

ITEM 05607.85XX M - HIGH TENSILE POLYMER SNOW FENCE

DESCRIPTION

This work shall consist of furnishing and erecting high tensile polymer snow fence of the size and at the locations shown on the plans, and in reasonable close conformity with the lines and grades shown on the plans or established by the Engineer. Construction of fencing shall be done in accordance with this specification, the plans and the manufacturer's instructions.

MATERIALS

Fence System. Snow fence rails and the post connection system furnished under this item shall be of the type manufactured by:

CENTAUR HTP Fence Systems
2802 East Avalon Avenue
Muscle Shoals, AL 35661-3748
(1-800-368-7635)

Fence rails shall be 127 mm wide high tensile polymer fence rails with three embedded wires. The rail color shall be black and the rails shall be fully stabilized for ultraviolet radiation resistance.

All hardware shall be as specified by the fence rail manufacturer.

Wood Poles. Wood poles and braces shall comply with the requirements of §712-14, Stress Graded Timber and Lumber. The wood poles and braces shall have a minimum allowable extreme fiber stress of 11,000 kPa. The wood poles shall be subject to inspection before and during treatment at the option of the Department. They shall be sound, free from loose knots or decay, and with no through checks on tops or butts. Posts shall be machine peeled to a smooth uniform appearance and free from all inner bark.

All wood poles and braces shall be pressure treated in accordance with the requirements of §708-31, Wood Preservative - Water Borne. Unless otherwise specified, any necessary cutting shall be completed prior to pressure treatment. If cutting is permitted and performed after treatment, such cuts and holes shall be swabbed, sprayed, or brushed with two coats of the preservative initially used. Handling and care shall conform to AWPA Standard M4.

Approval of poles for use under this specification will be by the Engineer. Application for such approval must contain the following information:

Species of wood proposed for use.

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Type of preservative and minimum retention in kg per cubic meter.

Pressure preservative treatment method.

The requirements for inspections contained in §712-14 and §708-31 are waived.

Steel Posts. Steel posts shall conform to the material requirements of §710-21, Box Beam Guide Railing and Median Barrier, Rails. Acceptance will be based upon certification of the manufacturer.

Steel Angles. Angles shall be structural carbon steel conforming to the requirements of ASTM A36M.

Steel Hardware. Bolts, nuts and circular washers shall meet the requirements of ASTM A307, A563M and F436, respectively. All hardware shall be plated or coated in accordance with the provisions of Type II of §719-01.

Grout. Grout shall consist of one part cement conforming to the requirements of §701-01, Portland Cement, Type 2 and two parts fine aggregate conforming to the requirements of §703-07, Concrete Sand. The grout shall be mixed to a plastic consistency showing no signs of free water. The mixing and consolidation of the grout shall be in a manner approved by the Engineer.

The basis for acceptance for all materials will be the manufacturer's certification that the requirements of this specification have been met.

CONSTRUCTION DETAILS

The Contractor shall perform such clearing and grubbing as may be necessary to construct the fence to the required grade and alignment, not to exceed ten feet from the fence line. Fence shall generally follow the contour of the ground. Grading shall be performed where necessary to provide a neat appearance and to maintain the specified bottom gap.

The snow fence shall be erected at the location shown on the plans. Except as otherwise specified, installation details and procedures shall conform to the manufacturer's installation manual. Fence connections at line posts shall allow free lateral movement of the fence rails. Rail spacing shall be as indicated on the plans. The rail shall be tensioned to at least 1800 N, but no more than 2200 N, using a single ratchet-type strap winch. Distance between tensioners shall not exceed 300 m.

Rails shall be run straight, with a vertical alignment deviation over a three-pole span not to exceed 7 mm. Poles shall be set plumb with a maximum lean of 15 mm in any direction, and to

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the required grade and alignment. The windward face of all poles shall be within 15 mm of the indicated fence line.

At the direction of the Engineer, rails may be added between vertical supports at the bottom of the fence as necessary to maintain the required bottom gap over uneven terrain.

METHOD OF MEASUREMENT

Fencing shall be measured as the number of linear meters along the top of the fencing from center to center of the end poles, properly furnished, and installed in accordance with the plans, specifications, and directions of the Engineer. An allowance of 4 meters will be added for each end pole, corner pole and intermediate pole installed in accordance with the plans, specifications, and directions of the Engineer.

BASIS OF PAYMENT

The unit price bid per linear meter of fencing shall include the cost of furnishing all labor, materials, tools, and equipment necessary to satisfactorily complete the work, including any necessary grading.

Payment will be made under the following items:

Item 05607.8501 - High Tensile Polymer Snow Fence, 1.8 m Height

Item 05607.8502 - High Tensile Polymer Snow Fence, 2.1 m Height

Item 05607.8503 - High Tensile Polymer Snow Fence, 2.4 m Height

Item 05607.8504 - High Tensile Polymer Snow Fence, 2.7 m Height

Item 05607.8505 - High Tensile Polymer Snow Fence, 3.0 m Height