



To be read in conjunction with Myson technical guide - underfloor  
For full technical and installation guide ref [www.cathedralflooring.com](http://www.cathedralflooring.com) and [www.myson.co.uk](http://www.myson.co.uk)

### Cathedral Flooring composition.

15mm Birch/Alder plywood substrate with 6mm hardwood wear layer.

#### Lateral Expansion comparison

Given a constant relative humidity change of 4% the expansion rate of solid Oak is 1%.

Possible expansion or contraction of a 5m wide floor across the lay of the boards = 50mm.

Given a constant relative humidity change of 4% the expansion rate of plywood is 0.02%.

Possible expansion or contraction of a 5m wide floor across the lay of the boards = 1mm.

Blockboard core products are more stable than solid hardwood but nowhere near as stable as plywood. Cathedral flooring has succeeded in circumstances where many alternative products would have failed.

### Underfloor Heating Compatibility

#### Underfloor heating laid in concrete or screed

Sequence of components when laid over underfloor heating laid in concrete or screed. (ref Myson TG pages 5 to 7)

Damp proof membrane

Insulation

Underfloor Heating pipes in screed / concrete

1.5mm poly foam underlay

Secondary damp proof membrane

Heat Diffusion / strapping board. Minimum thickness 6mm and maximum 20mm Chipboard / Ply or similar floated. It is also possible to stick this down with a suitable adhesive that also acts as a damp barrier.

Obviously in this case the 1.5mm poly foam underlay and secondary damp proof membrane will not be required

Cathedral flooring glued down with D3 PVA comb trowled to distribution board and 3mm bead glued to top of tongues. If the distribution board is 15mm or more this enables the flooring to be random secrete nailed for hold down whilst the glue is curing.

#### Underfloor heating laid in a floating floor system.

Sequence of components when laid over underfloor heating laid in a floating floor system. (ref Myson TG page 8)

Damp proof membrane

Floating floor panel (Pre - grooved)

Aluminium diffusion plates

Underfloor heating pipes

Heat Diffusion / strapping board. 20mm Chipboard / Ply or similar floated.

Cathedral flooring glued down with D3 PVA comb trowled to distribution board and 3mm bead glued to top of tongues. If secrete fixings are to be used to assist laying, take care to make sure they are not long enough to protrude beneath the distribution board for fear of damaging the underfloor heating pipes.



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### Underfloor heating laid in a suspended floor system

Sequence of components when laid over underfloor heating  
laid in a suspended floor system. (ref Myson TG page 9)

Insulation between joist  
Aluminium diffusion plates  
Underfloor heating pipes

Heat Diffusion / strapping board. Minimum thickness  
6mm and maximum 20mm plywood or 18mm Chipboard or  
similar. Nailed to joist with ring shank nails.

Cathedral flooring glued down with D3 PVA comb trowled to  
distribution board and 3mm bead glued to top of tongues.  
If secrete fixings are to be used to assist laying, take care  
to make sure they are not long enough to protrude beneath  
the distribution board for fear of damaging the underfloor  
heating pipes.

### General information

It is essential to take note of the full technical and  
installation guide ref [www.cathedralflooring.com](http://www.cathedralflooring.com) before  
embarking on the installation of cathedral flooring or indeed  
any other form of hardwood flooring with underfloor heating.

Particular attention should be given to site procedures and  
operating procedures of the underfloor heating systems.

Installation and ongoing site supervision is critical for  
success.

If the finished floor is to be protected with a board material  
until it is put into normal use the heating must be set to  
minimum to prevent the floor from baking due to trapped  
heat. It may be necessary for secondary heating to be used  
on a temporary basis to achieve the correct room conditions  
to safe guard the flooring in this instance.

### Clip system

An edge sprung clip system is in development by Cathedral  
Flooring but will not be available until all testing is complete.  
Anticipated release early 2005.

We have found that existing clip systems that are on the  
market have limited success due to the fact that the clips  
can not cope with the expansion and then contraction of  
larger floors causing the clips to stretch and therefore wide  
gaping of the boards.

### Myson Underfloor Heating

Myson underfloor Heating sponsor our test facilities.  
Together we share experience and technical information.  
The reference to them in this publication is for reference to  
their systems only and not at this time an endorsement for  
our products.