

## K21 TIMBER STRIP/BOARD FINE FLOORING/LININGS

To be read with Preliminaries/General Conditions and Sections AA/31 and AA/90.

### GENERAL REQUIREMENTS

#### 100 TIMBER PROCUREMENT:

- All timber used in permanent and temporary works and timber for wood based products, (including formwork, shuttering, hoardings and other site installations), shall originate from sustainable well-managed forests and/ or plantations and be legally sourced, in line with the UK Government Timber Procurement Policy (<http://www.cpet.org.uk>).
- Procurement generally to be in accordance with:
  - The laws governing forest management in the producer country or countries.
  - International agreements such as the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES - [www.cites.org](http://www.cites.org)). Timber should not be on the CITES endangered list (or in the case of Appendix III of the CITES list, it has not been sourced from the country seeking to protect this species as listed in Appendix III).
- For all wood products provide signed documentary evidence/certification (which has been or can be independently verified) to confirm source from managed forests and the entire chain of custody from origin to final supply, from at least one of the following authorities:-
  - FSC (Forestry Stewardship Council: [www.fsc-uk.org](http://www.fsc-uk.org) )
  - PEFC (Programme for the Endorsement of Forest Certification: [www.pefc.org/](http://www.pefc.org/)).

#### 101 HARDWOOD SOLID AND THICK VENEER – SELECTION:

- Solid hardwood: Submit samples of specified hardwood for Architect's approval.
- Veneers: To be taken from a related group of whole logs of specified hardwood to maintain grain pattern, grain density and colour.
- At an appropriate time within the programme arrange for the Architect to inspect and select the flitches of sliced veneer to be used for the flooring for this specific project.

### TYPE(S) OF FLOORING/LINING

#### 110 WOOD FLOORING TO GREAT HALL:

- Note: The following specification is based on quality and appearance and allows a series of options for the Contractor to procure the flooring work package.
- Drawing reference: 597-12103, 13074, sections and cross referenced detail drawings.
- Substrate: Screed replacement tile and decoupling membrane as part of dry installed underfloor heating system as K11/280.
- Level base for flooring: Prepare substrate to achieve a maximum permissible gap under a 3.0m straight edge of no more than 3mm.
- Vapour control layer: Not required.
- Flooring boards: Free from decay, through splits and insect attack (including ambrosia beetle damage, unless permitted in the class/ grade specified). Planed all round.
- Flooring type: As subcontractor's preferred construction to achieve the appearance and performance requirements of this specification.
- Fixing method: Floating or fixed.
- Wood species:
  - Solid or composite boards comprising: -
    - Solid board or finish veneer: *European Oak (Quercus robur)*.
    - Cut: Quarter Cut.
- Treatment: Fumed or caramelized to match colour of original Great Hall Victorian oak wall panelling.
  - Composite board:
  - Veneer: Minimum thickness – 5mm.
    - Inter layer: As required for composite boards, using birch plywood lamination (WBP adhesive) or similar as flooring manufacturer's recommendations.
    - Balance veneer: Hardwood, to matching thickness.
- Appearance class of solid board or finish veneer to BS EN 942: Class J2, except that sound knots up to 10mm are permitted, but to be kept to a minimum. To match an approved sample.

- Random length: 2.5-3.3 m.
- Finish face width: 100mm (nominal).
- Finished thickness: As subcontractor's preferred construction to achieve the appearance and performance requirements of this specification. Allow for 22 mm.
- Edges: Chamferless with square edges or side and end matched (tongued and grooved).
- Moisture content at time of fixing: 6% to 9% or as recommended by flooring manufacturer.
- Method of joining: Tight butt-jointed or tongued and grooved as subcontractor's preferred construction. Adhesive fixed as flooring manufacturer's recommendations.
- Finish: Sand completed strip/board flooring with an electric surfacing machine to give a clean, smooth and flush surface free from score marks. Small defects to be filled with oak flour and resin.
- Sealer:
  - Base coat: Pigmented sealer as recommended by flooring manufacturer.
  - Final coats: As M60/137 or equivalent as recommended by flooring manufacturer.
- Accessories:
  - Matching threshold strips at door openings.
- Special requirements:
  - Dais extension as N20/130: Wood flooring to moving platforms to run through as Great Hall main floor, All joints to align.
- Other requirements:
  1. Pattern: Long strip running lengthways (north / south) along length of Great Hall.  
Long strip running east / west to fixed dais.
  2. Access panels / floor boxes to Services Engineer's requirements.
  3. Expansion gaps to perimeters, as manufacturer's recommendations, and as clause 360.
  4. Intermediate expansion tolerances as recommended by manufacturer.
  5. Installation of flooring system to be carried out by a subcontractor approved by the flooring manufacturer.
  6. Finished floor to be stable, to avoid future movement between boards, with no warp or twist and no creaking.
  7. Maintenance requirements as K21/400
  9. Access panels for underfloor heating manifolds as K21/150.