

FirePlus® Sprinkler Pipe

In-line Galvanized (ILG)



- **Galvanized External Finish**
- **Unique Markings**
- **SSL Listed – afp-1340 Light Wall Pipe**
– **afp-1356 Medium Wall Pipe**

onesteel
building services

FirePlus® ILG Light Wall Sprinkler Pipe



FirePlus® ILG Light Wall Sprinkler Pipe is manufactured in accordance with Australian Standard AS 4118:1995, SSL Listing Number afp-1340 and in accordance with F.A.S. 119.

FIREPLUS® ILG SPRINKLER PIPE – LIGHT WALL PIPE MASS AND BUNDLING DATA

Pipe Size		Wall Thickness mm	Standard Length m	Nominal mass			Metres per bundle m	Lengths per bundle #
OD mm	DN mm			ILG kg/m	Red painted kg/m	m/t		
42.4	32	2.0	6.5	1.99	-	502	396.5	61
48.3	40	2.3	6.5	2.61	-	383	396.5	61
60.3	50	2.3	6.5	3.29	-	304	240.5	37
76.1	65	2.3	6.5	4.19	-	239	240.5	37
88.9	80	2.6	6.5	5.53	-	181	123.5	19
114.3	100	3.05	6.5	8.37	-	120	123.5	19
165.1	150	3.4	6.5	-	13.6	73.8	65	10

Coatings

For pipe sizes up to and including 114.3mm OD, an in-line galvanized coating is applied to the external surface only. A minimum average zinc coating mass of 100 g/m² is applied in accordance with AS/NZS 4792:1999.

165.1mm OD pipe has a red painted external surface coating.

End Coating Repair

OneSteel recommends that if grooving occurs in the field that any damaged zinc coating be repaired in accordance with Appendix D of AS/NZS 4792:1999.

End Finish

Plain and grooved end pipe.

Please refer to the Groove Dimensional Chart on the back page of this brochure.

FirePlus® – Roll grooved system working pressures

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

Warning: For one time field test only, the maximum joint working pressure may be increased to 1.5 times the figures shown.

FirePlus® is a registered Trademark of OneSteel Trading Pty. Limited.
ActivFire™ is a registered Trademark of Scientific Services Laboratory.

For further technical information on pipe and coupling pressures please contact your local OneSteel Building Services location or visit our website at www.onesteelbuildingservices.com



FirePlus® ILG Medium Wall Sprinkler Pipe

FirePlus® ILG Medium Wall Sprinkler Pipe is manufactured in accordance with Australian Standard AS 4118:1995, SSL Listing Number afp-1356 and in accordance with F.A.S. 120.



OneSteel recommends FirePlus® ILG Sprinkler Pipe be used with screwed or roll grooved coupling systems*.

FIREPLUS® ILG SPRINKLER PIPE – MEDIUM WALL PIPE MASS AND BUNDLING DATA

Pipe Size		Wall Thickness	Standard Length	Nominal mass		Metres per bundle	Lengths per bundle
OD mm	DN mm	mm	M	ILG kg/m	m/t	m	#
33.7	25	3.2	6.5	2.41	415	591.5	91
42.4	32	3.2	6.5	3.09	323	396.5	61
48.3	40	3.2	6.5	3.56	281	396.5	61
60.3	50	3.6	6.5	5.03	199	240.5	37
76.1	65	3.6	6.5	6.44	155	240.5	37

Coatings

For sizes up to and including 76.1mm OD, an in-line galvanized coating is applied to the external surface only. A minimum average zinc coating mass of 100 g/m² is applied in accordance with AS/NZS 4792:1999.

End Coating Repair

OneSteel recommends that if grooving occurs in the field that any damaged zinc coating be repaired in accordance with Appendix D of AS/NZS 4792:1999.

End Finish

Plain, screwed or grooved end pipe.

Please note: For grooved end pipe OneSteel recommends the roll grooved coupling system be used. Please refer to the Groove Dimensional Chart on the back page of this brochure.

FirePlus® – Roll grooved system working pressures

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

Warning: For one time field test only, the maximum joint working pressure may be increased to 1.5 times the figures shown.

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For further technical information on pipe and coupling pressures, please contact your local OneSteel Fire Systems location or visit our website at www.onesteelbuildingservices.com

Recommended applications for FirePlus® ILG Light Wall and Medium Wall Sprinkler Pipes: Static and dry sprinkler systems.

FirePlus® ILG Light Wall and Medium Wall Sprinkler Pipes are **not recommended** for:

- Industrial or manufacturing fluid conveyance or processing installations
- Potable water supply (domestic, commercial and industrial) installations

WARRANTY

The FirePlus® ILG Sprinkler Pipe described in this brochure is sold subject to OneSteel's Terms and Conditions of Sale.

WARNINGS AND DISCLAIMERS

Application

OneSteel has manufactured this product for use only in the Recommended Application. Use in any other application is not recommended. OneSteel disclaims all liability for failure of the product when used other than in the Recommended Application.

Fluids

It is the responsibility of the specifying engineer and pipe installer to investigate and establish that the fluid supply to pass through the FirePlus® ILG Sprinkler Pipe will not be aggressive to the pipe.

Disclaimer

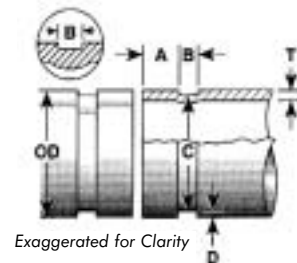
OneSteel disclaims liability for failure of FirePlus® ILG Sprinkler Pipe due to internal or external corrosion where aggressive fluids or other environmental factors, operational or maintenance events occur which detrimentally affect the product.



Groove Dimensions

BRITISH STANDARD ROLL GROOVE SPECIFICATIONS – BS 1387 CARBON STEEL PIPE

1			2			3			4		5	6	7
Pipe outside Diameter mm			Dimensions – millimeters										
			Gasket Seat A ±0.76			Groove Width B ±0.76			Groove Diameter C		Groove Depth D (ref.)	Nom. Min. Allow. Wall Thickness T	Max. Allow. Flare Dia.
Basic	Max.	Min.	Basic.	Max.	Min.	Basic	Max.	Min.	Max.	Min.			
33.7	33.73	33.07	15.88	16.64	15.12	7.14	7.90	6.38	30.23	29.85	1.60	1.65	36.3
42.4	42.57	41.76	15.88	16.64	15.12	7.14	7.90	6.38	38.99	38.61	1.60	1.65	45.0
48.3	48.74	47.78	15.88	16.64	15.12	7.14	7.90	6.38	45.09	44.70	1.60	1.65	51.1
60.3	60.93	59.72	15.88	16.64	15.12	8.74	9.50	7.98	57.15	56.77	1.60	1.65	63.0
76.1	76.96	75.44	15.88	16.64	15.12	8.74	9.50	7.98	72.26	71.81	1.98	2.11	78.7
88.9	89.79	88.11	15.88	16.64	15.12	8.74	9.50	7.98	84.94	84.48	1.98	2.11	91.4
114.3	115.44	113.51	15.88	16.64	15.12	8.74	9.50	7.98	110.08	109.57	2.11	2.11	116.8
165.1	166.70	164.31	15.88	16.64	15.12	8.74	9.50	7.98	160.78	160.22	2.16	2.77	167.6



Refer to column notes below.

STANDARDS/BS ROLL GROOVE SPECIFICATION NOTES

COLUMN 1: IPS outside diameter. Metric outside diameter. The outside diameter of roll grooved pipe shall not vary more than the tolerance listed. For metric pipe, the maximum allowable tolerance from square cut ends is 0.76mm for sizes 26.9 - 88.9mm; 1.14mm for sizes 114.3 - 168.3mm and 1.52mm for sizes 219.1mm and above, measured from the true square line.

COLUMN 2: Gasket seat. The pipe surface shall be free from indentations, roll marks, and projections from the end of the pipe to the groove, to provide a leak-tight seal for the gasket. All loose paint, scale, dirt, chips, grease and rust must be removed. It continues to be Onesteel's first recommendation that pipe be square cut. When using beveled pipe contact Onesteel for details. Gasket seat "A" is measured from the end of the pipe.

IMPORTANT: Roll grooving of beveled end pipe may result in unacceptable pipe end flare. See column 7.

COLUMN 3: Groove width. Bottom of groove to be free of loose dirt, chips, rust and scale that may interfere with proper coupling assembly. Roll Grooved Pipe: Corners at bottom of groove must be radiused. For IPS pipe, 1.52R on 26.9 - 48.3mm, 2.03R on 60.3 - 168.3mm, 1.27R on 219.1mm and up. For metric pipe, 38.1R on 26.9 - 48.3mm, 50.8R for 60.3 - 168.3mm, and 33.0R for 219.1mm and up.

Cut Grooved Pipe: Maximum permissible radius at bottom corner of groove is 0.381mm; 2.29R for 711.0 - 1067.0mm.

COLUMN 4: Groove outside diameter. The groove must be uniform in depth for the entire pipe circumference. Groove must be maintained within the "C" diameter tolerance listed.

COLUMN 5: Groove depth. For reference only. Groove must conform to the groove diameter "C" listed.

COLUMN 6: Minimum allowable wall thickness. This is the minimum wall thickness which may be roll grooved.

COLUMN 7: Maximum allowable pipe end flare diameter. Measured at the most extreme pipe end diameter square cut or beveled.

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