



## Polymer Coated – OnGuard SPSV 40

### ASTM F1043 Group I-C, Federal specification RR-F-191 Class 1 Grade B, AASHTO M-181 Grade 2

#### PRODUCT NAME

Polymer Coated Framework,  
OnGuard SPSV 40

#### Manufacturer

**Stephens Pipe & Steel, LLC**

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#### PRODUCT DESCRIPTION

OnGuard SPSV 40 pipe is the strongest readily available product and is used as end, corner or line posts, and rails, for industrial, commercial and institutional applications.

It is available in both a heavy PVC coating and a lighter Polyester coating. The Polymer coating, PVC or polyolefin elastomer shall have a film thickness of 10-mils [0.254-mm] minimum or polyester 3-mils [0.0076-mm] minimum coating. It can be specified in conjunction with all metallic coatings and is applied to the exterior surface of tubular shapes, and to the exterior and interior surfaces of roll-formed open-sided shapes. Unless otherwise specified, color of the coating shall be in accordance with Specification F 934.

The requirements for this material are contained in numerous government specifications for use in prison, road, dock, airport, housing, forestry, and military installations. OnGuard SPSV 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:

OnGuard SPSV 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 pleasing appearance in all climates and severe atmospheric conditions.

#### Standards:

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

ASTM F567 *Installation of Chain Link Fence* Federal specification RR-F-191K/3D

Fencing, Wire and Post Metal (Chain Link Fence Posts, Top Rails, and Braces), Class 1, Grade B AASHTO M-181 *Chain Link Fence*, Grade 2 (American Association of State Highway Transportation Officials), Grade 2

Federal Aviation Administration AC 150/5370 *Item F162*

#### TECHNICAL DATA

##### General:

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

##### Polymer Coated Steel Framework:

The information contained herein for high yield strength/high tensile strength pipe covers the requirements for pipe sizes NPS 1 to NPS 3 1/2, corresponding to fence industry sizes 1-3/8" to 4". Note: The dimensionless designator, NPS is used instead of traditional terms such as nominal diameter, size, and nominal size.)

##### Yield Strength Requirement:

The yield strength of OnGuard SPSV 40 is 50,000 psi (344 MPa), min.

#### Coating Requirements:

The exterior of OnGuard 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 F1043 Type B coating requirements. The interior of the pipe is coated with hot dip zinc conforming to ASTM F1043 Type B coating requirements. This coating provides a high level of corrosion resistance to the interior of the pipe.

##### Optional Supplemental Color Coating-

PVC, polyester polymer, or polyolefin elastomer coating shall be of a color conforming to Specification F 934. The PVC, polyester, or polyolefin elastomer coating shall not fade, crack, blister, or split under normal use. It shall have demonstrated the ability to withstand exposure in a weatherometer apparatus for 1000 h without failure when tested with Practice D 1499.

Mill 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:** OnGuard SPSV 40 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 Stephens Pipe Sales Representative.

#### MAINTENANCE

No routine maintenance is required.

#### TECHNICAL SERVICES

Technical services are available. Call your sales representative for assistance.

