



## POLYMER COATED FRAMEWORK – OnGuard SS/WT 40

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

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#### PRODUCT NAME

Polymer Coated Framework,  
OnGuard SPSV 40

#### DISTRIBUTOR

**Stephens Pipe & Steel, LLC**

**PO Box 618, 2224 E Hwy 619**

**Russell Springs, Kentucky 42642**

**800 451 2612**

**spsfence.com**

#### 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 (.254 mm) minimum or polyester 3 mils (.0076 mm) minimum coating. It can be specified in conjunction with all metallic coatings and is applied to the exterior surface of tubular shapes. Unless otherwise specified the color of the coating shall be in accordance with ASTM 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 poly-coated steel chain link fence fabric, although it may also be specified for use with other types of fabric, ie. zinc or aluminized coated.

#### **Composition and Materials:**

OnGuard SPS 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<sup>1</sup>/<sub>2</sub>, 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 SPS 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 rated to a Type B interior zinc weight per ASTM F1043 Type B coating requirements. The PVC, polyester, and polyolefin elastomer coating shall not fade, crack, or peel under normal conditions. It shall withstand 1000 hours of Weatherometer without failure based on Practice D1499.

#### **INSTALLATION**

Install fence posts in accordance with ASTM Practice 567.

#### **AVAILABILITY AND COST**

**Availability:** OnGuard SPS 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.