

HAVENCREST

SURFACES

PATTERN AND PARQUET ENGINEERED HARDWOOD FLOORING

Installation Instructions, Floor Care, and Warranty Conditions

READ BEFORE INSTALLATION

Pattern installation is layout work first

Confirm pattern, working lines, border plan, balanced cuts, and visual layout before adhesive is spread.

Installation is acceptance of product quality, color range, grade, milling, profile, and layout suitability.

Pattern floors typically require more waste than plank floors. Add at least 10%, and more for diagonal layouts, borders, complex rooms, or heavy grading.

Do not install questionable material. Claims for visible defects must be made before pieces are installed.

Tools

Chalk line, tape measure, trammel points or bar compass, framing square, straightedge, tapping block, pull bar, spacers, approved adhesive trowel, and moisture meters.

Adhesive

Use an adhesive approved for engineered hardwood, the selected subfloor, site moisture conditions, and the exact installation method.

Working time

Spread only as much adhesive as can be worked within the adhesive manufacturer open time. Pattern work often requires smaller adhesive sections.

Safety

Use dust collection, ventilation, eye protection, and an appropriate respirator when cutting, sanding, or machining wood products.

INSTALLER AND OWNER RESPONSIBILITY

Final inspection: Inspect every block, panel, strip, plank, and pattern piece before installation. Do not install visible defects.

Dry layout: Dry-lay enough material to confirm pattern orientation, repeat, border conditions, and visual balance before spreading adhesive.

Carton blending: Work from several cartons at the same time to blend color, grain, grade, and character.

Subfloor tolerance: Pattern and herringbone installations are less forgiving than plank. Target 1/8 in. over 10 ft. where practical, or meet the tighter product, adhesive, and NWFA requirements.

Working lines: Primary, secondary, diagonal, and border working lines must be accurate, square, and repeatable.

Documentation: Record layout lines, moisture readings, adhesive system, jobsite conditions, and installer observations before and during installation.

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JOBSITE CONDITIONING AND SUBFLOOR REQUIREMENTS

Acclimation: HVAC should operate at least 14 days before installation, maintaining normal living conditions. Keep cartons closed until installation begins.

Subfloor condition: Subfloor must be clean, dry, flat, sound, and free of wax, paint, oil, dust, drywall compound, curing compounds, adhesive residue, and contaminants.

Existing surfaces: Tile, terrazzo, and resilient flooring must be secure, flat, clean, and compatible with the adhesive system. Loose or perimeter-glued materials must be removed.

Wood subfloors: Plywood and OSB must be structurally sound, properly fastened, and suitable for the installation method. Particleboard is not acceptable for nail-down or staple-down installation.

Wood moisture: Wood subfloor moisture content must not exceed 12% and should not differ from flooring by more than 4 percentage points unless the product-specific requirement is more restrictive.

Concrete moisture: Use ASTM F2170, ASTM F1869, and/or ASTM F2659-style evaluation as appropriate for the adhesive and flooring system. Retest if site conditions change.

RADIANT HEAT

Product approval

Use over radiant heat only when the product and installation method are approved. Pattern products are often glue-down only over radiant heat.

System operation

Radiant system must operate at normal temperature for at least 21 days before installation, then be turned off 24 hours before and 24 hours after installation unless otherwise instructed.

Temperature limit

Maximum wood surface temperature must never exceed 80 F, including under rugs and furniture.

Subfloor contact

The wood floor must lie tight against the sub-surface without air gaps. Heating must be even across the entire floor area.

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PATTERN SETUP AND WORKING LINES

Perimeter working lines: Establish inside border lines equal to a multiple of the material width. Adjust for border design and balanced field repeats.

Primary line: Find center points on opposing walls and snap the primary center line. This line becomes the reference for the layout.

Secondary line: Establish a true 90-degree secondary line using trammel points, the 3-4-5 method, or an accurate laser.

Center work: Build the field from the center toward perimeter working lines, checking measurements often to prevent unsightly cuts or rips.

Laser method: Laser layout tools may improve speed and accuracy. Confirm lasers are calibrated and capable of establishing the required 90-degree or 45-degree lines.

Verification: Verify all working lines before adhesive is spread. Correct the layout before installation begins, not after the pattern is locked into adhesive.

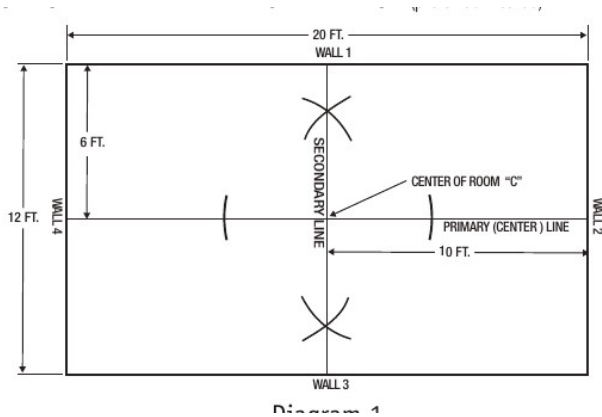
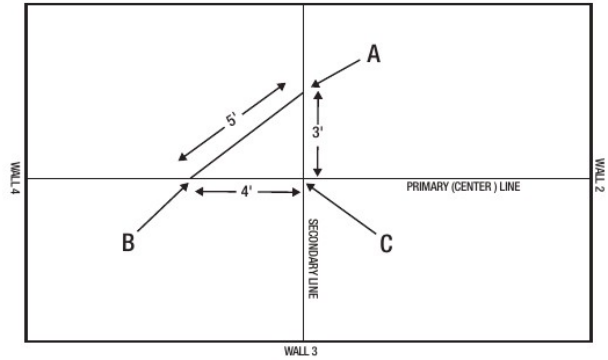


Diagram 1
Trammel point method - original diagram retained.



3-4-5 method - original diagram retained.

GLUE-DOWN PATTERN INSTALLATION

Adhesive selection

Use approved elastomeric wood flooring adhesive compatible with product, substrate, moisture conditions, finish, and required open time.

Placement

Place pieces into adhesive in front of the previous row or unit, then push and rotate into position as needed. Do not force pieces in a way that distorts the pattern.

Trowel and open time

Use the adhesive manufacturer specified trowel. Spread only the amount that can be installed while adhesive remains workable.

Alignment checks

Check working lines, square, pattern repeat, and adhesive transfer frequently. Correct drift immediately.

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DIAGONAL LAYOUT AND PATTERN EXAMPLES

Diagonal layout: Using the primary and secondary lines, scribe arcs and snap diagonal lines at 45 degrees to establish diagonal working lines.

Measurement check: Snap lines between arc intersections and mark walls where the lines meet. Verify measurements before proceeding.

Pattern selection: Pattern direction should be selected based on room geometry, light source, longest dimension, focal point, border plan, and customer preference.

Expansion: Leave 3/8 in. expansion at all walls, columns, pipes, thresholds, and vertical obstructions unless a more restrictive product requirement applies.

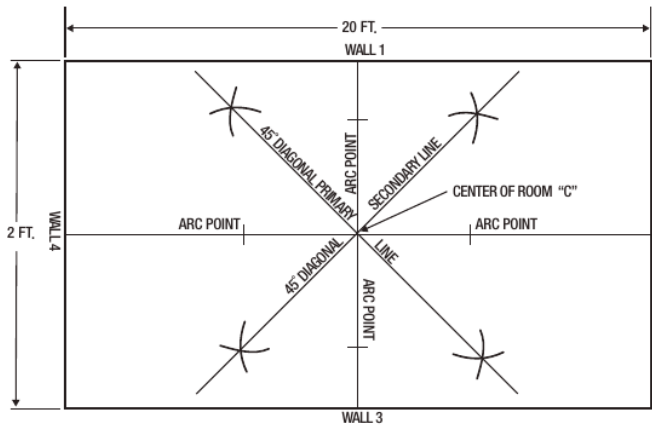
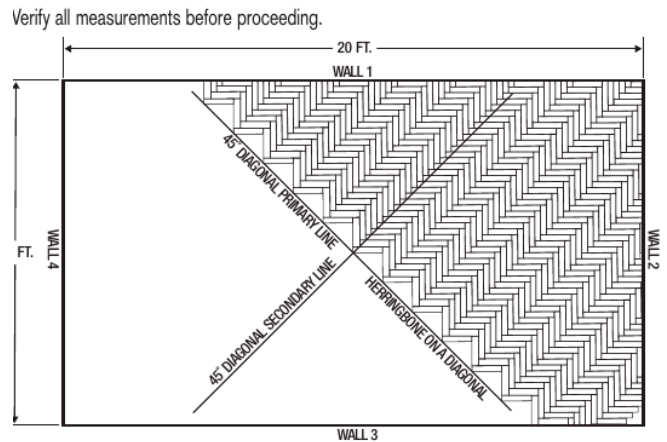


Diagram 3

Diagonal trammel method - original diagram retained.



Diagonal herringbone example - original diagram retained.

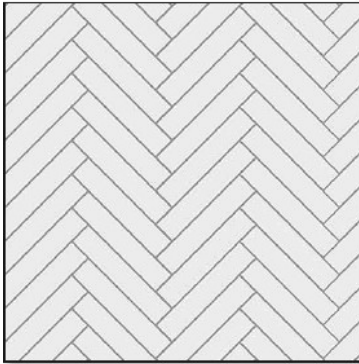
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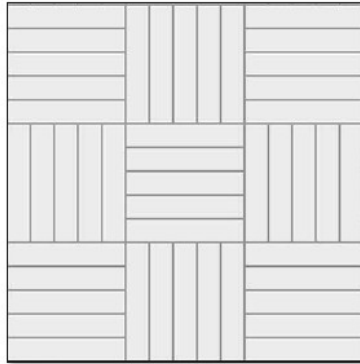
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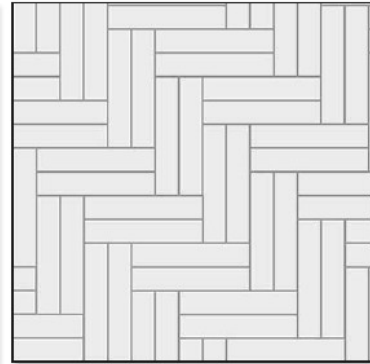
PATTERN VISUAL REFERENCES



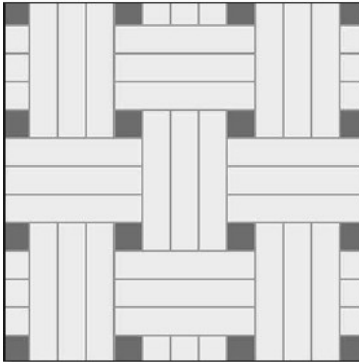
Herringbone



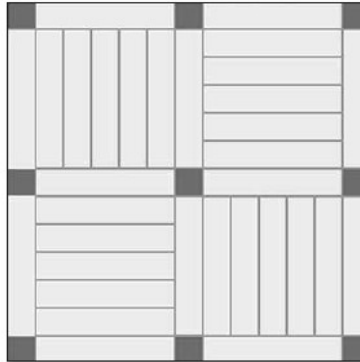
Block



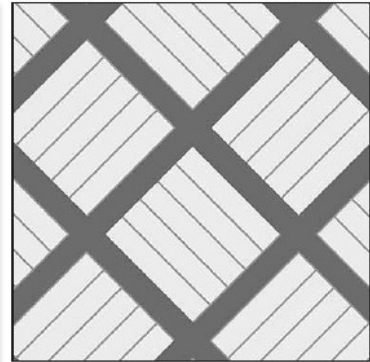
Double Herringbone



Braided



Squares



Marie Antoinette

Original pattern examples retained from the source instructions.

Herringbone

Confirm direction, center line, and repeat before adhesive is spread.

Braided and decorative patterns

Confirm diagonal lines, square repeats, and insert orientation before setting pieces permanently.

Block and square patterns

Use a true 90-degree reference and complete small sections while checking guide lines.

Borders and transitions

Plan borders, thresholds, and balanced cuts before field installation begins.

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HERRINGBONE LAYOUT AND INSTALLATION

Direction: Install herringbone direction according to client preference. Points often look best toward the longest room dimension or a focal point.

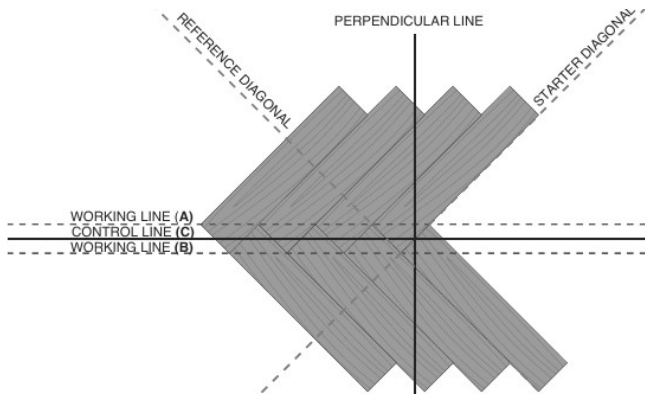
Flatness: Subfloor flatness is especially critical. Target 1/8 in. over 10 ft. where practical, or meet product and adhesive requirements.

Working lines: Strike main control, perpendicular, diagonal reference, and repeatable working lines. Dry-lay a small section and measure to confirm a balanced layout.

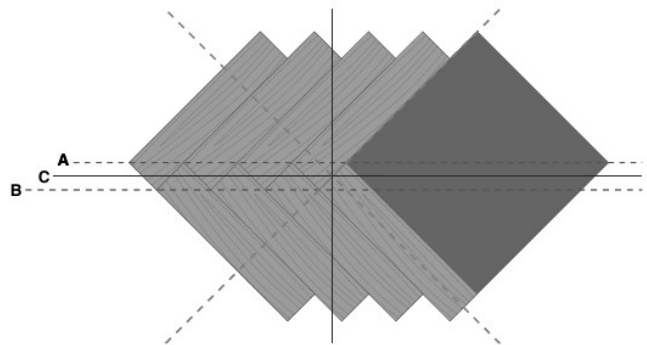
True center: Measure true center of the herringbone pattern, not just the room center. They may not be visually the same.

Build direction: For direct glue, keep working lines visible. Start with tongues oriented toward the build direction where applicable.

Ongoing checks: Install one row at a time. Periodically check alignment, pattern repeat, and measurement D before extending the pattern.



Control lines and true center - original diagram retained.



Starter and working lines - original diagram retained.

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Diagram illustrating the relationship between the Reference Diagonal, Starter Diagonal, Perpendicular Line, Working Line (A), Control Line (C), and Working Line (A) in a weaving pattern.

Ongoing alignment: Check control lines, diagonal references, adhesive transfer, and pattern repeat throughout the installation.

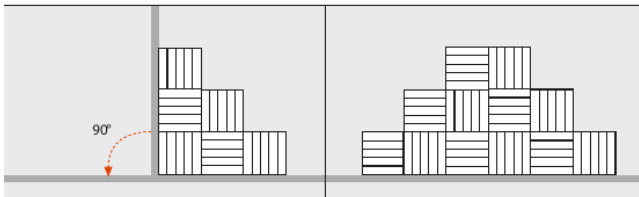
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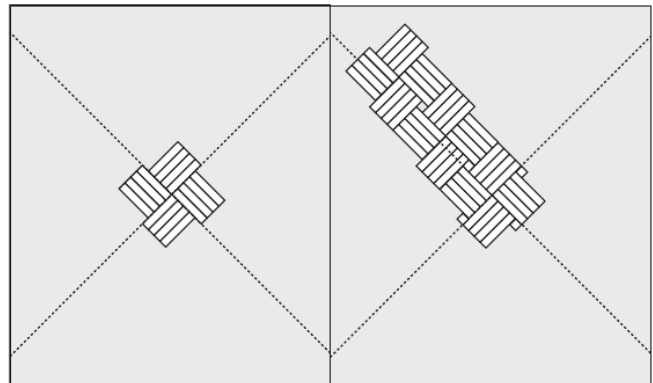
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BLOCK, BRAIDED, AND SQUARE PATTERNS



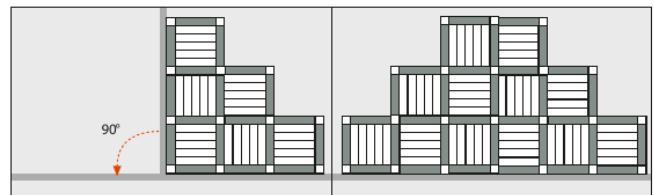
INSTALLING BLOCK PATTERN

It is important to ensure that the overall visual affect is aesthetic. If the room is relatively small then begin installation at the center point of the wall. If the room is large, begin in the center. Remember to allow an 3/8" expansion gap along all walls. When starting along the wall, fix a 90° angle template to the sub-floor at the center point of the wall. When installation begins in the center of the room, start by finding the center point of the room and fix a template to the floor at this point, parallel to the wall. Each square is made up of 5 strips. Start installing the strips in the corner of the template, completing 1 square at a time. The second square is installed at right angles to the first square. Install approx. 3' x 3' and allow hardwood flooring to adhere to the sub-floor (refer to the adhesive manufacturers' instructions), before removing the perpendicular board. Continue installation from the center point but in the opposite direction, working in a staggered pattern outwards towards the walls. **Important! Check the guide string regularly during installation.**



INSTALLING THE BRAIDED PATTERN

Firstly, determine the rooms center and mark a square diagonal line. As the pattern is offset you can not use a guide board. Build up the four board pattern that meet without the cut 4-3/4" square "blocks in the center. They add one 4-3/4" square block and build up the next set of 16 planks moving along the marked center line. Be sure each set of 16 planks remains square in its center as you go.



SQUARES INCORPORATING DECORATIVE PLANKS AND SQUARES

Original block, braided, and square pattern diagrams retained from the source instructions.

Block pattern

For smaller rooms, starting at the center point of the wall may create the cleanest layout. For larger rooms, start from the room center. Use a 90-degree template and complete one square at a time.

Squares with decorative pieces

Install similarly to square/block patterns, using corner squares and strips to frame each larger square. Confirm decorative insert orientation before adhesive is spread.

Braided pattern

Find the room center and mark square diagonal lines. Because the pattern is offset, guide boards may not work. Build a repeatable starter set and confirm each set remains square.

Adhesive set

In large or complex layouts, install a manageable section and allow adhesive to set enough to hold alignment before extending the pattern in the opposite direction.

FLOATING, NAIL-DOWN, AND STAPLE-DOWN DETAILS IF PERMITTED

Default method: Unless product-specific instructions clearly allow floating, nail-down, or staple-down, assume pattern products require full-spread glue-down installation.

Nail/staple use: Mechanical fastening is only acceptable when the product, pattern, subfloor, fastener schedule, and fastening equipment are approved.

Mechanical setup: Use correct shoe adapter, pressure, fastener type, and fastener spacing. Test on scrap flooring before beginning.

Starting blocks: Depending on pattern, establish two straight boards perpendicular to each other or work directly to snapped lines as required.

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ALL INSTALLATIONS: COMPLETING THE JOB

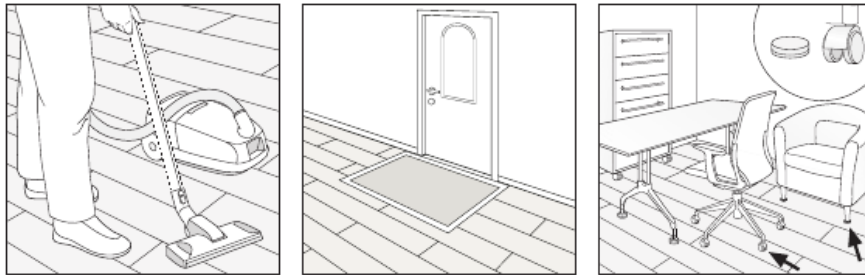
Expansion gaps: Remove spacers and cover expansion gaps with baseboard, quarter round, pocket moldings, or appropriate transitions. Nail moldings to the wall, never to the flooring.

Clean-up: Clean, sweep, and vacuum the installed floor before use. Remove adhesive from the flooring surface immediately with manufacturer-approved cleaner.

Touch-up: Use of stain, filler, or putty stick for minor correction during installation is considered normal procedure.

Protection: If the floor must be covered, use breathable protection such as cardboard. Do not cover with plastic or other vapor-barrier material.

FLOOR CARE GUIDE



Original floor-care illustrations retained from source instructions.

Entrance protection: Use walk-off mats at entrances and area rugs in high-traffic areas and at sinks. Backings must not discolor, trap moisture, or trap heat.

Furniture protection: Use non-staining felt or approved floor protectors under furniture and equipment. Replace protectors regularly.

Humidity: Maintain normal interior humidity. Seasonal humidification or dehumidification may be required depending on region and HVAC conditions.

Routine cleaning: Dust, sweep, and vacuum regularly. Do not allow sand, grit, or dirt to build up on the floor.

Wet cleaning: Use only a very dry sponge mop when needed. Do not wet mop, steam clean, wax, or use harsh chemicals.

Sunlight: Move area rugs periodically to reduce uneven UV exposure and color change.

WARRANTY CONDITIONS AND COMMON EXCLUSIONS

Visible defects

Visible defects must be reported before installation. Installed material is considered accepted for visible grade, color, milling, and finish appearance.

Not covered

Improper storage, jobsite moisture, installation errors, subfloor issues, improper adhesives, maintenance errors, water damage, abuse, scratches, dents, pet damage, insects, and extreme conditions are commonly excluded.

Manufacturing remedy

Warranty remedies are generally limited to repair, replacement, refinishing, or refund for the affected material, subject to the applicable product warranty.

Warranty term

Use the product-specific warranty term for the exact collection and program. Do not rely on this generic guide to set warranty duration.