THE NEW SURREY HOSPITAL AND

BC CANCER CENTRE PROJECT

Schedule 1 – Statement of Requirements

Appendix 1C – Wood First Appropriate Use Matrix

APPENDIX 1C - WOOD FIRST APPROPRIATE USE MATRIX

Area of Usage	Appropriateness	Justification and Building Code or Regulation Reference / Permission or Restriction
Construction		
Wood Formwork	Appropriate	WorkSafeBC Temporary formwork designed by an engineer.
Wood Hoarding, Access Ways, Stairs, Guards & Ladders	Appropriate	Temporary construction installations designed by an engineer.
Substructure		
Wood Shoring	Appropriate	BCBC 2018 Div. B Part 4 Design by an engineer.
Structure		
Wood Walls, Columns, Beams, Floor and Roof Decks	Inappropriate	Not permitted by BCBC Acceptable Solutions
Wood Stairs and Guards	Inappropriate	Not permitted by BCBC Acceptable Solutions
Heavy Timber Structure	Potentially Appropriate as an 'Alternative Solution'	Although the base building structure is required to be of non-combustible construction, proponents are strongly urged to consider a heavy timber design that could be integrated as a 'secondary' structure or decorative installation for specific feature areas.
Misc.		
Wood Blocking within wall assemblies	Appropriate	3.1.5.2. Minor Combustible Components Intended for attachment of handrails, fixtures, and similar items
Roof		
Wood roof components	Appropriate	3.1.5.3. Combustible Roofing Materials Cant strips, roof curbs, nailing strips, and similar components. Parapets not more than 600 mm high, where occurs. 3.1.15. Roof Covering
Wood nailer facings to parapets	Appropriate – conditional and only as approved by the Authority.	
Wood Roof Covering	Inappropriate	Roof is required to have classification determined to CAN/ULC-S107.
Fenestration	1	
Wood Window Framing	Inappropriate	Ability to clean and water/chemical resistance are paramount in this location.
Exterior Walls		
Wood Cladding	Appropriate – conditional and only as approved by the Authority.	3.1.5.5 Combustible Cladding on Exterior Walls Building sprinklered throughout. Tested to CAN/ULC-S134 Fire Test of Exterior Wall Assemblies, satisfying stipulated criteria for testing and conditions of acceptance that include weather resistance.
Wood Components in Exterior Walls (sheathing, strapping, or similar)	Appropriate – conditional and only as approved by the Authority.	3.1.5.6. Combustible Components in Exterior Walls Building sprinklered throughout. Tested to CAN/ULC-S134 Fire Test of Exterior Wall Assemblies, satisfying stipulated criteria for testing and

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		conditions of acceptance, or be protected by masonry or concrete cladding not less than 25mm thick.
Misc.		
Wood Nailing elements		3.1.5.8. Nailing Elements
	Appropriate	attached directly to or set into a non-combustible backing for the attachment of interior finishes are permitted provided there is no air space of more than 50 mm thick.
Millwork and Doors	<u> </u>	
Wood millwork	Appropriate— conditional and only as approved by the Authority.	3.1.5.9. Combustible Millwork Includes interior trim, show windows & frames, aprons & backing, handrails, shelves, cabinets & counters, and
	Appropriate for offices	signs. In clinical areas no wood is not be exposed.
Wood interior doors	Inappropriate for Planned ORs and MDRD	Doors and door frames, including those requiring a fire- protection rating up to 1.5 h.
Wood exterior doors	Appropriate – conditional and only as approved by the Authority.	Inappropriate for high metal cart and material transport traffic areas, and high humidity, clinical and MDRD areas.
Flooring		
Hardwood finished flooring	Appropriate – conditional and only as approved by the Authority.	3.1.5.10. Combustible Flooring Elements Outside Group B occupancy, limited to certain high-end low traffic, non-clinical locations and areas, not subject to low acoustic or high usage requirements.
Interior Finishes		
Wood wall finishes	Appropriate – conditional and only as approved by the Authority.	3.1.5.12. Combustible Interior Finishes Subject to 3.1.13 Interior Finish (flame spread ratings) Wood wall finishes for aesthetic and acoustic requirements in certain, non-clinical areas within the building provided that they are not more than 25 mm thick with a flame spread rating (FSR) not more than 150.
Wood ceiling finishes	Appropriate – conditional and only as approved by the Authority.	To be limited to high end finished areas which are not impaired by acoustic and high usage requirements. Wood ceiling finishes for aesthetic requirements in certain, non-clinical areas within the building provided that they are not more than 25 mm thick with a flame spread rating not more than 25, and except for not more than 10 percent of ceiling area in a fire compartment is permitted to have an FSR of up to 150. To be limited to high end finished areas which are not subject to low acoustic or high usage requirements.
Partitions		
Partition framing	Inappropriate	3.1.5.16 Combustible Elements in Partitions
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		Solid lumber, permitted to the limits stipulated in the article

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Exterior Finishes				
Wood facias, soffits	Appropriate – conditional and only as approved by the Authority.	3.1.5.24 Decorative Wood Cladding Direct access to street, and fire-retardant-treated wood in conformance with stipulations that include weather resistance		
Fittings and Equipment				
Loose Equipment (Desks, chairs, etc.)	Appropriate	The core material for the desks, chairs, etc., can be made from particle and complete wood substrate except where CSA standards require non-porous materials such as in MDRD, the Sterile Core and the ORs.		
Modular Benches	Inappropriate	To be stainless steel in MDRD.		
Specialized Equipment	Inappropriate	Clinical equipment and associated environment cannot utilise wood as these environments need to be inert.		
Mechanical				
None known				
Electrical				
None known				
Site Development				
Landscape Features and Site Furnishings	Appropriate	Wood components with weather protection		