

PART 1 - GENERAL

- 1.1 REFERENCES .1 Codes and standards referenced in this section refer to the latest edition thereof.
- .2 Canadian Standards Association (CSA).
.1 CSA B111, Wire Nails, Spikes and Staples.
.2 CAN/CSA-G164, Hot Dip Galvanizing of Irregularly Shaped Articles.
.3 CSA 0121, Douglas Fir Plywood.
.4 CAN/CSA-0141, Softwood Lumber.
.5 CSA 0151, Canadian Softwood Plywood.
- 1.2 QUALITY ASSURANCE .1 Lumber identification: by grade stamp of an agency certified by the Canadian Lumber Standards Accreditation Board.
- .2 Plywood identification: by grade mark in accordance with applicable CSA Standards.
- 1.3 SUBMITTALS .1 Submit proof of compatibility between Alkaline Copper Quaternary (ACQ) pressure treated lumber and fasteners to be utilized.
- 1.4 MEASUREMENT FOR PAYMENT .1 Park Benches - Park benches shall be measured by the each. Include incidental to this cost, all costs for timber, hardware, cut stone, bottom plates, anchors, fabrication, mortar, and any other plant, equipment, labour or material required to complete the work as provided in the Contract Documents.

PART 2 - PRODUCTS

- 2.1 LUMBER MATERIAL .1 Lumber: unless specified otherwise, softwood, S4S, moisture content 19% or less in accordance with the following standards:
.1 CAN/CSA-0141.
.2 NLGA Standard Grading Rules for Canadian Lumber.
- .2 Furring, blocking, nailing strips, grounds, rough bucks, fascia backing and sleepers:
.1 Board sizes: "Standard" or better grade.

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- 2.1 LUMBER MATERIAL .2 (Cont'd)
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- .2 Dimension sizes: "Standard" light framing or better grade.
- .3 Post and timber sizes: "Standard" or better grade.
- .3 Pressure treated material to be Alkaline Copper Quaternary (ACQ).
- 2.2 ACCESSORIES .1 Nails, spikes and staples: to CSC B111, Galvanized for Exterior Work.
- .2 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.
- 2.3 FINISHES .1 Galvanizing to CAN/CSA-G164, use galvanized fasteners for exterior work and fire-retardant treated lumber.
- 2.4 WOOD PRESERVATIVE .1 Surface-applied wood preservative: clear or copper naphthenate or 5% pentachlorophenol solution, water repellent preservative.
- .2 Use pressure preservative treated wood to CAN/CSA 080 Series, water born for stained finish, where indicated and as follows:
- .1 Treat plywood to CAN/CSA-080.9 using CCA or ACA preservative to obtain minimum net retention of 4.0 kg/m of wood.
- .2 Treat lumber to CAN/CSA-080.2 using CCA or ACA preservative to obtain minimum net retention of 4.0 kg/mm of wood.
- .3 Following water-borne preservative treatment, kiln dry material.
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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 all material as indicated.
- 3.2 INSTALLATION
- .1 Comply with requirements of NBC, latest edition. Part 9 supplemented by following paragraphs.
 - .2 Install members true to line, levels and elevations, square and plumb.
 - .3 Construct continuous members from pieces of longest practical length.
 - .4 Install spanning members with "crown-edge" up.
 - .5 Install rough bucks, nailers and linings to rough openings as required to provide backing for frames and other work.
 - .6 Install wood cants, nailers and other wood supports as required and secure using galvanized or stainless fasteners.
- 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 Use nailing disks for soft sheathing as recommended by sheathing manufacturer.