

FIRESIST® FIRE SPRINKLER PIPES



Borusan Pipe is a leading steel pipe manufacturer with over 65 years of industry expertise, producing more than 4,000 products across 10 state-of-the-art facilities in Türkiye, Italy, Romania, and the USA.

As a trusted provider of fire protection solutions, we offer the widest range of UL Listed & FM Approved fire protection pipes. Our product portfolio includes bare, galvanized, primer-varnished, and epoxy-coated options, along with various end configurations such as roll-grooved, threaded & coupled, or beveled pipe ends.

With an extensive sales network spanning over 35 countries, Borusan Pipe is committed to being your preferred partner in fire protection projects. Through customer-focused R&D, long-term collaboration, consistent product quality, and seamless communication, we ensure the highest standards of reliability and performance.

For more information, contact us at export@borusan.com.



OVERVIEW

	C4-M Corrosivity Category	Regrooveable	Color	Eliminating Field Painting
FIRESIST PLUS	✓	✓	RAL 7012 RAL 3000	✓
FIRESIST EPOXY			RAL 7012 RAL 3000 RAL 3009 RAL 9016 RAL 1018	✓
FIRESIST VARNISH			RAL 9005 RAL 7012 RAL 3000 RAL 3009 RAL 5017 RAL 5005	
GALVANIZED	✓	✓	Galvanized	✓

FIRESIST PLUS EPOXY COATED SPRINKLER PIPES

Premium epoxy-coated Firesist plus pipes are certified as corrosivity category C4-M and proven to exhibit outstanding mechanical performance by European independent third-party testing laboratories. They are suitable for difficult environmental conditions and ideal for continuous operation up to 98 °C. Firesist plus pipes are specially developed with ease of on-site use in mind. They allow regrooving with no flaking or peeling on pipe ends. The coating color and texture are not visually affected by heat during cutting and drilling.

Firesist Plus Product Specifications

- Superior epoxy coating up to 250 microns
- C4-M certified for corrosivity category
- Available in Gray (RAL 7012) and Red (RAL 3000)
- Roll-grooved threaded & coupled or beveled pipe ends
- Eliminates field painting
- Widest range of UL and FM approvals CE certified, UKCA certified for EN 10217-1/2
- Produced according to ASTM, EN, AS 1074, and AS/NZS 1163 standards
- Pressure ratings up to 300 psi
- Size range: 1/2” – 12”
- Reliable in all sizes
- Inner weld seam removal and custom length upon request
- Tight tolerances, consistent roundness, and straightness
- Regroovable



Technical Data Sheet

CORROSION RESISTANCE		
Corrosivity Category	C4-M (urban, industrial, coastal, seashore)	ISO 12944-6:2018
Water Condensation (240 h)	No visual change (incl. blistering, rusting, cracking, flaking) 21,4 MPa adhesion	ISO 6270-1
Neutral Salt Spray (480 h)	No visual change 0,0 mm corrosion from scribe 21,9 MPa adhesion	ISO 9227
MECHANICAL PERFORMANCE		
Cathodic Disbondment	R < 4 mm (168 hours, 24 °C)	ASTM G8-96
Cross-cut	Gt 0	ISO 2409:2007
Adhesion	22,9 MPa	ISO 4624-B
Impact Resistance	≥ 2,0 N.m	ASTM D2794
Mandrel Bend Test	≥ 2 mm	ISO 1519:2011
Cupping Test (Erichsen Drawing)	≥ 11 mm	ISO 1520:2006
Buchholz Hardness	> 250 (0,0 mm)	ISO 2815:2003
Gloss	90 – 94 (60°) 40 – 48 (20°)	DIN EN ISO 2813:2014
CHEMICAL RESISTANCE		
Immersion (45 days at 24°C) • Distilled water • 3 molar calcium chloride • 3 molar sodium chloride • Sat. calcium hydroxide	No holidays No undercutting No blistering No loss of bond No softening	ASTM A775
Chloride Permeability	1.4 x 10 ⁻⁵ M (45 days at 24°C)	ASTM A775

(*): DEKRA approval is available upon request.
***Given technical properties are for RAL 7012, RAL 3000 properties are available upon request.

FIRESIST EPOXY COATED SPRINKLER PIPES

- Powder epoxy coating up to 100 microns
- Available in Red (RAL 3000), Red Brown (RAL 3009), Grey (RAL 7012), White (RAL 9016) and Yellow (RAL 1018)
- Roll-grooved threaded & coupled or beveled pipe ends
- Eliminates field painting
- Widest range of UL and FM approval, CE certified, UKCA certified for EN 10217-1/2
- Produced according to ASTM, EN, AS 1074, and AS/NZS 1163 standards
- Pressure ratings up to 300 psi
- Size range: 1/2” – 12”
- Reliable in all sizes
- Inner weld seam removal and custom length upon request
- Tight tolerances, consistent roundness and straightness



FIRESIST PRIMER VARNISHED SPRINKLER PIPES

Primer varnished sprinkler pipes provide protection against corrosion with low overhead cost.

- Varnishing coating between 20 – 25 microns
- Protects against atmospheric rust
- Available in Black (RAL 9005), Gray (RAL 7012), Red (RAL 3000), Red-Brown (RAL 3009), and Blue (RAL 5017, RAL 5005)
- Roll-grooved threaded & coupled or beveled pipe end
- Saves time, labor, cost, scrap
- Inner weld seam removal and custom length upon request
- Widest range of UL and FM approvals CE certified, UKCA certified for EN 10217-1/2
- Produced according to ASTM, EN, AS 1074, and AS/NZS 1163 standards
- Pressure ratings up to 300 psi
- Size range: 1/2” – 12”
- Reliable in all sizes
- Tight tolerances, consistent roundness, and straightness



Primer varnished sprinkler pipes provide protection against corrosion for up to 60 days under appropriate shipping and storage conditions.

GALVANIZED SPRINKLER PIPES

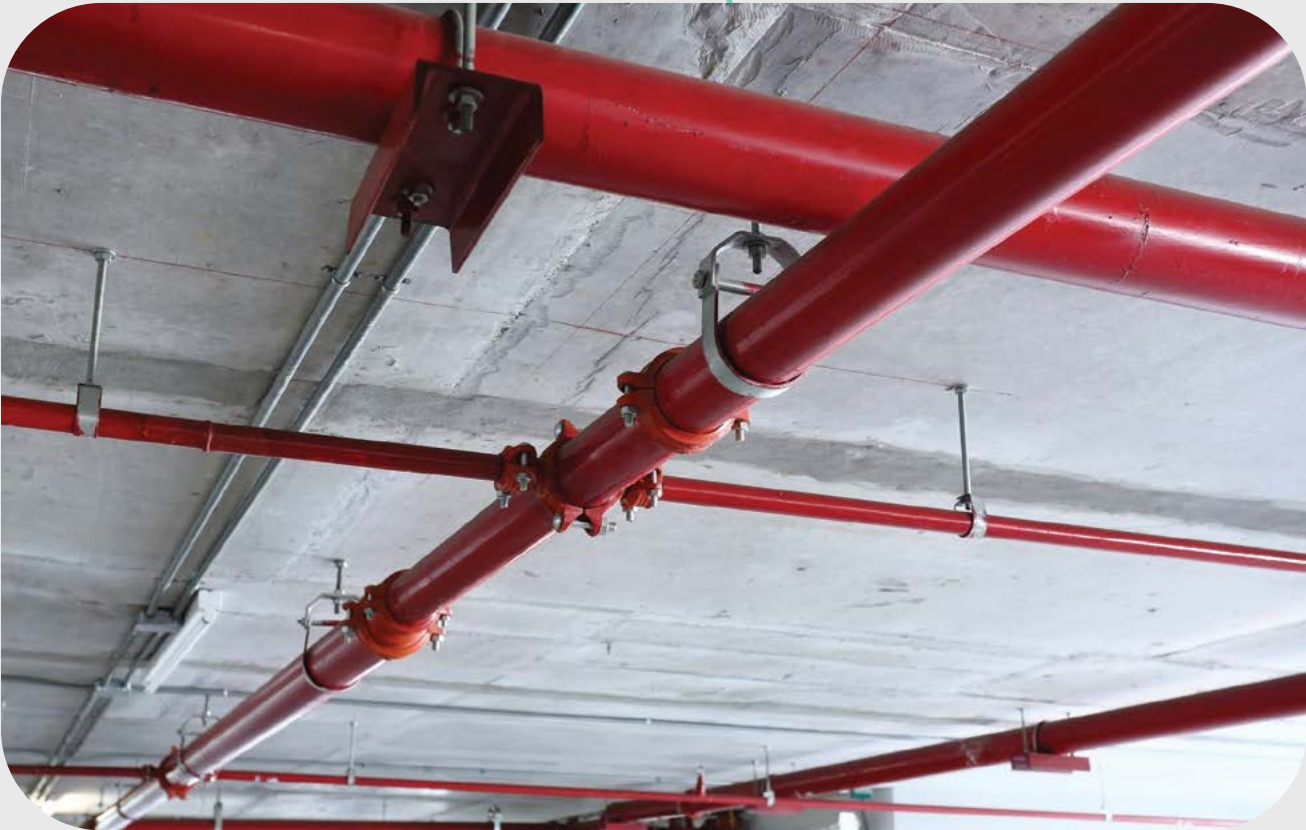
Zinc coated sprinkler pipes provide long lasting protection against corrosion. They are compatible for use in wet, dry, pre-action and deluge sprinkler systems.

- Superior zinc coating between 50 – 55 microns
- Maintains corrosion resistance
- Roll-grooved threaded & coupled or beveled pipe ends
- Easy to weld and install
- Compliant with European project requirements
- Inner weld seam removal and custom length upon request
- Widest range of UL and FM approvals CE and DVGW certified
- Produced according to ASTM and EN standards
- Pressure ratings up to 300 psi
- Size range: 1/2" – 12"
- Reliable in all sizes
- Tight tolerances, consistent roundness and straightness



Technical Data Sheet

CORROSION RESISTANCE		
Corrosivity Category	C4-M (industrial and potable water)	ISO 12944-6:2018
Water Condensation (240 h)	No visual change (incl. blistering, rusting, cracking, flaking) 13,1 MPa adhesion	ISO 6270-1
Neutral Salt Spray (480 h)	No visual change 0,0 mm corrosion from scribe 3,8 MPa adhesion	ISO 9227



ASTM A53 – ASTM A795 – EN 10217-1

	OD (mm)	OD (inch)	Wall Thickness (mm)	Wall Thickness (inch)	Weight (kg/m)	Weight (lb/ft)	UL	FM
EASY FLOW LIGHTWALL	33,7	1"	2	0,079	1,56	1,05		✓
	33,7	1"	2,60	0,102	1,99	1,34		✓
	42,4	1 1/4"	2,00	0,079	1,99	1,34		✓
	42,4	1 1/4"	2,30	0,091	2,27	1,53		✓
	42,4	1 1/4"	2,60	0,102	2,55	1,71		✓
	48,3	1 1/2"	2,00	0,079	2,28	1,53		✓
	48,3	1 1/2"	2,30	0,091	2,61	1,75		✓
	48,3	1 1/2"	2,60	0,102	2,93	1,97		✓
	60,3	1 1/2"	2,00	0,079	2,88	1,93		✓
	60,3	2"	2,60	0,102	3,70	2,49		✓
	60,3	2"	2,90	0,114	4,10	2,76		✓
	76,1	2 1/2"	2,18	0,086	3,97	2,67		✓
	76,1	2 1/2"	2,60	0,102	4,71	3,17		✓
	76,1	2 1/2"	2,90	0,114	5,23	3,52		✓
	88,9	3"	2,36	0,093	5,04	3,38		✓
	88,9	3"	2,90	0,114	6,15	4,13		✓
	88,9	3"	3,20	0,126	6,76	4,54		✓
	114,3	4"	2,60	0,102	7,16	4,81		✓
SCH 7	114,3	4"	3,60	0,142	9,83	6,60		✓
	139,7	5"	3,40	0,134	11,43	7,68		✓
	33,4	1"	2,00	0,079	1,55	1,04	✓	✓
	42,2	1 1/4"	2,00	0,079	1,98	1,33	✓	✓
	48,3	1 1/2"	2,13	0,084	2,42	1,62	✓	✓
	60,3	2"	2,13	0,084	3,05	2,05	✓	✓
	73	2 1/2"	2,18	0,086	3,80	2,55	✓	✓
	88,9	3"	2,36	0,093	5,04	3,38	✓	✓
SCH 10	114,3	4"	2,60	0,102	7,16	4,81	✓	✓
	141,3	5"	3,40	0,134	11,56	7,76	✓	✓
	26,7	3/4"	2,11	0,083	1,28	0,86	✓	✓
	33,4	1"	2,77	0,109	2,09	1,41	✓	✓
	42,2	1 1/4"	2,77	0,109	2,69	1,81	✓	✓
	48,3	1 1/2"	2,77	0,109	3,11	2,09	✓	✓
	60,3	2"	2,77	0,109	3,93	2,64	✓	✓
	73	2 1/2"	3,05	0,120	5,26	3,53	✓	✓
	88,9	3"	3,05	0,120	6,46	4,34	✓	✓
	101,6	3 1/2"	3,05	0,120	7,41	4,98	✓	✓
	114,3	4"	3,05	0,120	8,37	5,62	✓	✓
	139,7	5 1/2"	3,6	0,142	12,08	8,12	✓	✓
	141,3	5"	3,4	0,134	11,58	7,78	✓	✓
	168,3	6"	3,4	0,134	13,85	9,30	✓	✓
SCH 30	219,1	8"	3,76	0,148	19,97	13,4	✓	✓
	219,1	8"	4,78	0,188	25,26	16,96	✓	✓
	273,1	10"	4,19	0,165	27,79	18,67	✓	✓
	273,1	10"	4,78	0,188	31,62	21,23	✓	✓
	323,8	12"	4,78	0,188	37,61	25,28	✓	✓
	33,4	1"	2,90	0,114	2,18	1,46		✓
	42,2	1 1/4"	2,97	0,117	2,87	1,93		✓
	48,3	1 1/2"	3,18	0,125	3,53	2,37		✓
	60,3	2"	3,18	0,125	4,48	3,00		✓
	73	2 1/2"	4,78	0,188	8,04	5,40		✓
	88,9	3"	4,78	0,188	9,92	6,65		✓
	101,6	3 1/2"	4,78	0,188	11,41	7,65		✓
	114,3	4"	4,78	0,188	12,91	8,66		✓
	141,3	5"	5,56	0,219	18,61	12,51		✓
SCH 40	168,3	6"	5,56	0,219	22,31	15,00		✓
	219,1	8"	7,04	0,277	36,82	24,72		✓
	273,1	10"	7,8	0,307	51,05	34,27		✓
	21,3	1/2"	2,77	0,109	1,27	0,85	✓	✓
	26,7	3/4"	2,87	0,113	1,69	1,13	✓	✓
	33,4	1"	3,38	0,133	2,50	1,68	✓	✓
	42,2	1 1/4"	3,56	0,140	3,39	2,27	✓	✓
	48,3	1 1/2"	3,68	0,145	4,05	2,72	✓	✓
	60,3	2"	3,91	0,154	5,45	3,66	✓	✓
	73	2 1/2"	5,16	0,203	8,64	5,80	✓	✓
	88,9	3"	5,49	0,216	11,29	7,58	✓	✓
	101,6	3 1/2"	5,74	0,226	13,58	9,12	✓	✓
	114,3	4"	6,02	0,237	16,09	10,80	✓	✓
	141,3	5"	6,55	0,258	21,79	14,63	✓	✓
SCH 80	168,3	6"	7,11	0,280	28,29	18,99	✓	✓
	219,1	8"	8,18	0,322	45,34	30,45	✓	✓
	273,1	10"	9,27	0,365	60,29	40,52	✓	✓
	21,3	1/2"	3,73	0,147	1,62	1,09		✓
	26,7	3/4"	3,91	0,154	2,20	1,48		✓
	33,4	1"	4,55	0,179	3,25	2,19		✓
	42,2	1 1/4"	4,85	0,191	4,49	3,03		✓
	48,3	1 1/2"	5,08	0,200	5,39	3,65		✓
	60,3	2"	5,54	0,218	7,55	5,08		✓
	73	2 1/2"	7,01	0,276	11,52	7,75		✓
	88,9	3"	7,62	0,300	15,39	10,35		✓
	101,6	3 1/2"	8,08	0,318	18,82	12,67		✓
	114,3	4"	8,56	0,337	22,60	15,20		✓
	141,3	5"	9,52	0,375	31,42	21,04		✓
	168,3	6"	10,97	0,432	43,05	28,88		✓
	219,1	8"	12,70	0,500	65,41	44,00		✓

	OD (mm)	OD (inch)	Wall Thickness (mm)	Wall Thickness (inch)	Weight (kg/m)	Weight (lb/ft)	UL	FM
Certification Process	114,3	4"	3,20	0,126	8,77	5,89		
	168,3	6"	4,00	0,157	16,21	10,89		
	273,0	10"	5,00	0,197	33,05	22,21		
	323,9	10"	5,60	0,220	43,96	29,54		

EN 10255 UL & FM

	OD (mm)	OD (inch)	Wall Thickness (mm)	Wall Thickness (inch)	UL	FM
EN 10255 Medium	21,3	1/2"	2,6	0,102		
	26,9	3/4"	2,6	0,102		
	33,7	1"	3,2	0,126		✓
	42,4	1 1/4"	3,2	0,126	✓	✓
	48,3	1 1/2"	3,2	0,126	✓	✓
	60,3	2"	3,6	0,142	✓	✓
	76,1	2 1/2"	3,6	0,142	✓	✓
	88,9	3"	4	0,157	✓	✓
	114,3	4"	4,5	0,177	✓	✓
	139,7	5"	5	0,197	✓	✓
	165,1	6"	5	0,197	✓	✓

	OD (mm)	OD (inch)	Wall Thickness (mm)	Wall Thickness (inch)	FM
EN 10255 Heavy	21,3	1/2"	3,2	0,126	✓
	26,9	3/4"	3,2	0,126	✓
	33,7	1"	4	0,157	✓
	42,4	1 1/4"	4	0,157	✓
	48,3	1 1/2"	4	0,157	✓
	60,3	2"	4,5	0,177	✓
	76,1	2 1/2"	4,5	0,177	✓
	88,9	3"	5	0,197	✓
	114,3	4"	5,4	0,213	✓
	139,7	5"	5,4	0,213	✓
	165,1	6"	5,4	0,213	✓



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