SECTION 08 16 00

COMPOSITE INTERIOR DOORS

JELD-WEN TRIA Premium Composite Interior Doors

Display hidden notes to specifier. (Don't know how? [Click Here](http://www.arcat.com/sd/display_hidden_notes.shtml))

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\*\* NOTE TO SPECIFIER \*\* JELD-WEN, Inc.; composite interior doors.  
This section is based on the products of JELD-WEN, Inc., which is located at:  
2645 Silver Crescent Dr. Suite 400  
Charlotte, NC 28273   
Toll Free Tel: 800-535-3936  
Tel: 541-850-2606  
Fax: 541-851-4333  
Email: [request info (Architectural\_Inquiries@jeld-wen.com)](http://admin.arcat.com/users.pl?action=UserEmail&company=JELD-WEN,+Inc.&coid=33445&rep=&fax=541-851-4333&message=RE:%20Spec%20Question%20(08215jwi):%20%20&mf=)  
Web: [www.jeld-wen.com](http://www.jeld-wen.com)   
 [ [Click Here](http://www.arcat.com/arcatcos/cos33/arc33445.html) ] for additional information.  
As a JELD-WEN customer, you can count on us to provide reliable products and service. We are a comprehensive source for dependable wood, vinyl and aluminum windows; wood and wood composite interior doors; and wood, steel, wood composite and fiberglass exterior doors.

1. GENERAL
   1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete items below not required for project.

* + 1. Composite wood doors with simulated panels.
    2. Pre-fitted and pre-machined, simulated stile and rail wood doors.
  1. RELATED SECTIONS
     1. Section 06 10 00 - Rough Carpentry.
     2. Section 09 21 16.23 - Gypsum Board Shaft Wall Assemblies.
  2. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. American National Standards Institute (ANSI):
       1. A115-W - WOOD DOOR HARDWARE STANDARDS Hardware Preparations.
       2. A117.1 - Accessible and Usable Buildings and Facilities.
    2. ASTM International (ASTM):
       1. ASTM E119 - Standard Test Methods for Fire Tests of Building Construction and Materials.
    3. National Fire Protection Association (NFPA):
       1. NFPA-80 - Standard for Fire Doors and Windows.
       2. NFPA-252 - Standard Methods of Fire Tests of Door Assemblies.
    4. Underwriters Laboratories (UL):
       1. UL 10C - Positive Pressure Fire Tests of Door Assemblies.
    5. Uniform Building Code (UBC):
       1. UBC 7-2 - Fire Test of Door Assemblies.
    6. Window and Door Manufacturers Association (WDMA):
       1. IS 1 - Industry Standard for Architectural Wood Doors.
  1. SUBMITTALS
     1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
        1. Product Data: Manufacturer's data sheets on products to be used, including:
           1. Preparation instructions and recommendations.
           2. Storage and handling requirements and recommendations.
           3. Operations and Maintenance data
           4. Installation methods.
     2. Shop Drawings: Submit shop drawings indicating details of construction, and relationship with adjacent construction.
     3. Verification Samples: For each factory-finished product specified, two samples, minimum size 12 inch (300 mm) square, representing actual finishes.
     4. Quality Assurance Submittals:

\*\* NOTE TO SPECIFIER \*\* Retain when other products may be submitted as substitution. If the section is to be proprietary, delete.

* + - 1. Design Data, Test Reports: Provide manufacturer test reports indicating product compliance with indicated requirements.
      2. Certification that doors and frames comply with UBC 7-2.
      3. Manufacturer Instructions: Provide manufacturer's written installation instructions.
    1. Closeout Submittals: Refer to Section 01 70 00 - Execution and Closeout Requirements.
  1. QUALITY ASSURANCE
     1. Installer Qualifications: Minimum 3 years installing similar assemblies.
     2. Fire-Rated Simulated Stile and Rail Wood Doors: Meet fire-protection ratings indicated when tested in accordance with the following: NFPA 252, labeled and listed for ratings indicated by testing and inspection agency acceptable to authorities having jurisdiction.
        1. Test doors in compliance with ASTM E119.
        2. Comply with UBC 7-2 where required.
        3. Comply with UL-10C Category A and Category B.
        4. Temperature Rise Rating: At Stairwell Enclosures: 250 degrees F maximum in 30 minutes of fire exposure.
     3. Certifications:
        1. WDMA Hallmark certification label indicating assemblies meet the design requirements.
        2. Warnock Hersey, Inc (WH)
        3. Underwriters Laboratories, Inc. (UL)

\*\* NOTE TO SPECIFIER \*\* Include a mock-up if the project size or quality parameters warrant taking such a precaution. The following is one example of how a mock-up on a large project might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project.

* + 1. Mock-Up: Provide a mock-up for evaluation of installation techniques and workmanship.
       1. Mock-ups shall incorporate surrounding construction, including wall assembly fasteners, flashing, and other related accessories installed in accordance with manufacturer's approved installation methods.
       2. Do not proceed with remaining work until workmanship is approved by Architect.
       3. Rework mock-up as required to produce acceptable work.

\*\* NOTE TO SPECIFIER \*\* Delete one of the two following subparagraphs.

* + - 1. At Substantial Completion, approved mockups may become part of completed Work.
      2. Demolish mockups and remove from site.
    1. Pre-installation Meeting: Conduct pre-installation meeting on site two weeks prior to commencement of installation.
  1. DELIVERY, STORAGE, AND HANDLING
     1. Deliver, store and handle materials and products in strict compliance with manufacturer's instructions and recommendations and industry standards.
     2. Deliver and store assembly materials and components in manufacturer's original, unopened, undamaged containers with identification labels intact.
        1. Protect from damage and exposure to direct sunlight during storage.
        2. Store in a dry, well-ventilated area off of the floor.
        3. During storage, do not remove paper or cardboard placed between products for shipment.

\*\* NOTE TO SPECIFIER \*\* The subparagraph below is the manufacturer's recommendation and not a mandatory requirement. Delete if not required.

* + - 1. Store in a humidity and temperature controlled facility. Recommended conditions: 30 to 50 percent relative humidity and 50 to 90 degrees F (10 to 32 degrees C)
    1. Handling: Handle with clean hands and equipment. Lift and carry the products when moving them. Do not drag across one another.
  1. PROJECT CONDITIONS
     1. Maintain environmental conditions; temperature, humidity, and ventilation, within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.
  2. WARRANTY
     1. Manufacturer's Standard Warranty: Door assemblies will be free from defects in materials and workmanship from the date of manufacture for a time period of 10 years.

\*\* SPECIFIER NOTE \*\* Product Information is proprietary to JELD-WEN. If additional products are required for competitive procurement, contact JELD-WEN for assistance in listing competitive products that may be available.

1. PRODUCTS
   1. MANUFACTURERS
      1. Acceptable Manufacturer: JELD-WEN, Inc., which is located at: 2645 Silver Crescent Dr. Suite 400; Charlotte, NC 28273 ; Toll Free Tel: 800-535-3936; Tel: 541-850-2606; Fax: 541-851-4333; Email: [request info (Architectural\_Inquiries@jeld-wen.com)](http://admin.arcat.com/users.pl?action=UserEmail&company=JELD-WEN,+Inc.&coid=33445&rep=&fax=541-851-4333&message=RE:%20Spec%20Question%20(08215jwi):%20%20&mf=); Web: [www.jeld-wen.com](http://www.jeld-wen.com)

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
    2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.
  1. COMPOSITE INTERIOR DOORS
     1. Basis of Design: TRIA Composite Interior Doors by JELD-WEN, Inc.
     2. R-Series Doors: 1-3/4 inch (44 mm) thick.
        1. Non-Rated Interior Doors:
           1. Skins: 1/8 inch (3 mm) primed MDF.
           2. Core: 28 lb. (13.7 kg) minimum particleboard.
           3. Stiles: 1 inch (25 mm) softwood.
           4. Top and bottom rails: 2-1/4 inch (57 mm) full bound wood.
           5. Molding: Not required.
           6. Molding: Premium MDF bonded into CNC machined cavity.

\*\* NOTE TO SPECIFIER \*\* Choose molding profiles below. Delete those not required.

* + - * 1. Molding Profile: R-Series.
        2. Molding Profile: R-Series Flush.
        3. Molding Profile: Architectural.
        4. Molding Profile: Architectural Flush.
        5. Molding Profile: Designer.
        6. Molding Profile: Designer Flush.
        7. Adhesive: Moisture resistant Type 1 glue for internal door construction.

\*\* NOTE TO SPECIFIER \*\* See manufacturer's website for detailed information or contact a JELD-WEN representative.

* + - * 1. Panel and Profile Design: Design \_\_\_\_\_\_ on all doors.
        2. Panel and Profile Design: Design \_\_\_\_\_\_ on corridor side of door.
        3. Panel and Profile Design: Design \_\_\_\_\_\_ on room side or door.
      1. Fire Rated Interior Doors:
         1. Skins: 9/16 inch (14 mm) premium grade primed MDF
         2. Core: 5/8 inch (16 mm) Palusol Intumescent.
         3. Stiles: Edgebanded MDF on each vertical edge.
         4. Molding: Not required.
         5. Molding: Premium MDF bonded into CNC machined cavity.

\*\* NOTE TO SPECIFIER \*\* Choose molding profiles below. Delete those not required.

* + - * 1. Molding Profile: Standard R-series, 20-minute.
        2. Molding Profile: Standard R-series, 45-minute.
        3. Molding Profile: Standard R-series, 60-minute.
        4. Molding Profile: Standard R-series, 90-minute.
        5. Molding Profile: Plant-On R-series, 90-Minute.
        6. Molding Profile: Architectural; 20-minute.
        7. Molding Profile: Plant-On Architectural; 45-minute.
        8. Molding Profile: Plant-On Architectural; 60-minute.
        9. Molding Profile: Plant-On Architectural; 90-minute.
        10. Molding Profile: Designer; 20-minute.
        11. Adhesive: Moisture resistant Type 1 glue for internal door construction.

\*\* NOTE TO SPECIFIER \*\* See manufacturer's website for detailed information or contact a JELD-WEN representative.

* + - * 1. Panel and Profile Design: Design \_\_\_\_\_\_ on all doors.
        2. Panel and Profile Design: Design \_\_\_\_\_\_ on corridor side of door.
        3. Panel and Profile Design: Design \_\_\_\_\_\_ on room side or door.
    1. C-Series Doors:
       1. 1-3/4 inch (44 mm) Doors:
          1. Skins: 1/2 inch (13 mm) premium grade primed MDF.
          2. Core: 3/4 inch (19 mm) EPS foam.
          3. Stiles: 1-3/8 inch (35 mm) wood on each vertical edge. precision routed into and sandwiched between the MDF skins.
          4. Adhesive: Moisture resistant Type 1 glue for internal door construction.

\*\* NOTE TO SPECIFIER \*\* See manufacturer's website for detailed information or contact a JELD-WEN representative.

* + - * 1. Panel and Profile Design: Design \_\_\_\_\_\_ on all doors.
        2. Panel and Profile Design: Design \_\_\_\_\_\_ on corridor side of door.
        3. Panel and Profile Design: Design \_\_\_\_\_\_ on room side or door.
      1. 1-3/8 inch (35 mm) Doors:
         1. Skins: 3/8 inch (10 mm) premium grade primed MDF.
         2. Core: 5/8 inch (16 mm) EPS foam.
         3. Stiles: 1-3/8 inch (35 mm) Wood on each vertical edge precision routed into and sandwiched between the MDF skins.
         4. Adhesive: Moisture resistant Type 1 glue for internal door construction.

\*\* NOTE TO SPECIFIER \*\* See manufacturer's website for detailed information or contact a JELD-WEN representative.

* + - * 1. Panel and Profile Design: Design \_\_\_\_\_\_ on all doors.
        2. Panel and Profile Design: Design \_\_\_\_\_\_ on corridor side of door.
        3. Panel and Profile Design: Design \_\_\_\_\_\_ on room side or door.
      1. 1-3/4 inch (44 mm) 20-Minute Doors:
         1. Skins: 7/8 inch (22 mm) premium grade primed MDF.
         2. Core: Not required.
         3. Stiles1-3/8 inch (35 mm) wood on each vertical edge precision routed into and sandwiched between MDF skins.
         4. Adhesive: Moisture resistant Type 1 glue for internal door construction.

\*\* NOTE TO SPECIFIER \*\* See manufacturer's website for detailed information or contact a JELD-WEN representative.

* + - * 1. Panel and Profile Design: Design \_\_\_\_\_\_ on all doors.
        2. Panel and Profile Design: Design \_\_\_\_\_\_ on corridor side of door.
        3. Panel and Profile Design: Design \_\_\_\_\_\_ on room side or door.
      1. 1-3/4 inch (44 mm) 90-Minute Doors:
         1. Skins: 9/16 inch (14 mm) premium grade primed MDF.
         2. Core: 5/8 inch (16 mm) Palusol Intumescent.
         3. Stiles: Edgebanded MDF on each vertical edge.
         4. Adhesive: Moisture resistant Type 1 glue for internal door construction.

\*\* NOTE TO SPECIFIER \*\* See manufacturer's website for detailed information or contact a JELD-WEN representative.

* + - * 1. Panel and Profile Design: Design \_\_\_\_\_\_ on all doors.
        2. Panel and Profile Design: Design \_\_\_\_\_\_ on corridor side of door.
        3. Panel and Profile Design: Design \_\_\_\_\_\_ on room side or door.
    1. L-Series Doors
       1. 1-3/8 inch (35 mm) Flat Panel Doors:
          1. Skins: 11/16 inch (17 mm) Premium grade primed MDF.
          2. Core: 3/8 inch (10 mm) MDF flat panel boards.
          3. Stiles: 1 inch (25 mm) fir on each vertical edge precision routed into and sandwiched between the MDF skins.
          4. Adhesive: Moisture resistant Type 1 glue for internal door construction.

\*\* NOTE TO SPECIFIER \*\* See manufacturer's website for detailed information or contact a JELD-WEN representative.

* + - * 1. Panel and Profile Design: Design \_\_\_\_\_\_ on all doors.
        2. Panel and Profile Design: Design \_\_\_\_\_\_ on corridor side of door.
        3. Panel and Profile Design: Design \_\_\_\_\_\_ on room side or door.
      1. 1-3/4 inch (44 mm) Flat Panel Doors:
         1. Skins: 7/8 inch (22 mm) Premium grade primed MDF
         2. Core: 3/8 inch (10 mm) MDF flat panel boards.
         3. Stiles: 1 inch (25 mm) fir on each vertical edge precision routed into and sandwiched between the MDF skins.
         4. Adhesive: Moisture resistant Type 1 glue for internal door construction.

\*\* NOTE TO SPECIFIER \*\* See manufacturer's website for detailed information or contact a JELD-WEN representative.

* + - * 1. Panel and Profile Design: Design \_\_\_\_\_\_ on all doors.
        2. Panel and Profile Design: Design \_\_\_\_\_\_ on corridor side of door.
        3. Panel and Profile Design: Design \_\_\_\_\_\_ on room side or door.
      1. 1-3/8 inch (35 mm) Raise Panel Doors:
         1. Skins: 11/16 inch (17 mm) Premium grade primed MDF.

\*\* NOTE TO SPECIFIER \*\* Choose core size below. Delete those not required.

* + - * 1. Core: 9/16 inch (14 mm) MDF raised panel boards.
        2. Core: 7/8 inch (22 mm) MDF raised panel boards.
        3. Core: 1-1/4 inch (32 mm) MDF raised panel boards.
        4. Stiles: 1 inch (25 mm) fir on each vertical edge precision routed into and sandwiched between the MDF skins.
        5. Adhesive: Moisture resistant Type 1 glue for internal door construction.

\*\* NOTE TO SPECIFIER \*\* See manufacturer's website for detailed information or contact a JELD-WEN representative.

* + - * 1. Panel and Profile Design: Design \_\_\_\_\_\_ on all doors.
        2. Panel and Profile Design: Design \_\_\_\_\_\_ on corridor side of door.
        3. Panel and Profile Design: Design \_\_\_\_\_\_ on room side or door.
      1. 1-3/4 (44 mm) Raise Panel Doors:
         1. Skins: 7/8 (22 mm) Premium grade primed MDF.

\*\* NOTE TO SPECIFIER \*\* Choose core size below. Delete those not required.

* + - * 1. Core: 9/16 inch (14 mm) MDF raised panel boards.
        2. Core: 7/8 inch (22 mm) MDF raised panel boards.
        3. Core: 1-1/4 inch (32 mm) MDF raised panel boards.
        4. Stiles: 1 inch (25 mm) fir on each vertical edge precision routed into and sandwiched between the MDF skins.
        5. Adhesive: Moisture resistant Type 1 glue for internal door construction.

\*\* NOTE TO SPECIFIER \*\* See manufacturer's website for detailed information or contact a JELD-WEN representative.

* + - * 1. Panel and Profile Design: Design \_\_\_\_\_\_ on all doors.
        2. Panel and Profile Design: Design \_\_\_\_\_\_ on corridor side of door.
        3. Panel and Profile Design: Design \_\_\_\_\_\_ on room side or door.
      1. 1-3/4 20-Minute Fire Rated Doors:
         1. Skins: 7/8" Premium grade primed MDF.

\*\* NOTE TO SPECIFIER \*\* Choose core size below. Delete what is not required.

* + - * 1. Core: 1-1/4 inch (32 mm) MDF raised panel boards.
        2. Core: 11/16 inch (17 mm) MDF flat panel boards.
        3. Stiles, Category A: 1 inch (25 mm) Hardwood stiles with built in intumescent strip on each vertical edge precision routed into and sandwiched between the MDF skins and 1 inch (25 mm) hardwood top rail with built in intumescent strip.
        4. Stiles Category B:: 1 inch (25 mm) fir on each vertical edge precision routed into and sandwiched between the MDF skins.
        5. Adhesive: Moisture resistant Type 1 glue for internal door construction.

\*\* NOTE TO SPECIFIER \*\* See manufacturer's website for detailed information or contact a JELD-WEN representative.

* + - * 1. Panel and Profile Design: Design \_\_\_\_\_\_ on all doors.
        2. Panel and Profile Design: Design \_\_\_\_\_\_ on corridor side of door.
        3. Panel and Profile Design: Design \_\_\_\_\_\_ on room side or door.
      1. 1-3/4 inch 90-Minute Fire Rated Doors:
         1. Skins: 9/16 inch (14 mm) Premium grade primed MDF.
         2. Core: 5/8 inch (16 mm) Palusol Intumescent Flat Panels. Edge Banded MDF vertical stiles.
         3. Adhesive: Moisture resistant Type 1 glue for internal door construction.

\*\* NOTE TO SPECIFIER \*\* See manufacturer's website for detailed information or contact a JELD-WEN representative.

* + - * 1. Panel and Profile Design: Design \_\_\_\_\_\_ on both sides of doors.
        2. Panel and Profile Design: Design \_\_\_\_\_\_ on corridor side of doors.
        3. Panel and Profile Design: Design \_\_\_\_\_\_ on room side or doors.
        4. Adhesive: Moisture resistant Type 1 glue for internal door construction.

\*\* NOTE TO SPECIFIER \*\* Delete ACCESSORlES and options not required.

* 1. ACCESSORIES
     1. Mirrors:
        1. C-Series Doors: Provide 1/8 inch (3 mm) category 2 safety backed mirror panel bonded directly to door. Mirror to sit flush with face of door.
        2. R-Series and L-Series Doors: Provide 1/8 inch (3 mm) category 2 safety backed mirror panel bonded directly to skin of the door. Furnish decorative raised mirror molding to match molding used on other hardboard doors.
        3. Panel and Profile Design: Mirror both sides of doors.
        4. Panel and Profile Design: Mirror on \_\_\_\_\_\_ side of doors.
        5. Panel and Profile Design: Design \_\_\_\_\_\_ on corridor side of doors.
        6. Panel and Profile Design: Design \_\_\_\_\_\_ on room side or doors.
     2. Fixed Lites:
        1. 1/4 inch (6 mm) tempered glass in place of core panel. Furnish special raised glass lite molding to secure glass panels in place.
        2. 1/4 inch (6 mm) tempered white laminated glass in place of core panel. Furnish special raised glass lite molding to secure glass panels in place.
  2. FABRlCATlON
     1. Fabricate in accordance with requirements of WDMA I.S. 1 Quality Standards.
     2. Fabricate fire rated doors in accordance with requirements of ITS - Warnock Hersey or Underwriters' Laboratories, with metal label on each door including UL-10C.
     3. Hardware blocking: Per hardware manufacturers requirements for hardware to be installed without thru-bolts. Comply with ANSI A115-W and ANSI-A117.1.
     4. Factory prime doors for field finish.
     5. Bevel lock and hinge edges of single acting doors 3 degrees or 1/8 inch (3 mm) in 2 inches (51 mm).
     6. Prepare doors to receive hardware. Refer to Section 08 71 53 - Security Door Hardware, NFPA 80, and UL-10C for hardware requirements.
        1. Pre-fit and bevel to net opening size less 1/4 inch (6 mm) in width for single swing doors.
        2. Pre-fit and bevel to net opening size less 3/16 inch (5 mm) in width for paired doors.
        3. Provide 1/4 inch (6 mm) clearance above finished floor, unless otherwise indicated on drawings.
        4. Provide 1/8 inch (3 mm) clearance at top of door.
        5. Slightly ease vertical edges.

1. EXECUTION
   1. EXAMINATION AND PREPARATION
      1. Inspect and prepare openings and substrates using the methods recommended by the manufacturer for achieving best result for the substrates under project conditions.
         1. Inspect door and components prior to installation.
         2. Verify rough opening conditions are within recommended tolerances.
         3. Prepare assembly components for installation in accordance with manufacturer's recommendations.
      2. Verify that frames comply with indicated requirements for type, size, location, and swing characteristics and have been installed with plumb jambs and level heads.
      3. Do not proceed with installation until openings and substrates have been prepared using the methods recommended by the manufacturer and deviations from manufacturer's recommended tolerances are corrected. Commencement of installation constitutes acceptance of conditions.
      4. If preparation is the responsibility of another installer, notify Architect in writing of deviations from manufacturer's recommended installation tolerances and conditions.
   2. INSTALLATION
      1. Install doors in accordance with manufacturer's installation guidelines and recommendations and approved submittals.
   3. FIELD QUALITY CONTROL
      1. Manufacturers' Field Services: Field inspections.
   4. CLEANING AND PROTECTION
      1. Protect installed doors from damage.

\*\* SPECIFIER NOTE \*\* Below are sample schedules that require editing for specific project. When a single type of door is utilized on a project, Specifier may elect to delete the schedule in its entirety. When Schedules are included on the drawings, schedule should be deleted from the specification.)

* 1. SCHEDULES
     1. Door Type A:
        1. Basis of Design: TRIA \_\_\_\_\_\_-Series.
        2. Thickness: (in / mm) \_\_\_\_\_\_.
        3. Fire Rating: \_\_\_\_\_\_.
        4. Door Panel Design: \_\_\_\_\_\_.
        5. Hardware Set: \_\_\_\_\_\_.
        6. Hinges: \_\_\_\_\_\_.
        7. Sill: \_\_\_\_\_\_.

END OF SECTION