



Wheatland Tube Company

DIVISION OF JOHN MANEELY COMPANY

Standards and Specifications

Steel Conduit and Tubing

NEC® 2005

RIGID METAL CONDUIT (RMC) ELECTRICAL METALLIC TUBING (EMT) INTERMEDIATE METAL CONDUIT (IMC)



Rigid Metal Conduit is a threadable raceway of circular cross section designed for the physical protection and routing of conductors and cables and for use as an equipment grounding conductor when installed with its integral or associated coupling and appropriate fittings. RMC is generally made of steel (ferrous) with protective coatings or aluminum (nonferrous).

Electrical Metallic Tubing is an unthreaded thinwall raceway of circular cross section designed for the physical protection and routing of conductors and cables and for use as an equipment grounding conductor when installed utilizing appropriate fittings. EMT is generally made of steel (ferrous) with protective coatings or aluminum (nonferrous).

Intermediate Metal Conduit is a steel threadable raceway of circular cross section designed for the physical protection and routing of conductors and cables and for use as an equipment grounding conductor when installed with its integral or associated coupling and appropriate fittings. IMC is made of steel (ferrous) with protective coatings.



Certificate Numbers:
Wheatland, PA 007172
Chicago, IL 008952
Little Rock, AR 009081

Made in U.S.A.

GENERAL SALES OFFICES
900 Haddon Avenue
Collingswood, NJ 08108-2162
Phone (856) 854-5400
Fax (856) 854-4973

GALVANIZED RIGID METAL CONDUIT (RMC)

NEC® Article 344, ANSI C80.1, U.L. 6

LISTING REQUIREMENTS:

RMC, factory elbows and couplings, and associated fittings shall be listed.

TRADE SIZE:

½ - 6 Nominal; Standard length 10' (3.05 m) with coupling.

USE:

All atmospheric conditions and occupancies per NEC® 344.10.

COATING:

Hot-dip galvanized O.D. and zinc or organic I.D. O.D. min. coating thickness .0008 inch. Wheatland provides supplemental coating of chromate or equivalent.

THREADS:

Both ends threaded (Tapered NPT ¾" per foot) Coupling one end, thread protector other end. Threads are coated to inhibit corrosion from taking place prior to installation. Threads per Inch: ANSI/ASME B1.20.1 ½-¾ = 14, 1-2 = 11, 2½-6 = 8

BENDS:

No more than the equivalent of 4 quarter bends (360° total) between pull points. Internal diameter of conduit shall not be effectively reduced.

CONDUCTORS:

Number and percent conduit fill given in National Electrical Code® (NEC®) Chapter 9, Table 1.

TESTS:

Pass four 60-second immersions in copper sulfate solution. No flaking or cracking of zinc coating when ½ Steel RMC bent into semi-circle with 4" centerline radius.

SUPPORTS:

Support of straight runs with threaded couplings that prevent transmission of stresses.

Size	Max. Dist. (Ft.)
½ - ¾.....	10
1.....	12
1¼ - 1½.....	14
2 - 2½.....	16
3 - 6.....	20

MARKING:

Each length clearly and durably identified every 10Ft. with Wheatland's name, trademark, "Rigid Steel Conduit", and "Consult manufacturer for installation instructions".

Trade Size NPS	Metric Designator	I.D.	O.D.	WT. 100FT.
½	16	.632	.840	82
¾	21	.836	1.050	109
1	27	1.063	1.315	161
1¼	35	1.394	1.660	218
1½	41	1.624	1.900	263
2	53	2.083	2.375	350
2½	63	2.489	2.875	559
3	78	3.090	3.500	727
3½	91	3.570	4.000	880
4	103	4.050	4.500	1030
5	129	5.073	5.563	1400
6	155	6.093	6.625	1840

ELECTRICAL METALLIC TUBING (EMT)

NEC® Article 358, ANSI C80.3, U.L. 797

LISTING REQUIREMENTS:

EMT, factory elbows, and associated fittings shall be listed.

TRADE SIZE:

½ - 4 Nominal; Standard length 10' (3.05 m)

USE:

For exposed or concealed work per NEC® 358.10 and limitations of 358.12.

COATING:

Galvanized (zinc) or alternate corrosion resistant coating O.D., organic I.D. O.D. min. coating thickness .0008 inch. Wheatland provides supplemental coating of chromate or equivalent.

THREADS:

EMT shall not be threaded. Unless supplied with factory threaded integral coupling complying with NEC® 358.100.

BENDS:

No more than the equivalent of 4 quarter bends (360° total) between pull points. Internal diameter of tubing shall not be effectively reduced.

CONDUCTORS:

Number and percent conduit fill given in National Electrical Code® (NEC®) Chapter 9, Table 1.

TESTS:

Pass four 60-second immersions in copper sulfate solution. No flaking or cracking of zinc coating when ½ Steel EMT bent into semi-circle with 4" centerline radius.

SUPPORTS:

At least every 10 feet (3.05 m) and within 3 feet (914 mm) of outlet, junction box, cabinet, or other conduit termination.

MARKING:

Each length clearly and durably identified every 10Ft. with Wheatland's name, trademark, "Electrical Metallic Tubing", and "Consult manufacturer for installation instructions".

Trade Size NPS	Metric Designator	I.D.	O.D.	WT. 100FT.
½	16	.622	.706	30
¾	21	.824	.922	46
1	27	1.049	1.163	67
1¼	35	1.380	1.510	101
1½	41	1.610	1.740	116
2	53	2.067	2.197	148
2½	63	2.731	2.875	216
3	78	3.356	3.500	263
3½	91	3.834	4.000	349
4	103	4.334	4.500	393
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INTERMEDIATE METAL CONDUIT (IMC)

NEC® Article 342, ANSI C80.6, U.L. 1242

LISTING REQUIREMENTS:

IMC, factory elbows and couplings, and associated fittings shall be listed.

TRADE SIZE:

½ - 4 Nominal; Standard length 10' (3.05 m) with coupling

USE:

All atmospheric conditions and occupancies per NEC® 342.10.

COATING:

Galvanized (zinc) or alternate corrosion resistant coating O.D., organic I.D. O.D. min. coating thickness .0008 inch. Wheatland provides supplemental coating of chromate or equivalent.

THREADS:

Both ends threaded (Tapered NPT ¾" per foot) Coupling one end, thread protector other end. Threads are coated to inhibit corrosion from taking place prior to installation. Threads per Inch: ANSI/ASME B1.20.1 ½-¾ = 14, 1-2 = 11, 2½-4 = 8

BENDS:

No more than the equivalent of 4 quarter bends (360° total) between pull points. Internal diameter of conduit shall not be effectively reduced.

CONDUCTORS:

Number and percent conduit fill given in National Electrical Code® (NEC®) Chapter 9, Table 1.

TESTS:

Pass four 60-second immersions in copper sulfate solution. No flaking or cracking of zinc coating when ½ Steel IMC bent into semi-circle with 4" centerline radius.

SUPPORTS:

At least every 10 feet (3.05 m) and within 3 feet (914 mm) of outlet, junction box, cabinet, or other conduit termination.

MARKING:

Each length clearly and durably identified with Wheatland's name, trademark, "Intermediate Metal Conduit", and "Consult manufacturer for installation instructions". Also, at 5' intervals the letters "IMC" are clearly and durably marked.

Trade Size NPS	Metric Designator	I.D.	O.D.	WT. 100FT.
½	16	.659	.815	62
¾	21	.863	1.029	84
1	27	1.104	1.290	119
1¼	35	1.452	1.638	158
1½	41	1.683	1.883	194
2	53	2.150	2.360	256
2½	63	2.557	2.857	441
3	78	3.176	3.476	543
3½	91	3.671	3.971	629
4	103	4.166	4.466	700
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