

FirePlus® Pipe

Maximum Safe Working Pressures

Specification: 2462.CDR Grade 2900L0 (draft standard for pressure pipe) AS 4041 Class 2A

Outside Diameter	Wall Thickness	Standard Length	Mass per Metre (PE & Grooved)		Maximum Recommended Test Pressure		Maximum Safe Working Pressure	
mm	mm	mm	ILG kg / m	HDG kg / m	Kpa	P.S.I.	Kpa	P.S.I.
33.7	2.00	6.5	1.56	1.64	22,400	3,260	15,000	2170
42.4	2.00	6.5	1.99	2.1	17,600	2,560	11,800	1710
48.3	2.30	6.5	2.61	2.73	17,800	2,590	11,900	1720
60.3	2.30	6.5	3.29	3.44	14,100	2,050	9,430	1370
76.1	2.30	6.5	4.19	4.37	11,100	1,610	7,420	1080
88.9	2.60	6.5	5.53	5.75	10,800	1,560	7,170	1040
114.3	3.05	6.5	8.37	8.65	9,790	1,420	6,530	947
165.1	3.40	6.5	13.6	14.0	7,510	1,090	5,010	727

- The above maximum recommended test and working pressures are applicable only to the pipe, if and only if:
 - The working temperature is between 0°C to 100°C inclusive
 - 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 also be set up with suitable freedom of angular movement at joints and bends and with provision to accommodate thermal expansion.
 - The maximum working pressure is based on a design tensile strength of 156,000 Kpa at 100°C and makes an allowance for 90% of nominal wall thickness to allow for the minimum thickness tolerance of the relevant standard.
 - AS4041 limits the maximum pressure of this type of pipe (Class 2A) to MPa when carrying Very Harmful fluids (fluid type 2) and are Harmful gases (fluid type 3). This should be considered when designing pipelines.
 - Use of this pipe is prohibited where the pipe contents are Lethal (AS 4041 Fluid type 1).
- The piping system working pressures can be limited by the type of couplings or the welding class used in the design of the pipeline.
- AS 3920.1 gives information on the hazard level of pressure piping and other pressure equipment and the QA required to certify design, manufacture and installation.

Specifications are subject to change without notification.

