



SECTION 06060- DIMENSIONAL LUMBER

PART 1 Display hidden notes to specifier by using "Tools"/"Options"/"View"/"Hidden Text".

GENERAL

2.1 SECTION INCLUDES

- A. Dimensional Lumber.

2.2 RELATED SECTIONS

- A. Section 06100 - Rough Carpentry: Lumber Used in General Carpentry.
- B. Section 06110 - Wood Framing: Lumber Used in Structure Framing.
- C. Section 06130 - Heavy Timber Framing: Lumber Used in Structure Framing Using Heavy Timbers.
- D. Section 06139 - Timber Framing: Lumber Used in Structure Framing Using Timbers.
- E. Section 06150 - Wood Decking: Lumber Used in Flooring and Decking.
- F. Section 06170 - Prefabricated Structural Wood: Lumber Used in Manufacturing of Engineered Lumber Materials.
- G. Section 06200 - Finish Carpentry: Lumber Used in Trim and Casing.
- H. Section 06201 - Exterior Finish Carpentry: Lumber Used in Exterior Trim and Casing.
- I. Section 06220 - Millwork: Lumber Used in Standard Patterned Wood Trim

2.3 REFERENCES

- A. ASTM D 4442 - Standard Test Methods for Direct Moisture Content Measurement of Wood and Wood-Base Materials.
- B. WCLIB - West Coast Lumber Inspection Bureau.

2.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
- C. Shop Drawings: Coordinate products listed in this section with Contract Drawings.
- D. Selection Samples: For each finish product specified, two complete sets of material samples

representing manufacturer's full range of available materials and finishes.

- E. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) in length, representing actual product and finish.

2.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: All products listed in this section will be provided by a single manufacturer with at least ten (10) years experience in the preparation of dimensional lumber.
- B. Material Quality: All materials listed in this section will fall within the tolerances and characteristics described.

2.6 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

2.7 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

PART 3 PRODUCTS

3.1 MANUFACTURERS

- A. Acceptable Manufacturer: Forest Grove Lumber Company, which is located at: 2700 Orchard Ave. ; McMinnville, OR 97128; Toll Free Tel: 800-647-9663; Tel: 503-472-3195; Fax: 503-434-5805; Email: info@fglco.com; Web: www.fglco.com
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

3.2 TRU-DRY KILN DRIED DOUGLAS FIR - SELECT STRUCTURAL

- A. Visual Characteristics:
 - 1. Stained Sapwood: Allowed.
 - 2. Firm Heart Stain: 10 percent of width equivalent.
 - 3. Seasoning Checks on Wide Faces: Limited; typically to one face.
 - 4. Seasoning Checks at Ends: Single or opposite each other, are limited to A sum total of 1/4 the thickness.
 - 5. Splits: Approximately 1/2 the width or equivalent of end checks.
 - 6. Pin Holes: Max 1/16 (1.6mm) Diameter, Limited.
 - 7. Pitch Streaks: Allowed.
 - 8. Pitch Pockets: Medium.
 - a. 1/16 inch (1.6mm) In Width and 12 inches (305mm) In Length.
 - b. 1/8 inch (3mm) In Width and 8 inches (203mm) In Length.
 - c. 3/8 inch (9.5mm) In Width and 4 inches (152mm) In Length.
 - 9. Wane: Not Allowed.
- B. Structural Characteristics:

1. Shake On The Faces: Light, 1/32 inch (0.8mm) width.
 2. Shake, Through the Ends: 1/6 the thickness at end.
 3. Grain: Medium - 4 or more annual rings per inch at either end of the piece.
 4. Slope Of Grain - Middle Third: Not to exceed 1 in 15 slope.
 5. Slope Of Grain - Outside Thirds: Not to exceed 1 in 12 slope.
 6. Crook: Minimized.
 7. Twist: Minimized.
 8. Cup: Minimized.
 9. Bow: Minimized.
 10. Free of Heart Center.
 11. Knots: Sound, tight and well spaced.
- C. Manufacturing Characteristics:
1. Moisture Content: Average 19 percent or less, to the core of each piece. Dried in amplifier based Radio Frequency Vacuum Kilns.
 2. Skips: Occasional, Less than 10 percent of the pieces, 1/8 inch (3mm) x 24 inches (610mm) or equivalent.
 3. Surfaced Thickness Tolerance: +/- 1/16 inch (1.6mm).
 4. Surfaced Tolerance: +/- 1/16 inch (1.6mm).
 5. Length Tolerance: At Least.
 6. Torn Grain: Heavy, Not to exceed 1/8 inch (3mm) deep
- D. Surfacing:
1. Mill Rough: Rough, un-sanded surface direct from the mill.
 2. S4S: Sanded on 4 sides.
 3. Accuruff: Re-sawn texture. Rough-sawn texture on surfaced dimensional lumber and timbers. Applied to surfaced lumber, ensuring accurate sizing, consistency and dimension. 1/16 inch is removed from each face and is applied to all textured sides simultaneously to ensure consistent texture.
 4. Circle Sawn: Textured surface attained from a large circular mill saw.
 5. Hand Hewn: Antique texture traditionally created by hand shaping timbers to a rough squared surface with an adze.

3.3 TRU-DRY KILN DRIED DOUGLAS FIR - NO. 1 STRUCTURAL AND BETTER

- A. Visual Characteristics:
1. Stained Sapwood: Allowed.
 2. Firm Heart Stain: Allowed.
 3. Seasoning Checks on Wide Faces: Limited; typically to one face.
 4. Seasoning Checks at Ends: Single or opposite each other, are limited to A sum total of 1/4 the thickness.
 5. Splits: Approximately equal to the width or equivalent of end checks.
 6. Pin Holes: Max 1/16 (1.6mm) Diameter, Limited.
 7. Pitch Streaks: Allowed.
 8. Pitch Pockets: Allowed
 9. Wane: Not Allowed
- B. Structural Characteristics:
1. Shake On The Faces: Light, 1/32 inch (0.8mm) width.
 2. Shake, Through the Ends: 1/6 the thickness at end.
 3. Grain: Medium - 4 or more annual rings per inch at either end of the piece.
 4. Slope Of Grain - Middle Third: Not to exceed 1 in 15 slope.
 5. Slope Of Grain - Outside Thirds: Not to exceed 1 in 12 slope.
 6. Crook: Minimized.
 7. Twist: Minimized.
 8. Cup: Minimized.
 9. Bow: Minimized.

10. Free of Heart Center.
 11. Knots: Sound, tight and well spaced.
- C. Manufacturing Characteristics:
1. Moisture Content: Average 19 percent or less, evenly to the core of each piece. Dried in amplifier based Radio Frequency Vacuum Kilns.
 2. Skips: Occasional, Less than 10 percent of the pieces, 1/8 inch (3mm) x 24 inches (610mm) or equivalent.
 3. Surfaced Thickness Tolerance: +/- 1/16 inch (1.6mm).
 4. Surfaced Tolerance: +/- 1/16 inch (1.6mm).
 5. Length Tolerance: At Least.
 6. Torn Grain: Heavy, Not to exceed 1/8 inch (3mm) deep
- D. Surfacing:
1. Mill Rough: Rough, un-sanded surface direct from the mill.
 2. S4S: Sanded on 4 sides.
 3. Accuruff: Re-sawn texture. Rough-sawn texture on surfaced dimensional lumber and timbers. Applied to surfaced lumber, ensuring accurate sizing, consistency and dimension. 1/16 inch is removed from each face and is applied to all textured sides simultaneously to ensure consistent texture.
 4. Circle Sawn: Textured surface attained from a large circular mill saw.
 5. Hand Hewn: Antique texture traditionally created by hand shaping timbers to a rough squared surface with an adze.
- E. Sizing: As listed in the Lumber Schedules within the Contract Documents.

3.4 MILLING AND PLANING

- A. Corbels: Mill produced decorative support members.
1. Material / Surfacing: As specified in this section.
 2. Size: As shown on Contract Drawings.
 3. Pattern: To be selected by architect from available stock patterns.
 4. Pattern: FGL-____.
- B. Custom Shapes: Custom Patterns to be provided by the Architect and sawn within tolerances set by Forest Grove Lumber.

PART 4 EXECUTION

4.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

4.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

4.3 INSTALLATION

- A. Coordinate installation with provisions of Section _____.

4.4 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION