

SuperPhon[®] Sound Absorption & Reverberation Control



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The SuperPhon[®] range of
Sound Absorption Solutions



CMSDANSKIN
ACOUSTICS

The beauty of the SuperPhon® range

SuperPhon® Sound Absorption & Reverberation Control

The SuperPhon® Range provides an effective means of controlling reverberation and reflected sound in rooms. It provides an ideal solution for environments and workplaces where noise can be an issue. For example, SuperPhon® is used widely in recording studios, sports halls, schools and call centres.

Features and benefits of our fabrics

Acoustic Transparency

All our standard panel fabric is permeable, so it allows sound to pass through it and into the absorptive material of the SuperPhon® panel itself.

Fire Resistance

All of our standard panel fabrics are 'Class 1' for the Surface Spread of Flame in accordance with BS 476-7. SuperPhon® Core Board is rated 'Class 0'.

'Class 0' covering fabrics are also available upon request.

Panel Tolerances

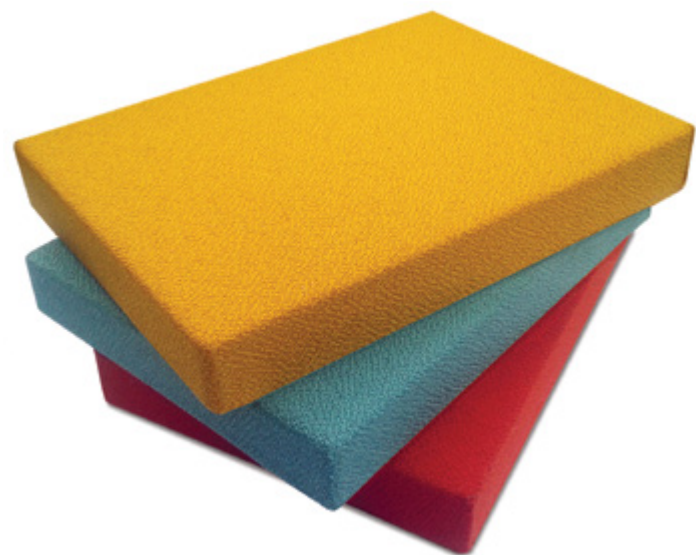
Standard panel tolerances (i.e. width and length +/-2mm).

Bespoke Design

SuperPhon® is available in bespoke designs such as corporate identity, commercial or decorative designs and murals. Designs can be worked across multiple, adjoining panels.

Easy Maintenance

See our 'Installation Guidelines' for a detailed breakdown of how to maintain and clean our fabric finishes.



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Our sound absorption and reverberation control success

Our customer focused approach has successfully contributed to a diverse and prestigious set of sound absorption & reverberation control projects.



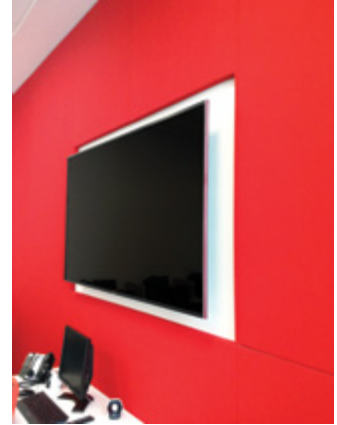
Teesside University Library
SuperPhon®
Suspended Absorbers



Moneypenny Call Centre
SuperPhon®
Ceiling Panels



SSE Hydro Arena
SuperPhon®
High Impact Wall Panels



Moneypenny Call Centre
SuperPhon®
Wall Panels



Moneypenny Call Centre
SuperPhon®
Full Wall Panel System



Redland Green School
SuperPhon®
Partial Wall Panel System



Liverpool Academy
SuperPhon®
Suspended Absorbers



Droylsden Academy
SuperPhon®
Wall Panels

SuperPhon® Ceiling & Wall Panels

Full or Partial Coverage



SuperPhon® is a flexible solution that can be tailored to any sort of environment. It can provide complete or partial wall coverage. The fundamental attraction of SuperPhon® is its adaptability.

With a wide selection of colour finishes and installation options, the SuperPhon® range provides an aesthetically pleasing reverberation control solution for a range of applications.

Design flexibility

The SuperPhon® range is available in standard sizes and thicknesses, and bespoke panels and absorbers of a specific size, thickness, shape or fabric facing can be readily manufactured. As well as the broad offering of standard fabric colours, panels can be colour matched to any chosen fabric.

Bespoke installation options

SuperPhon® systems can be installed using a range of permanent, non-permanent, visible or non-visible fixings.

See page 11 for more information.



Kaiser Chiefs rehearsing and recording at the Old Chapel music studio

Suitable applications for wall mounted SuperPhon®

- Recording/rehearsal studios
- Audiology rooms
- Commercial premises
- Schools
- Offices
- Churches
- Halls
- Reception areas
- Cinemas and theatres
- Call centres
- Conference rooms
- Public entertainment facilities

Benefits

- Provides up to Class 'A' acoustic performance
- 77 colours available over two ranges
- Wipe clean finish available
- Bespoke manufacture
- Complete range of fixing systems
- Free reverberation calculation service
- Installation service can be provided through approved contractors
- Full technical and on site support
- Fabrics available to meet Class 'O' fire performance

Physical information

| SUPERPHON® WALL PANELS | |
|---|--|
| Thickness | 25mm, 40mm & 50mm |
| Max single panel size (Other sizes available on request) | 3000mm x 1200mm Subject to fabric limitations |
| Weights | 3.25kg/m ² for 25mm panel 4.00kg/m ² for 40mm panel 5.00kg/m ² for 50mm panel |

For technical information and installation details, please see our Technical Data Sheets.

SuperPhon® Patented High Impact Wall Panels

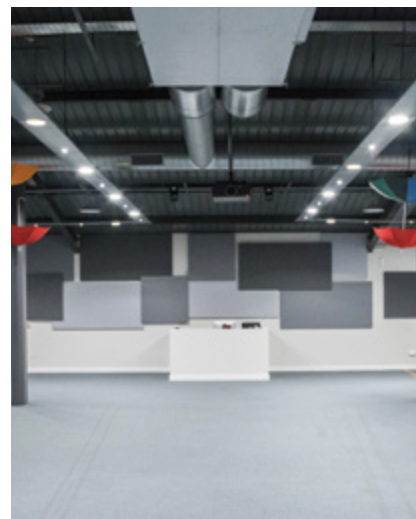
Absorption & Impact Resistance



SuperPhon® High Impact Panels have been specifically developed to provide attractive reverberation solutions for areas of high traffic or where surface impact is expected.

As a cost effective and highly acoustically absorbent system, with a patented high impact resistant layer, SuperPhon® provides superior levels of sound absorption due to its unique construction that incorporates advanced micro swirl air cells within the panel that significantly enhance the sound absorption, particularly at the low end of the frequency spectrum. Therefore when the performance levels are put into the room calculator, less panel area is required compared to most other sound absorption panels on the market.

These highly robust panels are manufactured to order and finished with acoustic woven fabric to the front face and edges to deliver a high quality, aesthetic finish.



Applicable Patent

Great Britain No. GB2550373A "a sound absorbing impact resistant laminate"

SuperPhon® Patented High Impact Panels combine effective absorption with impact resistance, making them ideal for:

- Schools
- Leisure centres
- Sports Halls
- Exhibition centres
- Offices
- Gymnasiums

Benefits

- Fully bespoke acoustic solution
- Impact resistant
- Provides up to Class 'A' acoustic performance
- Standard coverings have Class '1' fire performance (Class 'O' available upon request)
- Certified by CST Global Centre for Sports Technology
- Approved by ISSS, WSF and ITF
- Fitted solid to wall or 25/50mm air gap available

For technical information and installation details, please see our Technical Data Sheets.

Physical information

| SUPERPHON® HIGH IMPACT WALL PANELS | |
|---|--|
| Thickness | 25mm, 40mm & 50mm |
| Max single panel size (Other sizes available on request) | 1200mm x 3000mm Subject to fabric limitations |

Accreditation

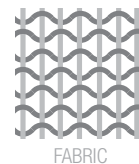
SuperPhon® High Impact panels have been tested and certified by the CST Global Centre for Sports Technology, a UKAS approved test house (also approved by the ISSS, World Squash Federation and ITF). It passed to the highest measurable degree and is certified to EN 13964 for impacts

in Sports Halls and Gymnasiums for multi-purpose use, by balls including footballs and hockey balls.

SuperPhon® High Impact panels are also certified to EN 15312 for repeated impacts by footballs and hockey balls (1000 impacts at 50Kg).

SuperPhon® Wall Panels

Active



SuperPhon® Active is designed to provide an attractive reverberation control solution and can be used in areas of high traffic or where surface impact is expected.

As a cost effective and highly acoustically absorbent panel system, SuperPhon® Active provides superior levels of sound absorption due to its unique patented construction that incorporates advanced micro swirl air cells within the panel that significantly enhance the sound absorption, particularly at the low end of the frequency spectrum. This extra performance means that when the performance levels are put into the room calculator less panel area is required compared to most other sound absorption panels on the market.

Combined with the highest levels of impact resistance the panel system out performs in several key areas. The SuperPhon® Active system is quick and easy to install and comprises of sound absorbent, non-combustible glass fibre board with an impact resistant front faced final fabric finish, framed in a powder coated aluminium channel and grid. These highly robust panels are manufactured in standard sizes and are cut to fit the project on site. The panels are finished with an acoustic woven fabric to deliver an aesthetic look.



Suitable applications for SuperPhon® Active

- Partitions
- Screens
- Wall coverings
- Large multiple panels

Benefits

- Fully bespoke acoustic solution
- Impact resistant to the highest level
- Class 'A' acoustic performance
- When faced in specially treated fabric, SuperPhon® panels comply with fire tests BS 476-6 & BS 476-7
- Class 'O' fire performance
- Easy installation, cut to size on site
- Certified by CST Global Centre for Sports Technology
- Approved by ISSS, WSF and ITF

For technical information and installation details, please see our Technical Data Sheets.

Physical information

| SUPERPHON® ACTIVE | |
|---|--|
| Thickness | 40mm |
| Max single panel size (Other sizes available on request) | 2300mm x 1200mm Subject to fabric limitations |

Accreditation

SuperPhon® Active has been tested and certified by the CST Global Centre for Sports Technology, a UKAS approved test house (also approved by the ISSS, World Squash Federation and ITF). It passed to the highest measurable degree and is certified to EN 13964 for impacts in Sports Halls and

Gymnasiums for multi-purpose use, by balls including footballs and hockey balls.

SuperPhon® Active is also certified to EN 15312 for repeated impacts by footballs and hockey balls (1000 impacts at 50Kg).

SuperPhon® Suspended Absorbers

Baffles / Rafts / Cubes



Suitable for environments with continual activity, such as sports halls or busy workplaces, where it may not be appropriate to apply sound absorption solutions at wall levels.

SuperPhon® Baffles, Rafts and Cubes provide an effective means of controlling reverberation and reflected sound in rooms. Suspended absorbers are the ideal solution for recording studios, sports halls, schools and call centres.

Design flexibility

SuperPhon® Baffles are available in standard sizes and thicknesses, and bespoke panels and absorbers of a specific size, thickness, shape or fabric facing can be readily manufactured. As well as the broad offering of standard fabric colours, panels can be colour matched to any chosen fabric.

The range of suspended absorbers are manufactured from either glass fibre or foam cores, creating a wide range of solutions that can be suspended safely and discreetly, using a range of bespoke suspension methods. The design of absorbers is completely flexible allowing for the creation of a striking design feature.



Suitable applications for SuperPhon® Suspended Absorbers

- Gymsnasiums & sports halls
- Recording studios
- Schools
- Production halls & industrial facilities
- Offices
- Call centres
- Event centres
- Atriums

Benefits

- Provides up to Class 'A' acoustic performance
- 77 colours available over two ranges
- Wipe clean finish available
- Bespoke manufacture
- Complete range of fixing systems
- Free reverberation calculation service
- Installation service can be provided through approved contractors
- Full technical and on site support
- Fabrics available to meet Class 'O' fire performance

For technical information and installation details, please see our Technical Data Sheets.

Physical information

| SUPERPHON® SUSPENDED ABSORBERS - BAFFLES / RAFTS / CUBES | | |
|--|--|--|
| Thickness | 25mm, 40mm & 50mm | |
| Max single panel size | 1200mm x 3000mm Subject to fabric limitations | |
| Standard panel sizes (Other sizes available on request) | 1200mm x 300mm 1200mm x 450mm 1200mm x 600mm | 1800mm x 300mm 1800mm x 450mm 1800mm x 600mm |
| Standard cube sizes (Other sizes available on request) | 400mm ³ and 600mm ³ | |
| Weights | 3.25kg/m ² for 25mm panel 4.00kg/m ² for 40mm panel 5.00kg/m ² for 50mm panel | |

SuperPhon® Bespoke Solutions

Photophon



For a really creative aesthetic feel, Photophon gives you the flexibility to create any of the SuperPhon® panels to a design that suits you. Using our special fabric, we can create solutions using your own choice of artwork.

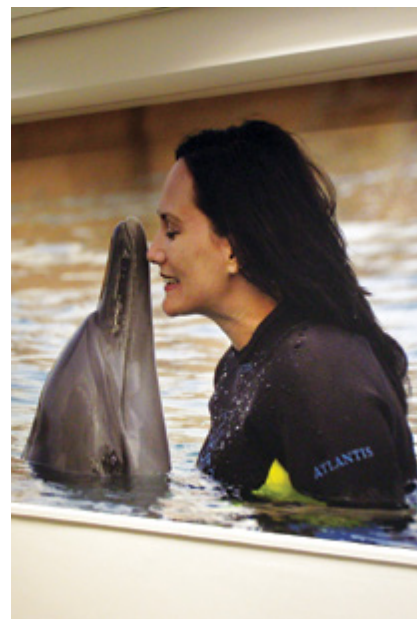
It's your choice! Supply your high resolution images and let us manufacture bespoke and creative acoustic panels or we can create the finished artwork for you. There's absolutely no compromise on the acoustic performance.

Bespoke installation options

SuperPhon® systems can be installed using a range of permanent, non-permanent, visible or non-visible fixings.

Fixings include Rotofast anchors or adhesives.

CMS Danskin Acoustics provides installation guidelines with each product.



Suitable applications for SuperPhon® Photophon

- SuperPhon® High Impact Panels
- SuperPhon® Baffles
- SuperPhon® Suspended Ceiling Panels
- SuperPhon® Wall Panels

Benefits

- Unique panels incorporating your images
- Provides up to Class 'A' acoustic performance
- Complete range of fixing systems
- Free reverberation calculation service
- Installation service can be provided through approved contractors
- Full technical and on site support
- Fabrics available to meet Class 'O' fire performance
- Bespoke manufacture

Physical information

| SUPERPHON® PHOTOPHON | |
|---|--|
| Thickness | 25mm, 40mm & 50mm |
| Max single panel size (Other sizes available on request) | 1200mm x 3000mm Subject to fabric limitations Larger pictures are made up with multiple panels. Minimum image requirements: 300dpi high resolution / vector files. |
| Weights | 3.25kg/m ² for 25mm panel 4.00kg/m ² for 40mm panel 5.00kg/m ² for 50mm panel |

For technical information and installation details, please see our Technical Data Sheets.

SuperPhon® Foams

Wall & Ceiling Panels



SuperPhon® foam panels adhere directly to walls and ceilings offering a highly aesthetic and effective reverberation control solution.

Manufactured from lightweight Melamine Foam, the bevel edge tiles are quick and easy to install and require no specialist equipment. Designed for all types of reverberant areas the tiles are particularly suited to schools, recording studios and acoustic enclosures.

Available in white and grey only.



Suitable applications for SuperPhon® Foams

- Schools
- Nurseries
- Conference rooms
- Recording studios
- Acoustic enclosures
- Offices

Benefits

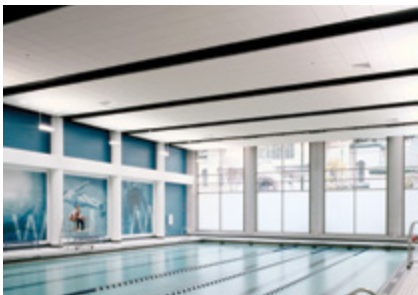
- Reduce reverberation times to improve the listening environment
- A simple solution
- Excellent sound absorption
- Fibre free
- Lightweight and easy to install
- Also suitable for direct adhesion to walls
Please contact CMS Danskin Acoustics for suitable adhesives.

For technical information and installation details, please see our Technical Data Sheets.

Physical information

| SUPERPHON® FOAM PANELS | |
|------------------------|---------------------------------|
| Thickness | 25mm, 40mm, 50mm & 60mm |
| Standard panel sizes | 1200mm x 1200mm & 600mm x 600mm |
| Max panel size | 1500mm x 1200mm |

(Other sizes available on request)



SuperPhon® Wall Panels

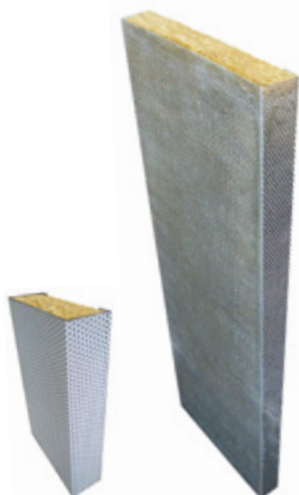
Hardface



SuperPhon® Hardface is a highly sound-absorbent acoustic treatment encased in perforated, painted steel (aluminium also available), making it suitable for high traffic areas and environments where vandalism may be an issue.

Visually, the perforated metal casing conveys a strong contemporary aesthetic feel, ideal for commercial/industrial applications, which can be powder-coated in any RAL colour to complement any interior.

Black or white glass tissue facings or thin acoustically transparent Polyester film can be applied to the acoustic core to enhance the product's appearance and protect from the majority of common substances. Alternatively, coloured fabrics from the Cara or Lucia range can be employed for greater aesthetic flexibility.



Suitable applications for SuperPhon® Hardface

- Prisons
- Industrial areas
- Police stations
- Community centres

Benefits

- Resistant to malicious or accidental damage
- Excellent acoustic and thermal insulation properties
- Fire and temperature resistant
- Chemically inert
- Easy to install
- Vermin and rot resistant
- CFC and HFC free

Physical information

| SUPERPHON® HARDFACE | |
|---|--|
| Standard thickness | 25mm, 50mm, 75mm & 100mm |
| Typical width All widths supplied are bespoke. Min/max quantities on request. | 300mm (50mm, 75mm & 100mm thick) 450mm (50mm & 75mm thick) 600mm (50mm & 75mm thick) |

Non standard slab sizes and thickness are available upon request.

For technical information and installation details, please see our Technical Data Sheets.

Bespoke Installation Solutions

SuperPhon® systems can be installed using a range of permanent, non-permanent, visible or non-visible fixings.

Rotofast Snap-On Anchors

Suitable for High Impact and standard wall panels. Rotofast Snap-On Anchors are a secure and fast solution for acoustic panel installation.



Adhesives

SuperPhon® Panels can be contact spray adhered to a backing surface using STA-PUT spray can adhesive. This is a simple and strong adhesive system for bonding SuperPhon® panels direct to walls and ceilings such as concrete, brickwork, wood, plaster or metal.

Please contact CMS Danskin Acoustics prior to using adhesive.

Baffles, Rafts & Cubes

Specific fixings and installation guidelines are available for SuperPhon® Baffles, Rafts & Cubes.

CMS Danskin Acoustics provides installation guidelines with each product.



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