

FirePlus® Pipe

FirePlus® is certified for use in hydrant and sprinkler fire protection systems and is listed under the ActivFire® scheme. Antec FirePlus® is a high strength pipe which is surface protected by hot-dipped galvanising (HDG300) externally and internally with a minimum average mass of 300 grams/m².

FirePlus® roll grooved pipe forms part of a mechanical joint system, which is connected by a range of couplings, fittings and valves. The mechanical coupling systems enables quick joint release and repair to line blockages without the need of costly replacement components. It assists with reduced down time and material costs.

Antec also supply a full range of Victaulic roll groove fittings and valves.



Standards and Specifications

- AS 4118.2.1 Fire Sprinkler Systems-Piping-General
- AS 4792 Hot-Dip galvanised coatings on ferrous hollow sections
- SSL Appraisal Specification

End Finish

Plain and roll grooved end pipe

End Coating Repair

Antec suggest that if grooving occurs in field that any damaged zinc coating be repaired in accordance with Appendix D of AS4792:1999

FirePlus Roll-Grooved System Working Pressures

The allowable working pressures for a piping system using FirePlus® pipe and roll grooved couplings is 2Mpa (300psi) for general service and for UL listed and FM approved fire sprinkler and hydrant services.

Recommended Applications

FirePlus® HDG Sprinkler Pipes: Static and Dry Sprinkler systems as per AS4118.2.1-1995. FirePlus® HDG Hydrant Pipes: Fire Hydrant installations as per AS2419.1-2005.

Mechanical Properties

Minimum Yield Strength:	240MPa
Minimum Tensile Strength:	415MPa
Minimum Elongation:	15%





FirePlus® Pipe Size Range and Working Pressures

Section	Diameter	Wall Thickness	Length	Hydrant	Sprinkler	Maximum Safe Working Pressure	Mill and Maximum Commissioning Test Pressure
	(mm)	(mm)	(m)			(MPa)	(MPa)
15 NB	21.3	2.6	6.5	No	Yes	17.2	17.2
20 NB	26.7	2.6	6.5	No	Yes	17.2	17.2
25 NB	33.7	3.2	6.5	No	Yes	17.2	17.2
32 NB	42.4	3.2	6.5	No	Yes	14.5	17.2
40 NB	48.3	3.2	6.5	No	Yes	12.7	17.2
50 NB	60.3	3.6	6.5	No	Yes	11.5	17.2
65 NB	76.1	3.2	6.5	No	Yes	8.1	12.1
65 NB	76.1	3.6	6.5	No	Yes	9.1	13.6
80 NB	88.9	3.2	6.5	Yes	Yes	6.9	10.4
80 NB	88.9	4	6.5	Yes	Yes	8.7	13
100 NB	114.3	3.05	6.5	Yes	Yes	5.1	7.7
100 NB	114.3	4.5	6.5	Yes	Yes	7.6	11.3
150 NB	165.1	3.4	6.5	Yes	Yes	4	5.9
150 NB	165.1	5	6.5	Yes	Yes	5.8	8.7
200 NB	219.1	4.8	6	Yes	Yes	4.2	6.3
250 NB	273.1	4.8	6	Yes	Yes	3.4	5.1
300 NB	323.9	4.8	6	Yes	Yes	2.8	4.3

Notes:

- The above maximum recommended test and working pressures are applicable only to the pipe, if an only if the applied loads are only from internal pressure in straight pipe. The pipeline should be supported so that bending and external loads are avoided. The pipeline must be also set up with suitable freedom on angular movement at joints and bends and with provision to accommodate thermal expansion.
- The piping system working pressures can be limited by the type of couplings or the welding class used in the design of the pipeline.
- Pressures have been calculated in accordance with ASTM A135 test pressure calculation 4041-1998.
- No allowance has been made for corrosion, threading or machining.