

SECTION 09840
ACOUSTICAL TREATMENTS
2" FLAT PANEL – REGULAR EDGE FABRIC FINISH (spaced)
SPECIFICATION

PART I. GENERAL

- 1.1 Acoustical sound treatment shall be of type and size herein described.
- 1.2 Manufacturer shall have a minimum of 3 years experience in the production of acoustical products.
- 1.3 Submittals: Submit 12" x 12" samples for each type of sound panel or baffle required, including backing, core, facing material, and anchoring devices.

PART II. PRODUCTS

- 2.1 All panels shall consist of 2" thick mineral wool core with fiberglass mat front and back, fabric-wrapped and having square edges.
- 2.2 All product cores shall have a melting point of 1850° F (ASTM E-136); a flame spread of 0 and smoke developed rating of 0, a tensile strength minimum of 2631 lbs/ft² breaking load, and a compressive resistance of 480 lbs/ft² at 10% compression, and a horizontal sag of not more than 1/2" in 4 ft.
- 2.3 Since these special patented cores have a flame spread of 0 and smoke developed rating of 0, the rating of the cloth used would be the rating of the panel as a unit.
- 2.4 All NRC numbers must be in accordance with ASTM C423 for Type A mounting and certifiable acoustical data as obtained by an NVLAP-approved, independent testing laboratory shall be submitted to verify if the sound absorption at specified frequencies is satisfactory for this project.

Sound absorption coefficients for **2" Flat Panel – Regular Edge Fabric Finish** in spaced arrangement shall be as follows:

125 Hz	.31	1000 Hz	1.50
250 Hz	1.05	2000 Hz	1.37
500 Hz	1.67	4000 Hz	1.30
		NRC	1.40

- 2.5 Fabric is to be selected from manufacturer's standard fabrics. Fabrics shall be bonded to face and edges, and returned at the edges a minimum of 2" on the back of the panels. Manufacturer shall ensure flat, wrinkle-free surface and tailored corners.
- 2.6 All panels shall be pre-sized from exact field dimensions and altered in field as required for proper on-location fit.

- 2.7 Manufacturer shall provide "Concealed Multiple-Perforation Fastening Devices" (EZ-Clips) as follows: 4 per 4' x 4', 6 per 4' x 6', 8 per 4' x 8', or equal.

PART III. EXECUTION

3.1 Installation

Panels: Each "Concealed Multiple-Perforation Fastening Device" (EZ-Clips) shall be placed on the wall with appropriate attachment screws so that it will impale the acoustical absorber approximately 6" in from each corner and approximately 6" in from each side on longer panels. Paneling adhesive is to be applied in a 3/8" bead 1-1/2" in from the edge before impaling panel on Concealed Multiple-Perforation Fastening Devices" (EZ-Clips). All necessary field alterations are to be done according to manufacturer's own specific instruction and information directives.

SECTION 09840
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- 1.2 Manufacturer shall have a minimum of 3 years experience in the production of acoustical products.
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- 2.3 Since these special patented cores have a flame spread of 0 and smoke developed rating of 0, the rating of the cloth used would be the rating of the panel as a unit.
- 2.4 All NRC numbers must be in accordance with ASTM C423 for Type A mounting and certifiable acoustical data as obtained by an NVLAP-approved, independent testing laboratory shall be submitted to verify if the sound absorption at specified frequencies is satisfactory for this project.

Sound absorption coefficients for **2" Flat Panel – Regular Edge Fabric Finish** shall be as follows:

125 Hz	.51	1000 Hz	1.25
250 Hz	1.01	2000 Hz	1.16
500 Hz	1.24	4000 Hz	1.13
		NRC	1.15

- 2.5 Fabric is to be selected from manufacturer's standard fabrics. Fabrics shall be bonded to face and edges, and returned at the edges a minimum of 2" on the back of the panels. Manufacturer shall ensure flat, wrinkle-free surface and tailored corners.
- 2.6 All panels shall be pre-sized from exact field dimensions and altered in field as required for proper on-location fit.

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