

Reflecta Sound

SOUND ABSORBERS

n5Plus

Datasheet 41



The Products

Decorative fabric covered wall and ceiling panels, specially designed to absorb high levels of reflective noise. Made from dense, sound absorbing mineral fibre board and available in standard Cara and Lucia fabrics which meet the requirements of Class 1 Surface Spread of Flame when tested to BS476:Part7 1997. Thermal conductivity: 0.033 Wm/k@10°C.

Sizes, Colours and Finishes

Standard and bespoke sizes available up to a maximum of 3.0m x 1.2m. Two standard fabric finishes (Cara and Lucia) available in a wide choice of colours. Client's own fabric can be specified subject to compatibility of sample provided. Various thicknesses available in BS Absorber Classifications from A to D. Reflecta Sound can be customised as an Art Panel using a supplied graphic or photographic image (360DPI recommended) to a maximum size of 1.2m x 3.0m (min order 2 panels or 1m²).

Typical Applications

Schools, Theatres, Call Centres, Receptions, Conference Rooms, Retails, Public Buildings

Domestic Dwellings | Offices | Hotels | Conference Centres | Leisure Centres | Schools | Restaurants | Showrooms



Unit 32-34 Waters Meeting Development
Britannia Way, Bolton, BL2 2HH

Sales helpline **01204 548400**
8.30am - 5.00pm Monday to Friday

sales@acoustic-supplies.com
www.acoustic-supplies.com



The Products

The range features several decorative and impact resistant fabric covered wall and ceiling panel systems. Reflecta Sound Fabric Panels are manufactured from dense mineral fibre board and are designed to absorb high levels of reflective noise within a room to create a comfortable acoustic environment.

Choice of panel depth is based on the calculated reverberation times in relation to the wall or ceiling area available.

Reflecta Sound Fabric Panels

The Fabric Panel Range can be adapted to suit wall and ceiling space limitations and meet acoustic requirements. They are used to partially cover walls or ceilings for architectural effect or where complete wall or ceiling coverage is impractical. Fabric Panels are generally installed individually with shadow gap spacing. All panels are available in standard or bespoke sizes based on straight edged shapes, i.e. square, rectangle or triangle, in 25mm, 40mm and 50mm depths. Light weight to handle and particularly useful for covering large wall and ceiling areas, Fabric Panels are fabric covered to the visible panel face only.

Reflecta Sound Fabric Panels with Impact Resistant Facing

All Reflecta Sound Fabric Panels are available with an Impact Resistant facing board bonded onto the standard mineral fibre board. This provides high compressive resistance, particularly useful in low level locations. Impact Resistant Panels are specially suitable for wall or ceiling mounting at a higher level e.g. in Sports Halls, when installed with supporting U-channels.

Note: The JCW Gym Panel has the capability to withstand occasional impact, however we cannot guarantee the visual appearance of the system when continuously impacted by other objects.

Colours and Finishes

JCW offer two fabric ranges as standard; Cara fabric has an open hessian weave appearance while Lucia fabric provides a crepe texture finish. Where clients prefer to specify their own fabrics we require a 1m² fabric sample be provided to ensure compatibility with the manufacturing process and acoustic transparency.

Fire Performance

The Cara and Lucia fabrics all meet the requirements of Class 1 Surface Spread of Flame when tested to BS476: Part 7 1997.

Thermal Conductivity: 0.033 Wm/K @ 10°C

Packaging, Handling and Storage

Two Reflecta Sound Panels are packed with fabric face to fabric face in non-returnable polythene bags. The packs are laid horizontally and delivered on non-returnable wooden pallets with plastic corner protectors.

Reflecta Sound Impact Panels are packed vertically on the long edge, covered in bubble wrap and delivered on non-returnable wooden pallets. They can be packed in wooden crates on request.

All panels should be stored inside and under cover in a dry, well ventilated area protected from dirt and dust. Pallets and crates should be kept level and not double stacked. To avoid soiling the fabric, great care must be taken when handling.

Application and Fixing

Whilst panels can be supplied in pre-cut shapes and sizes, some cutting on site may be required to accommodate light switches, power sockets etc. The Reflecta Sound range is designed for installation with concealed fixings – please contact JCW Acoustic Supplies for further information.

Care and Maintenance

Panels can be cleaned periodically with a low powered vacuum cleaner. Under no circumstances should they be cleaned using water. Stains can be touched out with an appropriate cleaning solution applied in accordance with manufacturers instructions.

Availability

Panels are available to order and should only be fitted by suitably qualified tradesmen or specialist contractors.

Domestic Dwellings | Offices | Hotels | Conference Centres | Leisure Centres | Schools | Restaurants | Showrooms



Unit 32-34 Waters Meeting Development
Britannia Way, Bolton, BL2 2HH

Sales helpline **01204 548400**
8.30am - 5.00pm Monday to Friday

sales@acoustic-supplies.com
www.acoustic-supplies.com

Acoustic Performance

Hanging Absorbers	Thickness mm	Sound Absorption Co-efficient (tested to BS EN ISO 354:2003)					
		125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz
Reflecta Sound Fabric/Art Panels	25	0.3	0.42	0.87	1.00	1.00	1.00
	40	0.5	1.00	0.9	0.9	0.85	0.9
	50	0.7	1.00	1.00	1.00	1.00	1.00
Reflecta Sound Impact Resistant Panels	28	0.6	0.17	0.48	0.89	1.00	1.00
	43	0.13	0.42	0.9	1.00	0.98	1.00
	53	0.5	1.00	1.00	1.00	1.00	1.00

*Figures quoted are when panels are fixed directly to a wall.

Dimensions

Product	Thickness mm	Maximum Height mm **	Maximum Width mm
Reflecta Sound Fabric/Art Panels	25	3000	1200
	40	3000	1200
	50	3000	1200
Reflecta Sound Impact Resistant Panels	28	3000	1200
	43	3000	1200
	53	3000	1200

** Z Clip fixings are oriented to suit the height of the panel. When ordering please indicate how the panels are to be oriented to ensure fixings are secured in the right plane.

Technical Advice

Our qualified and experienced acoustic engineers can provide architects, consultants and contractors with detailed technical advice on product specifications, suitability, installation and reverberation time (RT) calculations needed to meet the required acoustic performance.

Operating Temperature

Reflecta Sound products are suitable for normal building temperatures.

Building Regulation Classification

Product	Thickness mm	Absorber Classification (When tested to BS EN ISO 11654-1997)
Reflecta Sound Fabric/Art Panels	25	C
	40	A
	50	A
Reflecta Sound Impact Resistant Panels	28	A
	43	A
	50	A

Domestic Dwellings | Offices | Hotels | Conference Centres | Leisure Centres | Schools | Restaurants | Showrooms



Unit 32-34 Waters Meeting Development
Britannia Way, Bolton, BL2 2HH

Sales helpline **01204 548400**
8.30am - 5.00pm Monday to Friday

sales@acoustic-supplies.com
www.acoustic-supplies.com



Important Any images for printing must:

- Be good quality (a print resolution of approximately 360 DPI is recommended). This is because the quality of the final print will always depend on the quality of the original photo.
- Have a subject which is centrally positioned and not containing important detail at the edges. This is because the image will be wrapped around the edge of the panel and fixed to the back to create a neat finish and any detail at the edges will be lost.

Dimensions

Reflecta Sound Art Panels can be manufactured to fit almost any space to meet customer requirements. The smallest square panel offered is 600 x 600mm; the largest square panel manufactured is 1200 x 1200mm. The largest landscape or portrait panel we can produce is 1200 x 3000mm.

Please note the size of the panel must match and reflect the image. If the image selected is square shaped then the panel must also be square or the quality of the image when positioned and viewed on the finished panel will not be very good. If the image is landscape shape then the panel also needs to be landscape.

All panel sizes can be mixed and matched to create different wall or ceiling designs or to cover larger areas. The minimum order is two panels or one square metre.

Typical applications

Reflecta Sound Art Panels will add that finishing touch, aesthetically and acoustically, to a wide range of spaces including:

- Restaurants
- Museums
- Galleries
- Libraries
- Conference rooms
- Offices
- Dining rooms and assembly areas
- Common rooms and staff rooms
- Cinemas
- Exhibition stands
- Music venues
- Shopping malls
- Airports
- Banks
- Classrooms
- Reception areas
- Retail environments
- Living spaces

Flammability

The core of the panel meets BS 476: Part 6: Class O and the facing of the panel meets the requirements of BS 5867: Part 2: Type B performance.

The Products

Reflecta Sound Art Panels combine good acoustic sound absorption properties with a unique opportunity to customise the surface design with your choice of image. By reducing the level of reflected sound, both echo and reverberation are dampened, making it easier to communicate. These panels are the perfect option where noise reduction in open plan spaces and social areas like conference rooms, museums, restaurants and offices needs to work in harmony with the aesthetics of the room.

Total flexibility in the choice of images which can be applied to the Reflecta Sound Art Panel means this sound absorption solution can be cleverly disguised as artwork – offering sound absorption with designer flair for those areas where aesthetics is a high priority. Reflecta Sound Art Panels are made from a highly absorptive semi rigid fibreglass core covered with a digitally printed fabric face. This facing is 100% polyester, offering both acoustic transparency and high end digital printing quality.

Design and digital printing

The panel can either be printed with an image chosen from our library or from a customer's own image, for example a company logo or a treasured photograph. You can even send us a family photo (like holiday snaps or a wedding portrait), a drawing or perhaps a painting – maybe a child's first picture - the possibilities are endless.

Domestic Dwellings | Offices | Hotels | Conference Centres | Leisure Centres | Schools | Restaurants | Showrooms



Unit 32-34 Waters Meeting Development
Britannia Way, Bolton, BL2 2HH

Sales helpline **01204 548400**
8.30am - 5.00pm Monday to Friday

sales@acoustic-supplies.com
www.acoustic-supplies.com