



Working Walls Solutions

TECHNICAL INFORMATION and SPECIFICATION MANUAL

Effective July, 2016

Manufacturers of:

- Fabric Covered Acoustical Wall Panels
- Hanging Sound Baffles and Clouds
- Tackboards
- Display Boards
- Decorative Wall Panels and other Fine Products

NOTE: Fill-In-The-Blanks or Choice of Description below is highlighted by underlining{_____}.

SECTION 09521 - ACOUSTICAL WALL PANELS

PART 1 - GENERAL

RELATED DOCUMENTS

A. Drawing and general provisions of contract, including General and Supplementary Conditions and Division 1 Specification sections, apply to work of this section.

1.02 SUMMARY

- A. Extent of acoustical wall panels is shown on drawings.
- B. Additional information regarding acoustical wall panels is available in the Acoustical Wall Panels Schedule.

1.03 SUBMITTALS

- A. Product Data: Submit manufacturer's technical data for acoustical wall panel required.
- B. Shop Drawings: Submit shop drawings indicating layout of acoustical wall panel system based upon field verified dimensions; include dimensional relationships to adjoining work. Include details, dimensions, materials, edge conditions, anchorage system, construction, and other pertinent data. Clearly describe location of each fabric.
- C. Samples for Verification Purposes: Submit three 12 inch by 12 inch fabric covered acoustical wall panel samples of each type specified in this section for review and approval.
- D. Certified Test Reports: Submit test data from independent testing agency, acceptable to authorities having jurisdiction, evidencing that panel assemblies comply with requirements indicated for fire performance characteristics. Submit test data evidencing that panel assemblies comply with requirements indicated for acoustic characteristics.
- E. Certificates: Submit certificates from manufacturers of acoustical wall panels attesting that their products comply with specified requirements including those for fire performance characteristics.
- F. Maintenance Manual: Submit maintenance manual describing care and cleaning of the panels.

1.04 QUALITY ASSURANCE

- A. Installer Qualifications: Firm specializing in acoustical wall panels of the type and complexity required for this project and with not less than five years experience in fabrication and installation of acoustical panel types specified.
- B. Fire Performance Characteristics: Provide acoustical wall panels, with surface burning characteristics as indicated below, which have been determined by testing assemblies of identical materials and construction according to ASTM E-84 by a testing organization acceptable to authorities having jurisdiction.
 - 1. Flame Spread: 25 or less
 - 2. Smoke Developed: 80 or less

1.05 PRODUCT HANDLING

A. Protect acoustical wall panels from excessive moisture in shipment, storage and handling. Deliver in unopened bundles and store in a dry place with adequate air circulation. Do not deliver material to building until "wet work" such as concrete and plaster has been completed and cured to a condition of equilibrium.

1.06 PROJECT CONDITIONS

- A. Environmental Conditions: Do not store in, or begin installation until spaces to receive acoustical wall panels have been enclosed and maintained at approximately the same humidity and temperature conditions as planned for occupancy. Maintain temperature and humidity as recommended by panel manufacturer.
- B. Field Measurements: Check actual locations of walls, ceilings, openings and other construction to which acoustical panels must fit, by accurate field measurements, before preparation of shop drawings. Coordinate fabrication schedule with construction progress to avoid delay of work.

1.07 EXTRA MATERIALS

- A. Deliver extra materials to owner. Furnish extra materials described below matching products installed, packaged with protective covering for storage and identified with appropriate labels:
 - 1. Acoustical Wall Panels: Furnish quantity of full size units equal to 2.0 percent of the amount installed.

PART 2 - PRODUCTS

ACOUSTICAL WALL PANELS, GENERAL

A. Fabricate panels to sizes and configurations indicated; attach facing materials to cores to produce installed panels with visible surfaces fully covered and free of wrinkles, sags, blisters, seams, adhesive or other foreign matter and wrapped two inches to the back.

1. Fabricate back-mounted panels in factory to exact sizes required to fit wall surfaces based upon field measurements of completed substrates indicated to receive wall panels.

B. Sound Absorption Performance: Provide acoustical wall panels with minimum noise reduction coefficients (NRC) of { ____ } or greater, as determined by testing, per ASTM C-423 for a Type A (#4) mounting. If necessary, the panels will also have a minimum sound transmission class (STC) of { ____ } or greater, as determined by testing, per ASTM E-90.

BACK MOUNTED ACOUSTICAL WALL PANELS

A. Back Mounted Acoustical Wall Panels: Working Walls Solutions, Inc. **{insert product name}** panel, consisting of fabric stretched over core and complying with the following requirements:

1. **{Fiberglass, Mineral fiberboard or Perforated mineral fiberboard}** core. Nominal overall thickness of { ____ }"
2. Panel Sizes: { ____ }/or as indicated on drawings}.
3. Edge Detail: **{square, bevel, or radius}**.
4. Corner Detail: **{square or rounded}**.
5. Facing Material: Provide fabric applied directly to the face and edges of the panel and returned 2 inches to the back for fully finished edges and fully tailored corners. Provide facing as described below:
 - (A) ____ **"Selection from manufacturer's standard range of fabrics", or insert fabric manufacturer's name here}**
 - (B) Contents: **{100% Polyester (Working Walls' standard) or other fabric contents here}**
 - (C) Pattern: **{insert here if applicable}**
 - (D) Color: { ____ } **insert here if applicable}**

B. Mounting Method: **{Velcro, Adhesive, Mechanical Z-clip, Magnetic Plate or Impaling clip/Adhesive installation}**

C. Manufacturer: **Working Walls Solutions, Incorporated. Phone: (216)749-7850, Fax: (216)749-7855 email: info@workingwalls.com**

PART 3 - EXECUTION

3.01 INSTALLATION

A. Install acoustical wall panels in locations indicated with vertical surfaces and edges plumb, top edges level, and in alignment with other panels, scribed to fit adjoining work accurately at borders and penetrations. Comply with Working Walls' printed instructions for installation of panels using type of mounting accessories recommended. Do not use exposed-to-view fasteners.

B. Remove and replace panels which are damaged, soiled, glue-stained, and are unacceptable to architect.

C. Coordinate work with finish carpentry (hardwood) panel trim work.

D. Examine the areas and conditions under which work of this section will be performed. Correct conditions detrimental to timely and proper completion of the work. Do not proceed until unsatisfactory conditions are corrected.

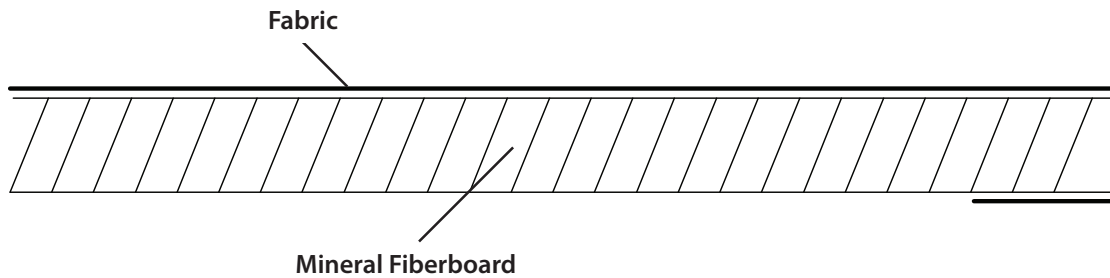
E. In addition to other stipulated requirements for cleaning, completely remove fingerprints and traces of soil using only those cleaning materials recommended for the purpose by the manufacturer of the material being cleaned.

END OF SECTION



Decorative Tack Panel

Product Code: DT



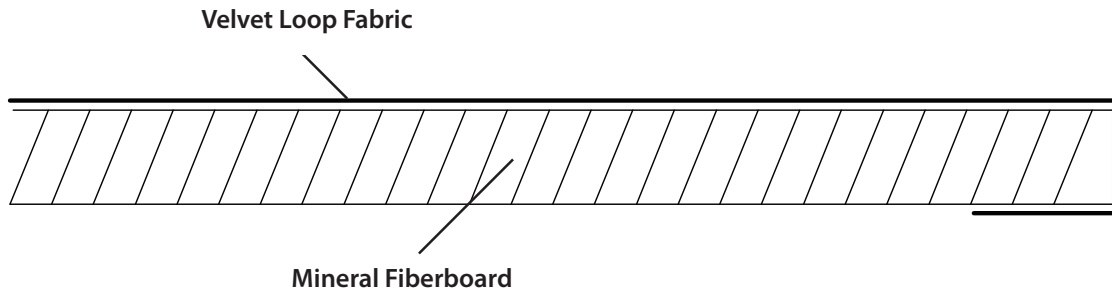
The **Decorative Tack Panel** is designed for use on walls where a long lasting tackable surface is needed. It can also be used as a purely visual piece adding color and texture to a room. Conference rooms, classrooms, offices and hospital patient rooms are just a few perfect applications for these panels.

SPECIFICATIONS:

- Fabric covered 25 PCF pressed mineral fiberboard
- Standard fabric covering is with one of our Grade 1, Guilford of Maine fabrics. (Other fabrics by Guilford and other manufacturers are available – see price list.)
- Class A fire rated
- NRC: up to .35, STC: 25
- Standard Thickness: 1/2" (Other thicknesses are available)
- Any size available up to 4' x 10'
- Edge options: Square
Bevelled
Blunt Bevel
Radius
- Corner options: Square
Radius
- Mounting options: Velcro hook & loop tape
Impaling clips and adhesive
Magnetic Plate
Z-clip
Partition clip (with panel modification - see price list)

Velvet Loop Board

Product Code: VLB

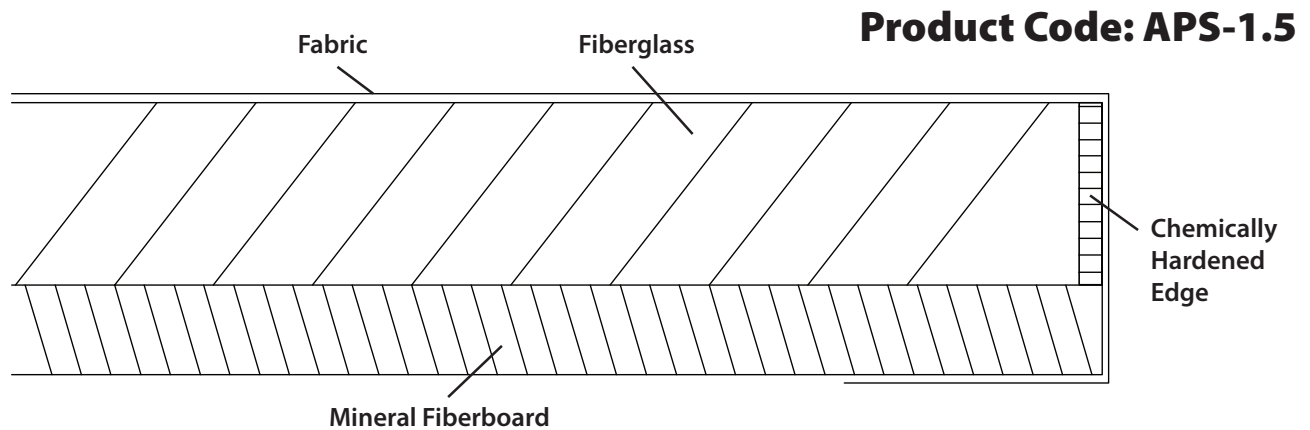


The **Velvet Loop Board** is a panel that is both tackable and Velcro compatible. It is useful as a standard bulletin board, but it offers the added option to display items like artwork that push pins would damage or plaques that will not pin up. Used often in display cases, these panels also work very well in hospital and classroom environments.

SPECIFICATIONS:

- 25 PCF mineral fiberboard covered with Velvet Loop Velcro compatible fabric
- Comprised of Class A fire rated materials
- NRC: up to .35, STC: 25
- Standard Thickness: 5/8" (Other thicknesses are available)
- Any size available up to 4' x 10'
- Edge options: Square (will appear slightly rounded due to fabric thickness)
Radius
- Corner options: Square (will appear slightly rounded due to fabric thickness)
Radius
- Mounting options: Velcro hook tape
Impaling clips and adhesive
Magnetic Plate
Z-clip
Partition clip (with panel modification - see price list)

Acoustical Panel System - Series 1.5



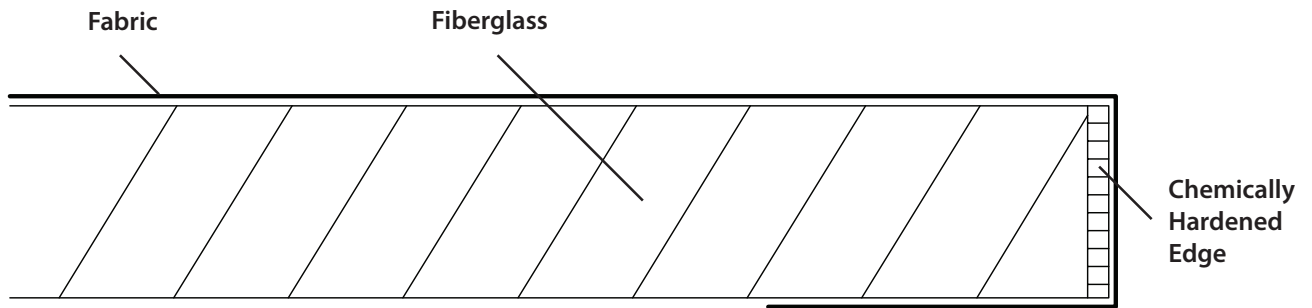
The **APS-1.5 panel** is designed to reduce sound reverberation within a room while at the same time adding an extra layer of soundproofing to keep sound from escaping or entering the room. Conference rooms and other areas where sensitive information is discussed are excellent applications.

SPECIFICATIONS:

- 1/2" thick 25 PCF layer of mineral fiberboard faced with 1" thick layer of 6 PCF fiberglass, covered with fabric
- Standard fabric covering is with one of our Grade 1, Guilford of Maine fabrics. (Other fabrics by Guilford and other manufacturers are available – see price list.)
- Class A fire rated
- NRC: .80, STC: 25
- Standard Thickness: 1-1/2" (Other thicknesses are available)
- Any size available up to 4' x 10'
- Edge options: Square
Bevelled
Blunt Bevel
Radius
- Corner options: Square
Radius
- Mounting options: Velcro hook & loop tape
Impaling clips and adhesive
Magnetic Plates
Z-clip
Partition clip (with panel modification - see price list)

Acoustical Panel System - Series 3

Product Code: APS-3



The **APS-3 panel** is designed to reduce sound reverberation within a room. Covering full walls or strategically placing these panels around an area can make it much quieter. These panels have been used extensively in auditoriums, conference rooms, offices, classrooms, and many other areas where the sound levels have needed adjusting.

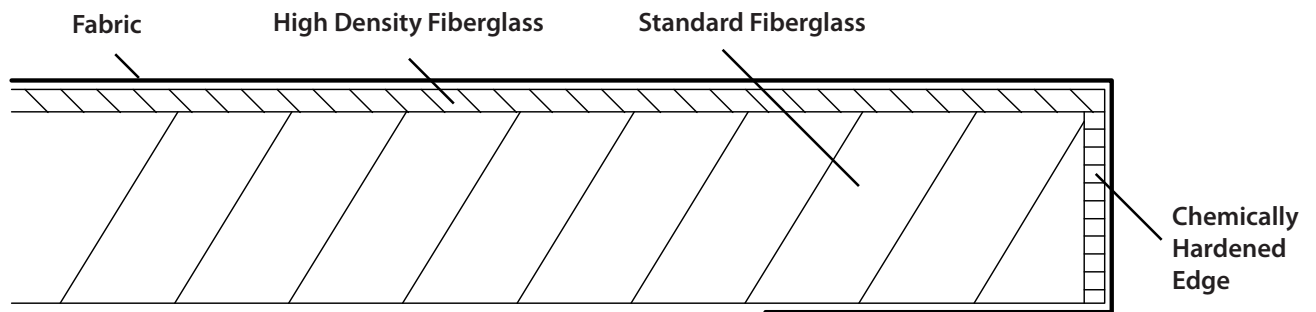
Specifications:

- Fabric covered 6-7 PCF fiberglass with chemically hardened edges
- Standard fabric covering is with one of our Grade 1, Guilford of Maine fabrics. (Other fabrics by Guilford and other manufacturers are available – see price list.)
- Class A fire rated
- NRC: .85 (1"), 1.05 (2")
- Standard Thickness: 1", 2" (Other thicknesses are available)
- Any size available up to 4' x 10'
- Edge options:
 - Square
 - Bevelled
 - Blunt Bevel
 - Radius
- Corner options:
 - Square
 - Radius
- Mounting options:
 - Velcro hook & loop tape
 - Adhesive
 - Adhesive with impaling clips
 - Magnetic Plates
 - Z-clip
 - Partition clip (with panel modification - see price list)



High Impact APS-3

Product Code: HIAPS-3



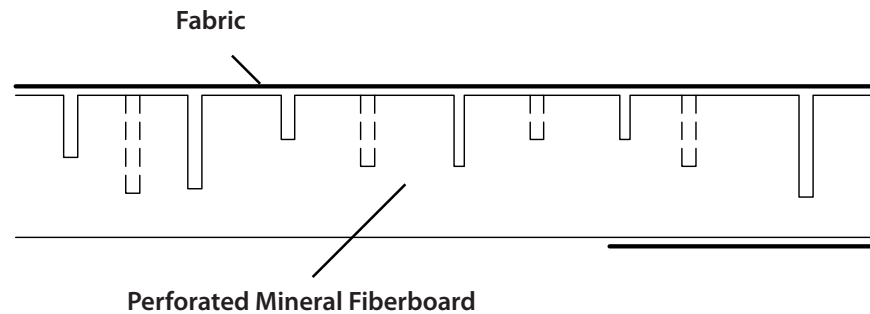
The **High Impact APS-3** has all the characteristics of the standard APS-3 panel with two added benefits. The harder face of the panel will be more resistant to damage, and the panel will have a more tackable face than the standard APS-3. These panels have applications in conference rooms, libraries, and other high traffic areas.

SPECIFICATIONS:

- 6-7 PCF fiberglass with chemically hardened edges faced with 1/8" thick high density impact resistant fiberglass, all covered with fabric
- Standard fabric covering is with one of our Grade 1, Guilford of Maine fabrics. (Other fabrics by Guilford and other manufacturers are available – see price list.)
- Comprised of Class A fire rated materials
- NRC: .90 (1-1/8"), 1.10 (2-1/8")
- Standard Thickness: 1-1/8", 2-1/8" (Other thicknesses are available)
- Any size available up to 4' x 10'
- Edge options: Square
Bevelled
Blunt Bevel
Radius
- Corner options: Square
Radius
- Mounting options: Velcro hook & loop tape
Adhesive
Adhesive with impaling clips
Magnetic Plates
Z-clip
Partition clip (with panel modification - see price list)

Acoustical Panel System

Product Code: APS-4



The **APS-4 panel** is designed for areas where less sound absorption than the APS-3 panel is needed. These panels also have a moderately tackable face.

SPECIFICATIONS:

- Fabric covered 16 - 18 PCF perforated mineral fiberboard
- Standard fabric covering is with one of our Grade 1, Guilford of Maine fabrics. (Other fabrics by Guilford and other manufacturers are available – see price list.)
- Comprised of Class A fire rated materials
- NRC: .60, STC: 25
- Standard Thickness: 3/4" (Other thicknesses are available)
- Any size available up to 4' x 10'
- Edge options: Square
Bevelled
Blunt Bevel
Radius
- Corner options: Square
Radius
- Mounting options: Velcro hook & loop tape
Impaling clips with adhesive
Magnetic Plates
Z-clip
Partition clip (with panel modification - see price list)

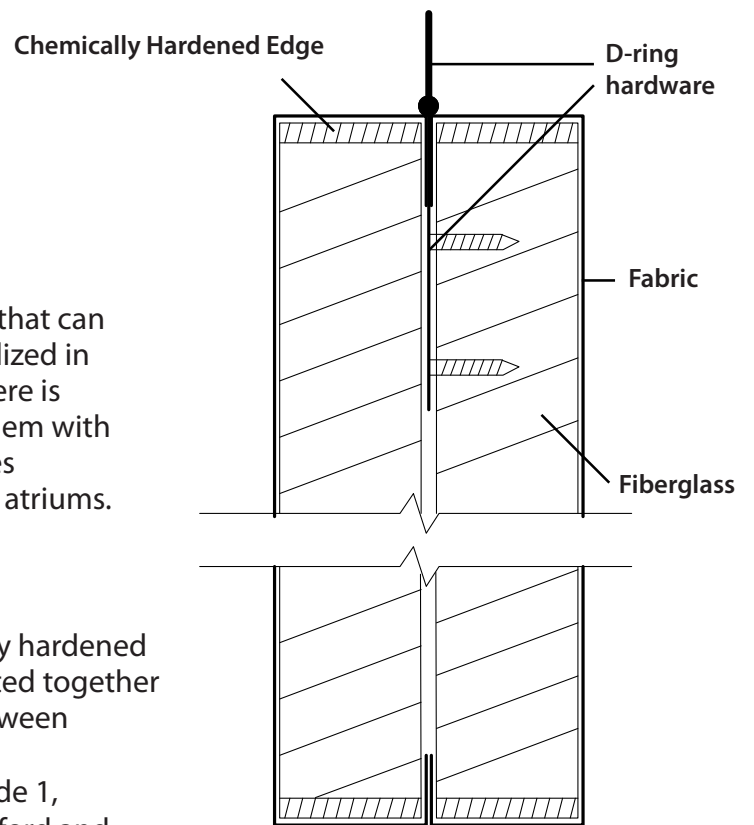
Hanging Baffle

Product Code: HBS

Hanging Baffles are two sided acoustical panels that can be suspended from the ceiling. They are often utilized in areas with high ceilings, or in situations where there is not enough wall space to correct the sound problem with wall panels. Baffles have been used in many places including auditoriums, gymnasiums, lobbies, and atriums.

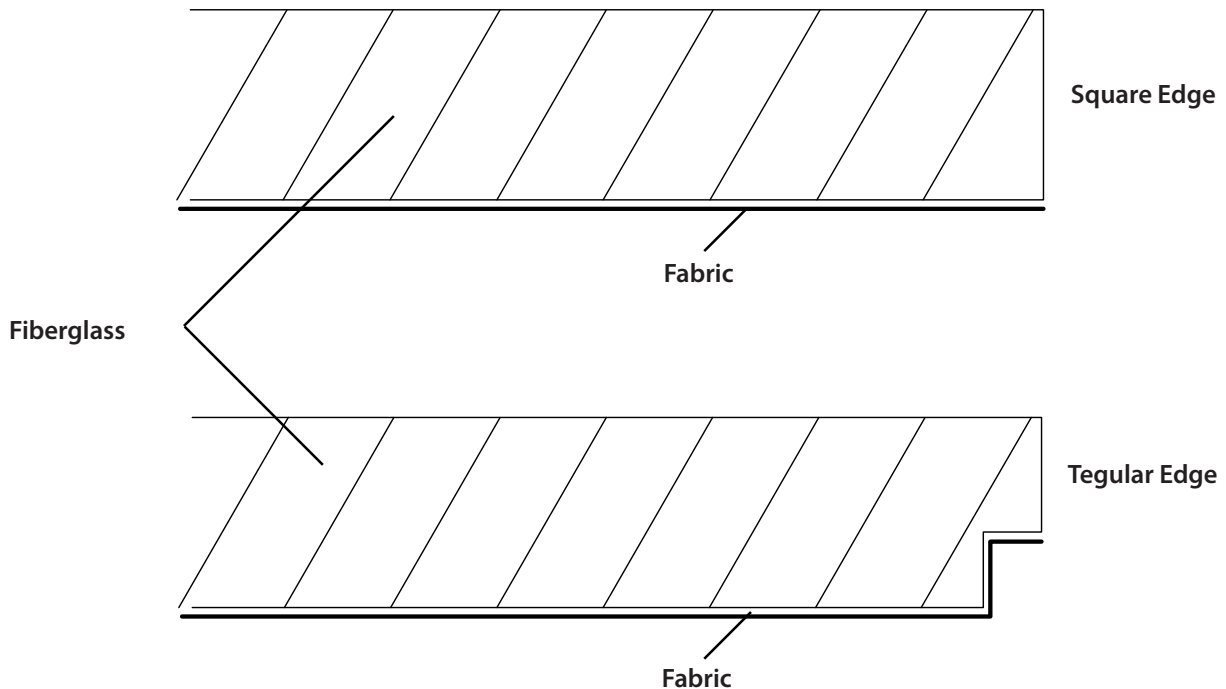
SPECIFICATIONS:

- Two pieces of 6-7 PCF fiberglass with chemically hardened edges individually fabric wrapped then laminated together with D-ring hanging hardware mounted in-between
- Standard fabric covering is with one of our Grade 1, Guilford of Maine fabrics. (Other fabrics by Guilford and other manufacturers are available – see price list.)
- Comprised of Class A fire rated materials
- Sabins of Absorption (2'x4' Baffle): 12
- Standard Thickness: 2" (Other thicknesses are available)
- Any size available up to 4' x 10'
- Edge options: Square
Blunt Bevel
Radius
- Corner options: Square
Radius



Ceiling Panel

Product Code: CPS



Designed to fit into standard dropped ceiling grids, the Ceiling Panel has a higher acoustical rating than standard drop-in ceiling tiles. These panels are used in dropped ceilings over areas that are exceptionally loud or in areas where an extra level of quiet is needed.

SPECIFICATIONS:

- Fabric faced 6-7 PCF fiberglass
- Standard fabric covering is with one of our Grade 1, Guilford of Maine fabrics. (Other fabrics by Guilford and other manufacturers are available – see price list.)
- Comprised of Class A fire rated materials
- NRC: .85-.95
- Standard Thickness: 1" (Other thicknesses are available)
- Standard sizes: 2' x 2', 2' x 4'
- Edge options: Square
Tegular

Partition to Ceiling Enclosure Type 1

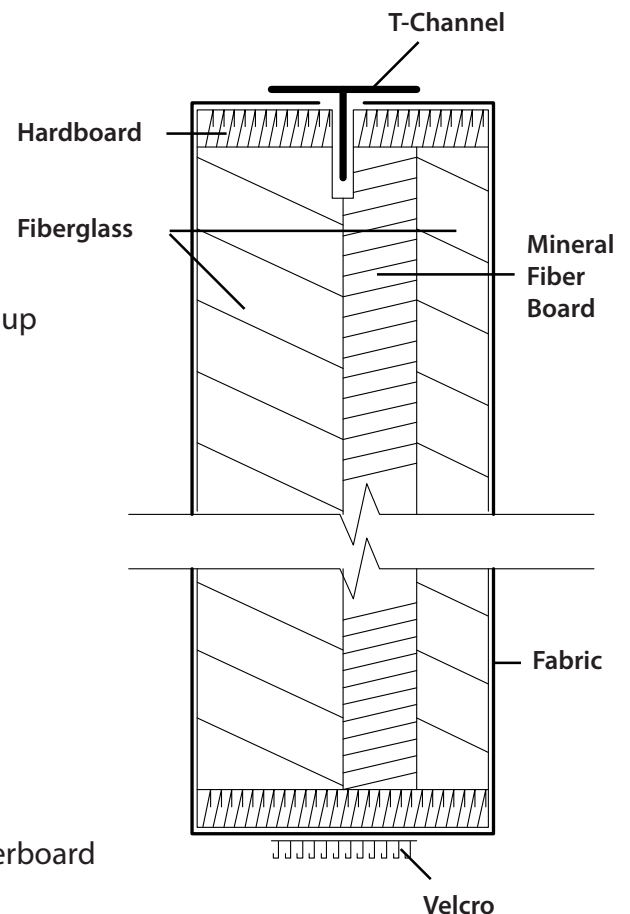
Product Code: PC-1

The **PC-1** is designed to extend an existing partition panel up to the ceiling. It attaches to the top cap of a system panel with Velcro. A T-channel is attached to the ceiling grid and runs down a groove in the center of the PC-1 to keep it upright. This product has applications in the office environment where the existing partition system does not give enough speech or visual privacy.

If the enclosure does not need to go all the way to the ceiling, a special fabric covered top cap can be made. (This is not always possible, call factory for details.)

SPECIFICATIONS:

- A sandwich of 6-7 PCF fiberglass and 25 PCF mineral fiberboard with a hardboard frame encapsulated with fabric
- Standard fabric covering is with one of our Grade 1, Guilford of Maine fabrics. (Other fabrics by Guilford and other manufacturers are available – see price list.)
- Comprised of Class A fire rated materials
- NRC: .80, STC: 25
- Standard Thickness: 2" (Other thicknesses are available)
- Any size available up to 4' x 10'
- Edge options: Square
- Corner options: Square



Partition to Ceiling Enclosure Type 2

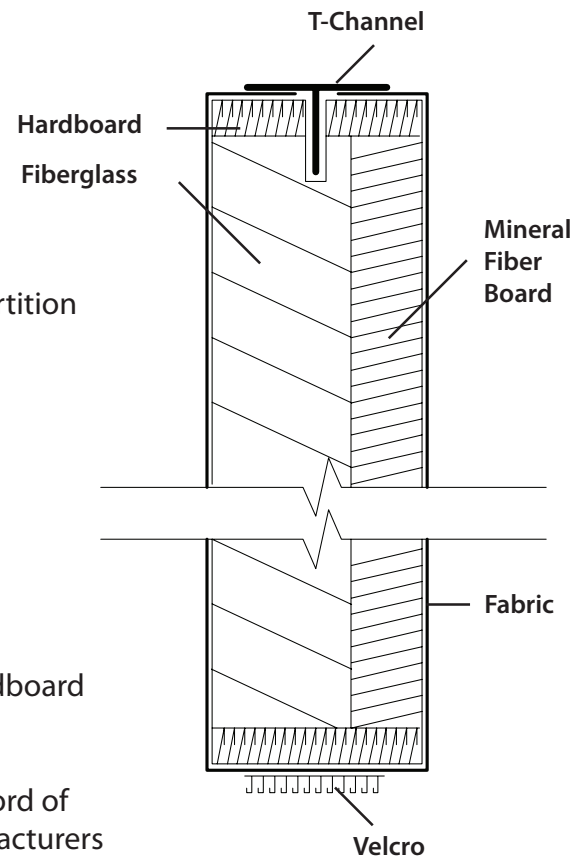
Product Code: PC-2

Like the PC-1, the **PC-2** is designed to extend an existing partition panel up to the ceiling. The PC-2 is 1/2" thinner and is a less expensive alternative.

If the enclosure does not need to go all the way to the ceiling, a special fabric covered top cap can be made. (This is not always possible, call factory for details.)

SPECIFICATIONS:

- 6-7 PCF fiberglass and 25 PCF mineral fiberboard in a hardboard frame encapsulated with fabric
- Standard fabric covering is with one of our Grade 1, Guilford of Maine fabrics. (Other fabrics by Guilford and other manufacturers are available – see price list.)
- Comprised of Class A fire rated materials
- NRC: .80 on fiberglass side, .35 on fiber board side, STC: 25
- Standard Thickness: 1-1/2" (Other thicknesses are available)
- Any size available up to 4' x 10'
- Edge options: Square
- Corner options: Square



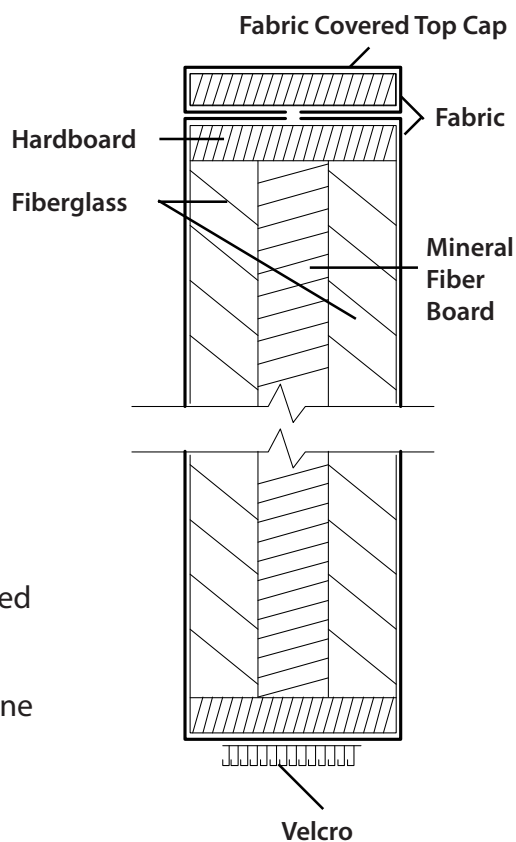
Desktop Divider

Product Code: DTD

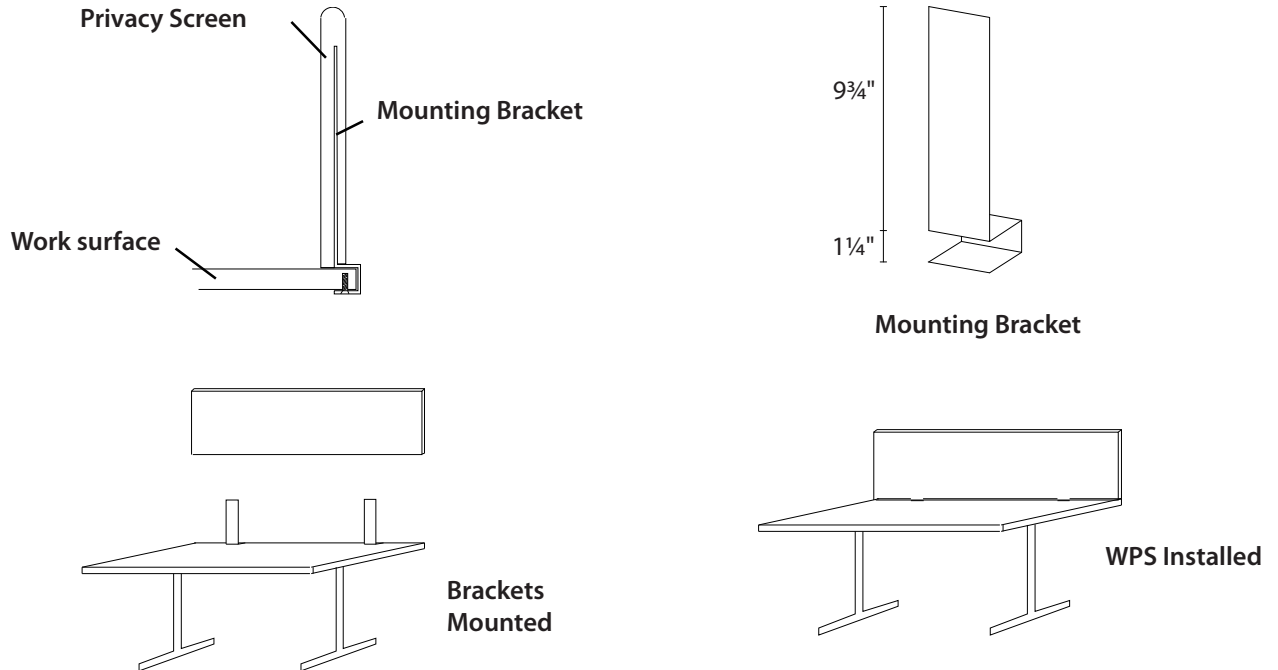
The **Desktop Divider** separates a worksurface into two separate private work areas. The Dividers mount to the worksurface and adjacent wall with Velcro, anchoring the unit in two planes. If no wall is nearby, a vertical support can be supplied to make the divider freestanding. Great for telemarketing and testing areas.

SPECIFICATIONS:

- A sandwich of 6-7 PCF fiberglass and 25 PCF mineral fiberboard with a hardboard frame encapsulated with fabric. A fabric covered top cap is attached.
- Standard fabric covering is with one our Grade 1 Guilford of Maine fabric (Other fabrics by Guilford and other manufacturers are available-see price list)
- Comprised of Class A fire rated materials
- NRC: .70, STC: 25
- Standard Thickness: 1-1/2" (Other thicknesses are available)
- Standard Sizes: 24" high by 24", 30", or 36" deep
- Edge options: Square
- Corner options: Square



Work Surface Privacy Screen



Designed to mount to the back or edge of a worksurface 1-1/4" thick or less, the WPS panel gives added visual and acoustical privacy to the user. The WPS mounts to the worksurface with brackets that screw into the underside and hold the fabric covered tackable screen in place. Often used in open plan areas where one or several people sit at desks with no systems panels dividing them or where you need to visually divide two desks facing or next to each other.

SPECIFICATIONS:

- Two fabric covered Decorative Tack Panels laminated back to back with grooves in the bottom edge that slide down over mounting brackets
- Standard fabric covering is with one of our Grade 1, Guilford of Maine fabrics. (Other fabrics by Guilford and other manufacturers are available – see price list.)
- Comprised of Class A fire rated materials
- NRC: up to .35, STC: 25
- Standard Thickness: 1" (Other thicknesses are available)
- Typical Sizes: 12" to 24" high by 24" to 72" wide (other custom sizes available)
- Edge options: Bullnose top and sides, bottom edge Square
- Corner options: Radius (typical)
Square (optional)
- Mounting options: Metal Brackets

Mounting Options

Working Walls panels can be mounted to vertical surfaces in many different ways:

ADHESIVE - The panels will be supplied with no mounting hardware. Construction adhesive can be purchased locally, or directly from Working Walls Solutions, Inc.

IMPALING CLIPS AND ADHESIVE - The panels will be supplied with no mounting hardware attached. Impaling Clips are pronged metal plates that screw into the wall with the prongs facing outward. Adhesive is then applied to the back of the panel. The panels are impaled on the pronged plates which will hold them in place while the adhesive dries. 2 to 8 clips will be supplied per panel.

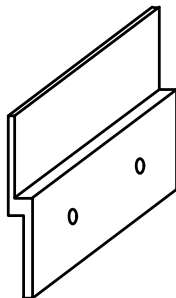
VELCRO HOOK & LOOP TAPE - Each panel will have the Hook tape pre-attached to the rear. Matching pieces of peel-and-stick Loop tape will be supplied. The Loop tape is attached to the wall, then stapled to the wall. The panels are hung by lining up the Hook with the Loop tape.

MAGNETIC PLATES - Magnetic plates will be attached to the rear of each panel (2 to 8 per panel). The panels can then attach to most metal surfaces.

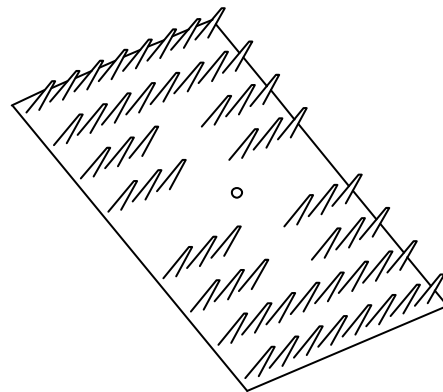
Z-CLIPS - Metal "Z" shaped clips are attached to the rear of each panel. An equal amount of clips are supplied to attach to the walls. The Z shape allows the clips on the panels to slide down over the clips on the walls. NOTE: A minimum gap of 1" must be left above the panels to leave room for the panels to lift over and slide down onto the wall-attached clips.

PARTITION CLIPS - A universal clip can be supplied that will allow Working Walls panels to attach to most new and old partition systems including Steelcase, Haworth, Herman Miller, Allsteel, Knoll, Westinghouse, GF, Panel Concepts, American Seating, Krug, Transwall, and many others. The panels may have to be "modified" for good clip attachment.

CONCEALED SPLINE - If necessary, this type of mount is also available.



Z-Clip

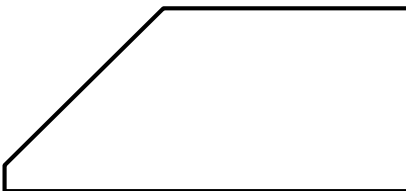


Impaling Clip

Edge And Corner Selections



Square Edge



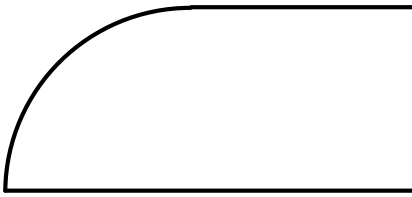
Bevelled Edge



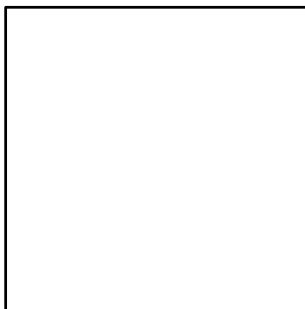
Blunt Bevelled Edge



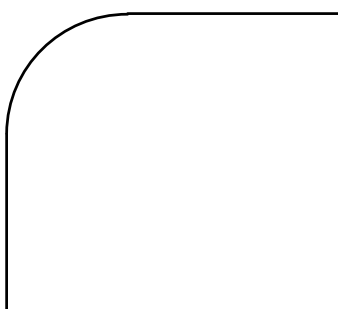
1/2" Radius Edge



1" Radius Edge



Square Corner Detail



Radius Corner Detail

Other Custom Options

MODIFIED PANELS

For some applications it is necessary to screw a piece of hardware into the rear of the panel. In cases where resin hardening a spot on the back of a panel will not work, the panel can be "modified" by laminating 1/4" thick hardboard around the perimeter of the panel back. This is done before the panel is wrapped with fabric. This increases the panel thickness by 1/4". Call factory for details or see price book for pricing information.

FRAMED-OUT PANELS

The purpose of framing out a panel is to increase the thickness. A 1/2" thick frame of mineral fiberboard is laminated to the rear of the panel before wrapping, thus adding 1/2" to the depth of the panel. Call factory for details or see price book for pricing information.

NON-GUILFORD FABRICS AND CUSTOMER'S OWN MATERIAL (COM)

Working Walls Solutions, Inc. is capable of using many types of fabric from many different manufacturers. Please call the factory with manufacturer's data or send a sample to the factory for approval. The fabric can be purchased directly from the manufacturer or supplied by the customer.

ACOUSTICAL AND PERFORATED VINYL

These vinyls are available on Working Walls panels. Call factory for details.

OTHER SUBSTRATES

Other substrates such as plywood, particle board, Foam-cor, Gatorboard, Masonite, Sintra, and many others can be fabric wrapped. Call factory for details.

OUT-OF-SQUARE PANELS, CUSTOM SHAPES, CUT-OUTS OR NOTCHES

All are available, please send drawings to factory.



Manufacturers of:

Fabric Covered Acoustical Wall Panels, Hanging Sound Baffles and Clouds, Tackboards, Display Boards, Decorative Wall Panels, and other Fine Products.



Working Walls Solutions

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