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Product Guide Specification

Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) 3-Part Format, including *MasterFormat, SectionFormat,* and *PageFormat,* as described in *The Project Resource Manual—CSI Manual of Practice.*

The section must be carefully reviewed and edited by the Architect to meet the requirements of the project and local building code. Coordinate this section with other specification sections and the Drawings.

Delete all “Specifier Notes” when editing this section.

Section numbers are from *MasterFormat* 1995 Edition, with numbers from *MasterFormat* 2004 Edition in parentheses. Delete version not required.

SECTION 08214 (08 14 23.16)

HIGH-PRESSURE DECORATIVE LAMINATE FACED DOORS

Specifier Notes: This section covers VT Industries Heritage Collection high-pressure decorative laminate faced doors. Consult VT Industries for assistance in editing this section for the specific application. Visit [www.vtindustries.com/doors/contact-us](http://www.vtindustries.com/doors/contact-us) to locate a Territory Sales Manager in your region.

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Interior High-Pressure Decorative Laminate Faced Doors:

Specifier Notes: Edit the following list as required.

1. Flush solid-core high-pressure decorative laminate doors.

2. Flush fire-rated high-pressure decorative laminate doors.

3. Lead-lined doors.

4. Sound-retardant doors.

1.2 RELATED SECTIONS

Specifier Notes: Edit the following list of related sections as required for the project. List other sections with work directly related to this section.

A. Section 06460 (06 48 00) – Wood Frames.

B. Section 08100 (08 12 00) – Metal Frames.

C. Section 08710 (08 71 00) – Door Hardware.

D. Section 08800 (08 80 00) – Glazing.

E. Section 10225 (08 91 26) – Door Louvers.

1.3 REFERENCES

Specifier Notes: List standards referenced in this section, complete with designations and titles. Delete standards not used in this section. This article does not require compliance with standards, but is merely a listing of those used.

A. ANSI A208.1 – Particleboard.

B. ASTM E 90 – Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.

C. ASTM E 413 – Classification for Rating Sound Insulation.

D. AWI/AWMAC/WI Architectural Woodwork Standards, Edition 1, Section 9 – Doors.

E. NFPA 80 – Standard for Fire Doors and Other Opening Protectives.

F. UL 10C – Positive Pressure Fire Tests of Door Assemblies.

G. WDMA Finish System TR-6, Catalyzed Polyurethane.

H. WDMA I.S. 1A-11 – Architectural Wood Flush Doors.

1.4 SUBMITTALS

A. Comply with Section 01330 (01 33 00) – Submittal Procedures.

B. Product Data: Submit manufacturer’s product data, including door construction description and WDMA I.S.1-A and AWS classifications.

C. Schedules: Submit manufacturer’s schedules, including door dimensions, cutouts, species, finish, and hardware. Reference individual door numbers as indicated on the Drawings.

D. Samples: Submit manufacturer’s door finish samples, showing range of color variation.

Specifier Notes: Include the following paragraph when specifying sound-retardant doors.

E. Test Reports: Submit manufacturer’s test results of STC ratings from testing performed by independent testing agency for sound-retardant doors.

F. Manufacturer’s Certification: Submit manufacturer’s certification that doors comply with specified requirements and are suitable for intended application.

Specifier Notes: Include the following paragraph for projects requiring LEED certification.

G. Environmental Documentation: Submit manufacturer’s environmental documentation for the following LEED V3 credits.

1. MR Credit 4: Recycled Content.

2. MR Credit 5: Regional Materials.

3. MR Credit 6: Rapidly Renewable Materials.

4. MR Credit 7: Certified Wood.

5. EQ Credit 4.4: Low-Emitting Materials - Composite Wood and Agrifiber Products.

H. Environmental Documentation: Submit manufacturer’s environmental documentation for the following LEED V4 credits.

1. MR Building Life-Cycle Impact-Reduction

2. MR Building Product Disclosure and Optimization- Environmental Product Declarations – Option 1

3. MR Building Product Disclosure and Optimization – Material Ingredients – Option 1

4. MR Building Product Disclosure and Optimization – Sourcing of Raw Materials – Option 2

 5. MR Low Emitting Materials – Composite Wood Category

6 EQ Low-Emitting Materials - Composite Wood and Agrifiber Products

I. Cleaning Instructions: Submit manufacturer’s cleaning instructions for doors.

J. Warranty: Submit manufacturer’s standard warranty.

1.5 QUALITY ASSURANCE

A. Tolerances for Warp, Telegraphing, Squareness, and Prefitting Dimensions: WDMA I.S.1-A.

B. Identifying Label: Each door shall bear identifying label indicating:

1. Door manufacturer.

2. Order number.

3. Door number.

4. Fire rating, if applicable.

Specifier Notes: Delete the following paragraph if fire-rated doors are not required.

C. Fire-Rated Doors: Labeled by Intertek/Warnock Hersey.

1. Construction Details and Hardware Application: Approved by labeling agency.

Specifier Notes: Edit the following paragraph as required. Delete if positive pressure opening assemblies are not required.

D. Positive Pressure Opening Assemblies: UL 10C.

Specifier Notes: Include the following paragraph for projects requiring LEED or other green building certification.

E. Environmental Responsibility: Provide doors manufactured with the following environmentally responsible components:

Specifier Notes: Include the sentences for each specified component.

1. Core:

a. Agrifiber Core:

1) Rapidly renewable materials.

2) Pre-consumer recycled content.

3) No added formaldehyde.

b. Particleboard Core:

1) Forest Stewardship Council (FSC) certified.

2) Pre-consumer recycled material.

3) No added urea formaldehyde.

 4) CARB NAF / ULEF

c. Structural Composite Lumber (SCL) Core:

1) Forest Stewardship Council (FSC) certified.

2) No added formaldehyde.

2. Composite Crossband:

a. High-Density Fiberboard (HDF):

1) Forest Stewardship Council (FSC) certified.

2) Pre-consumer recycled material.

3) CARB NAF / ULEF

3. Stiles and Rails:

a. Structural Composite Lumber (SCL):

 1) Forest Stewardship Council (FSC) certified.

2) No added formaldehyde.

4. GREENGUARD Certification Program.

a. GREENGUARD Indoor Air Quality Certified.

b. GREENGUARD Children and Schools Certified.

5. SCS Indoor Air Quality Program

 a. Indoor Advantage Gold Certified

1.6 DELIVERY, STORAGE, AND HANDLING

A. Delivery:

1. Deliver doors to site in manufacturer’s original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.

2. Package doors individually in polybags.

B. Storage:

1. Store doors in accordance with manufacturer’s instructions.

2. Store doors in clean, dry area indoors, protected from damage and direct sunlight.

3. Store doors flat on level surface.

4. Do not store doors directly on concrete.

5. Keep doors completely covered. Use covering which allows air circulation and does not permit light to penetrate.

6. Store doors between 50 and 90 degrees F (10 and 32 degrees C) and 30 to 50 percent relative humidity.

C. Handling:

1. Handle doors in accordance with manufacturer’s instructions.

2. Protect doors and finish during handling and installation to prevent damage.

3. Handle doors with clean hands or clean gloves.

4. Lift and carry doors. Do not drag doors across other doors or surfaces.

1.7 ENVIRONMENTAL REQUIREMENTS

A. Do not subject doors to extreme conditions or changes in temperature or relative humidity in accordance with WDMA I.S.1-A.

1.8 WARRANTY

A. Warrant solid core, interior doors for life of installation against warpage, delamination, and defects in materials and workmanship.

B. Defects noted during warranty period shall be corrected at no cost to Owner. Corrective work shall include labor and material for repair, replacement, refinishing, and rehanging as required.

PART 2 PRODUCTS

2.1 MANUFACTURER

1. VT Industries, Inc., 1000 Industrial Park, PO Box 490, Holstein, Iowa 51025. Toll Free (800) 827-1615. Phone (712) 368-4381. Fax (712) 368-4111. [www.vtindustries.com](http://www.vtindustries.com). door\_info@vtindustries.com.
2. VT Industries, Inc. 164 North Lake Street, Neenah, WI 54956. Phone (920 722.6444. [www.vtindustries.com](http://www.vtindustries.com). door\_info@vtindustries.com.

2.2 GENERAL

A. High-Pressure Decorative Laminates: NEMA LD3.

1. Face laminate doors with high-pressure decorative laminates.

2. Nominal Minimum Thickness for Faces and Vertical Edges: 0.048 inch.

3. Laminate Selection: Standard products of Formica, Nevamar, Pionite, Wilsonart, or equal.

4. Finish: Manufacturer’s standard.

5. Grade: General purpose, horizontal grade.

Specifier Notes: Delete vision panels if not required.

B. Vision Panels:

1. VT Industries steel vision frame.

2. Style: No. 110.

3. Finish: Beige finish.

C. Glazing: As specified in Section 08800 (08 80 00).

D. Door Louvers: As specified in Section 10225 (08 91 26).

2.3 FLUSH SOLID-CORE HIGH-PRESSURE DECORATIVE LAMINATE DOORS

A. Flush Solid-Core High-Pressure Decorative Laminate Doors: Heritage Collection.

Specifier Notes: Specify the Heritage Collection door model. Consult VT Industries for assistance in choosing the door model for the specific application.

1. Model:

a. [PC-HPDL-3, PC-20-HPDL-3, PC-20PP-HPDL-3, particleboard core, non-rated or 20-minute rated (3-ply), positive pressure.]

b. [PC-20PP-HPDL-3, particleboard core, 20-minute rated, positive pressure.]

c. [PC-HPDL-5, PC-20-HPLD-5, PC-20PP-HPDL-5, particleboard core, non-rated or 20-minute rated, positive pressure.]

d. [PC-20PP-HPDL-5, particleboard core, 20-minute rated, positive pressure.]

e. [SCLC-HPDL-5, SCLC-20-HPDL-5, SCLC-20PP-HPDL-5, structural composite lumber (SCL), non-rated or 20-minute rated, positive pressure.]

f. [SCLC-20PP-HPDL-5, structural composite lumber (SCL), 20-minute rated, positive pressure.]

g. [WSPC-HPDL-5, WSPC-20-HPDL-5, WSPC-20PP-HPDL-5, agrifiber core, non-rated or 20-minute rated, positive pressure.]

h. [WSPC-20PP-HPDL-5, agrifiber core, 20-minute rated, positive pressure.]

2. Compliance: WDMA I.S.1-A.

a. Aesthetic Grade: Premium.

b. Duty Level: Extra heavy duty.

c. Type: PC-HPDL-5 or PC-HPDL-3.

3. Seven-Ply and Non-Bonded Core Construction: Not acceptable.

4. Door Thickness: 1-3/4 inches.

5. STC Rating:

a. Model PC-5: [STC 30] [STC 31] [STC 34]

b. Model WSPC-5: [STC 30]

c. Model SCLC-5: [STC 33] [STC 34]

d. Model SLC-5: [STC 32]

6. Stiles:

a. Structural composite lumber (SCL).

b. Edged with high-pressure decorative laminate before face laminates.

Specifier Notes: Edit or delete the following sentence as required. Painting or staining of stile edges is optional.

d. [Paint] [Stain] stile edges.

7. Rails:

a. Structural composite lumber (SCL).

8. Core:

Specifier Notes: Specify the core material.

a. Material: [Particleboard] [Agrifiber] [Structural composite lumber (SCL)]

b. Particleboard and Agrifiber Compliance: ANSI A208.1, Grade 1-LD-2.

Specifier Notes: Composite crossband is optional. Delete if not required.

e. Composite Crossband:

1) Apply to core in hot press using Type I, exterior, water-resistant adhesive before application of hardwood edges.

2) Exposed Crossbanding: Not allowed along stile edges.

9. Door Assembly:

a. Stiles and rails bonded to core.

b. Monolithically sand core assembly to ensure minimum telegraphing of core components.

10. Laminates:

a. Apply to core in hot press using Type I, exterior, water-resistant adhesive.

Specifier Notes: Five-ply construction is standard. Three-ply construction is available for particleboard.

b. [5-ply] [3-ply] construction.

11. Positive Pressure:

a. Where UL 10C standards for positive pressure apply, doors shall be constructed in accordance with Category A guidelines as published by Intertek/Warnock Hersey.

b. Smoke Gasketing: Apply smoke gasketing around frame perimeter and between door and pairs to meet Smoke (S) rating.

c. Intertek/Warnock Hersey Category A Guidelines: Edge sealing systems not allowed on frames.

2.4 FLUSH FIRE-RATED HIGH-PRESSURE DECORATIVE LAMINATE DOORS

A. Flush Fire-Rated High-Pressure Decorative Laminate Doors: Heritage Collection.

Specifier Notes: Specify the Heritage Collection door model. Consult VT Industries for assistance in choosing the door model for the specific application.

1. Model:

a. [Fire composite FD-45-HPDL-5, 45-minute rated.]

b. [Fire composite FD-45PP-HPDL-5, 45-minute rated, positive pressure.]

c. [Fire composite FD-60-HPDL-5 and FD-90-HPDL-5, 60- and 90-minute rated.]

d. [Fire composite FD-60PP-HPDL-5 and FD-90PP-HPDL-5, 60- and 90-minute rated, positive pressure.]

e. [9P09H, agrifiber core, FD-45PP-HPDL-5 and FD-60PP-HPDL-60, 45- and 60-minute rated, positive pressure.]

f. [Fire composite FD-45PP-HPDL-5 and FD-60PP-HPDL-5, 45-minute rated, positive pressure.]

2. Compliance: WDMA I.S.1-A.

a. Quality Grade: Premium.

b. Duty Level: Extra heavy duty.

c. Type: FD-HPDL-5.

3. Door Thickness: 1-3/4 inches.

4. STC Rating:

a. Fire Composite: [STC 36] [STC 37].

b. Agrifiber Core: STC 30.

c. Structural Composite Lumber Core: [STC 33] [STC 34]

Specifier Notes: Specify required stiles.

5. Stiles: [Structural composite lumber (SCL) with high-pressure decorative laminate edges, 45-minute rated] [Noncombustible material, 60- and 90-minute rated].

Specifier Notes: Specify required rails.

6. Rails:

a. [Structural composite lumber (SCL), 45-minute rated] [Fire-retardant material, 60- and 90-minute rated].

b. Width: Manufacturer’s standard width before prefitting.

7. Core:

a. Fire-Retardant Mineral Core: Does not contain asbestos or added urea formaldehyde.

b. Agrifiber Core Door: ANSI A208.1, Grade 1-LD-2.

8. Composite Crossbands:

a. Apply to core in hot press using Type I, exterior, water-resistant adhesive before application of hardwood edges.

b. Exposed Crossbanding: Not allowed along stile edges.

9. Positive Pressure:

a. Where UL 10C standards for positive pressure apply, doors shall be constructed in accordance with Category A guidelines as published by Intertek/Warnock Hersey.

b. Smoke Gasketing: Apply smoke gasketing around frame perimeter and between door and pairs to meet Smoke (S) rating.

c. Intertek/Warnock Hersey Category B Guidelines: Edge sealing systems not allowed on frames.

2.5 LEAD-LINED DOORS

A. Lead-Lined Doors: Heritage Collection.

Specifier Notes: Specify the Heritage Collection door model. Consult VT Industries for assistance in choosing the door model for the specific application.

1. Model:

a. [particleboard core, LL-HPDL-7, non-rated.]

b. [particleboard core, LL-20PP-HPDL-7 and LL-45PP-HPDL-7, 20- and 45-minute rated, positive pressure.]

2. Compliance: WDMA I.S.1-A.

a. Quality Grade: Premium.

b. Duty Level: Extra heavy duty.

3. Non-Rated and 20-Minute-Rated Fire Doors With Lead Sheet on Both Sides of Core:

a. Door Thickness: 1-3/4 inches.

b. Maximum Combined Lead Thickness: 1/4 inch.

4. Core:

a. [Particleboard, non- and 20-minute rated] [Structural Composite Lumber (SCL), 45-minute rated].

b. Particleboard Grade: ANSI A208.1, Grade 1-LD-2, for lead-each-side construction.

5. Composite Crossbands:

a. Apply to core before application of high-pressure decorative laminate edges.

b. Exposed Crossbanding: Not allowed along stile edges.

6. Stiles:

a. 1-3/8 inches wide, before prefitting.

b. Structural composite lumber (SCL).

7. Rails:

a. Structural composite lumber (SCL).

b. Width: 3-3/8 inches, before prefitting for lead-each-side construction.

8. Lead-Lined Steel Lite Frames on 20-Minute Doors:

a. Maximum Lite Opening Size: 256 square inches.

b. Maximum Width and Height: 16 inches.

9. Lead Lining:

Specifier Notes: Edit the following sentence if a shielding study is not provided by the Owner.

a. Thickness and Quality: Conform to shielding study provided by Owner.

b. Maintain integrity of lead lining.

2.6 SOUND-RETARDANT DOORS

A. Sound-Retardant Doors: Heritage Collection.

Specifier Notes: Specify the Heritage Collection door model. Consult VT Industries for assistance in choosing the door model for the specific application.

1. Model:

a. [composite sound core, SR-HPDL-5, stained stiles.]

b. [composite sound core, SR-20PP-HPDL-5, painted stiles, positive pressure.]

c. [sound attenuation core, SR-HPDL-5, stained stiles.]

d. [sound attenuation core, SR-20PP-HPDL-5, painted stiles, positive pressure.]

2. Compliance: WDMA I.S.1-A.

a. Quality Grade: Premium.

3. Testing Methods: ASTM E 90 and E 413.

4. Door Thickness: 1-3/4 inches.

Specifier Notes: Specify STC rating.

5. STC Rating: [35] [36] [39] [40] [41] [42] [43] [44] [45] [46] [47] [48] [49].

6. Core: Sound absorbent material encapsulated by stiles, rails, crossbands, and face laminates.

7. Perimeter Gasketing and Drop Seals: To achieve STC ratings.

8. Frames: Fully Filled, Steel

9. High-Pressure Decorative Laminate Faces: Identical with non-rated and fire-rated doors.

10. Vertical Stile Edges: Painted or matched.

Specifier Notes: Delete the acoustical lite kit if a lite is not required in the door. Using the Model 105 acoustical lite kit, STC 39 doors can maintain the full acoustical rating. The maximum lite size to meet these requirements is 216 square inches or a maximum of 6 inches wide by 36 inches long.

11. Acoustical Lite Kit: Model 105.

2.7 FABRICATION

A. Stile Edges: Apply laminate edges before application of face laminates.

B. Prefit Doors:

1. Prefit and bevel doors at factory to fit openings.

2. Prefit Tolerances: WDMA I.S.1-A.

C. Factory-machine doors for mortised hardware, including pilot holes for hinge screws and lock fronts required.

D. Top and Bottom Rails: Factory sealed.

PART 3 EXECUTION

3.1 EXAMINATION

A. Examine locations to receive doors. Notify Architect of conditions that would adversely affect installation or subsequent use. Do not begin installation until unacceptable conditions are corrected.

B. Ensure frames are solidly anchored, allowing no deflection when doors are installed.

C. Ensure frames are plumb, level, square, and within tolerance.

3.2 PREPARATION

A. Allow doors to become acclimated to building temperature and relative humidity for a minimum of 24 hours before installation.

3.3 INSTALLATION

A. Install doors in accordance with manufacturer’s instructions.

Specifier Notes: Edit the following sentence as required.

B. Install doors at locations indicated on the [Door Schedule] [Drawings].

C. Install doors plumb, level, and square.

D. Install door hardware as specified in Section 08710 (08 71 00).

3.4 ADJUSTING

A. Adjust doors to swing freely, without binding in frame.

B. Adjust hardware to operate properly.

C. Repair minor damages to finish in accordance with manufacturer’s instructions and as approved by Architect.

D. Remove and replace damaged doors that cannot be successfully repaired, as determined by Architect.

3.5 CLEANING

A. Clean doors promptly after installation in accordance with manufacturer’s instructions.

B. Do not use harsh cleaning materials or methods that could damage finish.

3.6 PROTECTION

A. Protect installed doors from damage during construction.

END OF SECTION

R11/12