

**SECTION 10 2239 - COILING PARTITION SYSTEM****PART 1 - GENERAL****1.1 SUMMARY**

- A. Section Includes:
  - 1. Electrically operated, coiling partition room divider system.
  - 2. Control system.
- B. Related Requirements:
  - 1. Section 055000 - Metal Fabrications for supports that attach supporting tracks to overhead structural system.
  - 1. Division 26 for electrical connections.

**1.2 REFERENCES**

- A. ASTM C423, Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method
- B. ASTM E795, Standard Practices for Mounting Test Specimens During Sound Absorption Tests

**1.3 SUBMITTALS**

- A. Comply with Section 01 3300–Submittal Procedures:
- B. Product Data.
- C. Shop Drawings:
  - 1. Include configuration layout and dimensions.
  - 2. Show and identify related work performed under other sections of the specifications.
- D. Samples: For each type of exposed material, facing material, and finish indicated.
  - 1. Include similar Samples of accessories involving color selection.
- E. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency.
- F. Manufacturer's installation instructions and testing procedures.

**1.4 QUALITY ASSURANCE**

- A. Installer Qualifications: An employer of workers trained and approved by manufacturer.
- B. Certifications:
  - 1. Intertek-ATI acoustical testing per ASTM C423
- C. Pre-Installation Meeting:
  - 1. Schedule and convene a pre-installation meeting prior to commencement of field operations with representatives of the following in attendance: Owner, Architect, Contractor, and system sub-contractor.
  - 2. Review substrate conditions, requirements of related work, installation instructions, storage and handling procedures, and protection measures.

- 3. Document responsibilities of various parties and deviations from specifications and installation instructions.

**1.5 CLOSEOUT SUBMITTALS**

- A. Comply with Section 01 7700–Project Closeout:
  - 1. Operation and Maintenance Manual.
  - 2. Manufacturer’s Warranty

**1.6 PROJECT CONDITIONS**

- A. Field Measurements: Verify actual dimensions of coiling partition openings by field measurements before fabrication.

**1.7 DELIVERY, STORAGE, AND HANDLING**

- A. Comply with Section 01 6600–Delivery, Storage, and Handling.
- B. Comply with manufacturer’s instructions.

**1.8 WARRANTY**

- A. Provide manufacturer’s standard one-year warranty.

**PART 2 - PRODUCTS**

**2.1 MANUFACTURED UNITS**

- A. Manufacturer:
  - 1. Tudelü, 1000 Dean St #434, Brooklyn, NY 11238
  - 2. www.tudelu.com

**2.2 PERFORMANCE / DESIGN CRITERIA**

- A. Acoustical Performance:

1/3 Octave Sound Absorption Coefficients						NRC	SAA
125	250	500	1000	2000	4000		
0.05	0.13	0.14	0.16	0.24	0.38	0.15	0.18

- B. Screen Sizes:
  - 1. Horizontal: 24 feet clear opening maximum
  - 2. Vertical: 11 feet clear opening maximum

**2.3 PARTITION TYPES**

- A. Single partition, above ceiling (STC 31)
- B. Single partition, flush with ceiling (STC 31)
- C. Double partition, above ceiling (STC 46)
- D. Double partition, flush with ceiling (STC 46)

- E. Mounting:
  - 1. Inside wall opening
  - 2. Face of wall opening

## **2.4 COMPONENTS**

- A. Curtain Finishes:
  - 1. Acoustic Vinyl
    - a. Paint: printed to match
    - b. Print: Jill Malek or custom
    - c. Felt: 2 or 3mm, 100% wool, 100% biodegradable, 31 colors, ASTM E 84 Class
- B. Frame: Fabricated of aluminum extrusions per manufacturers details.
- C. Electrical Requirements: 120V, 3-wire
- D. Motor Assembly:
- E. Controls:
- F. Fasteners: Type as required for substrate.
- G. RAL 90-10 White Standard on sheet metal finishes.

## **2.5 FABRICATION**

- A. Fabricate and install mounting brackets and fasteners needed to attach curtain assembly to building structure.

## **2.6 ELECTRIC OPERATORS**

- A. Factory-assembled electric operation system of size and capacity recommended and provided by coiling partition manufacturer for partition specified; with electric motor and factory-prewired motor controls, remote-control stations, control devices, and accessories required for proper operation. Include wiring from motor control to motor. Coordinate operator wiring requirements and electrical characteristics with building electrical system.
- B. Comply with NFPA 70.
- C. Motor Characteristics: Sufficient to start, accelerate, and operate connected loads at designated speeds, within installed environment, with indicated operating sequence, and without exceeding nameplate rating or considering service factor; complying with NEMA MG.
- D. Control Equipment: Complying with NEMA ICS 1, NEMA ICS 2, and NEMA ICS 6.
  - 1. Remote-Control Station: For partitions indicated, provide manufacturer's standard constant-pressure, three-position control station labeled "Open," "Close," and "Stop".

## **PART 3 - EXECUTION**

### **3.1 EXAMINATION**

- A. Examine substrates upon which work will be installed.

1. Verify related work performed under other sections is complete and in accordance with Shop Drawings.
  2. Verify wall surfaces are acceptable for installation of partition system components.
- B. Coordinate with responsible entity to perform corrective work on unsatisfactory substrates.
- C. Commencement of work by installer is acceptance of substrate.

### **3.2 INSTALLATION**

- A. Install partition system components in accordance with manufacturer's installation instructions.
- B. For flush-mounted systems, provide c-channel for to indicate spacing needed for side tracks. For double wall systems, the spacing is 24 inches.
- C. deep by 4in wide, by height of the system.
- D. Install vertical tracks on one side first so that the screen drum that goes on top will fit in. Put the tracks next to each other so that they are touching side-by-side with no gap and wall fillers flanking each side.
- E. Install the double screen drum on top the existing tracks on one side by snuggling in the box diagonally. Once the system is in the ceiling install tracks on other side.
- F. Connect system to electrical power.
- G. Finish ceiling and wall surfaces.
- H. Install brackets to secure in place.
- I. Seal around perimeter of system with acoustical sealant.

### **3.3 ADJUSTING**

- A. Adjust coiling partitions to operate smoothly, without warping or binding. Lubricate hardware and other moving parts.

### **3.4 CLEANING**

- A. Clean soiled surfaces of coiling partitions, to remove dust, loose fibers, fingerprints, adhesives, and other foreign materials according to manufacturer's written instructions.

### **3.5 DEMONSTRATION**

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain coiling partitions.

## **END OF SECTION**

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