



HACIENDA LA PUENTE UNIFIED SCHOOL DISTRICT PURCHASING DEPARTMENT

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*Joel Duarte,
Director Purchasing & Warehouse*

BID NO. 2024-25.17 DIBBLE ADULT SCHOOL ADMINISTRATION BUILDING RENOVATION

June 18, 2025

Addendum No.04

The following changes, additions, deletions, attachments, or corrections shall become a part of the Contract Documents for the project named above and all other conditions shall remain the same. The bidders shall be responsible for transmitting this information to all affected subcontractors and suppliers prior to the closing of bids. Acknowledge receipt of this Addendum in spaces provided on the Bid Form. Failure to acknowledge may subject Bidder to disqualification.

ATTACHMENTS MADE APART OF THIS BID ADDENDUM

- Responses to Prebid RFIs
- tBP/ARCHITECTURE ADDENDUM NO.4 (includes changes to specifications and drawings)

END OF ADDENDUM NO.04

Date: July 3, 2023

RESPONSES TO PRE-BID RFI'S

**DIBBLE ADULT SCHOOL
ADMINISTRATION BUILDING RENOVATION
HACIENDA LA PUENTE UNIFIED SCHOOL DISTRICT**

tBP Proj. No. 21206

tBP/ARCHITECTURE
4611 Teller Avenue
Newport Beach, CA 92660
949-673-0300

TO: PROSPECTIVE BIDDERS

RESPONSES TO PRE-BID RFI'S

1. Reference Bid Documents

Can the district please provide an engineering estimate?

Response – The engineering estimate has been previously provided in Addendum #3.

2. Reference Bid Drawings

I have a question on the Dibble Adult School flooring at the stage in the 1st floor.

The Stage A-1.1, detail 13,18,19/A8.1 call for Hardwood flooring.

Elevation view 1, A-1 on A9.1 calls for LM-1.

Hardwood flooring and LM-1 (Wilsonart plastic laminate generally not used for flooring or stairs) are two different types of material. Please clarify the material required and that the flooring contractor will carry this in their bid.

Response – The call out shown on A9.1 for the Hardwood flooring has been revised to read “HW-1” and a line item for Hardwood Flooring has been added to the Color Schedule on Sheet 9.01. A specification section 09 64 29 is added in this Addendum for this Wood Strip and Plank Flooring. A product specification package for the Basis of Design for this flooring is also included with this Addendum.

3. Reference Bid Documents – Bid Alternates

Please confirm that the Alternate #1 is the base bid plus the canopy work and Alternate #2 is the base bid plus the ramp #1 and ramp #2 work, and Alternate #2 shall not include the work from Alternate #1 as well.

Response – The amount to be provided for Bid Alternate #1 is the cost for the Canopy work ONLY and the amount to be provided for Bid Alternate #2 is the cost for the Ramp #1 and #2 ONLY. The Base Bid shall be kept separate with each Alternate being selected to be included in the final contract scope at the discretion of the District.

4. Reference Bid Drawings

On Page 9.01 "Color Schedule" the table shows the linear baffle assembly, LBA-1 and LBA-2 are by USG Ceiling Plus Barz, however on the electrical plan E.01 Table the linear baffle system is by a different manufacturer (Axis Spatial Soft Zone) please clarify.

Response – The Reflected Ceiling Plans A2.1 and A2.2 have been revised to add a legend information and keynotes to distinguish where these two systems are to be used. The Finish Schedule and Color Schedule on Sheet 9.01 has also been revised to clarify where these systems are to be used. The USG Ceiling Plus Barz system is an "Open Plenum Modular Baffle System" and the "Axis Spatial Soft Zone" is an Acoustical Baffle Lighting System. These systems are used in different spaces per the revised Reflected Ceiling plans.

5. Reference Bid Drawings

On page A4.2 detail #1 the aluminum composite panel is AL-2, however AL-2 is not specified in the color schedule, please clarify AL-2.

Response – The color call-out for the aluminum composite panel on Page A4.2 has been revised to read "ACP-1" as shown in the Color Schedule on 9.01.

Date: July 03, 2025

ADDENDUM 04

Project Bidding Documents for:

**DIBBLE ADULT SCHOOL
ADMINISTRATION BUILDING REMODEL
HACIENDA LA PUENTE UNIFIED SCHOOL DISTRICT**

tBP Project No. 21206.00

tBP/ARCHITECTURE
4611 Teller Avenue
Newport Beach, CA 92660
949-673-0300

TO: PROSPECTIVE BIDDERS

This Addendum forms a part of the Contract Documents and modifies the original Bidding Drawings and Specifications dated February 28, 2025. Acknowledge receipt of this Addendum in space provided on the Bid Form. Failure to acknowledge may subject Bidder to disqualification.

CHANGES TO SPECIFICATIONS

1. TABLE OF CONTENTS
REVISE: Add the new section 09 64 29 Wood Strip and Plank Flooring to the Table of Contents.
2. New Section 09 64 29
ADD: New Section 09 64 29 Wood Strip and Plank Flooring.

CHANGES TO DRAWINGS

3. SHEET T-2 INDEX SHEET
REVISE: Sheet T-2 to clarify the Scope of Work description and Inspector of Record requirement as well as miscellaneous typographic errors.
4. SHEET T-3 CODE ANALYSIS PLAN
REVISE: Sheet T-3 to correct the Actual Building Area to read "6,477 S.F."
5. SHEET A2.1 REFLECTED CEILING PLAN - NORTH
REVISE: Sheet A2.1 to clarify Legend for "Linear Acoustic Baffle Lighting".

DIBBLE ADULT SCHOOL
ADMINISTRATION BUILDING RENOVATION
HACIENDA LA PUENTE UNIFIED SCHOOL DISTRICT

ADDENDUM 04

6. SHEET A2.2 REFLECTED CEILING PLAN - SOUTH
REVISE: Sheet A2.2 to:
 - a. Clarify Legend for “Linear Acoustic Baffle Lighting” and add symbol for “Open Plenum Wood Baffle System”.
 - b. Add Keynote 25 for Open Plenum Baffle System.
 - c. Add Keynote 25 callouts to the plan where appropriate.
7. SHEET A4.2 ENLARGED EXTERIOR ELEVATIONS
REVISE: Sheet A4.2 to show color call out for Aluminum Composite Panels to read “ACP-1”.
8. SHEET A9.1 INTERIOR ELEVATIONS
REVISE: Sheet A9.1 to show color call out for Hardwood and Wood Stair to read “HW-1”.
9. SHEET 2.05 SITE DETAILS
REVISE: Sheet 2.05 to clarify mounting of the New Drinking Fountain to an existing solid brick masonry wall, specifically Details 7, 8, 14, and 17.
10. SHEET 3.01 EXTERIOR WALL DETAILS
REVISE: Sheet 3.01 to Add Detail 12 Exterior Jamb at Separation Joint, and to show detail references on Detail 17.
11. SHEET 9.01 FINISH SCHEDULE
REVISE: Sheet 9.01 to:
 - a. Revise Finish Schedule for Room A1.1 Stage for the Flooring material called for.
 - b. Revise the Color Schedule to clarify separate material designations for “open Plenum Baffle System versus Linear Metal Ceiling System.
 - c. Add a line item to provide information on Hardwood Flooring per Specification 09 64 29.
12. SHEET M0-1.0 MECH DEMO PLAN - OVERALL
REVISE: Sheet M0-1.0 for clarity in (E) Heater Room.
13. SHEET M1.0 MECH FLR PLAN - OVERALL
REVISE: Sheet M1.0 for clarity in (E) Heater Room.
14. SHEET M1.1 MECH FLR PLAN - PIPING
REVISE: Sheet M1.1 to resolve possible conflict of piping with ductwork.
15. SHEET P1.1 PLUM DEMO FLR PLAN - NORTH
REVISE: Sheet P1.1 to show an existing HB to be removed and capped in the Utility Room.

16. SHEET E1.0 SITE ELECTRICAL PLAN

REVISE: Sheet E1.0 to show a revised location for the new electric panel PMP1 in the Utility Room.

ATTACHMENTS

The following attachments are a part of Addendum 04:

1. **Bid and Contract Documents (page)**
2. **Responses to Pre-Bid RFIs (3 pages)**
3. **Full Size Documents (30"x42") Drawings: (Total of 15)**
 - T-2 INDEX SHEET
 - T-3 CODE ANALYSIS
 - A2.1 REFLECTED CEILING PLAN – NORTH
 - A2.2 REFLECTED CEILING PLAN – SOUTH
 - A4.2 ENLARGED EXTERIOR ELEVATIONS
 - A9.1 INTERIOR ELEVATION
 - 2.05 SITE DETAILS
 - 3.01 EXTERIOR WALL DETAILS
 - 9.01 FINISH SCHEDULE
 - S1.3 TYPICAL DETAILS
 - M0-1.0 MECH DEMO FLR PLAN – OVERALL
 - M1.0 MECH FLR PLAN – OVERALL
 - M1.1 MECH FLR PLAN – PIPING
 - P1.1 PLUM DEMO FLR PLAN – NORTH
 - E-1.0 SITE ELECTRICAL PLAN

SECTION 00 01 10 TABLE OF CONTENTS

PROCUREMENT AND CONTRACTING REQUIREMENTS

DIVISION 00 -- PROCUREMENT AND CONTRACTING REQUIREMENTS

- 00 01 01 - Project Title Page
- 00 01 02 - Project Information
- 00 01 07 - Seals Page
- 00 01 10 - Table of Contents
- 00 40 25 - Request for Information (PreBid)
- 00 43 25 - Substitution Request Form - During Procurement
- 00 63 25 - Substitution Request Form - During Construction

Addendum 4

SPECIFICATIONS

DIVISION 01 -- GENERAL REQUIREMENTS

- 01 10 00 - Summary
- 01 20 00 - Price and Payment Procedures
- 01 21 00 - Allowances
- 01 25 00 - Substitution Procedures
- 01 30 00 - Administrative Requirements
 - 01 30 00.01 - Request for Interpretation
- 01 32 16 - Construction Progress Schedule
- 01 35 50 - Requests for Electronic Files
- 01 35 53 - Security Procedures
- 01 40 00 - Quality Requirements
- 01 41 00 - Regulatory Requirements
- 01 42 19 - Reference Standards
- 01 45 33 - Code-Required Special Inspections
- 01 50 00 - Temporary Facilities and Controls
- 01 57 19 - Temporary Environmental Controls
- 01 57 23 - Temporary Storm Water Pollution Control
- 01 60 00 - Product Requirements
- 01 61 16 - Volatile Organic Compound (VOC) Content Restrictions
 - 01 61 16.01 - Accessory Material VOC Content Certification Form
- 01 70 00 - Execution and Closeout Requirements

01 71 23 - Field Engineering
01 74 19 - Construction Waste Management and Disposal
01 76 10 - Temporary Protective Coverings
01 78 00 - Closeout Submittals
 01 78 00.01 - Warranty Form Letter
01 78 39 - Project Record Documents
01 79 00 - Demonstration and Training

DIVISION 02 -- EXISTING CONDITIONS

02 41 00 - Demolition
02 41 13 - Site Demolition

DIVISION 03 -- CONCRETE

03 10 00 - Concrete Forming and Accessories
03 20 00 - Concrete Reinforcing
03 30 00 - Cast-in-Place Concrete

DIVISION 05 -- METALS

05 12 00 - Structural Steel Framing
05 31 00 - Steel Decking
05 50 00 - Metal Fabrications
05 52 13 - Pipe and Tube Railings
05 59 20 - Tube Steel Enclosure Gates

DIVISION 06 -- WOOD, PLASTICS, AND COMPOSITES

06 05 73 - Wood Treatment
06 10 00 - Rough Carpentry
06 10 53 - Miscellaneous Rough Carpentry
06 20 00 - Finish Carpentry
06 41 00 - Architectural Wood Casework

DIVISION 07 -- THERMAL AND MOISTURE PROTECTION

07 01 50.20 - Roofing, Restoration, Patch, and Repair
07 21 00 - Thermal Insulation
07 42 13.23 - Metal Composite Material Wall Panels
07 62 00 - Sheet Metal Flashing and Trim
07 92 00 - Joint Sealants

DIVISION 08 -- OPENINGS

08 06 71 - Door Hardware Schedule

- 08 11 13 - Hollow Metal Doors and Frames
- 08 14 16 - Flush Wood Doors
- 08 31 00 - Access Doors and Panels
- 08 43 13 - Aluminum-Framed Storefronts
- 08 71 00 - Door Hardware
- 08 80 00 - Glazing

DIVISION 09 -- FINISHES

- 09 05 61 - Common Work Results for Flooring Preparation
- 09 21 16 - Gypsum Board Assemblies
- 09 30 00 - Tiling
- 09 51 00 - Acoustical Ceilings
- 09 51 53 - Direct-Applied Acoustical Ceilings
- 09 54 23 - Linear Metal Ceilings
- 09 64 29 - Wood Strip and Plank Flooring (New Section)**
- 09 65 00 - Resilient Flooring
- 09 68 13 - Tile Carpeting
- 09 72 00 - Wall Coverings
- 09 84 30 - Sound-Absorbing Wall and Ceiling Units
- 09 91 13 - Exterior Painting
- 09 91 23 - Interior Painting
- 09 96 00 - High-Performance Coatings

Addendum 4

DIVISION 10 -- SPECIALTIES

- 10 11 00 - Visual Display Units
- 10 14 19 - Dimensional Letter Signage
- 10 14 23 - Panel Signage
- 10 14 43 - Photoluminescent Signage
- 10 26 00 - Wall and Door Protection

DIVISION 11 -- EQUIPMENT

- 11 52 16 - Audio-Video Equipment

DIVISION 12 -- FURNISHINGS

- 12 24 00 - Window Shades
- 12 36 00 - Countertops

DIVISION 22 -- PLUMBING

- 22 05 18 - Escutcheons for Plumbing Piping

22 05 23 - General-Duty Valves for Plumbing Piping
22 05 29 - Hangers and Supports for Plumbing Piping and Equipment
22 05 53 - Identification for Plumbing Piping and Equipment
22 07 19 - Plumbing Piping Insulation
22 11 16 - Domestic Water Piping
22 11 19 - Domestic Water Piping Specialties
22 13 16 - Sanitary Waste and Vent Piping
22 14 23 - Storm Drainage Piping Specialties
22 16 16 - Condensate Drain Piping
22 33 00 - Electric Domestic Water Heaters
22 42 13.13 - Commercial Water Closets
22 42 16.13 - Commercial Lavatories
22 42 16.16 - Commercial Sinks
22 47 13 - Drinking Fountains

DIVISION 23 -- HEATING, VENTILATING, AND AIR-CONDITIONING (HVAC)

23 05 00 - Common Work Results for HVAC
23 05 19 - Meters and Gauges for HVAC Piping
23 05 29 - Hangers and Supports for HVAC Piping and Equipment
23 05 48 - Vibration and Seismic Controls for HVAC
23 05 53 - Identification for HVAC Piping and Equipment
23 05 93 - Testing, Adjusting, and Balancing for HVAC
23 07 13 - Duct Insulation
23 07 19 - HVAC Piping Insulation
23 23 00 - Refrigerant Piping
23 31 13 - Metal Ducts
23 33 00 - Air Duct Accessories
23 34 23 - HVAC Power Ventilators
23 37 13 - Air Diffusers
23 81 26 - Split-System Air-Conditioners
23 81 29 - Variable Refrigerant Flow HVAC Systems

DIVISION 26 -- ELECTRICAL

26 00 00 - General Electrical Requirements

DIVISION 27 -- COMMUNICATIONS

27 00 00 - Integrated Communication System

DIVISION 31 -- EARTHWORK

31 10 00 - Site Clearing

31 22 00 - Grading

DIVISION 32 -- EXTERIOR IMPROVEMENTS

32 12 16 - Asphalt Paving

32 12 36 - Seal Coats

32 13 13 - Site Concrete

32 17 13 - Pavement Markings

END OF SECTION

SECTION 09 64 29
WOOD STRIP AND PLANK FLOORING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Wood plank flooring, nailed.
- B. Sleepers.
- C. Sheet vapor retarder.

1.02 RELATED REQUIREMENTS

- A. Section 01 61 16 - Volatile Organic Compound (VOC) Content Restrictions: Volatile Organic Compound (VOC) Content Restrictions.

1.03 REFERENCE STANDARDS

- A. ADA Standards - 2010 ADA Standards for Accessible Design.
- B. ANSI A326.3 - American National Standard Test Method for Measuring Dynamic Coefficient of Friction of Hard Surface Flooring Materials.
- C. ANSI/NFSI B101.3 - Test Method for Measuring the Wet DCOF of Hard Surface Walkways.
- D. ASTM E662 - Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials.
- E. ASTM F609 - Standard Test Method for Using a Horizontal Pull Slipmeter (HPS).
- F. CBC Ch. 11B - California Building Code-Chapter 11B.
- G. NWFA (IG) - Installation Guidelines.
- H. NWFA/NOFMA - International Standards for Unfinished Wood Flooring.

1.04 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data for flooring and floor finish materials.
- C. Shop Drawings: Indicate floor joint pattern and termination details.
- D. Samples: Submit two samples 2-1/4 by 12 inch in size illustrating floor finish, color, and sheen.
- E. Maintenance Data: Include maintenance procedures and recommended maintenance materials.
- F. Maintenance Materials: Furnish the following for District's use in maintenance of project.
 - 1. See Section 01 60 00 - Product Requirements, for additional provisions.
 - 2. Extra Flooring Material: 10 square yards matching installed flooring.

1.05 QUALITY ASSURANCE

- A. Perform work of this section in accordance with NWFA/NOFMA.

1. Maintain one copy of each document on site.
- B. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum three years documented experience.
- C. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years of documented experience.
 1. National Wood Flooring Association (NWFA) Certified Professional Installer (CI).
 2. National Wood Flooring Association (NWFA) Certified Professional Sand and Finisher (CSF).

1.06 FIELD CONDITIONS

- A. Do not install wood flooring until wet construction work is complete and ambient air at installation space has moisture content stabilized at maximum moisture content of 40 percent.
- B. Provide heat, light, and ventilation prior to installation.
- C. Store materials in area of installation for minimum period of 72 hours prior to installation.
- D. Maintain minimum room temperature of 65 degrees F for a period of two days prior to delivery of materials to installation space, during installation, and after installation.

PART 2 PRODUCTS

2.01 REGULATORY REQUIREMENTS

- A. All products used shall meet VOC requirements listed in Section 01 61 16 - Volatile Organic Compound (VOC) Content Restrictions.
- B. All products used for flooring installation shall comply with flammability and smoke classifications for various locations of installation. Comply with applicable requirements of California Building Code (CBC) Chapter 8.
 1. Smoke Density: ASTM E662 Rating to be less than 450 Dm (Optical Density) in flaming mode. (CBC 804.4.1).
- C. Requirements for persons with disabilities: Provide flooring meeting slip-resistant requirements of California Code of Regulations (CCR), Title 24, Part 2, CBC Ch. 11B and ADA Standards, latest amendment.
 1. Flooring demonstrating a coefficient meeting the intent of slip resistance; CBC Ch. 11B-302 Floor or Ground Surfaces, CBC Ch. 11B-403 Walking Surfaces, and ADA Standards.
 2. Flooring surface shall be stable, firm, and slip resistant. CBC Ch. 11B-302.1 General.
 3. Flooring surface demonstrating a dynamic coefficient of friction of at least 0.42 wet per DCOF AcuTest ANSI A326.3, or ANSI/NFSI B101.3 (using a BOT-3000 testing unit) will be accepted as meeting the intent of slip resistance; CBC Ch. 11B-302 Floor or Ground Surfaces and ADA Standards.
 - a. Ramp surface: Provide DCOF value of 0.46 wet.

2.02 MANUFACTURERS

- A. Hardwood Strip and Plank Flooring:

Hacienda La Puente Unified School District

Administration Building Renovation

Dibble Adult School

tBP/Architecture Project No. 21206.00

Addendum 4

Wood Strip and Plank Flooring

09 64 29 - 2

1. Basis of Design Product: Junckers 2-strip solid hardwood floors, factory finished as manufactured by Junckers A/S, www.junckers.com, or equal.
2. Aacer Flooring: www.aacerflooring.com/#sle.
3. Armstrong World Industries, Inc: www.armstrong.com/#sle.
4. Centennial Woods LLC; Reclaimed Wood Flooring: www.centennialwoods.com/#sle.
5. Somerset Hardwood Flooring: www.somersetfloors.com/#sle.
6. Substitutions: See Section 01 60 00 - Product Requirements

2.03 MATERIALS

- A. Wood Plank Flooring:
 1. Species: Northern hard maple.
 2. Grade: Clear.
 3. Cut: Edge grain.
 4. Moisture Content: 7 to 9 percent.
 5. Actual Thickness: 27/32 inch (22 mm).
 6. Actual Width: 5 inches.
 7. Edge: Tongue and Groove.
 8. End: Square.
 9. Length: Random, minimum of 9 inches.
 10. Treatment: Acrylic impregnated.
 11. Factory Finish: No stain.
- B. Flooring Nails: Type recommended by flooring manufacturer.
- C. Sleepers and Shims: Softwood lumber, pressure treated for moisture protection, 2 by 4 inch size.
- D. Vapor Retarder: Black polyethylene sheet, 8 mil thick; 2 inch wide tape for joint sealing.

2.04 ACCESSORIES

- A. Wood Base: Same species as flooring; profile as indicated.
- B. Wood Plugs: Round shape, 3/4 inch diameter by 1/8 inch thick, of same species as flooring.
- C. Transition Strip: Same species and finish as flooring material; profiles indicated.
- D. Floor Finish: Polyurethane, to achieve high gloss surface; type recommended by flooring manufacturer.

2.05 SOURCE QUALITY CONTROL

- A. Inspect and stamp species and grade on underside of each piece of wood flooring at factory.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify existing conditions before starting this work.
- B. Verify that concrete subfloor surface is smooth and flat to plus or minus 1/4 inch in 10 feet.
- C. Verify wood subfloor is properly secured, smooth and flat to plus or minus 1/4 inch in 10 feet.
- D. Verify that required floor-mounted utilities are in correct location.

3.02 PREPARATION

- A. Sleepers and Shims:
 - 1. Place sleepers over subfloor; space sleepers at 12 inches on center.
 - 2. Shim underside of sleepers to achieve level line of plus or minus 1/4 inch in 10 feet.
 - 3. Anchor sleepers to wood substrate with cement-coated nails; place nails at 16 inches on center.
- B. Prepare substrate to receive wood flooring in accordance with manufacturer's and NWFA instructions.
- C. Broom clean substrate.

3.03 INSTALLATION

- A. Sheathing Paper: Place over wood subfloor; lap edges and ends 2 inches, staple in place.
- B. Underlayments: Install in accordance with underlayment manufacturer's instructions.
- C. Wood Flooring:
 - 1. Install in accordance with manufacturer's and NWFA instructions; predrill and blind nail to subfloor.
 - 2. Lay flooring parallel to length of room areas. Verify alignment as work progresses.
 - 3. Arrange flooring with end matched grain set flush and tight.
 - 4. Terminate flooring at centerline of door openings where adjacent floor finish is dissimilar; provide divider strips and transition strips in accordance with flooring manufacturer's recommendations and as indicated.
 - 5. Install edge strips at unprotected or exposed edges, and where flooring terminates.
 - 6. Secure edge strips before installation of flooring with stainless steel screws.
 - 7. Install flooring tight to floor access covers.
 - 8. Provide 3/4 inch expansion space at fixed walls and other interruptions.
- D. Install base at floor perimeter to cover expansion space in accordance with manufacturer's instructions. Miter inside and outside corners.
- E. Finishing:
 - 1. Mask off adjacent surfaces before beginning sanding.
 - 2. Sand flooring to smooth even finish with no evidence of sander marks. Take precautions to contain dust. Remove dust by vacuum.

3. Apply finish in accordance with floor finish manufacturer's instructions.
4. Apply first coat, allow to dry, then buff lightly with steel wool to remove irregularities. Vacuum clean and wipe with damp cloth before applying succeeding coat.
5. Lightly buff between coats with steel wool and vacuum clean before applying succeeding coat.
6. Apply last coat of finish.

3.04 CLEANING

- A. See Section 01 70 00 - Execution and Closeout Requirements for additional requirements.
- B. Clean and polish floor surfaces in accordance with floor finish manufacturer's instructions.

3.05 PROTECTION

- A. Prohibit traffic on floor finish for 48 hours after installation.
- B. Place protective coverings over finished floors; do not remove coverings until Date of Substantial Completion.

END OF SECTION

2-STRIP SOLID HARDWOOD FLOORS

PRODUCT INFORMATION

PRODUCT SPECIFICATION

Junckers 2-strip solid hardwood floors are factory finished and ready to install in accordance to Junckers Laying Instructions. Each floorboard is assembled from two rows of staves by a glued double dovetail construction. Each floorboard is tongued and grooved on all four sides.

PRODUCT DATA

Nominal board dimensions:

Thickness x width

14 mm x 129 mm

22 mm x 129 mm

Length, Commercial/Residential floors:

14 mm: 1830/900 mm (± 1.0 mm)

22 mm: 3700/1830/900 mm (± 1.0 mm)

Length, Sports floors:

22 mm: 3700 mm (± 1.0 mm)

Stave lengths: 623.5 and 467.0 mm.

Tolerances, thickness and width:

Thickness 14 mm: 13.8 mm (± 0.2 mm)

Thickness 22 mm: 21.8 mm (± 0.2 mm)

Width: 129.0 mm (± 0.2 mm)

Drying method:

Beech, all variants: Press dried.

Maple, Oak and Ash, all variants: Kiln dried.

Average moisture content, MC:

All variants except Black Oak: 8 % (± 2 %).

Black Oak: 9 % (± 2 %).

Other tolerances:

Landing Deviation: 0.2 mm (locally, up to 0.3 mm).

Board ends: Right angled ± 0.3 mm.

PRODUCT RANGE, COMMERCIAL / RESIDENTIAL

Thickness / woodspecies	Grade	Surface	Product variants
14 / 22 mm beech 14 / 22 mm beech SylvaKet 14 / 22 mm oak 22 mm ash	Classic Harmony Variation	Ultra matt lacquered Silk matt lacquered Clear oil Untreated	Colours & texture ¹⁾ Ships decking ²⁾ Twin herringbone ³⁾
14 / 22 mm beech SylvaRed	Classic Harmony Variation	Ultra matt lacquered Silk matt lacquered	Ships decking ²⁾ Twin herringbone ³⁾
14 / 22 mm black oak	Harmony Variation	Ultra matt lacquered Clear oil Untreated	Texture ¹⁾ Ships decking ²⁾ Twin herringbone ³⁾
22 mm maple	Classic Variation	Ultra matt lacquered Silk matt lacquered	Ships decking ²⁾

1) See possibilities in the Product Selector at the web site.

2) See section "Ships decking".

3) See section "Twin herringbone".

SHIPSDECKING

Strip made of foamed PVC with closed cells to absorb natural movements in the hardwood floor, **see fig. 1**.

The strip measures 3x8 mm for 22 mm floors and 3x4 for 14 mm floors and installed it provides a 2 mm wide joint, which varies over the year according to changes in the relative humidity. We do not recommend shipsdecking for Glue Down System.

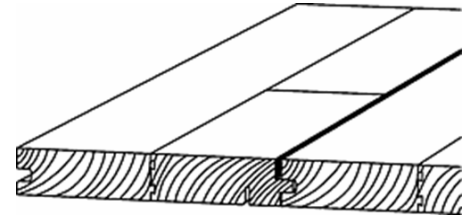


Fig. 1

TWIN HERRINGBONE

Junkers' 14 and 22 mm 2-strip floors are also available as patterned flooring. These floorboards are cut to a length of 516.6 mm (+/- 1.0 mm) and are delivered in a right- and left-handed version. This enables installation in different patterns, e.g. herringbone. Each floorboard consists of two rows of staves. One row with a full length stave and one row with two half staves, **see Fig. 2**.

The Twin Herringbone flooring is delivered surface treated from the factory.

Product range (wood species and surface treatment): See options in the Product Selector at the web site.

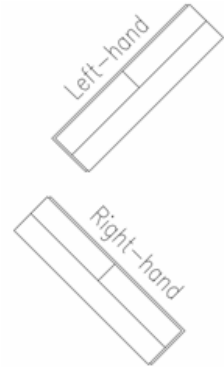


Fig. 2

PRODUCT RANGE, SPORTS FLOORS

Thickness: 22 mm	Grade	Surface
Beech SylvaSport, Beech SylvaKet, Ash	Champion, Premium, Club	Ultra matt or silk matt lacquered
Maple	Champion, Club	Ultra matt or silk matt lacquered
Beech and Maple Sylva Squash	Champion	Silke matt lacquered or untreated

TECHNICAL PROPERTIES

Resistance to Indentation (indicative values):

Oak, ash and maple (all variants): Approx. 3.4 Hardness Brinell

Beech (all variants): Approx 3.7 Hardness Brinell

Slip Resistance (indicative values):

Factory lacquered 0.4 / 85 according to EN 14904

Factory oiled: 0.4

Fire Classification, EN 13501-1:

Surface treated: C_{fl} – S₁

Untreated surface: D_{fl} – S₁
Thermal Conduction: Approx. 0.17 W/mK

Heat Resistance:

14 mm: Ca. 0.08 m² K/W

22 mm: Ca. 0.13 m² K/W

Substances on the candidate list (ECHA)

Junckers wooden floors do not contain SVHC substances (Substances of Very High Concern) listed on the candidate list amounting to more than 0.1 %. The candidate list registers particularly problematic substances in relation to human health and the environment. (<http://echa.europa.eu/candidate-list-table>).

Electrostatic Charging (kV), Beech:

Factory lacquered:

25 % RF = 3.5

50 % RF = 2.0

65 % RF = 1.0

Factory oiled:

25 % RF = 1.0

Oiled Beech is suitable for use in rooms with computers. (DIN 54345/1-prEN 1815)

Light reflection value ((LRV) BS 8493:200+A1:2010		
	Ultra matt	Silk matt
Maple	52	-
Ash	-	49
Ash Nordic	52	-
Beech	44	43
Oak	27	26
Oak Nordic	30	-
Black Oak	7	-

SURFACE TREATMENT

LACQUERED

Beech, Beech SylvaSport, Oak, Ash & Maple:

Priming: Several coats of UV-light curing primer.

Top finish: Two-component polyurethane lacquer, silk/ultra matt.

Total film thickness: Min. 40 µ.

Beech SylvaKet and SylvaRed:

Pre-treatment: Coloured throughout with a NH₃-treatment to achieve a light brown colour.

Before lacquering Beech SylvaRed is also toned with a reddish stain. If Beech SylvaRed is sanded to bare wood, it will appear like Beech SylvaKet.

Priming: Several coats of UV-light curing primer.

Top finish: Two-component polyurethane lacquer, silk- or ultra matt.

Total film thickness: Min. 40 µ.

Oak Pearl:

Priming: Water based transparent stain.

Intermediate treatment: Several coats of UV-light curing lacquer.

Top finish: Two-component polyurethane lacquer, ultra matt.

Total film thickness: Min. 40 µ.

Black Oak:

Pre-treatment: Coloured throughout with a NH₃-treatment to achieve a dark brown colour.

Intermediate treatment: Several coats of UV-light curing lacquer.

Top finish: Two-component polyurethane lacquer, ultra matt.

Total film thickness: Min. 40 µ.

Other colours:

Priming: Coloured stain.

Intermediate treatment: Several coats of UV-light curing lacquer.

Top finish: Two-component polyurethane lacquer, ultra matt.

Total film thickness: Min. 40 µ.

OILED

Priming: Surface saturation using oxidative drying urethane oil.

Top finish: Oxidative drying urethane oil.

Total oil consumption: Addition to a full surface saturation.

UNTREATED: Final sanding to grit 150.

SQUASH

Untreated: Final sanding to grit 40.

Lacquered: Final sanding to grit 40 + 1 coat of a silk matt two-component polyurethane lacquer.

PACKING AND WEIGHT

14 x 129 mm

Wrapped in LDPE plastic and cardboard.

Boards per pack / Length / m²

8 boards / 1830 mm / 1.89 m²

1 layer in each pack may consist of 2 shorter boards of 900 mm.

Weight, kg/m²

Beech (all variants): 11.0 kg

Oak (all variants): 10.20 kg

22 x 129 mm

Boards length 3700 mm: Wrapped in LDPE plastic.

Boards length 1830/900 mm: Wrapped in LDPE plastic and cardboard.

Boards per pack / Length / m²

3 boards / 3700 mm / 1.43 m²

6 boards / 1830 mm / 1.42 m²

8 boards / 900 mm / 0.93 m²

One board in 1830 mm packs may be replaced by two shorter boards of 900 mm.

Weight kg/m²

Beech (all variants): 16.35 kg

Oak (all variants): 15.50 kg

Ash (all variants): 14.50 kg

Maple: 14.50 kg

Twin Herringbone

Wrapped in LDPE plastic.

Dimensions [mm]	14x129	22x129
Number of boards per m ²	15	15
Boards per pack	20	18
M ² per pack	1,33	1,20
Kg per pack	13,6	19,4
Length, mm	516,6	516,6