

## r a d i a n t   f l o o r   h e a t i n g   a n d   h a r d w o o d   f l o o r i n g

BR-111™ Exotic Hardwood Flooring does NOT recommend the use of the Indusparquet® Solid line of flooring over radiant floor heating. The solid product lines are a mix of quarter sawn and flat sawn boards. Wood is an anisotropic material, meaning that it shrinks/swells in the direction of the annual growth rings when flat sawn and about half as much across the rings when quarter sawn. The combined effects of quarter sawn and flat sawn shrinkage due to radiant heat can distort the shape of the board or leave uneven shrinkage gaps at the end of a heating season. It is for these reasons that BR-111™ recommends the use of their ENGINEERED lines over certain styles of radiant heat.

The BR-111™ 5/16" Engineered, Dolomites Engineered, and Triangulo® Engineered lines of products are recommended over Hydronic styles of radiant heat. In a hydronic system, water is heated by a boiler or water heater and circulated through tubes buried in the floor. The floor will absorb this energy and give it off as radiant heat. The tubes must be encased in concrete or completely under a ¾" plywood sub-floor. Radiant heating systems where the tube is directly under the hardwood flooring boards, or systems where the tube is laid and separated with a plywood sleeper (with nothing on top of the tube) are not recommended with BR-111™ products.

### Installation of BR-111™ Engineered Flooring over Radiant Heat

- BR-111™ recommends 5/16" Engineered, Dolomites Engineered, and Triangulo® Engineered flooring products for use over Hydronic style radiant heat systems, where the water tube is fully encased in concrete or under ¾" plywood.
- BR-111™ flooring products are not recommend for use with any other style of radiant heat.
- All BR-111™ instructions for installation of this product should be followed.
- The radiant heat system should be run at two thirds of the of maximum output for a minimum of seven days to allow any remaining moisture to disperse.
- Four days before flooring installation is to commence, the heating system should be turned off.
- The floor is then installed using BR-111™ instructions. A moisture cured urethane glue must be used for direct glue down installations. Use a moisture barrier or 2 in one pad for floating installations.
- Approximately three days after installation is completed, gradually over a period of a week raise the temperature of the heating system to its desired operating level.
- It is advised to use this form of gradual increase in heat for the start of every heating season.
- Surface temperature should never exceed 85°.
- Call the Customer Service Department (800-525-2711) at BR-111™ for further discussion.

**Note:** Engineered flooring with a thick-sawn wear layer, such as the Dolomites and Triangulo® Engineered lines, require a controlled room environment of 35-55% relative humidity. If the relative humidity drops below the recommended 35% in the winter heating season, a humidifier is recommended to avoid unsightly face checking or cracking of the wear layer.