

Aluminum **Rigid Metal Conduit**



Wheatland Tube

JMC STEEL GROUP

Aluminum RMC: Lightweight Corrosion Fighter

Aluminum Rigid Metal Conduit is about one-third the weight of steel RMC. Aluminum conduit can be readily cut, bent or threaded on the job, and it requires no special tools or installation equipment. In installations using large size conduit, ease of field fabrication is of special significance. Aluminum resists most corrosive atmospheres and industrial environments without special painting or coatings. It's non-sparking, which eliminates a hazard in explosive atmospheres, especially when flammable or combustible gases, liquids or vapors may be present. Aluminum conduit is nonmagnetic, which reduces power losses caused by voltage drops and can result in power savings during the life of the installation.

The Winning Team

When the job needs to be done on time and within budget, rely on Wheatland. Wheatland Aluminum Rigid Conduit is extruded in the U.S. and is in stock and ready to ship. With Wheatland you have a trusted partner, with the highest quality product and the best technical and product support in the industry. Experience. Quality. Total support system. You and Wheatland. That's *the* winning team.

A Quick Look at Wheatland's Aluminum RMC

Wheatland Aluminum Rigid Conduit is made from 6063 aluminum alloy, T-1 temper (formerly designated T-42). It's a "marine grade" alloy that provides high strength and corrosion resistance.

Applications: Wheatland Aluminum RMC can be installed indoors or outdoors, in dry or wet locations, exposed or concealed, where judged suitable for the environment, and in hazardous locations, when in accordance with National Electrical Code®.

Coatings: Rigid Aluminum Conduit is highly corrosion-resistant and requires no additional mill coatings.

Sizes: Nominal trade sizes from ½" to 6"

Lengths: Aluminum RMC is produced in traditional standard lengths of 10 feet, including coupling, is threaded on both ends, with a coupling applied to one end and a thread protector, industry color-coded by size, to the other.



Protection: Good mechanical protection, resists most corrosive atmospheres and industrial environments.

Green: Aluminum can be recycled over and over without breaking down. Recycling scrap aluminum requires only 5% of the energy used to make new aluminum. For this reason, approximately 31% of all aluminum produced in the United States comes from recycled scrap.

Specifications

Wheatland's Aluminum Rigid Metal Conduit (RMC) is manufactured in accordance with the latest specifications and standards of ANSI® C80.5, UL 6A, and federal specification WW-C-581. The pitch of aluminum conduit threads conforms to the American National Standard for Pipe Threads, General Purpose (Inch), ANSI/ASME B1.20.1. The taper of threads is 3/4 inch per foot (1 in 16).

Thread Protectors

Aluminum RMC is threaded on both ends, with a coupling applied to one end and a thread protector, industry color-coded by size, to the other.

Black: ½", 1 ½", 2 ½" and 3 ½"

Red: ¾", 1 ¼"

Blue: 1", 2", 3", 4", 5" and 6"

Provides Equipment Grounding

Aluminum RMC is approved for use by the NEC® as an equipment grounding conductor, with its associated coupling and appropriate fittings.

Rigid Metal Conduit - Aluminum

Weights and Dimensions

Trade Size	Metric Designator	Threads Per Inch	Acceptable Length of Finished Conduit without Coupling			Weight 10 Unit Lengths with Couplings		Nominal Outside Diameter*		Nominal Inside Diameter*		Nominal Wall Thickness*	
			ft.	(+/- 1/4 in.) in.	(+/- 6 mm) mm	lb	kg	in.	mm	in.	mm	in.	mm
½	16	14	9	11¼	3030	28.1	12.75	0.840	21.34	0.632	16.05	0.104	2.64
¾	21	14	9	11¼	3030	37.4	16.96	1.050	26.67	0.836	21.23	0.107	2.72
1	27	11½	9	11	3025	54.5	24.72	1.315	33.40	1.063	27.00	0.126	3.20
1¼	35	11½	9	11	3025	71.6	32.48	1.660	42.16	1.394	35.41	0.133	3.38
1½	41	11½	9	11	3025	88.7	40.23	1.900	48.26	1.624	41.25	0.138	3.51
2	53	11½	9	11	3025	118.5	53.75	2.375	60.33	2.083	52.91	0.146	3.71
2½	63	8	9	10½	3010	187.5	85.05	2.875	73.03	2.489	63.22	0.193	4.90
3	78	8	9	10½	3010	246.3	111.72	3.500	88.90	3.090	78.49	0.205	5.21
3½	91	8	9	10¼	3005	295.6	134.08	4.000	101.60	3.570	90.68	0.215	5.46
4	103	8	9	10¼	3005	350.2	158.85	4.500	114.30	4.050	102.87	0.225	5.72
5	129	8	9	10	2995	478.9	217.23	5.563	141.30	5.073	128.85	0.245	6.22
6	155	8	9	10	2995	630.4	285.95	6.625	168.28	6.093	154.76	0.266	6.76

*For information only, not a Standards requirement

Packaging

Trade Size	Metric Designator	Threads Protectors Color	Quantity Per Bundle		Quantity Per Lift				Weight Per Lift		Volume Per Lift	
			Feet	Meters	Pieces	Bundles	Feet	Meters	Pounds	Kilograms	Cu. Feet	Cu. m
½	16	Black	100	30.5	—	25	2500	762	703	319	18.7	0.53
¾	21	Red	100	30.5	—	25	2500	762	935	424	27.1	0.77
1	27	Blue	100	30.5	—	20	2000	610	1090	494	31.3	0.88
1¼	35	Red	50	15.2	—	20	1000	305	716	325	27.5	0.78
1½	41	Black	50	15.2	—	20	1000	305	887	402	34.3	0.97
2	53	Blue	50	15.2	—	9	450	137	533	242	26.4	0.75
2½	63	Black	—	—	30	—	300	91	563	255	22.9	0.65
3	78	Blue	—	—	20	—	200	61	493	223	22.9	0.65
3½	91	Black	—	—	20	—	200	61	591	268	27.5	0.78
4	103	Blue	—	—	20	—	200	61	700	318	35.4	1
5	129	Blue	—	—	8	—	80	24	383	174	24.4	0.69
6	155	Blue	—	—	6	—	60	18	378	172	26.7	0.76



JMC Steel Group
Pipe and Tube Solutions

Corporate Office

3201 Enterprise Pkwy., Ste. 150,
Beechwood, OH 44122-7329
Ph: (216) 910-3700



Wheatland Tube
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Wheatland Tube

700 South Dock Street,
Sharon, PA 16146
Ph: (800) 257-8182
Fax: (724) 346-7260
info@wheatland.com

Wheatland produces a full line of listed electrical conduit, EMT and tubular fittings. We supply Steel and Aluminum Rigid Metal Conduit (RMC), Steel Intermediate Metal Conduit (IMC) and Steel Electrical Metallic Tubing (EMT). We also manufacture a full line of complementary tubular fittings made from the same materials as our raceways — nipples, elbows, couplings and running thread. (See Wheatland's individual product literature for specific product details.)

All Wheatland manufacturing locations' quality management systems are certified to the ISO 9001:2008 requirements.

For more information contact Wheatland's Electrical Sales Department at 800-257-8182, email: info@wheatland.com or visit our website at www.wheatland.com.



Made in U.S.A.