

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 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*.

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 2 |
| 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 – Water Supply and Sewerage</i></p> <p>WSA PS 215 – <i>Polyethylene (PE) Property Service Pipes for Pressure Applications – 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 | Wednesday 28 October 2020 |
| Expiry date | Monday 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.

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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 and Product Certification Certificates are available for downloading from the WSAA members only website.

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 |
| Current Date of Certification | 26 August 2019 |
| Expiry Date of Certification | 26 August 2022 |

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 2020 |
| Expiry Date of Certification | 6 August 2023 |

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 | 29 th April 2020 |
| Expiry Date of Certification | 16 December 2021 |



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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