DMS-4500, Steel Strand, Uncoated Seven-Wire Stress Relieved and Low Relaxation for Prestressed Concrete

Overview

(Formerly D-9-4500, Steel Strand, Uncoated Seven-Wire Stress Relieved and Low Relaxation for Prestressed Concrete).


This Specification shall govern for the materials, composition, quality, sampling and testing of steel strand, uncoated seven-wire stress-relieved and low-relaxation for prestressed concrete.

Notice to Suppliers

All suppliers are notified that any material proposed for use on a project shall be from a prequalified strand manufacturer.

Prequalification

Below is information regarding the prequalification of strand manufacturers:

♦ All prospective strand manufacturers who desire to prequalify their product, governed by this Specification, should contact Texas Department of Transportation, Construction Division, Director of Materials & Pavements Section (CP51), 125 East 11th Street, Austin, Texas 78701-2483.

♦ Prequalification shall be performed in accordance with "Tex-741-I, Qualification Procedure for Reinforcing Steel Producing Mills."

♦ Once prequalified, random inspection visits will be performed by CST/M&P.

Material Requirements

The seven-wire steel strand shall conform to all of the requirements of ASTM A 416.

Documentation

The strand manufacturer shall complete the Form D-9-PS-l, Domestic Certification Form, for strand being furnished for The Department projects, with the following information:

♦ heat numbers and coil/reel numbers being furnished
♦ the modulus of elasticity for each coil/reel
♦ the producing mill and heat numbers of all rod used to produce the strand.

By signing and notarizing Form D-9-PS-1, Domestic Certification Form, the strand manufacturer is certifying and attesting to the following:

♦ that all mill test report(s) from the producing mill(s) of the base metal (rod) used to manufacture the seven-wire strand contains a domestic clause statement identifying the rod furnished as being melted and manufactured in the United States of America (USA)

♦ that all the manufacturing processes used in the production of the strand occurred in the USA

♦ that all material furnished meets the requirements of this Specification, and that all strand manufacturers’ test reports for the finished strand are on file and available for inspection by The Department.

Form D-9-PS-1 shall be notarized and signed under penalty of perjury by an authorized corporate official of the strand manufacturer.

The original Form D-9-PS-1 shall be mailed to: Texas Department of Transportation, Construction Division, Director of Materials & Pavements Section (CP51), 125 East 11th Street, Austin, Texas 78701-2483, prior to shipping the strand.

A copy of Form D-9-PS-1 shall be furnished with the shipment.

**Strand Identification**

The strand manufacturer shall affix ID tags on each coil to include as follows:

♦ Strand manufacturer’s name

♦ Strand diameter

♦ Grade

♦ Modulus of elasticity

♦ Heat number

♦ Coil number

♦ Coil length

♦ Identify the coil as being manufactured in the USA.

**Sampling and Testing**

The Department reserves the right to perform any and all tests required to verify compliance with specification requirements.