

ASTM F 1043 GROUP IC

DYNAMIC TUBE & PIPE SPECIFICATIONS

1. **PRODUCT NAME**

DT 40

2. **MANUFACTURER**

Dynamic Tube and Pipe
1713 South Second St
Piscataway, NJ 08854

3. **SPECIFICATION**

DT 40 Fence Framework conforms to Standard Specification ASTM F 1043, Group IC. High-strength steel pipe triple coated per ASTM F 1043:

External coating to have a minimum zinc coating weight of .90 oz/sq.ft. and a verifiable polymer overcoat, internal coating to have a minimum zinc weight of .90 oz/sq. ft.

Electrical resistance welded steel round steel pipe. The exterior surface of the electric weld shall be recoated with the same type of material and thickness as basic zinc coating.

4. **STEEL**

Steel used for the production of DT 40 conforms to ASTM-A653/A653M

Steel is hot dipped galvanized from US production and meets Buy America requirements.

5. **ZINC**

Zinc is Special High grade conforming to ASTM B 6. Weight of zinc is .9 oz./ ft. on BOTH internal and external surface. Coating weight test method shall conform to ASTM A 90.

6. **CONVERSION COATING**

A conversion coating is applied over zinc to enhance corrosion resistance and prepare steel for clear coating. Weight of conversion coating shall be 30 micrograms/in² +/- 15 micrograms/in².

7. **CLEAR ACRYLIC EXTERNAL COATING**

External surface is finished with a coating of a clear acrylic urethane. The thickness of this external coating shall be .5 +/- .2 mils.

Thickness shall be determined in accordance with ASTM Practice E376.

This clear coating shall withstand exposure for 500 hours without failure at a black panel temperature of 145 degrees F when tested in accordance with ASTM Practice D1499.

8. **OPTIONAL SUPPLEMENTAL COLOR COATING**

A minimum 3 mil Polyester coating applied to the exterior

surface. Color shall be in accordance with ASTM F934. Adhesion shall meet a Cross Hatch test in accordance with ASTM D3359 Method B.

This polymer coating shall not fade, crack, blister or split under normal use and withstand weatherometer apparatus for 1000 hours when tested per ASTM Practice D1499.

9. **STRENGTH CHARACTERISTICS**

The minimum yield strength shall be 50,000 psi and the allowable bending moment can be determined by multiplying this minimum yield strength by the section modulus of the selected pipe size. Please refer to chart on back.

10. **INSTALLATION**

Install in accordance with ASTM F 567 and the Chain-Link Manufacturers Institute Product Manual.

11. **AVAILABILITY**

Please contact your Dynamic Tube Representative for a list of distributors in your area:

Midwest Region: 708-426-1010
East Region: 410-257-1363



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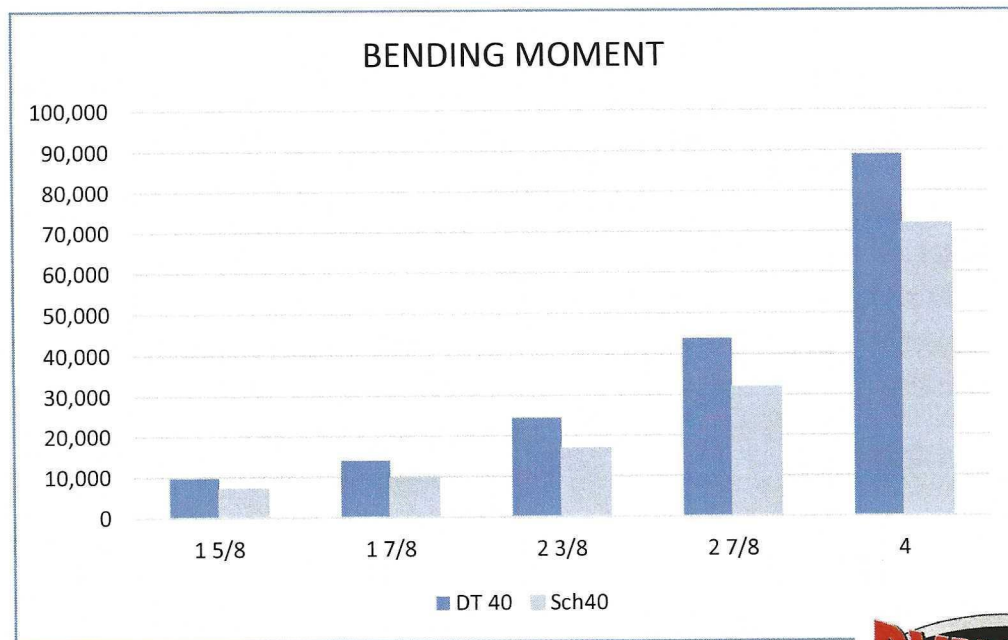
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DT 40 vs. SCH 40 COMPARISON CHART

POST O.D.	Type	OUTSIDE DIMENSIONS		PIPE WALL THICKNESS		WEIGHT GALVANIZED		SECTION MODULUS (inches ³)	YEILD STRENGTH (p.s.i.)	BENDING MOMENT (lb. in.)	BENDING STRENGTH (lbs)
		(in)	(mm)	(in)	(mm)	(lb/ft)	(kg/m)				
1 7/8" O.D.	DT40	1.900	48.26	0.120	3.05	2.28	3.39	0.2810	50,000	14,050	195
1 7/8" O.D.	SCH40	1.900	48.26	0.145	3.68	2.72	4.05	0.3262	30,000	9,786	136
2 3/8" O.D.	DT40	2.375	60.33	0.130	3.3	3.12	4.64	0.4881	50,000	24,405	339
2 3/8" O.D.	SCH40	2.375	60.33	0.154	3.91	3.65	5.43	0.5606	30,000	16,819	234
2 7/8" O.D.	DT40	2.875	73.03	0.160	4.06	4.64	6.91	0.8778	50,000	43,890	610
2 7/8" O.D.	SCH40	2.875	73.03	0.203	5.16	5.8	8.62	1.0640	30,000	31,921	443
4" O.D.	DT40	4.000	101.6	0.160	4.06	6.56	9.76	1.7820	50,000	89,098	1237
4" O.D.	SCH40	4.000	101.6	0.226	5.74	9.12	13.56	2.3940	30,000	71,816	997

4" Manufactured to DTP specification

TOP RAIL											
10' Free Supported, Center Load											
1 5/8" O.D.	DT40	1.660	42.16	0.111	2.82	1.84	2.74	0.1962	50,000	9,810	327
1 5/8" O.D.	SCH40	1.660	42.16	0.140	3.56	2.27	3.38	0.2346	30,000	7,038	235



Specification, descriptions and illustrations are accurate as known at time of publication and are subject to change without notice.