#### EN FM & UL

	OD (mm)	OD (inch)	Wall Thickness (mm)	Wall Thickness (inch)	FM
Easy Flow Light Wall	33,7	1"	2,00	0,079	1
	33,7	1"	2,60	0,102	✓
	42,4	1 1/4''	2,00	0,079	✓
	42,4	1 1/4''	2,30	0,091	✓
	42,4	1 1/4''	2,60	0,102	1
	48,3	1 1/2''	2,00	0,079	✓
	48,3	1 1/2''	2,60	0,102	✓
	60,3	2''	2,00	0,079	✓
	60,3	2''	2,90	0,114	✓
	76,1	2 1/2''	2,18	0,086	✓
	76,1	2 1/2''	2,90	0,114	✓
	88,9	3"	2,36	0,093	1
	88,9	3"	3,20	0,126	✓
	114,3	4"	2,60	0,102	✓
	114,3	4"	3,60	0,142	✓
	139,7	5"	3,40	0,134	1

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

	OD (mm)	OD (mm)	Wall Thickness (mm)	Wall Thickness (mm)	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	1
	114,3	4"	5,4	0,213	1
	139,7	5''	5,4	0,213	1
	165,1	6''	5,4	0,213	1

#### **Technical Specifications**

- Noll Grooved
- FM Approved
- ☑ UL/C-UL Listed
- NFS Certified
- Custom Length Availability
- ▼ Tight tolerances
- Consistent roundness
- Consistent wall thickness
- Consistent straightness
- Weldable
- Pressure Tested
- Neliable high steel quality
- Solvanised or sandblasted and varnish coated black, red (RAL 3000, RAL 3002 and Ral 3009) or grey (RAL 7012)
- CE, PED Certified







# EASY FLOW FIRE SPRINKLER PIPES



A leading European producer of steel pipes, Borusan Mannesmann is the choice of customers across Europe, the US and Canada for industrial and residential fire protection sprinkler system pipes.

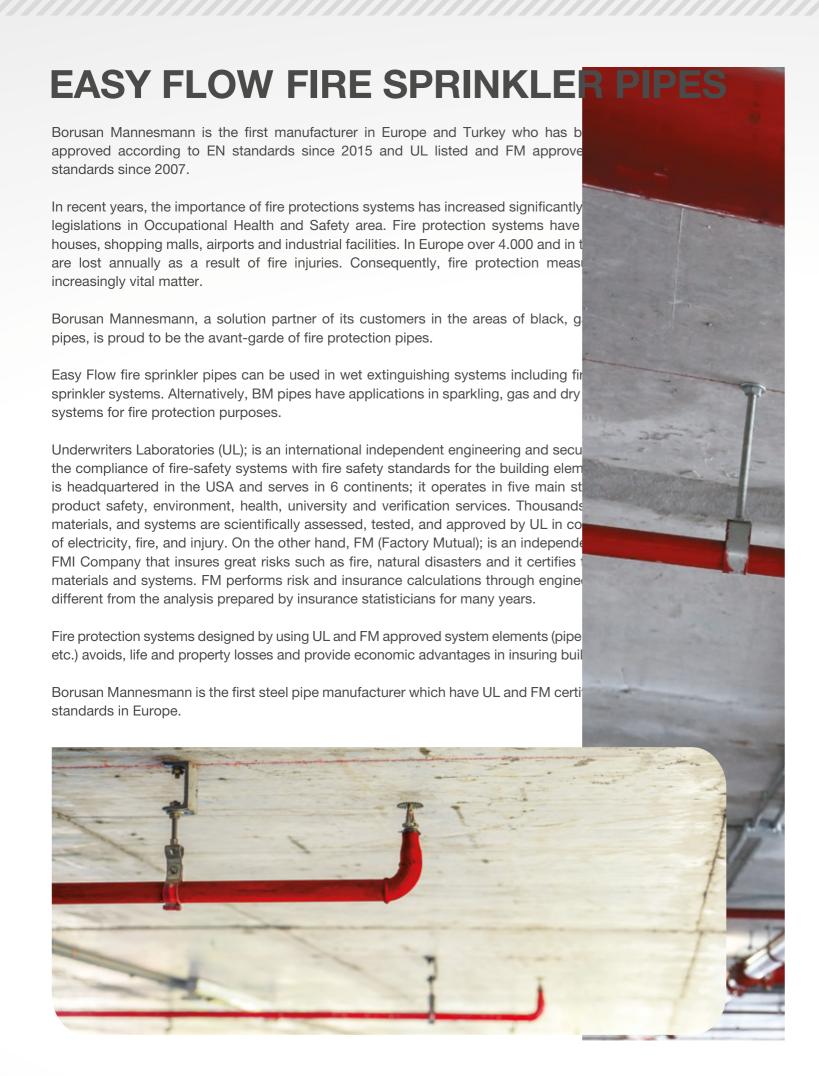
Factory Mutual approved, Underwriters Laboratories & Canadian UL listed, ASTM A53 / A795 and EN production standard Borusan Mannesmann sprinkler pipes... To enhance the safety of your projects with the professional service and high quality assurance of Borusan Mannesmann, known all over the world.











# Why EASY FLOW fire sprinkler pipes?

Easy Flow fire sprinkler pipes are UL and FM certified according to EN and ASTM standards. Due to having high product quality and accredited by international institutions, the use of Easy Flow fire sprinkler pipes provides economic advantages in terms of insuring the buildings against fire.

# Easy Flow fire sprinkler pipes have up to 30 micron of sand blasted varnish coating.

1- In order to reuse the corroded pipe, sandblasting and painting processes are necessary. In some cases, pipes may not be used where atmospheric rust has progressed and deep corrosion has occurred. Easy Flow provides long lasting fire protection system, provides low overhead costs and saves time, labor and scrap.

2- The painting process applied to Easy Flow products is done immediately after the production of pipes. The paint is applied to the adherence surface without contamination of foreign matter such as dirt, dust, etc. before the atmospheric rust is formed. Therefore, Easy Flow fire sprinkler pipes are better quality and long lasting and provide savings from costs of maintenance/repair.

# Inside weld bead is removed for grooved Easy Flow fire sprinkler pipes.

During grooving process, the weld bead causes measurement deviations and errors in grooved area. Such deflections may cause the seal not to be fully seated, the clamps not being fully tightened, or even leakages. Easy Flow grooved fire sprinkler pipes provide perfect connection and combination during assembly and also fully compatible with Victaulic and Atusa standards.



# Easy Flow fire sprinkler pipes have perfect roundness.

When all pipes are connected to each other, perfect alignment occurs and there is no weld gap to be filled. Fast, comfortable and secure pre-weld preparation is done. It is easy to make butt-welding and it saves labor, time and cost.



### Special Procedures Applied On Request

- Solution Control Contr
- Production of special steel grades/qualities
- Solution States St
- Sandblasted and Varnish Coated
- Outer PE (polyethylene) Coating
- Galvanization
- Grooving

## Advantages Of Easy Flow Fire Sprinkler Pipes

- UL and FM approved in EN standards
- UL and FM approved in ASTM A53 and A795 standards.
- ☑ It can be produced as black bare, sandblasted and varnish coated (black, gray and red colors) and galvanized.
- ☑ The red paint has high adhesion and it is resistant to corrosion, water and oil.
- With options of Plain End, Threaded & Coupled or Grooved.
- Weld bead can be removed upon request. CE certified.



#### About Borusan Mannesmann

- 6 World-Class Plants in Turkey, US and Italy
- ➢ Perfect Product Quality with Lean 6 Sigma Production Technique
- Wide Product Range with High Quality
- Exceeding Limits with Continuous R&D

- SEXPORT TO More than 35 countries
- UL and C-UL listed, FM approved, NSF and DVGW certified

#### **ASTM FM & UL**

	OD (mm)	OD (inch)	Wall Thickness (mm)	Wall Thickness (inch)	Weight (kg/m)	Weight (lb/ft)	UL	FM
	33,4	1"	2,60	0.102	1,99	1,34		✓
	42,2	1 1/4"	2,30	0.091	2,27	1,53		✓
	42,2	1 1/4"	2,60	0.102	2,55	1,71		<b>✓</b>
Easy Flow	48,3	1 1/2"	2,60	0.102	2,93	1,97		<b>√</b>
Light Wall	60,3	2 1/2"	2,90	0.114 0.114	4,1	2,76		1
	73 88,9	3"	2,90 3,20	0.114	5,23 6,76	3,52 4,54		<i>y</i>
	114,3	4"	3,60	0.142	9,83	6,60		1
	141,3	5"	3,40	0.134	11,43	7,68		1
	33,4	1"	2,00	0.079	1,55	1,04	1	<b>√</b>
	42,2	1 1/4"	2,00	0.079	1,98	1,33	✓	✓
SCH 7	48,3	1 1/2"	2,13	0.084	2,42	1,62	✓	✓
33	60,3	2"	2,13	0.084	3,05	2,05	<b>✓</b>	<b>√</b>
	73	2 1/2"	2,18	0.086	3,80	2,55	1	√ √
	88,9 114,3	4"	2,36 2,60	0.093 0.108	5,04 7,16	3,38 4,81	1	<b>~</b>
	141,3	5"	3,40	0.134	11,56	7,76	1	
	26,7	3/4"	2,11	0.083	1,28	0,86	/	<b>✓</b>
	33,4	1"	2,77	0.109	2,09	1,41	1	1
	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	<b>✓</b>	✓
	60,3	2"	2,77	0.109	3,93	2,64	<b>✓</b>	<b>√</b>
SCH 10	73	2 1/2"	3,05	0,120	5,26	3,53	1	1
301110	88,9 101,6	3 1/2"	3,05 3,05	0,120 0,120	6,46 7,41	4,34 4,98	1	<i>y</i>
	114,3	4"	3,05	0,120	8,37	5,62	/	<b>V</b>
	141,3	5"	3,4	0.134	11,58	7,78	/	/
	168,3	6"	3,4	0.134	13,85	9,30	1	✓
	219,1	8"	4,78	0.188	25,26	16,96	✓	✓
	273,1	10"	4,78	0.188	31,62	21,23		✓
	323,8	12" 1"	4,78 2,90	0.188 0,114	37,61 2,18	25,28 1,46		√ √
	33,4 42,2	1 1/4"	2,97	0,114	2,16	1,93		<i>y</i>
	48,3	1 1/2"	3,18	0,125	3,53	2,37		/
	60,3	2"	3,18	0,125	4,48	3,00		<b>√</b>
SCH 30	73	2 1/2"	4,78	0,188	8,04	5,40		✓
SCH 30	88,9	3"	4,78	0,188	9,92	6,65		✓
	101,6	3 1/2"	4,78	0,188	11,41	7,65		<b>√</b>
	114,3 219,1	4" 8"	4,78 7,04	0,188 0,277	12,91	8,66 24,72		√ √
	273,1	10"	7,04	0,277	36,82 51,05	34,27		<i>y</i>
	21,3	1/2"	2,77	0.109	1,27	0,85	1	1
	26,7	3/4"	2,87	0.113	1,69	1,13	/	<b>✓</b>
	33,4	1"	3,38	0.133	2,50	1,68	1	✓
	42,2	1 1/4"	3,56	0.140	3,39	2,27	✓	<b>√</b>
	48,3	1 1/2"	3,68	0.145	4,05	2,72	<b>✓</b>	<b>✓</b>
	60,3	2"	3,91	0.154	5,45	3,66	1	/
SCH 40	73 88,9	2 1/2"	5,16 5,49	0.203 0.216	8,64 11,29	5,80 7,58	/	<i>J</i>
	101,6	3 1/2"	5,74	0,226	13,58	9,12	/	/
	114,3	4"	6,02	0.237	16,09	10,80	1	1
	141,3	5"	6,55	0.258	21,79	14,63	✓	✓
	168,3	6"	7,11	0.280	28,29	18,99	<b>✓</b>	✓.
	219,1	8"	8,18	0,322	45,34	30,45	<b>✓</b>	<b>✓</b>
	273,1 21,3	10"	9,27 3,73	0,365 0.147	60,29 1,62	40,52 1,09	7	√ ✓
	26,7	3/4"	3,91	0.147	2,20	1,48		<i>y</i>
	33,4	1"	4,55	0,179	3,25	2,19		<b>√</b>
	42,2	1 1/4"	4,85	0,191	4,49	3,03		1
	48,3	1 1/2"	5,08	0,200	5,39	3,65		✓
COLLOG	60,3	2"	5,54	0,218	7,55	5,08		<b>√</b>
SCH 80	73	2 1/2"	7,01	0,276	11,52	7,75		<b>✓</b>
	88,9	3" 3 1/2"	7,62	0,300	15,39	10,35		✓ ✓
	101,6 114,3	3 1/2"	8,08 8,56	0,318 0,337	18,82 22,60	12,67 15,20		<i>y</i>
	141,3	5"	9,52	0,337	31,42	21,04		<i>y</i>
	168,3	6"	10,97	0,432	43,05	28,88		✓ ×
	219,1	8"	12,70	0,500	65,41	44,00		✓