GUIDE SPECIFICATION

 **09 64 33**

**Endure Floors: Woodura XL/Woodura XXL/Herringbone**

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This Guide Specification utilizes the Construction Specifications Institute (CSI) Project Resource Manual – CSI Manual of Practice, including *MasterFormat*™, *SectionFormat*™ and *PageFormat*™. A Guide Specification is a manufacturer-specific proprietary method of specifying applicable to project specifications and master guide specifications. Optional text is indicated by brackets [ ]; delete unused optional text in the final copy of the specification. Specifier Notes commonly precede specification text; delete notes in final copy of specification. Project notes are highlighted and full width of page text; delete Project Notes in final copy of specification.

Metric conversion, where used is soft conversion. In the final copy of specification delete IP or Metric units or leave both as required to comply with project requirements. This Guide Specification specifies engineered wood strip flooring. These products are manufactured by Välinge Innovation AB for Endure Materials.

Revise Guide Specification section number and title below to suit project requirements, specification practices and section content. Refer to CSI MasterFormat 2004 edition for other section numbers and titles.

Section number below is based on CSI MasterFormat 2004 edition. This number replaces old number 09640 based on CSI MasterFormat 1997 edition. .01 suffix has been assigned to this specific product by Kahrs International Inc.

SECTION 09 64 33

engineered WOOD PLANK FLOORING

Verify that Section titles referenced in this Section are correct for this Project's Specifications; Section titles may have changed.

1. GENERAL
	* + 1. SUMMARY
				1. This Section includes the following:

Engineered **Woodura XL/WooduraXXL/Herringbone** for commercial application.

* + - * 1. Related Sections include the following:

List below only products and construction, that the reader might expect to find in this Section but are specified elsewhere.

Section 03 30 00 – Cast-In-Place Concrete: Concrete substrates including moisture content for engineered wood flooring applications.

Section 06 10 00 – Rough Carpentry: Wood substrates, including sleepers and sub flooring.

Section 06 15 00 – Wood Decking: Wood decking.

Division 7 Sections for waterproofing membranes.

* + - 1. SUBMITTALS
				1. Product Data: For each type of product indicated.
				2. Shop Drawings: Show installation details including location and layout of each type of wood flooring and accessory.
				3. Samples for Initial Selection: Manufacturer's color charts showing the full range of colors and finishes available for wood flooring.

Delete paragraph above if finishes are preselected and specified or scheduled. Retain below with or without above.

* + - * 1. Samples for Verification: For each type of wood flooring and accessory, with stain color and finish required, approximately 12 inches (300 mm) long and of same thickness and material indicated for the Work. Include sample sets showing the full range of normal color and texture variations expected.
				2. Qualification Data: For Installer.
				3. Other Submittals: Manufacturer’s “Professional Installation Guide.”
				4. Operation and Maintenance Data: For engineered wood strip flooring to include in maintenance manuals. In addition to items specified in Section [**01 77 00 -** **Closeout Procedures**] [**01 78 23 -** **Operation and Maintenance Data**], include the following:

Manufacturer’s “Floor Care Guide.”

* + - * 1. Warranties: Special warranties specified in this Section.
			1. QUALITY ASSURANCE
				1. Installer Qualifications: An experienced installer who has completed wood flooring similar in material, design, and extent to that indicated for this Project and whose work has resulted in wood flooring installations with a record of successful in-service performance.
				2. Engineered-Wood Flooring:

International Organization for Standards (ISO) 14001, 9001, and 9002 compliant.

Delete paragraph and subparagraphs below if not required. If retaining, indicate location, size, and other details of mockups on Drawings or by inserts. Revise wording if only one mockup is required.

* + - * 1. Mockups: Build mockups to [**verify selections made under sample Submittals and to demonstrate aesthetic effects**] [**and qualities of materials and execution**] [**set quality standard for fabrication and installation**].

Delete subparagraphs below if mockup is only for establishing appearance factors.

Approval of mockups is also for other material and construction qualities specifically approved by Architect in writing.

Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups, unless such deviations are specifically approved by Architect in writing.

Retain subparagraph below if mockups are erected as part of building rather than separately and the intention is to make an exception to the default requirement in Division 1 Section "Quality Requirements" for demolishing and removing mockups when directed, unless otherwise indicated.

Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

* + - * 1. Preinstallation Conference: Conduct conference at Project site to comply with requirements in Section 01 31 00 - Project Management and Coordination.
			1. DELIVERY, STORAGE, AND HANDLING
				1. Deliver wood flooring materials in unopened cartons or bundles.
				2. Protect wood flooring from exposure to moisture. Do not deliver wood flooring until after concrete, masonry, plaster, ceramic tile, and similar wet-work is complete and dry.
				3. Store wood flooring materials in a dry, warm, well-ventilated, weathertight location.
				4. Acclimate flooring in unopened packaging for a minimum of 48 hours prior to installation.
			2. PROJECT CONDITIONS
				1. Conditioning: Maintain relative humidity planned for building occupants and an ambient temperature between 64 and 85 deg F or within 15 deg F of normal operating temperature and relative humidity between 35 and 65 percent in spaces to receive wood flooring for at least seven days before installation and during installation. After the post-installation period, maintain relative humidity and ambient temperature within the ranges indicated above.

Close spaces to traffic during flooring installation and for time period after installation recommended in writing by flooring and finish manufacturers.

Construction Specifier Note: insert the following paragraph in Section concrete, rough carpentry, and wood decking Sections as applicable.

* + - * 1. Surface of the subfloor shall be level to 1/8-inch (3-mm) deviation in any direction when checked with an 6-foot (2.44-m) straight edge radius.

Construction Specifier Note: Insert the following paragraph in concrete section in Division 3. Select Standard, Radiant Heat or both as applicable.

Delete the following Paragraph and subparagraphs after inserting in Division 3 Concrete Section.

* + - * 1. Concrete Subfloor Moisture Content for Engineered Wood Strip Flooring:

Standard installation shall contain not more than 3 lb of water/1000 sq. ft. (0.91 kg of water/92.9 sq. m) in 24 hours.

In Situ RH test: not to exceed 80% RH.

Alternate test for float-in installations: Tramex Concrete Moisture Meter: 4.5 or less.

* + - * 1. Install factory-finished wood flooring after other finishing operations, including painting, have been completed.
			1. WARRANTY

Retain this Article for engineered-wood flooring if applicable for products selected.

When warranties are required, verify with Owner's counsel that special warranties stated in this Article are not less than remedies available to Owner under prevailing local laws. Coordinate with Division 1 Section "01 78 00 – Closeout Submittals or 01 78 36 - Warranties" as applicable.

* + - * 1. General Warranty: Special warranty specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

Select one of the 2 warranties and related subparagraphs indicated below.

* + - * 1. Engineered-Wood Flooring Warranty: Manufacturer will furnish a written warranty, signed by manufacturer agreeing to repair or replace engineered-wood flooring that fails in materials or workmanship.

Installation Warranty: Applies to ½” (11.3mm) flooring when installed in accordance with manufacturer’s guidelines and approved application products.

Visual Appearance Warranty: Defective planks will be replaced free of charge prior to installation.

Structural Warranty: Failure of bonding or other structural aspects of a plank fails Endure Materials will either repair or replace the defective plank.

Moisture Protection Warranty: If the flooring fails under normal moisture conditions Endure Materials will repair or replace the damaged flooring. **Approved underlayment must be used.**

Wear Through Warranty: Endure Floors: Woodura is warranted not to wear through, exposing the center core, for the following period:

Warranty Period: Lifetime from date of Substantial Completion. This warranty extends only to areas which cover at least 20 percent of the surface area of the installed floor.

Re-coating Warranty: Woodura hardwood flooring never needs re-sanding. However, the floor may be re-coated with Bona Traffic for extra protection and/or as minor scratches appear.

* + - 1. EXTRA MATERIALS

Extra materials may not be allowed for publicly funded projects.

* + - * 1. 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.

Revise below to suit Project. Replace percentage with a specific number of units.

Wood Flooring: Equal to 5 percent of the amount installed.

1. PRODUCTS
	* + 1. ENGINEERED WOOD PLANK FLOORING
				1. General Properties: Subject to compliance with requirementsby Välinge Innovations AB

Six-layer construction consisting of: UV Acrylic top coating, real hardwood wear layer, wood-based powder layer, Compositek core, wood-based powder layer, wood veneer backing

EN ISO 10874 Class Heavy Commercial (Class 33)

Thickness: (mm/inches) 11.3 mm / .445”

Wear layer thickness: (mm/inches) 0.6 mm / .02”

Sound transmission loss (STC): 8” slab only. ASTM E336/E413 Class 55

Impact isolation class (IIC): 8” slab only. ASTM E492/E989 Class 55

Slip resistance (COF): ANSI A137.1/A326.3 wet: 0.73 (average value)

Edges: Micro bevel: Long and short side

Finish: Manufacturer's standard UV cured acrylic urethane finish

Select 1 or more of the products to meet project requirements. If more than one product is selected, copy and paste the following paragraph and add WF-[#] for each different product, remove brackets. Delete the WF-# if only one product is used. Use the link in the specifier note above for current products.

* + - * 1. Product Description: **Woodura XL**

Width (mm/inches) 206 mm / 8.1”

Length (mm/inches) 2200 mm / 86.6”

Locking System: 5 G Dry

* + - * 1. Product Description: **Woodura XXL**

Width (mm/inches) 271 mm / 10.7”

Length (mm/inches) 2378 mm / 93.6”

Locking System: 5 G Dry

* + - * 1. Product Description: **Woodura Herringbone**

Width (mm/inches) 91 mm / 3.58”

Length (mm/inches) 546 mm / 21.49”

Locking System: 5 G

* + - 1. UNDERLAYMENT

Construction Specifier select appropriate product from the 3 following paragraphs in accordance with manufacturer’s installation instructions.

* + - * 1. For floating installations:

Endure Floors approved or branded underlayment: **Sound Solution Acoustical Underlayment with Vapor Bloc.**

Use of this product is required by warranty.

* + - 1. ACCESSORY MATERIALS
				1. Wood Flooring Adhesive (for glue down applications): Mastic recommended by flooring and adhesive manufacturers for application indicated.
				2. Wood Trim: In same species and grade as wood flooring, unless otherwise indicated.

Trims listed below are examples only, refer to manufacturer’s web site for full line of available trim. Revise to suit Project.

Wood Base: Manufacturer’s standard.

Quarter Round Molding: Manufacturer’s standard.

T- Molding: Manufacturer’s standard.

Threshold: Tapered on each side and routed at bottom of one side to accommodate wood flooring.

Reducer Strip: Manufacturer’s standard.

Square Nose Reducer Strip: Manufacturer’s standard.

Trim Fasteners: As recommended by manufacturer.

* + - * 1. Cleaning Agent: Use of Bona Kemi Hardwood Floor Cleaner required for warranty coverage
1. EXECUTION
	* + 1. EXAMINATION
				1. Examine substrates, areas, and conditions with Installer present, for compliance with requirements for maximum moisture content, installation tolerances, and other conditions affecting performance of work.

Delete subparagraph below if not required.

For the record, prepare a written report, endorsed by Installer, listing conditions detrimental to performance of work.

Proceed with installation only after unsatisfactory conditions have been corrected.

* + - * 1. Concrete Slabs: Verify that concrete slabs comply with requirements of Section 03 30 00 Cast-in-Place Concrete.

Verify that slabs are dry according to test methods recommended by flooring manufacturer.

Where wood flooring is installed directly over concrete slabs, grind high spots and fill low spots to provide a maximum 1/8-inch (3-mm) deviation in any direction when checked with an 6-foot (2.44-m) straight edge.

Where wood flooring is adhesively attached to concrete slabs, verify that slabs are free of curing compounds, sealers, hardeners, and other materials that may interfere with adhesive bond.

* + - 1. PREPARATION

Extensive surface preparation is required over substrates from which existing products have been removed. Requirements vary among manufacturers. Insert requirements to suit Project.

* + - * 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.

Verify that substrates are dry and free of curing compounds, sealers, and hardeners.

Alkalinity and Adhesion Testing: Perform tests recommended by manufacturer. Proceed with installation only after substrates pass testing.

Moisture Testing: see above.

* + - * 1. Remove substrate coatings and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, using mechanical methods recommended by the manufacturer. Do not use solvents.
				2. Use trowel-able leveling and patching compound to fill cracks, holes, and depressions in substrates.
				3. Do not open wood floor packaging until ready for installation.
				4. 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.
			1. INSTALLATION
				1. General: Comply with flooring manufacturer's written instructions, as applicable to flooring type.
				2. Job Site Start Up: An Endure Materials representative must have a job-site startup training with the flooring contractor crew that will be performing the installation.

Indicate special patterns and direction of parquet on Drawings or by inserts.

* + - * 1. Pattern: Lay wood flooring in pattern indicated on Drawings or, if not indicated, as directed by Architect.

Revise expansion space below to suit Project. Large areas may require more space.

* + - * 1. Expansion Space: Provide expansion space at walls and other obstructions and terminations of flooring of not less than 1/2 inch (12 mm) or greater, as required by manufacturer’s installation instructions.
				2. Underlayment (float-in installations): Install **Sound Solution Acoustical Underlayment with Vapor Bloc** underlayment in accordance with manufacturer’s installation guide.
				3. Retain one of four paragraphs below. Verify requirements for products selected.
				4. Glue Down: Glue flooring according to manufacturer's written instructions.
				5. Float-In Installation: Install floating floor according to manufacturer's written instructions.

Only float-in installations are acceptable for radiant heat applications

* + - * 1. Accessories: Nail baseboard to wall and nail shoe molding or other trim to baseboard; do not nail to flooring.
			1. CLEANING AND PROTECTION
				1. Perform the following operations immediately after completing resilient product installation:

Remove adhesive and other blemishes from exposed surfaces.

Sweep and vacuum surfaces thoroughly.

Use Bona Kemi Wood Floor Cleaner on surfaces to remove marks and soil.

Do not clean surfaces until after time period recommended by manufacturer.

* + - * 1. Protect wood flooring products from scratches, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period. Use protection methods recommended in writing by the manufacturer.

Protect installed wood flooring to avoid damage or deterioration, during the remainder of construction period until Substantial Completion. Use heavy ‘RAM Board’ or other suitable covering over entire installed flooring.

**Do not** use plastic sheets or film that could cause condensation. Ensure protection covers the ENTIRE flooring installed.

**Do not** tape protection material directly to wood flooring.

**Do not** move heavy and sharp objects directly over surfaces. Place hardboard or plywood panels over the floor and under objects while they are being moved. Slide or roll objects over panels without moving panels.

Final cleaning is normally not work of this Section. Specify final cleaning requirements in Division 1.

END OF SECTION