

SECTION 074320
CEDAR SHINGLE ROOFING (S-4)

1. DESCRIPTION

This specification shall govern for all work necessary for furnishing and installing a cedar shingle roof on the project.

2. MATERIALS

Cedar shingles shall be Red Tagged Exterior Fire-X, Class B, as manufactured by American Wood Treater, Inc., or approved equal.

3. CONSTRUCTION METHODS

A. Roof Pitch and Exposures

On roof slopes of 4" rise in 12" horizontal run (pitch - 1/6) and steeper, the standard exposures shall be:

1. 5.0" for 16-inch shingles
2. 5.5" for 18-inch shingles
3. 7.5" for 24-inch shingles

On roof slopes of less than 4" rise in 12" horizontal run, the standard exposures shall be:

1. 4.0" for 16-inch shingles
2. 4.5" for 18-inch shingles
3. 6.0" for 24-inch shingles

B. Roof Application

Shingles shall be applied in straight, single courses and shall be tripled at all eaves. Butts of first-course shingles shall project 12" beyond the first sheathing board. Spacing between adjacent shingles (joints) shall be one-quarter inch. Joints in any one course shall be separated not less than 12" from joints in adjacent courses, and joints in alternate courses shall not be in direct alignment.

C. Underlayment

Underlayment shall be Type 30-lb. felt. When used with spaced sheathing, the horizontal felt overlap shall extend over a wood lath and the vertical joint must be lapped a minimum of 4 inches to insure proper waterproofing.

D. Valleys, Hips and Ridges

Roof valley flashing shall be No. 18 galvanized sheet gauge metal applied over an underlayment of Type 30-lb. felt. The metal shall extend a minimum of 10 inches from the centerline each way.

Hips and ridges shall be constructed of shingles that are uniform from 3" to 5" in width. Adjacent courses shall have alternate overlap. Shingles shall be placed on an underlayment of Type 30-lb. felt.

E. Nails

Each shingle shall be applied with two (only) hot-dipped zinc or aluminum nails. Each nail shall be placed not more than 3/4" from the side edge of the shingle and not more than 1" above the exposure line. Nails shall be 3d (13") for 16" and 18" shingles and 4d (12") for 24" shingles. In all cases, nails shall be long enough to penetrate at least 3/4" or through the sheathing. Drive nails flush, but not so that the head crushes the wood.

4. WARRANTY

Upon completion of the project, the Contractor shall supply a 20-year manufacturer's warranty for the cedar shingles. The project will not be accepted and final payment will not be made until the warranty is supplied. If warranty registration with the manufacturer is required, the Contractor shall make said registration on behalf of the City. Any signatures required on the registration shall be done by the Engineer or his authorized representative. The Contractor shall furnish proof, satisfactory to the Engineer, that the warranty is registered with the manufacturer.

5. MEASUREMENT AND PAYMENT

The cedar shingle roof shall be measured for payment at the unit specified in the proposal. This unit shall include all underlayment, sheet metal and other incidentals required to provide the complete roofing system in place. Payment at the unit specified shall be full compensation for furnishing all materials, tools, equipment, labor and incidentals necessary to complete the work.