



Rigid Metal Conduit - Aluminum

Features

Corrosion Resistance

Aluminum conduit resists most corrosive atmospheres and industrial environments that usually attack other types of metallic conduit. In these applications, aluminum requires no painting or replacement, resulting in considerable savings in maintenance costs.

Attractive Appearance

Aluminum won't rust or leave discoloring streaks and stains.

Non-sparking

Aluminum is non-sparking, eliminating a hazard in explosive atmospheres.

Nonmagnetic

Nonmagnetic aluminum conduit reduces power loss due to voltage drop, resulting in power savings throughout the life of installation.



Ease of Installation

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.

Thread Protectors

Rigid Aluminum Conduit is shipped with a coupling on one end and a color-coded thread protector on the other end. See Rigid Aluminum Conduit packaging table for the trade size end cap color relationship.

Installation

The conventional tools and practices used on steel conduit can be utilized on Rigid Aluminum Conduit.

Applicable Rigid Aluminum Conduit Material Standards

Though the National Electrical Code® deals primarily with proper field application, it presumes that the tubing meets the standards necessary to perform properly under approved conditions.

Wheatland Rigid Aluminum Conduit is made to provide all the characteristics required for proper installation as specified in the Code.

Wheatland Rigid Aluminum Conduit is made from 6063 aluminum alloy, T-1 temper (formerly designated T-42), and manufactured in conformance to standards established by the American National Standards Institute, the Underwriters Laboratories and the Federal Specification.



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

In preparing bids, it may be stated that Wheatland Rigid Aluminum Conduit conforms to:

Underwriters Laboratories Standard For Electrical Rigid Metal Conduit - Aluminum, Bronze, and Stainless steel, UL 6A

Federal Specification WW-C-540c

American National Standard Institute C80.5

NEC® (2002) Section 250.118(2) recognizes Rigid Metal Conduit as an equipment grounding conductor.



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WEIGHTS AND DIMENSIONS

Trade Size	Metric Designator	Threads Per Inch	Acceptable Length of Finished Conduit Without Coupling			Weight 10 Unit Lengths with Couplings		Outside Diameter*		Inside Diameter*		Wall Thickness*	
			ft.	in.	mm	lb	kg	in.	mm	in.	mm	in.	mm
				(+/- ¼ in.)	(+/- 6 mm)								
½	16	14	9	11¼	3030	28.1	12.75	0.840	21.34	0.622	15.80	.109	2.77
¾	21	14	9	11¼	3030	37.4	16.96	1.050	26.67	0.824	20.93	.113	2.87
1	27	11½	9	11	3025	54.5	24.72	1.315	33.40	1.049	26.64	.133	3.38
1¼	35	11½	9	11	3025	71.6	32.48	1.660	42.16	1.380	35.05	.140	3.56
1½	41	11½	9	11	3025	88.7	40.23	1.900	48.26	1.610	40.89	.145	3.68
2	53	11½	9	11	3025	118.5	53.75	2.375	60.33	2.067	52.50	.154	3.91
2½	63	8	9	10½	3010	187.5	85.05	2.875	73.03	2.469	62.71	.203	5.16
3	78	8	9	10½	3010	246.3	111.72	3.500	88.90	3.068	77.93	.216	5.49
3½	91	8	9	10¼	3005	295.6	134.08	4.000	101.60	3.548	90.12	.226	5.74
4	103	8	9	10¼	3005	350.2	158.85	4.500	114.30	4.026	102.26	.237	6.02
5	129	8	9	10	2995	478.9	217.23	5.563	141.30	5.047	128.19	.258	6.55
6	155	8	9	10	2995	630.4	285.95	6.625	168.28	6.065	154.05	.280	7.11

*For information only, not a Standards requirement

PACKAGING

Trade Size	Metric Designator	Thread Protectors Color	Quantity Per Bundle		Quantity Per Lift				Weight Per Lift		Volume Per Lift	
			Feet	Meters	Pieces	Bundles	Feet	Meters	Pounds	Kilograms	Cu. Ft.	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	1.00
5	129	Blue	—	—	8	—	80	24	383	174	24.4	0.69
6	155	Blue	—	—	6	—	60	18	378	172	26.7	0.76