

# WSAA PRODUCT APPRAISAL CERTIFICATE

## Clover Pipelines Pty Ltd - SUPERLIT® Filament Wound GRP Jacking Pipes for Non-Pressure Sewerage Applications.

**SUPERLIT jacking pipe and fittings have been appraised for compliance with the requirements of ISO 25780:2011 and WSAA Product Specification WSA PS 206J.**

The scope of this appraisal applies to SUPERLIT jacking pipes and their grade 316 stainless steel and GRP couplings, for non-pressure sewerage applications using various trenchless installation methods such as slip lining, micro tunneling and pipe jacking. A listing of Quality and Product Certification Certificates and details of products is included in the attached Schedules A and B.

<b>Product Category</b>	GRP Pipe Systems
<b>PA Number:</b>	PA 1816 Issue 2
<b>Supplier</b>	Clover Pipelines Pty Ltd
<b>Brand</b>	SUPERLIT
<b>Standards</b>	ISO 25780 – <i>Plastic piping systems for pressure and non-pressure water supply, irrigation, drainage or sewer - Glass-reinforced thermosetting plastics (GRP) systems based on unsaturated polyester (UP) resin – Pipes with flexible joints intended to be installed using jacking techniques</i>
<b>WSAA Product Specification</b>	WSA PS – 206J – <i>Filament Wound Glass Reinforced Plastics (FW-GRP) Pipes for Pressure and Non-Pressure Applications – Water Supply and Sewerage - Installed Using Trenchless Installation Methods</i>
<b>Other Specifications</b>	
<b>Issue date</b>	Issue 1: Friday 26 October 2018. Issue 2: Thursday 28 November 2019
<b>Expiry date</b>	Friday, 29 October 2021
<b>Recommendations</b>	It is recommended that WSAA members, subject to any specific requirements of the member, accept or authorise the SUPERLIT FW GRP jacking pipe as detailed in the report for use in non-pressure sewerage applications for installation using trenchless techniques, provided the design, installation and commissioning are in accordance with applicable WSAA Codes and the manufacturer's requirements, where specified.
<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](mailto: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 and Product Certification Certificates are available for downloading from the WSAA 'Members Only' project portal website.

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

141 National Boulevard, Campbellfield, Victoria 3061	
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 - SUPERLIT BORU VE LEVHA SANAYI A.Ş – MANAGEMENT SYSTEMS**

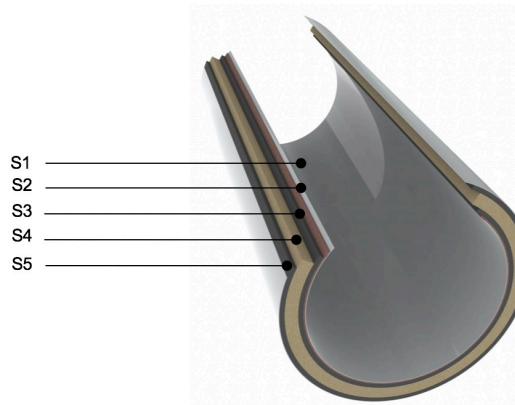
Cele Mah. Duzce Cad. No:33 81900 Kaynasli, Duzce Turkey	
Quality Systems Standard	ISO 9001:2015
Certification licence no.	01 100 1715894
Certifying agency	TUV Rheinland
First date of certification	2012
Current date of certification*	16 October 2018
Expiry date of certification**	15 October 2021

**SCHEDULE A3 SÜPERLIT BORU VE LEVHA SANAYI A.Ş – PRODUCT CERTIFICATION**

Cele Mah. Duzce Cad. No:33 81900 Kaynasli, Duzce Turkey	
Product Standard/Spec.	ISO 25780:2011
Certificate No.	CTC.TR299.5320.18. B16 / 001
Issuing certification body	Bureau Veritas
Current date of certification	10 April 2019
Expiry date of certification	10 April 2022

PRODUCT LITERATURE

SUPERLIT FW GRP JACKING PIPES



- S1: Inner Liner Layer
- S2: Structural Layer
- S3: Core Layer
- S4: Structural Layer
- S5: Outer Layer

FIGURE B1 JACKING PIPE CONSTITUENTS

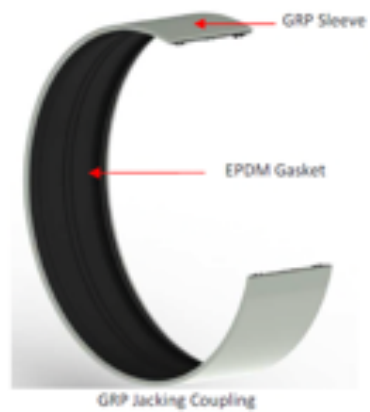
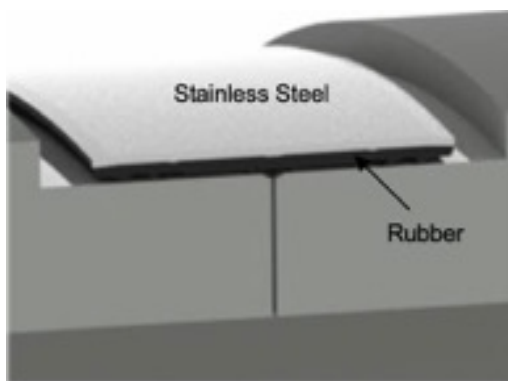


FIGURE B2 STAINLESS STEEL AND GRP COUPLINGS

**TABLE B1 NOMINAL SIZES AND OUTSIDE DIAMETERS**

Nominal Diameter (mm)	Outside Diameter (mm)
300	324
300-AU	345*
350	376,4
375-AU	426*
400	427,3
450	475,8
450-AU	507*
500	530,3
525-AU	587*
600	633
600-AU	667*
700	718,5
675-AU	747*
800	820,5
750-AU	826*
900	924
1000	1025,5
1100	1125,5
1200	1229
1300	1331,5
1400	1433,5
1500	1536,5
1600	1638,5
1700	1739,5
1800	1841,5
1900	1944,5



## SCHEDULE B

2000	2046
2100	2148,5
2200	2250,5
2300	2354
2400	2454
2500	2553,5
2600	2657,5
2700	2758,5
2800	2858,8
2900	2962,5
3000	3065

Note: \* sizes as per AS 3571.1 Appendix ZZ, Table 5 (Series B1, B2, B3 and B4)

## **Clover Pipelines Pty Ltd**

### **Melbourne (Victoria, South Australia and Tasmania)**

237 Rex Road,  
Campbellfield Vic 3061  
Phone: 03 8373 8000

Email: [vic@cloverpipe.com.au](mailto:vic@cloverpipe.com.au)

### **Sydney (New South Wales and Australian Capital Territory)**

49-53 Newton Road  
Wetherill Park NSW 2164  
Phone: 02 8279 8000

Email: [nsw@cloverpipe.com.au](mailto:nsw@cloverpipe.com.au)

### **Brisbane (Queensland and Northern Territory)**

8/17 Boniface Street  
Archerfield Qld 4108  
Phone: 07 3073 7000

Email: [qld@cloverpipe.com.au](mailto:qld@cloverpipe.com.au)

### **Perth (Western Australia)**

10 Radich Chase  
Wangarra WA 6065  
Phone: 08 6166 6800

Email: [wa@cloverpipe.com.au](mailto:wa@cloverpipe.com.au)

### **International Enquiries**

Phone: +61 3 8373 8000