

SECTION 06139

TIMBER CONSTRUCTION

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Engineered Structures, including:
 - 1. Commercial buildings.
 - 2. Industrial buildings.
 - 3. Residential buildings.
 - 4. _____.

- B. Landscape structures, including:
 - 1. Bridges.
 - 2. Arbors.
 - 3. Pergolas.
 - 4. Gazebos.
 - 5. Field houses.
 - 6. _____.

- C. _____.

1.2 RELATED SECTIONS

- A. Section 06100 - Rough Carpentry.

- B. Section 06151 - Cedar Decking.

- C. Section 06221 - Wood Trim.

- D. Section _____ - _____.

1.3 REFERENCES

- A. NLGA/WCLIB - National Lumber Grading Association/West Coast Lumber Inspection Bureau "Grading Standards."

- B. _____.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Inspect the materials upon delivery to assure that specified products have been received.

- B. Store materials in safe area, away from construction traffic; store under cover and off ground, protected from moisture.

- C. Keep materials clearly separated and identified with grade marks legible. Keep damaged material identified as damaged and stored separately.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Member of the Western Red Cedar Lumber Association (WRCLA). ASD.
- B. Requests for substitutions will be considered in accordance with provisions of Section 01600.
- C. Substitutions: Not permitted.
- D. Provide all western red cedar from a single supplier.

2.2 MATERIALS

- A. Western Red Cedar: WRCLA Western Red Cedar.
 - 1. Grade: No. 2 and Better Clear.
 - 2. Grade: C and Better Clear.
 - 3. Grade: D and Better Clear.
 - 4. Grade: Appearance Knotty.
 - 5. Grade: Appearance Knotty, structural.
 - 6. Grade: No. 2 and Better Structural.
 - 7. Grade: Standard Beams, Posts, and Timbers.
 - 8. Classification: Light Framing.
 - 9. Classification: Structural Joists and Planks.
 - 10. Classification: Beams and Stringers.
 - 11. Classification: Posts and Timbers.
 - 12. Surface Texture: Saw Textured.
 - 13. Surface Texture: Rougher Headed.
 - 14. Surface Texture: Surfaced Four Sides (S4S).
 - 15. Moisture Content: Green (unseasoned).
 - 16. Moisture Content: Air-dried.
 - 17. Moisture Content: Kiln-dried, 2 inch (50 mm) thickness only.
- B. Fasteners:
 - 1. Nails: Hot-dipped galvanized.
 - 2. Nails: Aluminum.
 - 3. Nails: No. 304 stainless steel.
 - 4. Nails: No. 316 stainless steel.
 - 5. _____.
- C. Timber Connectors: _____.

PART 3 EXECUTION

3.1 PREPARATION

- A. Coordinate work with related trades; scribe and cope timbers for accurate fit. Allow installation of related work to avoid cutting and patching.
- B. Select timbers of longest possible lengths. Ensure that knots and obvious defects will not interfere with placing fasteners or making proper connections. Cut out and discard defects that render a piece unfit to serve its intended function.
- C. Discard timbers that are warped, twisted, bowed, crooked, or otherwise defective.

3.2 INSTALLATION

- A. Install timbers square, plumb, and level, closely fitted and securely fastened.
- B. Nail pieces to provide penetration of not less than half nail length into piece receiving nails. However, 16d nails may be used to connect two pieces of nominal 2-inch (50 mm) timbers. Nail without splitting timbers.

3.3 FIELD QUALITY CONTROL

- A. Timber construction may be rejected, whether or not installed, for excessive warp, twist, bow, or crook, as well as for improper cutting or fitting.

3.4 ADJUSTING AND CLEANING

- A. As work proceeds, maintain premises free of unnecessary accumulation of tools, equipment, surplus materials, and debris related to this work.

END OF SECTION