

WSAA PRODUCT APPRAISAL CERTIFICATE

Future Pipe Industries LLC
Fiberstrong® Filament Wound Glass Reinforced Thermoplastic (GRP)
Pressure and Non-pressure Pipe for Water Supply Applications
(DN 80 – DN 3000)

This appraisal addresses Future Pipe Industries Fiberstrong filament wound GRP pipes suitable for pressure and non-pressure water supply applications.

The pipes are manufactured in accordance with AS 3571.2 – *Plastics piping systems – Glass reinforced thermoplastics (GRP) systems based on unsaturated polyester (UP) resin. Part 2: Pressure and non-pressure water supply (ISO 10639:2004, MOD)* with pressure classifications from PN 1 to PN 32 and diameters ranging from DN 80 to DN 3000.

Nominal pipe stiffnesses range from SN2500 to SN20000. Fiberstrong pipes for sewer applications are supplied in standard lengths of 2.75, 5.8 or 11.8m.

The spigot dimensions of Fiberstrong GRP pipe are Ductile Iron OD compatible for corresponding DN's.

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

Product Category	GRP Pipes
PA Number:	PA 2022
Supplier	Future Pipe Industries LLC
Brand	Fiberstrong®
Standards	AS 3571.2 – <i>Plastics piping systems – Glass reinforced thermoplastics (GRP) systems based on unsaturated polyester (UP) resin. Part 2: Pressure and non-pressure water supply (ISO 10639:2004, MOD)</i>
WSAA Product Specification	WSA PS 205S <i>Glass Reinforced Plastic (GRP) Pipe and Fittings for Pressure and Non-Pressure Applications – Sewerage</i>
Issue date	22 July 2020
Expiry date	21 July 2025
Recommendations	It is recommended that WSAA members, subject to any specific requirements of the member, accept or authorise Fiberstrong Filament Wound GRP pipes and fittings as detailed in the WSAA Appraisal report for use in pressure and non-pressure water supply applications, provided they are installed in accordance with any relevant conditions relating to the design, installation, and acceptance testing provided in relevant standards, WSAA Codes and the manufacturer's requirements.
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

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.

TABLE A1 FUTURE PIPE INDUSTRIES LLC – MANAGEMENT SYSTEMS

Sector M-41, Mussafah, Abu Dhabi United Arab Emirates	
Quality Systems Standard	ISO 9001:2015
Certification Licence No.	IND18.9203U/Q
Certifying Agency	Bureau Veritas
First Date of Certification	24 April 1996
Current Date of Certification	5 June 2018
Expiry Date of Certification	6 June 2021

TABLE A2 FUTURE PIPE INDUSTRIES LLC – MANAGEMENT SYSTEMS

Jl Raya Serang KN.30 Kelurahan Gembong Dan Cangkuda Kecamatan Balaraja Tangerang Indonesia	
Quality Systems Standard	ISO 9001:2015
Certification Licence No.	FM 725130
Certifying Agency	BSI
First Date of Certification	24 April 2014
Current Date of Certification	24 April 2020
Expiry Date of Certification	23 April 2023

TABLE A3 FUTURE PIPE INDUSTRIES LLC – PRODUCT CERTIFICATION

Sector M-41, Mussafah, Abu Dhabi United Arab Emirates	
Product Standard/Spec.	AS 3571.2:2009
Certificate No.	12554-2018-WM-AUS-JAS-ANZ
Issuing Certification body	DNV-GL
First Date of Certification	1 May 2018
Current Date of Certification	1 May 2018
Expiry Date of Certification	1 May 2021

TABLE A4 FUTURE PIPE INDUSTRIES LLC– PRODUCT CERTIFICATION

JI Raya Serang KN.30 Kelurahan Gembong Dan Cangkuda Kecamatan Balaraja Tangerang Indonesia	
Product Standard/Spec.	AS 3571.2:2009
Certificate No.	10000330559-PA-JAS-ANZ-AUS
Issuing Certification body	DNV-GL
First Date of Certification	4 December 2019
Current Date of Certification	4 December 2019
Expiry Date of Certification	4 December 2022

SUPPLIER CONTACTS

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