

Architectural  
Woodwork Standards

**HISTORIC  
RESTORATION  
WORK**

**12**

**S E C T I O N**

# SECTION 12

## Historic Restoration Work

## table of contents

### INTRODUCTORY INFORMATION

Guide Specifications .....	376
Introduction .....	377
Resources and References .....	377
Design Ideas .....	377
Specify Requirements For .....	378
Recommendations .....	378
If Field Finished .....	378
Review .....	378
Structural Members .....	378

### COMPLIANCE REQUIREMENTS

#### GENERAL

Basic Considerations .....	379
Grades .....	379
Acceptable Requirements .....	379
Contract Documents .....	379
Aesthetic Compliance .....	379

#### PRODUCT

Scope .....	380
Typical Inclusions .....	380
Typical Exclusions .....	380
Default Stipulation .....	380
Rules .....	380
Errata .....	380
Basic Rules .....	380
Aesthetic .....	380
First Class Workmanship .....	380
Material Rules .....	380
Wood .....	380
Comply with Section 3 - 11 .....	380
Members .....	380
Defects .....	380
Machining Rules .....	380
Comply with Section 6 - 11 .....	380
Machine .....	380
Existing Moldings .....	380
Assembly Rules .....	380
Comply with Section 6 - 11 .....	380
Plywood Backing .....	380
Repair Rules .....	381
Match Existing .....	381
At Transparent Finish .....	381
Carpentry Methods .....	381
Fasteners .....	381
Wood Patches .....	381

## introductory information

### COMPLIANCE REQUIREMENTS (continued)

#### PRODUCT (continued)

##### Rules (continued)

Stripping Rules .....	381
Coating Strippers .....	381
Before Stripping .....	381
Completely Remove .....	381
Stripping Residuals .....	381
Sand .....	381
Seal .....	381
Finishing Rules .....	381
Comply with Section 5 .....	381
Require .....	381

#### INSTALLATION

Care, Storage and Building Conditions .....	382
Contractor is Responsible for .....	382
Installer is Responsible for .....	382
Rules .....	382
Errata .....	382
Basic Rules .....	383
Aesthetic .....	383
Match Existing .....	383
Transparent .....	383
Repairs .....	383
Installer Modifications .....	383
First Class Workmanship .....	383

## Guide Specifications

Are available through the Sponsor Associations in interactive digital format including unique and individual quality control options.

The Guide Specifications are located at:

**Architectural Woodwork Institute (AWI)**

[www.awinet.org](http://www.awinet.org)

**Architectural Woodwork Manufacturers Association of Canada (AWMAC)**

<http://awmac.com/aws-guide-specifications>

**Woodwork Institute (WI)**

[www.woodworkinstitute.com/publications/aws\\_guide\\_specs.asp](http://www.woodworkinstitute.com/publications/aws_guide_specs.asp)

### introductory information

#### INTRODUCTION

The United States Department of the Interior ([www.doi.gov/](http://www.doi.gov/)), the National Park Service ([www.nps.gov/](http://www.nps.gov/)), and the Historic Sites and Monuments Board of Canada ([www.parkscanada.gc.ca/](http://www.parkscanada.gc.ca/)) publish documents related to work under their jurisdiction. The most recent publications from these entities will provide valuable information for the design professional and the woodwork fabrication, finishing, and installation.

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:

- The historic character of a property will be retained and preserved. The removal of distinctive materials or alterations of features, spaces, and spatial relationships that characterize a property will be avoided.
  - Each property will be recognized as a physical record of its time, place, and use. Changes that create a false sense of historical development, such as adding conjectural features or elements from other historic properties, will not be undertaken.
  - Changes to property that have acquired historic significance in their own right will be retained and preserved. Distinctive materials, features, finishes, and construction techniques or examples of craftsmanship that characterize a historic property will be preserved.
  - Deteriorated historic features will be repaired rather than replaced. 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. Replacement of missing features will be substantiated by documentary and physical evidence.
  - Chemical or physical treatments, if appropriate, will be undertaken using the gentlest means possible. Treatments that cause damage to historic properties will not be used.
- New additions, exterior alterations, or related new construction will not destroy historic materials and spatial relationships that characterize the property. 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.
  - 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.
  - 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.
  - Contract documents, furnished by the design professional, shall clearly indicate or delineate all material, fabrication, installation, and applicable building code/regulation requirements.

#### RESOURCES AND REFERENCES

**Museums with period rooms** - There are many historic houses around the country which are open to the public. Eighteenth Century homes such as Gunston Hall in VA, and Drayton Hall, near Charleston, SC, along the Eastern Seaboard and Neoclassical houses as one moves West. There are museums with period rooms as well. The Metropolitan Museum in New York, the Philadelphia Museum of Art, and Colonial Williamsburg are only a few.

**Publications** - Dover Publications, Inc., 31 East Second Street, Mineola, NY 11501.

Dover Publications has an incomparable listing of books which, for the most part, are reprintings of older publications; from Andrea Palladio's *Four Books of Architecture* to Augustus Charles Pugin's *Gothic Ornament* as well as handbooks and specialized subjects.

One invaluable Dover handbook is *Illustrated Dictionary of Historic Architecture* by Cyril M. Harris. It is from Harris that the definitions and many of the illustrations in the Glossary have been used with permission.

Three others which offer good illustrations are:

- Colling, James K. *Medieval Decorative Ornament*, New York, (Reprint of 1874 edition); Dover Publications, Inc. 1995
- Griesbach, C.B. *Historic Ornament: A Pictorial Archive*, New York, Dover Publications, Inc., 1975.
- Speltz, Alesander. *The Styles of Ornament*, (Reprint of German Edition of 1906), New York, Dover Publications, Inc., 1959.

Several books explaining in detail the orders of architecture are:

- Adam, Robert. *Classical Architecture: A Comprehensive Handbook to the Tradition of Classical Style*, New York: Harry N. Abrams, Inc., Publishers, 1990.
- Chitham, Robert. *The Classical Orders of Architecture*, New York: Rizzoli International Publications, Inc., 1985 (may be out of print).
- Ware, William R. *The American Vignola: A Guide to the Making of Classical Architecture*, New York: Dover Publications, Inc., 1994.

A definitive history of architecture is:

- Fletcher, Sir Banister. *A History of Architecture on the Comparative Method*, 20th edition ed., Dan Cruickshank and Andrew Saint, Oxford: Architectural Press, 1996.

For carving classical architectural elements:

Wilbur, Frederick. *Carving Architectural Detail in Wood: the Classical Tradition*, Lewes, UK: Guild of Master Craftsmen Publications, Ltd. 2000.

#### DESIGN IDEAS

Includes Architectural Ornamentation terminology, discussion and illustrations.



# SECTION 12

## Historic Restoration Work

## introductory information

### SPECIFY REQUIREMENTS FOR

- Flame spread ratings.
- Special code compliance.

### RECOMMENDATION

- **IF FIELD FINISHED, INCLUDE IN THE DIVISION 09 OF THE SPECIFICATIONS:**
  - **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 an appropriate grit sandpaper, and shall be cleaned before applying sealer or finish.
  - At **CONCEALED SURFACES** - Architectural woodwork that may be exposed to moisture, such as those adjacent to exterior concrete walls, etc., shall be primed.
- **REVIEW** the GENERAL portion of Sections 3 and 4 for an overview of the characteristics and the minimum acceptable requirements of lumber and/or sheet products that might be used herein.
- **STRUCTURAL MEMBERS**, grounds, in wall 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 are not to be furnished or installed by the architectural woodwork manufacturer or installer.
- **EXPOSED SURFACES** shall include those defined within Sections 6 - 11, as applicable.
- **SEMI-EXPOSED SURFACES** shall include those delineated within Sections 6 - 11, as applicable.
- **CONCEALED SURFACES** shall include those define within Sections 6 - 11, as applicable.

You can now download for **FREE** a copy of the Architectural Woodwork Standard, ED 2 for a complete AWS document including compliance requirements, product information and more.

**To Access**

**STEP 1**

Create and sign up for an account on the [AWI Publications Store](#).

**STEP 2**

Navigate to “Standards Download” under the Category filter, and select “**+ADD TO CART**” on either the:

Architectural Woodwork Standard, ED 2 Redline (Digital Download)

**OR**

Architectural Woodwork Standard, ED 2, 2014 Redline with Current Standards Watermark As of 6/01/2020 (Digital Download)

The watermarked version of the AWS helps you to navigate the Standards based on the release of the recognized AWI Standards. **\*OR**, See a [Roadmap to the AWI Standards](#) to help you navigate them as well.

Get Started