	616	-	-
900	22	858	34.4	831	42.9	814	53.5	791	66.2	765	81.7	732	100*	694	-	-
1000	24.5	953	38.2	924	47.7	904	59.3	880	72.5	852	90.2	815	111.2*	771	-	-
1200	29.4	1143	45.9	1109	57.2	1085	67.9	1063	88.2	1020	109.1*	976	133.4*	925	-	-

SDR = Standard Dimension Ratio (C)      I.D. = Internal Diameter

\* = calculated using Appendix D AS4130

## APPENDIX B - QUALITY CERTIFICATIONS

Copies of the following Quality Certification Certificates are available for downloading from the WSAA member only website.

**TABLE B1 ZEZT PTY LTD - MANAGEMENT SYSTEMS**

10 Terra Nova Drive Wynyard TAS	
Quality Systems Standard	ISO 9001:2015
Certification Licence No.	AU03/1586.01
Certifying agency	SGS
First date of certification	December 2003
Current date of certification	16 December 2018
Expiry date of certification	16 December 2021

**TABLE B2. ZEZT PTY LTD - MANAGEMENT SYSTEMS**

42 Calarco Drive, Derrimut, VIC	
Quality Systems Standard	ISO 9001:2015
Certification Licence No.	AU03/1586.02
Certifying agency	SGS
First date of certification	December 2003
Current date of certification	16 December 2018
Expiry date of certification	16 December 2021

**TABLE B3 ZEZT PTY LTD - PRODUCT CERTIFICATION**

10 Terra Nova Drive Wynyard TAS	
Product Standard/Spec	AS/NZS 4130:2018
Certificate No.	AMI 20599
Certifying agency	ApprovalMark International
First date of certification	1 July 2014
Current date of certification	20 March 2020
Expiry date of certification	1 July 2022

**TABLE B3 ZEZT PTY LTD - PRODUCT CERTIFICATION**

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42 Calarco Drive, Derrimut, VIC

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Product Standard/Spec	AS/NZS 4130:2018
Certificate No.	AMI 74635
Certifying agency	ApprovalMark International
First date of certification	27 August 2015
Current date of certification	20 March 2020
Expiry date of certification	27 August 2020

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Certificate AU03/1586.01



The management system of

**ZEZT Pty Ltd**

10 Terra Nova Drive, Wynyard, TAS 7325  
Australia



has been assessed and certified as meeting the requirements of

**ISO 9001:2015**

For the following activities

**The manufacture and supply of extruded polyethylene pipe.**

This certificate is valid from 16 December 2018 until 16 December 2021  
and remains valid subject to satisfactory surveillance audits.

Re certification audit due before 16 November 2021  
Issue 3. Certified since December 2003

Multiple certificates have been issued for this scope  
The main certificate is numbered Certificate AU03/1586.00

Authorised by

SSC Systems & Services Certification Australia Pty Ltd  
10/585 Blackburn Road, Notting Hill VIC 3168, Australia  
t(61-3) 9574 3200 f(61-3) 9574 3399 www.au.sgs.com

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Page 1 of 1



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Certificate AU03/1586.02



The management system of

**ZEZT Pty Ltd**

42 Calarco Drive, Derrimut, VIC 3030  
Australia



has been assessed and certified as meeting the requirements of

**ISO 9001:2015**

For the following activities

**The manufacture and supply of extruded polyethylene pipe.**

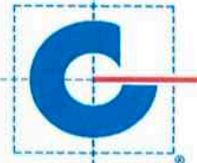
This certificate is valid from 16 December 2018 until 16 December 2021  
and remains valid subject to satisfactory surveillance audits.  
Re certification audit due before 16 November 2021  
Issue 3. Certified since December 2003

Multiple certificates have been issued for this scope  
The main certificate is numbered Certificate AU03/1586.00

Authorised by

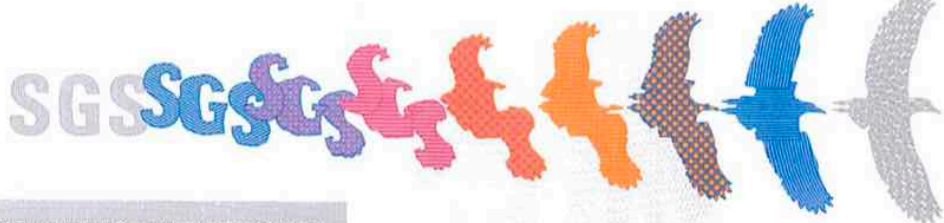
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ISO TYPE 5

# CERTIFICATE OF CONFORMITY



*ApprovalMark International* hereby grants:

## ZEZT PTY LTD

10 Terra Nova Drive,  
Wynard 7325  
AUSTRALIA

Evaluated to

**AS/NZS 4130:2018 – Polyethylene (PE) pipes for pressure applications**

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

**Certificate No.** AMI 20599

**Issued:** 20<sup>th</sup> March 2020  
**Expires:** 1<sup>st</sup> July 2022

**Original Certification:** 1<sup>st</sup> July 2014  
**Current Certification:** 20<sup>th</sup> March 2020

**John PRASAD**  
Director



**Registered by:** ApprovalMark International Pty Ltd (ABN 69 143 259 974) Unit 20, 33 Holbeche Road, Arndell Park NSW 2148 Australia. The assessment was carried with appropriate skill and assessment by ApprovalMark International Pty Ltd; however it will only accept its responsibility for proven negligence. The certificate remains the property of ApprovalMark International Pty Ltd.

ApprovalMark



# Product Schedule

## **ZEZT PTY LTD**

10 Terr Nova Drive  
Wynard 7325  
AUSTRALIA

### **ISO Type 5 Certificate of Conformity**

Evaluated to:

**AS/NZS 4130:2018 – Polyethylene (PE) pipes for pressure applications**

Model Id	Model Name	Brand Name	Product Description	Endorsement Date
DN16	DN16	ZEZT Pipe	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN20	DN20	ZEZT Pipe	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN25	DN25	ZEZT Pipe	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN32	DN32	ZEZT Pipe	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN40	DN40	ZEZT Pipe	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN50	DN50	ZEZT Pipe	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN63	DN63	ZEZT Pipe	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN75	DN75	ZEZT Pipe	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN90	DN90	ZEZT Pipe	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN110	DN110	ZEZT Pipe	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN125	DN125	ZEZT Pipe	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN140	DN140	ZEZT Pipe	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN160	DN160	ZEZT Pipe	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN180	DN180	ZEZT Pipe	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN200	DN200	ZEZT Pipe	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN225	DN225	ZEZT Pipe	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020

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# Product Schedule

Model Id	Model Name	Brand Name	Product Description	Endorsement Date
DN250	DN250	ZEZT Pipe	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN280	DN280	ZEZT Pipe	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN315	DN315	ZEZT Pipe	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN355	DN355	ZEZT Pipe	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN400	DN400	ZEZT Pipe	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN450	DN450	ZEZT Pipe	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN500	DN500	ZEZT Pipe	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN560	DN560	ZEZT Pipe	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN630	DN630	ZEZT Pipe	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN710	DN710	ZEZT Pipe	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN800	DN800	ZEZT Pipe	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN900	DN900	ZEZT Pipe	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN1000	DN1000	ZEZT Pipe	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN1200	DN1200	ZEZT Pipe	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN16	DN16	Huon Aqua	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN20	DN20	Huon Aqua	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN25	DN25	Huon Aqua	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN32	DN32	Huon Aqua	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN40	DN40	Huon Aqua	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN50	DN50	Huon Aqua	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN63	DN63	Huon Aqua	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN75	DN75	Huon Aqua	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN90	DN90	Huon Aqua	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020

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ISO TYPE 5

# CERTIFICATE OF CONFORMITY



*ApprovalMark International* hereby grants:

## ZEZT PTY LTD

42 Calarco Drive,  
Derrimut, 3030  
AUSTRALIA

Evaluated to

**AS/NZS 4130:2018 – Polyethylene (PE) pipes for pressure applications**

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

**Certificate No. AMI 74635**

**Issued:** 20<sup>th</sup> March 2020  
**Expires:** 27<sup>th</sup> August 2020

**Original Certification:** 27<sup>th</sup> August 2015  
**Current Certification:** 20<sup>th</sup> March 2020

**John PRASAD**  
Director



**Registered by:** ApprovalMark International Pty Ltd (ABN 69 143 259 974) Unit 20, 33 Holbeche Road, Arndell Park NSW 2148 Australia. The assessment was carried with appropriate skill and assessment by ApprovalMark International Pty Ltd; however it will only accept its responsibility for proven negligence. The certificate remains the property of ApprovalMark International Pty Ltd.

ApprovalMark



# Product Schedule

## ZEZT PTY LTD

42 Calarco Drive,  
Derrimut, 3030  
AUSTRALIA

### ISO Type 5 Certificate of Conformity

Evaluated to:

**AS/NZS 4130:2018 – Polyethylene (PE) pipes for pressure applications**

Model Id	Model Name	Brand Name	Product Description	Endorsement Date
Zezt Melbourne Pipe	Zezt Melbourne Pipe	Zezt	DN 355, PN4,6.3,8,10,12.5,16,20,25 – variable length	20 <sup>th</sup> March 2020
Zezt Melbourne Pipe	Zezt Melbourne Pipe	Zezt	DN 400, PN4,6.3,8,10,12.5,16,20,25 – variable length	20 <sup>th</sup> March 2020
Zezt Melbourne Pipe	Zezt Melbourne Pipe	Zezt	DN 450, PN4,6.3,8,10,12.5,16,20,25 – variable length	20 <sup>th</sup> March 2020
Zezt Melbourne Pipe	Zezt Melbourne Pipe	Zezt	DN 315, PN4,6.3,8,10,12.5,16,20,25 – variable length	20 <sup>th</sup> March 2020
Zezt Melbourne Pipe	Zezt Melbourne Pipe	Zezt	DN 225, PN4,6.3,8,10,12.5,16,20,25 – variable length	20 <sup>th</sup> March 2020
Zezt Melbourne Pipe	Zezt Melbourne Pipe	Zezt	DN 250, PN4,6.3,8,10,12.5,16,20,25 – variable length	20 <sup>th</sup> March 2020
Zezt Melbourne Pipe	Zezt Melbourne Pipe	Zezt	DN 280, PN4,6.3,8,10,12.5,16,20,25 – variable length	20 <sup>th</sup> March 2020
Zezt Melbourne Pipe	Zezt Melbourne Pipe	Zezt	DN 500, PN4,6.3,8,10,12.5,16,20,25 – variable length	20 <sup>th</sup> March 2020
Zezt Melbourne Pipe	Zezt Melbourne Pipe	Zezt	DN 900, PN4,6.3,8,10,12.5,16,20,25 – variable length	20 <sup>th</sup> March 2020
Zezt Melbourne Pipe	Zezt Melbourne Pipe	Zezt	DN 1000, PN4,6.3,8,10,12.5,16,20,25 – variable length	20 <sup>th</sup> March 2020
Zezt Melbourne Pipe	Zezt Melbourne Pipe	Zezt	DN 1200, PN4,6.3,8,10,12.5,16,20,25 – variable length	20 <sup>th</sup> March 2020
Zezt Melbourne Pipe	Zezt Melbourne Pipe	Zezt	DN 800, PN4,6.3,8,10,12.5,16,20,25 – variable length	20 <sup>th</sup> March 2020



# Product Schedule

Model Id	Model Name	Brand Name	Product Description	Endorsement Date
Zekt Melbourne Pipe	Zekt Melbourne Pipe	Zekt	DN 560, PN4,6.3,8,10,12.5,16,20,25 – variable length	20 <sup>th</sup> March 2020
Zekt Melbourne Pipe	Zekt Melbourne Pipe	Zekt	DN 630, PN4,6.3,8,10,12.5,16,20,25 – variable length	20 <sup>th</sup> March 2020
Zekt Melbourne Pipe	Zekt Melbourne Pipe	Zekt	DN 710, PN4,6.3,8,10,12.5,16,20,25 – variable length	20 <sup>th</sup> March 2020
Zekt Melbourne Pipe	Zekt Melbourne Pipe	Zekt	DN 40, PN4,6.3,8,10,12.5,16,20,25 – variable length	20 <sup>th</sup> March 2020
Zekt Melbourne Pipe	Zekt Melbourne Pipe	Zekt	DN 50, PN4,6.3,8,10,12.5,16,20,25 – variable length	20 <sup>th</sup> March 2020
Zekt Melbourne Pipe	Zekt Melbourne Pipe	Zekt	DN 63, PN4,6.3,8,10,12.5,16,20,25 – variable length	20 <sup>th</sup> March 2020
Zekt Melbourne Pipe	Zekt Melbourne Pipe	Zekt	DN 32, PN4,6.3,8,10,12.5,16,20,25 – variable length	20 <sup>th</sup> March 2020
Zekt Melbourne Pipe	Zekt Melbourne Pipe	Zekt	DN 16, PN4,6.3,8,10,12.5,16,20,25 – variable length	20 <sup>th</sup> March 2020
Zekt Melbourne Pipe	Zekt Melbourne Pipe	Zekt	DN 20, PN4,6.3,8,10,12.5,16,20,25 – variable length	20 <sup>th</sup> March 2020
Zekt Melbourne Pipe	Zekt Melbourne Pipe	Zekt	DN 25, PN4,6.3,8,10,12.5,16,20,25 – variable length	20 <sup>th</sup> March 2020
Zekt Melbourne Pipe	Zekt Melbourne Pipe	Zekt	DN 75, PN4,6.3,8,10,12.5,16,20,25 – variable length	20 <sup>th</sup> March 2020
Zekt Melbourne Pipe	Zekt Melbourne Pipe	Zekt	DN 160, PN4,6.3,8,10,12.5,16,20,25 – variable length	20 <sup>th</sup> March 2020
Zekt Melbourne Pipe	Zekt Melbourne Pipe	Zekt	DN 180, PN4,6.3,8,10,12.5,16,20,25 – variable length	20 <sup>th</sup> March 2020
Zekt Melbourne Pipe	Zekt Melbourne Pipe	Zekt	DN 200, PN4,6.3,8,10,12.5,16,20,25 – variable length	20 <sup>th</sup> March 2020
Zekt Melbourne Pipe	Zekt Melbourne Pipe	Zekt	DN 140, PN4,6.3,8,10,12.5,16,20,25 – variable length	20 <sup>th</sup> March 2020
Zekt Melbourne Pipe	Zekt Melbourne Pipe	Zekt	DN 90, PN4,6.3,8,10,12.5,16,20,25 – variable length	20 <sup>th</sup> March 2020
Zekt Melbourne Pipe	Zekt Melbourne Pipe	Zekt	DN 110, PN4,6.3,8,10,12.5,16,20,25 – variable length	20 <sup>th</sup> March 2020



# Product Schedule

Model Id	Model Name	Brand Name	Product Description	Endorsement Date
Zekt Melbourne Pipe	Zekt Melbourne Pipe	Zekt	DN 125, PN4,6.3,8,10,12.5,16,20,25 – variable length	20 <sup>th</sup> March 2020
DN16	DN16	Huon Aqua	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN20	DN20	Huon Aqua	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN25	DN25	Huon Aqua	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN32	DN32	Huon Aqua	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN40	DN40	Huon Aqua	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN50	DN50	Huon Aqua	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN63	DN63	Huon Aqua	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN75	DN75	Huon Aqua	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN90	DN90	Huon Aqua	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN110	DN110	Huon Aqua	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN125	DN125	Huon Aqua	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN140	DN140	Huon Aqua	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN160	DN160	Huon Aqua	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN180	DN180	Huon Aqua	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN200	DN200	Huon Aqua	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN225	DN225	Huon Aqua	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN250	DN250	Huon Aqua	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN280	DN280	Huon Aqua	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN315	DN315	Huon Aqua	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN355	DN355	Huon Aqua	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN400	DN400	Huon Aqua	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN450	DN450	Huon Aqua	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN500	DN500	Huon Aqua	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020
DN560	DN560	Huon Aqua	Pipe - PN 4, 6.3, 8, 10, 12.5, 16, 20, 25 variable length	20 <sup>th</sup> March 2020

## **APPENDIX C - SUPPLIER CONTACTS**

### **ZEZT PTY LTD**

#### **Wynyard**

Address 10 Terra Nova Drive  
Wynyard. Tasmania 7325  
Phone 03 64432 2699  
Email [sales@zest.com.au](mailto:sales@zest.com.au)  
Web [www.zezt.com.au](http://www.zezt.com.au)

#### **Derrimut**

Address 42 Calarco Drive  
Derrimut Victoria 3030  
Phone: 03 8375 1561





**Melbourne Office**

Level 8, Suite 8.02  
401 Docklands Drive  
Docklands VIC 3008

**Sydney Office**

Level 9 420 George Street  
Sydney NSW 2000  
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Sydney NSW 2001

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email: [info@wsaa.asn.au](mailto:info@wsaa.asn.au)

[www.wsaa.asn.au](http://www.wsaa.asn.au)