

# WSAA PRODUCT APPRAISAL CERTIFICATE

## Clover Pipelines Pty Ltd Clover/Samsun Ductile Iron Pipes

This appraisal addresses Clover/Samsun ductile iron pipes suitable for conveyance of drinking water, recycled, raw, bore and irrigation waters, slurries and sewage.

The scope of this appraisal includes ductile iron pipe in sizes DN 100 to DN 600 with spigot and socket elastomeric joints manufactured to AS/NZS 2280:2014 *Ductile iron pipes and fittings*.

Pipes with PN20 pressure classification are available in sizes from DN 225 to DN 600 whilst pipes with PN35 and Flange Class pressure classifications are available in sizes from DN 100 to DN 600.

The pipes may be internally lined with General Purpose (GP) Portland Cement for drinking and non-drinking water applications or Calcium Aluminate Cement for sewerage and aggressive waters. Seal coating is supplied as standard for sizes up to DN 300 and is available for larger sizes upon request.

The external coating options are metallic zinc coating or zinc-aluminium alloy with a two-part epoxy finishing layer.

A complete listing of Quality and Product Certification Certificates and details of products are included in the attached Schedules A and B.

<b>Product Category</b>	Ductile iron pipes
<b>PA Number:</b>	PA 1928
<b>Supplier</b>	Clover Pipelines Pty Ltd
<b>Brand</b>	Clover/Samsun
<b>Standards</b>	AS/NZS 2280:2014 <i>Ductile iron pipes and fittings</i>
<b>WSAA Product Specification</b>	<i>WSA PS-200 Ductile Iron Pipes (CIOD) for Pressure Applications – Water Supply and Sewerage.</i>
<b>Issue date</b>	11 February 2020
<b>Expiry date</b>	11 February 2025
<b>Recommendations</b>	It is recommended that WSAA members, subject to any specific requirements of the member, accept or authorise the Clover/Samsun range of ductile iron pipes as detailed in this report for use in water supply and sewerage applications subject to any relevant conditions relating to the design, installation and acceptance testing being in accordance with the relevant WSAA Codes and manufacturer's requirements.
<b>Disclaimer</b>	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 underlay it. Please read it carefully and take it 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

## APPENDIX A - QUALITY AND PRODUCT CERTIFICATIONS

Copies of the following Quality and Product Certification Certificates are available for downloading from the WSAA 'Members Only' project portal website.

**TABLE A1 CLOVER PIPELINES PTY LTD – MANAGEMENT SYSTEMS**

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

**TABLE A2 SAMSUN MAKINA SANAYI A.S. – MANAGEMENT SYSTEMS**

41 55060 Kutlukent, Tekkekoy, Samsun, Turkey	
Quality Systems Standard	ISO 9001:2015
Certification licence no.	TR008359
Certifying agency	Bureau Veritas
First date of certification	1 August 1998
Current date of certification	12 July 2019
Expiry date of certification	25 July 2022

**TABLE A3 SAMSUN MAKINA SANAYI A.S. – MANAGEMENT SYSTEMS**

Bulvari No. 15 Saricam, Adana, Turkey	
Quality Systems Standard	ISO 9001:2015
Certification licence no.	GC-16-1604
Certifying agency	Goldcert
First date of certification	28 June 2016
Current date of certification	15 June 2019
Expiry date of certification	14 June 2022

**TABLE A4 CLOVER PIPELINES PTY LTD – PRODUCT CERTIFICATION**

237 Rex Road Campbellfield VIC	
Product Standard/Spec.	AS/NZS 2280:2014
Certificate No.	AMI 74795
Issuing certification body	Approval Mark International
First date of certification	15 August 2019
Current date of certification	15 August 2019
Expiry date of certification	14 August 2022

**CLOVER/SAMSUN DICL PIPE DIMENSIONS**

DN	Pipe OD (mm)	Nominal Pipe Wall Thickness (mm)		
		PN20	PN35	Flange Class
100	122	-	4.9	7.4
150	177	-	5.0	7.5
200	232	-	5.0	8.5
225	259	4.5	5.0	8.5
250	286	4.6	5.2	9.6
300	345	4.6	5.9	9.6
375	426	4.8	7.0	10.7
450	507	5.4	8.1	11.8
500	560	5.8	8.8	11.8
600	667	6.7	10.2	12.9

**COATING AND LINING OPTIONS**

Lining	Coating	Finishing Layer	Seal Coat
GP Cement	Zn 200g/m <sup>2</sup>	Black epoxy 80µm min	Bitumen 70µm
	ZnAl 400g/m <sup>2</sup>	Blue epoxy 100µm min	Bitumen 70µm
CAC Cement	ZnAl 400g/m <sup>2</sup>	Red epoxy 100µm min	-

Seal coats are supplied as default for sizes up to DN 300. Larger sizes may be seal coated to order.