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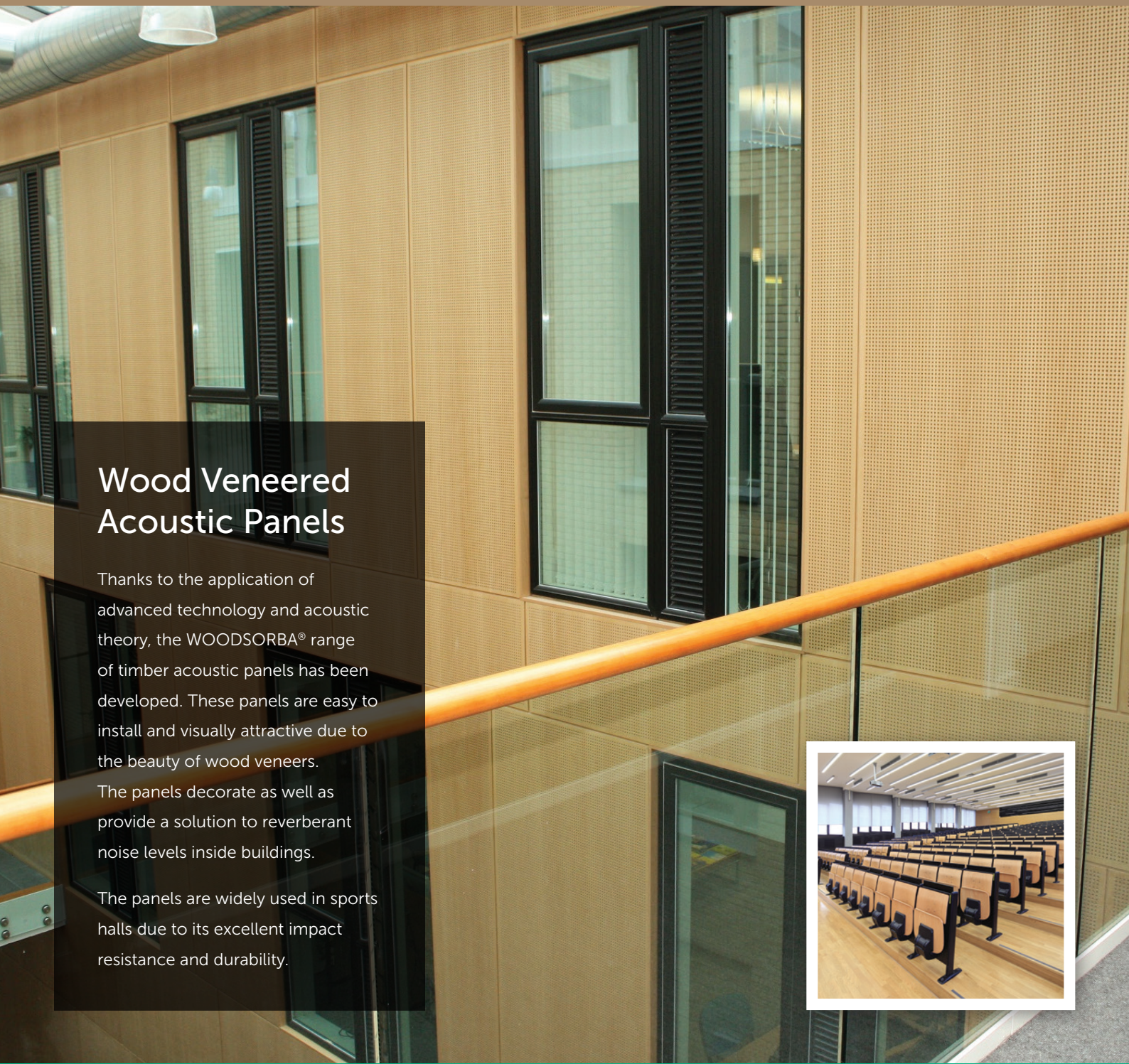
Soundsorba Ltd.
May 2018

SOUNDSORBA®
ACOUSTIC PRODUCTS

WOODSORBA®



Wood Veneered Acoustic Panels

Thanks to the application of advanced technology and acoustic theory, the WOODSORBA® range of timber acoustic panels has been developed. These panels are easy to install and visually attractive due to the beauty of wood veneers.
The panels decorate as well as provide a solution to reverberant noise levels inside buildings.

The panels are widely used in sports halls due to its excellent impact resistance and durability.

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WOODSORBA® Wood Veneered Acoustic Panel

Since wood is a product of nature, the WOODSORBA® range of acoustic panels creates a naturally aesthetic solution to noise control. The unique features of the wood panels give a warm organic appearance offering a finish to compliment every area.

Surface choices include real wood veneers, wood print melamine and paint finished timber acoustic panels.

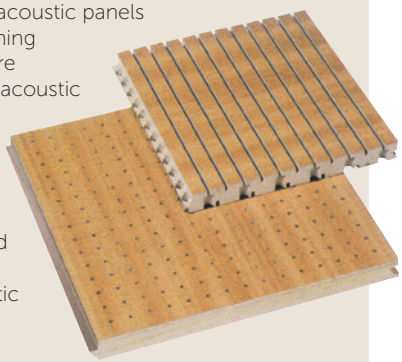
APPLICATION

WOODSORBA® panels are suitable for almost every application including use in schools, studios, reception areas, lecture theatres, office and commercial buildings. WOODSORBA® panels are exceptionally durable and abuse resistant making them particularly appropriate for areas that may require a high degree of impact resistance such as sports and recreation halls, police interview rooms and factories and workshops.

Building Bulletin 93 (BB93) Regulations require mandatory acoustic absorption in school teaching areas as well as hallways and stairs in residential flats. These are achieved by the use of appropriate WOODSORBA® acoustic panels.

Sports England requirements for noise reverberation time in sports halls are also met by fitting WOODSORBA® acoustic panels.

MANUFACTURE



WOODSORBA® acoustic panels consist of a finishing surface, base core board and black acoustic fleece backing. The base core board is an 18mm thick MDF sheet with a finish laminated to its front face and black acoustic fleece adhered to its rear face. WOODSORBA® panels are manufactured with a tongue and groove joint. Thanks to the precision of the tongue and groove a perfect finish is achieved when WOODSORBA® is installed.

For overhead ceiling applications, 293mm width panels are recommended for ease of handling and fixing.

Tolerances +/- 3mm. Other sizes are available upon request.

STANDARD NOMINAL SIZES

Length (mm)	Width (mm)
2400	197 / 293 / 517
1200	197 / 293 / 517

DESIGN CONSIDERATIONS

WOODSORBA® panels cannot be supplied as curved panels however they can be indexed or stepped around a gentle radius giving the appearance of a slow staggered curve. The radius should be greater than 5m to achieve this.

Sports Hall

Auditorium

SURFACE FINISHES

REAL WOOD VENEERS

These acoustic panels are faced with natural wood veneers. Due to the natural characteristics of wood, wood veneer colours and grains cannot be guaranteed for consistency or match.

Oak Walnut Beech Maple
Cherry Ash Mahogany Sapele

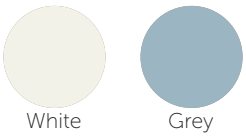
MELAMINE WOOD FINISH

These acoustic panels are faced with melamine paper, which imitates natural wood, but is not composed of real wood. Variations may occur between different production batches.

Oak Walnut Beech Maple
Cherry Ash Mahogany Sapele

PAINTED FINISH

These acoustic panels are spray painted. There may exist some colour differences between the panels on the same batch production due to the supply of paint.



White Grey

Nature dictates that each tree is different and even veneer from different parts of the same tree can vary in colour and grain. Although these natural conditions are what makes wood beautiful, these, together with printing reproduction restraints mean differences may appear between colours printed in this brochure and the actual product.

WOODSORBA® Wood Veneered Acoustic Panel

IMPACT

WOODSORBA® panels are widely used in sports halls due to its excellent impact resistance and durability. WOODSORBA® has been tested against ball throwing according to European DIN standards for sports halls for gymnastics and games and multipurpose use.

WEIGHT

Nominal 10kg/m²

CLEANING

Easy to maintain and can be cleaned with non-abrasive cleaners, which are suitable for wood veneers.

COLOURS

Available with real wood veneer, melamine or painted surfaces.

See left page for details

FIRE RESISTANCE

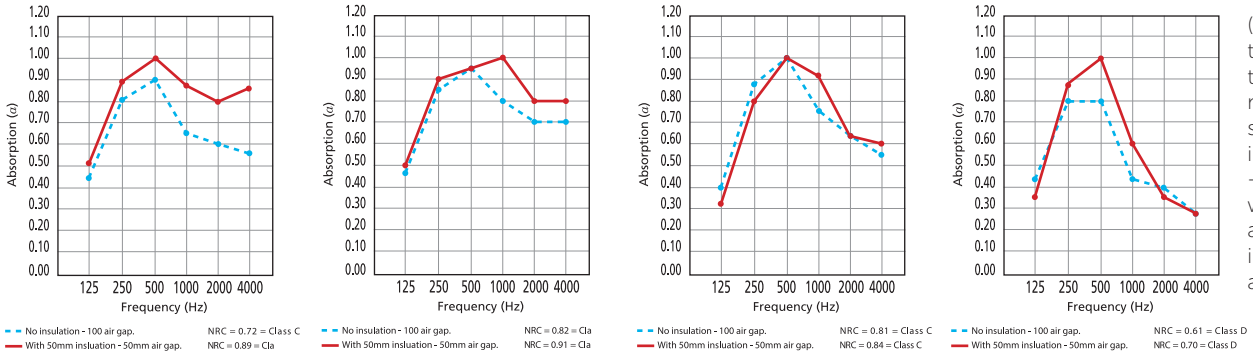
WOODSORBA® standard panels meet BS476 Class 3 fire rating. However Class 1 fire rated panels can be supplied on request.

Also Class O fire rating can be achieved for real wood veneered panels. Real wood veneered panels (but not the laminate or the painted finishes) can be treated on site by others with proprietary intumescent varnish onto un-lacquered surface.

It is important that if you need to upgrade the fire rating to Class O by applying the intumescent varnish then please advise us at the order stage so that we can omit the lacquer finish to allow the intumescent varnish to soak into the wood veneer face when it is applied on site.

ACOUSTIC PERFORMANCE

Acoustic Absorption								
Frequency (Hz)	125	250	500	1000	2000	4000	NRC	Class
Woodsorba® Version A - 32mm slats, with no insulation backing	0.15	0.62	0.90	0.78	0.48	0.52	0.69	C
Woodsorba® Version A - 32mm slats, with insulation backing	0.34	0.82	0.90	0.72	0.54	0.58	0.75	B
Woodsorba® Version B - 16mm slats, with no insulation backing	0.12	0.32	0.68	0.95	0.60	0.68	0.66	C
Woodsorba® Version B - 16mm slats, with insulation backing	0.40	0.50	0.85	0.95	0.70	0.70	0.88	B
Woodsorba® Version C - 6mm slats, with no insulation backing	0.20	0.44	0.93	0.92	0.55	0.55	0.70	C
Woodsorba® Version C - 6mm slats, with insulation backing	0.40	0.80	1.50	0.70	0.50	0.25	0.88	C
Woodsorba® Version D - 3mm slats, with no insulation backing	0.20	0.52	1.04	0.54	0.28	0.20	0.50	D
Woodsorba® Version D - 3mm slats, with insulation backing	0.30	0.88	1.00	0.60	0.35	0.27	0.70	D



(Insulation tested is 50mm thick, 50kg/m3 density. A small difference in density (eg. +/- 10kg/m3) will not make a difference in the overall absorption).

FACE PATTERNS

There are two standard face patterns for WOODSORBA®. One pattern is made up of a series of slats and the other pattern is made up of a series of round holes. Other face patterns are available upon request. Each panel has a machined tongue down one long edge and a machined groove down the other long edge. Each end is square edged.

SLATTED PANELS

These have longitudinal grooves, 3mm wide, machined along the length of the panel. The machined slots are available in two versions:

Version A has slots machined at every 32mm resulting in each slat being 29mm wide.

Version B has slots machined at every 16mm resulting in each slat being 13mm wide.

ROUND HOLED PANELS

These have circular holes machined over the face of the panel. The round holed panels are available in three versions:

Version C has 6mm diameter holes.

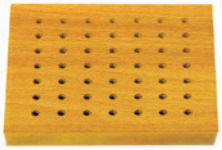
Version D has 3mm diameter holes.

The centre-to-centre distance between the holes is 16mm.

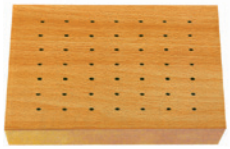
Version A - 32mm

Version B - 16mm

Version C - 6mm



Version D - 3mm



WOODSORBA® Wood Veneered Acoustic Panel

INSTALLATION GUIDE

WOODSORBA® is a natural wood product. When acoustic panels are stored in places where they will not be used for immediate installation, they must be sealed in airproof and moisture proof condition at room temperature as wood based materials are susceptible to moisture.

WOODSORBA® panels are installation friendly. They have one long edge, which has a machined tongue, and the other long edge has a machined groove. The panels are fitted by mating the tongued edge to the grooved edge resulting in a seamless run of panelling.

The installation of acoustic panels should be carried out in a sequence from the left to the right, from upside to downside. The panels are cut to fit on site. Traditional woodworking tools are suitable for cutting the panels. If panels are cut using a fine tooth table saw the panels should be cut face up to avoid scratching and at a much slower speed to avoid any tear-out or chipping.

A black acoustic fleece is laminated to the rear face of the panels.

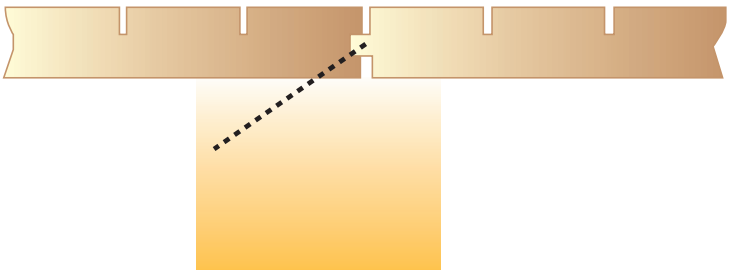
It is recommended to paint the backgrounds at the points where the panels join to avoid any potential light variations.

The panels are fixed using nails, staples or screws via the tongue and groove joint on to pre-installed timber battens (normally 50 x 50mm) on the walls. The timber battens should be spaced no more than 300mm apart.

We recommend a test installation to be carried out to ensure that everything is satisfactory before proceeding with the full installation.

Panels should only be handled wearing clean, lightweight white gloves during installation to avoid soiling the panels.

Batten Fixing



White painted Woodsorba Panels in Tennis Centre

Real wood veneer Woodsorba panels in lecture theatre

Screw fixing

Panels on to batons

GUIDE SPECIFICATION

A. General

1. All WOODSORBA® panels should be installed in accordance with the manufacturers recommendations.
2. All necessary hardware and accessories for a complete job installation are to be furnished by the contractor.
3. Installation of panels should not begin until all wet work, such as plastering, concrete etc. is completely dry. The panels are designed for storage and installation under standard occupancy conditions from 10°C to 20°C and not more than 75% R.H in an enclosed building.
4. The contractor shall be responsible for the examination and acceptance of all surfaces and conditions prior to the acoustical panel installation.
5. The panels should be acclimatised to the room where they are to be installed for 48 hours prior as they are natural wood products and are therefore susceptible to moisture.

B. Product

1. Install WOODSORBA® panels using nails, staples or screws into prefixed timber battens on the walls via the tongue and groove joint. The timber battens should be spaced at a minimum of 300mm distance between each other.

   Panel size.....mm length x .....mm width.
2. WOODSORBA® panels to be finished in.....Version.....

C. Supplier

1. WOODSORBA® Wood Veneered Acoustic Panels as supplied by Soundsorba Ltd.
   27-29 Desborough Street, High Wycombe, Bucks HP11 2LZ UK
   TEL: +44 (0) 1494 536888 FAX: +44 (0) 1494 536818
   EMAIL: info@soundsorba.com www.soundsorba.com

WOODSORBA® Wood Veneered Acoustic Panels:

Prices and Conditions of Sale

Our standard terms and conditions (copy available on request) apply to all orders. Since Soundsorba Limited exercise no control over the use of its products, no legal responsibility is accepted for any application of their products. We reserve the right to change specifications without notice as our policy is one of continuous improvement.

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