

Soak Plane

PLANE FABRIC FINISHED SYSTEM

www.anutone.com/soakplane.htm

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anutone[®]
makes you feel good™

Key Attributes

The twin functions of aesthetics and performance! Soak Plane sets standards for fabric panels as an upscale architectural finish and practical acoustical applications.

Soak Plane adds to the portfolio of winning advantages, elegance, economy and ease of installation that brings

- productivity and privacy to the modern workplaces
- demanding performance to special spaces

An added feature is of high impact resistance making Soak Plane rugged and durable

Typical Applications

Soak Plane is used for acoustical wall panellings and combo partitions in offices, auditoria, multiplexes banquet halls, studios, audiometric rooms, home theatres etc.

Visual Variants

The visual variants of Soak Plane are realised from the fabric colours -



Features

- Densities

400	600	800	500	kgs/m ³
ND4	HD6	VHD8	VDH™	Code
- Sizes - Width - 600mm; Lengths - 1200 / 2400 mm
- Thickness - 10 / 15 / 20 / 25 / 30 / 40 / 50 mm
- Custom, Nominal, Non-metric, Flexi/odd sizes are not possible except Intermediate lengths 600 / 1800 mm.
- Edge profiles - Normal with long edges kerfed for thickness ≥ 20 mm. Normal non-kerfed for thickness < 20 mm.
- Fabric returns - Fabric is returned and bonded along the short edges and returned and bonded upto the groove for the long edges.
- Tackable surface for pin-ups.
- Movable panels to conceal whiteboards possible.
- Base panel conforms to EN 13168 2001.

Framework

Installation is quick and easy with AnutoneProfiles F-Spline for thickness ≥ 20 mm. Achieves fastener-less installation and 'zero-rattle' during LF-induced airborne vibrations. For greater system depth, F-Splines can be installed on AnutoneProfiles C-System.



Aesthetics

- Fabric walls with neat joint lines, vertically and horizontally, for a true panel effect.
- The edge profile is pencil radius due to fabric wrapping.
- Wood-based transition reveals accentuate the upscale wall finishes.

Design Considerations

- Dado or chair rails and other transition reveals must be introduced early in the design.
- Indicated panel thickness is for base panel only - fabric thickness of 3 mm should be added for overall Soak Plane thickness. AnutoneProfiles F-Spline system of fastener-less installation is recommended and applies for thicknesses of ≥ 20 mm. Add 2 mm for the F-Spline to the overall system thickness. Hence, 20 mm panel means 25 mm system thickness.
- Soak Plane < 20 mm thick are installed with Stitch the heads being camouflaged with fabric fuzz.
- Panels should not touch the wall-floor junction but rest on a wooden skirting which may be repeated at the wall-ceiling junction.

Accessibility

Installation of Soak Plane with AnutoneProfiles F-Spline ensure easy dismantling and reinstallation of panels for accessibility to the surface or void behind. Where panels are installed with AnutoneStitch fasteners, unfastening and refastening can cause panel damage.

Tech Performance

- The Plane fabric and F-Spline are FR grade. For base panel
- Non-combustibility - Mass loss 53% @ 750 oC - ISO 1182
 - Ignitibility - 'P' - BS 476 Part 5
 - Fire Propagation Index - 5.17 - BS 476 Part 6
 - Surface Spread - Class I - BS 476 Part 7
 - Specific Optical Density of Smoke - Flaming Exposure 26.28 Dm (Corr) - ASTM E662
 - Thermal Conductivity - 0.08 Wm/k - IS 3346

Environmental Impact

The base panel is an eco-friendly product and wins GBC's 15 LEED points for green buildings, a AnutoneSustain effort from Anutone®.

Technical Variants

Anutone's AcoustCombi technology - variable sound absorption - is realised from technical variants. They work multimode from the inside but look the same on the outside!

- Soak NSS – natural surface for mid and high frequency sound absorption
- Soak SPH – regular perforated surface for narrowband sound control
- Soak Burl – blinded surface suitable for low-frequency sound absorption
- Soak MAT™ – microfibre surface for broadband sound control

For noise isolation, technical variants are realised from the core material - Septum.

- Soak Septum
- Soak Septum T3/T5
- Soak MultiSeptum
- Soak MultiSeptum T3/T5.



Logistics

Thk (mm)	Nos./ carton	Carton wt (kgs)	Carton ht (mm)	Carton size (mm) 1216 x 616
10	12	52	165	
15	08	48	150	
20	06	44	145	
25	06	54	175	
30	04	47	135	
40	04	60	180	
50	02	34	110	

Note - Carton weight is for Soak ND4 NSS Plane only.

Soak Plane is always packed in pairs. Minimum order qty - 1 carton.

Economics

Soak Plane ND4 20mm on AnutoneProfiles F-Spline is techno-commercially economical for the lifecycle cost of the system

Warranty

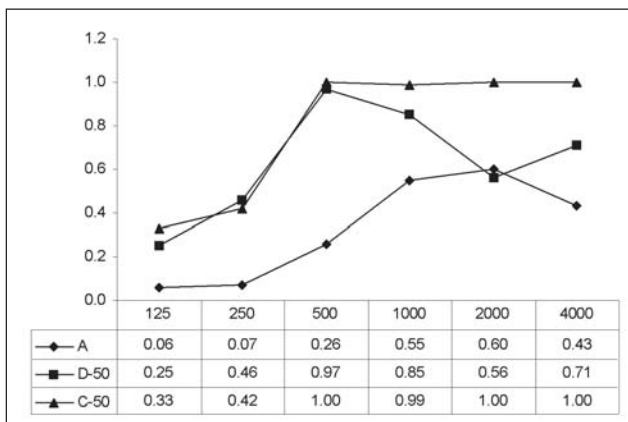
10 years AnutoneSurety - limited warranty - on the assembled system when installed by Struct's AnutoneScaff to Ekcel's specifications and maintained under the AnutoneSentry AMC programme.

Site Considerations

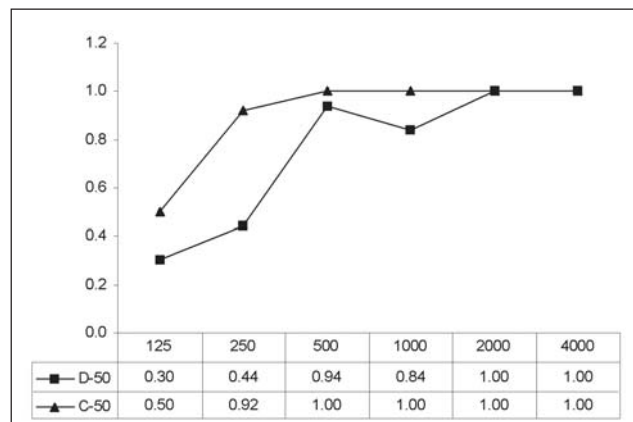
- Cartons of Soak Plane must be stored on a flat, dry surface.
- They must not come in contact with water.
- Wall surfaces must be devoid of moisture prior to installation.
- The final act of panel installation must be performed only when all other works are completed and site has attained occupancy conditions.
- Trained and skilled technicians must install Soak Plane. 'Soft' and 'clean' handling is a must.
- For wall edges and corners where cut panels are required, the fabric can be peeled back and cut to size, the base panel cut to size and fabric bonded again with rubber-based adhesives.
- Panels can be vacuumed post-installation.

Acoustical Parameters

Sound Absorption Coefficient as per ISO 354



Soak ND4 NSS Plane - 25mm thick



Soak ND4 NSS Plan - 50mm thick

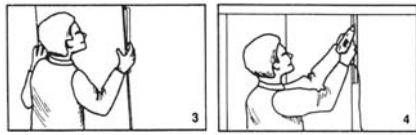
NOTE - Anutone's Totel™ has the capability, expertise and own infrastructure to perform custom acoustics tests for given design as per ISO 354 at its AnutoneScanslab and provide acoustic values of Soak Plane specific to installations.

Installation Drawings



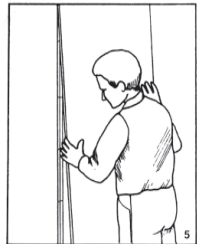
STEP 1 & STEP 2

Mark location of each panel on wall for A-mounting (or on AnutoneProfiles C-System for C or D-mounting), to determine panel usage, position and inside/outside corner details. Install wooden skirting at base of wall for panel support. Make sure it is level. Height of skirting depends on architectural requirements, usually 150 mm.



STEP 3 & STEP 4

Position first panel, using level to assure plumb. Insert first F-spline section into groove on panel and against wall. Start at top of panel. Spline should be suitably attached to the wall so that it is firmly in place. Add splines down to rest of the panel till the wooden skirting, making sure plumb is maintained.

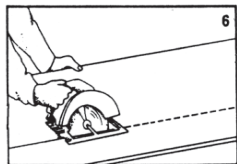


STEP 5

Position next panel on wall and slide it against first F-spline until they fully engage in the groove. Fix F-spline to opposite edge groove and to

wall as done with first panel. Continue procedure along wall length, checking plumb of each panel.

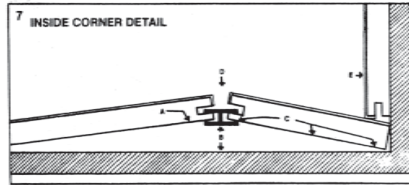
NOTE: If cut Soak Plane panel is needed to fill inside corner, do not fasten the last row of F-splines to wall.



STEP 6

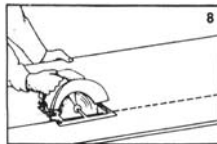
Measure space from last panel to corner at top, middle and bottom of area.

Transfer these measurements to the face of the panel. Place panel, fabric side up, on smooth and clean surface and using hand or power saw, cut through fabric and panel so that cut edge is the edge that will fit in the corner.



STEP 7

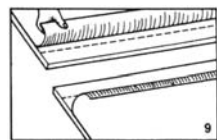
Apply adhesive to back of last full panel along open F-spline that will be used in that edge, (See B), and to back of cut panel, (See C). Insert the last attached F-spline. Insert F-spline with adhesive into other groove of last full panel. Insert groove of cut panel into the F-spline and insert cut edge into corner. Then apply pressure at joint between panel (See D), until contact is made with the wall. Hold until adhesive sets. Secure cut corner panel to wall with four finishing nails along outside edge of panel at corner. Space them evenly and drive at 45° angle. A new, full panel should be used as the first panel after the corner (See E). But it against front of cut corner panel after putting adhesive along the length of the panel's thick edge. Continue down this wall (Steps #1 through #5).



STEP 8

Measure space from last full panel to corner at top, middle and bottom.

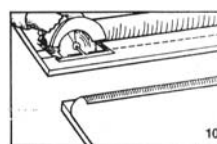
Add 50mm, to these measurements. Transcribe these measurements to face of panel to be cut. Place panel, fabric side up, on smooth and clean surface, using hand or power saw, cut through the fabric and panel along the marked line.



STEP 9

Gently peel fabric back 75mm from cut edges of both panel pieces. Draw a line on the Soak Plane panels of both pieces 50mm back from the cut edge, and parallel to the cut edge along the length of the panel.

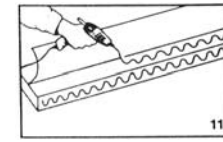
STEP 10



Anutone panel on both pieces. Remove any loose fibres that may remain.

STEP 11

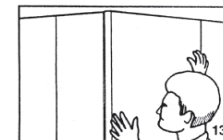
On one piece, apply hot melt glue to the panel along the 25mm wide exposed top where the material was peeled back, along the cut edge, and along a 25mm wide strip on the back next to the cut edge. Wrap fabric back over face, around edge, and over back so it adheres, Stretch tight, eliminating any folds or creases. Repeat procedure with other panel piece.



STEP 12

On panel cut to fit corner width, apply adhesive to Soak Plane panel

along the length of the panel, just beyond fabric along the cut edge. Place panel on wall and slip it into the last installed F-spline. Hold until adhesive sets.

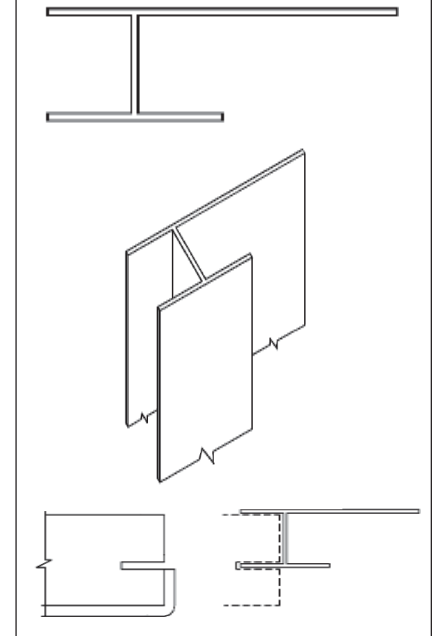


STEP 13

Apply adhesive in same manner to other panel piece. Position it on wall

around corner so it completely overlaps end of other corner panel. Slip F-spline into the groove in the opposite edge and continue downward in the same manner as previously.

AnutoneProfiles F-Spline



SoundSites

For the latest update on our projects list please visit www.anutone.com/projects or contact AnutoneSquad.

Installation Guidelines

Panelling (C50 mounting) –

Scope - Knowledge protocol performing to acoustical requirements conforming to international standards consisting of Design, Supply, Build scope of Ekcel™ Soak Plane as designed, manufactured and installed, per approved drawings and specifications, by Anutone Acoustics Limited, an ISO 9001 2000 company.

Framework - AnutoneProfiles™ C-System, consisting of Cross Channels fixed at 600mm centres, using AnutoneStitch. Channels must be parallelly installed in relation to the long edges of the panels. The AnutoneProfiles F-system is installed perpendicular to the F-Spine system.

Acoustical infill - Synth PF 10x50 friction-fitted between the AnutoneProfiles.

Acoustical panels - Density ND4 NSS; Size 600x1200mm; Thickness 20 mm installed on the AnutoneProfiles F-Spline.

Joints and finish - Pencil radius long edges, staggered or regular short edges, butt-joined.

Installation Pictures



Custom Methodology

The installation of Soak Plane can be custom-designed to specific needs in accordance with knowledge protocols by Totel™, supplied by Ekcel™ and installed by Struct to suit specific or special project requirements. The methodology includes the entire value-chain - site evaluation, criteria definition, noise spectra capture, design optimisation, system specs, systems engineering & integration, project management, acoustic testing & site validation. Anutone® strongly recommends the professional services of AnutoneSeer™ - qualified and independent acoustical consultants - to decode the Selec programme.

Ordering Information

Acoustical application, Installation application, Density, Dimensions, Edge profile, Substrate options, Core options, Fabric shade, Framework, Hardware, Acoustic infill, Packing.

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makes you feel good™

ANUTONE WALLS & CEILINGS

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