kvadrat soft cells

About Kvadrat Soft Cells

Kvadrat Soft Cells offers the most compelling portfolio in acoustic textile solutions for walls and ceilings. This provides infinite design possibilities and ranges from standard post-fit panels to complex custom-made solutions.

Since the acquisition of Fabric Systems in late 2016, our extended product offering comprises a variety of durable, flexible designs, all of which reflect our commitment to push the aesthetic and technological boundaries of acoustic textile solutions.

The Kvadrat Soft Cells service offering combines a highly agile production process, local assistance from our trained architectural support team and a global sales network. Everything is managed in-house, from design to on-site development.

Acoustic solutions from Kvadrat Soft Cells are used in visionary architectural developments across the world, such as International Criminal Court, Netherlands; Leadenhall Building, United Kingdom; The German National Bank, Germany and the Masdar Institure, United Arab Emirates.

Client: International Criminal Court
Location: The Hague, the Netherlands
Architecture and design: Schmidt Hammer Lassen Architects
Solution: Soft Cells

Kvadrat Soft Cells at a glance

Description

– Acoustic panels
– Infinite design and customisation opportunities
– Look good for years due to patented tensioning mechanism

Architectural support

– End-to-end project management
– Contact with acousticians
– Guidance on specifications and integration
– Assistance with building regulations
– Advice on textiles and suitability for different spaces
– Delivery of drawing documentation files
– Input to sustainability programmes
– Computational design
– Provide CE marking / Declaration of Performance documentation

Sizes

Available in bespoke sizes and shapes

Installation

– Easy to install
– Fits walls and ceilings
– Can be installed at different angles
– Suitable for pre- and post-fitting
– Soft Cells panels are easy to disassemble, update with new colours and reinstall
– Certified installers can be arranged on request

Aesthetic excellence

– Choice of over 200 colours
– A broad selection of Kvadrat textiles that have been tested for acoustic performance

Acoustic performance

– Class A, Class B and Class C (ISO 354) sound absorption possible
– Can be calibrated with an acoustician to meet room-specific requirements

Sustainability

– Soft Cells frames are made from a minimum of 40% recycled aluminium
– Contribute to all major environmental building certification schemes, including DGNB, BREEAM and HQE
– The acoustic core used in the Fabric Systems products is made from 100% recycled material

Client: Thomson Reuters
Location: London, United Kingdom
Architecture and design: Scott Brownrigg
Solution: Fabric Systems

Acoustic comfort

Our senses fundamentally determine how we experience the world. A comfortable acoustic environment enhances well-being and motivation. A space with poor acoustics has the opposite effect.

Optimising acoustic quality can be challenging for today's architects: the hard surfaces associated with contemporary building designs, such as glass and concrete, can lead to increased reverberation and cause 'acoustic smog'.

Kvadrat Soft Cells provides an ideal solution. Whatever the design concept, they can be specified to deliver Class A, Class B or Class C sound absorption. This enables you to create a comfortable acoustic environment that supports concentration, collaboration and communication.

Client: Skin and Laser Center
Location: Altmühltal, Germany
Architecture and design: Reimann Interior & Design
Solution: Soft Cells

Expert end-to-end support

When you choose Kvadrat Soft Cells as supplier you get expert support on performance, integration and functionality at every stage of the process – from initial planning to installation.

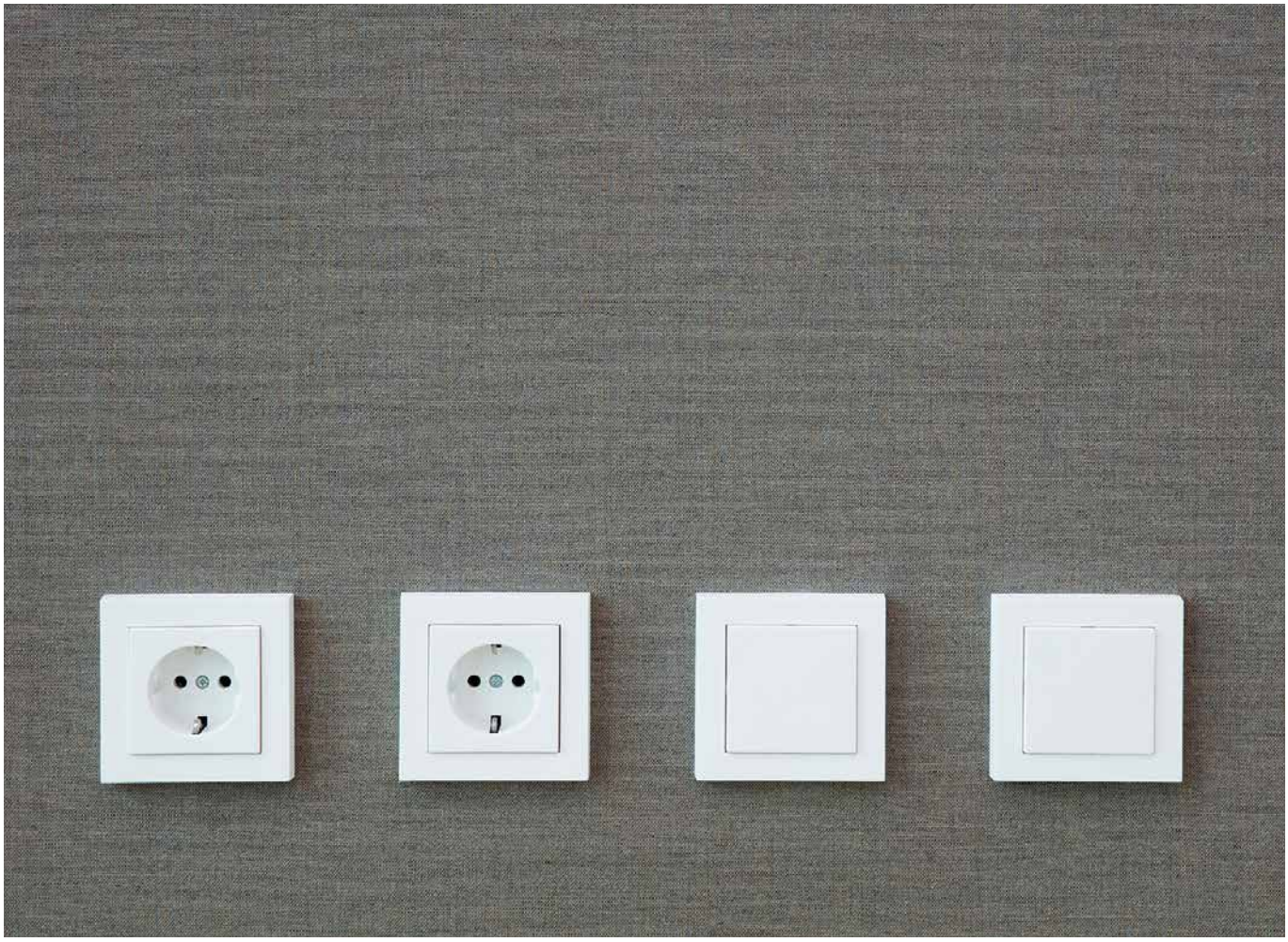
The Kvadrat Soft Cells network combines the benefits of a global presence with local insight. Our team has in-depth knowledge of building regulations, acoustics, architecture and design, and can assist with:

– Building regulations
– Technical documents for tender specifications
– Budget optimisation
– Selecting textiles
– Training your installers
– Providing drawing documentation files
– Connecting you with acousticians
– Input to sustainability programmes
– Computational design


kvadrat soft cells
BOSCH

Fixture integration

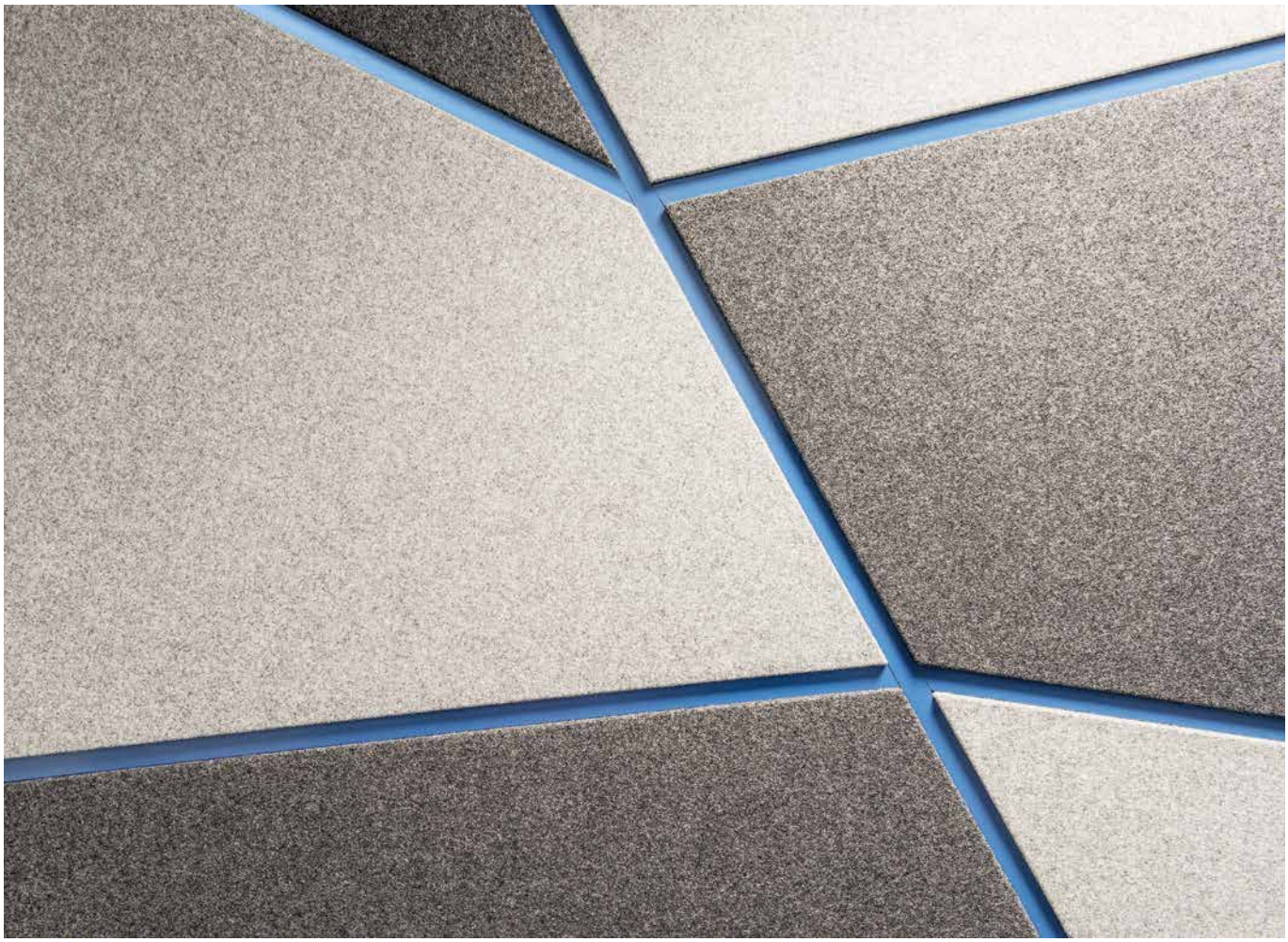
Both the Soft Cells and Fabric Systems panels can easily be combined with other technical service systems such as power plugs, ventilation aggregates, sprinklers and AV equipment without losing acoustic performance or aesthetic appearance.



Extraordinary design flexibility

Our textile acoustic panels are customisable to any shape to suit all acoustic, project-specific and market needs. The frames allow for the textile's tension to be optimised according to the size, shape, orientation and curvature (if required) of the panel.

It is also simple to update the Soft Cells panels to meet new design requirements. Quick to install, they can just as easily be dismounted, reupholstered and reinstalled. The design of the frames allows for this process to be repeated as often as required.



Safety and CE marking

Safety is paramount at Kvadrat Soft Cells. Our customers can always have total confidence in our products.

For ceiling and high walls installations, Soft Cells carry the CE marking. This indicates that the Soft Cells panels have been tested for reaction to fire, asbestos content and formaldehyde emissions and they comply with the relevant EU legislation.

Client: Europlaza
Location: Amsterdam, the Netherlands
Architecture and design: HofmanDujardin
Solution: Soft Cells

Textiles as an architectural tool

Textiles introduce colour and a tactile quality. They can change the ambience of a room instantly. They are a means to add personality, softness and natural materials to a space, thereby enhancing the sense of well-being.

On a purely practical level, textiles also bring many valuable benefits. They enable you to segment or unite different areas of a space and can help to optimise light conditions. Finally, they enhance acoustic conditions, creating a more comfortable, productive environment.

The Soft Cells and Fabric Systems panels seamlessly fit any design concept due to the versatility of the panels and the wide selection of Kvadrat textiles they are available in. These offer a choice of over 200 colours, where most have been pre-tested for acoustic performance.

Available in many colours and shapes, our products are ideal for those looking to discreetly blend acoustic panels into an interior theme.

The acoustic textile panels can also be specified to perfectly match other textiles in an interior project, as Kvadrat offers premium quality curtains and upholstery textiles too. This ‘one-stop shop’ option not only provides an opportunity to optimise aesthetic and functional quality; it also simplifies project management.

Sustainable design

Our products are designed for optimal sustainability. Consequently, they contribute to major environmental building certification schemes – notably, DGNB, LEED, BREEAM and HQE.

Supporting this, the Kvadrat Soft Cells team can advise on specifying the right solution in order to gain environmental certification. In doing so, they work closely with architects and interior designers.

Made with a minimum of 40% recycled aluminium, Soft Cells are long-lasting. Due to their patented tensioning mechanism, they are unaffected by humidity and temperature.

The acoustic core used inside the Fabric Systems panels is made from 100% recycled material.

Client: CMS Cameron McKenna
Location: London, United Kingdom
Architecture and design: KKS
Solution: Fabric Systems

Types of Fabric Systems

The Fabric Systems portfolio includes a customisable track system, free hanging baffles and a pinnable panel system. These come in a comprehensive selection of Kvadrat textiles, and with a colour palette that spans from bright block colours to softer tuned down tones, it is easy to match any design scheme.

Fabric Systems Tracks

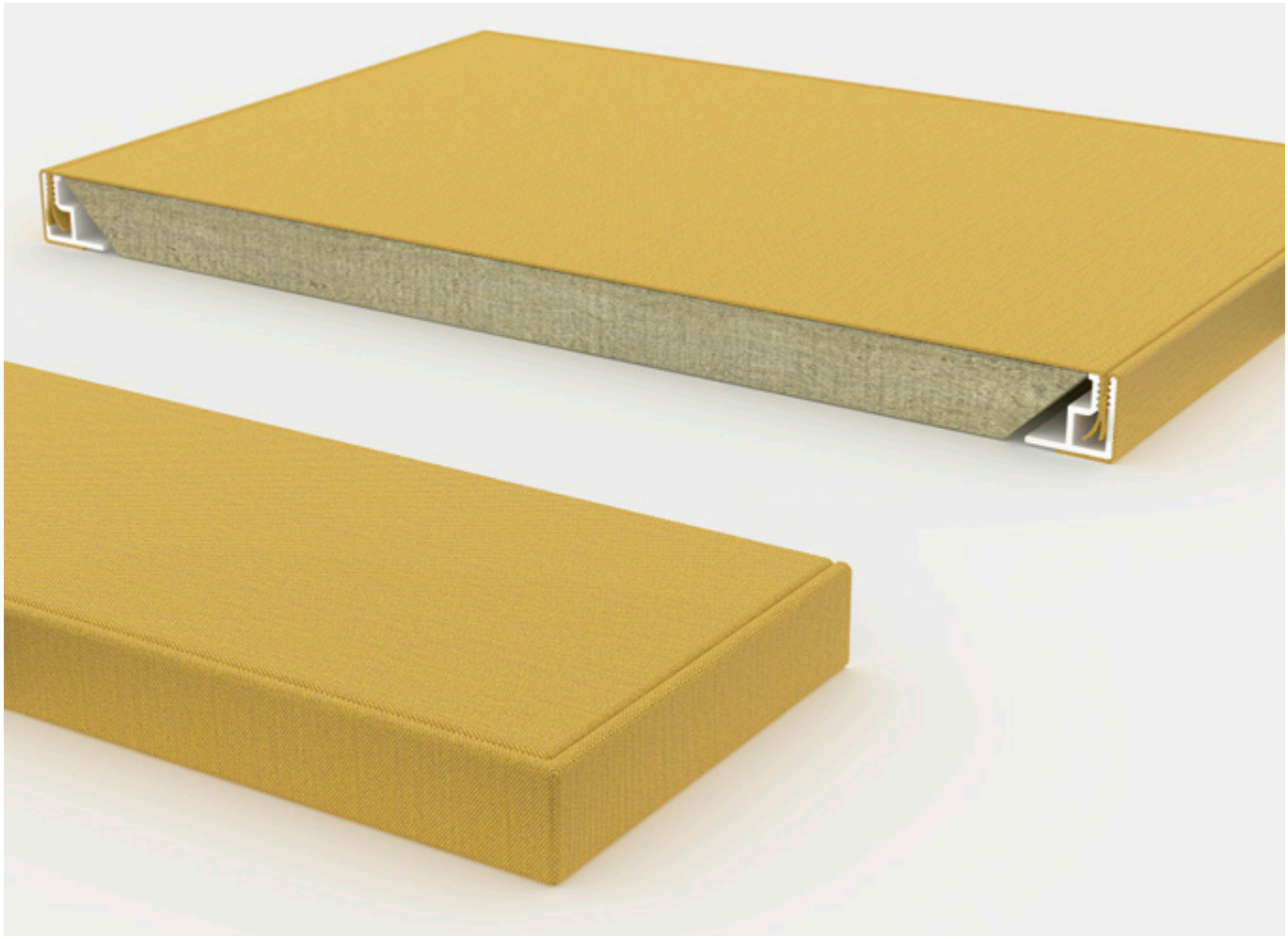
Fabric Systems Tracks is a site fabricated acoustical wall system, that stretch textile over semi-rigid acoustic padding to control sound. The design allows for free-form curves, decorative reveals or three-dimensional surfaces.

The system is available in three thicknesses:

– 12 mm NRC: 0.55 Class C sound absorption
– 25 mm NRC: 0.80 Class B sound absorption
– 50 mm NRC: 0.95 Class A sound absorption

Product features:

– Suitable for wall use
– Site fabricated
– Flexible and easily adjustable during installation
– Excellent noise reduction
– Resists microbial growth
– Structurally rigid



Fabric Systems Baffles

The Fabric Systems Baffles are designed to meet the sound attenuation requirements of large gathering areas that do not allow for suspended ceilings or for areas that require additional sound absorbing materials. The baffles are unique to the industry through the use of rigid polymer frame extrusions, allowing for meticulous detailing that results in a tailored appearance while maintaining constant rigidity throughout the baffle unit.

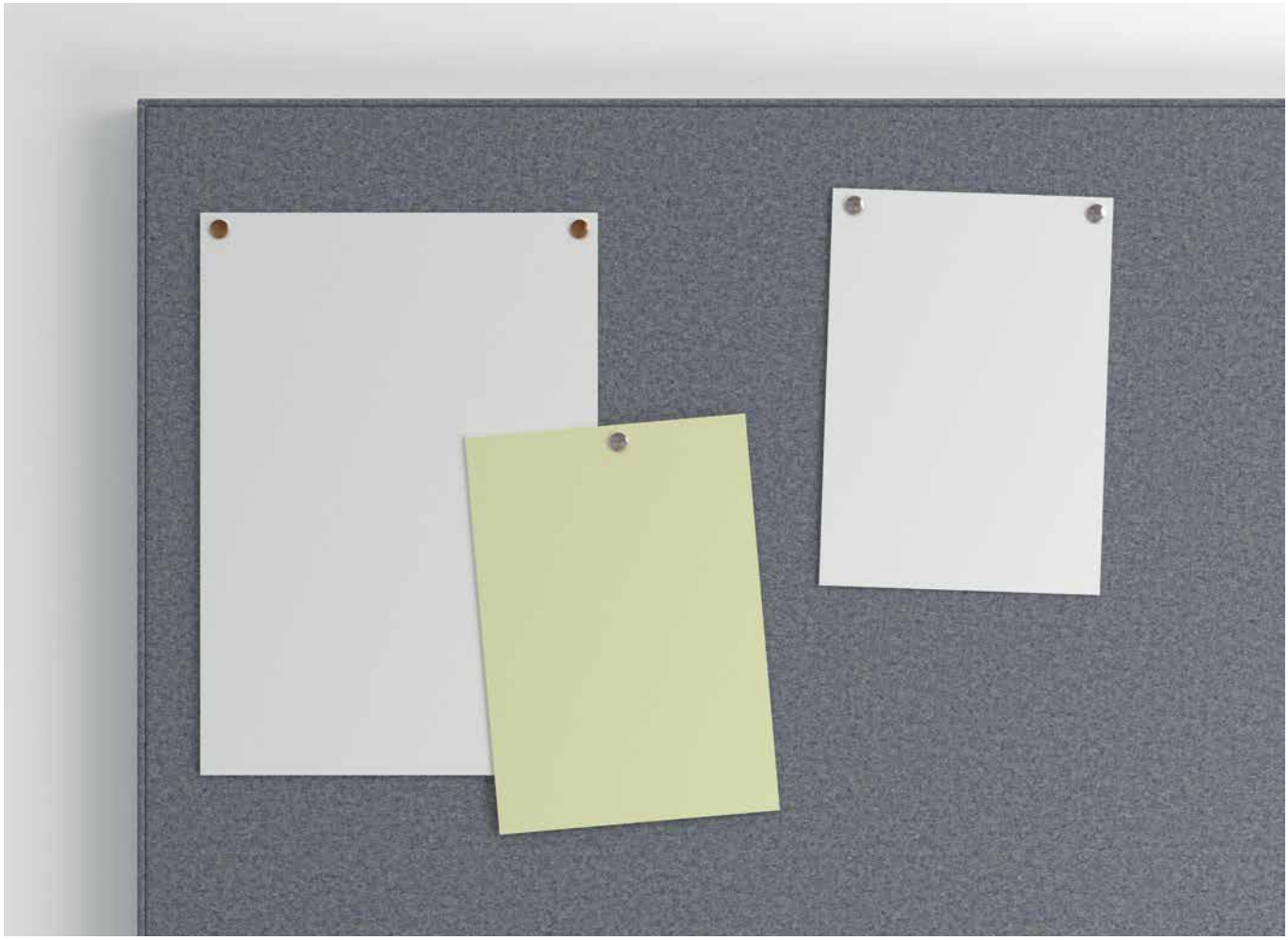
Product features:

– Suitable as free hanging panels and room dividers
– Excellent noise reduction
– Can be constructed in custom sizes up to 1200 mm × 2400 mm
– Endless colour options
– Delivered ready on site

Fabric Systems Pin

Fabric Systems Pin is based on the Fabric Systems 12 mm Track system, using a different pinnable substrate.

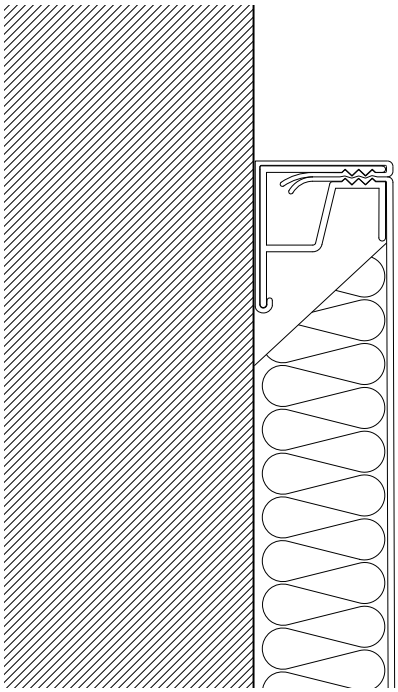
Often used in combination with Fabric Systems Tracks, it completes the aesthetic look with an even surface while still providing good acoustic absorption. Kvadrat Soft Cells can advise which textiles are suitable to use for this solution.



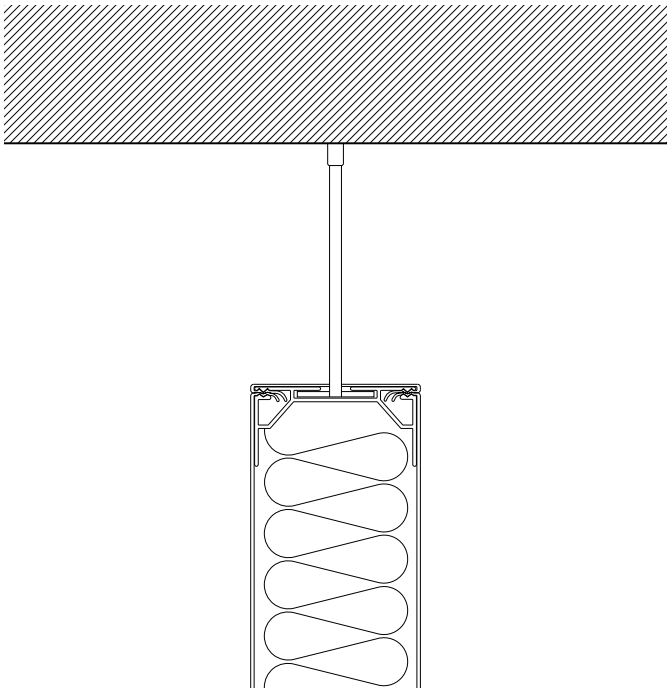
Fabric Systems on-site assembly and installation

Fabric Systems panels are built and installed on-site, ensuring they always fit perfectly. This approach provides great flexibility. If required, adjustments can easily be made before installation to suit updated measurements or needs.

Installed with traditional track profiles or magnets for easy dismounting, Fabric Systems panels are easy to mount.



Fabric Systems Tracks



Fabric Systems Baffles

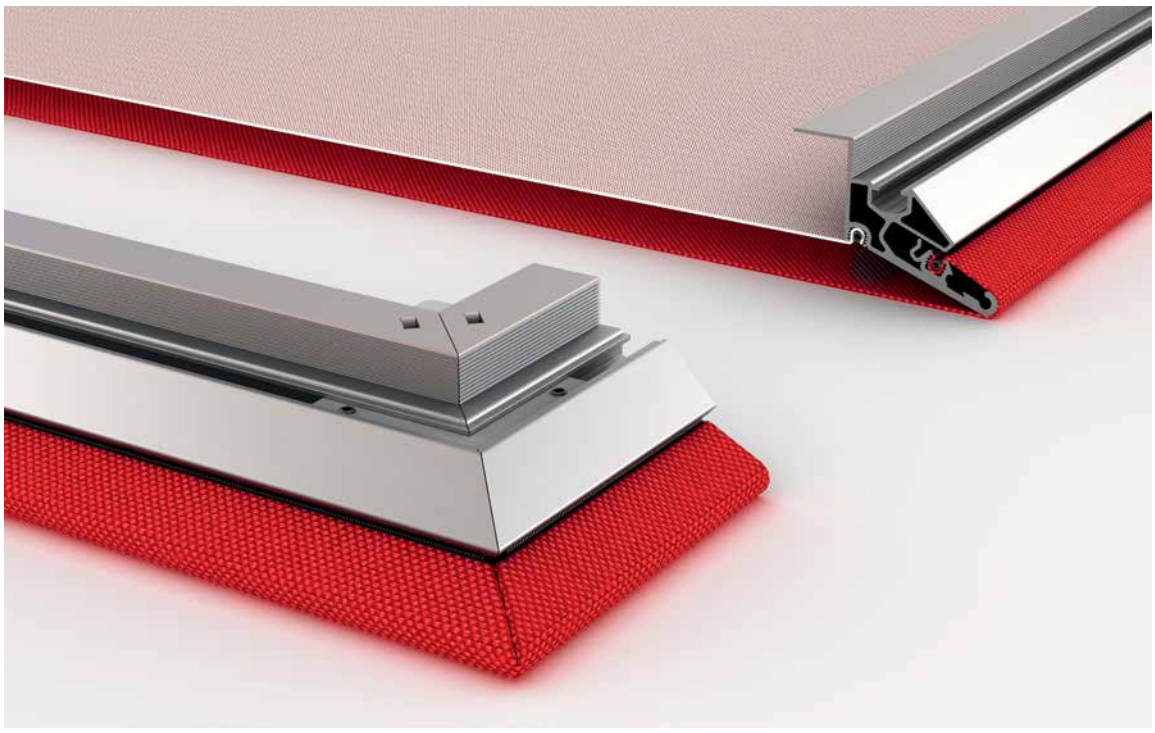
Fabric Systems Tracks

Fabric Systems Baffles

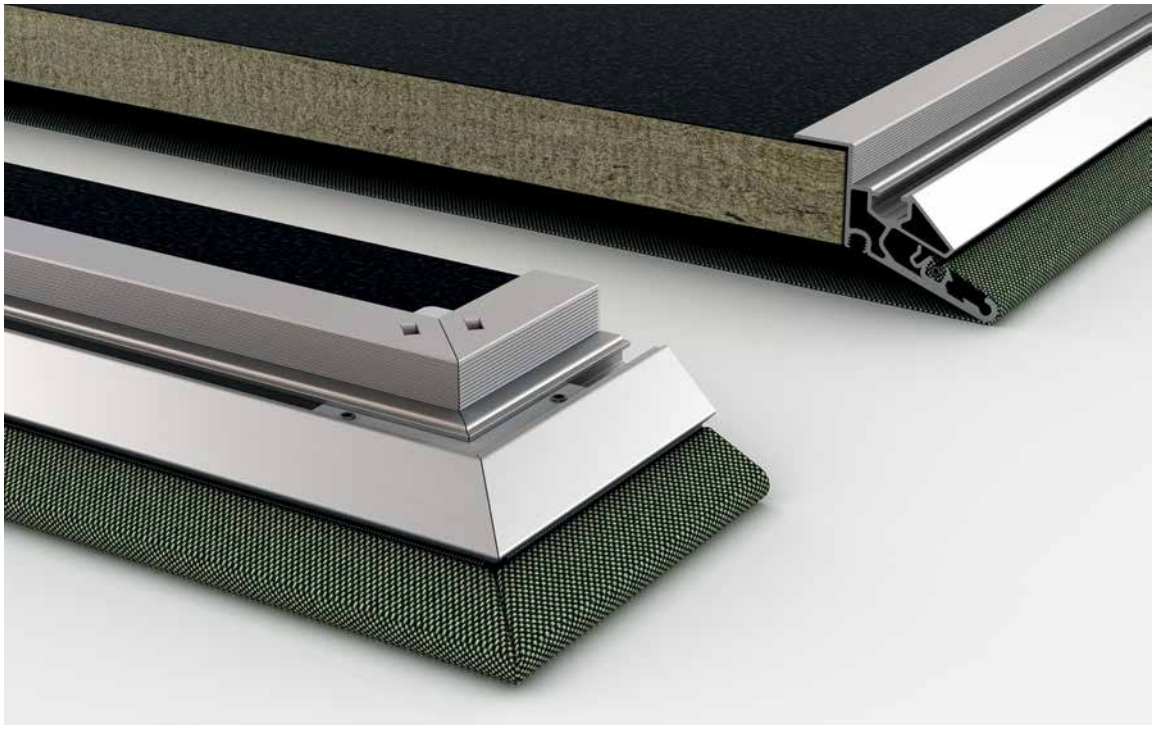
Types of Soft Cells

Different projects have different acoustic requirements. Reflecting this, there are four types of Soft Cells panels, which offer varying levels of performance. This ensures that, whatever the acoustic challenges of the space in question, there is a Soft Cells solution to match.

The four types of Soft Cells all share the same patented tensioning mechanism, aluminium frame and front textile layer.



Soft Cells Standard



Soft Cells Broadline

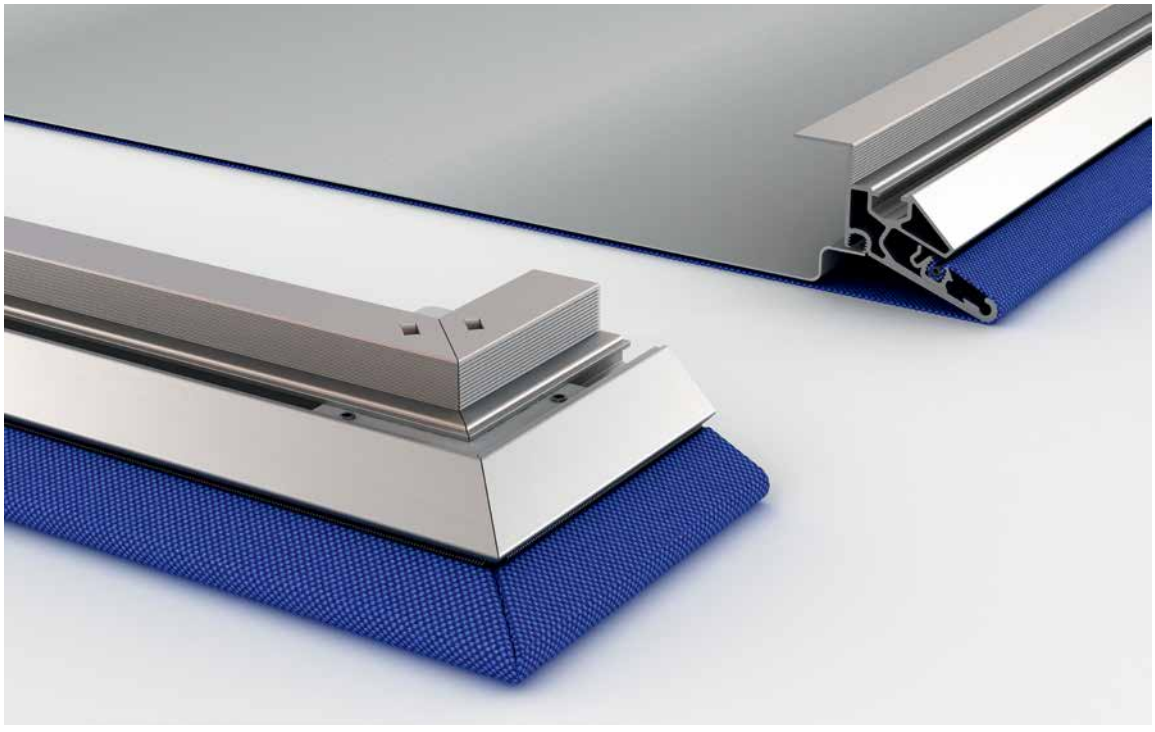
Soft Cells Standard
Delivers Class C to D conditioning between 200–4000 Hertz

Soft Cells Broadline
Delivers Class A conditioning between 125–5000 Hertz

Soft Cells Lowtone
Delivers optimal acoustic performance between 125–500 Hertz

Soft Cells Reflective
Delivers Class E sound absorption (high reflection)

Soft Cells Lowtone



Soft Cells Reflective

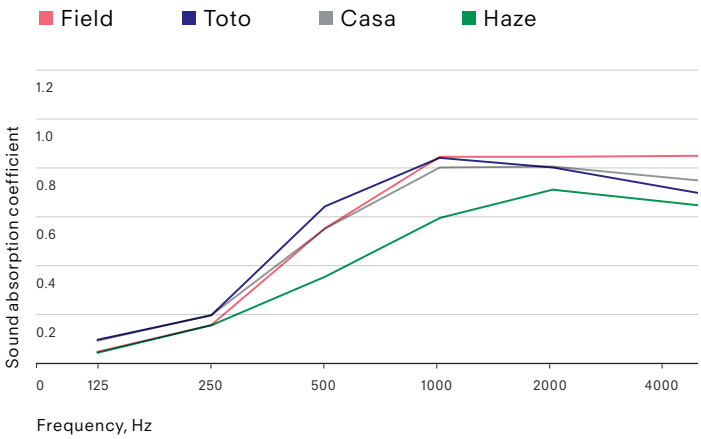
Soft Cells Standard

Soft Cells Standard panels rely on two layers of tensioned textile to control sound. Typically, this version offers Class C sound absorption, as per ISO 11654.

Particularly well suited to:

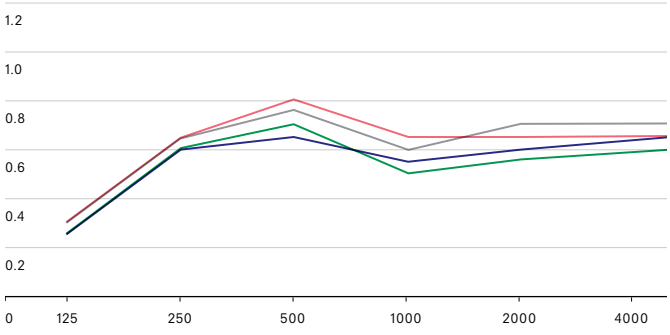
- Spaces with moderate need for sound absorption
- Spaces with large, free surfaces – particularly in ceilings
- Spaces where high frequency absorption on walls and broadband absorption as suspended ceiling are needed

Wall and ceiling absorbers installed with magnets, 55 mm depth (ISO-354) with different front textiles



Textile example	Acoustic Class	α	EN Fire Class
Ginger	D	0,4	B-s1,d0
Toto	D	0,5 (MH)	B-s1,d0
Casa	D	0,5 (MHH)	B-s1,d0
Pro 3	D	0,45 (MH)	B-s1,d0
Tempo	D	0,5 (HH)	B-s1,d0
Haze	D	0,4 (HH)	B-s2,d0

Suspended ceiling absorbers, 200 mm depth (ISO-354) with different front textiles



Textile example	Acoustic Class	α	EN Fire Class
Ginger	D	0,55	B-s1,d0
Toto	C	0,6	B-s1,d0
Casa	C	0,7	B-s1,d0
Pro 3	C	0,7	B-s2,d0
Tempo	C	0,7	B-s1,d0
Haze	D	0,55	B-s2,d0

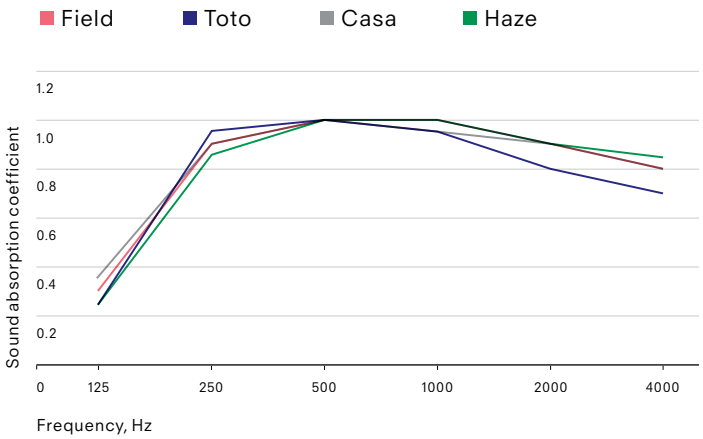
Soft Cells Broadline

Soft Cells Broadline panels incorporate acoustic padding behind a textile layer. Typically, this model offers Class A broad sound absorption, as per ISO 11654.

Particularly well suited to:

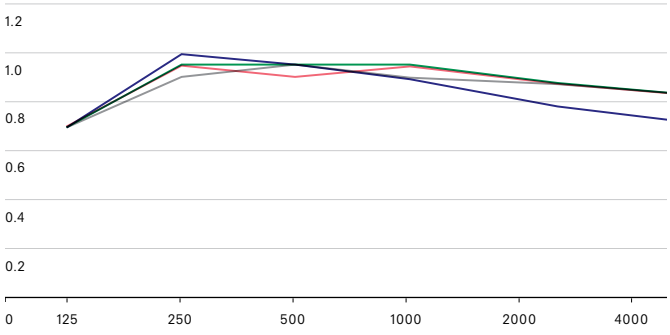
- Spaces with severe to moderate sound reverberation problems and noise
- Spaces with limited free wall or ceiling surface for acoustic regulation
- Lowering overall reverberation due to broadband absorption

Wall and ceiling absorbers installed with magnets, 55 mm depth (ISO-354) with different front textiles



Textile example	Acoustic Class	α	EN Fire Class
Field	A	0,95	B-s1,d0
Ginger	A	0,95	B-s1,d0
Toto	B	0,85	B-s1,d0
Casa	A	0,95	B-s1,d0
Pro 3	A	0,95	B-s2,d0
Tempo	A	0,9	B-s2,d0
Haze	A	0,95	B-s2,d0

Suspended ceiling absorbers, 200 mm depth (ISO-354) with different front textiles



Textile example	Acoustic Class	α	EN Fire Class
Field	A	0,95	B-s1,d0
Ginger	A	0,95	B-s1,d0
Toto	A	0,9	B-s1,d0
Casa	A	0,95	B-s1,d0
Pro 3	A	0,9	B-s2,d0
Tempo	A	0,95	B-s2,d0
Haze	A	0,95	B-s2,d0

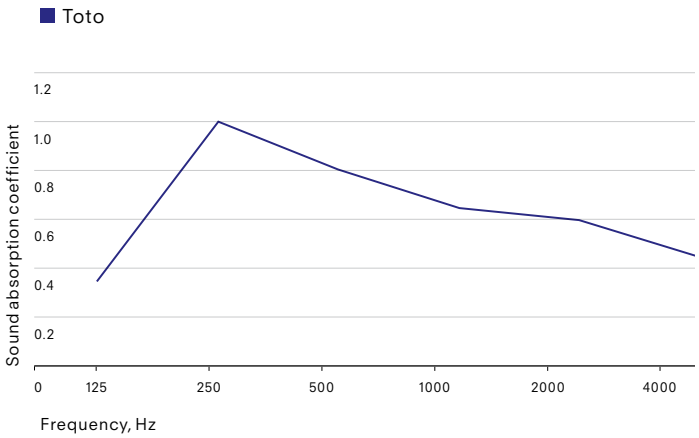
Soft Cells Lowtone

Soft Cells Lowtone panels have a specially developed glass textile membrane behind a tensioned front textile layer, and deliver excellent acoustic performance concentrated in the low and mid range frequencies.

Particularly well suited to:

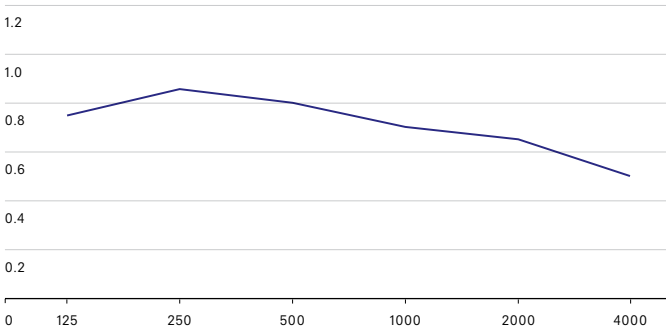
- Spaces with special acoustic requirements – not just sound absorption
- Small rooms or spaces with large free surfaces for combining with other types of Soft Cells
- Low frequency absorption and high frequency reflection
- Environments with constant low frequency sounds, such as ventilation systems

Wall and ceiling absorbers installed with magnets, 55 mm depth (ISO-354)



Textile example	Acoustic Class	α	EN Fire Class
Toto	C	0,6 (L)	B-s1,d0

Suspended ceiling absorbers, 200 mm depth (ISO-354)



Textile example	Acoustic Class	α	EN Fire Class
Toto	C	0,65 (L)	B-s1,d0

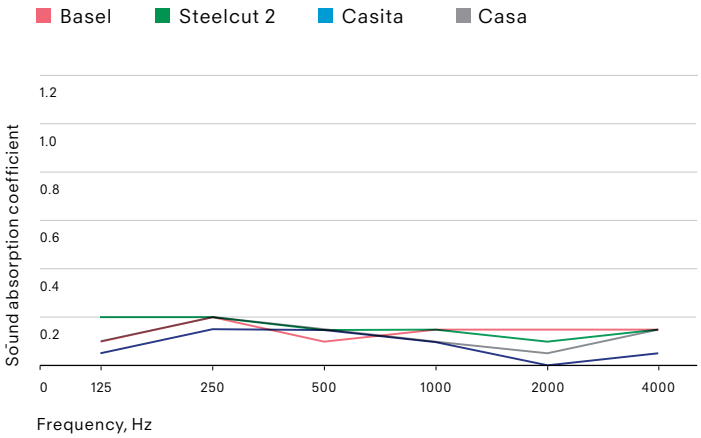
Soft Cells Reflective

Soft Cells Reflective panels incorporate a reflective plate behind a textile layer. Typically, this model offers Class E sound absorption (high reflection), as per ISO 11654.

Particularly well suited to:

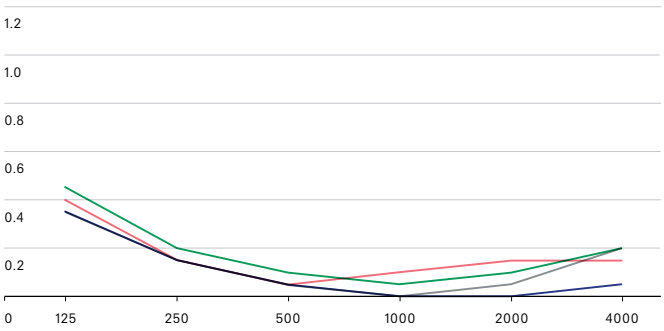
- Spaces where speech/sound needs projection in a specific direction, e.g. close to a speaker in a conference room or in a music hall above the orchestra.
- Spaces that feature advanced acoustic design with both reflective and absorbing panels in combination with one consistant surface/appearance
- Combining reflective (hard) acoustic properties with the aesthetic soft and tactile textile surface choices of Soft Cells

Wall and ceiling absorbers installed with magnets, 55 mm depth (ISO-354) with different front textiles



Textile example	Acoustic Class	α	EN Fire Class
Basel	E	0,25 (L)	No class
Steelcut 2	E	0,25 (L)	No class
Casita	E	0,2 (L)	B-s1,d0
Casa	E	0,2 (L)	B-s1,d0

Suspended ceiling absorbers, 200 mm depth (ISO-354) with different front textiles



Textile example	Acoustic Class	α	EN Fire Class
Basel	E	0,2 (L)	No class
Steelcut 2	E	0,2 (L)	No class
Casita	E	0,15 (L)	B-s1,d0
Casa	E	0,15 (L)	B-s1,d0

Soft Cells installation

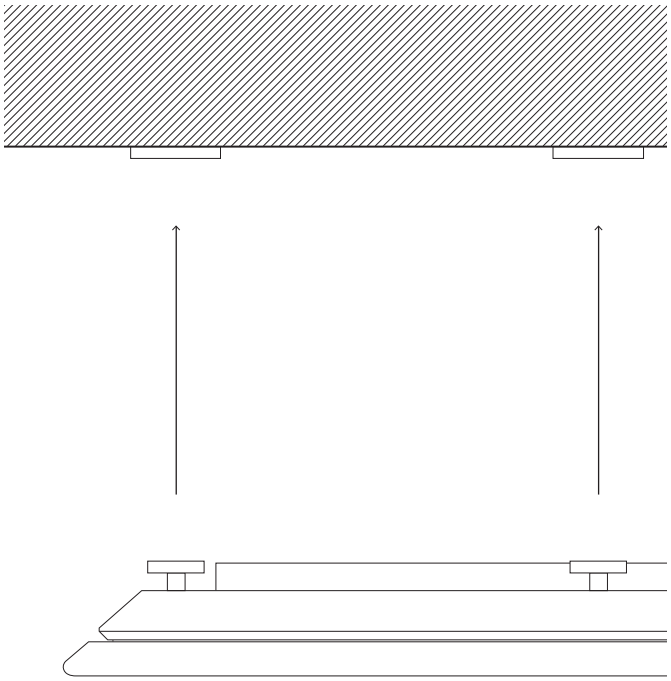
Installing and, if required, reinstalling Soft Cells is simple and quick. They can be pre-and post-fitted to walls and ceilings.

Soft Cells use a versatile installation system. The frames are fully detachable and offer easy access, without having to fully remove the panel.

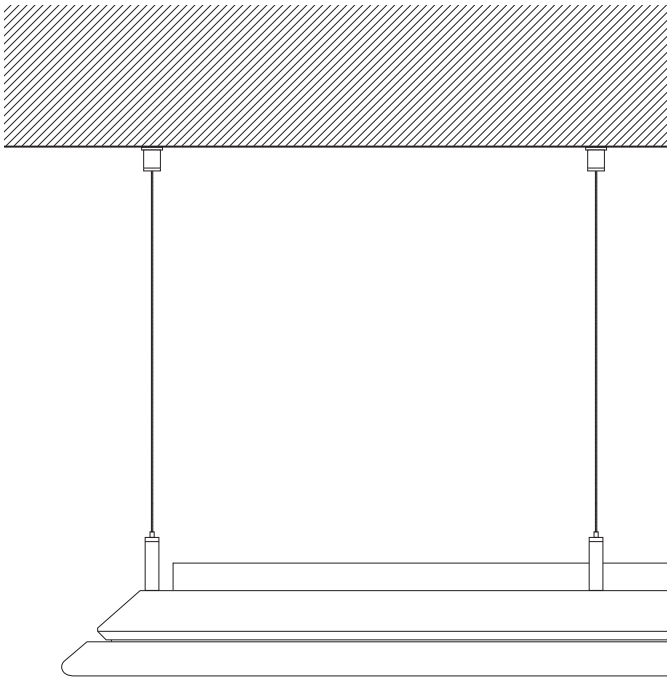
Magnet mounting

Allows for the dismantling of panels without tools.
Suitable for installation on walls and ceilings.

Material: pot magnet, steel
Dimensions from the front side of the Soft Cells to the installation surface: 55 mm



Soft Cells installed with magnets



Soft Cells wire installation

Steel wire suspension

For ceiling mounting where a suspended ceiling is required.

Material: stainless steel wire
Minimum dimension of the front side of the panel to the installation surface: 110 mm

Hinge/push latch ceiling suspension

If subsequent access is required behind the panel, Soft Cells should be mounted with hinge/push latch.

Material: steel
Dimensions from the front side of the Soft Cells to the installation surface: 55 mm

All ceiling and wall installations mounted above 3000 mm from the floor with magnets and/or hinges, must be installed with safety wires

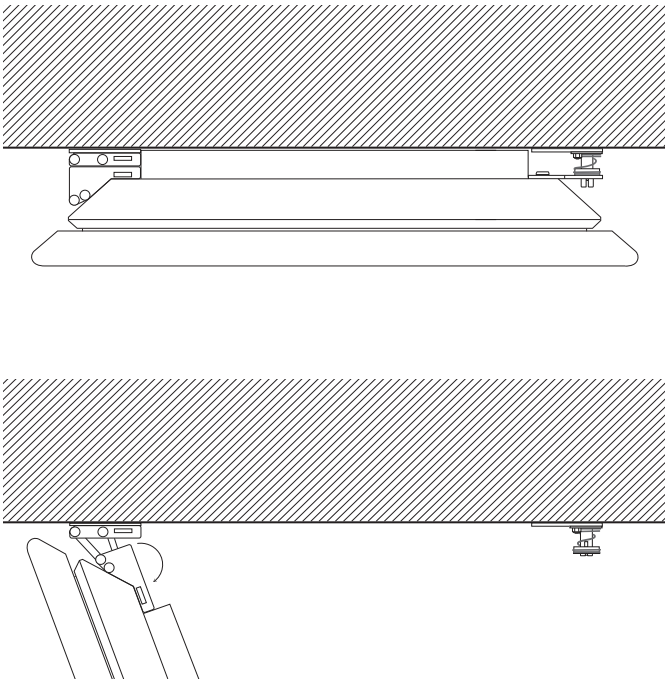
End caps

If you wish to create a seamless look, you can cover the small gap between the Soft Cells and the wall with end caps. You can have these painted in any colour or upholstered in textile.

Material: aluminium
Width: 55 mm
Length: maximum 6000 mm in one piece

CE marking and Declaration of Performance

For our ceiling solutions, Kvadrat Soft Cells is able to provide a CE marking certificate.



Soft Cells Hinged ceiling solution

Soft Cells end caps

Client: Omers
Location: London, United Kingdom
Architecture and design: HLW
Solution: Fabric Systems

Client: XFEL
Location: Hamburg, Germany
Architecture and design: Blunck und Morgen HH
Solution: Soft Cells

Client: Vanguard
Location: London, United Kingdom
Architecture and design: Gensler
Solution: Fabric Systems

Client: Thomson Reuters
Location: London, United Kingdom
Architecture and design: Scott Brownrigg
Solution: Fabric Systems

Client: Element GmbH Office
Location: Frankfurt, Germany
Architecture and design: Valerie Reisdorf / APO FFM
Solution: Soft Cells

Client: the Leadenhall Building
Location: London, United Kingdom
Architecture and design: Advanced Interior Solutions
Solution: Soft Cells

Client: Towergate Insurance
Location: London, United Kingdom
Architecture and design: HK Architects
Solution: Fabric Systems

Client: PwC
Location: Hamburg, Germany
Architecture and design: JOI-Design
Solution: Soft Cells

Client: Catlin Insurance
Location: London, United Kingdom
Architecture and design: Artillery
Solution: Fabric Systems

Selected references

Cultural

Danish Broadcasting Corporation, Copenhagen, Denmark
Danmarkshuset, Paris, France
Imax Theater, Seattle, United States
King Abdulaziz Center for World Culture, Riyadh, Saudi Arabia
Kunsthalle, Hamburg, Germany
M&C Saatchi, Milan, Italy
Messe Frankfurt, Frankfurt, Germany
Nordisk film, Aarhus, Denmark
Science Museum, London, United Kingdom
Städel Museum, Frankfurt, Germany

Education

Duke Kunshan University, Kunshan, China
Gefion Gymnasium, Copenhagen, Denmark
Imperial College, London, United Kingdom
London Business School, London, United Kingdom
Oxford University, Oxford, United Kingdom
Southampton City College, Southampton, United Kingdom
St. Patrick's College, Dublin, Ireland
Wharton Business School, Beijing, China

Hospitality

Gibson Hotels, Dublin, Ireland
Hilton Hotel, Liverpool, United Kingdom
Hilton Terminal 5, Heathrow, United Kingdom
25hours Hotel, Zürich, Switzerland
Hotel Pullman, Brussels, Belgium
Kilternan Hotel, Dublin, Ireland

Music Halls and Auditoriums

Aalborg Music Hall, Aalborg, Denmark
Basel Music Academy, Basel, Switzerland
Fraunhofer Institute, Erlangen, Germany
Handelskammer Innovation Campus, Hamburg, Germany
Harpa Concert & Conference Centre, Reykjavik, Iceland
Hyundai, South Korea
La Maison des Huit Heures, Brussels, Belgium
Music Hall, Aarhus, Denmark
Musiktheater, Linz, Austria

Offices and Banking

Aon, London, United Kingdom
Axis Bank, Mumbai, India
Bank of Montreal, London, United Kingdom
Bank PHB, London, United Kingdom
Barclays Bank, London, United Kingdom
BASF, Ludwigshafen, Germany
Bloomberg, London, United Kingdom
BNP Paribas, Brussels, Belgium
Boston Consulting Group, Germany, United Kingdom
BP, London, United Kingdom
British Land, London, United Kingdom
Catlin Insurance, London, United Kingdom
Cisco Systems, Lisbon, Portugal
CMS Cameron Mckenna, London, United Kingdom
Danfoss, Sønderborg, Denmark
Deutsche Bank, London, United Kingdom
Department of Health, London, United Kingdom
Ernst & Young, Germany, United Kingdom
Estee Lauder, London, United Kingdom
FC Bayern, Munich, Germany
Foster & Partners, London, United Kingdom
GlaxoSmithKline, London, United Kingdom
Google, Denmark, United Kingdom
Coca-Cola, France, United Kingdom
HBOS, the Mound, Edinburgh, United Kingdom
HSBC, Dublin, Ireland
IBM, London, United Kingdom
Maersk, Copenhagen, Denmark
Microsoft, Milan, Italy, United Kingdom
Michon De Reya, London, United Kingdom
National Bank of Kuwait, Kuwait City, Kuwait
Network Rail, London, United Kingdom
PwC, Munich, Germany
Royal Bank of Canada, London, United Kingdom
Skype, London, United Kingdom
Tottenham Hotspur, London, United Kingdom

Public areas and lobbies

Confederation of Danish Industry, Copenhagen, Denmark
German National Library, Leipzig, Germany
International Chamber of Commerce, Paris, France
Korona Shopping & Entertainment Mall, Brasov, Romania
Royal Danish Library, Copenhagen, Denmark
Unibail-Rodamco Shopping Mall, Lyon, France

Other

Eastern High Court, Copenhagen, Denmark
International Criminal Court, The Hague, Netherlands
King Abdullah Financial District, Riyadh, Saudi Arabia
Landratssaal, Heilbronn, Germany
Ratssaal, Wilhelmshaven, Germany
Rolls-Royce, London, United Kingdom
Sedus Research and Development Centre, Waldshut, Germany
Schweizerische National Bank, Bern, Switzerland

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Volkswagen DRIVE, Berlin Germany
Volkswagen Immobilien GmbH
in collaboration with Christoph Mäkler Architekten