SECTION 10 2226

ACCORDION FOLDING PARTITIONS

PART 1 - GENERAL

1.1 SUMMARY

A. Includes But Not Limited To:
   1. Furnish and install folding partitions as described in Contract Documents.

B. Related Sections:
   1. Section 06 1100: Headers and framing required to receive material furnished and installed by Folding Partition Manufacturer.
   2. Section 06 4512: Folding partition hardwood jambs and trim.
   3. Section 09 9324: Finishing folding partition hardwood jambs and trim.

1.2 REFERENCES

A. American Society For Testing And Materials:
   2. ASTM E 413-04, 'Classification for Rating Sound Insulation.'

1.3 SYSTEM DESCRIPTION

A. Design Requirements: Total folding partition assembly shall be repairable at installation location without removal to repair shop or factory.

B. Performance Requirements: Completed acoustic folding partition assembly shall have NIC rating of 30 in Chapel and Cultural Center and 24 in other areas when tested in accordance with ASTM E 336 and calculated in accordance with ASTM E 413 and when installed on header configuration and surrounding construction shown on Contract Documents.

1.4 SUBMITTALS

A. Product Data:
   1. Manufacturer's literature or cut sheet.
   2. Operating, repairing, and maintaining instructions.
   3. Color and style selections.

B. Shop Drawings: Show attachment to framing and header configuration detailed on Drawings.

1.5 QUALITY ASSURANCE

A. Qualifications: Installation shall be performed by Manufacturer certified and approved personnel.

B. Certification: Provide letter certifying that installation is complete and ready for acoustic testing.
1.6 SEQUENCING

A. Coordinate completion of folding partition installation with sound system testing so acoustic testing of folding partitions may be performed at same time.

1.7 WARRANTY

A. Manufacturer's 3-year minimum written warranty covering installation and complete folding partition assembly.
   1. Warranty becomes effective on date of substantial completion. Date shall be entered by Manufacturer on warranty certificate.
   2. Warranty covers major maintenance during warranty period, defined as defects in folding partition or its operation that will not allow it to function for its intended use. Provide requested maintenance service within 10 days of receiving request and at no additional cost to Owner.

1.8 MAINTENANCE

A. Provide maintenance and repair kit consisting of maintenance and repair manuals and video, repair parts, and tools.
   1. Parts and tools supplied will be those illustrated or demonstrated in the manuals and video.
   2. Amount of parts supplied shall be sufficient to perform maintenance and repair procedures for normal maintenance for five years.
   3. Deliver kit to Architect for Owner's Field Representative at Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURED UNITS

A. Acoustic Partitions:
   1. Rollers shall be one inch 25 mm diameter minimum with double steel race open ball bearings and nylon tires.
   2. Track shall be 0.062 inch 1.6 mm thick minimum extruded aluminum.
   3. Hinges shall be continuous extruded vinyl.
   4. Grip type latch with keyed locks as indicated for location. Provide pull-in latches where necessary.
   5. Panels shall be 24 ga 0.64 mm steel panels, vinyl clad exposed side and painted reverse side.
   6. Provide stabilizer bar and horizontally adjustable lead posts on acoustic partitions over 14 feet 4 200 mm high.
   7. Panel assembly shall have inner surface continuously covered with fibrous insulation permanently attached to panels.
   8. Acoustic Seals:
   9. Continuous extruded vinyl sweep strips at top and bottom of partition.
   10. Continuous extruded vinyl seals at lead posts and jamb strike.
   11. Weight: 5 lbs per sq ft of partition surface area maximum.
   12. Height Adjustment: Suspension system shall be fully adjustable for one inch 25 mm minimum up or down from original installed position.
   13. Stacking Depth: 1-3/4 inch per lineal foot of full extended partition maximum, not including jamb and lead post.
   14. Category Four Approved Products:
      a. Sound-Seal 50 by Sealy Corporation
      b. Durasound by Won-Door.

B. Sight Barrier Partitions
   1. Rollers shall be one inch 25 mm diameter minimum with double steel race open ball bearings and nylon tires.
2. Track shall be 0.062 inch 1.6 mm thick minimum extruded aluminum.
3. Hinges shall be continuous extruded vinyl.
4. Grip type latch with keyed locks as indicated for location. Provide pull-in latches where necessary.
5. Panels shall be 24 ga 0.64 mm thick steel panels, vinyl clad both sides.
6. Category Four Approved Products:
   a. Vista-Seal by Sealy Corp.
   b. DuraFlex by Won-Door.

C. Color And Pattern Quality Standard:
   1. Sealy: White 885
   2. WonDoor: White ML-885.
   3. Sealy: Sandalwood 163
   4. WonDoor: Sandalwood PN-163.
   5. Sweeps: <Insert Sweep Model No.> by <Insert Manufacturer>.

D. Category Four Approved Manufacturers. See Section 01 6000 for definitions of Categories.
   1. Sealy Corp, Laketown, UT  www.sealycorp.com
   2. Won-Door, Salt Lake City, UT  www.wondoor.com

2.2 ACCESSORIES

A. Manufacturer's standard partition tie-backs.

B. Flexible Acoustic Barrier Over Header:
   1. Type Two Acceptable Manufacturers:
      c. Equal as approved by Architect before use. See Section 01 6000.

2.3 FABRICATION

A. Fabricate partitions according to actual field measurements of fully prepared, finished openings. Partition Manufacturer is responsible for field measurements and their accuracy.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Install so track is aligned, level, etc, to eliminate catching or binding of rollers.

B. Install tie-backs at all acoustic partitions. Adjust as necessary to keep partition in stacked position.

C. Flexible Acoustic Barrier:
   1. Attach flexible acoustic barrier to Contractor installed plywood header by nailing through factory-applied tackstrip.
   2. Drape material 2 inches 50 mm minimum onto Folding Partition Manufacturer supplied plywood header as detailed.
   3. Overlap end joints 4 inches 100 mm minimum and seal with duct tape.

3.2 FIELD QUALITY CONTROL

A. Site Tests:
1. Installer shall test completed assembly using own sound source and instruments. Make corrections required to meet specified NIC rating and retest. When completed, submit to Architect test results and notification that partition is ready for testing by Sound / Acoustic Consultant.

2. Architect's Sound / Acoustic Consultant will test finished, installed accordion folding partition assemblies to determine NIC ratings.
   a. Testing will occur at time of sound system balancing.
   b. If partitions do not meet specified NIC requirements or if partitions are not ready for testing, make necessary corrections and be responsible for additional fees and expenses required for subsequent testing by Architect's Sound / Acoustic Consultant.

END OF SECTION