



SECTION 09 64 29
PREFINISHED WIDE PLANK KNOTTY PINE FLOORING

General notes to the specifier:

This is a template: edit this specification carefully to suit specific project requirements.

Following guidelines established by the construction specifications institute

This specification section organizes information in three parts:

Part 1 – General: describes administrative and procedural requirements;

Part 2 – Products: describes materials, products, and accessories to be used in the project; and

Part 3 – Execution: describes how these products are to be installed.

Referenced section numbers and titles are based on *Masterformat*, 2004 edition.

This section assumes the project manual contains complete Division 1 documents including Sections 01 33 00–Submittal Procedures, 01 62 00–Product Options, 01 25 00–Substitution Procedures, 01 66 00–Product Storage And Handling Requirements, 01 74 23–Final Cleaning, 01 77 00–Closeout Procedures, and 01 78 00–Closeout Submittals. If the project manual is lacking these sections, additional information should be included under the appropriate articles herein.

Editing guide:

/ italicised paragraphs are notes to the specifier and should be deleted from final draft.

[square brackets] denote options requiring selection by the specifier- delete unused options.

_____underlined blanks indicate items that may require supplementary information.

Bold face type is used to highlight optional paragraphs and phrases that may be selected or deleted as required. Reformat bold face type when including these elements



PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Prefinished, [distressed] solid wide plank knotty pine flooring installed by the [nail down method.] [glue down method.] [nail and glue-down method.]
- B. Related sections:

List other specification sections dealing with work directly related to this section and for other types of flooring materials abutting the pine flooring

- 1. **01 35 14 – LEED Credit Summary.**
- 2. **03 30 00 – Cast-in-Place Concrete: Concrete slab substrate.**
- 3. **06 10 00 – Rough Carpentry: Wood subfloor.**
- 4. **06 20 00 – Finish Carpentry: Baseboards and associated trim not otherwise included in this section.**
- 5. _____ - _____.

1.2 SUBMITTALS

- A. Submit under provisions of Section 01 33 00–Submittal Procedures the following items:
 - 1. Product Data.
 - a. Flooring: Include **complete range of 11 available colors or selected custom-matched colors [in distressed finish]**, adhesive used in manufacture of flooring planks and finish data.
 - b. **Accessories.**
 - 2. Shop Drawings: Include direction of flooring, fastening method, flooring patterns and color layout, and 1:1 scale sectional details of **accessories and** transition to other flooring materials.
 - 3. Samples:
 - a. 12 inch (300 mm) long piece of pre-finished wide plank pine flooring material in specified stock color or custom color-matched color.
 - b. Fasteners.
 - c. **One of each specified accessory, minimum 4 inches (100 mm) long.**
 - 4. Quality Assurance/Control Submittals:
 - a. Qualifications: Proof of manufacturer and installer qualifications.
 - b. Test Reports: Reports for specified Physical Property Performance Requirements.
 - c. Manufacturer's Installation Instructions.
- B. Closeout Submittals: Submit under provisions of Section 0178 00–Closeout Submittals the following items:
 - 1. Maintenance Instructions.
 - 2. Letter of Warranty.
- C. LEED Submittals:
 - 1. Credit EQ 4.1: Wood flooring adhesive manufacturer's product data indicating that the adhesive used has a VOC of less than 100 (g/L less water).
 - 2. Credit EQ 4.2: Wood flooring coating data indicating finish used has a VOC of less than 275 g/L.



1.3 QUALITY ASSURANCE

A. Qualifications:

1. Manufacturer Qualifications
 - a. Minimum five years experience in the development, manufacture and distribution of high-performance polyurethane floor coatings and stains for wood flooring.
2. Installer Qualifications:
 - a. Minimum three years experience in hardwood flooring installation.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Reference Section 01 66 00–Product Storage and Handling Requirements.
- B. Deliver DuroDesign Wide plank pine flooring to project site in original packaging not less than 5 days prior to installation start date.

1.5 PROJECT/SITE CONDITIONS

- A. Environmental Requirements: Area to receive pine flooring and pine flooring material itself must be maintained at normal occupancy temperature and humidity levels for minimum 5 days prior to, during and continuously following installation.

1.6 WARRANTY

FOR COMMERCIAL PROJECTS, USE WARRANTY ARTICLES A. AND B. FOR RESIDENTIAL PROJECTS USE WARRANTY ARTICLE C. ONLY.

- A. Structural Warranty: 25 years against buckling or cupping as a result of a manufacturing defect when installed and maintained in accordance with manufacturer's installation instructions.
- B. Finish Warranty: 5 years against wear through to the underlying pine flooring or separation from the flooring when installed and maintained in accordance with manufacturer's installation and maintenance instructions: two coats of HR1000 UV oil finish is applied yearly for high-traffic retail areas, two to three years for low to medium commercial traffic and five to seven years for residential applications.
- C. Color Warranty: no fading or discoloration of the stain over time.

PART 2 - PRODUCTS

2.1 MANUFACTURER

- | | |
|---|--|
| A. DuroDesign Flooring Inc.
4656 Louis B. Mayer, Unit #9,
Laval, QC H7P 6E4
Website: http://www.durodesign.com/ | Toll free: (888) 528-8518
Tel.: (450) 978-3403
Fax: (450) 978-2542
e-mail: info@durodesign.com |
|---|--|

| *Insert name, address and phone numbers of local distributor/dealer below.*

1. Distributor/Dealer:



- B. Wide Plank Knotty Pine Flooring Type:
 - a. **Color: [DuroDesign Color] [in distressed finish] [as shown on Drawings].**
- C. Substitutions: None Permitted.

2.2 MATERIALS

- A. Wide Plank Knotty Pine Flooring:
 - 1. Species: *Pinus strobus*
 - 2. Grade: Knotty Pine, with tight knots and no holes [in distressed finish]
 - 3. Size: [5-1/4 inches (133 mm)] [7-1/4 inches (184 mm)] wide by 3/4 inch (19 mm) thick by 12-86 inches (305-2184 mm) long (average length of 48")
 - 4. Edge: Tongue and groove with beveled edges.
 - 5. Back: Channeled for stress-relief.
 - 6. [Face: Hand-distressed]
 - 7. Factory finish: sealed and knots putty filled with 6 coats HR 1000 UV oil finish for high traffic use and maximum transparency
 - 8. Physical Property Performance Requirements:
 - a. Hardness: ASTM D 1037, Janka Ball: Minimum 420 lbs (1870 N).
 - b. Dimensional Stability: ASTM D 1037: Dimensional change coefficient: 0.0021.
 - c. Density: approx. 420 kg/m³
 - d. Flammability: ASTM E 648: Class I Interior Floor Finish rating per NFPA 101.
 - e. Compressive Strength: 780 psi (5.4 MPa)
 - f. Slip Resistance: ASTM F 1679, English XL test: Average Dry Slip Index: 0.630.
 - g. Moisture Content: Kiln dried to 6-8% maximum moisture.
- B. **Fasteners:**
 - 1. **1-1/2 Inch (38 mm) Thick Subfloor: 2 inch (50 mm) nails.**
 - 2. **3/4 Inch (19 mm) Thick Subfloor: 1-1/2 inch (38 mm) nails.**
 - 3. **1 inch (25 m) Thick Plywood Subfloor Over Concrete: 1-1/4 inch (32 mm) nails.**

2.3 ACCESSORIES

- A. Subfloor filler: Portland cement-based as recommended by flooring manufacturer.

Insert accessories such as baseboards, transition strips, and thresholds here. Coordinate installation of transition strips to other flooring materials and finished floor heights, if applicable, and determine which flooring installer should provide transition materials.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates upon which pine flooring will be installed.
 - 1. Verify that subfloor is structurally sound, clean, dry
 - 2. In wood frame structures, do not begin installation of wide plank pine flooring until the moisture content of wood subfloors is at a maximum of 12% and within 4% of the moisture content of the flooring material.
 - 3. Document test results and mark all test location(s) on As-Built Drawings.
- B. Verify that HVAC system is operating and maintaining occupancy level temperature and humidity conditions.



- C. Report unsatisfactory conditions to Architect and/or General Contractor and correct before proceeding.

3.2 PREPARATION

- A. Acclimatization: Open DuroDesign Wide plank pine flooring boxes and remove packaging a minimum 3 days prior to start of installation. . Consult manufacturer's installation instructions for complete instructions.
- B. Grind and fill subfloor using methods and materials appropriate to the subfloor construction to eliminate humps and depressions exceeding 1/8 (3 mm) inch in 6 feet (1830 mm).
- C. Clean surfaces thoroughly prior to installation.

3.3 INSTALLATION

Under normal installation conditions, the manufacturer's installation instructions are sufficient. Unusual or unique site or design conditions may demand supplementary information in this article.

- A. Wide Plank Pine Flooring: Install in accordance with manufacturer's complete installation instructions by [nailing to substrate][gluing to substrate][nailing and gluing to substrate]. Details below are a summary only.
- B. Lay flooring in the direction(s)/pattern(s) as shown on Drawings.
- C. For a blended appearance select pieces randomly from several boxes.
- D. Allow 3/4 inch (19 mm) space for expansion and movement of pine flooring at walls and permanent obstructions.

Include the following paragraphs if adhesive installation method is used.

- E. Use the "wet lay" or "walk-on-work" installation method as specified by the adhesive manufacturer. Use only adhesive recommended by flooring manufacturer. Adhere pine flooring planks without gaps. Ensure that each floor plank is completely adhered to substrate.
- F. Immediately remove excess adhesive from pre-finished surface of pine flooring.

Include the following paragraphs if nail-down installation method is used:

- G. Lay flooring over wood subfloor parallel with length of room.
- H. Blind nail pine flooring to subfloor with power driver. Space fasteners at 6-10" (152-254 mm) and 2" (51mm) from end of boards. Stagger end joints from row to row by a minimum of 6" (152mm).

Include the following line if 7-1/4" wide planks are being nailed-down:

- I. Apply a bead of polyurethane adhesive every 12" (305 mm) perpendicular to the flooring planks.



J. Accessories: Install using methods appropriate to the accessory and flooring system.

3.4 CLEANING

- A. Reference Section 01 74 23–Cleaning.
- B. Follow manufacturer’s recommended maintenance instructions.

3.5 PROTECTION

- A. Repair or replace defective or damaged work as directed by the Architect. All chipped, scratched or otherwise damaged or defective work will be repaired or replaced. All repairs shall be undetectable. Use manufacturer-supplied touch up stain if required.
- B. Cover and protect completed plank knotty pine flooring from further construction traffic with heavy kraft-paper or other suitable covering. Do not use non-breathable sheet or film that could cause condensation to form. Maintain covering throughout remainder of construction period.

END OF SECTION

This specification was last updated March 2009.
The most recent revision of this document is available at www.durodesign.com