

# TECHNICAL DATA SHEET



## SUPERPHON<sup>®</sup> HIGH IMPACT WALL PANELS

### PRODUCT DESCRIPTION

SuperPhon<sup>®</sup> High Impact Wall Panels have been specifically developed to provide an attractive reverberation control solution for areas of high traffic or where surface impact is expected. SuperPhon<sup>®</sup> is a cost effective panel system with a patented (GB2550373A) high impact resistant layer which 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. These highly robust panels are manufactured to bespoke order and finished with acoustic woven fabric to the front face and edges to deliver an high quality, aesthetic finish.

### BENEFITS

- Fully bespoke acoustic solution
- Impact resistant
- 77 colours available over two ranges
- Up to Class 'A' acoustic absorption
- Standard coverings have Class '1' fire performance (Class '0' available upon request)
- Manufactured to exact project requirements
- Certified by CST Global Centre for Sports Technology
- Approved by ISSS, WSF and ITF
- A solid to wall or 25mm/50mm air gap can be formed on site



SuperPhon® High Impact	
Thickness (mm)	25mm, 40mm and 50mm
Max panel size	3000 x 1200mm

## TECHNICAL INFORMATION

SuperPhon® High Impact Wall Panels conform to the following testing BS 476-6 & BS476-7

- Core flammability: Class '0'
- Standard covering: Class '1'
- Treated covering: Class '0'

The noise absorption coefficient is expressed as a factor. The more sound that a material absorbs, the higher the noise absorption coefficient.

Panel	Air gap	125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 KHz	NRC	Class
25mm	0mm	0.08	0.33	0.74	1.08	1.08	1.04	0.80	C
40mm	0mm	0.19	0.73	1.14	1.07	1.02	1.07	1.00	A
50mm	0mm	0.28	0.77	1.15	1.21	1.06	1.12	1.05	A
25mm	25mm	0.16	0.47	0.90	1.18	1.11	1.06	0.90	B
40mm	25mm	0.35	0.87	1.15	1.11	1.10	1.08	1.05	A
50mm	25mm	0.40	0.88	1.16	1.19	1.06	1.06	1.05	A
25mm	50mm	0.23	0.60	1.04	1.19	1.04	1.08	0.95	A
40mm	50mm	0.50	0.88	1.12	1.11	1.04	1.11	1.05	A
50mm	50mm	0.55	0.95	1.16	1.16	1.04	1.11	1.10	A

## ACCREDITATION

SuperPhon® High Impact Wall 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) and is certified to BS EN 13964, Classes A, B and C for impacts in Sports Halls and Gymnasiums for multi-purpose use, by balls including footballs and hockey balls

## APPLICABLE PATENT

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

### CMS DANSKIN ACOUSTICS

**Scotland Office:** Tel: **01698 356000** Fax: **01698 372222**  
1 Netherton Road, Wishaw, ML2 0EQ

**Central/Southern Office:** Tel: **01925 577711** Fax: **01925 577733**  
Unit 2 Lyncastle Road, Appleton, Warrington, WA4 4SN

Email: [info@cmsdanskin.co.uk](mailto:info@cmsdanskin.co.uk) Website: [www.cmsdanskin.co.uk](http://www.cmsdanskin.co.uk)

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