



Schedule 40 Pipe, Galvanized OnGuard Sch 40

ASTM F1043 Group I-A, ASTM F1083, ASTM A53, Federal specification RR-F-191 Type I, Grade A, AASHTO M-181 Grade 1

PRODUCT NAME

O n G u a r d Schedule 40 Pipe

Galvanized

DISTRIBUTOR

Stephens Pipe & Steel, LLC
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Russell Springs, Kentucky 42642
800 451 2612
spsfence.com

PRODUCT DESCRIPTION

Basic Use:

Schedule 40 pipe for use as commercial, industrial and institutional installations of chain link fencing. Schedule 40 pipe is the historically the original product used material for this purpose. The requirements for this material are contained in various government specifications for use in commercial, industrial, and civil installations.

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

Composition and Materials:

Schedule 40 pipe is produced from steel manufactured by the electric furnace, open hearth, or basic oxygen process.

Welded pipe NPS 4 and under in size may be butt-welded. Welded pipe over NPS 4 is typically electric welded.

Standards:

ASTM F1043 *Strength and Protective Coatings on Metal Industrial Chain Link Fence Framework*, Group I-A

ASTM F1083 *Pipe, Hot-Dipped Zinc-Coated (Galvanized) Welded, for Fence Structures*
ASTM A53 *Pipe, Steel, Hot Dipped, Zinc Coated, Welded*

ASTM F567 *Installation of Chain Link Fence*
ASTM A 90/A90M

Test Method for Weight of Coating on Zinc-Coated (Galvanized) Iron or Steel Articles

Federal specification RR-F-191K/3D
Fencing, Wire and Post Metal (Chain Link Fence Posts, Top Rails, and Braces), Class Grade A AASHTO M-181 *Chain Link Fence* (American Association of State Highway Transportation Officials)

TECHNICAL DATA

General:

The manufacturer or distributor can supply samples and certification that all materials furnished fully comply with the appropriate specifications.

Galvanized Steel Framework:

This information for hot-dipped galvanized welded steel pipe covers the requirements for pipe sizes NPS 1 to NPS 8. (Note: The dimensionless designator NPS is used instead of traditional terms such as nominal diameter, size, and nominal size.)

Tensile Requirements:

The **tensile strength** of schedule 40 pipe is 48,000 psi (330 MPa), min.

The yield strength of schedule 40 pipe is 30,000 psi (205 MPa), min.

Coating Requirements:

The minimum zinc coating weight of schedule 40 pipe is 1.8 oz/ft² (550 g/m²), determined from the average results of two specimens taken for test, and not less than 1.6 oz/ft² (490 g/m²) for either of these specimens. The weight of zinc coating is calculated by dividing the total weight of zinc, inside plus outside, by the total area, inside plus outside, of the area coated.

Schedule 40 pipe with a minimum average zinc coating weight of 2.0 oz/ft² (610 g/m²) is also available.

Each specimen shall have not less than 1.3 oz/ft² (400 g/m²) of zinc coating on each surface, calculated by dividing the weight of zinc on a given surface (inside or outside) by the area of the surface coated (inside or outside). The weight of zinc coating is determined in accordance with ASTM A90/A90M.

The tolerance for pipe diameter is 1/64 inch (0.4 mm) over for pipe NPS 1% and under and 1/32 inch (0.8 mm) under that specified. For pipe size NPS2 and over, the outside diameter shall be + 1% of that specified.

Pipe mill joint lengths may range from 18 ft to 24 ft, or posts are available cut-to-length.

INSTALLATION

Install fence posts in accordance with ASTM Practice 567.

AVAILABILITY AND COST

Availability: Schedule 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 from your SPS Sales Representative.

MAINTENANCE

Periodic inspection is recommended but no routine maintenance is required.

TECHNICAL SERVICES

Technical services are available. Call your sales representative for assistance