CSC Section 08 14 00

**Wood Doors**

This guide spec is intended to be used with Architectural Woodwork Manufacturer’s Association of Canada quality standards manual (current edition at date of tender) - hereinafter referenced as "AWMAC’s STANDARDS (NAAWS)".

Required selections are in brackets and in **[BOLD]**. Notes and comments are in grey text boxes such as this one.

This section incorporates wording for AWMAC's Guarantee and Inspection Service (GIS). In order to ensure that the quality of materials and workmanship of the architectural woodwork specified are in compliance with AWMAC’s STANDARDS (NAAWS) the AWMAC Guarantee and Inspection Service program (GIS) must be specified and be considered an integral component of the scope of work. Costs for this program are to be borne by the millwork sub-contractor. Go to <http://awmac.com/gis> for details.

This guide specification covers the materials and methods you would want to specify for wood or laminated plastic doors. It is strongly recommended that you read Section 9 of AWMAC’s STANDARDS (NAAWS)before using this guide spec. Many of the items you would ordinarily specify are governed by your choice of Grade.

# GENERAL

## SUMMARY

### Section Includes:

Select the applicable Items from the list below.

#### **[Flush Wood Doors] [Transom Panels].**

#### **[Stile and Rail Wood Doors.]**

#### **[Fire-Rated Wood Doors.]**

#### **[Wood Doors with HPDL faces.]**

#### **[Sound Rated Wood Doors including gaskets and automatic door bottoms.]**

#### **[X-ray Resistant Wood Doors.]**

#### **[Bullet Resistant Wood Doors.]**

#### **[Wood Louvers, Glass Stops, and Astragals.]**

#### **[Glazing.]**

If glazing is included here, delete it below. If it is not included here, show it under “Excluding”.

#### **[Factory finishing.]**

Factory finishing is strongly recommended. It is extremely difficult to get a quality finish under job site conditions.

## Excluding:

###  Cabinet doors.

###  Metal or Vinyl doors with wood cores.

### Garage, Metal, and Fiberglas doors.

### Metal grills or Louvers.

### **[Glazing.]**

## Related Sections:

### Rough Carpentry: Wood blocking or grounds inside finished walls or above finished ceilings.

### Door Hardware.

### Door Frames.

## REFERENCES

### Work in conformance with the Architectural Woodwork Manufacturer’s Association of Canada quality standards manual (current edition at date of tender).

All of the other standards you would reference are within AWMAC’s STANDARDS (NAAWS).

### If there is conflict between plans and/or specifications and AWMAC’s STANDARDS (NAAWS), plans and specifications shall govern.

### ANSI/WDMA I.S. 1A, latest edition.

### ANSI/WDMA I.S. 6A, latest edition.

## SUBMITTALS

### Shop Drawings:

#### Submit shop drawings conforming to AWMAC’s STANDARDS (NAAWS).

#### Submit two copies, one of which will be returned with reviewed notations. Make corrections noted (if any), and distribute required copies prior to start of work.

### Samples:

#### Submit three sets of **[finished]** samples of each species and cut of wood to be used. Veneer samples minimum 304 mm x 304 mm. Each sample set of three to represent range of color and grain expected

#### **[Submit three additional samples of each material for use of paint trade.]**

Samples may not be necessary for painted or HPDL covered doors.

## QUALITY ASSURANCE

### Work in accordance with AWMAC’s STANDARDS (NAAWS) Grade or Grades specified.

All of the other standards you would reference are within AWMAC’s STANDARDS (NAAWS)*.*

###  **[Guarantee and Inspection Service:]**

#### Architectural woodwork shall be manufactured **[and/or]** installed to the current AWMAC’s STANDARDS (NAAWS) and shall be subject to an inspection at the factory and/or site by an appointed AWMAC Certified Inspector. Inspection costs shall be included in the tender price for this project. (Contact your local AWMAC Chapter for details of inspection costs). Shop drawings submitted to the AWMAC Chapter office for review before work commences. Work that does not meet AWMAC’s STANDARDS (NAAWS), as specified, shall be replaced, reworked and/or refinished by the architectural woodwork contractor, to the approval of AWMAC, at no additional cost to the Owner.

#### If the woodwork contractor is an AWMAC manufacturer member in good standing, a two (2) year AWMAC Guarantee Certificate will be issued. The AWMAC Guarantee shall cover replacing, reworking and/or refinishing deficient architectural woodwork due to faulty workmanship or defective materials supplied **[and/or]** installed by the woodwork contractor, which may appear during two (2) year period following the date of issuance.

#### If the woodwork contractor is not an AWMAC Manufacturer member they shall provide the owner with a two (2) year maintenance bond, in lieu of the AWMAC Guarantee Certificate, to the full value of architectural woodwork contract.

For more information about AWMAC and the GIS Program visit our website at [www.awmac.com](http://www.awmac.com) and contact your local AWMAC Chapter office.

### **Woodwork Manufacturer Qualifications:**

#### Member in Good Standing of AWMAC.

#### Minimum 5 years of production experience similar to this project, whose qualifications indicate ability to comply with requirements of this Section.

#### Minimum one project in past 5 years where value of woodwork within 20 percent of cost of woodwork for this Project.

## DELIVERY, STORAGE, AND HANDLING

### Deliver materials only when project ready for installation and clean storage area provided.

#### Delivery of architectural millwork made only when area of operation enclosed, plaster and concrete work dry and area broom clean.

#### Maintain indoor temperature and humidity within range recommended by AWMAC’s STANDARDS (NAAWS) for location of project.

## SCHEDULING

### Coordinate fabrication, delivery, and installation with contractor and other applicable trades.

# PRODUCTS

## COMPONENTS

### Flush Wood Doors:

Select below the types of doors that are required.

#### Doors to meet requirements of ANSI/WDMA **[Heavy Duty] [Extra Heavy Duty]** performance values**.**

AWMAC’s STANDARDS (NAAWS) requires ANSI/WDMA Heavy Duty performance level for all doors. Require Extra Heavy Duty for doors that will see frequent and heavy use such as classrooms, patient rooms, and public restrooms. See Section 9 of AWMAC’s STANDARDS (NAAWS) for more discussion of duty levels.

#### Faces of wood veneered doors intended for transparent finish **[species] [cut],** with **[book] [slip] [other]** veneer match.

Veneer may be plain sliced, quarter sliced, rift, or rotary cut. The match is the system of matching veneer leaves on the panel. Book matched is the most common system; slip match is frequently used. Rotary cut veneers may be wide enough to make single leaf faces. Other less common matches are random, slip center book and special matches.

#### Faces at Plastic Laminate faced doors **[manufacturer] [pattern].**

#### Grain or pattern direction **[vertical] [horizontal]**

#### Faces at doors for opaque finish **[closed** **grain hardwood -OR- MDO -OR- MDF].**

#### Core **[hollow grid] [Particleboard] [staved lumber] [structural composite lumber] [per Door Schedule].**

Particleboard & SCL are recommended as core materials.

### Stile and Rail Doors:

#### Doors to meet requirements of ANSI/WDMA **[Heavy Duty] [Extra Heavy Duty]** performance values**.**

AWMAC’s STANDARDS (NAAWS) requires ANSI/WDMA Heavy Duty performance level for all doors. Require Extra Heavy Duty for doors that will see frequent and heavy use such as classrooms, patient rooms, and public restrooms. See Section 9 of AWMAC’s STANDARDS (NAAWS) for more discussion of duty levels.

#### Lumber **[species, cut] [closed grain hardwood]**.

Select closed grain hardwood for opaque finish.

#### Core material for panels **[MDF] [water resistant MDF] [SCL] [exterior grade hardwood plywood]**.

Custom Grade allows solid lumber panels. Include this Item if Premium Grade is specified and you prefer one core material over another.

#### Core material for stiles and rails **[MDF] [SCL] [stave core].**

Custom Grade allows solid lumber stiles and rails. Include this Item if Premium Grade is specified and you prefer one core material over another.

#### Type I adhesives for exterior doors.

#### Glass **[tempered] [laminated]**.

Include this Item if glazing is included in this Section.

#### Glass at exterior doors **[\_\_\_\_\_\_\_\_].**

Insert your preferred insulated or low e glazing.

## FABRICATION

### Slab doors AWMAC’s STANDARDS (NAAWS) **[Custom] [Premium]** Grade:

Specify grade. Custom grade is typically specified and adequate for most high quality architectural woodwork.

#### Doors **[3] [5] [7]** ply construction.

For Transparent Wood & HPDL 5 ply doors are the most common type manufactured For Opaque Finish 3 ply doors are the most common type manufactured

#### Doors edge construction types **[A] [B] [C] [D] [E] [F]**

#### Assembled with, **[for exterior doors - Type I adhesive]**, for **[interior doors - Type Il adhesive]**

Type l: Fully waterproof, Exterior, Two cycle boil/shear test

Type ll: Water resistant, Interior, Three cycle soak test

#### Size of doors; type, size, and location of lights and louvers; astragals, edging, flashing, and specialty hardware; X-ray and sound requirements, and transom panels as indicated on Door Schedule.

#### Fire-rated doors of construction standard of manufacturer and conform to requirements of applicable labeling agencies.

#### Provide blocking as required for surface mounted hardware to prevent need for through bolting.

####  **[Blueprint Match: Work at room(s) [\_\_\_\_\_\_\_\_\_\_] blueprint matched:**

Specify a blueprint match if there is an area where casework, doors, and panels should all be sequence matched. Similar language must be inserted in the Sections specifying wood paneling, wood trim, and casework.

##### **Work in this/these area(s) AWMAC’s STANDARDS (NAAWS) Premium Grade.**

##### **Casework, paneling, doors and wood trim provided by same manufacturer.**

##### **[Veneer cut and figure to match Design Professional’s sample] or [Veneer log and/or flitch specified by Design Professional].**

Choose either veneer sample or specified log

##### **Faces of cabinet doors, drawer fronts and false fronts sequence matched, run and match vertically, and sequence matched with adjacent wall paneling and/or doors.**

##### **Faces at exposed ends of cabinets selected from same flitch, and well matched to adjacent paneling and to cabinet fronts.**

##### **Components including casework, paneling, doors and trim factory finished at same time in same facility.]**

### Stile and Rail Doors AWMAC’s STANDARDS (NAAWS) **[Custom] [Premium]** Grade.

Specify grade. Custom grade is typically specified and adequate for most high quality architectural woodwork.

#### Panels:

##### **[12.7 mm] [19 mm] [34.9 mm] [44.5 mm]** thick.

Use 12.7 mm or 19 mm panels for flat panel construction. Use thicker panels for raised panels.

### **[Veneered panels [book] [slip] [other] matched.]**

Default is book matched, if slip matched or other (see above in Products) is required, specify

#### Sticking and panel edge details **[per plans] [per manufacturer’s standard details as selected by Consultant]**.

### Factory Finishing:

Factory Finishing is strongly recommended. In addition to getting a better finish, you are moving the air quality problems off site, where a proper spray booth will protect the environment and the health of the finishers.

#### Grade: AWMAC’s STANDARDS (NAAWS) **[Premium Grade] [Custom Grade] [Match grade of product to be finished].**

#### AWMAC’s STANDARDS (NAAWS) finish system: [\_\_\_\_\_]

Finishing system number and name

# EXECUTION

## EXAMINATION

### Verify mechanical, electrical, plumbing, HVAC and other building components, affecting work of this Section are in place and functioning.

### Verify frames set square, plumb, level, and in plane.

#### Report openings not within tolerance before hanging doors.

## INSTALLATION

### Install work in conformance with the AWMAC’s STANDARDS (NAAWS).

### Conform to AWMAC’s STANDARDS (NAAWS) Grade(s).

### Doors secured in place, square, plumb, and level.

### Hardware installed complete and as recommended by manufacturer.

## ADJUSTING & TOUCH UP

### Adjust all moving and operating parts to function smoothly and correctly.

### Fill and retouch all nicks, chips and scratches. Replace all un-repairable damaged items.

## CLEANUP

### Upon completion of installation, clean installed items of pencil and ink marks and broom clean the area of operation.

**END OF SECTION**