

SECTION 6A

ROUGH CARPENTRY

1. APPLICABLE PUBLICATIONS: The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

Federal Specifications (Fed. Spec.):

FF-N-105B Nails, Brads, Staples and Spikes: Wire,
& Int. Am-4 Cut and Wrought

HH-I-521F Insulation Blankets, Thermal (Mineral
Fiber, for Ambient Temperatures)

U.S. Department of Commerce, Product Standard (Prod. Std.):

PS 20-70 American Softwood Lumber Standard

American Wood Preservers Bureau (AWPB) Standards:

LP-2-80 Softwood Lumber, Timber and Plywood
Pressure Treated with Water-Borne
Preservatives for Above Ground Use (Rev.
Mar 1980)

LP-3-78 Softwood Lumber, Timber and Plywood
Pressure Treated with Light Hydrocarbon
Solvent-Penta Solution for Above Ground Use
(Rev. Mar 1978)

LP-4-78 Softwood Lumber, Timber and Plywood
Pressure Treated with Volatile Hydrocarbon
Solvent-Penta Solution for Above Ground Use
(Rev. Mar 1978)

LP-22-80 Softwood Lumber, Timber and Plywood
Pressure Treated with Water-Borne
Preservatives for Ground Contact Use (Rev.
Mar 1980)

National Hardwood Lumber Association (NHLA) Publication:

Rules for the Measurement and Inspection of Hardwood and Cypress
Lumber (Jan 1982)

1.5 Northeastern Lumber Manufacturers Association, Inc. (NELMA)
Publication:

Standard Grading Rules for Northeastern Lumber (1980)

1.6 Northern Hardwood and Pine Manufacturers Association, Inc. (NHPMA)
Publication:

Standard Grading Rules for Northern & Eastern Lumber (Dec 1978; Rev.
Mar 10, 1982)

1.7 Redwood Inspection Service (RIS) Publication:

Standard Specifications for Grades of California Redwood Lumber (Jan
1981; Suppl 1, Jun 1981)

1.8 Southern Cypress Manufacturers' Association (SCMA) Publication:

Standard Specifications for Grades of Tidewater Red Cypress (Apr
15, 1975)

Southern Pine Inspection Bureau (SPIB) Publication:

Grading Rules (March 15, 1977; including Rev. 1 thru 10)

West Coast Lumber Inspection Bureau (WCLB) Standard:

No. 16

Standard Grading and Dressing Rules for
Douglas Fir, Western Hemlock, Western Red
Cedar, White Fir, Sitka Spruce Lumber (Sep
1, 1970; Rev. 1, 1981)

2. MATERIALS shall conform to the respective specifications and other
requirements specified below:

2.1 Accessories and Nails:

2.1.1 Anchor Bolts: Steel, size as indicated, complete with nuts and
washers.

2.1.2 Expansion Shields: Type and size best suited for intended use.

2.1.3 Nails and Staples: Size and type best suited for purpose, in
accordance with Fed. Spec. FF-N-105 when applicable to type used.

2.2 Nonstress Graded Members: Nonstress graded members shall include
plates, caps, blocking and nailers. Members shall be standard grade or No.
2 grade. Nonstress member grades shall conform to the National Grading
Rule for Dimension Lumber established in conformance with Section X of
Prod. Std. PS 20 and as applied in individual grading rules of applicable
grading agencies. For species graded under other grading rules, grade used
shall be equivalent to grades outlined above. Sizes shall be as follows
unless otherwise shown:

Members

Size (inches)

Blocking

2 x 4 or such larger size indicated.

2.3 Batt or Blanket Insulation: Mineral wool, Fed. Spec. HH-I-521,
type II.

3. GRADING AND MARKING: Lumber and insulation shall bear the grademark, stamp or other identifying marks indicating grades of material and rules or standards under which produced. Such identifying marks on a material shall be in accordance with the rule or standard under which the material is produced, including requirements for qualifications and authority of the inspection organization, usage of authorized identification, and information included in the identification. The inspection agency for lumber shall be certified by the Board of Review, American Lumber Standards Committee, to grade species used. Except for lumber, bundle marking or certificates will be permitted in lieu of marking each individual piece.

4. SIZES: Lumber sizes shall conform to Prod. Std. PS 20, and unless otherwise specified, lumber shall be surfaced on four sides. Sizes for materials other than lumber shall conform to requirements of the rules or standards under which produced. Size references unless otherwise specified are nominal sizes and actual sizes shall be within manufacturing tolerances allowed by the standard under which the product is produced.

5. MOISTURE CONTENT: At the time lumber and other materials are delivered and when installed in the work their moisture content shall be as follows:

Treated and untreated lumber 2 inches or less in thickness, except roof planking: 19 percent maximum.

Materials other than lumber: In accordance with standard under which product is produced.

6. DELIVERY AND STORAGE: Materials shall be delivered to the site in undamaged condition, stored in fully covered, well ventilated areas, and protected from extreme changes in temperature and humidity.

7. SAMPLES AND DESCRIPTIVE DATA: The following shall be submitted for approval:

Insulation: Two square feet of each type and manufacturer's installation instructions.

8. PRESERVATIVE TREATMENT: To the extent indicated below, wood members shall be preservative-treated by pressure methods and so marked in accordance with the applicable AWPB standards. Unless otherwise specified, it will include all wood members exposed to weather or in contact with soil, water, masonry or concrete. Except as otherwise specified, treatment shall be in accordance with AWPB LP, 2, LP, 22, LP-3 or LP-4, at the option of the Contractor.

9. INSTALLATION OF MISCELLANEOUS WOOD MEMBERS AND INSULATION:

9.1 General: Members shall be closely fitted, accurately set to required lines and levels, and rigidly secured in place.

9.2 Plates: Plates shall be set level and square and fastened as indicated. A minimum of two anchors shall be used for each piece.

9.3 Blocking shall be provided as necessary for application of other materials or building items.

9.4 Nailers shall be provided as necessary for the attachment of finish materials. Nailers shall be run in lengths as long as practicable, butt jointed, and rigidly secured in place.

9.5 Batt or Blanket Insulation: Batt or blanket insulation shall be installed between framing members and insulation with facings shall be secured to the sides of the framing members to provide a continuous seal and so that the entire weight of the insulation will be carried by the framing members.

SPECIES AND GRADE TABLE

SPECIES	Rulee							
	NEIHA	NIIPHA	UCI.B	WHP	SCHA	SPIB	RIS	NIHA
Northern White Cedar	A	No. 3 Coma						No. 2 Coma
Cypress	A							No. 2 Coma
Douglas Fir - Larch	A	Standard	No. 2	No. 3 Coma				
	B	No. 2						
Hem - Fir	A	Standard	No. 2	No. 3 Coma				
	B	No. 2						
Idaho White Pine	A			No. 3 Coma				
Lodgepole Pine	A			No. 3 Coma				
Eastern White Pine	A	Standard	No. 2	No. 3 Coma				
	B	No. 2						
Northern Pine	A	Standard	No. 2	No. 3 Coma				
	B	No. 2						
Ponderosa Pine	A			No. 3 Coma				
Southern Pine	A			No. 3 Coma				No. 2 Board
	B							No. 1
Sugar Pine	A			No. 3 Coma				
Redwood	A							Const Coma
Englemann Spruce	A			No. 3 Coma				
Sitka Spruce	A	Standard	No. 2					
Douglas Fir South	A			No. 3 Coma				
	B							No. 2
Balsam Fir	A	No. 3 Coma	No. 3 Coma					
Mountain Hemlock	A	Standard	No. 2	No. 3 Coma				
Subalpine Fir	A			No. 3 Coma				
	B							No. 1
Eastern Hemlock - Tamarack	A	No. 3 Coma	No. 3 Coma					
	B	No. 2						
Western Cedar	A	Standard	No. 2	No. 3 Coma				