Kährs®

INSTALLATION GUIDE KÄHRS WOOD FLOORING FLOATING INSTALLATION

KÄHRS WOODLOC®5S
KÄHRS WOODLOC®5G

Kährs 15mm ORIGINAL Collection	5/8″
Kährs 7mm LIFE Collection	1/4″
Kährs 10mm LIFE Collection	3/8″
Kährs 13mm AVANTI Collection	1/2"

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Jobsite and Subfloor Preparation

Note: These directions are based on industry standards and best practices. Warranty coverage may be lost due to your failure to strictly follow all installation instructions and recommendations and/or the use of improper materials or tools. For complete warranty information visit www.kahrs.com or call 1-800-800-5247.

READ ALL INSTRUCTIONS CAREFULLY!
THANK YOU FOR CHOOSING KÄHRS FLOORING!

Owner/Installer responsibility

The installer and customer must both ensure the product meets their expectations regarding appearance, quality, and grade prior to installation. The installer must use reasonable selectivity and set aside or cut off pieces with deficiencies, whatever the cause. Should an individual piece be doubtful as to grade, manufacture, or factory finish, the installer should not use the board.

Prior to installation of Kährs flooring, the installer must ensure that the jobsite and subfloor meet the requirements of these instructions. Floor failure resulting from unsatisfactory jobsite and/or subfloor conditions is not covered under warranty.

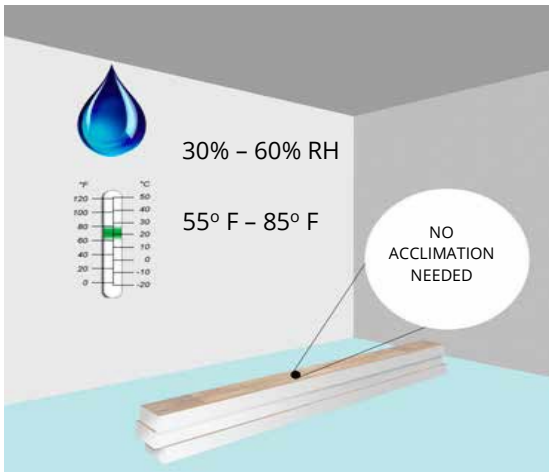
Any decision not to proceed must occur within the first 10% or 100 square feet of flooring installed, whichever is less. Once installed, any board is considered as having been accepted by the installer and owner, even if the owner is absent at the time of installation. Please see *Kährs Wood Floor Guarantee document* for more information.

The owner must maintain the flooring in accordance with Kährs Wood Floor Care guidelines, including maintaining recommended Temperature and Relative Humidity levels year-round.

Always store the hardwood flooring in dry conditions and do not open the cartons until just before installation.

JOBSITE CONDITIONS

Interior Conditions



- Kährs products must be installed only in a climate-controlled environment, with doors and windows installed and an operational HVAC system.
- Acclimation is not necessary if the engineered flooring has been stored in a climate-protected environment, and if the jobsite is maintained within the manufacturer's recommended temperature and humidity range prior to and during installation.
  If these conditions cannot be confirmed or maintained, acclimate the flooring in the installation space for a minimum of 24 hours.
- Wood flooring should be one of the last items installed for any new construction or remodel project. All work involving water or moisture should be completed before flooring installation.
- Relative Humidity at the job site must be, and remain, in the range of **30% - 60%.** Temperature setting must be, and remain, in normal operating range of **55ºF - 85ºF**. Test and record (photograph) RH readings in each area where Kährs products will be installed.
- *Warning* - humidity levels below 30% will likely cause movement in the flooring, including possible dry cupping, face checking and gapping between planks.

Exterior conditions

- Carefully inspect the outside surroundings for improper drainage and predictable or obvious sources of moisture. The yard should be graded (at least 6" in 10 ft.) to slope away from the foundation. Be sure that gutters and eaves sufficiently prevent rain from penetrating the foundation.
- Under the house: In homes with crawl space or pier-beam foundations, foundation vents must provide cross-ventilation with no dead air space. If excessive moisture exists underneath the house, you must lay a 6-mil black polyethylene moisture barrier on the ground in the crawl space below the installation area.
- Basement should be free of all moisture and be weather tight. Relative Humidity of basements should not be more than 10% higher than the upper floors.
- Exterior site/structure issues are NOT the responsibility of the flooring contractor/installer or Kährs.

SUBFLOOR REQUIREMENTS

Moisture and testing

The installer must confirm subfloor moisture conditions are suitable before installing any hardwood floor.
Wood subfloor moisture must read under **12%** and differential between boards and subfloor must be less than 4%.
Concrete subfloor must be fully cured and at least 60 days old. Evaluate several areas, especially near exterior walls and walls containing plumbing. Document and keep all results.
Acceptable test methods for concrete subfloor moisture content include:

• TRAMEX Concrete Moisture Encounter Meter: Moisture readings should not exceed **4.5** on the upper scale. Concrete Moisture Meters give qualitative reading results-not quantitative ones. These results are a quick way to determine if further testing is needed.

Note: The following tests are required in residential/commercial applications. Either or both tests are acceptable.

• Calcium Chloride Test (ASTM F 1869): The maximum moisture transfer must not exceed **3 lbs**./1000 ft^2 in 24 hrs. (2lbs./1000 ft^2 for Radiant Heat installations).

• **RH** Levels in Concrete Using In-situ Probes (ASTM F 2170) should not exceed **75%**.

Preparation and specifications

A floor can only be as good as the subfloor allows. All subfloors must be **clean, structurally sound, dry, and flat**. Address any movement, delamination, squeaks/noise, water damage, physical damage, etc. prior to installation. Use a vacuum cleaner to remove any debris and dirt.
Subfloor flatness is different from 'level'. Level is typically not necessary, but it is extremely important to level the subfloor to achieve the **flatness** of an 1/8″ in an 8′ radius. Check this by using the edge of a Kährs plank to find any high or low spots. Sand or grind high areas or joints. Fill low areas with a latex additive cementitious leveling compound of 3,000-PSI minimum compressive strength patch and underlayment. For more information on how to correct subfloor flatness, see *NWFA Installation Guidelines*.

Note: Subfloor deflection and movement are the main cause of squeaking floors. If subfloor deflection exists measures must be taken to correct. Check NWFA guidelines for joist spacing and plywood thickness.

All Kährs wood products installed over wood subfloors, lightweight or standard density concrete subfloors, or other existing floors with the float-in method must have Kährs ECO+, COMBO or QuietStride underlayment. QuietStride does not come with vapor barrier built-in, add 6mil polyethylene film for installations over concrete slab.

Ceramic tile, resilient tile and sheet vinyl must be well-bonded to the subfloor, in good condition, clean and flat.

Kährs floor should never be installed over an existing floating floor, over a carpet pad, or directly on joists or sleepers.

Please refer to '*NWFA Wood Flooring Installation Guide'* for more information on subfloor types and recommendations.

For installations over sub-floors with Radiant Heat, please refer to ***'Kährs Radiant Heat Special instructions'*** guide at www.kahrs.com

WARNING! INSTALLERS
WARNING: Drilling, sawing, sanding or machining wood products can expose you to wood dust, a substance known to the State of California to cause cancer. Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection. For more information go to www.P65Warnings.ca.gov/wood. Precautionary Measures: If power tools are used, they should be equipped with a dust collector. If high dust levels are encountered, use an appropriate NIOSH-designated dust mask. Avoid dust contact with eye and skin. First Aid Measures in Case of Irritation: In case of irritation, flush eyes or skin with water for at least 15 minutes.

UNDERLAYMENTS

Kährs ECO+ Underlayment with Vapor Bloc

Install Kährs ECO+ underlayment with the film side up and in the same direction that the flooring is to be installed.
ECO+ is an approved underlayment for Radiant Heat applications.

- Be sure the sub-floor is clean and dry.
- Roll out one section of the Eco+ with Vapor Bloc parallel to the wall and in the same direction as you plan to install the wood flooring. The product will roll out with the Vapor Bloc film up and the foam side down to the sub-floor.
- Next install the wood planks atop the underlayment in accordance with the specific installation instructions for that product. Be sure that you can still see the edge of the underlayment so that you can properly line up the next roll.
- Install the next section of underlayment, butting the foam underlayment seams together. Remove the release film and press the overlapping Vapor Bloc film into the pre-applied adhesive, making certain the film is securely bonded to the adjacent section of underlayment. Repeat the above steps until the installation is complete.

Kährs QuietStride 2.0

When installing over a concrete subfloor, a Class I impermeable vapor retarder is always recommended under the QuietStride acoustic underlayment.
QuietStride with 6 mil polyethylene plastic is approved for float-in Radiant Heat applications.

- First install 6 mil polyethylene plastic loose-laid, seams overlapped 8”. Run plastic up the wall 2” (trim excess after installation, before installing trim). Loose-lay QuietStride on top of plastic, wall to wall, and all seams together.
- No vapor retarder is necessary when installing over a conditioned basement or other space maintained at the same temperature and humidity as the space where Kahrs flooring is being installed.

Kährs COMBO-System Underlayment

Combo-System Underlayment is also approved for Radiant Heat applications.
The width of a row of Combo-System Underlayment is comprised of 40” of underlayment plus an 8” overlap flap. The overlap flap guards the flooring from moisture at the seams, where the rows of underlayment are laid side by side. The overlap flap has a peel and stick strip to aid the installation process.

- Layout 1st row of underlayment (logo side down, blue side up) with the overlap flap facing the starting wall. Allow the underlayment to wrap up the wall, on the ends, approx. 2”.
- Reach under and grab the overlap flap and pull it up so it lies against the starting wall. Trim this overlap flap back to leave approx. 2” of plastic up the wall.
- Lay 2nd row of underlayment flush to first. Make sure the overlap flap is next to 1st row, and the ends wrap up the walls. (If flooring installation has already begun, make sure to stop the flooring approx. 8 inches from the side of the underlayment to allow for the installation of the overlap flap.)
- Again, reach under and grab the overlap flap. Pull the flap up and fold it back to expose the peel and stick strip. Remove the white protective cover from the adhesive strip. Lay overlap flap across the 1st row of underlayment and press into place. Do NOT overlap underlayment. Overlap flap only.
- Cover the entire floor area and run the underlayment up the perimeter walls approximately 2”. This provides a secure enclosure for the flooring. After the floor is installed and before the installation of the baseboards, the excess underlayment should be trimmed to the height of the floor surface.

Important: Kährs does not guarantee the performance of any non-Kährs branded underlayment.

INSTALLATION PREPARATION

For subfloor and environmental specifications see Jobsite Conditions / Subfloor Requirements section or visit www.kahrs.com

- Do not open packages until you are ready to begin installation! Kährs flooring is sealed at the factory with an average of 7% moisture content.
- Inspect each board as you begin to install.
  It is the installer's responsibility to be aware of the grade, Relative Humidity of the room, and Moisture Content of the subfloor. You should check that each plank is free of damage or manufacturing defects. If faulty products are discovered regarding, for example, appearance or other design elements that do not correspond to what is described in the product sheet, it is important that a complaint is made before you install the floor. Defective products should be placed aside for later replacement. Boards with obvious faults that are detectable before installation must not be used.

When a floorboard has been laid, regardless of whether you lay it yourself or hire a floor installer, you as a buyer are also considered to have approved it.

- When possible, preselect and set aside boards that blend best with all horizontally mounted moldings (reducer/stair nose etc.) This will ensure a uniform final appearance. Install these boards adjoining the moldings.
- Always install the floor from several cartons at the same time to ensure good color and shade mixture.
- Cut door jambs after subfloor leveling is completed.
- Do not use rubber mallets or hammers on the finished edge of the floors.
- Kährs Flooring is approved for installations in ½ bathrooms only (no bathrooms including showers or bathtubs).

Layout - Expansion - MAX Width

- Never attach any permanent object through the flooring, affixing it to the subfloor. Kitchen cabinets with heavy countertops should never be installed on top of the floating wood. A floating floor must be free to expand and contract in all directions. Installation of cabinets on top of a floating floor does not invalidate Kährs Guarantee, but if such floor requires repair under warranty, Kährs will not be responsible for removing/replacing the cabinets.
- When installing floors with Woodloc®, it is easier if the installation is started at the long side that has the most doors. If there are doors on the short sides of the room, it is also easiest to start a new row of boards from that side. The boards can be laid both from the left and right and backwards. If the floor width and length exceed the specified maximum dimensions, the floor must be divided by an expansion joint.
- We recommend installing planks in the longitudinal direction of the room, as the boards expand and contract less in length than in width. In long and narrow spaces, such as **hallways**, the planks should also be laid **lengthwise** to help the floor remain stable and lie flat against the subfloor.
- A 'connected area' is defined as all floor sections that are installed without a physical break or separation. Careful planning is essential to ensure that the **maximum floor width and length** do not exceed the allowable dimensions specified in the table on the right.
  Kährs requires the use of T-molding only when the connected floor area exceeds the maximum dimensions listed. This is necessary to ensure the long-term performance and stability of the floor.

Product	Type of joint	Max Width	Max Length
ORIGINAL 15 mm flooring	Woodloc 5S	80 feet	160 feet
AVANTI 13-15 mm flooring	Woodloc 5G	50 feet	80 feet
LIFE HDF-CORE 7–10 mm flooring	Woodloc 5G	50 feet	80 feet

- For more complex room layouts, it may be advisable to consult with a professional floor installer or contact Kährs directly to review the specific conditions. In cases where sufficient expansion space cannot be provided, or for very large areas, a glued-down installation method may be a more suitable option.

Installation

- Natural seasonal variations cause a certain amount of movement (expansion and contraction) in wood floors. Therefore, the floors must never be installed close to adjacent walls or other fixed building parts. A movement joint according to the table below must therefore be left around all sides of the continuous floor surface.
  This expansion space must be left around all walls, doors, and all vertical obstructions. The floor must be able to expand at all walls, thresholds, door frames, heat pipes, columns, stairs, tiled or other hard surface floors. It is important to ensure that even the climate-induced shrinkage in winter is covered by the molding.

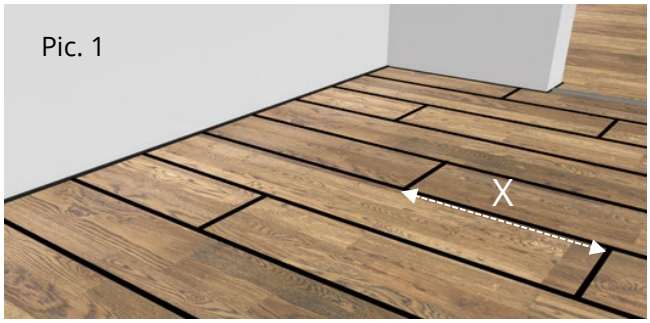
  Minimum expansion requirement is 1/2" and increasing by 1/16" of expansion space for every 3' of Connected Area Width or 9' of connected area Length.
  See the chart below:

Required Expansion Reference Chart			
Connected Area WIDTH	Required Expansion Space*	Connected Area LENGTH	Required Expansion Space*
Up to 25'	1/2"	Up to 80'	1/2"
25' to 50'	1/2" - 7/8"	80' to 120'	1/2" - 3/4"
50' to 80'	7/8" - 1 1/2"	120' to 160'	3/4" - 1"

- A proper staggering of the end joints in adjacent rows must be present to keep the floor flat during climate variations. A minimum of one end joint is required in every row, regardless of width (e.g., hallways).

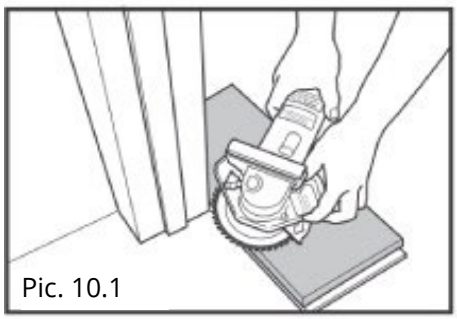
  Stagger the end joints randomly, at a minimum of X =18" for 15mm floors, X =12" for 13mm/LIFE floors (Pic. 1)
- We aim to manufacture boards that are slightly convex lengthwise to make the floor easy to install (Pic. 2)

Pic. 1

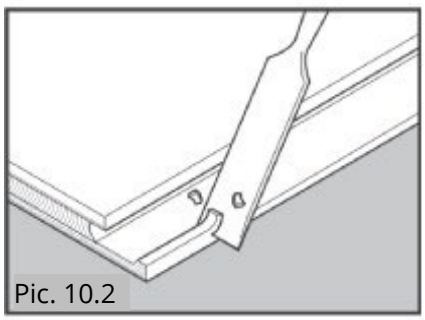


Pic. 2

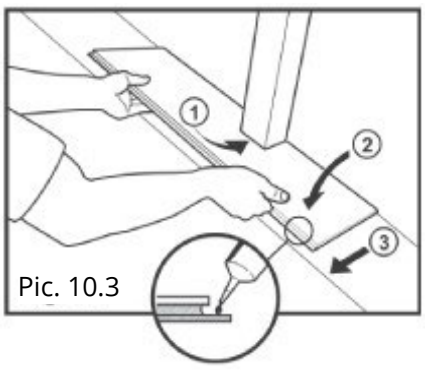
- Packages may contain start and stop boards. These boards have no joints on one short side and are used as the first and last board in a row, respectively.
- If door jambs need to be cut, use a piece of board and piece of underlayment to obtain correct height (Pic.10.1).
- Adhesive should not normally be used on boards with Woodloc® joints. However, in connection with door jambs or radiators, installation is sometimes easier if 1/3 of the locking edge (lip) is planned off and adhesive is applied to the horizontal underlip (see picture 3). If boards cannot be easily angled under door frame or similar, cut away locking edge as shown in Pic. 10.2, then apply Landobond Adhesive (or any adhesive designed to glue T&G) and install board as shown in Pic. 10.3



Pic. 10.1



Pic. 10.2



Pic. 10.3

INSTALLATION TECHNIQUES AND TIPS

Kährs Woodloc 5G employs a locking pin to engage the short end of boards. Start in the corner and lay the first board with tongue side toward walls with tongue cut off. (Fig 1). Hold the second board against first board at approximately a 20º - 30º angle. Lay second board flat. Once in place, press firmly until an audible click is heard. This will ensure the boards are locked together.
Proper expansion space can be achieved by pulling the floor away from the wall once the first three rows have been installed. Place wedges to restrain movement and maintain expansion gap. For proper expansion refer to the calculation worksheet.

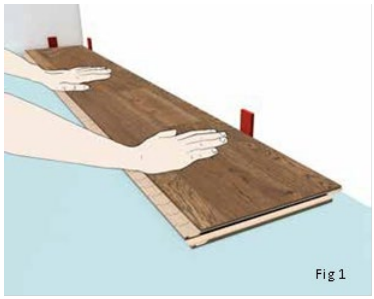


Fig 1

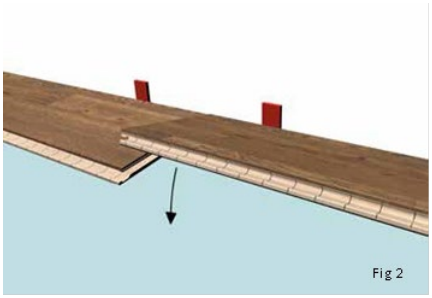


Fig 2

Once the complete row is installed as described above, the cut off piece at the end of the row can be used as a starter board for the next row, providing joints in the adjacent row are staggered a minimum of 25% of the length of the board. Example: 8’ board = 24”, 6’ board = 18”, 4’ board 12”. Starter boards should be a minimum of 12”. (See Layout section)

The boards must be inserted into the long joint first at approximately a 20° to 30° angle and then moved flush with the short joint of the previously installed board. Once the board is firmly placed against the short joint of the existing board, tap in the long joint with a knocking block to ensure that it is fully engaged, and press it into place. It is important to press down on the board until you hear the audible ‘click’. Continue installing the boards in the same manner paying attention to the end joint staggers.

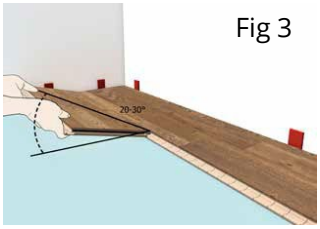


Fig 3

Fig 4

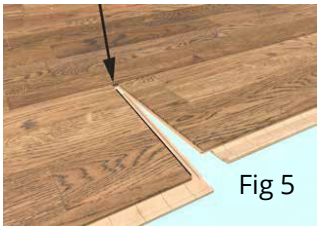


Fig 5

Fig 6

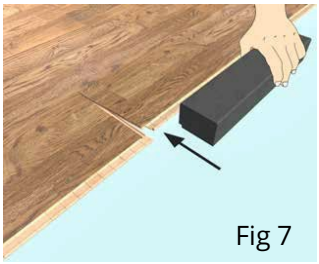


Fig 7

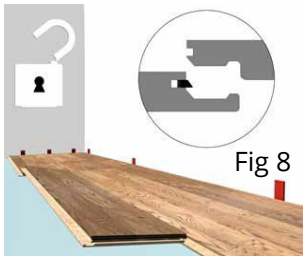


Fig 8

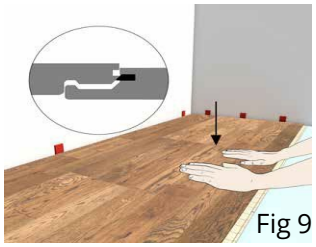


Fig 9

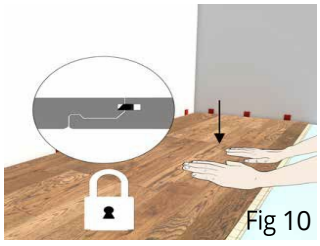
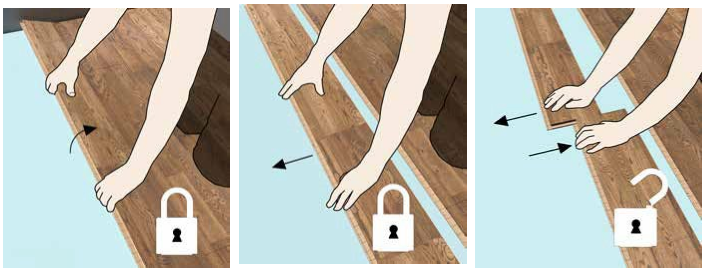


Fig 10

Disengaging Boards

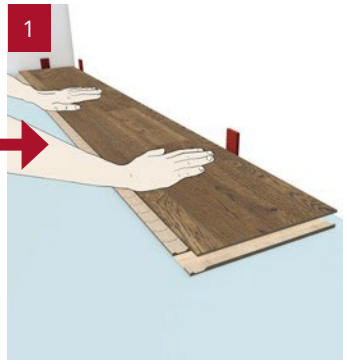
Boards can be laid in all directions if necessary. Woodloc® 5G dismantles easily. This enables easier planning for difficult installation areas. To disengage locked boards, first detach the entire row and place it on flat surface. Push or tap in opposite directions until boards unlock.

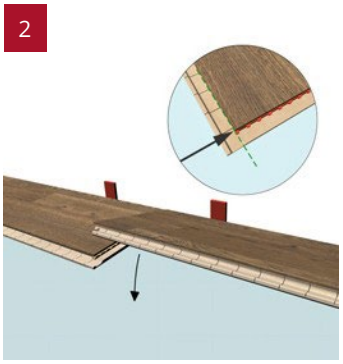


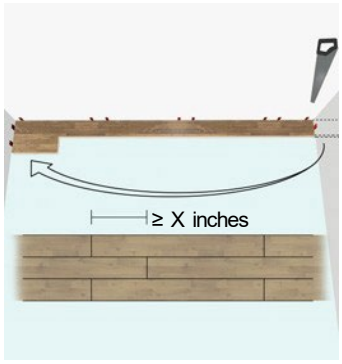
INSTALLATION

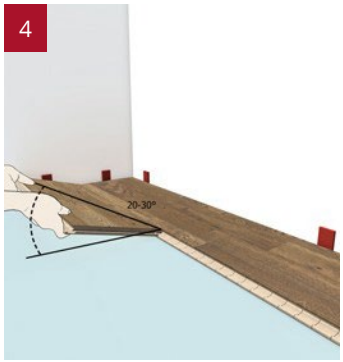
Woodloc 5S

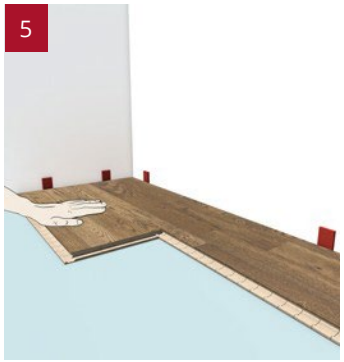
Regular Installation

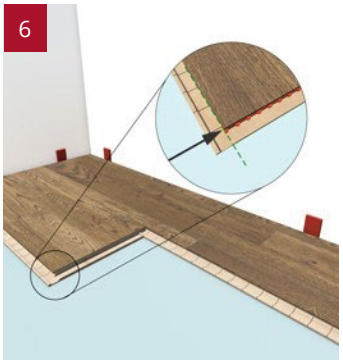


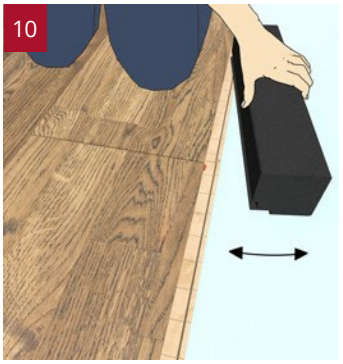


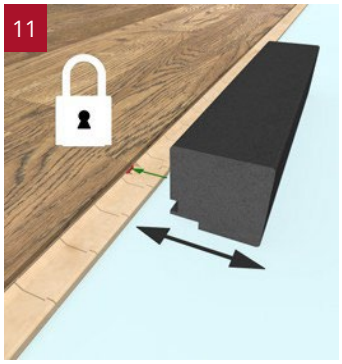




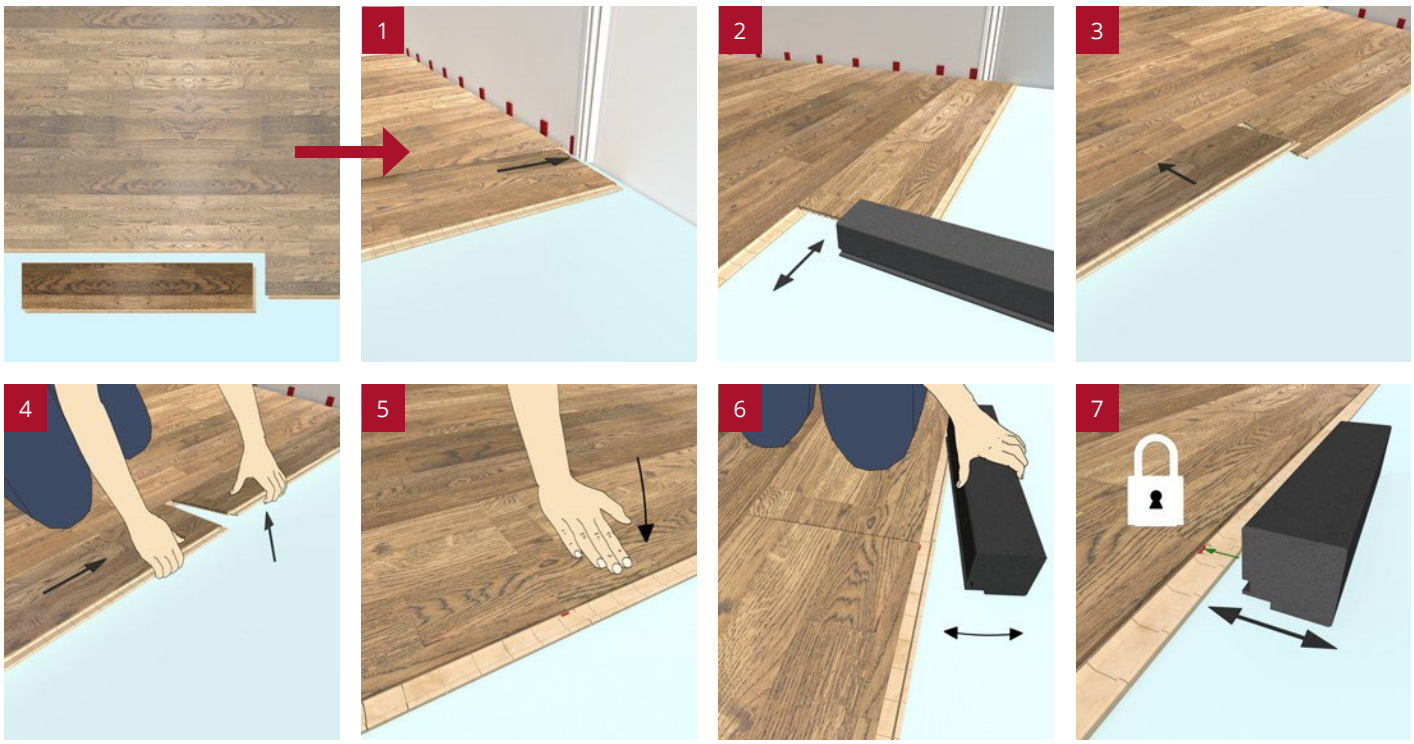




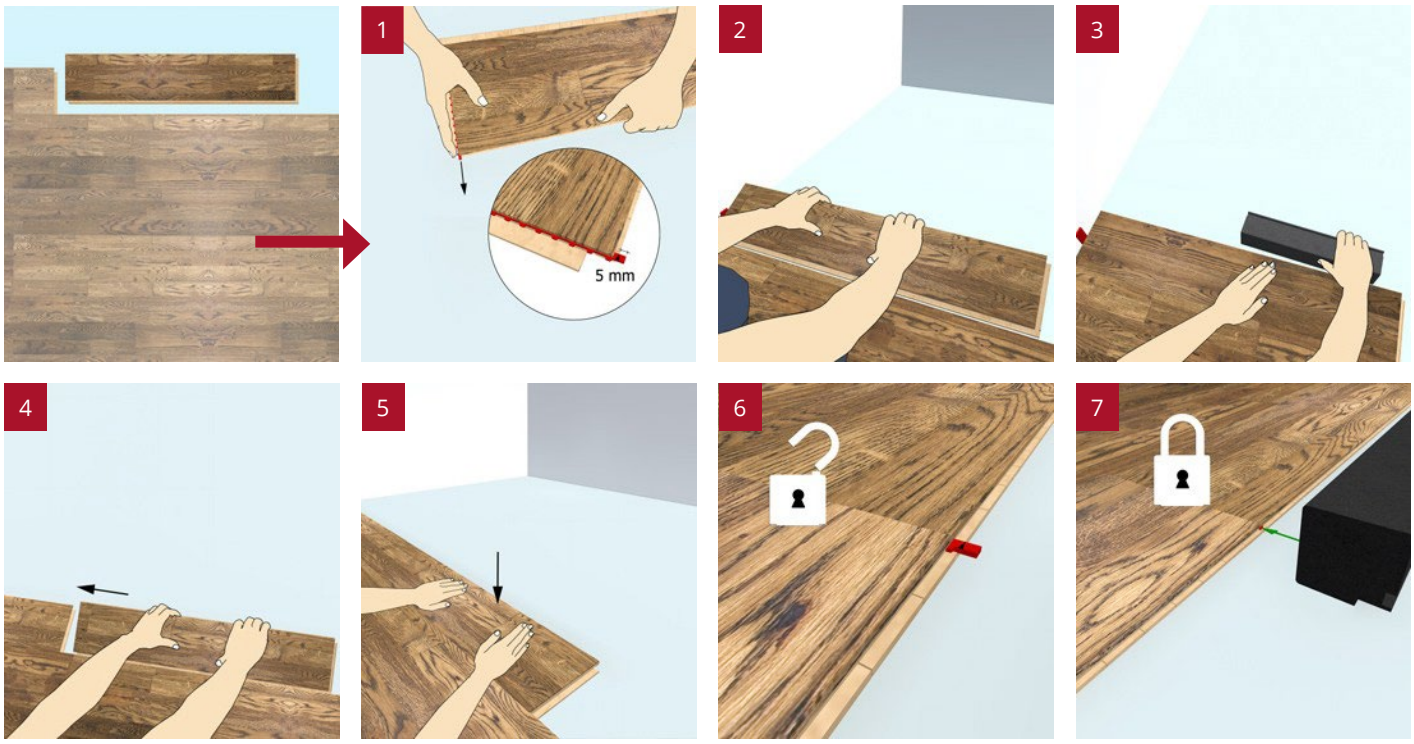




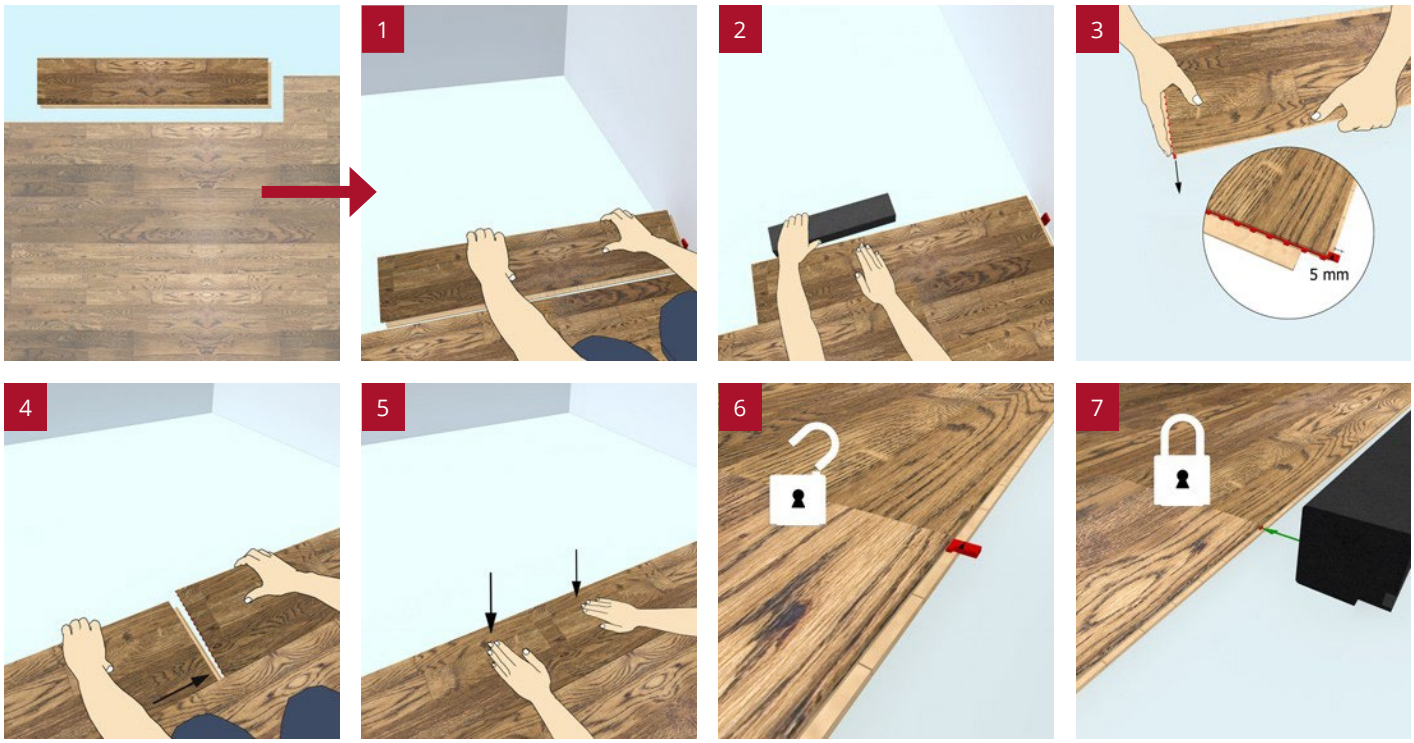
Normal Installation, Reversed Row Direction.



Backward Installation

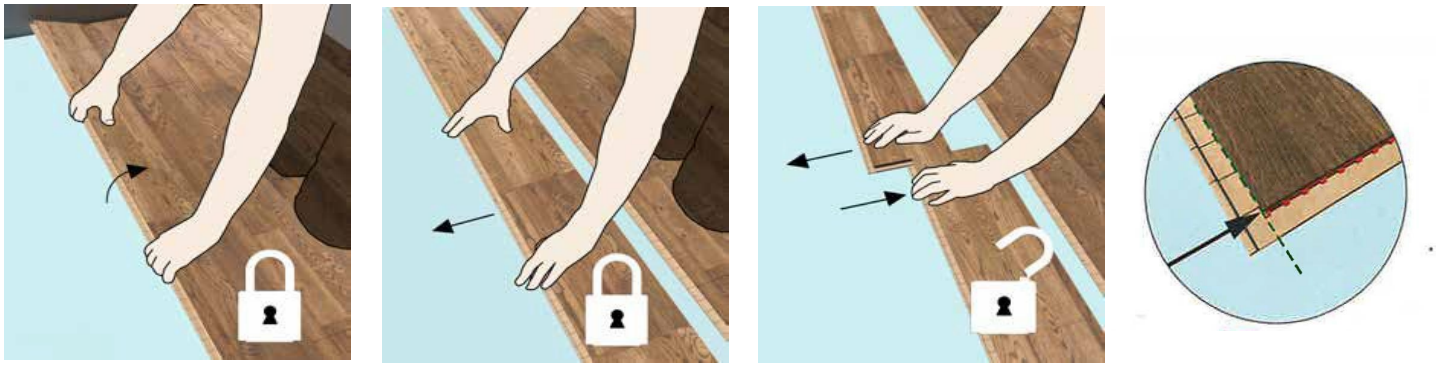


Backward Installation, Reversed Row Direction



Disengaging Boards

Boards can be laid in all directions if necessary. Woodloc® 5S dismantles easily. This enables easier planning for difficult installation areas. To disengage locked boards, first detach the entire row and place it on flat surface. Push or tap in opposite directions until boards unlock. Move the pin back to its original position (flush with the wear layer on the groove side).



Clean-up and Maintenance

AFTER INSTALLATION

Remove expansion spacers and reinstall base and/or quarter round moldings to cover the expansion gap.
Use a soft brush vacuum attachment or soft broom to remove dust and dirt regularly during installation and upon completion. When installation is complete, vacuum the floor and clean it with Kährs Cleaner and a microfiber mop or cloth. NEVER wet mop floor.

See *Kährs Floor Care Guide & Lifetime Guarantee* for full details (available at www.kahrs.com).

Please visit www.kahrsstore.com for maintenance supplies.

Note: **Oil Finish Floors must be oiled with Kährs Satin Oil immediately after installation and prior to use**.

Instructions for the board replacement can be found at www.kahrs.com

Vacuum or clean floor regularly using dry dust mop or cloth, use Kährs Wood Floor Cleaner as needed. Do not use oil soap or water-emulsion, self-polishing waxes or water mixed with vinegar. NEVER wet mop floor. Place Floor Protectors on furniture legs to prevent damage.

See *Kährs Floor Care Guide & Lifetime Guarantee* for full details (available at www.kahrs.com).

Relative Humidity in the room

Maintain Relative Humidity (RH) within the **30–60% range** to prevent climate-related damage and movement in the wood floor, such as cracks, gaps, noise, or cupping. In summer, dehumidification may be necessary, while in winter it may be required to increase indoor humidity. Exposure to RH levels that are too high or too low can cause permanent deformation of the flooring. Even in unoccupied spaces, it is essential to maintain proper temperature and humidity. This is particularly important during new construction or major renovation projects.

Damage caused by failing to maintain the proper humidity levels is not manufacturing related and will void the floor's warranty.

It is not only wood floors that thrive best, but also, we humans get better indoor air with a relative humidity inside this range.

Adhesive Tape on Kährs Floors:
The use of adhesive tape on any Kährs floor for any reason is not recommended and is not covered in our warranty. After installation, if a protective cover over the floor is needed, cover the floor completely. Do not use plastic. Any protective covering should be taped, using a low-adhesion tape, to base or shoe moldings. When taping paper or sheets together, tape them to each other, not to the floor. NEVER apply tape to the finished flooring. Do not allow the floor covering to sit on the installed floor for an extended period.

Additional Finishing Coating:
For additional wear protection, a waterborne urethane finish is compatible with Kährs factory finishes. Contact Arboritec or Bona Kemi USA, Inc. for recommended products, applications, and warranty information. Follow manufacturer's instructions for re-coating a pre-finished wood floor. Kährs does not guarantee the performance and/or durability of these products.

Color change
Wood is a natural material that gradually matures to its natural color, this change occurs fastest at first. To avoid an uneven color change, carpets should not be laid on the floor during the first months after installation of the parquet floor.

NOTES

Kährs International
317 Northlake Blvd Suite 1016
Altamonte Springs, FL 32701
Tel: 1.800.800.5247
Fax: 407.260.9933
info@kahrs.com www.kahrs.com

Kährs®

INSTALLATION GUIDE KÄHRS WOOD FLOORING GLUED-DOWN INSTALLATION

KÄHRS WOODLOC®5S
KÄHRS WOODLOC®5G

Kährs 15mm ORIGINAL Collection	5/8″
Kährs 7mm LIFE Collection	1/4″
Kährs 10mm LIFE Collection	3/8″
Kährs 13mm AVANTI Collection	1/2"

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Jobsite and Subfloor Preparation

Note: These directions are based on industry standards and best practices. Warranty coverage may be lost due to failure to strictly follow all installation instructions and recommendations and/or the use of improper materials or tools. For complete warranty information visit www.kahrs.com or call 1-800-800-5247.
READ ALL INSTRUCTIONS CAREFULLY!
THANK YOU FOR CHOOSING KÄHRS FLOORING!

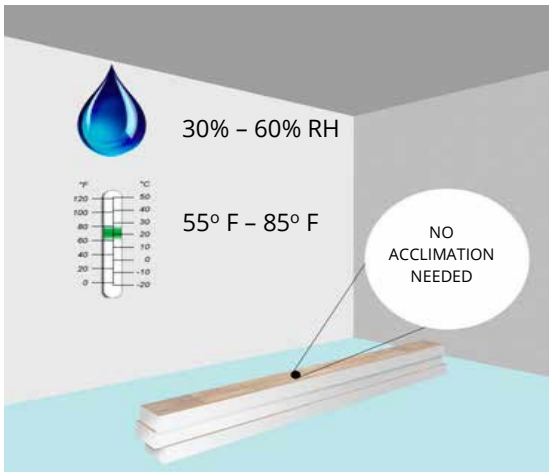
Owner/Installer Responsibility

The installer and customer must both ensure the product meets their expectations regarding appearance, quality, and grade prior to installation. The installer must use reasonable selectivity and set aside or cut off pieces with deficiencies, whatever the cause. Should an individual piece be doubtful as to grade, manufacture, or factory finish, the installer should not use the board.
Prior to installation of Kährs flooring, the installer must ensure that the jobsite and subfloor meet the requirements of these instructions. Flooring failure resulting from unsatisfactory jobsite and/or subfloor conditions is not covered under warranty.
Any decision not to proceed must occur within the first 10% or 100 square feet of flooring installed, whichever is less. Once installed, any board is considered as having been accepted by the installer and owner, even if owner is absent at the time of installation. Please see *Kährs Wood Floor Guarantee* document for more information.

Owner must maintain the flooring in accordance with Kährs Wood Floor Care guidelines, including maintaining recommended temperature and relative humidity levels year-round.
Always store the hardwood flooring in dry conditions and do not open the cartons until just before installation.

JOBSITE CONDITIONS

Interior Conditions



- Kährs products must be installed only in a climate-controlled environment, with doors and windows installed and operational HVAC system.
- Acclimation is not necessary if the engineered flooring has been stored in a climate-protected environment, and if the jobsite is maintained within the manufacturer's recommended temperature and humidity range prior to and during installation.
  If these conditions cannot be confirmed or maintained, acclimate the flooring in the installation space for a minimum of 24 hours.
- Wood flooring should be one of the last items installed for any new construction or remodel project. All work involving water or moisture should be completed before flooring installation.
- Relative Humidity at the job site must be, and remain, in the range of **30% - 60%.** Temperature setting must be, and remain, in normal operating range of **55°F - 85°F**. Test and record (photograph) RH readings in each area where Kährs products will be installed.
- *Warning* - humidity levels below 30% will likely cause movement in the flooring, including possible dry cupping, face checking and gapping between planks.

Exterior conditions

- Carefully inspect the outside surroundings for improper drainage and predictable or obvious sources of moisture. The yard should be graded (at least 6" in 10 ft.) to slope away from the foundation. Be sure that gutters and eaves sufficiently prevent rain from penetrating the foundation.
- Under the house: In homes with crawl space or pier-beam foundations, foundation vents must provide cross-ventilation with no dead air space. If excessive moisture exists underneath the house, you must lay a 6-mil black polyethylene moisture barrier on the ground in the crawl space below the installation area.
- Basement should be free of all moisture and be weather tight. Relative Humidity of basements should not be more than 10% higher than the upper floors.
- Exterior site/structure issues are NOT the responsibility of the flooring contractor/installer or Kährs.

SUBFLOOR REQUIREMENTS

Moisture and testing

The installer must confirm subfloor moisture conditions are suitable before installing any hardwood floor.
Wood subfloor moisture must read under **12%** and differential between boards and subfloor must be less than 4%.
Concrete subfloor must be fully cured and at least 60 days old. Evaluate several areas, especially near exterior walls and walls containing plumbing. Document and keep all results.
Acceptable test methods for concrete subfloor moisture content include:
• TRAMEX Concrete Moisture Encounter Meter: Moisture readings should not exceed **4.5** on the upper scale. Concrete Moisture Meters give qualitative reading results-not quantitative ones. These results are a quick way to determine if the further testing is needed.
Note: The following tests are required in residential/commercial applications. Either or both tests are acceptable.
• Calcium Chloride Test (ASTM F 1869): The maximum moisture transfer must not exceed **3 lbs**./1000 ft^2 in 24 hrs. (2lbs./1000 ft^2 for Radiant Heat installations).
• **RH** Levels in Concrete Using In-situ Probes (ASTM F 2170) should not exceed **75%**.

Preparation and specifications

A floor can only be as good as the subfloor allows. All subfloors must be **clean, structurally sound, dry, and flat**. Address any movement, delamination, squeaks/noise, water damage, physical damage, etc. prior to install. Use vacuum cleaner to remove any debris and dirt.
Subfloor flatness is different from 'level'. Level is typically not necessary, but it is extremely important to level the subfloor to achieve the **flatness** of an 1/8″ in an 8′ radius. Check this by using the edge of a Kährs plank to find any high or low spots. Sand or grind high areas or joints. Fill low areas with a latex additive cementitious leveling compound of 3,000-PSI minimum compressive strength patch and underlayment. For more information how to correct subfloor flatness, see NWFA Installation Guidelines.

Note: Subfloor deflection and movement are the main cause of squeaking floors. If subfloor deflection exists measures must be taken to correct. Check NWFA guidelines for joist spacing and plywood thickness.

Please refer to 'NWFA Wood Flooring Installation Guide' for more information on subfloor types and recommendations.

For installations over subfloors with Radiant Heat, please refer to *'Kährs Radiant Heat Special instructions'* guide at www.kahrs.com

Techniques

Kährs flooring can be directly glued to concrete or wood subfloors on or above the ground level.
If Acoustical Membrane is needed, use Kährs ECO (no moisture barrier) or QuietStride underlayment products.

Installing Kährs floors with the Glued-down method requires no expansion breaks in the floor and is not limited in size. A 1/2" gap at perimeter walls is recommended to allow engagement of last rows.

Adhesive Tape on Kährs Floors

The use of adhesive tape on any Kährs floor for any reason (i.e., to fasten temporary protection) is not recommended and is not covered in our warranty.

WARNING! INSTALLERS
WARNING: Drilling, sawing, sanding or machining wood products can expose you to wood dust, a substance known to the State of California to cause cancer. Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection. For more information go to www.P65Warnings.ca.gov/wood. Precautionary Measures: If power tools are used, they should be equipped with a dust collector. If high dust levels are encountered, use an appropriate NIOSH-designated dust mask. Avoid dust contact with eye and skin. First Aid Measures in Case of Irritation: In case of irritation, flush eyes or skin with water for at least 15 minutes.

UNDERLAYMENTS

Kährs QuietStride or Eco (no moisture barrier)

Direct Glue-Down ("double stick"): Install QuietStride or Eco (no moisture barrier attached) wall to wall, butt all seams together (do not tape seams), directly adhering to subfloor with a premium multi-purpose adhesive. Fully adhere Kährs flooring to underlayment using premium wood adhesive.
Note: an approved concrete sealer must be used if calcium chloride test exceeds 3lbs or in situ RH test exceeds 75% RH as recommended by the manufacturer of that product.

Direct Glue-Down over "float-in" underlayment (Quietstride only): First install 6 mil polyethylene plastic loose-laid, seams over-lapped 8". Run plastic up wall 2" (trim excess after installation, before installing trim). Loose-lay QuietStride on top of plastic, wall to wall, butt all seams together (do not tape seams). Fully adhere Kährs flooring to underlayment using premium wood adhesive and trowel.
Note: Using the direct glue-down over a floating underlayment method does not eliminate natural wood movement. A ½-inch expansion gap must always be maintained around the entire perimeter of the installation.

Important: Kährs does not guarantee the performance of any non-Kährs branded underlayment.

GLUE DOWN INSTALLATION of Woodloc® 5S/5G

For subfloor and environmental specifications see Jobsite Conditions / Subfloor Requirements section or visit www.kahrs.com

Important Installation Notes

- Do not open packages until ready to begin installation! Kährs flooring is sealed at the factory with a moisture content of 7%.
- Inspect each board as you begin to install.
  It is the installer's responsibility to be aware of the grade, Relative Humidity of the room, and Moisture Content of the subfloor. You should check that each plank is free of damage or manufacturing defects. If faulty products are discovered regarding, for example, appearance or other design elements that do not correspond to what is described in the product sheet, it is important that a complaint is made before you install the floor. Defective products should be placed aside for later replacement. Boards with obvious faults that are detectable before installation must not be used.

  When a floorboard has been laid, regardless of whether you lay it yourself or hire a floor installer, you as a buyer are also considered to have approved it.
- When possible, preselect and set aside boards that blend best with all horizontally mounted moldings (reducer/stair nose etc.) This will assure a uniform final appearance. Install these boards adjoining the moldings.
- Always install the floor from several cartons at the same time to ensure good color and shade mixture.
- Cut door jambs and casings after subfloor leveling is completed to avoid difficult scribe cuts.
- Do not use rubber mallets or hammers on the finished edge of the floors.
- Kährs Flooring is approved for installations in ½ bathrooms only (no bathrooms including showers or bathtubs).
- Recommendations for adhesives should come directly from the adhesive manufacturer of your choice. Kährs advises using a high-quality hardwood flooring adhesive. Always follow the adhesive manufacturer's instructions regarding proper use, application methods, flash/open time, working time, and warranty coverage.
- **Read '*Woodloc® 5G 5S Float-In Instructions*' to familiarize yourself with proper end joint locking techniques.**

Glue-Down Installation for Woodloc® 5S/5G

Step 1 - Layout

1.1 Using starting wall as reference, snap chalk line on subfloor at distance X from wall as shown in Fig. 1.1. To calculate X, engage two boards together (refer to Step 2.1 on locking procedure) and measure total width, including exposed groove, then add 1/2".

1.2 Align straight edge (Kährs board or any solid material with straight edge) with chalk line and secure to subfloor (Fig. 1.2)

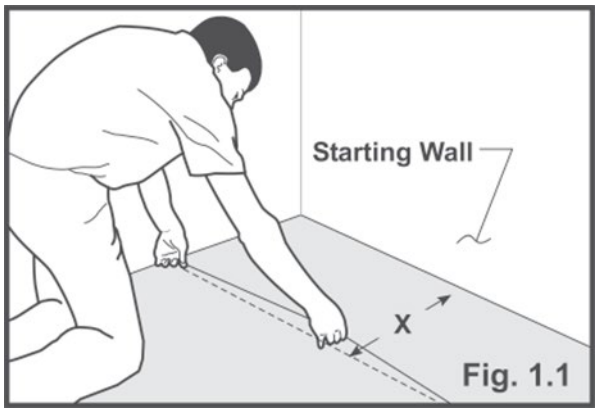


Fig. 1.1

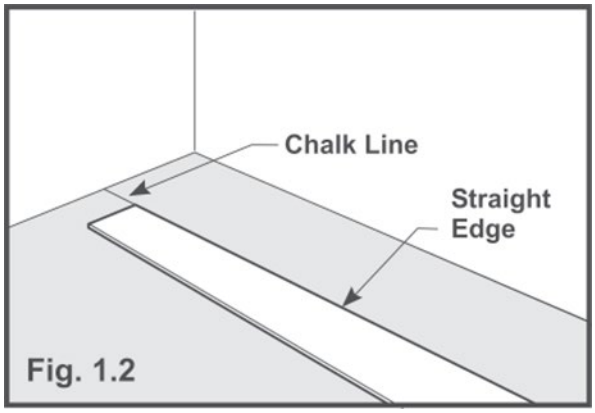


Fig. 1.2

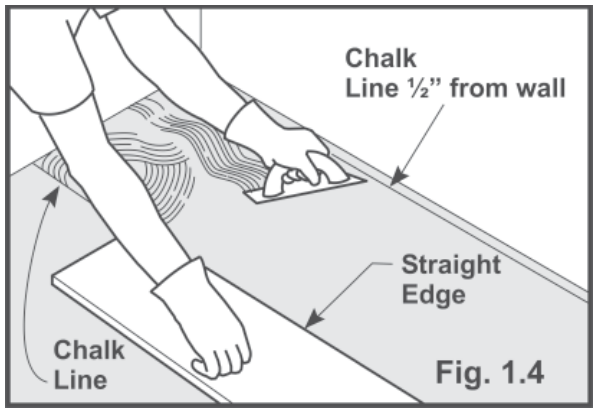


Fig. 1.4

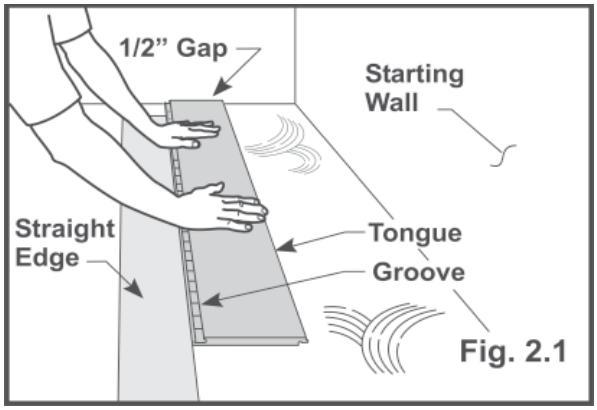


Fig. 2.1

1.3 Measure 1/2" from starting wall and snap another chalk line (Fig. 1.4).

1.4 Spread adhesive in area between straight edge and second chalk line (Fig. 1.4). Use only as much adhesive as can be used during manufacturer's open time of adhesive.

Step 2 - Installation

2.1 Start with tongue side facing wall and long groove side directly up against straight edge as seen in Fig. 2.1 Lay board into adhesive. Remember to allow 1/2" expansion gap at wall.

2.2 Kährs Woodloc® 5S employs a locking pin (A, Fig. 2.2) to engage short end of boards. Ensure locking pin is in proper alignment - parallel to board edge and flush or slightly protruding(1/16" or less) from wear layer on long side of board (B, Fig. 2.2).
Woodloc® 5G locking pin is automatically pre-set.

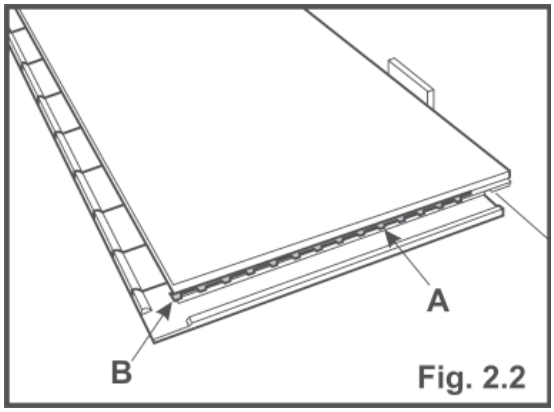


Fig. 2.2

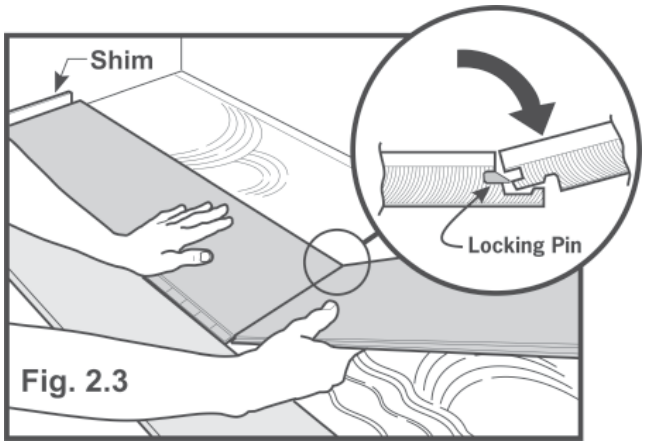


Fig. 2.3

2.3 Hold second board against first board at approx. 30º angle (Fig. 2.3). If locking pin is not positioned correctly board will not engage. Lay second board flat into adhesive.

Note: Woodloc® 5G products have a pre-set locking pin which does not need to be engaged as noted above for Woodloc 5S products. When 5G boards are engaged properly at the end joints you will hear an audible click, this is indication that the boards are locked.

2.4 Engage locking pin to secure second board. Note: With glue-down installations of Woodloc® 5S, there are a few methods for engaging locking pin (note: these methods n/a for WL 5G products):

a) Use standard size utility knife or a flat screwdriver to engage pin as shown in Fig. 2.4.2. With knife blade in retracted position, run knife along inside of groove to push locking pin into locked position.

b) Alternate Method: After installation of entire first row, boards in subsequent rows will engage locking pins of previous row as they are installed. Refer to Fig. 2.5. Lay entire first row and cut end board to correct length (allow for expansion gap).

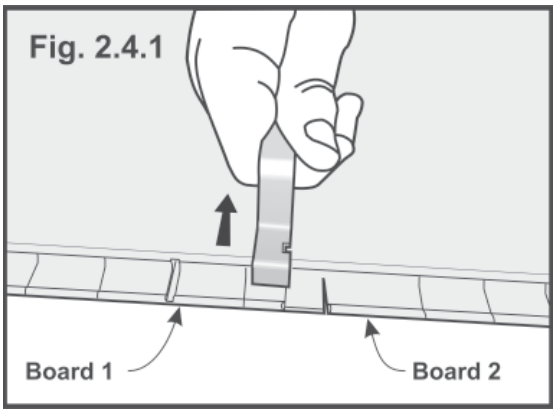


Fig. 2.4.1

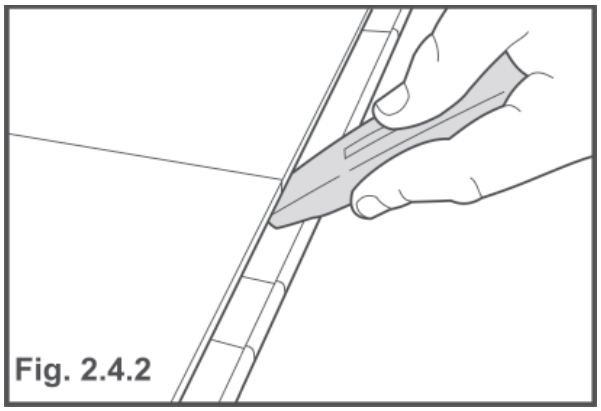
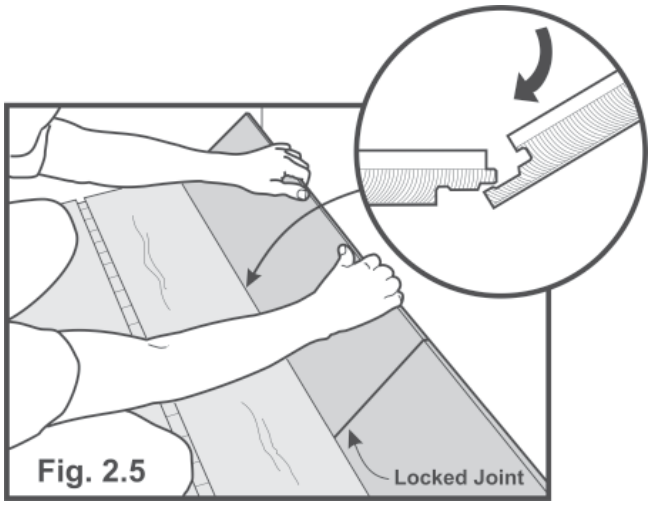
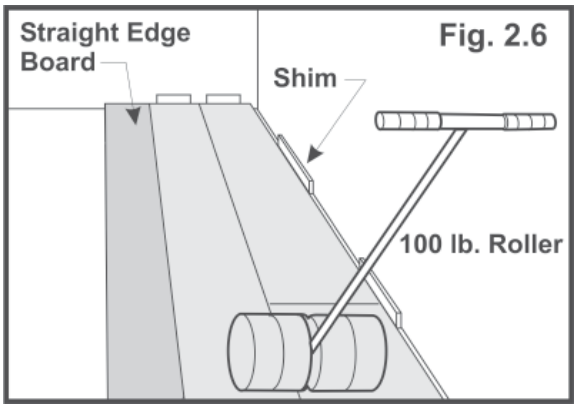


Fig. 2.4.2

2.5 On dry, flat surface, lay out entire second row starting with cut-off piece from last board in first row, if possible. Be sure to allow for expansion gaps at both ends. Ensure end joint stagger from row to row is a minimum of 25% of boards length. Lock short side of each board as described in Steps 2.2 through 2.4. With groove side facing first row, hold entire row at approx. 20º - 30º angle and press inward, completely engaging long side joint (Fig. 2.5). Now lay entire row flat into adhesive. If necessary, use Last Board Puller to assist with engagement of long joint. . If necessary, use Last Board Puller to assist with engagement of long joint.



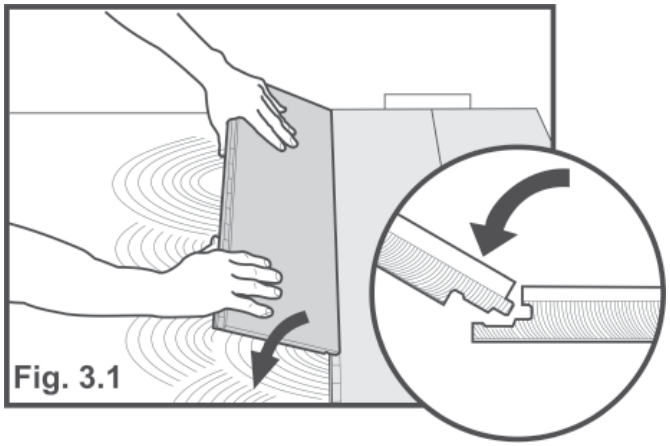


2.6 Once first two rows are installed, ensure expansion gap between walls and boards are shimmed securely. If recommended by adhesive manufacturer, roll flooring with 100# roller to ensure contact between flooring and subfloor (Fig. 2.6). Place weight (e.g., unopened cartons of boards) along perimeters until adhesive sets up. Then remove straight edge board.

Step 3 - Subsequent Rows

3.1 After starting two rows are firmly in place, apply adhesive in a "wet lay" method. Do not apply more adhesive than can be used within open time of adhesive.

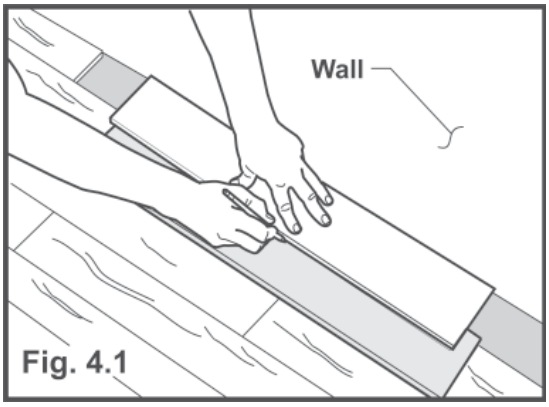
3.2 Start each row with cut-off end of last board from previous row (Fig. 3.1). Immediately place flooring in wet adhesive and proceed with installation, engaging locking pins of each board as you proceed.

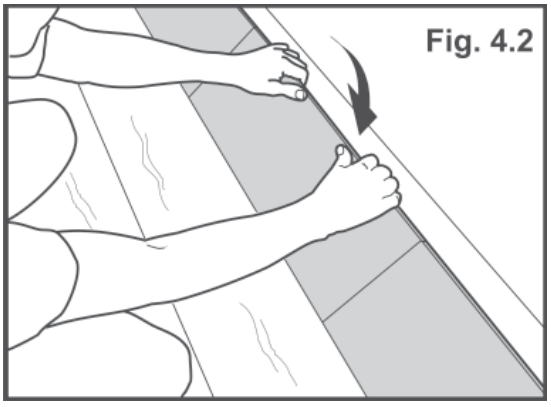


Step 4 - Custom Fitting Last or First Row

4.1 Since last row will generally not fit perfectly, scribe the entire row and cut to fit, allowing1/4" (minimum) expansion gap (Fig. 4.1)

4.2 After sawing last (or first) row to shape, engage and lock all end joint locking pins, lift entire row and install to adjacent row (Fig. 4.2).





Installation Tips

- After first three rows are laid, have one installer work on installing flooring while others spread adhesive and cut boards as needed.
- Installation of Woodloc® 5S/5G is easier while standing/working on top of already-installed flooring (Fig. 5). Working in this manner lessens the chance of accidentally transferring adhesive onto subfloor surface, thereby reducing clean-up time.

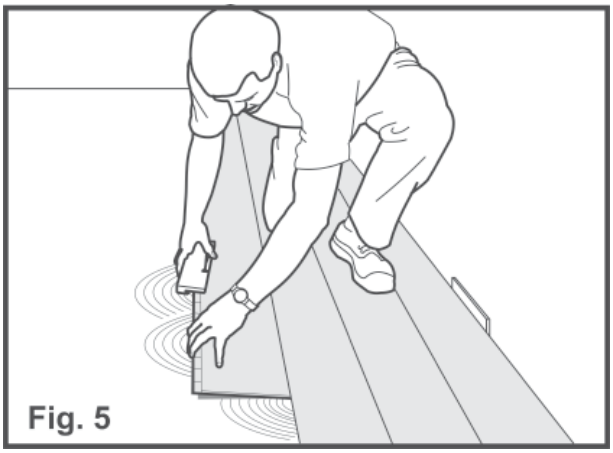


Fig. 5

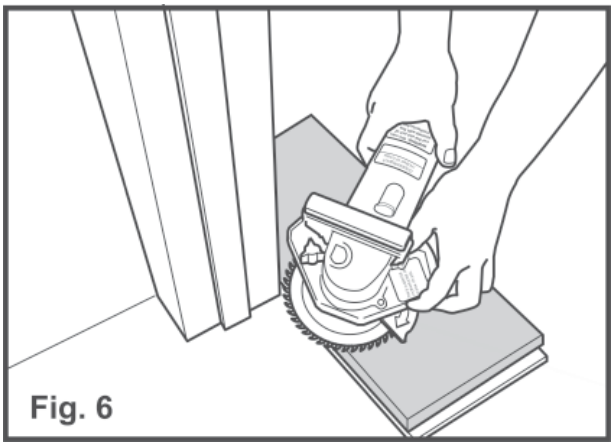


Fig. 6

Doorway Installation

- If doorjamb (or similar) needs to be cut, use piece of board and piece of Underlayment to obtain correct height (Fig. 6). If new board needs to be tapped into place, be sure to protect edges with scrap of wood before tapping with handblock.
- If boards cannot be easily angled under door frame or similar, cut away locking edge as shown in Fig. 7, then apply Landobond adhesive and install board as shown in Fig. 8.

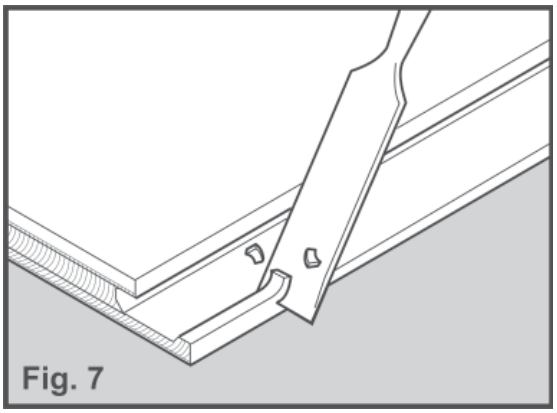


Fig. 7

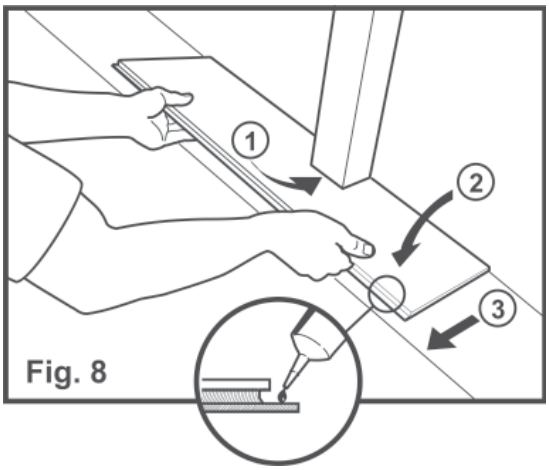


Fig. 8

Clean-up and Maintenance

AFTER INSTALLATION

Note: **Oil Finish Floors must be oiled with Kährs Satin Oil immediately after installation and prior to use**.

Immediately clean any adhesive spilled on wood flooring during and right after installation.

See *Kährs Floor Care Guide & Lifetime Guarantee* for full details (available at www.kahrs.com).

Please visit www.kahrsstore.com for maintenance supplies.

Vacuum or clean floor regularly using dry dust mop or cloth, use Kährs Wood Floor Cleaner as needed. Do not use oil soap or water-emulsion, self-polishing waxes or water mixed with vinegar. NEVER wet mop floor. Place Floor Protectors on furniture legs to prevent damage.

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Maintain Relative Humidity (RH) within the **30–60% range** to prevent climate-related damage and movement in the wood floor, such as cracks, gaps, noise, or cupping. In summer, dehumidification may be necessary, while in winter it may be required to increase indoor humidity. Exposure to RH levels that are too high or too low can cause permanent deformation of the flooring. Even in unoccupied spaces, it is essential to maintain proper temperature and humidity. This is particularly important during new construction or major renovation projects.

Damage caused by failing to maintain the proper humidity levels is not manufacturing related and will void the floor's warranty.

Not only do wood floors thrive best with a relative humidity in this range, but also us, as humans thrive due to better indoor air quality.

Adhesive Tape on Kährs Floors:

The use of adhesive tape on any Kährs floor for any reason is not recommended and is not covered in our warranty. After installation, if a protective cover over the floor is needed, cover the floor completely. Do not use plastic. Any protective covering should be taped, using a low-adhesion tape, to base or shoe moldings. When taping paper or sheets together, tape them to each other, not to the floor. NEVER apply tape to finished flooring. Do not allow the floor covering to sit on the installed floor for an extended period.

Additional Finishing Coating:

For additional wear protection, a waterborne urethane finish is compatible with Kährs factory finishes. Contact Arboritec or Bona Kemi USA, Inc. for recommended products, application, and warranty information. Follow manufacturer's instructions for recoating a prefinished wood floor. Kährs does not guarantee the performance and/or durability of these products.

Color change

Wood is a natural material that gradually matures to its natural color, this change occurs fastest immediately after installation. To avoid uneven color change, carpets should not be laid on the floor during the first few months after installation of the floor.

NOTES

Kährs International
317 Northlake Blvd Suite 1016
Altamonte Springs, FL 32701
Tel: 1.800.800.5247
Fax: 407.260.9933
info@kahrs.com www.kahrs.com

T&G Installation Instructions

Applicable to:

ESTATE COLLECTION

Kährs International
317 Northlake Blvd. Suite 1016
Altamonte Springs, FL 32701
Tel: 1.800.800.5247Fax: 407.260.9933
info@kahrs.com www.kahrs.com

NOTES

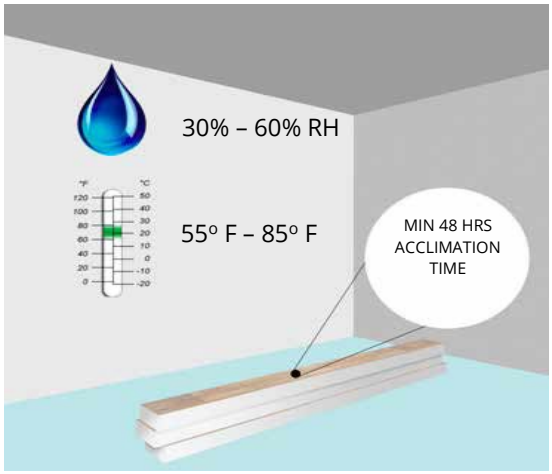
Note: These directions are based on industry standards and best practices. Warranty coverage may be lost due to failure to strictly follow all installation instructions and recommendations and/or the use of improper materials or tools. For complete warranty information visit www.kahrs.com or call 1-800-800-5247.
READ ALL INSTRUCTIONS CAREFULLY!
THANK YOU FOR CHOOSING KÄHRS FLOORING!

Owner/Installer responsibility

The installer and customer must both ensure the product meets their expectations regarding appearance, quality, and grade prior to installation. The installer must use reasonable selectivity and set aside or cut off pieces with deficiencies, whatever the cause. Should an individual piece be doubtful as to grade, manufacture, or factory finish, the installer should not use the board.
Prior to installation of Kährs flooring, the installer/owner must ensure that the jobsite and subfloor meet the requirements of these instructions. Flooring failure resulting from unsatisfactory jobsite and/or subfloor conditions is not covered under warranty.
Any decision not to proceed must occur within the first 10% or 100 square feet of flooring installed, whichever is less. **Once installed, any board is considered as having been accepted by the installer and owner, even if the owner is absent at the time of installation**. Please see *Kährs Wood Floor Guarantee document* for more information.
Owner must maintain the flooring in accordance with Kährs Wood Floor Care guidelines, including maintaining recommended temperature and relative humidity levels year-round.
Always store the hardwood flooring in dry conditions and do not open the cartons until just before installation.

JOBSITE CONDITIONS

Interior Conditions



- Kährs products must be installed only in a climate-controlled environment, with doors and windows installed and operational HVAC system.
- Wood flooring should be one of the last items installed for any new construction or remodel project. All work involving water or moisture should be completed before flooring installation.
- Flooring should be allowed to **acclimate for a minimum of 48 hrs.** or until conditions are at normal living conditions and meet minimum installation requirements for moisture content. Store the wood flooring in the unopened boxes at the installation area. Do not store the boxes of flooring directly on concrete. DO NOT OPEN more than a few boxes in advance of installation and only the number of boxes that will be installed within the next few hours. Only open enough boxes to ensure a good mix of lengths and color.
- **Relative Humidity** at the job site must be, and remain, in the range of **30% - 60%.** Temperature setting must be, and remain, in normal operating range of **55ºF - 85ºF**. Test and record (photograph) RH readings in each area where Kährs products will be installed.
- Warning - humidity levels below 30% will likely cause movement in the flooring, including possible dry cupping, face checking and gapping between planks.

Exterior conditions

- Carefully inspect the outside surroundings for improper drainage and predictable or obvious sources of moisture. The yard should be graded (at least 6" in 10 ft.) to slope away from the foundation. Be sure that gutters and eaves sufficiently prevent rain from penetrating the foundation.
- Under the house: In homes with crawl space or pier-beam foundations, foundation vents must provide cross-ventilation with no dead air space. Vents should be located throughout the foundation with an opening area equal to 1.5% of the square-foot area within the crawl space. If excessive moisture exists underneath the house, you must lay a 6-mil black polyethylene moisture barrier on the ground in the crawl space below the installation area.

- The basement should be free of all moisture and be weather tight.
- Exterior site/structure issues are NOT the responsibility of the flooring contractor/installer or Kährs.

SUBFLOOR REQUIREMENTS

Moisture levels

The installer must confirm subfloor moisture conditions are suitable before installing any hardwood floor.
Wood subfloor moisture must read under **12%** and differential between boards and subfloor must be less than 4%.
Concrete subfloor must be fully cured and at least 60 days old. Evaluate several areas, especially near exterior walls and walls containing plumbing. Document and keep all results.
Acceptable test methods for concrete subfloor moisture content include:
• TRAMEX Concrete Moisture Encounter Meter: Moisture readings should not exceed **4.5** on the upper scale. Concrete Moisture Meters give qualitative reading results-not quantitative ones. These results are a quick way to determine if further testing is needed.
Note: The following tests are required in residential/commercial applications. Either or both tests are acceptable.
• Calcium Chloride Test (ASTM F 1869): The maximum moisture transfer must not exceed **3 lbs**./1000 ft^2 in 24 hrs. (2lbs./1000 ft^2 for Radiant Heat installations).
• **RH** Levels in Concrete Using In-situ Probes (ASTM F 2170) should not exceed **75%**.

Preparation and specifications

A floor can only be as good as the subfloor allows. All subfloors must be **clean, structurally sound, dry, and flat**. Address any movement, delamination, squeaks/noise, water damage, physical damage, etc. prior to install. Use a vacuum cleaner to remove any debris and dirt.
Subfloor flatness is different from 'level'. Level is typically not necessary, but it is extremely important to level the subfloor to achieve the **flatness** of **3/16" in an 8' radius**. Check this by using the edge of a full length Kährs plank to find any high or low spots. Sand or grind high areas or joints. Fill low areas with a latex additive cementitious leveling compound of 3,000-PSI minimum compressive strength patch and underlayment. For more information on how to correct subfloor flatness, see NWFA Installation Guidelines.

Note: Subfloor deflection and movement are the main cause of squeaking floors. If subfloor deflection exists measures must be taken to correct. Check NWFA guidelines for joist spacing and plywood thickness.

For subfloor and environmental specifications see Jobsite Conditions / Subfloor Requirements instructions at www.kahrs.com

RADIANT HEAT. Only RED OAK products are warranted for installation **over hydronic radiant heat**, HICKORY and MAPLE are not recommended for this type of installation. Estate Collection is not warranted over electric radiant heat systems. Slight surface checking (cracking), particularly at the ends of planks, should be expected in installations over radiant heat and do not constitute a product failure.
For installations over subfloors with Radiant Heat, please refer to *'Kährs Subfloor Prep and Radiant Heat Instructions'* guide at www.kahrs.com

WARNING! INSTALLERS

WARNING: Drilling, sawing, sanding or machining wood products can expose you to wood dust, a substance known to the State of California to cause cancer. Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection. For more information go to www.P65Warnings.ca.gov/wood.
Precautionary Measures: If power tools are used, they should be equipped with a dust collector. If high dust levels are encountered, use an appropriate NIOSH-designated dust mask. Avoid dust contact with eye and skin.
First Aid Measures in Case of Irritation: In case of irritation, flush eyes or skin with water for at least 15 minutes.

Important Installation Notes

- Installer's Responsibility: Be aware of the grade, relative humidity of the room, and moisture content of the subfloor. Check that each plank is free of damage or manufacturing defects. Set aside any unusable boards for later replacement.
- Pre-selection of Boards: When possible, preselect and set aside boards that blend best with all horizontally mounted moldings (reducer/stair nose, etc.). This will ensure a uniform final appearance. Install these boards adjoining the moldings.
- Mixing Boards: Always install the floor from several cartons at the same time to ensure a good color and shade mixture.
- Starter Boards: Each carton of flooring could have up to 2 pieces that can be used to start or end a row. One end is cut straight and does not have a profile. Use these boards during installation.
- Cutting Door Jambs and Casings: Cut door jambs and casings after subfloor leveling is completed to avoid difficult scribe cuts.
- Avoiding Damage: Do not use rubber mallets or hammers on the finished edge of the floors.
- Bathroom Installations: Kährs Flooring is approved for installations in ½ bathrooms only (no bathrooms including showers or bathtubs).
- Jobsite/Subfloor Preparation: See the Jobsite/Subfloor Preparation section and follow all requirements before installation. Vacuum the subfloor thoroughly.
- Adhesive Recommendations: Recommendations for adhesives should come directly from the adhesive manufacturer of your choice. Kährs recommends choosing a premium quality hardwood flooring adhesive. Follow the adhesive manufacturer's instructions for proper use of the adhesive, application methods, flash-time, working-time, warranties, etc.

Techniques

Estate Collection flooring can be installed on, below and or above grade level, but should not be installed in full bathrooms or other wet environments.

GLUE DOWN INSTALLATION

1. Determine starting wall and direction to lay boards. An outside wall is typically straight and square with the room. Wood should be installed perpendicular to the joists. In cases of existing wooden floors, boards should be laid crosswise or at a 45-degree angle.
2. Begin installing the first row in the right corner of the base wall. Install the first board so the short grooved side is against the expansion shims to your right and the long grooved length of the board is against the expansion shims in front of you.
3. Maintain expansion gap of 3/8" to 1/2" between first board and the wall by using spacers regularly along the length of the wall. Determine the straightness of wall by snapping a chalk line. If starting wall is not straight, make notation on first row and saw to shape.
4. Connect the end of the second board to the end of the first board, making sure the boards are tightly connected and firmly positioned against the shims. Use the hammer/rubber mallet and tapping block to tap the tongue end of the second board to ensure a tight fit. Never use the hammer or rubber mallet directly on the flooring as this will cause damage to the board.
5. Continue placing additional boards moving right to left using the same procedure until the first row is complete.
6. You will need to cut off the end of the final board, save the remaining piece for the next row as long as it is at least 8" long. Use the last board Puller to ensure the last board is tight against the preceding board. Place shims between the end of the last board and the wall. Use the shims to wedge the row tightly, rendering it immobile.
7. Once the first row has been cut and fit, remove the flooring and set it aside. Snap a chalk line the face width of the wood flooring plus 3/8" to 1/2" for expansion space out from the starting wall. Starting from the edge of the chalk line, apply an even layer of adhesive as instructed by the adhesive manufacturer. Only spread adhesive the width and length of the one row that was dry fit.

8. **Note On Adhesive:** Follow the adhesive manufacturer's instructions for use in this application. Wear rubber gloves and proceed carefully during adhesive application. Cured mastic is very hard and sometimes impossible to remove from the flooring as well as the tools. Do not allow any spilled or excess adhesive to remain anywhere but between the boards and the subfloor at any time during the installation. Clean up spills immediately as recommended by the adhesive manufacturer. The flooring manufacturer will not be responsible in any way for adhesive that is not removed from the hardwood flooring immediately. Any damage to the flooring caused by the adhesive allowing it to cure on the surface will be the sole responsibility of the installation mechanic.
9. Re-install the pre-cut boards from the dry fit as follows. Connect the end of the second board to the end of the first board, making sure the boards are tightly connected and firmly positioned. Use the hammer/rubber mallet and tapping block to tap the tongue end of the second board to ensure a tight fit. Never use the hammer or rubber mallet directly on the flooring as this will cause damage to the board.
10. Continue placing additional boards moving left to right using the same procedure until the first row is complete.
11. Place shims between the end of the last board and the wall. Use the shims to wedge the row tightly rendering it immobile. Lightly weight the first row to ensure proper contact with the adhesive.
12. Stagger end joints (at least 8") and randomly install different lengths to ensure a natural appearance. Do not create discernible patterns such as "H" or "steps". Select boards to create a uniform appearance without clusters of short lengths or sections of light or dark planks. Place aside any boards that have visual defects or are not consistent with the grade being installed.
13. The end joint must be at least 8" from the end joint in the row before it. A minimum of one end joint is required in every row, regardless of width (e.g. hallways).
14. Trowel adhesive onto the subfloor as recommended by the adhesive manufacturer, place the next board in position, match the tongue and groove at the end only, then, beginning at the opposite end of the board, and tap the board onto the previous row with the tapping block. Move the tapping block back toward the right side of the board until you get near the connections with the previous board. Before you finish tapping the board onto the previous row, you must be sure the end joint is tight. If the end joint is not completely tight you will not be able to do so once the long seam is tight.
15. Continue process across the room. The last board should be sawn to an appropriate width allowing for 3/8" to 1/2" expansion space against walls and all vertical obstructions.
16. Clean up all excess adhesive from the surface of the installed flooring as recommended by the adhesive manufacturer.
17. The newly installed floor should be protected while other trades complete the work. Do not drag furniture or heavy equipment across the installed flooring.

STAPLE DOWN INSTALLATION

Note: Do not use nails or staples longer than 1.5". Always maintain a minimum 3/8" to 1/2" expansion space around all vertical obstructions (walls, cabinets, pipes, etc.) during installation. Adjust the pneumatic air pressure to ensure proper penetration of the cleat/staple through the nailing fin. Test the nailer to ensure proper adjustments have been made.

Recommended tools:

Powernail - Model 2000F, Model 50P, Model 50F, Model 1845F.
Spotnail - WS4840W6, FS7550 or similar.

1. Determine the starting wall and direction to lay boards. An outside wall is typically straight and square with the room. Wood should be installed perpendicular to the joists. In cases of existing wooden floors, boards should be laid crosswise or at a 45-degree angle. Lay felt or silicone paper in same direction as boards to provide a moisture barrier and reduce potential squeaks from wood-on-wood contact.

2. **When nailing/stapling, add a tongue and groove adhesive into the groove of the short side of each board**.
3. Begin installing the first row in the right corner of the base wall. Install the first board so the short grooved side is against the expansion shims to your right and the long grooved length of the board is against the expansion shims in front of you.
4. Maintain expansion gap of 3/8" to 1/2" between first board and the wall by using spacers regularly along the length of the wall. Determine the straightness of wall by snapping a chalk line. If starting wall is not straight, make notation on first row and saw to shape.
5. Connect the end of the second board to the end of the first board, making sure the boards are tightly connected and firmly positioned against the shims. Use the hammer/rubber mallet and tapping block to tap the tongue end of the second board to ensure a tight fit. Never use the hammer or rubber mallet directly on the flooring as this will cause damage to the board.
6. Continue placing additional boards moving right to left using the same procedure until the first row is complete.
7. You will need to cut off the end of the final board, save the remaining piece for the next row as long as it is at least 8" long. Use the last board Puller to ensure the last board is tight against the preceding board. Place shims between the end of the last board and the wall. Use the shims to wedge the row tightly, rendering it immobile.
8. Once the first row has been cut and fit, face nail the first row, 1" from the wall to ensure the nails will be covered by molding. Once the first row is face-nailed, top nail the board every 4" to 6" at a 45-degree angle through the tongue using a pneumatic nailer/stapler and 1.5" fasteners.
9. Stagger end joints (at least 8") and randomly install different lengths to ensure a natural appearance. Do not create discernible patterns such as "H" or "steps". Select boards to create a uniform appearance without clusters of short lengths or sections of light or dark planks. Place aside any boards that have visual defects or are not consistent with the grade being installed.
10. The end joint must be at least 8" from the end joint in the row before it. A minimum of one end joint is required in every row, regardless of width (e.g. hallways).
11. Position the next board, match the tongue and groove at the end only, then, beginning at the opposite end of the board, tap the board onto the previous row with the tapping block. Move the tapping block back toward the right side of the board until you get near the connections with the previous board. Before you finish tapping the board onto the previous row, you must be sure the end joint is tight. If the end joint is not completely tight you may not be able to do so once the long seam is tight. With the flooring nailer, fasten through the tongues of the boards at 4" to 6" intervals and 2-3" from the end of each board.
12. Continue process across the room. The last board should be sawed to an appropriate width allowing for 3/8"-1/2" expansion space against walls and all vertical obstructions. Nail/staple the last row, 1" from the wall to ensure the nails will be covered by molding.

AFTER INSTALLATION

Regular Cleaning: Regularly vacuum or clean the floor using a dry dust mop or cloth. Use Kährs Wood Floor Cleaner as needed.

Avoid Harmful Products: Do not use oil soap, water-emulsion, self-polishing waxes, or water mixed with vinegar.

No Wet Mopping: NEVER wet mop the floor. Always clean up spills and standing water as soon as possible.

Furniture Protection: Place floor protectors on furniture legs to prevent damage.

Rug Maintenance: All mats or rugs should be cleaned and/or replaced regularly. Move them around occasionally to allow natural color changes caused by light to occur evenly in all areas. Never use latex or rubber-backed mats or rugs; they could permanently stain the floor.

Further Information: See the Kährs Floor Care Guide & Lifetime Guarantee for full details (available at www.kahrs.com).

Relative Humidity in the room

Maintain the Relative Humidity levels within 30%-60% range to avoid unwanted climate-related damage and movements in the wood floor, e.g., cracks, gaps, noise, cupping etc. In summer you may need to dehumidify the air, while in winter it may instead be necessary to increase the humidity in the air. At a too high or too low Relative Humidity, permanent shape changes of the wood floor can occur. It is important to ensure that even in empty and uninhabited spaces, the temperature and humidity are correct (especially important when installing in new constructions or major renovations). Damage caused by failing to maintain the proper humidity levels is not manufacturing related and will void the floor's warranty.

Color change

Wood is a natural material that gradually matures to its natural color, this change occurs fastest immediately after installation. To avoid uneven color change, do not lay carpets on the floor during the first few months after installation. Additionally, gloss reduction is not considered wear-through.

Warranty Exclusions

- **Squeaking, Popping, or Crackling:** These issues resulting from low spots, uneven subfloors, insufficient expansion space, or staple-down installation methods are not covered by the product warranty.
- **Dimpling:** Dimpling on the face of the flooring due to nail/staple down installation is not covered by the product warranty.
- **Indentations, Scratches, or Damages:** The following are not covered by the product warranty:
  - Negligence or exposure to extreme heat, dryness, or water saturation (including, but not limited to, a leaky faucet, broken pipe, and wet mopping).
  - Accidents, abuse, or misuse.
  - Indentations from high heels or pet nails.
  - Pet stains.
  - Damage from furniture rollers.
  - Stains resulting from chemical or industrial products.
  - Failure to follow all manufacturer's specific written installation and maintenance instructions.
  - Insufficient protection or improper alterations of the original product.

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Kährs®

INSTALLATION GUIDE FOR KÄHRS PARQUET FLOORING WITH T&G JOINT FOR FULL SURFACE BONDING.

LÄGGNINGSANVISNING FÖR KÄHRS PARKETTGOLV MED NOT OCH FJÄDER FÖR NEDLIMNING.

LEGGEANVISNING FOR KÄHRS-PARKETTGULV MED NOT OG FJÆR-FUGE FOR NEDLIMING TIL UNDERLAGET.

VERLEGEANLEITUNG FÜR DEN KÄHRS PARKETTFUSSBODEN MIT NUT-UND FEDERVERBINDUNG FÜR VOLLFLÄCHIGE VERKLEBUNG.

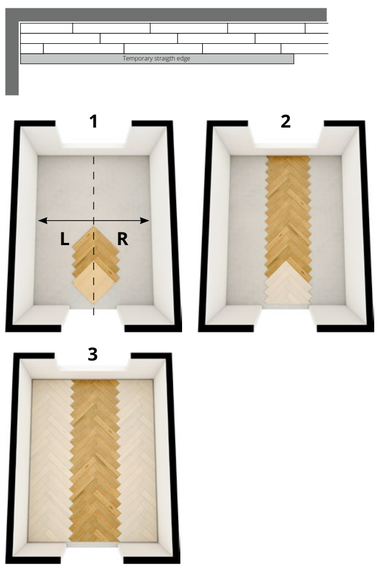
LÆGNINGSANVISNING TIL KÄHRS-PARKETGULV MED FER- OG NOTSAMLING VED FULDLIMNING AF OVERFLADER.

GUIDE D'INSTALLATION DES PARQUETS KÄHRS MUNIS D'UNE JONCTION À LANGUETTE/RAINURE DESTINÉE AU COLLAGE SUR TOUTE LA SURFACE.

GUÍA DE INSTALACIÓN DE SUELOS DE PARQUET KÄHRS CON JUNTAS DE MACHIHEMBRADO PARA UNA ADHESIÓN TOTAL.

ISTRUZIONI DI POSA DELLA PAVIMENTAZIONE PARQUET KÄHRS CON MASCHIO/FEMMINA E INCOLLAGGIO DELLA TAVOLA.

РУКОВОДСТВО ПО УКЛАДКЕ ПАРКЕТНОЙ ДОСКИ KÄHRS СО ШПУНТОВЫМ СОЕДИНЕНИЕМ С ПРИКЛЕИВАНИЕМ К ПОВЕРХНОСТИ.



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INSTALLATION GUIDE FOR KÄHRS PARQUET FLOORING WITH T&G JOINT FOR FULL SURFACE BONDING.

PLEASE READ BEFORE INSTALLATION.
Store packs carefully and protect from moisture. Do not open the packs until needed for installation. Put defective boards to one side, or trim and use for finishing off.

GENERAL DESCRIPTION:
The guidelines and recommendations given by the manufacturer of the glue for full surface bonding, should be followed.
For installing and fixating of the separate boards the special hammering block from Kährs should be used.

SUITABLE SUBFLOORS/ SUBSTRATES:
Kährs parquet flooring can be installed on all clean, dry, even and solid subfloors such as cement screeds, anhydrite screeds (calcium sulphate), mastic asphalt, V100 particleboards at least 25 mm thick, or other suitable wood-based materials such as OSB. With anhydrite liquid screeds, the sinter skin must be sanded off. Old subfloors must be free of adhesive residue. Existing elastic or textile substrates are not suitable. These must be completely removed.

SUBFLOOR PREPARATIONS
The subfloor must be dry, level, clean and solid.
The demands on humidity is extremely important. Relevant tests and preparations must be performed before starting the installation. The instructions following the respective glue product must be followed and the result of the gluing is dependent on how well the preparations are performed.
In case of old floor coverings these should always be removed or treated following the advice of the glue manufacturer.
The maximum flatness deviation required for Kährs parquet flooring is set to + or – 3 mm measured over 2 m. If the deviation is larger the subfloor needs to be levelled first.

CLEANING THE SUBFLOOR
Never leave sawdust or other organic residues on the subfloor.

PRODUCT STORAGE
The flooring material must be stored and installed in an area where the relative humidity (Rh) is between 30 – 60 %.
Before installing a wood floor, ensure that the material and the room have a minimum temperature of 18°C.
If the protective plastic has been damaged, repair it with tape to prevent moisture damaging the contents.

GLUE
Consult your glue supplier to get a glue and spatula that is appropriate for gluing down wooden floors. The traditional type of glue suitable for full surface gluing would be a Polyurethane (PUR), Modified Silicone (MS) or Silane Terminated Polymer (STP/SMP).
The subfloor dictates what is needed. Follow the instructions from the glue supplier carefully.
For gluing of the short end T&G, the recommended glue is the Kährs Wood Adhesive 0,5 l Art no 710 225.

OPENING PACKS
The wood floor is supplied ready for installation. If packs are opened too early, the boards can absorb moisture and expand, which makes them difficult to fit together.
If packs have been opened, they must be resealed carefully with tape to stop moisture getting in and adversely affecting the boards.
Open the packs only when needed during installation.

INSPECTION
It is always easier to rectify faults if they are discovered early. Always make a habit of inspecting the product at the time of installation. Always make sure that inspection and installation are carried out in good light.
Boards with obvious faults that are or should be detectable before installation must not be used. Faulty products can, of course, be exchanged with your supplier.
Claims for installed planks with obvious visual defects cannot be accepted.

INSTALLATION:
The laying direction for the parquet is usually chosen so that the strips or boards run lengthways towards the main incoming light source, and must be agreed with the client.
In hallways, the flooring should be laid lengthways. For a flush pattern at the start of installation you should lay the first row along a fixed straight edge that is as long as possible.
Depending on the parquet format, fix the straight edge to the floor at a distance of 2 to 5 board widths plus a 5 to 10 mm gap from the wall.
Lay the parquet along the straight edge with the groove side facing the wall.
Remove the straight edge once the area has been covered.
Wait a short time to ensure the first rows do not move and perfect alignment is maintained.
For an irregular pattern, you can use the offcut as the starting piece in the next row. However, do not lay the end joints too close to one another; they should be offset by minimum 500 mm.
Any production-related short lengths supplied in the pack can also be used as start or end pieces. You must completely avoid any adhesive coming into contact with oiled/ lacquered surfaces, especially colored oiled surfaces.
Lay the parquet boards in the adhesive bed with a slight gap yet as close as possible to the previously laid parquet and then insert into the tongue and groove connection.
Pay particular attention to pressing down the boards at the edge areas and if necessary weigh them down because the subfloor is often uneven in these areas. It is generally advantageous to use weights to weigh down the boards in uneven areas while the adhesive cures. Kährs parquet flooring with full-surface adhesion can also be fitted directly up to ceramic floors, columns, etc.

HERRINGBONE INSTALLATION:
1. Based on the focal point in the room a centre and baseline have to be established. Make a tile of e.g. chipboard in size about 500x500 mm and with exactly 90° angles. Anchor the tile diagonal to the centre line with screws or double-sided tape. Glue down the first boards along the tile. Let the glue harden for 24 hours before installation can continue.

2. After the glue has harden, continue to install the first two rows.

3. Continue the installation.

UNDERFLOOR HEATING:
Make sure that all the necessary tests on the underfloor heating system have been completed before the flooring installation begins. The surface temperature of the floor must never exceed 27°C.

GENERAL NOTES:
Installing the parquet flooring should be the last job on a building site; any work that introduces moisture into the building site, e.g. painting, should be completed beforehand.
However, should there be other work pending, the parquet must be covered with a breathable protective cover (not plastic film), Kährs Floor Protection Paper, art. No. 710179.
Do not stick any adhesive tape to the parquet surface as plasticizers can damage the surface. Walk on the flooring as little as possible for a few hours after laying because it takes approx. 24 hours for the adhesive to adequately cure.

CLEANING AND CARE:
The Kährs lacquered or oiled parquet boards are hygienic and easy to maintain.
After installation, oiled floors must be treated using Kährs Satin Oil.
Instructions for after-installation and continous maintenance are available in Kährs Maintenance guide at **www.kahrs.com**.

NO

LEGGEANVISNING FOR KÄHRS-PARKETTGULV MED NOT OG FJÆR-FUGE FOR NEDLIMING TIL UNDERLAGET.

LES ANVISNINGEN FØR LEGGING.
Oppbevar buntene forsiktig og beskytt dem mot fuktighet. Ikke åpne buntene før du begynner å legge bordene. Legg eventuelle skadede bord til side, eller kapp og tilpass dem og bruk dem til avslutninger.

GENERELL BESKRIVELSE
Limprodusentens retningslinjer og anbefalinger for hel nedliming skal følges.
Kährs spesialslagkloss bør brukes til legging og festing av enkeltbordene.

EGNEDE UNDERGULV/ UNDERLAG:
Kährs-parkettgulv kan legges på alle tørre og faste underguly, for eksempel sementmasse, anhydrittmasse (kalsiumsulfat), støpeasfalt, sponplater som er minst 22 mm tykk eller andre egnede trebaserte materialer, for eksempel OSB. På flytende anhydrittmasse må sinterhuden slipes ned. Gamle underguly må være fri for limrester. Eksisterende plast- eller tekstilunderlag er ikke egnet. Disse må fjernes helt.

FORBEREDELSE AV UNDERGULVET
Undergulvet må være tørt, rent, plant og fast.
Kravene når det gjelder fuktighet, er svært viktige. Før man starter leggingen, må relevante tester og forberedelser utføres. Anvisningene for det respektive limproduktet må følges, og resultatet av limingen er avhengig av hvor godt forberedelsene er gjennomført.
Dersom gulvbelegget er gammelt, skal det alltid fjernes eller behandles i samsvar med limprodusentens råd.
Det maksimale planhetsavviket for Kährs-parkettgulv er + eller - 3 mm målt over 2 m. Dersom avviket er større, må undergulvet avrettes først.

RENGJØRING AV UNDERGULVET
La aldri sagspon eller andre organiske rester ligge igjen på undergulvet.

OPPBEVARING AV PRODUKTET
Gulvmaterialet må oppbevares og legges i et område der den relative fuktigheten er mellom 30 og 60 %.
Pass på at materialene og rommet har en temperatur på minst 18 °C før legging av tregulvet.
Dersom emballasjeplasten er skadet, repareres den med teip for å hindre at fukt skader innholdet.

LIM
Spør limleverandøren om hvilket lim og sparkel som er egnet for nedliming av tregulv. De tradisjonelle limtypene som er egnet for hel nedliming, er polyuretan (PUR), modifisert silikon (MS) eller silanterminert polymer (STP/SMP).
Undergulvet er den avgjørende faktoren. Følg anvisningene fra limprodusenten nøye.
Til liming av not og fjær i kortende brukes Kährs trelim 0,5 l, artikkelnr. 710225.

ÅPNING AV BUNTER
Tregulvet leveres klart for legging. Dersom buntene åpnes for tidlig, kan bordene absorbere fuktighet og utvide seg slik at de blir vanskelige å få sammen.
Dersom buntene har vært åpnet, må de forsegles godt med teip for å hindre at fuktighet trenger inn og påvirker bordene negativt.
Åpne deretter buntene ved behov under leggingen.

KONTROLL
Det er alltid lettere å utbedre feil dersom de blir oppdaget tidlig. Gjør det derfor til en vane å kontrollere produktet i forbindelse med leggingen. Kontroll og legging skal alltid utføres i god belysning.
Bord med åpenbare feil som blir eller kunne ha blitt konstatert før legging skal ikke brukes. Produkter med feil kan selvfølgelig byttes hos leverandøren.
Reklamasjoner på synlige skader på bord som er lagt, vil ikke bli akseptert.

LEGGING:
Leggeretningen for parketten er vanligvis slik at stavene eller bordene går i lengderetningen mot hovedkilden for innkommende lys, og må avtales med kunden.
I entréer bør gulvet alltid legges i lengderetningen. For å få et jevnt mønster ved begynnelsen av leggingen bør du alltid legge den første raden langs en fast og rett linje som er så lang som mulig.
Avhengig av parkettformatet festes rettholten til gulvet med en avstand på 2 til 5 bordbredder og 5 til 10 mm fra veggen.
Legg parketten langs rettholten med fjærsiden mot veggen.
Ta bort rettholten når området er dekket.
Vent litt for å være sikker på at de første radene ikke flytter på seg og ligger helt jevnt.
Hvis du vil ha et ujevnt mønster, kan du bruke avkapp som startstykke i neste rad. Men ikke legg endeskjøtene for nær hverandre. De bør legges minst 500 mm fra hverandre.
Eventuelle produksjonsrelaterte kortlengder som leveres i bunten, kan også brukes som start- eller endestykker. Man må helt unngå at lim kommer i kontakt med oljede/lakkerte flater, særlig flater med farget olje.
Legg parkettbordene i limet med et lite mellomrom mellom dem, men så nær parketten som er lagt tidligere som mulig. Sett dem deretter inn i not og fjær-forankringen.
Vær nøye med å presse ned bordene i kantområdene, og om nødvendig trykker du dem ned siden undergulvet ofte er ujevnt i disse områdene. Generelt er det nyttig å bruke vekter for å trykke ned bordene i ujevne områder mens limet tørker. Kährs-parkettgulv som er hellimt til undergulvet, kan også monteres tett inntil keramiske gulvfliser, søyler osv.

LEGGING AV FISKEBENSMØNSTER
1. Basert på rommets midtpunkt, bestemmes en senter- og baslinje. Lag en plate av f.eks. spon i størrelse 500 x 500 mm med eksakt rette vinkler (90º). Fest platen diagonalt mot senterlinjen med skrue eller dobbelsidig tape. Lim ned de første bordene langs platen. La limet herde i 24 timer.

2. Når limet er herdet, fortsett å legge de to første radene.

3. Fortsett leggingen.

GULVVARME:
Påse at alle nødvendige tester av gulvvarmesystemet er utført før gulvleggingen begynner. Gulvets overflatetemperatur må aldri overstige 27 °C.

GENERELLE MERKNADER:
Legging av parkettgulv bør være den siste jobben på en byggeplass. Eventuelt arbeid som tilfører byggeplassen fuktighet, f. eks. maling og flislegging, bør være avsluttet på forhånd.
Hvis det fortsatt er annet arbeid som må gjøres, må parketten dekkes til med et pustende beskyttelsesdekke (ikke plastfilm), Kährs gulvbeskyttelsespapp, artikkelnr. 710179.
Ikke klistre teip på parkettoverflaten fordi plastiseringsmidler kan skade overflaten. Gå minst mulig på gulvet i timene etter at gulvet er lagt. Det tar cirka 24 timer før limet er tilstrekkelig tørt.

RENGJØRING OG STELL:
Lakkerte eller oljede parkettbord fra Kährs er hygieniske og lette å vedlikeholde.
Etter legging må oljede gulv behandles med Kährs Satin Oil.
Anvisninger for stell og vedlikehold finnes i vedlikeholdsveiledningen fra Kährs på **www.kahrs.com**.

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SE

LÄGGNINGSANVISNING FÖR KÄHRS PARKETTGOLV MED NOT OCH FJÄDER FÖR NEDLIMNING.

LÄS DETTA FÖRE LÄGGNINGEN
Förvara buntarna omsorgsfullt och skyddade mot fukt. Öppna inte buntarna förrän det behövs vid läggningen. Lägg felaktiga brädor åt sidan eller kapa dem och använd dem för avslutningsarbeten.

ALLMÄN BESKRIVNING:
Följ de instruktioner och rekommendationer som tillverkaren av lim för nedlimning lämnar.
För läggning och fixering av separata brädor rekommenderas den särskilda slagklotsen från Kährs.

LÄMPLIGA UNDERGOLV/ SUBSTRAT:
Kährs parkettgolv kan läggas på alla rena, torra, jämna och solida undergolv som t.ex. cement, anhydritunderlag (gips), gjutasfalt, minst 25 mm tjocka V100-spånskivor eller andra lämpliga träbaserade material som t.ex. OSB. För flytande anhydritunderlag måste sinterskiktet slipas bort. Gamla undergolv får inte ha några kvarvarande limrester. Elastiska underlag eller underlag av textil är inte lämpliga. Sådana måste tas bort helt och hållet.

FÖRBEREDELSE AV UNDERGOLV
Undergolvet ska vara torrt, plant, rent och solitt.
Kraven på fuktighet är ytterst viktiga. Relevanta tester och förberedelser måste göras innan läggningen påbörjas. Följ de instruktioner som medföljer de olika limprodukterna. Resultatet av limningen beror på hur väl förberedelserna är gjorda.
Avlägsna alltid gamla golvbeläggningar eller behandla dem enligt limtillverkarens råd.
Den maximala ojämnheten för Kährs parkettgolv är + eller - 3 mm över 2 m mätlängd. Om ojämnheten är större måste undergolvet utjämnas först.

RENGÖRING AV UNDERGOLVET
Lämna aldrig sågspån eller andra organiska rester på undergolvet.

LAGRING AV PRODUKTEN
Golvmaterialet ska lagras och läggas i ett utrymme där den relativa luftfuktigheten (Rh) ligger mellan 30 och 60%.
Säkerställ att materialet och rummet har en lägsta temperatur på 18 °C innan ett trägolv läggs.
Laga skyddsplasten med tejp om den har skadats för att undvika att innehållet fuktskadas.

LIM
Rådgör med leverantören av lim så att du får ett lim och en spackel som är lämpliga för limning av trägolv. Den traditionella typen av lim som passar för nedlimning är polyuretan (PU), silylmodifierad polyuretan (SPUR) eller silylmodifierad polyter (SMP).
Det är undergolvet som avgör vad som behövs. Följ instruktionerna från limleverantören noggrant.
För limning av kortsidans not och fjäder är det rekommenderade limmet Kährs lim 0,5 l, art.nr 710225.

ÖPPNANDE AV BUNTAR
Trägolvet levereras färdigt för läggning. Om buntarna öppnas för tidigt kan brädorna ta åt sig fukt och svälla, vilket gör dem svåra att lägga ihop.
Buntar som har öppnats ska förslutas noggrant igen med tejp så att ingen fukt kan komma in och påverka brädorna negativt.
Öppna inte buntarna förrän det behövs vid läggningen.

INSPEKTION
Det är alltid lättare att rätta till fel om de upptäcks tidigt. Gör det alltid till en vana att inspektera produkten när det är dags för läggning. Se alltid till att inspektion och läggning sker i god belysning.
Brädor med uppenbara fel som upptäcks eller borde upptäckas före läggning får inte användas. Felaktiga brädor kan givetvis bytas ut hos din leverantör.
Krav på redan lagda brädor med uppenbara synliga defekter kan inte godtas.

LÄGGNING:
Läggningsriktningen för parkett väljs vanligen så att brädorna löper längs med den huvudsakliga dagsljuskällan. Det ska dock överenskommas med kunden.
I hallar bör golvet läggas i längdriktningen. För att få ett jämnt mönster från början bör du lägga den första raden utmed en fast, rak kant som är så lång som möjligt.
Fäst en riktkant i golvet på ett avstånd av 2–5 brädbredder plus en spalt på 5–10 mm från väggen, måtten beror på parkettens format.
Lägg parketten längs den raka kanten med fjädersidan vänd mot väggen.
Ta bort riktkanten när ytan är täckt.
Vänta ett tag tills du är säker på att de första raderna inte rubbas och att riktningen är perfekt.
I ett oregelbundet mönster kan du använda kapade bitar som startbit för nästa rad. Ändskarvarna får dock inte läggas för nära varandra utan ska vara förskjutna minst 500 mm.
Eventuella korta längder som uppkommit i tillverkningen i bunten kan också användas som start- eller ändbitar. Var försiktig så att inget lim över huvud taget kommer i kontakt med oljade eller lackade ytor, speciellt kulörta oljade ytor.
Lägg brädorna i limbädden med en liten springa, men ändå så tätt som möjligt mot den tidigare lagda parketten, och tryck sedan in dem i not- och fjäderskarven.
Var särskilt uppmärksam på att pressa ned brädorna i hörnorna och lägg gärna en tyngd på dem eftersom undergolvet ofta är ojämnt just här. I allmänhet är det en fördel att använda tyngder för att pressa ned golvet på ojämna områden medan limmet härdar. Kährs parkettgolv med nedlimning kan också läggas direkt mot keramiska golv, pelare etc.

LÄGGNING AV FISKBENSMÖNSTER:
1. Baserat på rummets mittpunkt fastställs en centrum- och en baslinje. Tillverka en platta av t.ex. spånskiva i storlek ca: 500x500 mm med exakt rätvinkliga vinklar (90°). Fäst plattan diagonalt mot centrumlinjen med skruv eller dubbelhäftande tape. Limma ned de första brädorna längs plattan. Låt limmet härda i 24 timmar.

2. När limmet har härdat, fortsätt att lägga de två första raderna.

3. Fortsätt läggningen.

GOLVVÄRME:
Se till att nödvändiga tester på golvvärmesystemet är gjorda innan golvläggning utförs. Golvets yttemperatur får aldrig överstiga 27°C.

ALLMÄNNA ANMÄRKNINGAR:
Läggning av parkettgolv bör vara det sista jobbet på en byggarbetsplats. Allt arbete som innebär fukt på byggarbetsplatsen, t.ex. målning, bör utföras dessförinnan.
Om det trots allt resterar annat arbete ska parketten täckas med ett skyddslager som andas (inte plastfolie) som Kährs skyddspapp, art. nr 710179.
Klistra inte självhäftande tejp på parkettens yta eftersom mjukgörarna kan skada ytan. Undvik att gå på golvet under de första timmarna efter läggningen eftersom det tar ungefär ett dygn för limmet att genomhärda.

RENGÖRING OCH SKÖTSEL:
Kährs lackade eller oljade parkettgolv är hygieniska och lättskötta.
Efter läggningen ska oljade golv installationsoljas med Kährs Satin Oil.
Anvisningar för underhåll efter läggningen och löpande underhåll finns i Kährs Underhållsguide på **www.kahrs.com**.

DE

VERLEGEANLEITUNG FÜR KÄHRS PARKETTFUSSBÖDEN MIT NUT-UND FEDERVERBINDUNG FÜR VOLLFLÄCHIGE VERKLEBUNG.

BITTE LESEN SIE DIE FOLGENDEN HINWEISE BEVOR SIE MIT DER VERLEGUNG BEGINNEN.
Pakete müssen sorgfältig und vor Feuchtigkeit geschützt gelagert werden. Pakete erst unmittelbar im Takt der Verlegung öffnen und aus mehreren Paketen gleichzeitig verlegen um ein harmonisches Gesamtbild zu erzeugen. Fehlerhafte Elemente nicht verarbeiten oder im Verschnitt verwenden.

ALLGEMEINE BESCHREIBUNG:
Bitte beachten Sie die Anweisungen und Empfehlungen des Kleberherstellers zur vollflächigen Verklebung.
Für das Verlegen und die Befestigung der einzelnen Dielen sollte nur der spezielle Schlaglotz von Kährs verwendet werden.

GEEIGNETE UNTERBÖDEN/ UNTERGRÜNDE:
Der Kährs Parkettfußboden kann auf allen sauberen, trockenen, ebenen und stabilen Unterböden wie Zementestrich, Anhydritestrich (Kalzumsulfat), Gussasphalt, V100-Spanplatten in einer Stärke von mindestens 25 mm oder sonstigem geeignetem Material auf Holzbasis, wie z.B. OSB-Platten, verlegt werden. Bei Anhydritestrich muss die Sinterhaut abgeschliffen werden. Alte Klebstoffreste sind vom Untergrund zu entfernen. Altuntergründe, die nachgeben oder Teppichböden, sind ungeeignet. Sie müssen vollständig entfernt werden.

VORBEREITUNG DES UNTERBODENS
Der Unterboden muss trocken, sauber, eben und fest sein.
Alte Untergründe sollten immer entfernt oder gemäß der Anleitung des Klebstoffherstellers vorbehandelt werden.
Die maximale Ebenheitsabweichung für Kährs Parkettböden liegt bei 3 mm, gemessen über eine Länge von 2 m. Ist die Abweichung größer, muss der Unterboden zuerst ausgeglichen werden.

REINIGUNG DES UNTERBODENS
Befreien Sie den Unterboden immer von Sägespänen und anderem organischen Material.

Der Unterboden ist gründlich zu reinigen, damit es nicht zur Fäulnisbildung kommt.

LAGERUNG DES PRODUKTS
Das Parkettbodenmaterial muss in einem Raum mit relativer Luftfeuchte von 30 – 60 % gelagert und verlegt werden.
Vor dem Verlegen von Holzböden muss der Raum und das Parkett zuerst auf eine Mindesttemperatur von 18 °C gebracht werden.
Ist die Schutzfolie beschädigt, verschließen Sie die Stelle mit Klebeband, sodass keine Feuchtigkeit den Inhalt des Pakets beschädigen kann.

PARKETTKLEBSTOFF UND VERBRAUCH:
Wir empfehlen unseren silanmodifizierten 1-K-Parkettklebstoff. Er ist ohne Voranstrich verwendbar. Bei Gußasphalt ist ein Voranstrich mit Renogrund-PU Rapid erforderlich. Mit geeigneter Klebstoffspachtel auftragen. Bitte beachten Sie die Vorgaben des Klebstoffherstellers. Rechtzeitig Zahnspachtel austauschen oder nachfeilen sobald diese abgenutzt ist. Nur so viel vorstreichen, wie innerhalb der offenen Zeit verlegt werden kann. Bei Arbeitsunterbrechungen ist überschüssig aufgetragener Klebstoff mit der glatten Spachtel vom Estrich abzuschieben. Hilfreich ist ein Schnurschlag, der den Klebstoffauftrag für eine bestimmte Anzahl von Elementreihen begrenzt. Die Verarbeitungsvorschriften des jeweiligen Klebstoffherstellers sind zu beachten. Sofern die Verklebung der stirnseitigen Verbindung erforderlich ist, empfehlen wir Kährs Wood Adhesive 0,5 l Art. Nr. 710 225.

ÖFFNEN DER PAKETE
Das Parkett wird in verlegefertigem Zustand ausgeliefert. Werden die Pakete zu früh geöffnet, nehmen die Dielen eventuell Feuchtigkeit auf und dehnen sich aus. Sie können dann nur schwer zusammengefügt werden.
Wurden Verpackungen bereits geöffnet, sind sie sorgfältig mit Klebeband zu verschließen, sodass keine Feuchtigkeit eindringen und die Dielen negativ beeinflussen kann.
Öffnen Sie die Pakete nur, wenn Sie diese zur Verlegung benötigen.

KONTROLLE
Fehler lassen sich einfacher beheben, wenn sie rechtzeitig erkannt werden. Kontrollieren Sie daher das Produkt genauestens während der Verlegung. Sorgen Sie dafür, dass Kontrolle und Verlegung immer bei guter Beleuchtung erfolgen!
Elemente mit offensichtlichen Mängeln, die bereits bei der Verlegung entdeckt werden, dürfen nicht verwendet werden. Selbstverständlich bietet Ihr Händler ihnen Ersatz für fehlerhafte Produkte.
Reklamationen für bereits verlegte Elemente , die einen sichtbaren Schaden aufweisen, können nicht akzeptiert werden.

RAUM- UND MATERIAL-TEMPERATUR:
Die Raum- und Materialtemperatur muss mindestens 18° C betragen. Zur Werterhaltung der Böden und zum Wohlbefinden der Bewohner ist im späteren Gebrauch ein gesundes Raumklima von 18 bis 22 ° C und eine rel. Luftfeuchtigkeit von 40 bis 60 % empfehlenswert. Während der Heizperiode kann dafür mit geeigneten Raumluftbefeuchtern gesorgt werden.

RESTFEUCHTIGKEIT DES UNTERBODENS:
Vor der Verlegung ist der Unterboden gemäß den länderspezifischen Normen bzw. EU-Normen für Parkettarbeiten (Feuchtigkeit, Ebenheit, Festigkeit) zu prüfen.
Die Einhaltung der maximal zulässigen Feuchtigkeitswerte ist mit Hilfe eines CM-Messgeräts zu kontrollieren und zu protokollieren.
Zementestrichmax. 2,0 %, (Schweiz 2,3%),bei Fußbodenheizung 1,8 % (Schweiz 1,5 %).
Anhydritestriche: max. 0,5 % bei Fußbodenheizung max. 0,3 %

EBENHEITSANFORDERUNGEN:
Je ebener der Unterboden ist, desto besser ist das optische Gesamtergebnis.
Diese wird mit Hilfe einer 2 Meter langen Richtlatte und Messkeil geprüft und darf folgende Unebenheiten nicht überschreiten:
3 mm bei 2 Meter Messpunktabstand.
2 mm bei 1 Meter Messpunktabstand.

Größere Unebenheiten sind mit geeigneter Nivellierspachtelmasse vor der Verlegung auszugleichen.

FESTIGKEIT:
Estriche dürfen nicht gerissen sein oder sanden. Die Festigkeit ist mit der Gitterritzprüfung zu kontrollieren. Wenn die Gitterritze scharfkantig bleiben und keine Ausbrüche zeigen, darf verklebt werden. Bei kritischen Untergründen ist eine Probeverklebung empfehlenswert.

FUGEN IM ESTRICH:
Sollbruchstellen/Schwindfugen sind kraftschlüssig zu verbinden. Bewegungsfugen müssen übernommen werden.

FUSSBODENHEIZUNG:
Vor der Verlegung von Parkett auf einer beheizten Bodenfläche muss der Heizestrich unbedingt die vollständige Belegreife erreicht haben. Dazu wird der Estrich mit Hilfe eines Belegreif-Heizprotokolls der Schnittstellenkoordination Flächenheizungen trocken geheizt.
Um diesen Vorgang zu dokumentieren, muss ein unterschriebenes Heizprotokoll vorliegen. Dennoch ist in jedem Fall vor der Verlegung die Feuchtigkeit des Estrichs zu kontrollieren. Wenn die zuvor erwähnten Feuchtigkeitswerte unterschritten werden, ist ein erneutes Aufheizen erforderlich.
Nach der Verlegung darf die Oberflächentemperatur des Parketts 27 °C nicht überschreiten. Die Heizleistung der Anlage ist dementsprechend einzustellen.

VERLEGUNG:
Die Verlegerichtung des Parketts wird normalerweise so gewählt, dass die Elemente oder Dielen in Längsrichtung zur Hauptlichtquelle verlaufen – das Einverständnis des Kunden vorausgesetzt.
In Korridoren sollte der Boden in Längsrichtung verlegt werden. Um Verlegeergebnis zu erzielen, verlegen Sie die erste Reihe entlang einer geraden Leiste, die möglichst lang ist.
Je nach Parkettformat befestigen Sie diese Leiste am Boden im Abstand einer Breite von 2 – 5 Parkettdielen zuzüglich 5 bis 10 mm Abstand von der Wand.
Verlegen Sie das Parkett entlang der geraden Leiste, wobei die Nut zur Wand zeigt.

Nachdem die Fläche verlegt wurde, die Leiste entfernen.
Warten Sie kurz ab und achten Sie darauf, dass sich die ersten Reihen nicht verschoben werden und bleiben.
Um einen unregelmäßigen Versatz zu erzielen, können Sie das Reststück als Anfang der nächsten Reihe verwenden. Legen Sie die Endstücke jedoch nicht zu nah beieinander; der Versatz sollte mindestens 500 mm, bzw. 1/3 der Länge bei kleineren Elementen betragen.
Alle mitgelieferten, produktionstechnisch kürzeren Stücke können ebenfalls als Anfangs- oder Endstücke verwendet werden. Achten Sie unbedingt darauf, dass der Kleber nicht in Kontakt mit geölten/lackierten Flächen (besonders gefärbten geölten Flächen) kommt.
Legen Sie die Parkettdielen auf das Klebebett und lassen Sie dabei möglichst nahe zur vorherigen Parkettdiele noch eine kleine Lücke; anschließend schieben Sie die Diele in die Nut- und Federverbindung.
Achten Sie vor allem darauf, die Dielen entlang der Wand gut herunterzudrücken und bei Bedarf mit einem Gewicht zu belasten, da der Unterboden an diesen Stellen oft uneben ist. Es ist grundsätzlich von Vorteil, die Dielen bei Bedarf mit Gewichten zu beschweren, solange der Kleber noch nicht ausgehärtet ist. Kährs Parkettfußboden kann bei vollflächiger Verklebung mit einer Fuge von wenigen Millimetern im Anschluss an Fliesenböden, Stützen usw. verlegt werden.

VERLEGUNG BEI FISCHGRATMUSTER:
1. Legen Sie eine Basislinie in Bezug auf die optische Raummitte an. Fertigen Sie eine Platte ca. 500x500 mm mit einem exakten rechten Winkel (90°) an und befestigen Sie die Platte diagonal auf der Basislinie. Verkleben Sie die ersten Elemente des Musters entlang der Platte. Lassen Sie den Klebstoff aushärten.

2. Nach der Aushärtung des Klebstoffs setzen Sie die Verlegung des ersten Musters fort.

3. Setzen Sie die Verlegung nach rechts und links fort.

ALLGEMEINE HINWEISE:
Die Parkettbodenverlegung sollte die letzte handwerkliche Maßnahme auf der Baustelle sein; jede Arbeit, die Feuchtigkeit ins Gebäude bringt, z. B. Malerarbeiten, müssen zuvor abgeschlossen sein.
Stehen jedoch weitere Arbeiten an, ist das Parkett mit einem atmungsaktiven Schutz (keine Plastikfolie), Kährs Floor Protection Paper, Art.-Nr. Nr. 710 179, abzudecken.
Kleben Sie kein Klebeband auf die Parkettoberfläche, da der Weichmacher die Oberfläche beschädigen könnte. Betreten Sie den Boden die ersten Stunden nach dem Verlegen so wenig wie möglich, da der Kleber (abhängig vom Klebstoff) ca. 24 Stunden bis zur vollständigen Aushärtung braucht.

REINIGUNG UND PFLEGE:
Die lackierten oder geölten Parkettfußböden von Kährs sind einfach sauber zu halten. Nach dem Verlegen müssen geölte Böden einer Erstpflege mit Öl unterzogen werden (z.B. mit Kährs Satin Oil).
Filzgleiter unter Möbel-, Tisch- und Stuhlbeinen usw. verhindern unnötige Kratzer und Druckstellen. Bürostühle müssen grundsätzlich mit weichen Rollen vom Typ W (EN 12529) ausgestattet sein. Unter Bürostühlen verhindert das Auslegen transparenter Schutzmatten einen örtlichen Verschleiß. Damit möglichst wenig Schmutz und Nässe auf den Parkettboden gelangt, sollten geeignete und auf die Nutzung abgestimmte Schmutzfangschleusen eingebaut sein. Die Empfehlungen in dieser Verlegeanleitung beruhen auf umfangreichen Praxiserfahrungen. Wegen der Verschiedenartigkeit der bauseitigen Verhältnisse können aus unseren Empfehlungen keinerlei Gewährleistungs- oder Haftungsansprüche abgeleitet werden. Wir empfehlen in kritischen Fällen ausreichende Eigenversuche vor der Verlegung durchzuführen.
Anweisungen zur Behandlung nach dem Verlegen und zur fortlaufenden Pflege finden Sie unter den Pflegehinweisen von Kährs auf **www.kahrs.com**.

RU

РУКОВОДСТВО ПО УКЛАДКЕ ПАРКЕТНОЙ ДОСКИ KÄHRS СО ШПУНТОВЫМ СОЕДИНЕНИЕМ С ПРИКЛЕИВАНИЕМ К ПОВЕРХНОСТИ.

ПРОЧТИТЕ ПЕРЕД ТЕМ, КАК ПРИСТУПИТЬ К УКЛАДКЕ.
Храните упаковки в сухом месте. Не вскрывайте упаковку до начала укладки. Отложите доски с дефектами или обрежьте их и используйте на завершающих этапах укладки.

ОБЩЕЕ ОПИСАНИЕ:
Следуйте инструкциям и указаниям изготовителя клея для полного поверхностного приклеивания.

Для установки и фиксации отдельных досок используйте специальный ударный блок от Kährs.

ПОДХОДЯЩИЕ ЧЕРНОВЫЕ ПОЛЫ / ПОКРЫТИЯ.
Паркет Kährs устанавливается на сухой, ровный, прочный и чистый черновой пол, например, на цементную стяжку, ангидритовую стяжку (сульфат кальция), асфальтовую мастику, ДСП V100 толщиной не менее 25 мм либо другие подходящие деревоматериалы, такие как ОСП. С жидкой ангидритовой стяжки необходимо снять слой окалины. Старые черновые полы необходимо очистить от остатков клея. Существующие эластичные либо текстильные полностью удалить.

ПОДГОТОВКА ЧЕРНОВОГО ПОЛА
Черновой пол должен быть сухим, ровным, чистым и прочным.

Особенно важно соблюдение требований к влажности. Перед началом укладки необходимо провести соответствующие проверки и подготовительные работы. Обязательно следуйте инструкции на упаковке используемого клея. Результат приклеивания зависит от того, насколько тщательно проведена подготовка.

Старое напольное покрытие, если оно есть, необходимо удалить или обработать в соответствии с рекомендациями изготовителя клея.

Максимальная неровность для паркетных полов Kährs не должна превышать ±3 мм на участке 2 м. Если неровность больше, потребуется предварительное выравнивание чернового пола.

ОЧИСТКА ЧЕРНОВОГО ПОЛА
Никогда не оставляйте на поверхности чернового пола опилки или другие органические отходы.

УСЛОВИЯ ХРАНЕНИЯ
Материалы для напольных покрытий следует хранить при относительной влажности 30–60%.

Перед укладкой деревянного пола убедитесь в том, что температура материалов и помещения не ниже
18 °C.

Если защитная упаковка была повреждена, заклейте ее скотчем так, чтобы влага не смогла проникнуть внутрь и повредить содержимое.

КЛЕЙ
Проконсультируйтесь у поставщика клея, как выбрать клей и шпатель для укладки деревянного пола. Как правило, для полного поверхностного приклеивания используются клеи на основе полиуретана (PUR), модифицированного силикона (MS) или силан-модифицированных полимеров (STP/SMP).

Выбор клея определяется типом чернового пола. Тщательно соблюдайте инструкции поставщика клея.

Для приклеивания коротких сторон досок со шпунтовым соединением рекомендуется использовать клей для деревянных полов Kährs 0,5 л, артикул № 710 225.

ВСКРЫТИЕ УПАКОВКИ
Паркетная доска поставляется готовой к укладке. Если упаковку открыть заранее, доски могут впитать влагу и разбухнуть, из-за чего их будет сложно соединить вместе.

Если упаковка вскрывалась, ее необходимо снова запечатать скотчем, чтобы не допустить повреждения доски из-за изменения влажности.

Открывайте упаковку только при необходимости во время укладки пола.

КОНТРОЛЬ
Чем раньше вы обнаружите ошибки, тем проще будет их исправить. Возьмите за правило перед укладкой осматривать доски. Проводите осмотр и укладку при хорошем освещении.

Не стоит использовать доски с явными дефектами, обнаруживаемыми еще до начала укладки. Ваш поставщик, конечно же, заменит доски с дефектами.

Тем не менее замена установленных планок с видимыми дефектами не производится.

УКЛАДКА:
Направление укладки паркета обычно выбирается так, чтобы плашки или доски лежали вдоль направления потока света от главного источника, и согласовывается с клиентом.

В коридорах напольные покрытия укладываются в продольном направлении. Если начинаете укладку не от стены, первый ряд кладывается вдоль как можно более длинной зафиксированной линейки.

В зависимости от формата паркета зафиксируйте линейку на полу на расстоянии от стены от двух до пяти досок плюс зазор 5–10 мм.

Укладывайте паркет вдоль линейки так, чтобы сторона с гребнем смотрела на стену.

Уберите линейку, закончив участок.

Подождите некоторое время, чтобы убедиться в том, что первые ряды не сместились и выравнивание сохраняется.

При укладке со смещением вы можете использовать обрезки предыдущего ряда для начала следующего ряда. При этом торцевые стыки в соседних рядах не стоит располагать слишком близко: их необходимо смещать относительно друг друга минимум на 500 мм.

Так же в начале или конце ряда можно использовать фабричные укороченные доски, которые могут попадаться в упаковке. Избегайте попадания клеящих веществ на промасленные/лакированные и особенно цветные промасленные поверхности.

Укладывайте паркетные доски на клей с небольшими промежутками, но в то же время как можно ближе к предыдущему ряду, а затем вставляйте гребни в пазы.

С особым вниманием следует относиться к прижиманию крайних досок в ряду, поскольку черновой пол на таких участках часто бывает неровным. Иногда для них требуется дополнительное давление. Следует использовать грузы для прижимания досок к неровным участкам, пока клей не схватится. Паркетные доски Kährs сплошного наклеивания также можно подгонять вплотную к керамическим полам, колоннам и т. д.

УКЛАДКА УЗОРА АНГЛИЙСКОЙ / ВЕНГЕРСКОЙ ЁЛКИ
1. Исходя из точки фокуса в комнате необходимо определить центр рисунка укладки и базовую линию направления укладки. Изготовьте шаблон, например, из доски, размерами 500 X 500 мм с углами точно под 90°. Прикрепите шаблон по диагонали к центральной линии укладки используя саморезы / шурупы или двустороннюю клейкую ленту. Приклейте первые паркетные доски вдоль сторон шаблона. Необходимо подождать 24 часа, чтобы клей затвердел, прежде чем вы сможете продолжать укладку паркета.

2. После того как клей затвердеет, продолжайте укладку первых двух рядов.

3. Продолжайте укладку.

ПОЛЫ С ПОДОГРЕВОМ:
Перед тем как начать укладку паркета убедитесь, что все необходимые проверки системы полов с подогревом были проведены. Температура на поверхности паркета не должна превышать 27°C.

ОБЩИЕ ЗАМЕЧАНИЯ:
Укладка паркетной доски должна быть последним этапом ремонтно-строительных работ в помещении. Все работы, в ходе которых в помещении увеличивается влажность, должны быть к этому времени закончены.

Если же другие работы продолжают выполняться, следует закрыть паркет дышащим защитным покрытием (не пластиковой пленкой): защитной бумагой Kährs, артикул № 710179.

Не наклеивайте на поверхность паркета клейкую ленту: пластификаторы могут повредить поверхность. В первые несколько часов после укладки ходите по паркету как можно меньше, так как для достаточного схватывания клея требуется приблизительно 24 часа.

УБОРКА И УХОД:
Пол из паркетных досок Kährs, обработанных маслом либо лаком, гигиеничен и прост в уходе.

Промасленные доски после укладки следует обработать Сатиновым маслом Kährs.

О том, как обработать паркет после установки и ухаживать за ним в дальнейшем, вы можете прочитать в руководстве Kährs по уходу на сайте **www.kahrs.com**.

DK

LÆGNINGSANVISNING TIL KÄHRS-PARKETGULV MED FER- OG NOTSAMLING VED FULDLIMNING AF OVERFLADER.

SKAL LÆSES INDEN LÆGNINGEN.
Opbevar pakkerne sikkert og beskyttet mod fugt. Åbn ikke pakkerne, før de skal bruges til lægningen. Læg defekte brædder til side, eller tilskær dem, så de kan bruges til afslutning.

GENEREL BESKRIVELSE:
Følg limproducentens anbefalinger og retningslinjer for fuldlimning af overflader.

Ved lægning og fastgørelse af de adskilte brædder anvendes den særlige slagklods fra Kährs.

EGNEDE UNDERGULVE/ UNDERLAG:
Kährs-parketgulve kan lægges på alle rene, tørre, jævne og faste undergulve som f.eks. cementafretningslag, anhydritbaserede afretningslag (calciumsulfat), støbeasfalt, V100-spånplader med en tykkelse på mindst 2 mm eller andre egnede træbaserede materialer såsom OSB. Ved flydende anhydritbaserede afretningslag skal sinterlaget slibes væk. Gamle undergulve skal være fri for limrester. Eksisterende elastiske eller tekstile underlag er ikke egnede og skal fjernes helt.

FORBEREDELSE AF UNDERGULVE
Undergulvet skal være tørt, rent, plant og fast.

Det er meget vigtigt at overholde kravene angående fugtighed. Alle relevante tests og forberedelser skal udføres, inden lægningen påbegyndes. Følg de instruktioner, der medfølger til limproduktet. Resultatet af limning afhænger af, hvor godt forberedelsen udføres.

I tilfælde af gamle gulvbelægninger skal disse altid fjernes eller behandles i henhold til limproducentens anbefalinger.

Kährs-parketgulve kræver en maksimal planhedsafvigelse på +/- 3 mm målt over 2 m. Hvis afvigelsen er større, skal undergulvet først nivelleres.

RENGØRING AF UNDERGULVET
Efterlad aldrig savsmuld eller andre organiske materialer på undergulvet.

PRODUKTOPBEVARING
Gulvbelægningen skal opbevares og lægges i et område, hvor den relative fugtighed (RF) er mellem 30–60 %.

Inden lægning af et trægulv kontrolleres det, at materialet og rummet har en minimumstemperatur på 18 °C.

Hvis beskyttelsesplasten er beskadiget, skal den repareres med tape for at undgå, at indholdet beskadiges af fugt.

LIM
Kontakt limforhandleren for at anskaffe en lim og en spatel, der er egnet til nedlimning af trægulve. Normalt er limtyper som polyurethan (PUR), modificeret silikone (MS) eller silantermineret polymer (STP/SMP) egnet til fuldlimning af overflader.

Undergulvet er afgørende for, hvad der er nødvendigt. Følg limproducentens instruktioner omhyggeligt.

Til limning af fer- og notsamlinger med korte ender anbefales det at bruge Kährs trælim 0,5 liter, artikelnr. 710225.

ÅBNING AF PAKKER
Trægulvet leveres klar til lægning. Hvis bundterne åbnes for tidligt, kan brædderne absorbere fugt og udvides, hvilket gør det sværere at få dem til at passe sammen.

Hvis bundter har været åbnet, skal de straks lukkes omhyggeligt igen med tape, så fugten ikke kan trænge ind og påvirke gulvbrædderne.

Pak dem ud, efterhånden som gulvet lægges.

SYNING
Det er altid lettere at afhjælpe fejl, som opdages i tide. Gør det derfor til en vane altid at syne produktet i forbindelse med lægningen. Sørg altid for, at syning og lægning sker i god belysning.

Brædder med åbenbare fejl, som kan eller skulle kunne konstateres før lægningen, må ikke lægges. Fejlbehæftede produkter kan naturligvis byttes hos leverandøren.

Erstatningskrav for installerede brædder med åbenlyse synlige fejl accepteres ikke.

LÆGNING:
Der vælges oftest en lægningsretning, hvor stavene eller brædderne lægges på langs i retning mod den største indkommende lyskilde. Dette skal aftales med kunden.

I gangarealer skal gulvbelægningen lægges på langs. For at opnå en jævnt mønster i starten af lægningen skal den første række lægges langs en fast lige kant, der er så lang som muligt.

Afhængigt af parketgulvets format fastgøres retholten til gulvet i en afstand af 2 til 5 pladebredder plus en afstand på 5 til 10 mm fra væggen.

Læg parketgulvet langs retholten med fersiden ind mod væggen.

Når området er dækket, fjernes retholten.

Vent lidt for at være sikker på, at de første rækker ligger fast og er tilpasset perfekt.

I tilfælde af uregelmæssige mønstre kan der anvendes en afsavet stump som startstykke i næste række. Endesamlingerne må dog ikke lægges for tæt på hinanden og bør som minimum ligge 500 mm forskudt.

Eventuelle korte stykker i pakken fra produktionen kan også bruges som start- eller endestykker. Undgå helt, at lim kommer i kontakt med oliebehandlede/lakerede overflader, især farvede oliebehandlede overflader.

Læg parketbrædderne på et klæbende leje med kort afstand, men så tæt som muligt på den tidligere lagte parket, og indsæt dem derefter i fer- og notsamlingen.

Vær særligt omhyggelig med at trykke brædderne ned langs kanterne og om nødvendigt veje dem ned, da undergulvet ofte er ujævnt i disse områder. Det er generelt en fordel at bruge vægte til at veje brædderne ned i ujævne områder, mens limen hærder. Kährs-parketgulve med fuld overfladeklæbning kan også lægges direkte op til keramiske gulve, søjler osv.

LÆGNING AF SILDEBENSMØNSTER
1. Med udgangspunkt i rummets center fastsættes en center - og en basislinie. Skær en plade - feks. spånplade i ca. 500x500mm størrelse. Pladen skal være helt vinkelret (90 grader). Fastgør pladen diagonalt mod centerlinien med skruer eller dobbeltklæbende tape. Lim herefter de første lameller langs pladen. Lad limen hærde de næste 24 timer.

2. Når limen er hærdet lægges de første to rækker.

3. Fortsæt med at lægge resten af gulvet.

GULVVARME:
Sørg for, at alle nødvendige test på gulvvarmesystemet er foretaget, inden gulvlægningen udføres. Gulvets overfladetemperatur må aldrig overstige 27 °C.

GENERELLE ANVISNINGER:
Lægning af parketgulve bør være det sidste, der udføres på en byggeplads, og alt arbejde såsom maling, som indfører fugt på byggepladsen, skal være afsluttet forinden.

Hvis der skal udføres andet arbejde, skal parkettet dog dækkes med et åndbart beskyttelseslag (ikke plastfolie), f.eks. Kährs-beskyttelsespap, artikelnr. 710179.

Undgå at sætte tape på parketoverfladen, da blødgøringsmidler kan beskadige overfladen. Sørg for at træde så lidt som muligt på gulvet i et par timer efter lægningen, da det tager ca. 24 timer for klæbemidlet på at hærdes tilstrækkeligt.

RENGØRING OG VEDLIGEHOLDELSE:
Kährs lakerede eller oliebehandlede parketbrædder er hygiejniske og lette at vedligeholde.

Efter installation skal oliebehandlede gulve behandles med Kährs Satin Oil.

Instruktioner til løbende vedligeholdelse og efter lægningen kan findes i vedligeholdelses-vejledningen fra Kährs på **www.kahrs.com**.

ES

GUÍA DE INSTALACIÓN DE SUELOS DE PARQUET KÄHRS CON JUNTAS DE MACHIHEMBRADO PARA UNA ADHESIÓN TOTAL.

ANTES DE PROCEDER CON LA INSTALACIÓN, LEA ESTE DOCUMENTO.
Almacene los paquetes con cuidado y protéjalos de la humedad. No abra los paquetes hasta que sean necesarios durante la instalación. Separe las tablas defectuosas o córtelas para utilizarlas para los acabados.

DESCRIPCIÓN GENERAL:
Siga las directrices y recomendaciones del fabricante del adhesivo para adherir las tablas a la superficie.

Utilice el martillo especial de Kährs para instalar y colocar las tablas individuales.

SOPORTES Y SUSTRATOS ADECUADOS:
Los suelos de parquet de Kährs se pueden instalar en cualquier soporte limpio, seco, llano y sólido, como los solados de cemento o de anhídrido (sulfato de calcio), la masilla asfáltica, los aglomerados V100 de un mínimo de 25 mm de grosor u otros materiales de madera adecuados, como el aglomerado de virutas orientadas. En el caso de los solados de anhídrido líquido, es necesario pulir la superficie sinterizada. Limpie los residuos adhesivos de los soportes anteriores. Los sustratos textiles o elásticos existentes no son adecuados. Deberán retirarse por completo.

PREPARACIÓN DEL SOPORTE
El soporte debe estar seco, plano, limpio y firme.

Es extremadamente importante prestar atención a las advertencias relacionadas con la humedad. Antes de proceder con la instalación, realice las pruebas y preparaciones pertinentes. Siga las instrucciones de uso del adhesivo. El resultado del proceso dependerá de cómo se hayan realizado los preparativos.

En caso de que el suelo anterior cuente con un recubrimiento, este deberá retirarse o tratarse de acuerdo con las instrucciones del fabricante del adhesivo.

La desviación máxima de planeidad para los suelos de parquet Kährs es de entre +3 y -3 mm sobre 2 m. Si la desviación es mayor, será necesario nivelar el soporte antes de proceder.

LIMPIEZA DEL SOPORTE
Asegúrese de que no queden restos de serrín o de otros residuos orgánicos en el soporte.

ALMACENAMIENTO DEL PRODUCTO
El material para la fabricación de suelos debe almacenarse e instalarse en zonas en que la humedad relativa (H) sea de entre el 30 y el 60%.

Antes de instalar suelos de madera, asegúrese de que la temperatura del material y de la estancia sea, como mínimo, de 18°C.

Si el plástico protector se daña, repárelo con cinta adhesiva para evitar que la humedad afecte al contenido.

ADHESIVO
Solicite al proveedor del adhesivo que le proporcione una espátula y un adhesivo apropiados para encolar suelos de madera. Los tipos más habituales de adhesivos adecuados para encolar superficies son el poliuretano (PUR), la silicona modificada (MS) y el polímero con acabado de silano (STP/SMP).

El tipo de soporte determina qué se necesita. Siga atentamente las instrucciones del proveedor del adhesivo.

Para el encolado de machihembrados de extremos cortos, se recomienda utilizar el adhesivo adhesivo para madera de Kährs de 0,5 l (n.º de art. 710 225).

APERTURA DE LOS PAQUETES
Los suelos de madera se suministran preparados paraser instalados. Si los paquetes se abren demasiado pronto, las tablas pueden absorber la humedad y expandirse, de modo que resultará más difícil colocarlas y ajustarlas.

En caso de que ya se hayan abierto, deberán volver a cerrarse minuciosamente con cinta adhesiva para evitar que la humedad afecte negativamente a las tablas.

Abra los paquetes durante la instalación y únicamente cuando sea necesario.

INSPECCIÓN
Siempre es más fácil reparar los desperfectos cuando se detectan con antelación. Asegúrese de inspeccionar siempre el producto antes de proceder con la instalación. Asegúrese de que la inspección y la instalación se realicen con una iluminación adecuada.

No use tablas con defectos evidentes que puedan o deban detectarse antes de la instalación. El proveedor correspondiente se hará cargo de sustituir los productos defectuosos.

No se aceptarán reclamaciones por tablas ya instaladas con defectos visuales evidentes.

INSTALACIÓN:
El parquet normalmente se coloca de modo que las líneas o las tablas se dirijan a lo largo y hacia la fuente de luz principal. Este punto deberá acordarse con el cliente.

En los pasillos, los suelos se colocan a lo largo. En el caso de los diseños enrasados, al empezar con la instalación, coloque la primera fila a lo largo de una regla de bornear tan larga como sea posible.

En función del formato del parquet, coloque la regla de bornear en el suelo a una distancia de entre 2 y 5 veces la anchura de la tabla y a entre 5 y 10 mm de la pared.

Coloque el parquet a lo largo de la regla de bornear con el lateral de la lengüeta hacia la pared.

Cuando haya acabado de cubrir la superficie, retire la regla de bornear.

Espere unos minutos para asegurarse de que las primeras filas no se muevan y se mantengan alineadas.

En el caso de los diseños irregulares, se pueden utilizar los retales para empezar las filas siguientes. Sin embargo, no coloque los empalmes demasiado cerca los unos de los otros. Se recomienda dejar un margen de 500 mm.

También puede utilizar cualquier pieza corta incluida en el paquete para empezar o terminar las filas. Evite que cualquier tipo de producto adhesivo entre en contacto con las superficies barnizadas o tratadas con aceites, especialmente las superficies tratadas con aceites y de color.

Coloque las tablas de parquet sobre la capa adhesiva y mantenga una pequeña distancia entre cada una similar a la que haya dejado entre las tablas anteriores. A continuación, introduzca la lengüeta en la ranura.

Preste especial atención a los extremos. Presione las tablas por los extremos y, si fuera necesario, sujételas con algún elemento pesado, pues en estas zonas suele haber desniveles. En general, el uso de pesos es muy útil para presionar las tablas hacia abajo en las zonas con desniveles mientras el adhesivo se endurece. Los suelos de parquet Kährs con adhesión total a la superficie también se pueden colocar directamente en suelos de cerámica, columnas, etc.

INSTALACIÓN EN ESPIGA
1. Sobre la base del punto focal en la sala, se debe establecer un centro y una línea de partida. Haga una loseta p.e. de aglomerado con medidas de 500x500 mm y con ángulos exactos de 90º. Fije la baldosa en diagonal a la línea central con tornillos o cinta adhesiva doble cara. Encole las primeras tablas a lo largo de la loseta. Deje endurecer el adhesivo durante 24 h antes de continuar con la insdtalación.
2. Una vez el adhesivo esté endurecido, continuar la instalando las dos primera filas.

3. Continuar la instalación.

CALEFACCIÓN POR SUELO RADIANTE:
Asegúrese de que se hayan completado todas las pruebas necesarias en el sistema de calefacción por suelo radiante antes de que comience la instalación del piso. La temperatura de la superficie del suelo nunca debe superar los 27 ° C.

NOTAS GENERALES:
La instalación de los suelos de parquet es la última tarea de cualquier obra. Los trabajos que creen humedad, como la pintura, deben realizarse previamente.

Sin embargo, en el caso de que haya más tareas pendientes, el parquet deberá protegerse con una capa transpirable (que no sea una película de plástico), como el papel de protección de suelos de Kährs (n.º de art. 710 179).

No enganche ningún tipo de cinta adhesiva a la superficie del parquet, pues los materiales plastificantes pueden dañarlo. Evite caminar sobre el suelo durante las horas posteriores a su colocación. El adhesivo tarda aproximadamente 24 horas en endurecerse correctamente.

LIMPIEZA Y MANTENIMIENTO:
Las tablas de parquet barnizadas o tratadas con aceite de Kährs son muy fáciles de mantener y limpiar.

Tras su instalación, los suelos tratados con aceites deberán volver a tratarse con el aceite Satin Oil de Kährs.

En **www.kahrs.com** encontrará la Guía de mantenimiento de Kährs, que incluye instrucciones sobre los procesos posteriores a la instalación y el mantenimiento continuo de los productos.

FR

GUIDE D’INSTALLATION DES PARQUETS KÄHRS MUNIS D’UNE JONCTION À LANGUETTE/RAINURE DESTINÉE AU COLLAGE SUR TOUTE LA SURFACE.

LIRE ATTENTIVEMENT LE PRÉSENT GUIDE AVANT DE PROCÉDER À L’INSTALLATION.
Stocker soigneusement les paquets, et les protéger contre l’humidité. Ne pas ouvrir les paquets tant que leur installation n’est pas nécessaire. Placer les lames défectueuses sur le côté, ou les couper et les utiliser pour les finitions.

DESCRIPTION GÉNÉRALE :
Les consignes et les recommandations fournies par le fabricant de la colle pour une adhérence sur toute la surface doivent être respectées à la lettre.

Pour installer et fixer les lames distinctes, le bloc de frappe Kährs doit être utilisé.

SOUS-PLANCHERS/ SUBSTRATS ADAPTÉS :
Les parquets Kährs peuvent être installés sur n’importe quel sous-plancher propre, sec, régulier et solide, comme des chapes en ciment, des chapes en anhydrite (sulfate de calcium), de l’asphalte coulé, des panneaux de particules V100 d’au moins 25 mm d’épaisseur, ou tout autre matériau adapté à base de bois, comme l’OSB. Avec les chapes liquides en anhydrite, la coulée de frittage doit être grattée. Les sous-planchers anciens doivent être exempts de résidu de colle. Les substrats élastiques ou textiles existants ne sont pas adaptés. Ceux-ci doivent être entièrement retirés.

PRÉPARATIFS DU SOUS-PLANCHER
Le sous-plancher doit être sec, de niveau, propre, et solide.

Les exigences en matière d’humidité sont extrêmement importantes. Des tests et des préparatifs adéquats doivent être effectués avant de procéder à l’installation. Les instructions relatives à la colle doivent être respectées, et le résultat du collage dépend de la qualité avec laquelle les préparatifs sont effectués.

En cas de revêtements de sol anciens, ceux-ci doivent toujours être retirés ou traités conformément aux instructions du fabricant de la colle.

La différence de planéité maximale requise pour les parquets Kährs est d’environ 3 mm (mesurée sur 2 m). Si cette différence est plus importante, le sous-plancher doit alors être nivelé en premier.

NETTOYAGE DU SUPPORT
Ne jamais laisser de sciure ou d’autres résidus organiques sur le support.

STOCKAGE
Le parquet doit être stocké et installé dans une zone qui présente un taux d’humidité relative (Rh) de 30 à 60 %.

Avant d’installer un plancher en bois, s’assurer que le matériau et la pièce présentent bien une température minimum de 18 °C.

Si le plastique de protection a été endommagé, poser sans tarder du ruban adhésif pour empêcher que l’humidité endommage le contenu.

COLLE
Consulter votre fournisseur de colle afin de vous procurer une colle et une spatule adaptées au collage de parquets en bois. Le type de colle classique adapté au collage sur toute la surface est une colle de polyuréthane (PUR), une colle de silicone modifié (MS), ou une colle polymérique à terminaison de silane (STP/SMP).

Le sous-plancher détermine les produits nécessaires. Suivre attentivement les instructions fournies par le fabricant de la colle.

Pour coller la combinaison languette/rainure de l’extrémité courte, la colle recommandée est la colle pour bois Kährs 0,5 l (réf. 710 225).

OUVERTURE DES PAQUETS
Le parquet en bois est livré prêt à être installé. Si les paquets sont ouverts trop tôt, les lames peuvent absorber de l’humidité et gonfler, ce qui les rend difficiles à assembler.

Si les paquets ont été ouverts, ils doivent être impérativement refermés soigneusement avec du ruban adhésif, de sorte que l’humidité ne puisse pas pénétrer à l’intérieur et endommager les lames.

Ouvrir ensuite les paquets au fur et à mesure de l’avance de la pose.

INSPECTION
Il est toujours plus simple de rectifier les défauts lorsqu’ils sont découverts au plus vite. Toujours prendre pour habitude d’inspecter le produit au moment de la pose. Toujours veiller à ce que l’inspection et la pose se déroulent sous un bon éclairage.

Les lames manifestement défectueuses, susceptibles d’être détectées avant la pose, ne doivent naturellement pas être posées. Les produits défectueux peuvent, bien entendu, être échangés auprès de votre fournisseur.

Aucune réclamation ne pourra être acceptée en cas de défaut visuel manifeste sur des lames déjà installées.

POSE :
Le sens de pose du parquet est généralement choisi de sorte que les frises ou les lames soient placées dans le sens de la longueur, vers la source de lumière entrante principale, et doit être convenu avec le client.

Dans les entrées, le revêtement de sol doit être posé dans le sens de la longueur. En cas de modèle à alignement, au début de l’installation, la première rangée doit être posée le long d’une règle fixe aussi longue que possible.

Selon le format du parquet, fixer la règle sur le sol à une distance de 2 à 5 largeurs de lames, en prévoyant en plus un espace de 5 à 10 mm par rapport au mur.

Poser le parquet le long de la règle, avec le côté de la languette tourné vers le mur.

Retirer la règle dès que la surface a été couverte.

Attendre un peu afin de s’assurer que les premières rangées ne bougent pas, et qu’un alignement parfait est bien maintenu.

En cas de forme irrégulière, il est possible d’utiliser la chute comme morceau de départ pour la rangée suivante. Cependant, ne jamais poser les joints d’extrémité trop près les uns des autres ; ceux-ci doivent être décalés d’au moins 500 mm.

Tout morceau de courte longueur (issu de la production) livré dans le paquet peut également être utilisé comme morceau de départ ou de fin. Éviter tout contact entre la colle et les surfaces huilées/laquées, et plus particulièrement les surfaces huilées de couleur.

Poser les lames de parquet dans le lit de colle en laissant un léger espace (le plus près possible de la lame posée précédemment), puis les insérer dans le raccord à languette et à rainure.

Veiller à bien appuyer sur les lames au niveau des bords, et, si nécessaire, poser un poids dessus, étant donné que le sous-plancher est souvent irrégulier au niveau de ces zones. Il est généralement utile d’utiliser des poids pour appuyer sur les lames dans les zones irrégulières pendant que la colle durcit. Les parquets Kährs à collage sur toute la surface peuvent également être installés directement sur des sols en céramique, des colonnes, etc.

INSTALLATION DU PARQUET EN BÂTON ROMPUS
1. Tout d’abord, vous devez vous baser en fonction de l’axe de la pièce. Pour vous aider, réalisez une dalle en aggloméré de 500x500 mm qui aura un angle de 90°. Posez la dalle en diagonale en vous servant de l’axe central. Pour maintenir la dalle au sol utilisez un ruban adhésif double face. Collez les premières lames le long de la dalle. Laissez la colle durcir 24h avant de poursuivre l’installation.

2. Après le durcissement de la colle, continuez d’installer les deux premières rangées.

3. Continuez l’installation.

CHAUFFAGE PAR LE SOL :
Veiller à bien tester les systèmes de chauffage par le sol avant de procéder à la pose.

La temperature a la surface du sol ne doit en aucun cas depasser 27 °C.

REMARQUES D’ORDRE GÉNÉRAL :
Le parquet doit être installé en dernier sur un chantier de construction ; toute intervention qui génère de l’humidité sur le chantier, comme les travaux de peinture, doit être réalisée auparavant.

Cependant, si d’autres travaux sont en attente, le parquet doit être recouvert avec une protection respirante (et non un film plastique), comme du papier de protection pour sols Kährs, réf. 710179.

Ne jamais coller de bande adhésive sur la surface du parquet, étant donné que les agents plastifiants peuvent endommager la surface. Marcher le moins possible sur le sol pendant les quelques heures qui suivent la pose, étant donné que la colle met environ 24 heures à sécher correctement.

NETTOYAGE ET ENTRETIEN :
Les parquets Kährs laqués ou huilés sont hygiéniques et faciles à entretenir.

Après leur installation, les sols huilés doivent être traités avec de l’huile satinée Kährs.

Pour en savoir plus sur l’après-installation et sur l’entretien continu des sols Kährs, consulter le guide d’entretien Kährs disponible sur **www.kahrs.com**.

IT

ISTRUZIONI DI POSA DELLA PAVIMENTAZIONE PARQUET KÄHRS CON MASCHIO/FEMMINA E INCOLLAGGIO DELLA TAVOLA.

LEGGERE ATTENTAMENTE LE ISTRUZIONI CHE SEGUONO PRIMA DI PROCEDERE ALLA POSA.
Conservare il prodotto in luogo protetto e asciutto. Aprire gli imballi solo al momento della posa. Scartare le eventuali tavole riscontrate difettose, oppure rifilarle e utilizzarle per la fase di finitura.

DESCRIZIONE GENERALE
Per l’incollaggio della tavola attenersi scrupolosamente alle istruzioni e raccomandazioni del produttore della colla.

Per la posa e il fissaggio delle tavole usare il blocco di battuta Kahrs.

SUPPORTI/FONDI IDONEI
Le tavole Kahrs Master Glue Down Flooring possono essere posate su tutti i tipi di supporti puliti, asciutti, piani e stabili tra cui intonaco di cemento, anidrite (solfato di calcio), asfalto colato, cartonfibra V100 da 25 mm di spessore (min.) o altri materiali legnosi come pannelli OSB. Per la posa su intonaco liquido anidritico, occorre procedere previa sabbiatura della pellicola corticale. I supporti delle pavimentazioni da ripristinare devono essere esenti da residui di adesivo. I supporti elastici o tessili non sono adatti. Devono quindi essere preventivamente rimossi completamente.

PREPARAZIONE DEL SUPPORTO
Il supporto deve essere asciutto, in piano, pulito e stabile.

I requisiti di umidità sono estremamente importanti. Le prove e la preparazione devono essere effettuate prima di iniziare la posa. Attenersi alle istruzioni del fabbricante della colla. Il buon risultato dell’operazione dipende in gran parte dal grado di efficienza della preparazione.

Occorre sempre asportare o trattare la pavimentazione esistente seguendo strettamente le raccomandazioni del fabbricante della colla.

Lo scostamento massimo della planarità per Kährs Bloc deve essere + o – 3 mm ogni 2 m. Se risulta superiore prima della posa occorrerà livellare il supporto.

PULIZIA DEL SUPPORTO
Rimuovere ogni traccia di segatura o altre sostanze organiche dal supporto.

CONSERVAZIONE DEL PRODOTTO
Il materiale da pavimentazione deve essere conservato e utilizzato in ambiente con umidità relativa (Rh) al 30 – 60%.

Prima di posare il pavimento in legno, assicurarsi che la temperatura del materiale e dell’ambiente sia 18 °C min.

Se l’involucro protettivo in plastica risulta danneggiato, risigillarlo mediante nastratura per evitare che l’umidità penetri e danneggi il contenuto.

COLLA
Per l’incollaggio dei pavimenti in legno consultare il fornitore di fiducia sul tipo di colla e spatola più appropriati. Per l’incollaggio della tavola si usano tradizionalmente gli adesivi poliuretanici (PUR), siliconici modificati (MS) o polimerici silanici terminati (STP/SMP).

Il materiale da utilizzare dipende essenzialmente dal supporto. Attenersi scrupolosamente alle indicazioni del fornitore della colla.

Per l’incollaggio maschio/femmina estremità corta, si consiglia di utilizzare Kährs Wood Adhesive 0,5 l Art. n. 710 225.

APERTURA DEGLI IMBALLI
Il pavimento in legno è fornito pronto per la posa. Se si aprono gli imballi troppo in anticipo si rischia la dilatazione delle tavole a causa dell’assorbimento di umidità delle stesse, con conseguente difficoltà di accoppiamento durante la posa.

Se gli imballi sono stati aperti, li si deve risigillare accuratamente mediante nastratura per evitare la penetrazione di umidità.

Aprire gli imballi solo al momento della posa.

CONTROLLO
Agli inconvenienti si rimedia sempre più facilmente intervenendo tempestivamente. Abituarsi sempre a controllare il prodotto al momento della posa. Il controllo e la posa devono essere eseguiti in condizioni di illuminazione ottimale.

Scartare le tavole eventualmente riscontrate difettose prima della posa. I prodotti difettosi saranno sostituiti dal rivenditore.

Non si accettano reclami per tavole riscontrate difettose dopo la posa.

POSA
Il senso di posa delle tavole o listelli del parquet è di norma identico alla direzione del fascio di luce della sorgente luminosa; esso dovrà comunque essere concordato con l’utente.

Nei corridoi la pavimentazione deve essere posata in senso longitudinale. Per il disegno sfalsato, a inizio posa sistemare la prima fila lungo un righello fisso il più lungo possibile.

A seconda delle misure del parquet, fissare il righello al pavimento alla distanza di 2–5 larghezze di tavola più luce di 5–10 mm dalla parete.

Posare le tavole lungo il righello con il lato linguetta dell’incastro rivolto verso la parete.

Dopo aver ricoperto la zona in questione rimuovere il righello.

Attendere brevemente che le prime file di tavole siano ben fissate per evitare spostamenti e per garantire il perfetto allineamento.

Per i disegni di forma irregolare servirsi dei ritagli per il punto di inizio della fila successiva. Occorre però evitare di posare i giunti di estremità troppo vicini tra loro, disassandoli come minimo di 500 mm.

Gli eventuali spezzoni corti inseriti nel pacco per motivi di produzione possono servire anch’essi come elementi iniziali o terminali. Evitare assolutamente che l’adesivo entri in contatto con superfici oliate/laccate, specialmente quelle colorate.

Posare le tavole sul letto di adesivo con una lieve luce ma comunque quanto più vicine possibile a quelle adiacenti, procedendo poi ad effettuare l’incastro.

Agire con la massima cautela nel comprimere le tavole in corrispondenza dei bordi, applicando eventualmente un peso su di esse per un breve periodo, onde neutralizzare gli effetti delle irregolarità del supporto spesso presenti in questi punti. Conviene applicare opportuni pesi su queste tavole fino all’avvenuta completa polimerizzazione dell’adesivo. I parquet Kährs a incollaggio su piena tavola possono anche essere applicati direttamente su pavimenti in ceramica, colonne, ecc.

SCHEMA DI POSA SPINA DI PESCA
1. Individuate il centro della stanza e stabilite la base da cui avviare la posa. Realizzate una quadrotta di ca. 500x500 mm con del truciolare cosicchè poter avere un angolo di 90° esatto. Fissatela poi diagonalmente sulla linea centrale con delle viti o con del nastro biadesivo. Incollate poi le prime tavole sui bordi della quadrotta. Lasciate agire la colla per 24 ore prima di continuare con l’installazione.

2. Quando la colla avrà aderito, continuate con l’installazione delle prime due file.

3. Procedete con l’installazione.

RISCALDAMENTO A PAVIMENTO:
Assicurarsi che tutti i test necessari sul sistema di riscaldamento a pavimento siano stati completati prima dell’inizio dell’installazione della pavimentazione. La temperatura superficiale del pavimento non deve mai superare i 27 ° C.

NOTE DI CARATTERE GENERALE
La posa dei parquet deve essere l’ultimo intervento da effettuare in cantiere. Le operazioni che comportano l’apporto di umidità (decorazioni, ecc.) devono esse completate prima.

Altrimenti, occorre proteggere il parquet con teli traspiranti (non fogli di plastica) o carta protettiva per pavimenti Kährs, art. n. 710179.

Non far uso di nastro adesivo sul parquet poiché i plastificanti possono danneggiare la superficie. Evitare al massimo il calpestio durante le prime ore dopo la posa, poiché la polimerizzazione completa dell’adesivo richiede 24 ore.

PULIZIA E CURA
Le tavole laccate od oliate Kährs sono igieniche e facili da pulire.

Dopo la posa, i pavimenti oliati devono essere trattati con olio satin Kährs.

Per le istruzioni di cura del pavimento dopo la posa e di manutenzione continua visitare il sito **www.kahrs.com**.

2025-USA

Kährs®

SUBFLOOR AND INSTALLATION PREP

RADIANT HEAT

KÄHRS WOODLOC®5S
KÄHRS WOODLOC®5G

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Altamonte Springs, FL 32701
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Jobsite and Subfloor Preparation

Note: These directions are based on industry standards and best practices. Warranty coverage may be lost due to your failure to strictly follow all installation instructions and recommendations and/or the use of improper materials or tools. For complete warranty information visit www.kahrs.com or call 1-800-800-5247.

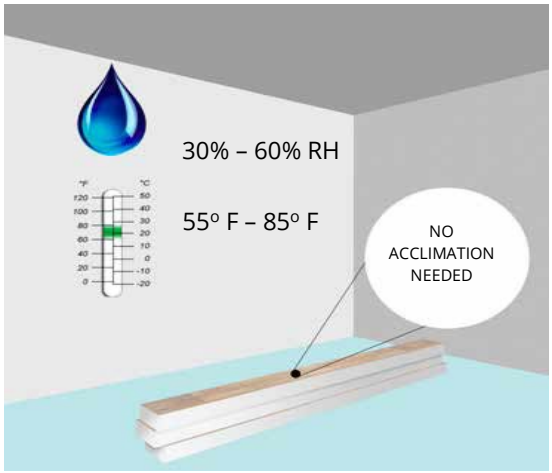
READ ALL INSTRUCTIONS CAREFULLY!
THANK YOU FOR CHOOSING KÄHRS FLOORING!

WARNING! INSTALLERS
WARNING: Drilling, sawing, sanding or machining wood products can expose you to wood dust, a substance known to the State of California to cause cancer. Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection. For more information go to www.P65Warnings.ca.gov/wood. Precautionary Measures: If power tools are used, they should be equipped with a dust collector. If high dust levels are encountered, use an appropriate NIOSH-designated dust mask. Avoid dust contact with eye and skin. First Aid Measures in Case of Irritation: In case of irritation, flush eyes or skin with water for at least 15 minutes.

GENERAL REQUIREMENTS FOR SUBFLOORS

A floor can only be as good as the subfloor allows.

Jobsite Interior Conditions



- Kährs products must be installed only in a climate-controlled environment, with doors and windows installed and an operational HVAC system.
- Acclimation is not necessary if the engineered flooring has been stored in a climate-protected environment, and if the jobsite is maintained within the manufacturer's recommended temperature and humidity range prior to and during installation.
- If these conditions cannot be confirmed or maintained, acclimate the flooring in the installation space for a minimum of 24 hours.
- Wood flooring should be one of the last items installed for any new construction or remodel project. All work involving water or moisture should be completed before flooring installation.
- **Relative Humidity** at the job site must be, and remain, in the range of **30% - 60%.** Temperature setting must be, and remain, in normal operating range of **55ºF - 85ºF**. Test and record (photograph) RH readings in each area where Kährs products will be installed.
- *Warning* - humidity levels below 30% will likely cause movement in the flooring, including possible dry cupping, face checking and gapping between planks.

Jobsite Exterior conditions

- Carefully inspect the outside surroundings for improper drainage and predictable or obvious sources of moisture. The yard should be graded (at least 6" in 10 ft.) to slope away from the foundation. Be sure that gutters and eaves sufficiently prevent rain from penetrating the foundation.
- Under the house: In homes with crawl space or pier-beam foundations, foundation vents must provide cross-ventilation with no dead air space. If excessive moisture exists underneath the house, you must lay a 6-mil black polyethylene moisture barrier on the ground in the crawl space below the installation area.
- Basement should be free of all moisture and be weather tight. Relative Humidity of basements should not be more than 10% higher than the upper floors.
- Exterior site/structure issues are NOT the responsibility of the flooring contractor/installer or Kährs.

Jobsite and Subfloor Preparation

Moisture and Testing

The installer must confirm subfloor moisture conditions are suitable before installing any hardwood floor.

Wood subfloor moisture must read under **12%** and differential between boards and subfloor must be less than 4%.

Concrete subfloor must be fully cured and at least 60 days old. Evaluate several areas, especially near exterior walls and walls containing plumbing. Document and keep all results.
Acceptable test methods for concrete subfloor moisture content include:
• TRAMEX Concrete Moisture Encounter Meter: Moisture readings should not exceed **4.5** on the upper scale. Concrete Moisture Meters give qualitative reading results-not quantitative ones. These results are a quick way to determine if further testing is needed.
Note: The following tests are required in residential/commercial applications. Either or both tests are acceptable.
• Calcium Chloride Test (ASTM F 1869): The maximum moisture transfer must not exceed **3 lbs**./1000 ft^2 in 24 hrs. (2lbs./1000 ft^2 for Radiant Heat installations).
• **RH** Levels in Concrete Using In-situ Probes (ASTM F 2170) should not exceed **75%**.

Moisture protection prevents the diffusion of moisture (moisture migration) between different building materials in a building and normally consists of 6 mil age-resistant polyethene film. Moisture protection on the following subfloors, whatever their age, is mandatory:

- underfloor heating
- concrete floor directly on the ground (ground-supported slab)
- floor above warm or humid areas (e.g. boiler room or laundry room)
- structural floor above a ventilated crawl space foundation
- lightweight concrete floor structures

Preparation and Specifications

- All subfloors must be **clean, structurally sound, dry, and flat**. Address any movement, delamination, squeaks/noise, water damage, physical damage, etc. prior to installation. Use a vacuum cleaner to remove any debris and dirt.
- Subfloor flatness is different from 'level'. Level is typically not necessary, but it is extremely important to level the subfloor to achieve the **flatness** of an **1/8"** in an 8′ radius. Check this by using the edge of a Kährs plank to find any high or low spots. Sand or grind high areas or joints. Fill low areas with a latex additive cementitious leveling compound of 3,000-PSI minimum compressive strength patch and underlayment. For more information on how to correct subfloor flatness, see *NWFA Installation Guidelines*.
- *Note*: Subfloor deflection and movement are the main cause of squeaking floors. If subfloor deflection exists measures must be taken to correct. Check NWFA guidelines for joist spacing and plywood thickness.
- All Kährs wood products installed over wood subfloors, lightweight or standard density concrete subfloors, or other existing floors with the float-in method must have Kährs ECO+, COMBO or QuietStride underlayment. QuietStride does not come with vapor barrier built-in, add 6mil polyethylene film for installations over concrete slab.
- Ceramic tile, resilient tile and sheet vinyl must be well-bonded to the subfloor, in good condition, clean and flat.
- Kährs floor should never be installed over an existing floating floor, over a carpet pad, or directly on joists or sleepers.
- Please refer to '*NWFA Wood Flooring Installation Guide*' for more information on subfloor types and recommendations.

Installation Environment Chart			
I. Grade Type	**Glue**	**Staple**	**Float**
Above Grade	Yes	Yes	Yes
On Grade	Yes	Yes	Yes
Below Grade	No	No	Yes
Over Radiant Subfloor	No	No	Yes
II. Subfloor Type	**Glue**	**Staple**	**Float**
Concrete (701lbs ft^3 density or higher)	Yes	No	Yes
Light-weight concrete (less than 2500 psi strength)	No	No	Yes
Min 5/8" CDX grade plywood	Yes	Yes	Yes
Underlayment grade particle board	No	No	Yes
3/4" OSB PS2 rated plywood	Yes	Yes	Yes
Old wood floors - above grade	No	No	Yes
Hardwood glued over concrete	No	No	Yes
Ceramic/Porcelain Tile	No	No	Yes
Vinyl asbestos tile	No	No	Yes
Resilient Tile / Sheet Vinyl	No	No	Yes
Rubber tile	No	No	Yes
Solid vinyl tile	No	No	Yes
Steel	No	No	Yes
Marble	No	No	Yes
Carpet	No	No	No

RADIANT HEAT APPLICATIONS, FLOAT-IN ONLY

General

Wood floors and underfloor heating are often combined nowadays and work well together. The heating system used – electrical or water – is of no significance to the wood floor. The underfloor heating system must deliver no more than 80 W/m^2 evenly distributed. The surface temperature of the floor must never exceed **81°F**. This applies even next to/above radiator pipes, above pipe runs and under carpets, furniture etc.

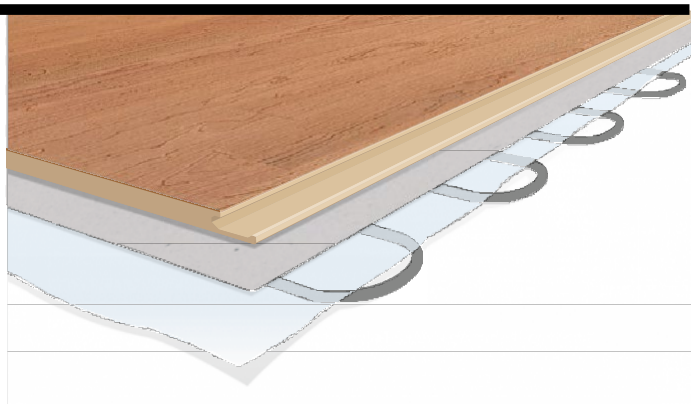
In a standard insulated house, with a properly functioning underfloor heating system, the temperature of the floor surface is generally 2°C higher than the room temperature. In a warm water underfloor heating system, the flow temperature is usually 7–12°C higher than the floor's surface temperature.

The installation instructions for each type of floor also apply to installation over underfloor heating. This section discusses issues particularly related to wood floors over underfloor heating.

Specific requirements for wood floors over underfloor heating:

- The floor construction must have a heat-distribution layer that gives a very even temperature across the entire floor area, to avoid excessive temperatures near the heat source.
- The entire living area must be heated. However, this does not apply to comfort heating systems, which complement normal heating. The temperature in this case is significantly lower than the permitted 81°F at the floor surface.
- The floor covering (including intermediate layer) should have low thermal conductivity.
- It must be possible to control and limit the surface temperature very accurately.
- Moisture content of lightweight concrete subfloor must not exceed 2lbs. on a dry-weight basis at time of flooring installation (calcium chloride test).
- Concrete must have been installed and cured for at least four (4) weeks with no heat transference.
- Heating system should then be run at a maximum 2/3 output for a minimum of two (2) weeks to allow any remaining moisture to evaporate, attaining its final moisture content without causing damage.
- 3-4 days before flooring installation, the heating system must be reduced to suitable temperature (about 64° F or 18° C).
- The installed floor's temperature must never exceed 81°F. This also applies under carpets and furniture.
- A vapor barrier must be built into the floor construction. This should be as close to the wood floor as possible. It is particularly important that the vapor barrier is close to the wood floor if the structural floor is thick or heavy. Under no circumstances must the vapor barrier be on the opposite side of the structural floor.
- The wood floor must lie tightly to the substrate, without air gaps that may cause substantial drying of the wood.
- Provided the conditions above are met, both warm water and electrical underfloor heating systems are suitable for use with Kährs wood floors.

Note: Placing thick rugs on wood floors can result in damaging high temperatures.



INSTALLATION: FLOAT-IN ONLY!!!

Floating installations require the use of Kährs Combo or Eco+ underlayment. QuietStride underlayment needs to be installed over 6 mil plastic. These products are warranty approved for Radiant Heat installations.

Hard Maple (Canadian Maple) and Beech floors expand and contract more than other species. Kährs does not recommend the use of Beech or Maple over Radiant Heat.

R-VALUE:

Kährs Original 15mm	1.15R
Kährs Avanti 13mm	1.12R
Kährs Life 7mm	.34R
Combo System Underlay	.39R
QuietStride Underlay	.40R

AFTER INSTALLATION

Beginning approximately two (2) days after installation is complete, gradually (over period of one week) raise temperature of heating system to its desired operating level. Surface temperature must never exceed 81° F (27° C).

Underfloor heating gives the ideal distribution of heat within a living space.

NOTES

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