

**TIMBER FABRICATION AND INSTALLATION**

1. **APPLICABILITY**

Construction Specification 83 is applicable to all types of timber construction (except pile driving or the use of round timber) that are normally an integral part of structures designed and installed under agency programs. Supplementary specifications will be required for works of a special nature, such as bridges or buildings.

2. **MATERIAL SPECIFICATIONS**

Material Specifications 581, 582, 584 and 585 and Construction Specification 84 are complementary to Construction Specification 83.

3. **ITEMS TO BE INCLUDED IN CONTRACT SPECIFICATIONS AND DRAWINGS**

- a. Plans and dimensions of all structural elements.
- b. Complete details of all connections including number, type and size and kind of nails or spikes or bolts with nuts if the design requires that these be specified; depth of embedment of screws and pins, etc.
- c. For lumber and timber, specify:
  - (1) Stress grade.
  - (2) Species according to standard commercial name.
  - (3) Heartwood requirements or other special requirements.
  - (4) Nominal size and dress requirements (rough or dressed).
  - (5) Preservative treatment, if required. (Refer to ASTM D 1760 for guidance to type of treatment.)
  - (6) Applicable grading rule, including the name of the agency that sponsors the rule (such as National Hardwood Lumber Association), the paragraph number and year of issue.
- d. For plywood and chipboard, specify:
  - (1) Number of plies, width and length of sheet.
  - (2) Species or group according to PS 1.
  - (3) Grade
  - (4) Type (exterior, interior)
  - (5) Finished thickness

- (6) Finish requirements (such as sanded or unsanded).
- e. Designation of surfaces to be painted.
- f. Special instructions concerning cutting of treated lumber or timber, if such operations are to be allowed.

#### 4. DISCUSSION OF METHODS

##### a. Section 6, Measurement and Payment.

- (1) Method 1 is intended for use in cases where the quantities of lumber and timber are large and the measurement of structural elements is feasible.
- (2) Method 2 is considered more appropriate for structures of moderate size.
- (3) Method 3 provides a flexible method of payment when there are some structure units that can be paid for as completed structures and also structures that lend themselves to partial payment on a linear foot basis.

When specifications are prepared using electronic procedures and all but one method are deleted for use in the contract specification, delete "All Methods The following provisions apply to all methods of measurement and payment." and left justify the remaining text.