

PART 1 GENERAL

<u>1.1 REFERENCES</u>	.1	American Society for Testing and Materials International (ASTM)
	.1	ASTM A123/A123M-02, Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
	.2	ASTM A653/A653M-06, Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
	.2	Canadian Standards Association (CSA International)
	.1	CSA B111-1974 (R2003), Wire Nails, Spikes and Staples.
	.2	CAN/CSA-G164-M92(R2003), Hot Dip Galvanizing of Irregularly Shaped Articles.
	.3	CSA O121-M1978(R2003), Douglas Fir Plywood.
	.4	CSA O141-05, Softwood Lumber.
	.5	CSA O151-04, Canadian Softwood Plywood.
	.6	CSA O153-M1980 (R2003), Poplar Plywood.
	.3	Health Canada/Workplace Hazardous Materials Information System (WHMIS)
	.1	Material Safety Data Sheets (MSDS).
	.4	National Lumber Grades Authority (NLGA)
	.1	Standard Grading Rules for Canadian Lumber 2005.
	.5	South Coast Air Quality Management District (SCAQMD), California State (SCAQMD)
	.1	SCAQMD Rule 1113-04, Architectural Coatings.
	.2	SCAQMD Rule 1168-05, Adhesives and Sealants Applications.
<u>1.2 SUBMITTALS</u>	.1	Submit Submittal submissions: in accordance with Section 01 33 00 - Submittal Procedures.
<u>1.3 QUALITY ASSURANCE</u>	.1	Lumber identification: by grade stamp of an agency certified by Canadian Lumber Standards Accreditation Board.

- .2 Plywood identification: by grade mark in accordance with applicable CSA standards.
- .3 Plywood, OSB and wood based composite panel construction sheathing identification: by grademark in accordance with applicable CSA standards.

1.4 DELIVERY, STORAGE, AND HANDLING

- .1 Waste Management and Disposal:
 - .1 Separate waste materials for reuse and recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.

PART 2 PRODUCTS

2.1 LUMBER MATERIAL

- .1 Lumber: unless specified otherwise, softwood, S4S, moisture content 19% or less in accordance with following standards:
 - .1 CAN/CSA-0141.
 - .2 NLGA Standard Grading Rules for Canadian Lumber.
- .2 Furring, blocking, nailing strips, grounds, rough bucks, cants, curbs,:
 - .1 S2S is acceptable for all work.
 - .2 Board sizes: "Standard" or better grade.
 - .3 Dimension sizes: "Standard" light framing or better grade.
 - .4 Post and timbers sizes: "Standard" or better grade.

2.2 PANEL MATERIALS

- .1 Douglas fir plywood: to CSA 0121, standard construction.
 - .1 Urea-formaldehyde free.
- .2 Canadian softwood plywood (CSP): to CSA 0151, standard construction.
 - .1 Urea-formaldehyde free.
- .3 Poplar Plywood: to CSA 0153, standard construction, urea-formaldehyde free.
 - .1 Urea-formaldehyde free.
- .4 Plywood, OSB and wood based composite panels: to CAN/CSA-0325.
 - .1 Urea-formaldehyde free.

.2 Forest Stewardship Council (FSC) certified.

2.3 ACCESSORIES

- .1 Nails, spikes and staples: to CSA B111.
- .2 Bolts: 12.5 mm diameter unless indicated otherwise, complete with nuts and washers.
- .3 Proprietary fasteners: toggle bolts, expansion shields and lag bolts, screws and lead or inorganic fibre plugs, explosive actuated fastening devices, recommended for purpose by manufacturer.

2.4 FINISHES

- .1 Galvanizing: to CAN/CSA-G164 ASTM A653/A653M, use galvanized fasteners for interior highly humid areas pressure- preservative fire-retardant treated lumber.

2.5 WOOD PRESERVATIVE

- .1 SCAQMD Rule 1113 - Architectural Coatings.
- .2 Maximum allowable VOC limit 350 g/L.
- .2 Surface-applied wood preservative: clear coloured, or copper napthenate or 5% pentachlorophenol solution, water repellent preservative.
- .3 Pentachlorophenol use is restricted to building components that are in ground contact and subject to decay or insect attack only. Where used, pentachlorophenol-treated wood must be covered with two coats of an appropriate sealer.
- .4 Structures built with wood treated with pentachlorophenol and inorganic arsenicals must not be used for storing food nor should the wood come in contact with drinking water.

PART 3 EXECUTION

3.1 PREPARATION

- .1 Treat surfaces of material with wood preservative, before installation.
- .2 Apply preservative by dipping, or by brush to completely saturate and maintain wet film on surface for minimum 3 minute soak on lumber and one minute soak on plywood.
- .3 Re-treat surfaces exposed by cutting,

trimming or boring with liberal brush
application of preservative before
installation.

.4 Treat material as follows:

- .1 Wood furring for on outside surface of
exterior masonry and concrete walls.

3.2 INSTALLATION

- .1 Comply with requirements of NBC, supplemented
by the following paragraphs.
- .2 Install furring and blocking as required to
space-out and support casework, cabinets,
wall and ceiling finishes, facings, and other
work as required.
- .3 Align and plumb faces of furring and blocking
to tolerance of 1:600.
- .4 Install rough bucks, nailers and linings to
rough openings as required to provide backing
for frames and other work.
- .5 Install wood cants, backing, nailers, curbs
and other wood supports as required and
secure using galvanized steel fasteners.
- .6 Use caution when working with particle board.
Use dust collectors and high quality
respirator masks.

3.3 ERECTION

- .1 Frame, anchor, fasten, tie and brace members
to provide necessary strength and rigidity.
- .2 Countersink bolts where necessary to provide
clearance for other work.

3.4 SCHEDULES

- .1 Provide electrical equipment backboards for
mounting electrical equipment as indicated.
Use 19 mm thick plywood on 19 x 38 mm furring
around spacing, perimeter and at maximum 300
mm intermediate.