

Commercial Acoustics Absorption Panel Specification

Division 09 – Finishes

Section 097723 – Fabric-Wrapped Panels or 098400 Acoustic Room Components

PART 1 – GENERAL

1.1 SUMMARY

A. Section includes:

1. “Acoustic Absorption Panel” *Ekko Eraser* by Commercial Acoustics.

1.2 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract including supplements and addendums.
- B. Applicable Specification Sections: Division 01 – General and Division 09 – Finishes.

1.3 REFERENCES

A. Fire Hazard Classification:

1. Class A: ASTM E84 / UL723 / NFPA 255 – *Standard Test Method for Surface Burning Characteristics of Building Materials*.
2. Meets NFPA 90A and 90B.

B. Performance:

1. ASTM C423 – *Standard Test Method For Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method*.

1.4 SUBMITTALS

A. For each product indicated:

1. Product Data Sheet.
2. Detailed Installation Instructions, including jobsite condition requirements, surface preparation requirements, and approved products.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. All materials shall be delivered in original unopened packaging.
- B. Store product in original packaging at room temperatures.
- C. Unwrapped Panels to be handled with clean gloves. Do not bend, puncture, brush, paint or otherwise misuse the Panels.

1.6 PROJECT CONDITIONS

- A. Site to be clean, clear, and accessible at time of installation.
- B. Art Absorption Panels are installed after drywall installation is complete and the space is fully dried-in.
- C. Ensure that all applicable inspections are completed and that all wall penetrations are set prior to installation.

PART 2 – PRODUCTS

2.1 ACOUSTIC ABSORPTION PANEL BY COMMERCIAL ACOUSTICS

A. Materials:

1. 6-7pcf Acoustical Fiberglass
 - a. Processed from borosilicate glass fibers, bonded with thermosetting resin.

2. Maharam, DesignTex, Carnegie, or Guilford of Maine acoustically transparent fabric wrap.
3. Resin-hardened edges, as required.
4. Edge Options: square; beveled.
- B. Dimensions:
 1. Thickness: 1" to 2" Standard; 1-1/8" to 2-1/8" High Impact
 2. Standard Sizes: 2'x2', 2'x4', 2'x6', 2'x8', 4'x4', 4'x6', 4'x8'.
 - a. Custom sizes are available
 3. Tolerances: +/- 1/4"
 4. Tackable Face Layer: 1/8" thick, 16-18 pcf, Impact Resistant layer
- C. Performance:
 1. Noise Reduction Coefficient per ASTM C423
 - a. NRC = 1.10 for 2" Thick with 1/8" Tackable Layer.
 - b. NRC = 1.05 for 2" thick.
 - c. NRC = 0.80 for 1" thick.
 - d. See data sheet for octave-band summary.
 2. Environmental:
 - a. Indoor Air Quality: Certified by GREENGUARD Environmental Institute as low-emitting product (Children Standard).

PART 3 – EXECUTION

3.1 PREPARATION

- A. Wall to receive Absorption Panel must be structurally sound prior to installation.
- B. Wall must be clean and free of debris.
 1. Protrusions greater than 1/16" shall be scraped from the surface.

3.2 INSTALLATION

- A. Wall-mounted using impaling clips. Hardware included with Panels.
- B. Direct ceiling mount with Z-clips and suspended cloud mount using Rotofast Anchors available. See manufacturer's installation instructions.

3.3 PROCEDURE

- A. Install impaling clips into drywall using standard drywall anchors and drywall screws.
 1. Provide 1" wooden shims if necessary for walls with curvature.
- B. Place Panel 1/2"-1" above desired finished height, and press down at a 45-degree angle into place onto teeth of impaling clips.
 1. Use Liquid Nails or other construction adhesive to secure Panels to impaling clips, if necessary.
- C. Handle panels with clean gloves. Contact manufacturer for post-installed cleaning methods.
- D. Contact manufacturer for direct ceiling and ceiling-cloud mounting procedure.

3.4 MAINTENANCE

- A. Standard Care Label W/S. Clean with water based cleaning agents, foam or pure, water free solvents. Vacuuming or light brushing is recommended to prevent dust and soil buildup.
- B. Reference: "**W/S**"—A W/S code, as you might expect, means that a combination of dry cleaning solvents and water-based cleaners may be used. These fabrics can be spot cleaned with upholstery shampoo, foam from a mild detergent, or a mild dry cleaning solvent.

END OF SECTION