

## Underfloor heating with Ecodure Bamboo and Oak Flooring

- Is our flooring suitable for use with underfloor or in-floor heating? The answer is a cautious yes, with strict limitations on the installation and operation of the heating, please see our Terms and Conditions and Warranty. Owners need to make a commitment to understanding both the natural inherent qualities of the flooring and how their heating works and will operate. It must always be remembered that timber floors whether Bamboo, Oak or any other species are a natural product that are expected to change with environmental conditions. The use of heating and cooling, whether underfloor, from fireplaces, heat pumps, heat gain through windows, very cold or dry weather, are among the factors that can influence this. Sometimes one factor alone can be enough to cause issues with a floor, or several factors added together can be detrimental. *IMPORTANT NOTE – our Installation Guides are on our website, and our Terms and Conditions and Warranties are available by contacting [sales@ecodureflooring.co.nz](mailto:sales@ecodureflooring.co.nz). Failure to follow our procedures will result in Warranties being voided;*
- Underfloor heating will be much more effective where floors are tiled or carpeted. In our view most of the benefit of having underfloor heating is lost through the combination of the insulating property of the underlay and the 14mm thickness of the flooring itself, so there is very little benefit to be gained in having it. Conversely, a wood overlay floor is effective at reducing heat loss through your floor and you will usually find that area heating is sufficient to keep you and your floor comfortable. As a rule, if a floor is warm to touch it is most likely being run at too high a temperature;
- There are many brands, types and methods of underfloor heating, so it can be very difficult to give specific advice. However this general information is a starting point if you have, or are considering this type of heating;
- If you have underfloor heating, strict operating limits must be followed for the lifetime of the floor. The only Bamboo or Oak option for this situation would be a floating, Engineered Bamboo or Oak floor. As our Accord Premium Underlay is not ideal for heat transfer due to its insulating properties, we would suggest using a foil underlay obtainable from Mitre 10 or Bunnings. Engineered floors combine layers of Bamboo or Oak and other timber, into planks. The 'engineering' or glueing of the layers in opposing directions gives a more stable plank than solid Oak or Bamboo. However even Engineered floors have limitations, as the flooring is inherently a living breathing product and not a good conductor of heat compared to carpet or tiles;
- **Operating limits for underfloor heating:** the unit which controls the amount of heat produced must never be allowed to exceed 27 °C. **Your heating installer must permanently set all parts of the system so that it cannot be turned to more than 27°C.** Room thermostats must not be above 24-27°C. (This is not the same as a room air temperature of 27°C). To allow a margin for error it would be wise to operate the system at a few degrees below the ideal temperature above;

- The system must provide an even heat over the whole floor.  
**IMPORTANT NOTE** - *Adjacent heated flooring may have the effect of heating the flooring it is next to – take due care;*
- All other site, building design and environmental conditions must be factored in as usual;
- The underfloor heat should be left at a constant temperature year round, as weather cools or warms up, turn it up or down by one degree Celsius per day in the autumn and spring, until the desired/recommended temperature is reached. A starting point and off-season or unoccupied temperature of 13°-15°C is usual. Leave the system running year-round so the environment remains as constant as possible;
- 48 hours prior to installing the flooring, turn the system off. Allow at least 48 hours after the floor is completed before using your heating;
- Our usual advice for installation such as dryness of concrete and other subfloors, environmental conditions, care and maintenance apply;
- If you sell your home or have tenants or visitors please pass on this advice in the use of the system, and give them a copy of our maintenance guide, obtainable on the website.

Failure to fully follow these guidelines and specifications may affect Warranties

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