

# Providence Pipe Products, Inc.

## Galvanized Steel Electrical Metallic Tubing (EMT)



### General

Providence EMT is manufactured from high-grade flat-rolled steel. Produced by the electric resistance welding process, the finished tube is uniform in OD size, wall thickness, a defect free interior surface and smoothly welded seams. The 1/2"-1 1/2" EMT are made from zinc coils. The 2"-4" EMT are produced using an inline galvanizing process. The surface of all of them is thoroughly coated zinc, so that metal to metal contact and galvanic protection against corrosion are provided. Additionally, the exterior is protected by a clear zinc chromate coating. 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.

Providence's EMT is produced in normal trade size from 1/2" - 4". EMT is produced in standard lengths of 10 feet (3.05 m). The quantity in primary bundle is standard bundle quantity. Providence EMT 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 Steel Electrical Metallic Tubing, National Electrical Code (NEC)<sup>®</sup> 2002 Article 358, can be installed indoors or outdoors, exposed or concealed, in all kinds of atmospheric conditions, and in hazardous locations, when in accordance with NEC<sup>®</sup> 502.4, 503.3 and 504.20 and providing it is not subject to sever physical damage during and after installation and is properly protected against corrosion.

Also, it provides mechanical protection for the conductors while reducing Electro-Magnetic Field (EMF) exposure and shielding against Electro-Magnetic Interference (EMI). Galvanized Steel Electrical Metallic Tubing is an approved equipment grounding conductor under the 2002 NEC<sup>®</sup> Section 250.118(4). The NEC<sup>®</sup> 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.

### Specifications

Providence Galvanized Steel EMT is manufactured in accordance with the latest edition of the following:  
 American National Standards Institute (ANSI) – American National Standard for Steel Electrical Metallic Tubing, ANSI<sup>®</sup> C80.3.  
 Underwriting Laboratories Standard for EMT-Steel, UL 797  
 National Electric Code<sup>®</sup> 2002-Article 358 (1999 NEC Article 348)  
 Federal Specification- WW-C\_563  
 The above specification may still be referenced, however the federal government has canceled it and adopted the UL797 and ANSI C80.3 standard.

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

### Dimensions and Weight Chart

Trade Size		Approx Wt. per 100Ft. (30.5M)		Nominal Outside Diameter		Nominal Wall Thickness	
U.S.	Metric	lb.	kg	in	mm	in	mm
1/2	16	30	13.6	0.706	17.93	0.042	1.07
3/4	21	46	20.9	0.922	23.42	0.049	1.24
1	27	67	30.4	1.163	29.54	0.057	1.45
1-1/4	35	101	45.8	1.510	38.35	0.065	1.65
1-1/2	41	116	52.6	1.740	44.20	0.065	1.65
2	53	148	67.1	2.197	55.80	0.065	1.65
2-1/2	63	215	98.0	2.875	73.03	0.072	1.83
3	78	263	119.3	3.500	88.90	0.072	1.83
3-1/2	91	349	158.3	4.000	101.6	0.083	2.11
4	103	393	178.3	4.500	114.3	0.083	2.11

### Packaging

Trade Size		Quantity in Primary Bundle		Secondary Bundle			
U.S.	Metric	Ft.	M	Pieces	Feet	Meter	Approx Wt. Kg
1/2	16	100	30.5	700	7000	2135	952.4
3/4	21	100	30.5	500	5000	1525	1043.1
1	27	100	30.5	300	3000	915	911.6
1-1/4	35	50	15.2	200	2000	610	916.1
1-1/2	41	50	15.2	150	1500	457.5	789.1
2	53	10	3.05	120	1200	366	805.4
2-1/2	63	10	3.05	61	610	186.1	597.7
3	78	10	3.05	51	510	155.6	608.2
3-1/2	91	10	3.05	37	370	112.9	585.5
4	103	10	3.05	30	300	91.5	534.7

Notes: 1. Applicable tolerances Length: 10Ft. (3.05m) ± 1/4" (±6.35mm).  
 Outside Diameter: 1/2"-2" ±0.005" (±0.13mm); 2 1/2" ± 0.010" (±0.25mm);  
 3" ±0.015" (±0.38mm); 3 1/2" - 4" ±0.020" (±0.51mm).