



Flowtite[®] CFW-GRP



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FLOWTITE® PIPE SYSTEMS

Flowtite® GRP Pipe is a highly engineered Glass Reinforced Plastic composite piping product which provides high strength and excellent corrosion resistance across a wide range of diameters and pressures.

Flowtite® GRP Pipe is manufactured in a continuous, automated process which allows for rapid production rates with excellent quality control.

Manufactured locally by RPC Pipe Systems, Flowtite® has more than 22 plants around the world and nearly 50 years experience in manufacturing high quality GRP for a wide range of applications.

A complete range of Flowtite® GRP fittings are also available to ensure you can meet any design requirements.

PRODUCT RANGE

Lightweight, corrosion resistant and manufactured under strict quality standards, Flowtite® Glass Reinforced Plastic (GRP) Pipe is suited to water, sewer and industrial applications.

The manufacturing process uses a continuous advancing mandrel. Materials are applied to produce a series of layers which give both high pressure resistance and the required pipe stiffness.

Manufactured to AS 3571.1 and AS 3571.2 and complies with the requirements of AS/NZS 4020 for use in contact with drinking water.

GRP FITTINGS

Flowtite® also manufacture a complete range of GRP fittings for use with Flowtite® GRP piping systems. Typical fittings include Bends from 11.25° to 90°, equal and reducing Tees, Flanges, End Caps and Manhole Connectors.

GRP PIPE LENGTHS - SN10,000

Available in 3 or 6 meter lengths

Nominal Diameter	Outside diameter	PN1 Inside Diameter	PN16 Inside Diameter
300	345	330	331
375	426	408	409
450	507	486	488
500	560	537	539
525	587	563	565
600	667	640	642
675	747	717	720
750	826	793	796
980	923	887	890
1000	1025	985	989
1100	1127	1083	1088
1200	1229	1181	1186

*Options available up to PN16 and SN20,000

Continuous filament wound

Low to high pressure open trench

General Civil market

Made in Adelaide

Diameter range: 300mm - 1,200mm

Stiffness: 10,000 - 20,000 N/m²

Pressures: Up to 16 bar

Nominal Lengths: 3m, 6m

SUSTAINABILITY

GRP has quickly earned a reputation around the world as being one of the most sustainable pipeline materials. It has both significant environmental benefits and an extensive 150 year service life that makes it economically sustainable.

Flowtite® can greatly improve the environmental sustainability on your next pipeline project; its lighter weight means ease of transportation and it takes less energy to produce than other materials. Manufacturing locally in Australia means less freight distance for an overall smaller carbon footprint and a faster arrival time.

The smooth internal lining of Flowtite® GRP has a greater flow coefficient which allows pipeline to be designed with a smaller diameter, while still achieving the same flow rate. This means installations can be carried out more safely with narrow trenches and with less of an impact to existing vegetation.

GRP is the sustainable choice with 150 year service life

Doesn't break down when exposed to the elements, unlike other plastics.

More efficient transport methods creating a smaller carbon footprint.

Installation can be carried out with less impact on existing vegetation.

WHY FLOWTITE® GRP?

Corrosion resistant

- Long and effective service life of 150 years
- No need for linings, coatings, cathodic protection or other forms of corrosion protection
- Low maintenance costs
- Suitable for contaminated soils
- Hydraulic characteristics do not degrade over time
- Can transport mediums from pH1 to pH14

Compatible with existing pipelines

- Compatible with Series 2 PVC and Ductile Iron up to DN750, as typically used in Australia

Smooth Bore

- Internal pipe lining has an equivalent roughness of only 0.020
- Lower friction means less energy consumption and lower operating costs

Lightweight

- Only a quarter of the weight of ductile iron and one tenth the weight of concrete
- Greatly reduced risk of injury during handling and installation
- Lower transport costs, also resulting in a reduced carbon footprint
- Reduced need of expensive plant for installation





STANDARDS

Product

- AS 3571.1-2009 GRP piping systems. Part 1: Pressure and non-pressure drainage and sewerage
- AS 3571.2-2009 GRP piping systems. Part 2: Pressure and non-pressure water supply

Design

- AS/NZS 2566.1 Buried Flexible Pipelines, Part 1: Structural Design

Installation

- AS/NZS 2566.2 Buried Flexible Pipelines, Part 2: Installation

Additional Product Approvals

- Water Services Association of Australia (WSAA)
- Bureau Veritas 'S' Mark ISO Type 5 Licences



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