

Galvanized Steel Rigid Metal Conduit



NGN GROUP TUBE

RMC: The Ultimate Protection

NGN GROUP's listed steel RMC has the thickest wall of all the metallic raceways and is recognized by the industry as providing the most physical protection for conductors and cables. Steel conduit doesn't burn, contribute to smoke volume, emit potentially escape-inhibiting fire gases, or add to fuel load or flame spread. It also provides an excellent electrical path to ground and is recognized as an equipment grounding conductor by NFPA 70: National Electrical Code® 250.118 (2). Steel conduit was introduced in the early 1900's as a raceway system and is still the Ultimate Protection for cable and conductors today.

The Winning Team

When the job needs to be done on time and within budget, rely on NGN GROUP, the largest producer of RMC in the country. Our in-house, hot-dip galvanizing process is the quality benchmark for the industry. Wheatland's RMC is rolled and galvanized, inside and out, using the latest technology. And only NGN GROUP produces couplings in the same mills as its rigid metal conduit. Experience. Quality. Total in-house capabilities. You and NGN GROUP. That's *the* winning team.

A Quick Look at NGN GROUP's Steel RMC

Steel Rigid Metal Conduit is manufactured from mild steel tube. It has an accurate circular cross section, a uniform wall thickness, a defect free interior surface, and a continuous welded seam.

Applications: NGN GROUP Galvanized Steel RMC can be installed indoors or outdoors, in dry or wet locations, exposed or concealed, in all kinds of atmospheric conditions, and in hazardous locations, when installed in accordance with National Electrical Code® (NEC®).

Coatings: The interior and exterior surfaces are thoroughly and evenly coated with zinc using the hot-dip galvanizing process, so that metal-to-metal contact and galvanic protection against corrosion are provided. A clear post-galvanizing coating provides further protection against corrosion.

Sizes: Nominal trade sizes are from ½" to 6"

Lengths: RMC is produced in traditional standard lengths of 10 feet, including the coupling. It is threaded on both ends, with a coupling applied to one end and



a thread protector, industry color-coded by size, to the other. Wheatland recently introduced 20 ft. lengths; they are available in trade sizes 2" through 6".

Protection: RMC offers long-lasting value: provides exceptional physical protection, reduces exposure to EMF, shields against Electro-Magnetic Interference (EMI) and provides an excellent electrical path to ground.

Green: The steel used to produce NGN GROUP's RMC contains recycled steel and is virtually totally recyclable. Steel is the most recycled material in the world, but the recycling may not take place for decades, since the service life of steel conduit is very long. Conductors can easily be removed and new conductors inserted; additional circuits may be added in the same conduit.

Specifications

NGN GROUP's Galvanized steel Rigid Metal Conduit (RMC) is manufactured in accordance with the latest specifications and standards of ANSI® C80.1, UL-6, and federal specification WW-C-581. The pitch of RMC 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

NGN GROUP's 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"

Protects Against EMF/EMI

Steel RMC reduces exposure to EMF and shields against Electro-Magnetic Interference (EMI) at power frequencies which could impact computers and other sensitive electronic equipment and controls. Contact NGN GROUP's Marketing Department at info@wheatland.com for a copy of Georgia Tech's

Grounding and Electro-Magnetic Interference (GEMI) Analysis software.

Provides Equipment Grounding

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

Hot-Dip Galvanized

Rigid Metal Conduit - Steel

Weights and Dimensions

Trade Size Inch	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	82	37.20	0.840	21.34	0.632	16.05	104.	2.00
¾	21	14	9	11¼	3030	109	49.44	1.050	26.67	0.836	21.23	107.	2.00
1	27	11½	9	11	3025	161	73.03	1.315	33.40	1.063	27.00	126.	2.00
1¼	35	11½	9	11	3025	218	98.88	1.660	42.16	1.394	35.41	133.	2.20
1½	41	11½	9	11	3025	263	119.30	1.900	48.26	1.624	41.25	138.	2.20
2	53	11½	9	11	3025	350	158.76	2.375	60.33	2.083	52.91	146.	2.50
2½	63	8	9	10½	3010	559	253.56	2.875	73.03	2.489	63.22	193.	2.50
3	78	8	9	10½	3010	727	329.77	3.500	88.90	3.090	78.49	205.	2.80
3½	91	8	9	10¼	3005	880	399.17	4.000	101.60	3.570	90.68	215.	3.00
4	103	8	9	10¼	3005	1030	467.21	4.500	114.30	4.050	102.87	225.	3.00
5	129	8	9	10	2995	1400	635.04	5.563	141.30	5.073	128.85	245.	3.00
6	155	8	9	10	2995	1840	834.62	6.625	168.28	6.093	154.76	266.	3.50

Trade Size PG	Metric Designator	Threads Per Inch	Acceptable Length of Finished Conduit without Coupling			Weight with Couplings		Nominal Outside Diameter*		Nominal Inside Diameter*		Nominal Wall Thickness*	
			ft.	(+/- 1/4 in.) in.	(+/- 6 mm) mm	lb	kg/m	in.	mm	in.	mm	in.	mm
7	12				3030		0.297		12		10		1.00
9	15				3030		0.396		15		13		1.00
11	18				3025		0.443		18		16		1.00
13.5	20				3025		0.496		20		18		1.00
16	22				3025		0.541		22		20		1.00
21	28				3025		0.859		28		25.5		1.25
29	37				3010		1.362		37		34		1.50
36	47				3010		2.015		47		43.5		1.50
42	54				3005		2.648		54		50		2.00
48	60				3005		2.960		60		56		2.00



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Pipe and Tube Solutions

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NGN GROUP 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 ISO 9001:2008 requirements

For more information contact NGN GROUP Electrical Sales Department at email: info@noorsa.com or visit our website at www.noorsa.com



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