

terra legno
Engineered Wood Flooring

Section 09 64 33.03

Pre-Finished Engineered Wood Flooring

NOTE TO EDITING ARCHITECT:

THIS SECTION IS A PROPRIETARY SPECIFICATION BASED ON PRODUCTS MANUFACTURED BY:

Dyerich Flooring, Inc.
DBA: terra-legno Engineered Hardwood Flooring
35 Dale Avenue
Paterson, NJ 07505
P: 973-357-0600
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The following specifications call out the material and default installation requirements necessary for the floor as recommended by Dyerich Flooring Designs, LLC, DBA terra-legno Engineered Hardwood Flooring. In some cases, local codes, physical requirements or installer recommendation may override these methods and procedures. terra legno's recommendation is to review the specification with an authorized terra legno representative or the terra legno's regional authorized Distributor before incorporating the specification into the project's design. Some options may impact terra legno's warranties, maintenance and floor care procedures, installed and life cycle costs. Therefore written verification of the design is advised.

For the name of the authorized terra legno representative or regional distributor in your area, contact terra legno at 973-357-0600 or e-mail at info@terralegno.com .

Part 1-GENERAL

1.1 SECTION INCLUDES

- A. Engineered Hardwood Flooring for residential or commercial applications.
 - 1. Terra legno Engineered Hardwood Flooring

1.2 RELATED SECTIONS

- A. Related work specified under other sections. (A cross-reference should be incorporated in these sections.)
 - 1. Concrete and Concrete FinishingSection 03300
 - 2. Rough Carpentry: Wood Subfloor..... Section 06100
 - 3. Finish Carpentry: Adjacent Wood Trim..... Section 06200
 - 4. Painting: Clear Finishes, Field Applied.....Section 09900

1.3 SUBMITTALS

- A. Samples for Initial Selection: Manufacture's brochure that show full range of species and sizes available
- B. Sample for Verification: 3 pieces each for each type of engineered flooring, approximately 8" + in length and same thickness and material for the project's specification. Shade variation is inherent with natural products like wood flooring. Samples to show, as much as possible, the normal representative range of color, texture, and grade variations that should be clearly understood
- C. terra legno Installation Instructions: Manufacturer's installation instructions for type (nail/staple, glue-down, floating) of installation being performed at the job-site
- D. terra legno Warranties: Warranty for product specified
- E. terra legno Floor Care and Maintenance

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1.4 QUALITY ASSURANCE

- A. Installer Qualifications: An experienced installer who has completed engineered wood flooring similar in material, design, and extent to that indicated for the project and whose work has resulted in engineered wood flooring installations with a record of successful in-service performance
- B. Engineered-Wood Flooring:
1. International Standards Organization: ISO 9001-2008, and ISO14001 Certified
 2. CARB 2: Engineered wood flooring to be equal or better than CARB 2 guidelines
 3. Lacey Act compliant
 4. FSC Certified
- C. Engineered-Wood Flooring Plywood Core:
1. Plywood: International Standards Organization: ISO 9001-2008 and ISO 14001 Certified
 2. Type: Plywood must be exterior grade Baltic Birch 7 Ply or greater
 3. CARB 2: Plywood Core to be equal or better than CARB 2 guidelines
 4. Formaldehyde Free Adhesives
 5. Finger-joints: Plywood must be finger-jointed where needed, and free of any butt or scarf joints.
- D. Engineered Wood Flooring Three Ply Wood Core flooring
1. Type Middle core of oak or heva wood battens for stability and shape retention.
 2. Backing layer of oak or heva wood.
 3. Tongue & Groove joint profile
- E. Type: Hardwood wear layer will be dry sawn lumber sourced from the best specialty mills in the world.
1. Thickness: Hardwood wear layer will be a minimum of 3mm thick
 2. Additional standard and special order wear layer thickness options available upon request
 3. Moisture test: Moisture test for lumber use in wear layer must be done in accordance with ASTM-4442 guidelines
- F. Fire-Test-Response Characteristics: Provide engineered wood flooring with the following surface-burning characteristics as determined by testing identical products per ASTM E 84 by UL or another testing and inspecting agency acceptable to authorities having jurisdiction:
1. Class C Interior Finish
 2. FLAME-SPREAD INDEX: CLASS C INTERIOR FINISH 76-200 OR LESS
 3. SMOKE-DEVELOPED INDEX: 450 OR LESS
- G. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application of workmanship.
1. Finish areas only that are designated by Architect
 2. Do not proceed with remaining work until workmanship, color and sheen are approved by Architect.
 3. Approved mock-ups may become part of the completed Work if undisturbed at time of substantial completion

1.5 DELIVERY, STORAGE AND HANDLING

- A. Deliver engineered wood flooring material in unopened cartons
- B. Protect engineered wood flooring from exposure to moisture
- C. DO NOT deliver material until after all concrete, masonry, plaster, ceramic tile, and similar wet-work has been completed and allowed to dry thoroughly per specified installation moisture and RH guidelines
- D. Store engineered wood in a dry, warm, well ventilated, weather tight location.
- E. Engineered flooring should be stored in controlled environment per terra legno installation moisture, temperature, and RH guidelines (30% - 60% RH) in which it will be installed for 5-7 days prior to installation

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1.6 PROJECT CONDITIONS

- A. Installation site should have HVAC systems in place and should be a consistent room temperature of 60-80° F (16-27° C) and relative humidity level of 30% - 60% for 14 days prior, during and after installation. For best results a relative humidity of 40% - 45%
- B. The building should be closed in, with all outside doors and windows in place. The wall coverings should be in place and the painting completed except for the final coat on the base molding. For best results delay installation of base molding until flooring installation is complete. All concrete, masonry, framing members, drywall, paint and other wet-work must be thoroughly dry.
1. After post-installation period, maintain relative humidity and ambient temperature within the ranges indicated above
 2. Close spaces to traffic during flooring installation and for time period after installation recommended in writing by flooring and finish manufacturers
- C. Exterior grading should be complete. To direct flow away from the structure grading should offer a minimum drop of 3" to 10'. Do not obstruct the drainage with landscaping materials. All gutters and downspouts should be in place prior to flooring installation
- D. Subfloor requirements:
1. LEVEL/FLAT: Within 3/16" in 10' (5 mm in 3 m) and/or 1/8" in 6' (3mm in 2m).
 2. CLEAN: Free of debris, loose materials or materials that may release with age such as paint and dry wall materials.
 3. DRY: Check and document moisture content of the sub-floor using the appropriate moisture test. Concrete sub-floors must be a minimum of 30 days old before testing begins. Concrete must not exceed 4.5 using a Tramex Moisture Encounter meter. Calcium Chloride test results should not exceed 3# 24hr/1000 ft². Wood sub-floors must not exceed 12% and there must be no more than 4% difference between the terra legno Engineered Hardwood Flooring and the wood sub-floor material. If the sub-floor has excessive moisture apply a suitable moisture retardant that is compatible with the adhesive being used. Contact the adhesive supplier for their recommendation and warranty.

1.7 EXTRA MATERIALS

- A. Furnish extra materials described below, before installation begins, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
- B. Engineered wood flooring: Equal to (*insert amount*) percent of amount installed for each product indicated, but no fewer than (*insert number*) pieces for each type and finish indicated Part 2 - MATERIALS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Dyerich Flooring Designs LLC, DBA terra legno Engineered Hardwood Flooring, which is located at 35 Dale Avenue, Paterson, NJ 07505 Tel: 973-357-0600, Fax: 973-357-1061, e-mail: info@terralegno.com
- B. Substitutions: **NOT PERMITTED**

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2.1 MATERIALS

A. General

1. Species: as specified
 - a. Engineered flooring products are:
 - 9/16" (13mm) total thickness
 - Dry sawn lumber wear layer to be minimum of 1/8" (3mm) thick
 - 5/8" (15.875mm) total thickness
 - Dry sawn lumber wear layer to be minimum of 5/32" (4mm) thick
 - 3/4" (19.04mm) total thickness
 - Dry sawn lumber wear layer to be minimum of 1/4" (6mm) thick
 - b. Flooring will be T&G and End Match
 - c. Depending on Species, engineered flooring available in 3" to 12" widths
 - d. Minimum Average Board Length equal or better than 30" (1 -5' or 90% Fixed 6' Board Lengths or Better)
 - e. Additional board length options available on request
 - f. Four Sided Bevel: Options available on request
 - g. Finish:
 1. terra legno UV Cured Oil with UV Cured Top Coat
 2. terra legno 9 Coat UV Cured Aluminum Oxide
 3. terra legno Additional Finish Options Available Upon Request
 4. Finish and color selected by Architect from terra legno full range of products

Specifier Note: Refer to manufacturer's web site for current Original Collection product list. <http://www.terraleigno.com>

1. Design, Species, and Finish [terra legno-#]: <insert product description from web site>.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas and conditions, with installer present, for compliance with requirements for maximum moisture content, installation tolerances and other conditions affecting performance of installation work
- B. If substrate preparation is the responsibility of another contractor, notify the Architect of an unsatisfactory preparation of the floor prior to proceeding

3.2 PREPARATION

A. Subfloor preparation:

1. Prepare substrates according to manufacturer's written recommendations to ensure adhesion of wood flooring products
2. Concrete Substrates: Prepare according to ASTM F 710
3. Verify that substrates are dry and free of curing compounds, sealers, and hardeners
4. CLEAN: Remove substrate coatings and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, using mechanical methods recommended by manufacturer. Do not use solvents
5. LEVEL/FLAT: Within 3/16" in 10' (5 mm in 3 m) and/or 1/8" in 6' (3mm in 2m)
6. DRY: Check and Document moisture content of the sub-floor using the appropriate moisture test. Concrete sub-floors must be a minimum of 30 days old before testing begins. Concrete must not exceed 4.5 using a Tramex Moisture Encounter meter. Calcium Chloride test results should not exceed 3# 24hr/1000 ft². Wood sub-floors must not exceed 12% and there must be no more than 4% difference between the terra legno Engineered Hardwood Flooring and the wood sub-floor material. If the sub-floor has excessive moisture, notify the architect, and all responsible parties the installation will require an application of a suitable moisture retardant that is compatible with the adhesive being used. Contact the adhesive supplier for their recommendation and warranty
7. Use trowelable leveling and patching cementous based compound to fill cracks, holes, and depressions in substrates
8. Do not open wood floor packaging until ready for installation

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9. Sweep and vacuum clean substrates to be covered by wood flooring products immediately before installation. After cleaning, examine substrates for moisture, alkaline salts, carbonation, and dust. Proceed with installation only after unsatisfactory conditions have been corrected

3.3 INSTALLATION

A. Installation

1. General: Install wood flooring in accordance with manufacturer's written instructions for type of installation (nail/staple, glue down or float) guidelines
2. Pattern: Lay flooring in patterns indicated on drawings or, if not indicated, as directed by the Architect
3. Expansion Space: Plan the layout for the best visual appearance of the finished floor. Measurements must be made to allow for the width of the flooring plus 1/2" or greater expansion space as required by manufacturer's installation specifications, and must allow for the width of the tongue
4. Use appropriate underlayment for the job application per manufacturer's specifications
5. Install base at floor perimeter to cover expansion space in accordance with manufacturer's instructions

3.4 ACCESSORY MATERIALS

A. Wood Flooring Adhesive: Mastic recommended by flooring and adhesive manufacturers for application indicated

1. Equal to or Better Manufacturer's Premium Urethane Adhesive
2. Wood Trim: In same species and grade as wood flooring, unless otherwise indicated
3. Wood Base: Manufacturer's standard
4. Quarter Round Molding: Manufacturer's standard
5. T- Molding: Manufacturer's standard
6. Threshold: Tapered on each side and routed at bottom of one side to accommodate wood flooring
7. Reducer Strip: Manufacturer's standard
8. Square Nose Reducer Strip: Manufacturer's standard
9. Stair Nose: Manufacturer's standard
10. Trim Fasteners: As recommended by manufacturer

3.5 PROTECTION

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

3.6 MAINTENANCE

- A. For best results and warranty guidelines apply per specific maintenance and floor care instructions provided by the manufacturer of the floor finish used on this project.
- B. Improper maintenance and floor care may result in product failure, and is not a warrantable claim per terra legno commercial and residential guide lines

END OF SECTION

