Soak Cord

CORDED FABRIC FINISHED SYSTEM

www.anutone.com/soakcord.htm

Release # 1.2 - February 2011

anutone® makes you feel good™

Key Attributes

Soak Cord performs the twin function of visual aesthetics and acoustic performance!

Soak Cord features ribbed non-wovens that offers contemporary wall designs for classy interiors. Soak Cord adds to the winning portfolio of elegance, economy and ease of installation that brings –

- productivity and privacy to modern workplaces
- demanding performance to special venues like multiplexes and studios.

Added feature is high impact resistance, making AnutoneSoak Cord rugged and durable for any use.

Typical Applications

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

Aesthetics

Fabric walls with neat panel joint lines, vertically and horizontally, for a true panel effect. Soak Cord features ribbings that can be installed horizontally or vertically. The edge profile is pencil radius due to fabric wrap.

Visual Variants

The visual variants of Soak Cord are realised from orientation of the corded ribbings and/or the fabric colours. The fabric colours can be installed in singles or double combos.

Features

- Densities

400	500	kgs/m³
ND4	VDH™	Code

- Sizes - Width - 600mm; Length - 1200, 2400 mm
- Thickness - 20 / 25/ 30 / 40 / 50mm
- Edge profiles - Square with long edges kerfed for Spline H-system
- 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 is possible.
- Base panel conforms to EN 13168 2001.

SoundSsories

Mounting	System accessories
A	Spline H-system
D25	A + Strut CC25
D50	A + Strut CC50
C25	A + Strut CC25 + Synth PF 5x25 or 10x25
C50	A + Strut CC50 + Synth PF 5x50 or 10x50

Current fabric colours include

- Dark Green
- Rainy Cloud
- Black Granite
- Red Wine
- Marine Blue
- Peacock Blue
- Cola Brown
- Golden Brown

Please check the weblink for the latest range.

Design Considerations

- The corded ribbings are oriented to the longer edges of the panels and the latter can be installed horizontally or vertically to make a space look visually longer or taller.
- Dado or chair rails and other transition reveals must be introduced early in the design.
- Indicated panel thickness is for base panel only - 4 mm of fabric thickness and 2 mm of Spline H-System should be added to overall Soak Cord thickness. Hence, 20 mm panel means 26 mm system thickness.
- Panels should not touch the floor but rest on a wooden skirting which may be repeated at the wall-ceiling junction.

Accessibility

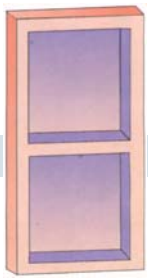
Installation of Soak Cord with Splines H-System ensure easy dismantling and reinstallation of panels for accessiblity to the surface or void behind.

Product considerations

Ribbings depth and true form are subject to fabric quality. Fabric shade may vary from batch to batch due to limitations in dye technology.

Environmental Impact

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



Soak VDH
Panel rear with AutoAir

Technical Variants

Anutone's AcoustCombi technology - variable sound absorption - is realised from technical variants –

- Soak NSS Cord – natural surface for mid and high frequency sound absorption
- Soak Burl Cord – blinded surface suitable for low-frequency sound absorption

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

- Soak Septum Cord
- Soak Septum Cord
- Soak MultiSeptum Cord
- Soak MultiSeptum Cord

Soak AcoustCombi -
Appears same but works multi-mode!

Tech Performance

The Cord fabric and F-Spline are FR grade. For base panel -

- Non-combustibility - Mass loss 53% @ 750°C - 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

Logistics

Thk (mm)	Nos./carton	Carton wt (kgs)	Carton ht (mm)
20	06	44	165
25	06	54	175
30	05	59	175
40	04	60	175
50	03	51	165

Note - Carton size 1216 x 616 mm. Carton weight is for Soak NSS Cord only. Soak Burl Cord will be heavier. Soak Cord is always packed in pairs. Minimum order quantity - 1 carton.

Economics

Soak NSS Cord 20mm on Splines F-System is techno-commercially economical for the lifecycle cost of the system.

Anutone's VDH technology - Variable Density Hybrid - is available in Soak Cord. This allows for space-saving A-mounting of panels but with AutoAir - an automatic airgap for an acoustic infill of Synth PF for additional sound absorption. Panel size is restricted to 600x1200x25mm only. Applications include offices, home theatres where more sound absorption than that provided by regular A-mounted Soak NSS Cord is needed.

System Specification

Panelling Soak VDH Cord - A mounting

Scope – Selec protocol performing to acoustical requirements conforming to international standards consisting of Design, Supply, Build of AnutoneSoak VDH Cord as designed, manufactured and installed, per approved drawings and specifications, by Anutone Acoustics Limited, an ISO 9001 2000 company.

Framework – Splines H-System is installed parallel to the long edges of the Soak Rib with suitable mechanical fasteners that are anchored firmly to the base surface.

Infill - Synth PF 10x10 is friction-fitted inside the Soak VDH.

Acoustical Panels – Soak VDH Cord; Colour _____ & _____ ; Size 600x1200mm; Thickness 25 mm. Joints and finish – Pencil radius edges, butt-joined.

Warranty

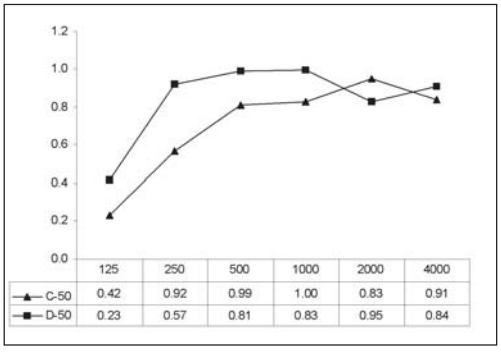
10 years AnutoneSurety - limited warranty - on the assembled system when installed by Struct's AnutoneScaff to Ekcel's specifications and maintained under the AnutoneSentry AMC programme.

Site Considerations

- Cartons of Soak Cord 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 Cord. '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

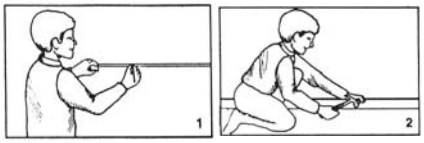
Sound Absorption Coefficient as per ISO 354



Soak Cord - 25mm thick

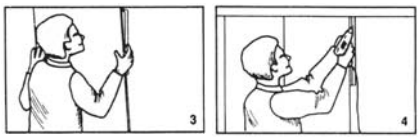
NOTE - Anutone's Totel™ has the capability, expertise and own infrastructure to perform custom acoustics tests for given design as per ISO 354 at its AnutoneScans lab and provide acoustic values of AnutoneSoak Cord specific to installations.

Installation Drawings



STEP 1 & STEP 2

Mark location of each panel on wall for A-mounting (or on Strut 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.



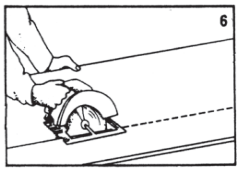
STEP 3 & STEP 4

Position first panel, using level to assure plumb. Insert first H-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

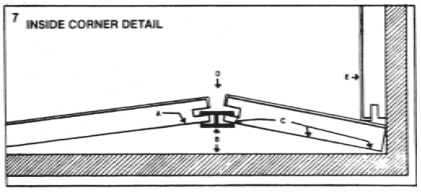
Position next panel on wall and slide it against first H-spline until they fully engage in the groove. Fix H-spline to opposite edge groove and to wall as done with first panel. Continue procedure along wall length, checking plumb of each panel.

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



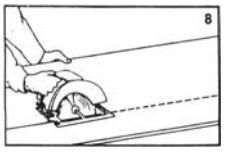
STEP 6

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.



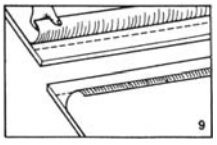
STEP 7

Apply adhesive to back of last full panel along open H-spline that will be used in that edge, (See B), and to back of cut panel, (See C). Insert the last attached H-spline. Insert H-spline with adhesive into other groove of last full panel. Insert groove of cut panel into the H-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 45^0 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

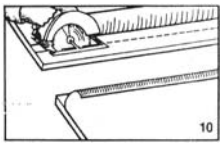
Measure space from last full panel to corner at top, middle and bottom. Add 50mm, to these measurements. Transcribe these measurements to face of panel to be cut. Place panel, fabric side up, on smooth and clean surface, using hand or power saw, cut through the fabric and panel along the marked line.



STEP 9

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

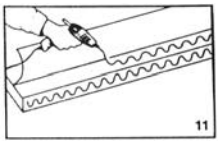
STEP 10



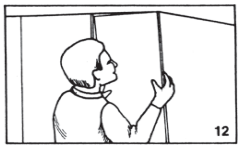
Making sure the fabric is folded back out of the way, cut off this 50mm wide strip of the base panel on both pieces. Remove any loose fibres that may remain.

STEP 11

On one piece, apply hot melt glue to the panel

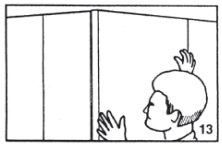


along the 25mm wide exposed top where the material was peeled back, along the cut edge, and along a 25mm wide strip on the back next to the cut edge. Wrap fabric back over face, around edge, and over back so it adheres, Stretch tight, eliminating any folds or creases. Repeat procedure with other panel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



STEP 12

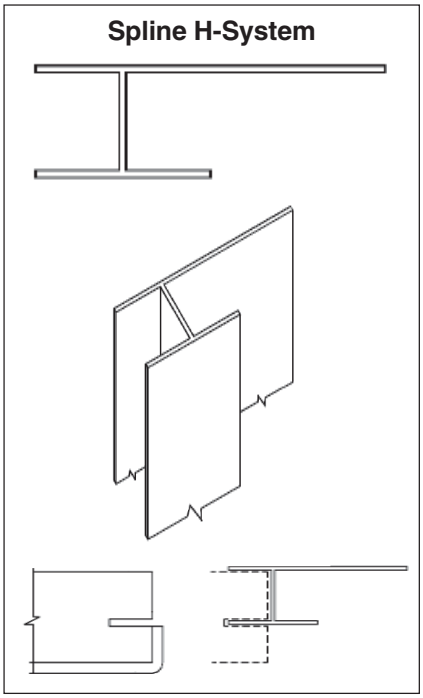
On panel cut to fit corner width, apply adhesive to Soak Cord panel along the length of the panel, just beyond fabric along the cut edge. Place panel on wall and slip it into the last installed H-spline. Hold until adhesive sets.



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 H-spline into the groove in the opposite edge and continue downward in the same manner as previously.

Spline H-System



Installation Guidelines

Panelling (C25 mounting)

Scope – Selec protocol performing to acoustical requirements conforming to international standards consisting of Design, Supply, Build of Soak Cord as designed, manufactured and installed, per approved drawings and specifications, by Anutone Acoustics Limited, an ISO 9001 2000 company.

Framework – Strut CC25 fixed at 600mm centres. CC25 must be parallelly installed in relation to the long edges of the panels. The Splines H-System is installed perpendicular to the Strut CC25.

Infill - Synth PF 10x25 is friction-fitted between the Strut CC25 and lightly adhered with Stick S7.

Acoustical Panels – Soak ND4 NSS Cord; Colour _____ & _____ ; Size 600x1200mm; Thickness 20 mm.

Joints and finish – Pencil radius edges, butt-joined.

Installation Pictures

Custom Methodology

The installation of Soak Cord can be custom-designed to specific needs 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 SoundSeer™ - qualified and independent acoustical consultants - to decode the SoundSelec™ programme.

Ordering Information

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

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makes you feel good™

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