

## SECTION 09841

### ACOUSTICAL BARRIER

#### PART 1 - GENERAL

##### 1.1 SUMMARY

- A. This Section includes mass loaded vinyl noise barrier.
- B. Related Sections include the following:
  - 1. Section 09250 - Gypsum Board Assemblies
  - 2. Section 09510 - "Acoustical Ceilings" for acoustical ceiling tiles supported by concealed suspension system and tested for noise reduction.
  - 3. Section 09720 - Wall Coverings for adhesively applied textile wall coverings.

##### 1.2 DEFINITIONS

- A. NRC: Noise reduction coefficient.

##### 1.3 SUBMITTALS

- A. **Product Data:** For each type of panel edge, core material, and mounting indicated.
- B. **Samples for Verification:** For the following products. Prepare Samples from same material to be used for the Work.
  - 1. Mounting Device: Full-size Sample.
  - 2. Sample mass loaded vinyl: 12" x 12".
- C. **Product Certificates:** For each type of acoustical barrier, signed by product manufacturer.
- D. **Qualification Data:** For fabricator and testing agency.
- E. **Product Test Reports:** Based on evaluation of comprehensive tests performed by a qualified testing agency, for each type of acoustical barrier.

##### 1.4 QUALITY ASSURANCE

- A. **Source Limitations:** Obtain acoustical barrier through one source from a single manufacturer.
- B. **Flammability:** UL 94VO.
- C. **Preinstallation Conference:** Conduct conference at Project site to comply with requirements in Division 1 Section "Project Management and Coordination."

##### 1.5 DELIVERY, STORAGE, AND HANDLING

- A. **Comply** with fabric and acoustical wall panel manufacturers' written instructions for minimum and maximum temperature and humidity requirements for shipment, storage, and handling.

- B. **Deliver materials** in unopened bundles and store in a temperature-controlled dry place with adequate air circulation.
- C. **Protect panels** from damage.

## 1.6 PROJECT CONDITIONS

- A. **Environmental Limitations:** Do not install acoustical barrier until spaces are enclosed and weatherproof, wet work in spaces is complete and dry, work above ceilings is complete, and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.

## PART 2 - PRODUCTS

### 2.1 MASS LOADED VINYL NOISE BARRIER

- A. **Manufacturers:** Subject to compliance with requirements, provide products by one of the following:
  - 1. Acoustical Surfaces, Inc.,  
123 Columbia Court North • Suite 201 • Chaska, MN 55318 • Tel: (952)-448-5300  
Fax: (952)-448-2613 • 1-(800)-448-0737 • Email: sales@acousticalsurfaces.com
  - 2. Prior approved equal
- B. **Barrier Construction:** Manufacturer's standard high density limp vinyl material to reduce noise transmission with smooth finish.
- C. **Thickness:** 1/8" - 1lb./sq.ft.
- D. **Panel Width:** As indicated on Drawings.
- E. **Panel Height:** Fabricated height as indicated on Drawings.
- F. **Color:** Black

### 2.2 ACCESSORIES

- A. **Sealant:** S.T.O.P. Sealant as recommended and manufactured by Acoustical Surfaces, Inc.
- B. **Miscellaneous Accessories:** SoftSounds™ Insulator, Stud isolators or RSIC clips, Super sound barrier. All as required to achieve NRC rating as shown on Drawings.

### 2.3 FABRICATION

- A. **Sound-Absorption Performance:** Provide acoustical barrier with minimum NRCs indicated.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. **Examine fabric, substrates, blocking, and conditions,** with Installer present, for compliance with requirements, installation tolerances, and other conditions affecting performance of acoustical barrier.

1. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 INSTALLATION

- A. Install acoustical barrier in locations indicated.
- B. Comply with acoustical barrier manufacturer's written instructions for installation of panels using type of mounting accessories indicated or, if not indicated, as recommended by manufacturer in order to achieve specified STC rating.. Anchor panels securely to supporting substrate.

END OF SECTION