

TRUMBULL

TRUMBULL INDUSTRIES, INC.

Phone: 330.799.3333 | 1040 N. Meridian Rd.
Toll Free: 800.677.1799 | P.O. Box 1556
Fax: 330.392.0756 | Youngstown, Ohio 44501

www.trumbull-mfg.com

Polyethylene Encasement Tubing

8 Mil Linear Low Density "Polywrap" for Ductile Iron Pipe

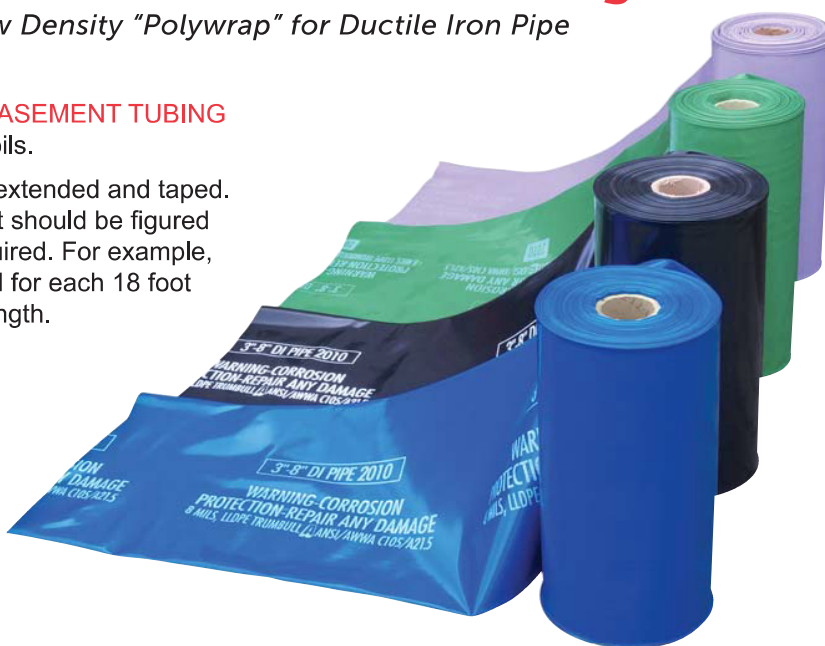
TRUMBULL POLYETHYLENE ENCASEMENT TUBING

protects metallic pipe in corrosive soils.

The tubing is slipped over the pipe, extended and taped. An overlap of approximately two feet should be figured in calculating the total polywrap required. For example, about 20 feet of polywrap is required for each 18 foot length, or 22 feet for each 20 foot length.



Made per
ANSI/AWWA C105/A21.5-10



Black Polywrap

Pipe Size	Layflat Width	Weight lbs./ft.	Continuous		Perforated at 20 ft.		Perforated at 22 ft.		Tape Rolls Needed Per 1,000'
			Trumbull Item No.	Roll Length	Trumbull Item No.	Roll Length	Trumbull Item No.	Roll Length	
3"-6"	16"	0.106	388-9989	300 ft.	388-9942	300 ft.	388-9976	308 ft.	2
3"-8"	20"	0.132			388-9943	300 ft.	388-9961	308 ft.	3
10"	24"	0.159			388-9945	300 ft.	388-9951	308 ft.	4
10"-12"	27"	0.179	388-9993	300 ft.	388-9952	300 ft.	388-9962	308 ft.	4
14"-16"	34"	0.225	388-9996	300 ft.	388-9955	300 ft.	388-9966	308 ft.	6
16"-18"	37"	0.237	special order*		special order*		388-9967	308 ft.	7
18"-20"	41"	0.271	388-9998	300 ft.	388-9957	300 ft.	388-9969	308 ft.	7
24"	54"	0.358	388-9999	150 ft.	388-9958	160 ft.	388-9970	154 ft.	8
30"	67"	0.444	388-9985	150 ft.	special order*		388-9972	154 ft.	10
36"-42"	81"	0.536	388-9986	150 ft.	special order*		388-9974	154 ft.	15
48"	95"	0.629	388-9980	150 ft.	special order*		388-9975	154 ft.	17
54"-60"	108"	0.715	388-9982	150 ft.	special order*		388-9977	154 ft.	20
64"	121"	0.801	388-9984	150 ft.	special order*		special order*		21

* Indicates other sizes, types and colors that are available as "special order"; 4000# minimum per color, or size. See Price List for current sizes, colors & configurations stocked. 4 mil cross-laminated Polywrap also available.

Polywrap continues on the following page . . .

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Polyethylene Encasement Tubing

Continued from the previous page . . .

Colored Polywrap

Stocked "Continuous" as shown below:

Pipe Size	Layflat Width	Weight lbs./ft.	Blue (Water)		Green (Sewer)		Lavender** (Reclaimed Water)		Tape Rolls Needed Per 1,000'
			Trumbull Item No.	Roll Length	Trumbull Item No.	Roll Length	Trumbull Item No.	Roll Length	
3"-8"	20"	0.132	388-8705	300 ft.	388-8755	300 ft.	388-8805	300 ft.	3
10"-12"	27"	0.179	388-8710	300 ft.	388-8760	300 ft.	388-8810	300 ft.	4
14"-16"	34"	0.225	388-8715	300 ft.	388-8765	300 ft.	388-8815	300 ft.	6
18"-20"	41"	0.271	388-8717	300 ft.	special order*		388-8817	300 ft.	7
24"	54"	0.358	388-8720	150 ft.	388-8770	150 ft.	388-8820	150 ft.	8
30"	67"	0.444	388-8780	150 ft.	388-8772	150 ft.	388-8825	150 ft.	10
36"-42"	81"	0.518	388-8723	150 ft.	388-8474***	154 ft.	388-8828	150 ft.	13

* Indicates other sizes, types and colors that are available as "special order"; 4000# minimum per color, or size. See Price List for current sizes, colors & configurations stocked. 4 mil cross-laminated Polywrap also available.

** Lavender and purple Polywrap are printed with the text "Caution Reclaimed Water - Do Not Drink"

*** Item 388-8474 is NOT solid, but is perforated every 22 ft.

Clear Polywrap

12 Mil weight

Pipe Size	Layflat Width	Perf. @	Clear	
			Trumbull Item No.	Roll Length
8"	20"	20 ft.	388-8605	200 ft.
12"	30"	20 ft.	388-8610	200 ft.

Sanitary Sewer Polywrap

8 Mil, for 4" cast iron soil pipe

Pipe Size	Layflat Width	Perf. @	Black	
			Trumbull Item No.	Roll Length
4"	12"	12 ft.	364-9941	408 ft.



Trumbull's Polywrap is manufactured and inspected for compliance with AWWA C105 8 mil minimum thickness.

Don't forget the tape!

Polywrap Tape

Multipurpose PVC Tape. IAPMO/UPC certified for AWWA & plumbing applications.

Trumbull Item No.	Roll Size	Thickness
364-9975	2" x 100'	10 mil



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Zinc Anode Caps

Sacrificial Zinc Anodes

TRUMBULL ANODE CAPS are designed for fighting corrosion of underground bolts and nuts, and iron pipe and fittings.

These threaded hex head caps, when secured to a bolt or stud, become the sacrificial anode, corroding, while the remaining metal parts are protected. This corrosion protection continues until the Zinc is consumed.

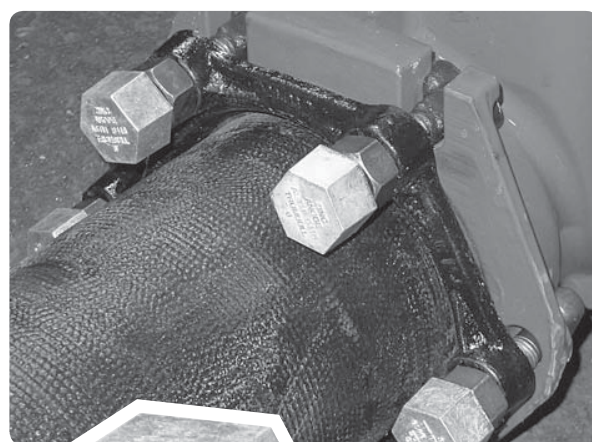
How Zinc Caps Work

Corrosion is an electro-chemical process in which dissimilar metal parts form a galvanic cell when they are in contact with moisture. Using the common battery as an example, moisture becomes the electrolyte while the different metals in the system (such as bolts, nuts, fittings etc.) become the positive and negative ends of the battery.

The "more negative" component loses material through corrosion while protecting the "positive" component, which becomes shielded. Zinc being much more negative than most other materials, the protected component is essentially immune to corrosion as long as there is Zinc remaining to consume.

Zinc Anode Caps offer protection for other system components made of steel, cast iron, ductile iron, brass and copper (as shown in the Galvanic Series Chart on the reverse side). The quantity of Zinc Anode Caps used determines the service life of the protected component.

Trumbull Zinc Anode Caps are made from high grade Zinc that conforms to the chemical requirements of both ASTM B418-88, "Galvanic Zinc Anodes", and, U.S. Navy Specification Mil-18001 H.



Typical Installation



6 oz.



2.5 oz.

2.5 oz. Small Zinc Anode Caps

Description	Domestic	Non-Domestic
	Trumbull Item No.	Trumbull Item No.
5/8"-11, N.C.	364-1004	364-9004
3/4"-10, N.C.	364-1006	364-9006

Please inquire about Anode Caps with different weights or shapes.

6 oz. Large Zinc Anode Caps

Description	Domestic	Non-Domestic
	Trumbull Item No.	Trumbull Item No.
5/8"-11, N.C.	364-1008	364-9008
3/4"-10, N.C.	364-1010	364-9010
7/8"-9, N.C.	spec/order	364-1011
1"-8, N.C.	364-1012	spec/order

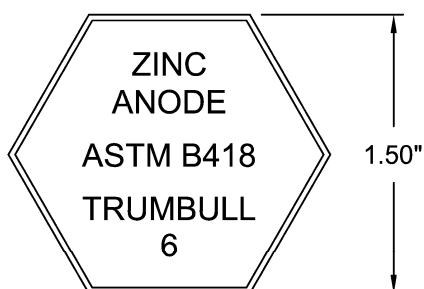
See reverse side for drawing.

Material: High Grade Zinc

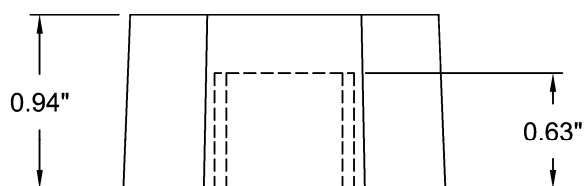
Conforms to chemical requirements of
ASTM B418-88, "Galvanic Zinc Anodes",
and, U.S. Navy Specification, Mil-18001 H

Galvanic Corrosion Chart	
Metal Type	Volts
Zinc (Mil Spec Anodes)	-1.1
Commercially pure aluminum	-0.8
Mild steel, clean	-0.5 to -0.8
Mild steel, rusted	-0.2 to -0.5
Cast iron	-0.5
Lead	-0.5
Mild steel, in concrete	-0.2
Copper, Brass, Bronze	-0.2
High silicon cast iron	-0.2

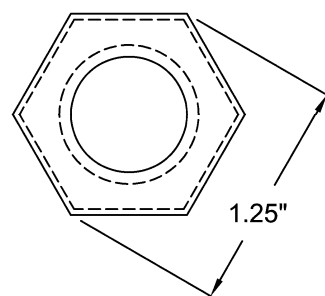
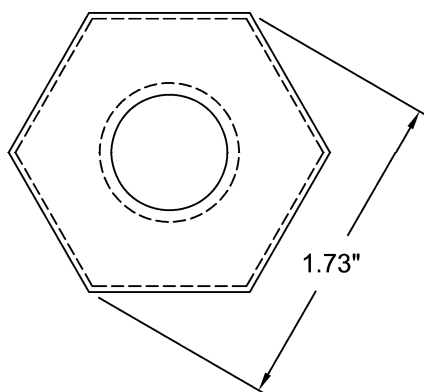
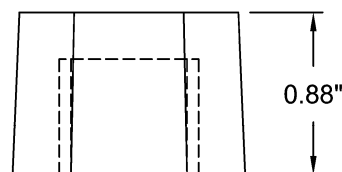
Large Anode Cap
6 ounces



Small Anode Cap
2-1/2 ounces



2° Taper, typical



Item No.	Tapped	Weight (oz.)
364-1004	5/8"-11 NC	2-1/2
364-1006	3/4"-10 NC	2-1/2
364-1008	5/8"-11 NC	6
364-1010	3/4"-10 NC	6
364-1012	1"- 8 NC	6

Drawn:		Drawing Revision:		TRUMBULL INDUSTRIES P.O. Box 1556 1040 N. Meridian Rd. Youngstown, Ohio 44501	Drawn to Scale ZINC ANODE CAPS
Date	Rev.	Date			
6/28/94	M	1/17/11			

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Detectable & Non-Detectable Warning Tapes

For Locating Non-Metallic Pipes Buried Underground



Tape consists of an aluminum core encased in plastic. Stocked in 1,000 foot rolls in standard industry colors.

For installations 30" or shallower, 2" wide tape should be used. For deeper installations, 3" tape should be used. Use electronic pipe/cable locators for best results (as opposed to valve box or metal locators).

Detectable Warning Tapes

Buried Line Type	Width	Color	Trumbull Item No.	Roll Length	Weight Per Roll
Water Line	2"	Blue	364-4950	1,000 ft.	4.00 lbs.
Water Line	3"	Blue	364-4955	1,000 ft.	5.80 lbs.
Water Line	6"	Blue	364-4966	1,000 ft.	11.80 lbs.
Sewer Line	2"	Green	364-4951	1,000 ft.	4.00 lbs.
Sewer Line	3"	Green	364-4956	1,000 ft.	5.80 lbs.
Sewer Line	6"	Green	364-4967	1,000 ft.	11.80 lbs.
Storm Sewer	6"	Green	364-4965	1,000 ft.	11.80 lbs.
Reclaimed Water	3"	Lavender	364-4958	1,000 ft.	5.80 lbs.
Reclaimed Water	6"	Lavender	364-4968	1,000 ft.	11.80 lbs.
Electrical	3"	Red	364-4970	1,000 ft.	5.80 lbs.

Non-Detectable Warning Tapes

Buried Line Type	Width	Color	Trumbull Item No.	Roll Length	Weight Per Roll
Water Line	3"	Blue	364-4940	1,000 ft.	5.80 lbs.
Water Line	6"	Blue	364-4948	1,000 ft.	11.80 lbs.
Sewer Line	3"	Green	364-4945	1,000 ft.	5.80 lbs.
Sewer Line	6"	Green	364-4949	1,000 ft.	11.80 lbs.
"Caution" Barricade	3"	Yellow	165-5201	1,000 ft.	2.60 lbs.
"Danger" Barricade	3"	Red	165-5205	1,000 ft.	2.60 lbs.

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T-Head Bolts & Nuts

Stainless Steel T-Head Bolts

Type 304 or Type 316

The 3/4" x 4" bolt is threaded 1/2" longer than the standard to permit use as a 3/4" x 3-1/2" bolt. Heads are stamped with the type of stainless. Ideal for corrosive soils. Provided with coated stainless steel heavy hex nut to prevent galling.

	Type 304	Type 316
Size	Trumbull Item No.	Trumbull Item No.
3/4" x 3-1/2"	364-3487	364-3387
3/4" x 4"	364-3488	364-3388
3/4" x 4-1/2"	364-3489	364-3389
3/4" x 5"	364-3493	364-3393
1" x 6"	---	364-3394

TYPE 316 BOLTS
include a red Nut

TYPE 304 BOLTS
include a green Nut



Cor-Blue Bolts

Manufactured from corrosion-resistant, high-strength, low-alloy steel in accordance with ANSI/AWWA C111/A21.11, that has a baked-on ceramic-filled fluorocarbon resin, which handles the needs of highly corrosive conditions.

Size	Trumbull Item No.
5/8" x 3"	364-3343
3/4" x 3-1/2"	364-3354
3/4" x 4"	364-3355



Anti-Rotation Bolts (Corten)

Also known as "Lugged T-Bolts"

Used on slotted opening in the MJ bells of hydrants and valves. Square neck on shank of bolt locks in slot to prevent rotation when nut is tightened. Provided with heavy hex nut.

Size	Trumbull Item No.
3/4" x 3-1/2"	364-3390
3/4" x 4"	364-3392

