

Architectural Woodwork Standards

SECTION - 12

HISTORIC RESTORATION WORK

SECTION 12 ♦ HISTORIC RESTORATION WORK

Stripping, Repairs, and Finishing

GENERAL

1 INFORMATION

1.1 GRADES

- 1.1.1 These standards are characterized in three Grades of quality that might be mixed within a single project. Limitless design possibilities and a wide variety of lumber and veneer species, along with overlays, high-pressure decorative laminates, factory finishes, and profiles are available in all three Grades.
- 1.1.2 Because of the nature of historic woodwork, a specific grade classification is not applicable to this section.
- 1.1.3 **MODIFICATIONS** by the contract documents shall govern if in conflict with these standards.

1.2 BASIC CONSIDERATIONS

- 1.2.1 The **RATIONALE** and **INTENT** of this section is to assist in compliance with the U.S. Secretary of the Interior's "**STANDARDS FOR THE TREATMENT OF HISTORIC PROPERTIES** (The Standards) with Guidelines for Preserving, Rehabilitation, Restoring, and Reconstructing Historic Buildings (The Guidelines)" or the **STANDARDS AND GUIDELINES FOR THE CONSERVATION OF HISTORIC PLACES IN CANADA** which spell out requirements such as:
 - 1.2.1.1 The **HISTORIC CHARACTER** of a property will be retained and preserved.
 - 1.2.1.1.1 The removal of distinctive materials or alterations of features, spaces, and spatial relationships that characterize a property will be avoided.
 - 1.2.1.2 Each property will be **RECOGNIZED** as a physical record of its time, place, and use.
 - 1.2.1.2.1 Changes that create a false sense of historical development, such as adding conjectural features or elements from other historic properties, will not be undertaken.
 - 1.2.1.3 **CHANGES** to property that have acquired historic significance in their own right will be retained and preserved.
 - 1.2.1.4 **DISTINCTIVE** materials, features, finishes, and construction techniques or examples of craftsmanship that characterize a historic property will be preserved.
 - 1.2.1.5 **DETERIORATED** historic features will be repaired rather than replaced.
 - 1.2.1.5.1 Where the severity of deterioration requires replacement of a distinctive feature, the new feature will match the old in design, color, texture, and, where possible, materials.
 - 1.2.1.5.2 Replacement of missing features will be substantiated by documentary and physical evidence.
 - 1.2.1.6 Chemical or physical **TREATMENTS**, if appropriate, will be undertaken using the gentlest means possible.
 - 1.2.1.6.1 Treatments that cause damage to historic properties will not be used.
 - 1.2.1.7 New **ADDITIONS**, exterior alterations, or related new construction will not destroy historic materials and spatial relationships that characterize the property.
 - 1.2.1.7.1 The new work shall be differentiated from the old and will be compatible with the historic materials, features, size, scale, proportion, and massing to protect the historic integrity of the property and its environment.
 - 1.2.1.8 New additions and adjacent or related new construction will be undertaken in such a manner that if they are removed in the future, the essential form and integrity of the historic property and its environment will be unimpaired.
- 1.2.2 **ACCEPTABLE REQUIREMENTS** of lumber and/or sheet products used within this woodwork product section are established by Sections 3 and 4, unless otherwise modified herein.

GENERAL**1.2 BASIC CONSIDERATIONS** (continued)

1.2.3 **CONTRACT DRAWINGS** and/or **SPECIFICATIONS**, furnished by the design professional, shall clearly indicate or delineate all material, fabrication, installation, and applicable building code/regulation requirements.

1.2.4 EXPOSED SURFACES

1.2.4.1 All visible surfaces of standing/running trim and door/window frames.

1.2.4.2 Excluding top horizontal surfaces 72" (1829 mm) or more above the finish grade, deck, or walk, unless visible from above.

1.2.4.3 Excluding bottom horizontal surfaces 48" (1219 mm) or less above the finish grade or walk.

1.2.4.4 All visible surfaces of window and sash members.

1.2.4.5 All visible surfaces of screen, screen door, blind, and shutter members.

1.2.4.6 All visible surfaces of stringers, skirtboards, treads, risers, and balustrades.

1.2.4.7 All visible surfaces of architectural wall surfacing.

1.2.4.8 Both visible faces of wood doors.

1.2.4.9 At casework:

1.2.4.9.1 All surfaces visible when doors and drawers are closed, including knee spaces.

1.2.4.9.2 Underside of cabinet bottoms over 42" (1067 mm) above the finished floor, including bottoms behind light valances.

1.2.4.9.3 Cabinet tops under 80" (2032 mm) above the finished floor, or if they are 80" (2032 mm) and over and visible from an upper building level or floor.

1.2.4.9.4 Visible front edges of web frames, ends, divisions, tops, shelves, and hanging stiles.

1.2.4.9.5 Sloping tops of cabinets that are visible.

1.2.4.9.6 Visible portions of bottoms, tops, and ends in front of sliding doors.

1.2.4.9.7 Visible surfaces in open cabinets or behind glass.

1.2.4.9.8 Interior faces of hinged doors.

1.2.4.9.9 Cabinet and woodwork surfaces behind sliding presentation panels.

1.2.5 SEMI-EXPOSED SURFACES

1.2.5.1 Top horizontal surfaces 80" (2032 mm) or more above the finish grade, deck, or walk, unless visible from above.

1.2.5.2 Bottom horizontal surfaces 42" (1067 mm) or less above the finish grade or walk.

1.2.5.3 Both visible edges of wood doors.

1.2.5.4 At casework:

1.2.5.4.1 Shelves.

1.2.5.4.2 Divisions.

1.2.5.4.3 Interior face of ends (sides), backs, and bottoms (even on a bank of drawers). Also included are the interior surfaces of cabinet top members when the top member is 36" (914 mm) or more above the finished floor.

1.2.5.4.4 Drawer sides, subfronts, backs, and bottoms.

1.2.5.4.5 The underside of cabinet bottoms between 24" (610 mm) and 42" (1067 mm) above the finished floor.

1.2.5.4.6 In open cabinets or behind glass for all rooms designated as storage, janitor, closet, or utility.

GENERAL

1.2 BASIC CONSIDERATIONS (continued)

1.2.6 CONCEALED SURFACES

- 1.2.6.1 All non-visible surfaces attached to and/or covered by another.
- 1.2.6.2 All non-visible blocking or spacers used for attachment.
- 1.2.6.3 Top and bottom edges of wood doors.
- 1.2.6.4 At casework:
 - 1.2.6.4.1 Toe space, unless otherwise specified.
 - 1.2.6.4.2 Sleepers.
 - 1.2.6.4.3 Web frames, stretchers, and solid sub-tops.
 - 1.2.6.4.4 Security panels.
 - 1.2.6.4.5 The underside of cabinet bottoms less than 24" (610 mm) above the finished floor.
 - 1.2.6.4.6 The flat tops of a cabinet 72" (1829 mm) or more above the finished floor, except if visible from an upper building level.
 - 1.2.6.4.7 The three non-visible edges of adjustable shelves.
 - 1.2.6.4.8 The underside of countertops, knee spaces, and drawer aprons.
 - 1.2.6.4.9 The faces of cabinet ends of adjoining units that butt together.

1.3 RECOMMENDATIONS

1.3.1 INCLUDE IN DIVISION 09 OF THE SPECIFICATIONS:

- 1.3.1.1 For **JOBSITE FINISHING** - Before finishing, all exposed portions of woodwork shall have handling marks or effects of exposure to moisture removed with a thorough, final sanding over all surfaces of the exposed portions using the appropriate grit sandpaper, and they shall be cleaned before applying sealer or finish.
- 1.3.1.2 At **CONCEALED SURFACES** - Architectural woodwork that might be exposed to moisture, such as those adjacent to exterior concrete walls, shall be back-primed.

1.3.2 **THOROUGHLY REVIEW** Sections 3 and 4, especially Basic Considerations, Recommendations, Acknowledgements, and Industry Practices within Part 1 for an overview of the characteristics and minimum acceptable requirements of lumber and/or sheet products that might be used herein.

1.3.3 **CONTRACT DOCUMENTS** (plans and/or specifications) shall require that all structural members, grounds, blocking, backing, furring, brackets, or other anchorage which becomes an integral part of the building's walls, floors, or ceilings, required for the installation of architectural woodwork is not to be furnished or installed by the architectural woodwork manufacturer or installer.

1.3.4 **SPECIFY** requirements for:

- 1.3.4.1 Fire ratings
- 1.3.4.2 Special code compliance

1.3.5 **HISTORIC WOODWORK RESTORATION**, including stripping, repairs, reconstruction, materials, new fabrication, installation, and finishing, should be of a **SINGLE SOURCE RESPONSIBILITY**.

- 1.3.5.1 If a **SINGLE SOURCE RESPONSIBILITY** is **NOT REQUIRED**, then the **STRIPPING** and **FINISHING** requirements from the **PRODUCT** portion of this section should be included in the painting section of the specifications.

1.4 ACKNOWLEDGEMENTS - None

GENERAL

1.5 INDUSTRY PRACTICES

- 1.5.1 **STRUCTURAL MEMBERS**, grounds, blocking, backing, furring, brackets, or other anchorage that becomes an integral part of the building's walls, floors, or ceilings, that are required for the installation of architectural woodwork are not furnished or installed by the architectural woodwork manufacturer or installer.
- 1.5.2 **WALL, CEILING**, and/or opening variations in excess of 1/4" (6.4 mm) or **FLOORS** in excess of 1/2" (12.7 mm) in 144" (3658 mm) of being plumb, level, flat, straight, square, or of the correct size are not acceptable for the installation of architectural woodwork, nor is it the responsibility of the installer to scribe or fit to tolerances in excess of such.
- 1.5.3 **BACK PRIMING** of architectural woodwork is not the responsibility of the manufacturer and/or installer, unless the material is being furnished pre-finished.

PRODUCT

2 SCOPE

- 2.1 The restoration, fabrication, installation, and finishing of all existing and/or new historic architectural woodwork.
- 2.2 **TYPICAL INCLUSIONS**
 - 2.2.1 Shall comply with those listed within **Sections 6 - 11**, as applicable.
- 2.3 **TYPICAL EXCLUSIONS**
 - 2.3.1 Shall comply with those listed within **Sections 6 - 11**, as applicable.

3 DEFAULT STIPULATION

- 3.1 Unless otherwise specified or detailed, all work shall be **PREMIUM GRADE** of softwood and/or hardwood intended for opaque and/or transparent finish as described in **SECTIONS 3** and **4**.
 - 3.1.1 It is the **RESPONSIBILITY** of the **MANUFACTURER** to observe the project before bid and match all materials for species, grain, and overall appearance.

4 RULES - The following RULES shall govern unless a project's contract documents require otherwise.

These rules are intended to provide a well-defined degree of control over a project's quality of materials and workmanship.

Errata, published on the Associations' websites at www.awinet.org, www.awmac.com, or www.woodworkinstitute.com, shall TAKE PRECEDENCE OVER THESE RULES, subject to their date of posting and a project's bid date.

ARROWS INDICATE TOPIC IS CARRIED FROM ↑ OR ONTO ↓ ANOTHER PAGE.

DESCRIPTION	
4.1	GENERAL
G	4.1.1 Aesthetic GRADE RULES apply only to exposed and semi-exposed surfaces visible after installation.
E	4.1.2 LUMBER shall conform to the requirements established in Section 3.
N	4.1.3 SHEET PRODUCTS shall conform to the requirements established in Section 4.
E	4.1.4 BACKING SHEET shall conform to the requirements established in Section 4.
R	4.1.5 EXPOSED, SEMI-EXPOSED , and CONCEALED surfaces shall be as listed under item 1.2, BASIC CONSIDERATIONS , of this Section.
A	4.1.6 For the purpose of this standard, a BALANCED PANEL is one that is free from warp that affects serviceability for its intended purpose.
↓	4.1.7 WAINSCOT shall be 48" (1219 mm) in height above the finished floor.