

WSAA PRODUCT APPRAISAL CERTIFICATE

Clover Pipelines Pty Ltd

Clover/Rohr - Polyethylene (PE) Pressure Pipe

This Appraisal is for a range of Rohr Series 1 PE100 and PE100 HSCR plain wall pipes manufactured in sizes from DN 16 to DN 800 with pressure classifications from PN 4 to PN 25 in accordance with AS/NZS 4130:2018 – *Polyethylene (PE) pipes for pressure applications*.

This Issue 4 is to include High Stress Crack Resistant (HSCR) pipes.

Pipes are available in lengths of 6 m or 12 m for all sizes and pressure ratings. DN 16 to DN 180 pipes are available in coil lengths up to 500 m depending on size and pressure class.

Rohr PE100 pipes are available as black, black with blue, purple or cream stripes or co-extruded jackets for drinking water, non-drinking water and pressure or non-pressure sewer applications respectively.

Quality and Product Certification details of products listed in this certificate are referenced in Schedule A.

Product Category	PE Pipes
PA Number:	PA 2033 Issue 4
Supplier	Clover Pipelines Pty Ltd
Brand	Clover/Rohr
Standards	AS/NZS 4130:2018 – <i>Polyethylene (PE) pipes for pressure applications</i> .
WSAA Product Specification	<p>WSA PS 207 – <i>Polyethylene (PE) Pipes for Pressure Applications – Drinking Water, Non-Drinking Water Supply and Sewerage</i></p> <p>WSA PS 215 – <i>Polyethylene (PE) Property Service Pipes for Pressure Applications – Drinking Water and Non-Drinking Water Supply</i></p> <p>WSA PS 242 - <i>Polyethylene (PE) Plain Wall Pipes and Fittings for Non-Pressure Applications-Sewerage</i></p>
Issue date	21 February 2024
Expiry date	2 June 2025
Recommendations	It is recommended that WSAA members, subject to any specific requirements of the member, accept or authorise the Clover/Rohr range of PE100 pipes for use in water supply and pressure or non-pressure sewerage pipelines, provided they are installed in accordance with WSAA Codes and the manufacturers requirements, where specified.
Disclaimer	The disclaimer on Page 2 explains a number of very important limits on your ability to rely on the information in this Product Appraisal Certificate and the assessment criteria used to underlie it. Please read it carefully and take into account when considering the content in this Certificate.

1. Disclaimer

This Product Appraisal Certificate (Certificate) is issued by WSAA on the understanding that:

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

To maintain the recommendations of this Certificate any such changes shall be detailed and notified to the Product Appraisal Manager for consideration and review of the Certificate including the product appraisal criteria underlying it 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. Certificates will be reviewed and reissued at regular intervals not exceeding five (5) years.

WSAA reserves the right to withdraw this Certificate at any time in its sole and absolute discretion for any reason.

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

Any enquiries regarding this Certificate should be directed to the Product Appraisal Manager Phone: 03 8605 7601 email carl.radford@wsaa.asn.au.

1.1. Issue of Certificate

This Certificate has been published and/or prepared by WSAA and nominated Project Manager and peer group of technical specialists (the Publishers).

The Certificate and the underlying product appraisal criteria have been prepared for use within Australia only by technical specialists that have expertise in the function of products such as those appraised in the Certificate (the Recipients).

By accepting this Certificate, the Recipient acknowledges and represents to the Publisher(s) and each person involved in the preparation of the Certificate and product appraisal criteria underlying it that the Recipient has understood and accepted the terms of this Disclaimer.

1.2. Limits on Reliance on Information and Recommendations

1.2.1. Disclaimer of liability

Neither the Publisher(s) nor any person involved in the preparation of the Certificate and product appraisal criteria underlying it 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 Certificate or the product appraisal criteria underlying it. This includes (without limitation) any liability for any recommendation or information in the Certificate or any errors or omissions.

1.2.2. Intellectual Property and other rights

WSAA does not undertake any assessment of whether the importation, manufacture, sale or use of the Product the subject of this Certificate infringes the intellectual property rights or proprietary rights of any person. Recipients of the Certificate should undertake their own assessment of whether (as relevant) the importation, manufacture, sale or use of the relevant Products infringe the intellectual property rights or other proprietary rights of any person. If the Product infringes intellectual property rights or other proprietary rights there is potential for the supply of the Products to be interrupted.

From time to time WSAA and the other Publishers may receive notice of allegations that the importation, manufacture, sale or use of the Product infringes intellectual property rights or other proprietary rights. WSAA's policy is to not refer to such allegations in its Certificate or take any other steps to put Recipients on notice of such allegations. If, however, WSAA becomes aware that the allegations have been admitted or proved in Court, then WSAA may, at its discretion, take such steps as it considers appropriate. As such, Recipients acknowledge, agree and accept that WSAA may have information in its possession about intellectual property rights infringement allegations or other infringement allegations in relation to the Product which are not referred to or disclosed in this Certificate and which are not otherwise communicated to Recipients.

1.2.3. Need for independent assessment

The information and any recommendation contained (expressly or by implication) in this Certificate are provided in good faith (and subject to the limitations noted in this Certificate). 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 Certificate does not contain all information that a person might require for the purposes of assessing any product discussed or appraised within it. The product appraisal criteria used in preparing this Certificate 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 Certificate, 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.

1.3. No Updating

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

1.4. No Warranty

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

QUALITY AND PRODUCT CERTIFICATIONS

Copies of the following Quality Certificates are available from WSAA.

SCHEDULE A1 CLOVER PIPELINES PTY LTD - MANAGEMENT SYSTEM

237 Rex Road Campbellfield VIC

Quality Systems Standard	ISO 9001:2015
Certification Licence No.	AMI-QM-78026
Certifying Agency	ApprovalMark International
First Date of Certification	26 August 2019
Current Date of Certification	4 October 2022
Expiry Date of Certification	26 August 2025

SCHEDULE A2 ROHR PTY LTD - MANAGEMENT SYSTEM

145 Cobalt Street Carol Park Queensland

Quality Systems Standard	ISO 9001:2015
Certification Licence No.	QMS 78029
Certifying Agency	ApprovalMark International
First Date of Certification	6 August 2020
Current Date of Certification	6 August 2023
Expiry Date of Certification	6 August 2026

SCHEDULE A3 ROHR PTY LTD - PRODUCT CERTIFICATION

145 Cobalt Street Carol Park Queensland

Product Standard/Spec	AS/NZS 4130:2018
Certificate No.	AMI 74778
Certifying Agency	ApprovalMark International
First Date of Certification	3 December 2018
Current Date of Certification	4 December 2023
Expiry Date of Certification	3 December 2028



PRODUCT LITERATURE

POLYETHYLENE (PE) PIPELINES

**CLOVER
PE PIPE**



Polyethylene (PE) pipe offers durable and flexible solutions for a wide range of applications and is widely used for water reticulation, drainage, rising mains, domestic cold water mains, irrigation and mining application.

Polyethylene pipe systems are resistant to corrosion and its flexibility allows it to withstand ground movement.

(PE) pipe can be joined with electrofusion connections, compression fittings or butt welded and as a flexible fully welded system has become the products of choice for trenchless and pipe bursting applications.



POLYETHYLENE PE100 - SERIES 1 (AS/NZS4130) PIPE CHART

PRODUCT	
STANDARDS:	AS/NZS4130:2018
PIPE SERIES:	Series 1
SIZE RANGE:	DN16 - DN800
MATERIAL:	PE100 Polyethylene
USES:	Water & Waste Water Applications
PRESSURE RATINGS:	up to PN25
COLOURS & USE:	
Black with Blue Stripe	Potable Water
Black with Lilac Stripe	Recycled Water
Black with Cream Stripe	Sewer
PN:	Pipe Nominal Pressure Rating
SDR:	Ratio of OD to Pipe Wall thickness

PN	4	6.3	8	10	12.5	16	20	25	Coil Lengths Available	Pipe Lengths Available
SDR	41	26	21	17	13.6	11	9	7.4		
DN										
16	-	-	-	-	-	✓	✓	✓	up to 300m	6 or 12 m
20	-	-	-	-	✓	✓	✓	✓	up to 200m	6 or 12 m
25	-	-	-	✓	✓	✓	✓	✓	up to 200m	6 or 12 m
32	-	-	✓	✓	✓	✓	✓	✓	up to 500m	6 or 12 m
40	-	-	✓	✓	✓	✓	✓	✓	up to 500m	6 or 12 m
50	-	-	✓	✓	✓	✓	✓	✓	up to 500m	6 or 12 m
63	-	✓	✓	✓	✓	✓	✓	✓	up to 500m	6 or 12 m
75	-	✓	✓	✓	✓	✓	✓	✓	up to 300m	6 or 12 m
90	-	✓	✓	✓	✓	✓	✓	✓	up to 300m	6 or 12 m
110	✓	✓	✓	✓	✓	✓	✓	✓	up to 200m	6 or 12 m
125	✓	✓	✓	✓	✓	✓	✓	✓	up to 200m	6 or 12 m
140	✓	✓	✓	✓	✓	✓	✓	✓	up to 125m	6 or 12 m
160	✓	✓	✓	✓	✓	✓	✓	✓	up to 100m	6 or 12 m
180	✓	✓	✓	✓	✓	✓	✓	✓	up to 100m	6 or 12 m
200	✓	✓	✓	✓	✓	✓	✓	✓	-	6 or 12 m
225	✓	✓	✓	✓	✓	✓	✓	✓	-	6 or 12 m
250	✓	✓	✓	✓	✓	✓	✓	✓	-	6 or 12 m
280	✓	✓	✓	✓	✓	✓	✓	✓	-	6 or 12 m
315	✓	✓	✓	✓	✓	✓	✓	✓	-	6 or 12 m
355	✓	✓	✓	✓	✓	✓	✓	✓	-	6 or 12 m
400	✓	✓	✓	✓	✓	✓	✓	✓	-	6 or 12 m
450	✓	✓	✓	✓	✓	✓	✓	✓	-	6 or 12 m
500	✓	✓	✓	✓	✓	✓	✓	✓	-	6 or 12 m
560	✓	✓	✓	✓	✓	✓	✓	✓	-	6 or 12 m
630	✓	✓	✓	✓	✓	✓	✓	✓	-	6 or 12 m
710	✓	✓	✓	✓	✓	✓	✓	✓	-	6 or 12 m
800	✓	✓	✓	✓	✓	✓	✓	✓	-	6 or 12 m

The products shown form part of Clover's continuous improvement program and as such the product design, specifications and materials may change without notice.

All warranties relating to accuracy, completeness, or suitability for any particular purpose and all liability for any loss, damage or costs incurred relating to the use of this information are excluded.

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