

**ANC-45 ACCORDION DOOR
ACCORDION FOLDING PARTITIONS, WALLS OR DOORS**

GENERAL NOTES TO SPECIFIER:

This specification section has been prepared to assist design professionals in the preparation of project or office master specifications. It follows guidelines established by the construction specifications institute, and therefore may be used with most master specification systems with minor editing.

Edit carefully to suit project requirements. Modify as necessary and delete items that are not applicable. Verify that referenced section numbers and titles are correct.

This section assumes the project manual will contain complete division 01 documents including sections 01 33 00 submittal procedures, 01 62 00 product options, 01 25 13 product substitution procedures, 01 66 00 product storage and handling requirements, 01 77 00 closeout procedures, and 01 78 00 closeout submittals. If the project manual does not contain these sections, additional information should be included under the appropriate articles.

This is an open proprietary specification allowing users the option of approving other manufacturers that comply with the criteria specified herein.

**** NOTES TO SPECIFIER **** are highlighted in red text and should be deleted from final copy.

Optional items requiring selection by the specifier are enclosed within brackets, e.g.: [35] [40] [45]. In cases where one of the optional items is a standard feature of the closure model, it is listed in the first position. Make appropriate selection and delete others.

Items requiring additional information are underlined, e.g.: .

PART 1 GENERAL

1.1 SUMMARY

- A. **Section Includes:** manually operated, side folding accordion-type products for partition, wall or door applications
- B. **Related Sections:**
 - 1. **06 10 00 Rough Carpentry:** All headers, support structures, surrounding insulation, jambs, field painting, blocking, wood trim and pocket doors when not provided by ANC shall be furnished and installed by others
 - 2. **08 70 00 Hardware:** Masterkeyed cylinders by others

1.2 SYSTEM DESCRIPTION

- A. **Operation:** All units shall be top supported without the use of any floor tracks or single point lock sockets.
- B. **Design:** Accordion folding product assembly shall be repairable at installation site without removal requirement for repair at factory
- C. **Acoustic Performance:** Provide accordion-type folding products that have been tested by a qualified independent agency for the following acoustic properties as per the following test method:
 - 1. **Sound Transmission Requirements:** Accordion-type side folding products tested for laboratory sound transmission loss performance according to ASTM E90, determined by ASTM E413 and rated for an STC as follows:
 - a. **Sound Transmission Class (STC):** 45
- D. **Fire Resistance:** The accordion folding door material and finish shall achieve a Flame Spread Index of not more than 110 and a Smoke Developed Index of not more than 535 when tested in accordance with ASTM E84.

1.3 SUBMITTALS

- A. Reference Section 01 33 00 Submittal Procedures; submit the following items:
 - 1. **Product Data**
 - 2. **Shop Drawings:** Show interface with adjacent work. Indicate required stacking depth, pocket width (if applicable), and height from finished floor to bottom side of header. Show installation details and layout.

3. **Closeout Submittals:**
 - a. Operation and Maintenance Manual
 - b. Certificate stating that installed materials comply with this specification

1.4 QUALITY ASSURANCE

- A. **Qualifications:**
 1. **Manufacturer Qualifications:** ISO 9001:2008 registered and a minimum of five years experience in producing doors of the type specified
 2. **Installer Qualifications:** Manufacturer's approval
 3. **Surface Burning Characteristics:** Provide operable wall with the following surface burning characteristics as determined by testing identical products per ASTM E84 by an authorized independent testing agency that is acceptable to the authority having jurisdiction:
 - a. **Flame Spread:** 40
 - b. **Smoke Developed:** 535

1.5 DELIVERY STORAGE AND HANDLING

- A. Reference Section 01 66 00 Product Storage and Handling Requirements
- B. Deliver to the job site in manufacturer's original, unopened package(s)

1.6 WARRANTY

- A. **Standard Warranty:** Two years from date of shipment against defects in material and workmanship
- B. **Maintenance:** Submit for owner's consideration and acceptance of a maintenance service agreement for installed products

PART 2 PRODUCTS

2.1 MANUFACTURER

- A. **Manufacturer:**
 1. **ANC:** 2731 Vista Parkway D-8 WPB, FL 33411.
Telephone: (561) 964-9360 ISO 9001:2008 Registered.
 - a. **Model:** ANC-45
 2. **Cookson**

Substitutions: Not permitted

2.2 MATERIALS

- A. **Accordion Folding Door Construction**

Construction shall consist of a double accordion-type side folding wall of panels suspended from a single overhead track. Fully assembled and extended panel wall hang weight shall be approximately 4.5 pounds per square foot

 1. **Wall Panels:** Continuous length, 4 1/2" wide formed of vinyl clad 24 gauge steel, corrugated and reinforced with double rolled end beads. As a minimum, there shall be 2.6 panels per lineal foot for all partitions. Vinyl shall be permanently bonded to the outside face of the steel panels using a heat and pressure process prior to the panels being roll formed. A flexible urethane primer followed by a medium gloss, Platinum Gray color baked-on polyester coating shall be applied to the interior side of the panel.
 2. **Sound Blocker Lining:** Interior surfaces of panel walls shall be continuously covered in pairs of 2 panels with 10.5" acoustical barrier strips permanently attached to panels with tear resistant fasteners.
 3. **Hinges:** Continuous length, formed extruded vinyl members that interconnect full height with the panel sections and lead posts to form the desired width wall panels. Hinge clips are zinc plated 26 gauge steel, with a stamping process used to create flange.
 4. **Upright Lead & Striker Posts:** Heavy duty formed extruded aluminum members located at leading and end sections of the wall panels. Lead post shall be equipped with grip-type

operating handles and a slide latch mechanism to secure the unit when closed. Bottom of post should be chamfered. [Single slide units to utilize a striker post to seal fit with the lead post and secure the hook bolt latch.] [Bi-parting units to utilize a combination lead/striker post that mates to, and secures, the lead post.] Latch design, operation and location shall be ADA compliant. [For units greater than 12' tall, manufacturer to supply a concealed, internally mounted diagonal 1 ¼ inch tube stabilizer that is track supported and connected to the lead post for reinforced vertical alignment during latching and operation (requires a 14" wide header). Once stabilizer bar is adjusted to Manufacturer's recommendations, provide bolt through assembly to ensure no movement.]

5. **Handles:** Cast aluminum with steel interior. Two aviation grade through bolts. Bolts are accessible without disassembling lead post or stabilizing bar. Fasteners should be countersunk.
6. **Hanger Pin:** Forged solid 1018 steel pins with a groove used with a removable nut and Teflon washer on all partitions; attach to the slat with a minimum of four rivets. One hanger pin per panel.
7. **Tie Backs:** Attached to secure partition in open position. Install thick nylon straps to attach on one side of center of partition. Tie backs should not require constant re-adjustment.
8. **Safety Sweep Clip:** Partition safety clip for accordion folding partition panels and lead post bottom seals. Rivet to panel with black multi-grip rivet.

B. Suspension System

1. **Track:** Interconnected double rail heavy duty extruded aluminum track section designed to attach to overhead structural support system in a [recessed] [surface mounted] configuration. Minimum 0.65 inch thickness. 2 ½ inch #10 sheet metal screws applied every 12 inches for non-stack sections, and every 6 inches for stacked sections.
2. **Soffit trims:** to be attached with screws to header or track system. 6 inch mounting piece applied to the header every 24 inches with 3 screws.
3. **Rollers:** Every panel shall be supported and suspended by 1 1/16 inch rollers with double steel race open ball bearings and nylon tires
4. **Trolley System:**
Each lead post shall be connected to, and suspended by, a trolley system fitted with [four sets of double nylon wheel ball bearing rollers for straight track][two sets of double nylon wheel ball bearing rollers for curved track] on all partitions
 - a. **Partitions up to 12 ft:** [Aluminum] [Steel]
 - a. **Partitions 12 ft and higher:** Steel

- C. **Perimeter Seals:** Continuous extruded vinyl sweep strips shall be attached to the top and bottom of the wall panels to close off gaps at the header and floor. Leading edges of the lead and striker posts shall be provided with interlocking extruded vinyl seals.
- a. **Top:** Punched with a 6 hole pattern to match slat hole pattern. Rivets with backer washers applied for the 3 holes not covered with the hanger pin.
 - b. **Bottom:** Approx 4" overlap at slat section joints riveted together with 1/8" steel wide flange black rivets and backer washers.
 - c. **Sweep Mount Clips:** The bottom sweep shall be held in place with a fiberglass reinforced plastic retaining clip with contoured edges that cover the steel hinge clips and panel edges. Rivet to panels with black multi-grip rivet.

- D. **Stacking Depth:** Calculation for Stack Depth: Total partition opening 1 ¾ inch max per lineal foot. Add 6 inches for the lead post, 6 inches for an intermediate or center post if required. Jam thickness less ¾ inch. For bi-parting partitions: Use single partition for each half of opening for stack depth.

E. Finishes

1. **Wall Panels:**
 - a. **Interior Surface:** [Corrosion protected] [coil steel coated]
 - b. **Exterior Surface:** Customer selected, tear resistant decorative vinyl applied to the outside face of the curtain. Color and pattern [as selected from manufacturer's stock finishes, minimum of 12 finish choices.] [to match custom finish as provided by the customer.] All surface treatments as applied to the

metal panel substrates shall meet Surface Burning Characteristics per ASTM E84 as described in Section 1.4 B.

2. **Hinges:** Manufacturer selected color to compliment the customer selected wall panel finish
3. **Lead Posts:** Supplied with a baked-on powder coat finish in a manufacturer selected color to compliment the customer selected wall panel finish
4. **Track:** [Standard white baked-on powder coat finish] [Mill finish aluminum]
5. **Soffit trims:** Rigid PVC equal to Georgia gulf 7765 white.
6. **Safety Sweep Clip:** Black
7. **Perimeter Seals:** Flat black

2.3 ACCESSORIES

**** NOTE TO SPECIFIER **** The accessories listed below are available options. Factory supplied pocket doors are an available option to a maximum of 12' high. Pocket doors stop at underside of track and look better aesthetically when the track is recessed in a ceiling or soffit. Delete items that are not desired.

- A. **Cylinder Locks:** Cylinder locking at lead posts operable from public side with key, secured side with [key on both sides] [thumb turn and key combination]. 1" mortise cylinder, non-removable core
- B. **Pocket Door(s):**
 1. **Door and Frame**
 - a. **Material:** A36 HR steel
 - b. **Thickness:** USS 12-gauge
 - c. **Finish:** Zirconium treatment followed by a baked-on powder coat finish in [standard white] [color as selected from manufacturer's standard color range] [custom color as selected by Architect].
 2. **Hinges:** 3" non-mortise type
 3. **Lock:** 1" security mortise cylinder
- C. **Header Trim:** For use with exposed track. Provide rigid extruded vinyl aesthetic trim members in a white finish on [one] [both] sides of the track assembly.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine header substrates upon which accordion folding product will be installed and verify conditions are in accordance with approved shop drawings. Openings shall be prepared to the dimensions specified and be plumb and level. Header shall be leveled with the finished floor to within +/- 1/4" tolerance over the entire length of the opening.
- B. Upon inspection of prepared opening, coordinate immediately with responsible entity to perform corrective work on unsatisfactory substrates and header, floor or sill levels
- C. Commencement of work by installer is considered acceptance of substrate

3.2 INSTALLATION

- A. Install accordion folding products in accordance with manufacturer's printed instructions
- B. Upon completion of the installation, the General Contractor shall protect the accordion folding units from damage and replace or repair subsequent damage so that the units are acceptable to the architect, at no additional cost to the owner

3.3 ADJUSTING

- A. Following completion of installation, including related work by others, test and adjust accordion folding products for ease of operation

3.4 CLEANING

- A. Clean surfaces soiled by work as recommended by manufacturer
- B. Remove surplus materials and debris from the site

3.5 DEMONSTRATION

- A. Demonstrate proper operation to Owner's Representative

- B. Instruct Owner's Representative in maintenance procedures

END OF SECTION