

Acrovyn® Doors

Suggested Specifications | Section 08210 (08 14 23)
Flush Curved Interior Door (No-Fire Rated)

PART 1 – GENERAL

1.1 SCOPE

- A. All labor, material, equipment, and related services necessary to furnish and install Acrovyn® Door Systems doors as shown on the drawings or specified herein.

1.2 RELATED SECTIONS

- A. Related Sections include the following:
 1. Division 6 Section 06100 (06 10 00) Rough Carpentry
 2. Division 6 Section 06400 (06 40 00) Architectural Woodwork
 3. Division 8 Section 08110 (08 11 13) Metal Doors and Frames
 4. Division 8 Section 08710 (08 71 00) Finish Hardware

1.3 REFERENCE STANDARDS

- A. ASTM G-21 and ASTM G-22 (Bacterial and Fungal resistance): Provide doors that do not support fungal and bacterial growth when tested in accordance with applicable provisions of ASTM G-21 and ASTM G-22.
- B. ASTM D-543 (Chemical and Stain Resistance): Provide doors that show chemical and stain resistance when tested in accordance with ASTM D-543.

1.4 SUBMITTALS

- A. Submit in accordance with Section 01300 (01 30 00)
- B. Product Data: For each type of door, submit manufacturer's data sheets including details of edge construction.
- C. Shop Drawings: Submit complete schedule indicating location, size, hardware sets, swing of each door; elevation of each type of door and construction details not covered in product data and other pertinent information.
- D. Samples for verification of edge wrapping and edge replaceability. Banded edges will not be approved.
- E. Manufacturer's limited lifetime warranty.

1.5 QUALITY ASSURANCE

- A. Source Limitations: Obtain Acrovyn Door Systems doors through one source from a single manufacturer.

1.6 TRANSPORT, STORAGE, HANDLING AND SITE CONDITIONS

- A. Transport, store, protect and handle products under guidelines of WDMA and manufacturer's care and handling instructions.
- B. Mark each door with opening number used on shop drawings.
- C. Accept doors on site in manufacturer's standard packaging. Inspect for damage.
- D. Do not store doors in damp or wet areas. HVAC systems should be operating and balanced prior to arrival of doors. Acceptable humidity shall be no less than 25% or greater than 55%.

- E. Do not subject doors to extreme conditions or changes in heat, dryness, or humidity in accordance with the latest edition of WDMA I.S.1A-04.
- F. Protect doors from exposure to natural and artificial light after delivery.
- G. Doors should be lifted and carried when being moved, not dragged across one another.

1.7 PROJECT CONDITIONS

- A. Environmental Limitations: Do not deliver store, or install doors until building is enclosed, wet work is complete, and HVAC system is operating and will maintain temperature and relative humidity at occupancy levels during the remainder of the construction period.
- B. HVAC systems should be operating and balanced prior to arrival of doors. Acceptable humidity shall be no less than 25% or greater than 55%. Note: Any claim for warp, bow, twist, or telegraphing may be denied if required humidity requirements are not maintained.

1.8 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace doors that are deemed defective in materials or workmanship. Conditions are subject to the terms set forth in the manufacturer's warranty.
 - 1. "Edge of a Lifetime" Warranty: If an Acrovyn edge cover is damaged, Construction Specialties shall supply a replacement Acrovyn edge cover at no charge to the Owner. This special warranty begins 1 month after the construction/renovation project is complete. Labor not included. Stainless Steel edges not included. See website for more details @ c-sgroup.com

PART 2 - PRODUCTS

2.1 2.01 Manufacturer

A. Basis of Design - Construction Specialties, Inc., 3 Werner Way, Lebanon, NJ 08833 USA 800-233-8493.

email: cet@c-sgroup.com

B. Drawings and specifications are based on manufacturer's literature from Construction Specialties, Inc. No substitutions.

2.2 MATERIALS

A. Door Construction

- 1. Non-Fire Rated Doors following:
 - a. Thickness: 1 3/4" (44.45mm)
 - b. Core: Interior stiles and rails bonded.
 - A.1.b.1. Wood Composite Core, no added urea formaldehyde
 - c. Replaceable door stiles: Shall be field replaceable if ever damaged by impact.
 - d. Profile of stiles shall be a minimum thickness of 3/4" for maximum durability and ease of replacement.
 - e. Replaceable door edge covers: Shall be field replaceable if ever damaged by impact. Shall be exclusive of fasteners to improve appearance.
 - f. Profile of edge covers shall be a minimum height/thickness of 3/4" for maximum durability and ease of replacement.

B. Door Faces:

- 1. Door faces to be impact resistant Acrovyn 4000 with standard Suede finish, Acrovyn Woodgrains & Brushed Metals: _____ [Acrovyn color # and name]

[or]

- a. “Acrovyn by Design”. Imbedded image (not surface printed) to provide maximum durability and impact resistance. PVC-free. For a specific image/design refer to the Finish Schedule.
2. Face material base color must be integral throughout to eliminate discoloration caused by scratching.
3. Face Veneer Wear Index - Abrasion Resistance Testing - ASTM D4060-90: 28,000 cycles to prove out resistant to scuffing and scratching.
4. Face Veneer Impact Resistance - ASTM D-4226: 86 in/lb. (99.08kg/cm³) to confirm impact resistance of face finish.

C. Door Edges:

1. Finish [Specify Edge finish]
 - a. Edges of door to be engineered PVC-free Acrovyn: _____ [Insert finish # and finish name] [or]
2. Edges are to fully wrap the door vertical stiles to eliminate banded edges thus improving durability and impact resistance.
3. Door edges shall be exclusive of fasteners to improve appearance.
4. Profile of edges shall be a minimum height/thickness of $\frac{3}{4}$ " for maximum durability and ease of replacement.
5. Edges must be flush with face of door thus eliminating raised edges that could be torn off.
6. Edges to include $\frac{1}{4}$ " (6.35mm) radius edges to improve impact deflection. Square or banded edges should not be permitted.
7. Edges are to be extruded (not formed) to ensure correct appearance and proper door fit.
8. Edges to be provided as part of the construction of the door from single source manufacturer.

2.3 FABRICATION, GENERAL

- A. Contractor or door distributor to verify dimensions and alignment before factory machining.

PART 3 - INSTALLATION**3.1 EXAMINATION**

- A. Inspect all doors prior to hanging. Repair noticeable marks or defects that may have occurred from improper storage or handling. Field repairs and touchups are the responsibility of the installing contractor upon completion of the initial installation. Field touchup shall include repair of job inflicted mars and final cleaning of finished doors.

3.2 INSTALLATION

- A. Handle doors in accordance with recommendations of WDMA I.S.1A-04 “Care and Installation at Job Site.”
- B. Condition doors to average temperature and humidity in area of installation for not less than 48 hours prior to installation.

- C. Install doors to comply with manufacturer’s written instructions, referenced quality standard and as indicated.
- D. Set doors plumb, level, square and true.
- E. Drill pilot holes for screws and bolts using templates provided by hardware manufacturer.
- F. Exercise caution when drilling pilot holes so that pilot holes are not over drilled, and screws are not over torqued. Follow manufacturer’s installation instructions.
- G. Hardware installation: See Division 8 Section “Door Hardware”.
- H. Clean prefinished doors with a rag in concert with water or household cleaners such as Simple Green, Formula 409[□], or equivalent. Following use of the cleaner, the cleaned surface should be “rinse wiped” with clean water and wiped dry to remove any remaining residue.

3.3 ADJUSTING

- A. Operating: Re-hang or replace doors that do not operate freely.
- B. Replace doors that are damaged or do not comply with requirements. Doors may be repaired or refinished if work complies with requirements and shows no evidence of repair or refinishing.

END OF SECTION