



SECTION 08211 WOOD DOORS :
PART 1 GENERAL

1.1 Section includes

- A. Stile and Rail Fire rated doors. (Positive Pressure)
 - 1. Door ratings.
 - 2. Door configurations.
 - 3. Door Frame assemblies

1.2 Related sections

- A. Section 08100 – Wood door frames.
- B. Section 08710 – Door hardware, Hinges, Locks, Closers and related door hardware.
- C. Glass and glazing.

1.3 References

- A. ASTM E-2074 Standard test method for fire test of door assemblies.
- B. UBC 7-2 Fire test of door assemblies.
- C. UL 10-C Standard for positive pressure fire test of door assemblies.
- D. NFPA 80 Standard for Fire doors and Fire windows.
- E. NFPA 252 Standard methods of fire tests of door assemblies.
- F. IBC 713-97' Fire Resistive Assemblies For Protection of openings.
- G. IBC 715-2003' Opening Protectives.

1.4 Submittals

- A. Submit under provisions of section 01300
- B. Manufacturer data on each product:
 - 1. Performance and physical data on each product used.
 - 2. Preparation instructions and Recommendations.
 - 3. Storage and handling requirements.
 - 4. Installation instructions and requirements.
 - 5. Maintenance instructions for sealing door edges.
- C. Shop Drawings
 - 1. Submit schedule and elevations indicating door sizes, configuration, swing, hardware and it's application requirements.(or cut-outs)
 - 2. Installation Instructions
 - 3. Undercut.
- D. Samples
 - 1. Submit samples of veneer species, grain, cut, color and lay up.
- E. Certificates
 - 1. Submit manufacturers certification of compliance, with specified performance and physical properties.

F. Test Reports

1. Submit certified test reports showing compliance with specified performance and physical properties.

G. Closeout

1. Submit Warranty documents for each product specified.

1.5 Quality Assurance

A. Regulatory requirements.

1. Provide labels approved by a certified fire testing lab such as; ITS- Warnock Hersey or UnderWriters Laboratories, for each product according to it's rating design.
2. Attach labels to doors/frames according to labeling authorities rules and regulations.
3. Provide certified personnel for consultation in the event of installation discrepancies.

1.6 Delivery, Storage and Handling

- A. Doors/frames shall be packaged with sheet foam and poly bags to adequately protect product during delivery phase.
- B. Deliver in manufacturers unopened , undamaged packaging , with labels intact.
- C. Inspect carefully,all products at time of delivery.

1.7 Project conditions

A. Installation site conditions.

1. Relative Humidity shall be 30 – 50 percent at least 24 hours before installation and maintained thereafter.
2. Temperature shall be 60-80 degrees at least 24 hours before installation and maintained thereafter.

1.8 Warranty

A. All products shall be covered under a full warranty to include:

1. Delamination in any degree.
 2. Warp of _ inch within an eight foot span.
 3. Any manufacturer defect which would affect normal use as described and intended.
 4. Any defect which may conflict with product's intended labeling.
- B. Warranty shall be in effect for a period of 1 years after the date of installation.
 - B. Warranty shall be submitted with each product specified at the time of delivery.

PART 2 PRODUCTS

2.1 Manufacturers

- A. ARTISTIC DOORS AND WINDOWS
10 S. INMAN AVENUE, AVENEL NJ 07001
ph. 732-726-9400 fax 732-726-9494
Email info@artisticdoorsandwindows.com
- B. Substitutions must be submitted for approval

2.2 Stile and rail wood doors

- H. True stile and rail, fire rated doors:
 - 1. Components and assemblies shall conform to certifying lab's manufacturing specifications minimum sizes and tolerances.
 - 2. Veneers shall be no less than 1/10 of an inch(solid or laminated)
 - 3. Veneers shall be layed up according to shop drawing details.
 - 4. Assemblies shall be prefitted at manufacturers facility according to exact sizes listed in shop drawings.

2.3 Positive Pressure fire rated doors

- A. Requirements:
 - 1. Door construction conform to certifying lab's manufacturing specifications for positive pressure standards.
 - 2. Door Assemblies to conform to certifying lab's manufacturing specifications for positive pressure standards.
 - 3. Doors Assemblies are labeled with the words "Positive Pressure".
 - 4. Doors assemblies are marked with fire rating category:
 - a. Category "A" – No additional edge sealing required.
 - b. Category "B" - additional edge sealing required,(which must be installed by a licensed contractor).
 - c. Where necessary , an additional smoke seal shall be added to comply with the smoke rating.

2.4 Fabrication

- A. Doors shall be fabricated according to certifying lab's manufacturing manual for the product specified.
- B. Frames shall be fabricated according to certifying lab's manufacturing manual for the product specified.
- C. Doors Assemblies shall be fabricated according to certifying lab's manufacturing manual for tolerances, operation, and hardware preparation/installation.

PART 3 EXECUTION

3.1 Examination

- A. Do not begin installation until all substrates have been properly prepared.
 - 1. Ensure rough opening sizes conform to specified shop drawings.
 - 2. Ensure walls are the correct type and rating to receive door assemblies.
 - 3. Contact Architect or General contractor if conditions are non-compliant.

3.2 Preparation

- A. Acclimate door unit to site environment 24 hours before installation.
- B. Clean substrates thoroughly prior to installation.

3.3 Installation

- A. Install door frames with proper type and length screws according to manufacturers written installation instructions.
- B. Install doors into frames according to manufacturers written instructions, then shim as necessary to adjust spacing for proper fit and operation of entire unit.
- C. Install hardware as per manufacturers specifications.
 - 1. Pre-drill pilot holes to the correct width and depth necessary for hardware mounting screws.
 - 2. Fit hardware to proper position for uninhibited function.
 - 3. Check all hardware for proper operation when completed.
 - 4. Contact manufacturer for discrepancies in fit or operation.

3.4 Protection

- A. Protect installed products until completion of project.
- B. Touch up, repair, or replace any damage to product before completion of project.

3.5 Schedules

- A. Submit schedules for multiple units on shop drawings.
- B. Outline details including.
 - 1. Unit configuration
 - a. Single or pairs.
 - b. Prehung in frame.
 - c. Unit sizes
 - d. Swing.
 - e. Species
 - 2. Door configuration
 - a. Panel / lite quantities and type
 - b. Fire rating
 - c. Category rating.

Artistic “TRUE STILE AND RAIL” Fire Doors

20 MINUTE FIRE RATING – WITH FRAMES

LABELING SOURCE	ITS – WARNOCK HERSEY
CLASSIFICATION	CATEGORY “A” (NO ADDITIONAL EDGE SEALING REQUIRED) POSITIVE PRESSURE
TEST STANDARDS	UBC 7-2 (1997) PART 1 UL 10 (C) NFPA 252 ASTM E 2074-00
TEMPERATURE RISE	250 DEGRESS @ 30 MIN.
STANDARD DOOR THICKNESS	1-3/4”
MAX. DOOR SIZE / SINGLE	3/6 X 8/0
MAX. DOOR SIZE / PAIRS	7/0 X 8/0
MIN. STILE WIDTH	5 – _”
MIN. TOP RAIL WIDTH	5 – _”
MIN. BOTTOM RAIL WIDTH	10”
MIN. VERT./LOCK RAIL WIDTH	3”
MAX. RECESSED PANEL SIZE	32” X 82”
MAX. RAISED PANEL SIZE	32” X 82”
MIN. RECESSED PANEL SIZE	3” X 3”
MIN RAISED PANEL SIZE	3” X 3”
MIN PANEL THICKNESS	5/8”

MAX PANEL THICKNESS	NO LIMIT
MAX. GLAZING AREA	1292 SQ. IN. PER LITE 38" WIDE X 34" HIGH PER LITE
GLAZING TYPE	FIRELITE/FIREGLASS 20 (NO WIRE)
WOOD SPECIES	ALL HARDWOODS
LOCKS	MORTISE, CYLINDER, RIM TYPE
CLOSERS	SURFACE MOUNTED
FLUSH BOLTS	AUTOMATIC MANUAL WITH 12" EXTENSIONS SURFACE MOUNTED
VIEWERS	LISTED VIEWERS ALLOWED
EXIT/PANIC HARDWARE	SURFACE MOUNTED

FIRE RATED FRAMES

MAX. SIZE	3/6 X 8/0 SINGLE 7/0 X 8/0 DOUBLE
CLASSIFICATION	CATEGORY "C" POSITIVE PRESSURE
MIN. THROAT SIZE	5"
MIN. THICKNESS	1-1/4"
MIN. STOP SIZE	5/8" X 1-1/4"
WOOD SPECIES	ALL HARDWOODS
CASING	NONE REQUIRED

ARTISTIC'S
"TRUE STILE AND RAIL"
FIRE DOORS

45/60 MINUTE FIRE RATING – WITH FRAMES

LABELING SOURCE	ITS – WARNOCK HERSEY
CLASSIFICATION	CATEGORY "A" (NO ADDITIONAL EDGE SEALING REQUIRED) POSITIVE PRESSURE
TEST STANDARDS	UBC 7-2 (1997) PART 1 UL 10 (C) NFPA 252 ASTM E 2074-00
TEMPERATURE RISE	250 DEGRESS @ 30 MIN.
STANDARD DOOR THICKNESS	1-3/4"
MAX. DOOR SIZE / SINGLE	3/6 X 9/0
MAX. DOOR SIZE / PAIRS	7/0 X 8/0
MIN. STILE WIDTH	4-7/8"
MIN. TOP RAIL WIDTH	4-7/8"
MIN. BOTTOM RAIL WIDTH	4-7/8"
MIN. VERT./LOCK RAIL WIDTH	3"
MAX. PANEL SIZE (FLAT/RAISED)	32" X 93"
MIN. PANEL SIZE (FLAT/RAISED)	3" X 3"
MIN. PANEL THICKNESS	ONE HALF INCH
MAX. PANEL THICKNESS	NO LIMIT

MOULDING PROFILE	ALL AVAILABLE
DOOR CONFIGURATION	ALL AVAIL. INCLUDING- FRENCH DOORS
MAX. GLAZING AREA	2835 SQ. IN. PER LITE
GLAZING TYPE	_” FIRELITE PLUS
GLAZING STOP	PROPRIETARY DETAIL ALLOWS EXACT MATCH TO PANEL STICKING
WOOD SPECIES	ALL HARDWOODS
LOCKS	MORTISE, CYLINDER, RIM TYPE
CLOSERS	SURFACE MOUNTED CONCEALED
FLUSH BOLTS	EDGE MORTISED WITH 12” EXTENSIONS AUTOMATIC SURFACE MOUNTED
VIEWERS	LISTED VIEWERS ALLOWED
EXIT/PANIC HARDWARE	SURFACE MOUNTED (NO THROUGH BOLTS NECESSARY)

FIRE RATED FRAMES

MAX. SIZE	3/6 X 9/0 SINGLE 7/0 X 8/0 DOUBLE
CLASSIFICATION	CATEGORY “A” POSITIVE PRESSURE
MIN. THROAT SIZE	4-9/16”
MIN. STOP SIZE	5/8” X 1-1/4”

WOOD SPECIES	ALL HARDWOODS
CASING	NONE REQUIRED

ARTISTIC'S
"TRUE STILE AND RAIL"
FIRE DOORS

90 MINUTE FIRE RATING – WITH FRAMES

LABELING SOURCE	ITS – WARNOCK HERSEY
CLASSIFICATION	CATEGORY "A" (NO ADDITIONAL EDGE SEALING REQUIRED) POSITIVE PRESSURE
TEST STANDARDS	UBC 7-2 (1997) PART 1 UL 10 (C) NFPA 252 ASTM E 2074-00
TEMPERATURE RISE	250 DEGRESS @ 30 MIN.
STANDARD DOOR THICKNESS	1-3/4"
MAX. DOOR SIZE / SINGLE	3/6 X 9/0
MAX. DOOR SIZE / PAIRS	7/0 X 8/0
MIN. STILE WIDTH	4-7/8"
MIN. TOP RAIL WIDTH	4-7/8"
MIN. BOTTOM RAIL WIDTH	4-7/8"
MIN. VERT./LOCK RAIL WIDTH	3"
MAX. PANEL SIZE (FLAT/RAISED)	32" X 93"

MIN. PANEL SIZE (FLAT/RAISED)	3" X 3"
MIN. PANEL THICKNESS	ONE HALF INCH
MAX. PANEL THICKNESS	NO LIMIT
MOULDING PROFILE	ALL AVAILABLE
DOOR CONFIGURATION	ALL AVAIL. INCLUDING- FRENCH DOORS
MAX. GLAZING AREA	2835 SQ. IN. PER LITE
GLAZING TYPE	_ " FIRELITE PLUS
GLAZING STOP	PROPRIETARY DETAIL ALLOWS EXACT MATCH TO PANEL STICKING
WOOD SPECIES	ALL HARDWOODS
LOCKS	MORTISE, CYLINDER, RIM TYPE
CLOSERS	SURFACE MOUNTED CONCEALED
FLUSH BOLTS	EDGE MORTISED WITH 12" EXTENSIONS AUTOMATIC SURFACE MOUNTED
VIEWERS	LISTED VIEWERS ALLOWED
EXIT/PANIC HARDWARE	SURFACE MOUNTED (NO THROUGH BOLTS NECESSARY)

FIRE RATED FRAMES

MAX. SIZE	3/6 X 9/0 SINGLE 7/0 X 8/0 DOUBLE
CLASSIFICATION	CATEGORY "A" POSITIVE PRESSURE

MIN. THROAT SIZE	4-9/16"
MIN. THICKNESS	1"
MIN. STOP SIZE	5/8" X 1-1/4"
WOOD SPECIES	ALL HARDWOODS
CASING	NONE REQUIRED