

## Radiant Heat Applications, Float-In Only

### NOTES:

- ***Kährs flooring is covered by a Limited Lifetime Guarantee. However, Guarantee coverage may be lost due to failure to strictly follow all installation instructions and recommendations or the use of improper materials or tools. READ ALL INSTRUCTIONS CAREFULLY.***
- ***Beech and Maple expand and contract more than other species of wood. Thus, 20mm product is susceptible to face cracks and gapping. This is NOT a manufacturing defect but should be taken into consideration when choosing these species for your Radiant Heated floor.***
- ***Only Float-In installations are acceptable for Radiant Heat subfloors.***

### IMPORTANT!

- ***Do not open packages until ready to begin installation!*** Inspect boards before installation. Kährs flooring is sealed at the factory with a 7% moisture content. Opening cartons to acclimate the flooring (as with some solid strip flooring) could result in a difficult installation.
- As an installer, it is your 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. Any unusable boards should be set aside for later replacement.

### Subfloor Specifications

- Surface of subfloor must be level to within 1/8" in an 8' radius.
- Concrete subfloors must not contain more than 2lbs. moisture on a dry-weight basis. Moisture content of wood subfloors should be between 6-10% moisture content.
- Subfloor must be clean.
- Relative humidity at the job site must be, and remain, minimum 30%, maximum 60%. Temperature setting must be, and remain, within 15° F of normal operating range.

### Jobsite Evaluation

- Before floating a Kährs floor over a radiant heat subfloor, inspect jobsite thoroughly. Lightweight-concrete and heating system must be laid correctly according to manufacturer's specifications.
- Before installing a Kährs floor over a Radiant Heat system, the following conditions must be met:
  - A) Moisture content of lightweight concrete subfloor must not exceed 2lbs. on a dry-weight basis at time of flooring installation (calcium chloride test).
  - B) Concrete must have been installed and cured at least four (4) weeks with no heat transference.
  - C) Heating system should then be run at 2/3 maximum output for minimum of two (2) weeks to allow any remaining moisture to evaporate, attaining its final moisture content without causing damage.

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### Jobsite Evaluation (con't.)

- D) Three or four days before flooring installation, heating system must be reduced to suitable temperature (about 64° F or 18° C).
- E) Subfloor level should not vary more than 1/8" in an 8ft. radius.

### Preparation

**Lightweight Concrete:** To prepare concrete subfloor for installation, scrape any high spots.

**Plywood:** To prepare a plywood subfloor for float-in installation, re-nail any loose areas or areas with squeaks. Sand and/or plane any high spots and fill any low areas. Use caution not to damage radiant heating system.

**Door casings** should be notched or undercut to avoid difficult scribe cuts . Sweep or vacuum subfloor thoroughly.

### Installation

Floating installations require use of Combo System Foam underlayment or Quietstride installed over 6 mil plastic. These products are warranty-approved or Radiant Heat installations.

If installing a Kährs Woodloc, Woodloc 5S, or Tongue & Groove floor over radiant heat, please refer to appropriate installation guide at [www.kahrs.com](http://www.kahrs.com).

**Double gluing of grooves is required for Traditional Tongue & Groove!** Double gluing (Fig. A) increases the strength of the bond between boards by 90% over single gluing.

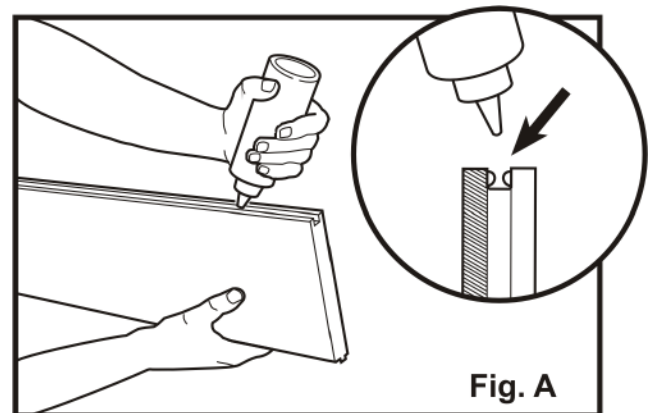


Fig. A

### R-Value: Kährs Flooring

Kährs (14, 15mm) flooring = 1.15 R

Combo Foam Underlayment = .39 R

Spirit Woodloc™ 10mm flooring = .56 R

Supreme 20mm = .81 R

QuietStride Underlayment = 0.40 R

Linnea Woodloc™ (7.4mm) flooring = .34 R

Kährs Woodloc™ 14mm flooring = 0.80 R

### 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).**