

Zinc Coated Framework – LG-40

ASTM F1043 Group IC, Federal specification RR-F-191/3E Class 1 Grade B,
AASHTO M-181 Grade 2

1. PRODUCT NAME

Galvanized Framework - LG-40

2. DISTRIBUTOR

Merchants Metals
Corporate Headquarters:
211 Perimeter Center Parkway
Suite 250
Atlanta, GA 30346
Phone: (866) 888-5611

Merchants Metals Service Centers are located throughout the United States.

3. PRODUCT DESCRIPTION

Basic Use:

LG-40 pipe is used as end, corner or line posts, and rails, for commercial, industrial and institutional installations of chain link fencing. The requirements for this material are contained in various government specifications for use in prison, road, dock, airport, housing, forestry, and military installations.

LG-40 pipe is typically used in installations which incorporate zinc-coated or aluminum-coated steel chain link fence fabric, although it may also be specified for use with other types of fabric, i.e. PVC coated.

Composition and Materials:

LG-40 pipe is manufactured using cold formed steel with a higher yield strength and tensile strength than schedule 40 pipe. The pipe is triple coated to provide and maintain a lustrous appearance in all climates and under the most severe atmospheric conditions.

Standards:

ASTM F567 Installation of Chain Link Fence
ASTM F1043 Strength and Protective Coatings on Metal Industrial Chain Link Fence Framework, Group IC
Federal specification RR-F-191/3E, Fence Posts and Rails, Class 1, Grade B
American Association of State Highway Transportation Officials (AASHTO) M-181, Grade 2
Army Corps of Engineers UFGS
Department of the Navy
Federal Aviation Administration F162
Federal Highway Administration
U.S. Department of Justice – Federal Bureau of Prisons

4. TECHNICAL DATA

General:

The manufacturer or distributor, if requested, will supply samples and certification that all materials furnished fully comply with the appropriate specifications.

Yield Strength Requirement:

The yield strength of LG-40 pipe is 50,000 psi (344 MPa), min.

Coating Requirements:

The exterior of LG-40 pipe is triple coated, ensuring the pipe will maintain its appearance. The triple coating consists of a metallic coating of zinc, plus a conversion coating and a clear organic film, conforming to ASTM B6 coating requirements.

The interior of the pipe is coated with a

zinc rich paint that provides a high level of corrosion resistance to the interior of the pipe.

5. INSTALLATION

Install fence posts in accordance with ASTM Practice F567.

6. AVAILABILITY AND COST

Availability:

LG-40 pipe is available for shipment throughout the United States and worldwide.

Cost:

Material costs may vary depending on specific requirements. Costs may be obtained through all Merchants Metals Service Centers.

7. MAINTENANCE

Periodic inspection is recommended but no routine maintenance is required.

8. TECHNICAL SERVICES

Specifications, drawings and other technical services are available through the Merchants Metals Technical Sales Department or your local Merchants Metals Service Center.

Technical Sales Department:
Email: Tech-Info@merchantsmetals.com
Website: www.merchantsmetals.com

LG-40 Dimensions and Strength Characteristics

Fence Industry	Decimal O.D. Equivalent		Pipe Wall Thickness		Weight		Section Modulus	x	Min. Yield Strength	=	Max Bending Moment	Calculated Load (lbs.)		
	O.D.	in.	mm	in.	mm	lb./ft.						kg/m	in. ³	psi
												4 ft.	6 ft.	
1 3/8 in.	1.315	33.40	.104	2.64	1.35	2.01	.1111	x	50,000	=	5,555	185	116	77
1 5/8 in.	1.660	42.16	.111	2.82	1.84	2.74	.1961	x	50,000	=	9,810	327	204	136
2 in.	1.900	48.26	.120	3.05	2.28	3.39	.2810	x	50,000	=	14,050	468	293	195
2 1/2 in.	2.375	60.33	.130	3.30	3.12	4.64	.4881	x	50,000	=	24,405	814	508	339
3 in.	2.875	73.03	.160	4.06	4.64	6.90	.8778	x	50,000	=	43,890	1463	914	610
3 1/2 in.	3.500	88.90	.160	4.06	5.71	8.50	1.3408	x	50,000	=	67,040	2235	1,397	931
4 in.	4.000	101.60	.160	4.06	6.56	9.76	1.7819	x	50,000	=	89,095	2970	1,856	1,237

Technical Sales Department:
Email: Tech-Info@merchantsmetals.com
Website: www.merchantsmetals.com