

1 GENERAL

1.01 RELATED REQUIREMENTS

- .1 Division 1 - General Requirements
- .2 Section 04 03 07 Historic - Masonry Repointing
- .3 Section 09 03 61 Historic Repainting

1.02 REFERENCES

- .1 American National Standards Institute (ANSI)
 - .3 ANSI/HPVA HP-1-10, Standard for Hardwood and Decorative Plywood.
- .2 Architectural Woodwork Manufacturers Association of Canada (AWMAC) and Architectural Woodwork Institute (AWI)
 - .1 Architectural Woodwork Quality Standards Illustrated, 8th edition, Version 1.0 (2009).
- .3 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-71.20-M88, Adhesive, Contact, Brushable.
- .4 CSA International
 - .1 CSA B111-74(R2003), Wire Nails, Spikes and Staples.
- .5 Health Canada/Workplace Hazardous Materials Information System (WHMIS)
 - .1 Material Safety Data Sheets (MSDS).
- .6 National Hardwood Lumber Association (NHLA)
 - .1 Rules for the Measurement and Inspection of Hardwood and Cypress 2011.
- .7 National Lumber Grades Authority (NLGA)
 - .1 Standard Grading Rules for Canadian Lumber 2010.

1.03 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .3 Shop Drawings:
 - .2 Indicate details of construction, profiles, jointing, fastening and other related details.
 - .1 Scales: details half full size.
 - .3 Indicate materials, thicknesses, finishes.
- .4 Samples:
 - .1 Submit for review and acceptance of each unit.
 - .3 Submit duplicate samples of softwood: sample size 38 mm x 500 x 100 mm.

- .5 Certifications: submit certificates signed by manufacturer certifying that materials comply with specified performance characteristics and physical properties.

1.04 QUALITY ASSURANCE

- .1 Lumber by grade stamp of an agency certified by Canadian Lumber Standards Accreditation Board.
- .2 Mock-ups:
 - .1 Construct mock-ups in accordance with Section 01 45 00 - Quality Control.
 - .1 Shop prepare one tread and bolster replacement, and install where directed by Departmental Representative
 - .2 When accepted, mock-up will demonstrate minimum standard for Work.

1.05 DELIVERY, STORAGE AND HANDLING

- .1 Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements.
- .2 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
 - .1 Protect woodwork against dampness and damage during and after delivery.
 - .2 Store woodwork in ventilated areas, protected from extreme changes of temperature or humidity.
- .3 Storage and Handling Requirements:
 - .1 Store materials off ground in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
 - .2 Store and protect architectural woodwork from nicks, scratches, and blemishes.
 - .3 Replace defective or damaged materials with new.

2 PRODUCTS

2.01 MATERIALS

- .1 Softwood lumber: Clear Pine. Rough sawn. Unless specified otherwise, S4S, moisture content 19% or less in accordance with following standards:
 - .1 CSA O141.
 - .2 CAN/CSA-Z809 or FSC or SFI certified.
 - .3 NLGA Standard Grading Rules for Canadian Lumber.
 - .4 AWMAC premium grade, moisture content as specified.
- .2 Nails and staples: to CSA B111. Except USE HISTORIC PATTERN NAILS WHERE ON WOOD STAIR CASE. Heritage cut nails as per the Tremont Steel Cut Nail Catalogue with size to suit application
- .3 Wood Liquid and Stick Fungicide:
 - .1 52g/L Boron

- .2 12g/L Benzalkonium Chloride
- .3 Solvent: 886 g/L Monethylene Glycol
- .4 Moisture barrier: closed-cell foam material.
- .5 Refer to section 09 03 61 Historic Repainting for whitewash preparation and finishing requirements.

2.02 MANUFACTURED UNITS

- .1 Stair treads.
- .2 Stair risers
- .3 Stair bolsters
- .4 Stair stringers

2.03 FABRICATION

- .1 Set nails and countersink screws apply wood filler to indentations, sand smooth and leave ready to receive finish.
- .2 Obtain governing dimensions before fabricating items which are to accommodate or abut appliances, equipment and other materials.

2.04 FINISHING

- .1 On new material, prior to whitewashing, apply wood liquid fungicide to be brush flooded, wet prior to application in accordance with manufacturer's instructions.
 - .1 Application rate: 10mL per 1000 cubic cm
- .2 On existing material, prior to painting or whitewashing, inject drilled holes as per manufacturer's instructions.
 - .1 Application rate: 20 mL per 1000 cubic cm
- .2 Finish in accordance with Section 09 03 61 Historic Repainting
- .3 With wood burning pen, burn date stamp all new wood material in a visible location on the underside to document date of replacement.

3 EXECUTION

3.01 EXAMINATION

- .1 Verification of Conditions: verify conditions of substrates previously installed under other Sections or Contracts are acceptable for architectural woodwork installation in accordance with manufacturer's instructions.

- .1 Visually inspect substrate in presence of Departmental Representative.
- .2 Inform Departmental Representative of unacceptable conditions immediately upon discovery.
- .3 Proceed with installation only after unacceptable conditions have been remedied and after receipt of written approval to proceed from Departmental Representative.

3.02 INSTALLATION

- .1 Do architectural woodwork to Quality Standards of AWMAC.
- .2 Install prefinished millwork at locations shown on drawings.
 - .1 Position accurately, level, plumb straight.
- .5 Scribe and cut as required to fit abutting walls and to fit properly into recesses and to accommodate piping, columns, fixtures, outlets or other projecting, intersecting or penetrating objects.

3.03 CLEANING

- .1 Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning.
 - .1 Leave Work area clean at end of each day.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 - Cleaning.
 - .1 Clean stairs.
 - .2 Remove excess glue from surfaces.
- .3 Waste Management: separate waste materials for reuse and recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
 - .1 Remove recycling containers and bins from site and dispose of materials at appropriate facility.

3.04 PROTECTION

- .1 Protect from damage until final inspection.
- .2 Protect installed products and components from damage during construction.
- .3 Repair damage to adjacent materials caused by architectural woodwork installation.

3.05 SCHEDULES

- .1 Refer to drawings for exact quantities and locations.

END OF SECTION