

SECTION 08210 - WOOD DOORS

PART 1 - GENERAL

1.01 SUMMARY

**A. PROVIDE UNFINISHED WOOD DOORS.**

**B. CONTRACTOR'S OPTION: PROVIDE FACTORY FISHED WOOD DOORS TO MATCH EXISTING**

1.02 SUBMITTALS

A. PRODUCT DATA: SUBMIT MANUFACTURER'S DESCRIPTIVE LITERATURE, SPECIFICATIONS, INSTALLATION INSTRUCTIONS, WARRANTY FORM AND OTHER DATA REQUIRED TO INDICATE COMPLIANCE WITH SPECIFIED REQUIREMENTS.

B. SHOP DRAWINGS:

1. SUBMIT A LINIER DOOR SCHEDULE INDICATING OPENING IDENTIFYING NUMBER, DOOR TYPE, GRADE, SIZE THICKNESS, SWING, LABEL REQUIREMENTS AND UNDERCUTS.
2. INCLUDE DOOR ELEVATIONS INDICATING TYPE OF CONSTRUCTION CONDITIONS AT CUTOUTS FOR VISION PANELS AND LOUVERS.
3. DETAIL FULL SIZE MOLDING SECTIONS.
4. INDICATE PRE-FITTING AND PRE-MACHINING REQUIREMENTS INCLUDING HARDWARE LOCATIONS.
5. USE SAME REFERENCE NUMBER FOR OPENINGS AND DETAILS AS CONTRACT DRAWINGS.

C. SAMPLES: SUBMIT 8 1/2" X 11" SAMPLES SHOWING SPECIFIED WOOD VENEER AND SELECTED COLORS.

D. CERTIFICATES: SUBMIT TO INDICATE COMPLIANCE WITH SPECIFIED FABRICATION AND TEST REQUIREMENTS SIGNED BY AUTHORIZED REPRESENTATIVE OF DOOR MANUFACTURER.

1.03 QUALITY ASSURANCE

A. COMPLY WITH GOVERNING CODES AND REGULATIONS. USE EXPERIENCED INSTALLERS. DELIVER, HANDLE, AND STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

B. MANUFACTURER QUALIFICATIONS:

1. ALL PRODUCTS COVERED UNDER THIS SECTION SHALL BE PRODUCED BY A SINGLE MANUFACTURER UNLESS OTHER SPECIFIED.
2. MANUFACTURER SHALL SUBMIT EVIDENCE OF HAVING NOT LESS THAN TEN (10) YEARS SUCCESSFUL PRODUCTION OF THIS PRODUCT.

C. SOURCE QUALITY CONTROL: AWI QUALITY STANDARDS OF ARCHITECTURAL WOODWORK INSTITUTE, SECTION 01300.

- D. TO THE GREATEST EXTENT POSSIBLE, OBTAIN ALL DOORS AND FRAMES FROM ONE MANUFACTURER. WOOD DOOR SUPPLIER SHALL MAINTAIN AN OFFICE AND WAREHOUSE WITHIN 50 MILES FROM THE JOB SITE TO PROPERLY MAINTAIN AND SERVICE THE PROJECT DURING AND AFTER CONSTRUCTION IS COMPLETE.

1.04 DELIVERY, STORAGE AND HANDLING

- A. PROTECT DURING TRANSIT, STORAGE AND HANDLING TO PREVENT DAMAGE, SOILING AND DETERIORATION.
- B. COMPLY WITH MANUFACTURER'S INSTRUCTIONS AND WITH "ON-SITE-CARE" REQUIREMENTS OF AWI PAMPHLET "CARE AND FINISHING OF WOOD DOORS".
- C. DELIVER COMPONENTS IN MANUFACTURER'S ORIGINAL UNOPENED PROTECTIVE COVERING OR CONTAINER, CLEARLY MARKED WITH MANUFACTURER'S NAME, BRAND NAME AND IDENTIFYING NUMBER ON COVERING.
- D. STORAGE:
  - 1. STORE IN CLEAN, DRY, WELL VENTILATED AREA PROTECTED FROM SUNLIGHT.
  - 2. AVOID EXTREME HEAT, COLD, DRYNESS OR HUMIDITY.
  - 3. THE RELATIVE HUMIDITY IN THE STORAGE AREA SHALL NOT BE LESS THAN 10% NOR GREATER THAN 50%.
  - 4. STORE FLAT OVER LEVEL SURFACE ABOVE FLOOR ON WOOD BLOCKING.
  - 5. UNDER BOTTOM DOOR AND OVER TOP OF STACK, FURNISH PLYWOOD OR CORRUGATED CARDBOARD FOR PROTECTION.
- E. HANDLING: DO NOT DRAG DOORS ACROSS ONE ANOTHER OR ACROSS OTHER SURFACES.

1.05 WARRANTY

- A. SUBMIT WRITTEN WARRANTY ON MANUFACTURER'S STANDARD FORM SIGNED BY OFFICIAL OF DOOR MANUFACTURER AGREEING TO REPAIR OR REPLACE DEFECTIVE DOORS WHICH HAVE:
  - 1. DELAMINATED IN ANY DEGREE.
  - 2. WARP OR TWIST OF 1/4" OR MORE IN PLANE OF DOOR FACE.
  - 3. TELEGRAPHING OF STILE, RAIL OR CORE THROUGH FACE TO CAUSE SURFACE VARIATION IN EXCESS OF 1/100" IN ANY 1" SPAN.
  - 4. WHEN HANGING DOORS, DO NOT SUBJECT THEM TO EXTREMES OF HEAT AND/OR HUMIDITY CONDITIONS. RELATIVE HUMIDITY SHALL NOT BE LESS THAN 30% NOR MORE THAN 50%.
- B. WARRANTY SHALL ALSO INCLUDE REFINISHING AND REINSTALLATION WHICH MAY BE REQUIRED DUE TO REPAIR OR REPLACEMENT OF THE DEFECTIVE DOORS.
- C. WARRANTY SHALL BE IN EFFECT FOR LIFE OF ORIGINAL INSTALLATION (INTERIOR USE).

1.06 ACCEPTABLE MANUFACTURERS

**WEST NAVARRE INTERMEDIATE SCHOOL**  
**5 CLASSROOM ADDITION**

- A. A SPECIFIC PRODUCT OR MATERIAL MANUFACTURED BY ANY OF THE FOLLOWING LISTED MANUFACTURERS IS "ACCEPTABLE" (NOT "APPROVED") ONLY IF THE SPECIFIC PRODUCT OR MATERIAL CAN EVIDENCE EXACT COMPLIANCE WITH THE CONTRACT DOCUMENTS.

1. VT ARCHITECTURAL WOOD DOORS  
1000 INDUSTRIAL PARK  
HOLSTEIN, IA 51025  
PHONE: 800-827-1615
2. ALGOMA HARDWOODS, INC.  
1001 PERRY STREET  
ALGOMA, WISCONSIN 54201  
PHONE TOLL FREE: 800-558-0155
3. EGGERS INDUSTRIES, ARCHITECTURAL DOOR DIVISION  
164 NORTH LAKE STREET  
NEENAH, WISCONSIN 54956  
PHONE: 414-722-6444
4. MARSHFIELD DOOR SYSTEMS, INC.  
1401 EAST FOURTH STREET  
MARSHFIELD, WI 54449-7780  
PHONE: 800-869-3667

**PART 2 - PRODUCTS**

**2.01 MATERIALS**

- A. WOOD DOORS FOR TRANSPARENT FINISH: SOLID CORE FLUSH WOOD DOOR FOR INTERIOR USE; AWI PREMIUM GRADE.
1. SOLID CORE: ARCHITECTURAL GRADE OF 5-PLY CONSTRUCTION.
  2. MODEL: AWI TYPE PC-5 (PC-7 NOT ACCEPTABLE).
  3. STYLE: FLUSH, OR AS INDICATED ON DOOR SCHEDULE.
  4. FACE: AWI PREMIUM GRADE RED OAK VENEER, PLAIN SLICED.
  5. CORE: STRUCTURAL COMPOSITE LUMBER.
  6. STILE EDGES: MATCHING HARDWOOD STILE EDGES BONDED TO CORE, 1 1/8" MINIMUM AFTER TRIM.
  7. CROSSBAND: MINIMUM 1/16" KILN DRIED POPLAR.
  8. RAIL EDGES: MILL OPTION SOFTWOOD BONDED TO CORE, 1 1/18" MINIMUM AFTER TRIM.
  9. ADHESIVE: EXTERIOR OR WET/DAMP INTERIOR USE, TYPE I - INTERIOR USE, TYPE II.
- B. WOOD DOORS FOR LABELED FIRE DOORS: SOLID CORE FLUSH WOOD DOOR FOR INTERIOR USE; AWI PREMIUM GRADE.
1. MODEL: AWI TYPE FD.
  2. STYLE: FLUSH, OR AS INDICATED ON DOOR SCHEDULE.
  3. FACE: AWI PREMIUM GRADE RED OAK VENEER, PLAIN SLICED.
  4. CORE: NON-COMBUSTIBLE MINERAL (NO ASBESTOS).
  5. STILE EDGES: 5/8" AFTER TRIMMING TREATED HARDWOOD.

**WEST NAVARRE INTERMEDIATE SCHOOL**  
**5 CLASSROOM ADDITION**

6. RAIL EDGES: TOP, 1/2" MINIMUM TREATED. BOTTOM, 1 1/2" MINIMUM TREATED.
7. RATING: AS INDICATED ON DOOR SCHEDULE.

**PART 3 - EXECUTION**

**3.01 INSTALLATION**

**A. FABRICATION:**

1. GENERAL:
  - A. COMPLY WITH AWI QUALITY STANDARDS SECTION 1300 EXCEPT TO MEET OR EXCEED REQUIREMENTS HEREIN SPECIFIED.
  - B. COMPLETELY FACTORY PREFIT TO REQUIRE SIZE READY FOR INSTALLATION AT PROJECT SITE, NO ON-JOBSITE TRIMMING PERMITTED.
  - C. PREPARE IN ACCORDANCE WITH FRAME SHOP DRAWINGS AND SCHEDULE, HARDWARE SCHEDULE, AND TEMPLATES.
  - D. PROVIDE 1" A. F. F. UNDERCUT FOR ALL DOORS BEING USED FOR RETURN AIR. SEE MECHANICAL DRAWINGS FOR LOCATIONS.
2. THICKNESS: 1 3/4" THICK UNLESS INDICATED OTHERWISE ON DOOR SCHEDULE.
3. FABRICATING TOLERANCES:
  - A. PREFIT SIZE + OR -1/32" OVERALL DIMENSIONS.
  - B. SQUARENESS: LENGTH OR DIAGONAL MEASURED ON FACE OF DOOR FROM UPPER LEFT CORNER TO LOWER RIGHT CORNER WITH MAXIMUM DIFFERENCE OF 1/8".
  - C. MAXIMUM WARP 1/4".
  - D. SHOW-THROUGH (TELEGRAPHING): 1/100" DEVIATION FROM TRUE PLANE IN ANY 3" SPAN ON DOOR FACE.

**B. PREPARATION:**

1. EXAMINE DOOR FRAMES AND VERIFY FRAMES ARE OF CORRECT TYPE AND HAVE BEEN INSTALLED FOR PROPER HANGING OF CORRESPONDING DOORS.

**C. INSTALLATION:**

1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
2. INSTALL FIRE RATED DOORS IN ACCORDANCE WITHIN NFPA 80.
3. INSTALL ACCURATELY IN FRAME, WITHIN CLEARANCES SPECIFIED. INSTALL HARDWARE IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND ASSOCIATED TEMPLATES. REFER TO GENERAL INSTALLATIONS REQUIREMENTS.
4. DO NOT FIELD CUT DOORS DOWN TO OPENING SIZES SMALLER THAN

**WEST NAVARRE INTERMEDIATE SCHOOL**  
**5 CLASSROOM ADDITION**

THOSE FOR WHICH DOORS WERE MANUFACTURED. DO NOT INSTALL DOORS IN FRAMES SET OUT OF PLUMB.

5. INSTALL TO OPERATE FREELY, BUT NOT LOOSELY, FREE FROM HINGE BOUND CONDITIONS, STRIKING OR BINDING. DO NOT INSTALL IN FRAMES WHICH WOULD HINDER OPERATION OF DOORS. HANG FREE FROM RATTLING WHEN IN LATCHED POSITION.

D. ADJUSTING:

1. ADJUST AND CHECK EACH DOOR TO ENSURE PROPER OPERATING AND FUNCTION.
2. REPLACE OR REHANG DOORS WHICH ARE HINGE BOUND AND DO NOT SWING OR OPERATE FREELY. REMOVE AND REPLACE DOORS WHICH ARE WARPED, TWISTED, OR WHICH ARE NOT IN TRUE PLANES.
3. REPLACE DOORS THAT HAVE BEEN DAMAGED DURING INSTALLATION.

E. **SHOP FINISH OPTION: SAND AND PROVIDE FINISH SYSTEM SPECIFIED IN 09900-PAINTING. WRAP AND PROTECT.**

END OF SECTION