Just Hardwood Floors
"enduring timber flooring solutions"

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This specification is one of a series based on installation systems we have tailored to meet our needs and rigid performance requirements and have used over the past five years.
This information is designed to assist Architects in specifications where timber flooring is required.

*As a solid timber and timber veneer flooring supply and installation company we can be contacted re the **supply of any specified product**. And, we would appreciate the opportunity of **quoting for your timber flooring work** NZ wide.*

SOLID T&G FLOORING OVER BATTENS OVER CONCRETE SUBFLOOR

The purpose of this system is usually to raise the subfloor height.
It is not recommended to install T&G over battens directly over underfloor heating, some form of insulation should be used to protect the T&G.
In general it is recommended that ***40mm polystyrene*** is placed between battens to minimise noise and prevent moisture problems from developing due to the air space being present between battens.

1. PRODUCTS

1.1 CONCRETE SEALER
Selleys "VBS" 2 pot epoxy vapor barrier system.

1.2 ADHESIVE FOR BATTENS
Selleys Direct Stick Adhesive

1.3 BATTENS
Kiln Dried dressed H1 battens.

1.4 MECHANICAL FIXING FOR BATTENS (only suitable if u/f/heating not present)
Counter sunk Dyna bolts or other suitable masonry anchor

1.5 SOLID T&G FLOORING TIMBER
Preferably "end matched" and kiln dried to a moisture content to match the proposed finished installation environment, plastic wrapped and stored flat & inside until installation start.

1.5 POLYURETHANE
Uroxsys MCUV non-yellowing moisture cured polyurethane.

2. INSTALLATION

2.1 PRIOR TO STARTING ANY WORK
Start installation only when the building is fully enclosed, when all "wet" trades have finished and when any heating or air-conditioning systems are operating.

2.2 SUBFLOOR
Ensure the subfloor is clean & dry and level to the BRANZ Specification of maximum 5mm over a 3meter straight edge in any direction.

2.3 SUBFLOOR PREPARATION
Diamond grind the entire floor area to remove surface layer, high spots and construction debris to ensure the best possible key to the slab.

2.4 MOISTURE BARRIER
Vacuum clean the diamond ground slab and apply ***Selleys*** VBS vapor barrier to the manufacturers specification, restrict traffic & allow 6 – 8 hours to dry.

2.5 LEVELLING
Fill any low spots with a proprietary leveling compound and primer over the VBS following the manufacturers specifications. We use and recommend the K15 system with Ardon 25 and Ardex 82 2-pot primer applied over the VBS. The primer is applied before leveling, to ensure a strong bond between the VBS & leveling compound. Note: Levelling compound, if applied underneath the VBS vapor barrier may be weakened by the presence of trapped moisture in the concrete slab. Follow manufacturers instructions.

2.6 BATTENS
Fit battens to entire perimeter and floor area at 300mm-450mm MAX centers, double fixed with ***Selleys*** Direct Stick Adhesive and counter sunk Dyna bolts or other suitable masonry anchor at 2 fixings per lineal metre of batten. (NO NOT USE DYNA BOLTS OVER UNDERFLOOR HEATING)

2.7 SOLID T&G MOISTURE CONTENT
Check the moisture content of the timber flooring and ensure it is at the desired level for the installation environment.

2.8 T&G INSTALLATION
Install timber flooring over battens using double fixing system of ***Selleys*** Direct Stick Adhesive & secret nailing with 40-45mm staples using a pneumatic flooring stapler/hit up gun. Apply the adhesive directly onto the joists and following manufacturers specifications.

2.9 EXPANSION SPACES
Leave expansion spaces to the timber suppliers specifications at all fixed objects, walls and flooring transitions/junctions.

2.10 ACCLIMATISATION
After installation allow flooring to acclimatise to the environment for at least 2 weeks with any air conditioning or heating running.

3. FINISHING

3.1 SANDING & COATING
Sand the surface flat, trowel fill the entire floor to fill all gaps and fine sand. Apply 2 coats of ***Uroxsys*** MCUV Gloss non yellowing moisture cured polyurethane and 1 coat of **Uroxsys** MCUV Low Sheen (Matt or Satin finish) non yellowing moisture cured polyurethane to the manufactures specifications and spread rates.

3.2 PROTECTION
After final coat restrict all traffic for 48 hours then allow only light, clean traffic for 7 days to allow polyurethane to fully harden. Once the polyurethane has fully hardened it may be covered by corrugated cardboard to protect it from trade damage (vacuum carefully first). Avoid covering within first 7 days and avoid covering with plastic at any stage.