

WSAA PRODUCT APPRAISAL CERTIFICATE

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

This appraisal is for SUPERLIT® Filament Wound (FW) Glass Reinforced Plastic (GRP) jacking pipes for non-pressure applications.

This Issue 3 is a replacement for the previous version of the appraisal which had reached its 5-year expiry date.

The jacking pipe considered in this Appraisal includes sizes from DN 300 to DN 3000 with nominal pressure classifications from PN1 to PN10 and stiffness ratings from 20,000 to 1,000,000 N/m².

A listing of Quality Certificates and details of products is included in the attached Schedules A and B.

Product Category	GRP Pipe Systems
PA Number:	PA 1816 Issue 3
Supplier	Clover Pipelines Pty Ltd
Brand	SUPERLIT
Standards	ISO 25780:2011 – <i>Plastics piping systems for pressure and non-pressure water supply, irrigation, drainage or sewerage - Glass-reinforced thermosetting plastics (GRP) systems based on unsaturated polyester (UP) resin – Pipes with flexible joints intended to be installed using jacking techniques.</i>
WSAA Product Specification	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>
Other Specifications	
Issue date	17 October 2023
Expiry date	26 October 2028
Recommendations	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.
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 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

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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 SYSTEMS

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 - SUPERLIT BORU VE LEVHA SANAYI A.Ş – MANAGEMENT SYSTEMS

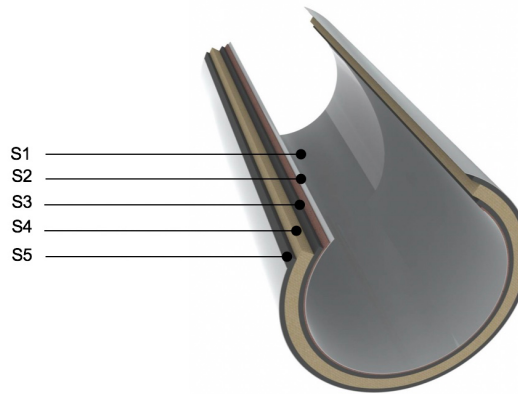
Karacali Mah. Duzce Cd. No:58 81900 Kaynasli, Duzce Turkey	
Quality Systems Standard	ISO 9001:2015
Certification Licence No.	01 100 1715894
Certifying Agency	TUV Rheinland
First Date of Certification	2012
Current Date of Certification	16 October 2021
Expiry Date of Certification	15 October 2024

SCHEDULE A3 - SÜPERLIT BORU SANA.Ş – PRODUCT CERTIFICATION

Karacali Mah. Duzce Cd. No:58 81900 Kaynasli, Duzce Turkey	
Product Standard/Spec.	ISO 25780:2011
Certificate No.	22-IS-0807-TAT-22-ISO 27580-3576
Issuing Certification Body	TUV Austria
Current Date of Certification	24 May 2022
Expiry Date of Certification	24 May 2025

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

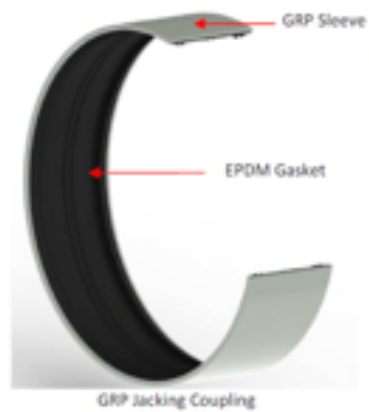
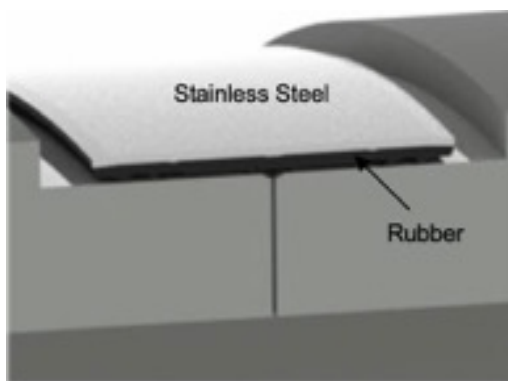


FIGURE B2 STAINLESS STEEL AND GRP COUPLINGS



TABLE B1 PIPE SIZES

Outside Diameter mm	Inside Diameter mm	Outside Diameter mm	Inside Diameter mm
345	326.4	1348	1275.0
376	355.8	1399	1323.4
427	404.0	1434	1357.0
478	452.2	1499	1418.6
515	487.2	1536	1453.4
530	501.6	1638	1550.0
550	520.4	1720	1628.0
618	616.5	1842	1743.0
650	584.8	1944	1839.4
718	679.6	2046	1936.9
760	718.0	2160	2044.0
820	776.0	2250	2129.0
860	814.0	2453	2321.0
924	874.0	2553	2416.0
960	908.0	2658	2514.5
1026	971.0	2758	2610.0
1099	1040.0	2858	2704.0
1127	1066.6	2962	2803.0
1229	1163.9	3065	2901.0
1290	1220.0		

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