

PART 1 GENERAL

1.1 RELATED SECTIONS

- .1 Section 06 15 16 – Wood Decking.
- .2 Section 07 52 00 – Modified Bituminous Membrane Roofing.

1.2 REFERENCES

- .1 ASTM D 1761-00, Standard Test Methods for Mechanical Fasteners in Wood.
- .2 ASTM D 5456-01ae1, Specification for Evaluation of Structural Composite Lumber Products.
- .3 Canadian Standards Association (CSA)
 - .1 CSA B111-1974, Wire Nails, Spikes and Staples.
 - .2 CSA O112 Series-M1977, CSA Standards for Wood Adhesives.
 - .3 CSA O121-M1978, Douglas Fir Plywood.
 - .4 CAN/CSA-O141-91, Softwood Lumber.
 - .5 CSA O151-M1978, Canadian Softwood Plywood.
 - .6 CAN3-O437 Series-93, Standards on OSB and Waferboard.
- .4 National Lumber Grades Authority (NLGA)
 - .1 Standard Grading Rules for Canadian Lumber 2005.

1.3 QUALITY ASSURANCE

- .1 Lumber by grade stamp of an agency certified by Canadian Lumber Standards Accreditation Board.

1.4 WASTE MANAGEMENT AND DISPOSAL

- .1 Set aside damaged wood and dimensional lumber off-cuts for approved alternative uses (e.g. bracing, blocking, cripples, bridging). Store this separated reusable wood waste convenient to cutting station and area of work.
- .2 Separate metal, plastic, wood and corrugated cardboard-packaging and designate for recycling.

PART 2 PRODUCTS

2.1 FRAMING AND STRUCTURAL MATERIALS

- .1 Lumber: unless specified otherwise, softwood, S4S, moisture content 19% (S-dry) or less in accordance with following standards:
 - .1 CAN/CSA-O141.
 - .2 NLGA Standard Grading Rules for Canadian Lumber.
- .2 Structural Composite Lumber (SCL) in accordance with ASTM D 5456.
- .3 Framing and board lumber: in accordance with NBC,.
- .4 Furring, blocking, nailing strips, grounds, rough bucks, curbs, fascia backing and sleepers:
 - .1 Board sizes: "Standard" or better grade.
 - .2 Dimension sizes: "Standard" light framing or better grade.
 - .3 Post and timbers sizes: "Standard" or better grade.

2.2 PANEL MATERIALS

- .1 Douglas fir plywood (DFP): to CSA O121, standard construction.
- .2 Canadian softwood plywood (CSP): to CSA O151, standard construction.

2.3 ACCESSORIES

- .1 Sealants: as per Section 07 92 10 - Joint Sealing.
- .2 Nails, spikes and staples: to CSA B111.
- .3 Bolts: 12.5 mm diameter unless indicated otherwise, complete with nuts and washers.
- .4 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.
- .5 Joist supports 75mm x 75mm x 4.8mm x 75mm steel angles.
- .6 Nailing discs: flat caps, minimum 25 mm diameter, minimum 0.4 mm thick, sheet metal, formed to prevent dishing. Bell or cup shapes not acceptable.

2.4 FASTENER FINISHES

- .1 Galvanizing: to CAN/CSA-G164, use galvanized fasteners for exterior work and interior highly humid areas.
- .2 Stainless steel: use stainless steel fasteners as noted.

2.5 WOOD PRESERVATIVE

- .1 Wood preservative to conform to CAN/CSA 080.

PART 3 EXECUTION

3.1 PREPARATION

- .1 Store wood products such that they are not exposed to rainfall and ground moisture.

3.2 INSTALLATION

- .1 Comply with requirements of NBC 1995 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 Select exposed framing for appearance. Install lumber and panel materials so that grade-marks and other defacing marks are concealed or are removed by sanding where materials are left exposed.
- .6 Install furring and blocking as required to space-out and support casework, cabinets, wall and ceiling finishes, facings, fascia, soffit, siding, electrical equipment mounting boards, and other work as required.
- .7 Install furring to support siding applied vertically where there is no blocking and where sheathing is not suitable for direct nailing.
 - .1 Align and plumb faces of furring and blocking to tolerance of 1:600.

- .8 Install rough bucks, nailers and linings to rough openings as required to provide backing for frames and other work.
- .9 Install wood cants, fascia backing, nailers, curbs and other wood supports as required and secure using galvanized fasteners.
- .10 Install sleepers as indicated.
- .11 Use dust collectors and high quality respirator masks when cutting or sanding wood panels.

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.

3.4 SCHEDULES

- .1 Girder: 38 x 184 top cord treated. 38x 184 bottom cord; 19mm plywood both sides nailed to top and bottom cords.
- .2 Roof joints – 38 x 184.
- .3 Wood Blocking.
- .4 Continuous treated 38 x 184 Fascia Boards.
- .5 Roof Deck refer to Section 06 15 00.

End of Section

Part 1 GENERAL

1.1 RELATED WORK SPECIFIED IN OTHER SECTIONS

- .1 Section 06 10 10 - Rough Carpentry
- .2 Section 07 92 10 – Joint Sealing.
- .3 Section 07 52 16 – Modified Bituminous (SBS) Membrane Roofing
- .4 Section 09 91 00 – Painting.

1.2 REFERENCE DOCUMENTS

- .1 American Wood Preservers' Association (AWPA)
 - .1 AWPA A2 98, Standard Methods for Analysis of Water-borne Preservatives and Fire Retardant Formulations.
- .2 Canadian Standards Association (CSA):
 - .1 CSA B111-1974 – Wire Nails, Spikes and Staples
 - .2 CAN/CSA 086-01 – Consolidation (R2006), Engineering Design in Wood.
- .3 National Lumber Grading Authority (NLGA):
 - .1 NLGA-07 - Standard Grading Rules for Canadian Lumber

1.3 QUALITY ASSURANCE

- .1 Regulatory Agency Approvals:
 - .1 Lumber identification: by grade stamp of an agency certified by Canadian Lumber Standards Accreditation Board.

1.4 DELIVERY, STORAGE, AND HANDLING

- .1 Delivery and Acceptance Requirements:
 - .1 Protect materials from weather upon delivery to job site.
- .2 Storage and Handling Requirements:
 - .1 Store materials on raised supports. Cover materials with waterproof covering. Provide adequate air circulation and ventilation.
- .3 Do not store seasoned materials in wet or damp areas.

PART 2 PRODUCTS

2.1 MATERIALS

- .1 Wood decking: to NLGA standard Grading Rules for Canadian Lumber Commercial grade Douglas Fir 19 x 140mm, single tongue and groove and "Veed" one side. Kiln dry decking to 15% maximum moisture content.
- .2 Decking lengths: 1.8 to 6 m or longer with a minimum of 90% planks exceeding 3 m. Square end trimmed.

- .3 Nails: to CSA B111, galvanized finish; sizes as recommended in CSA O86. Supply 200 mm spiral spikes for lateral nailing.
- .4 Splines: galvanized metal, as recommended by decking manufacturer.

PART 3 EXECUTION

3.1 INSTALLATION

- .1 Do wood deck work in accordance with CSA O86 except where specified otherwise.
- .2 Install decking in accordance with CSA O86, continuous over two spans pattern.
- .3 Single and double spans: End joints shall be over support.
- .4 Provide minimum of one bearing support for each plank except for cantilevers which shall extend over two supports. Install sloping deck with tongues up. Join butt ends with splines to ensure a tight square fit.
- .5 Touch up end cuts with preservative.

3.2 NAILING

- .1 Nail each piece at each support with one toe nail and one face nail.
- .2 Nails shall penetrate 38 mm into supporting members.

3.3 CLEANING

- .1 Remove tool marks, bruises and scratches after completing erection. Replace damaged decking if repairs are not approved by the consultant.

3.4 PROTECTION

- .1 Provide temporary waterproof covering to protect exposed decking before applying roofing.

End of Section