

# Providence Pipe Products, Inc.



Hot Dip Galvanized  
Rigid Steel Conduit (**RIGID**)

## General

Providence RIGID is manufactured from high-strength steel. Produced by the electric resistance welding process. The finished conduit is uniform in OD size, wall thickness, a defect free interior surface and smoothly welded seams. RIGID produced using an inline galvanizing process. It is hot-dipped galvanized inside and outside, so that metal to metal contact and galvanic protection against corrosion are provided. Additionally, it is top-coated with a compatible organic layer to inhibit white rust and increase corrosion resistance. The good interior surface quality provides smooth continuous raceways for easy and fast wiring pulling. Its excellent ductility provides easy bending, cutting and joining to prevent waste of time and materials. No need to worry about damage to the conduit system even when through multiple 90° bends.

Providence's RIGID is produced in normal trade size from 1/2" - 4" in standard lengths of 10 feet (3.05 m), including coupling. Rigid is threaded on both ends, with a coupling applied to one end and a thread protector to the other. The pitch of threads conforms to the American National Standard for pipe threads, general purpose (Inch), ANSI/ASME B1.20.1 Threads are protected after cutting by an application of molten zinc. The quantity in primary bundle and master bundle NEMA standard bundle quantity.

Providence RIGID is a UL listed product. Each pipe has been affixed a UL label and a manufacturer label including trade size and a bar code.

## Application

Galvanized Rigid Steel Conduit can be installed indoors or outdoors, exposed or concealed, in all kinds of atmospheric conditions, and in hazardous locations, when in accordance with NEC® 2002 Article 344. Also, it provides mechanical protection for the conductors while reducing Electro-Magnetic Field (EMF) exposure and shielding against Electro-Magnetic Interference (EMI).

Galvanized Steel Rigid Conduit is an approved equipment grounding conductor under the 2002 NEC® Section 250.118. The NEC® establishes the minimum requirements for the safe electrical installation. Because of the varied environments in which electrical equipment is installed, local amendments are often added. Always consult local codes prior to installation.

## Specification

Providence RIGID pipe is manufactured in accordance with the latest edition of the following:  
American National Standards Institute (ANSI)  
American National Standard for Rigid Steel Tubing, ANSI® C80.1  
UL Standard for Rigid-Steel, UL 6

National Electric Code® 2002-Article 344(1999 NEC Article 346) Federal Specification- WW-C\_581. The Above specification may still be referenced, however the federal government has cancelled it and adopted the UL6 and ANSI C80.1 standard.

Additional information can be found in the Underwriters Laboratories Inc., General Information for Electrical Equipment Directory. The UL product category for RIGID is DYIX.

## DIMENSIONS AND WEIGHT CHART

Trade Size		Nominal Wt. per 100Ft. (30.5M) With couplings		Nominal Outside Diameter		Nominal Wall Thickness	
U.S.	Met ric	lb.	kg	in	mm	in	mm
1/2	16	82	37.2	0.840	21.3	0.104	2.60
3/4	21	109	49.4	1.050	26.7	0.107	2.70
1	27	161	73.0	1.315	33.4	0.126	3.20
1-1/4	35	218	98.9	1.660	42.2	0.133	3.40
1-1/2	41	263	119.3	1.900	48.3	0.138	3.50
2	53	350	158.7	2.375	60.3	0.146	3.70
2-1/2	63	559	253.5	2.875	73.0	0.193	4.90
3	78	727	329.7	3.500	88.9	0.205	5.20
3-1/2	91	880	399.1	4.000	101.6	0.215	5.50
4	103	1030	467.1	4.500	114.3	0.225	5.70
5*	129	1400	634.9	5.563	141.3	0.245	6.20
6*	155	1840	834.5	6.625	168.3	0.266	6.80

## PACKAGING

Trade Size		Quantity in Primary Bundle		Master Bundle (lift)			
U.S.	Met ric	Ft.	M	Pieces	Feet	Meter	Approx Wt. Kg
1/2	16	100	30.5	250	2500	762.5	929.7
3/4	21	50	15.2	200	2000	610.0	988.7
1	27	50	15.2	125	1250	381.3	912.9
1-1/4	35	10	3.05	90	900	274.5	889.8
1-1/2	41	10	3.05	80	800	244.0	954.2
2	53	10	3.05	60	600	183.0	952.4
2-1/2	63	10	3.05	37	370	112.9	937.9
3	78	10	3.05	30	300	91.5	989.1
3-1/2	91	10	3.05	25	250	76.3	997.7
4	103	10	3.05	20	200	61.0	934.2
5*	129	10	3.05	15	150	45.8	952.4
6*	155	10	3.05	10	100	30.5	834.5

Notes: 1. Applicable tolerances Length: 10Ft. (3.05m) ± 1/4" (±6.35mm).  
Outside Diameter: 1/2"-2" ±0.015" (±0.38mm); 2 1/2"-4" ± 0.025" (± 0.64mm);  
5"-6" ± 1%. 2. All \* marked sizes may be available soon.

