



kvadrat acoustics



Timeless and aesthetic acoustic solutions for any space

Any acoustic challenge, any design scheme, wall or ceiling solutions, a wish for custom shapes, our global team is there to assist you in designing the most optimal acoustic solution to support your needs and design vision. Kvadrat Acoustics solutions unite best-in-class longevity and expert service, covering every stage from initial technical support to installation.

Client: Amorepacific HQ
Location: Seoul, South Korea
Architecture and design: David Chipperfield Architects



Why acoustics matter in your space

Today's modern architecture is often characterised by materials, such as glass, concrete and steel, that can lead to distracting and uncomfortable noise. The acoustic solutions of Kvadrat Acoustics allow you to overcome this challenge while enhancing aesthetic quality, productivity and well-being.

Good acoustics can improve

- Task motivation by over 60% ¹
- Ability to focus on tasks by more than 40% ²
- Mental arithmetic performance by 20% ³
- Performance during concentration demanding tasks with up to 50% ⁴

Good acoustics can reduce

- Adrenaline levels by 30% ⁵
- Stress levels by 27% ⁶
- Conversational distractions by more than 50% ⁷
- Error rates by 10% ⁸



Exceptional longevity

Market – leading 10 year warranty

Kvadrat Acoustics solutions offer an outstanding return on investment as they are durable and long-lasting.

- Unaffected by heat and humidity due to patented tensioning mechanism
- Simple to reinstall and reupholster
- Stay pristine for years

Client: Under
Location: Lindenes, Norway
Architecture and design: Snøhetta Architects
Photography: Ivar Kvaal

Infinite creative flexibility

Seamless integration with any space or concept

Kvadrat Acoustic solutions – which include a rich choice of Kvadrat textiles that are pre-tested for acoustic performance – provide total creative freedom.

- Pre- or post-fit
- Any freeform shape possible for any wall or ceiling
- Circular, triangular, concave and convex panels possible
- Over 200 textile colours
- Easy, flexible installation
- Custom Kvadrat textiles possible
- Seamless integration of technical service products



Complementary concepts

Acoustic solutions backed by a unique design ecosystem

Kvadrat Acoustics solutions integrate with a suite of complimentary products.

NODE coordinates building services devices, such as sprinklers, lights and speakers, into a family of circular nodes, which harmonise with the overall aesthetic of the project.

Weave Radiant Textile Panels are patented textile panels that control thermal comfort. They achieve this by incorporating water pipes which heat and/or cool a radiant surface located behind a layer of tensioned textile.

Luminous Textile Panels integrates multi-coloured LEDs seamlessly within beautiful textiles that also soften sound.

OneSpace is an ultra-thin panel that delivers homogeneous, day-light-like light. Composed of incombustible, sound-absorbing glass fibre textile and aluminium, it transforms any interior into a cohesive space.



End-to-end expertise

Kvadrat Acoustic solutions include personalised support from initial vision to installation. This combines local insights, architecture and design expertise and the efficiencies of a global network.

You tailor your service solution to your project. Your options include:

- Acoustic advice
- Guidance on specifications, regulations and budget optimisation
- Assistance with selecting textiles
- Computational design
- Installation and installer training





Complete safety

Kvadrat Acoustic solutions offer optimal safety performance. Soft Cells panels by Kvadrat Acoustics for both ceilings and walls carry the CE marking.

- Manufacturer or importer claims compliance with the relevant EU legislation
- Stress tested fitting systems including safety wire system
- Fire tested complying 'very low contribution' and 'non-combustible' on main markets worldwide
- Soft Cells panels are tested for reaction to fire, asbestos content and formaldehyde emissions

Client: Europlaza
Location: Amsterdam, The Netherlands
Architecture and design: HofmanDujardin

Textiles and architecture

Kvadrat textiles introduce colour, softness and tactile materials, enabling you to personalise any space.

- Enhance acoustic quality
- Increase well-being and create a more comfortable, productive environment
- Segment or unite different areas
- Express brand identities
- Optimise light conditions





Sustainable design

Soft Cells panels by Kvadrat Acoustics are designed for optimal sustainability. Consequently, they contribute to major environmental building certification schemes – notably, DGNB, LEED, BREEAM and HQE.

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

The Soft Cells frame is made with 44% recycled aluminium and the acoustic padding is created out of 38% recycled mineral wool, making Kvadrat Acoustics solution long-lasting. Due to the panels' patented tensioning mechanism, they are unaffected by humidity and temperature. Moreover, the panels can be reupholstered and their components can be reused.

Kvadrat Acoustics solutions further encompass:

- Third party verified EPD (Environmental Product Declaration)
- Low emission certificate - Eurofins Indoor Air Comfort
- Sub-suppliers follow Kvadrat Code of Conduct
- Contributions to annual Kvadrat Group Sustainability Report'

Client: Cleveland Clinic
Location: Ohio, USA
Architecture and design: Foster + Partners
Photography: Mark Wayner

Flexible installation

Easy to install and reinstall on any surface

Soft Cells panels by Kvadrat Acoustics offer a choice of versatile installation systems for walls and ceilings.

Magnet mounting

For walls and ceilings
55 mm from front of panel to installation surface

Flex magnet mounting

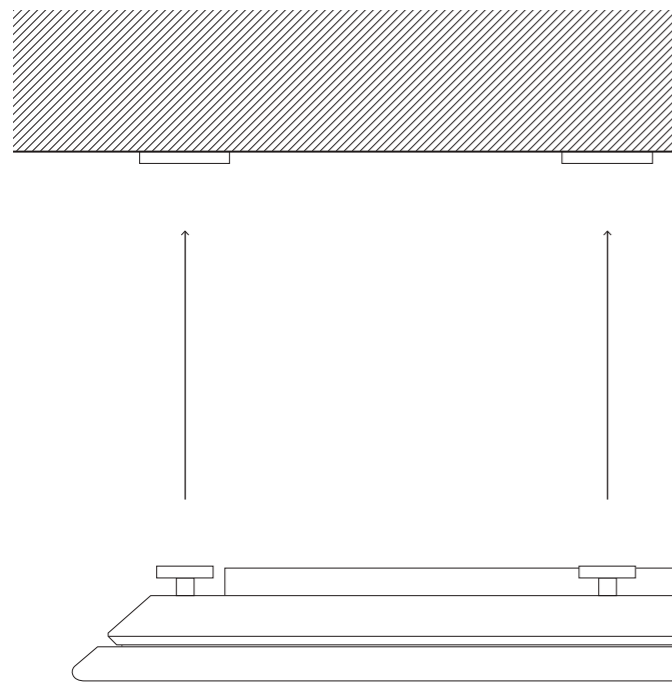
For walls and ceilings as a concealed/hidden solution
55 mm from front of panel to installation surface

Steel wire suspension

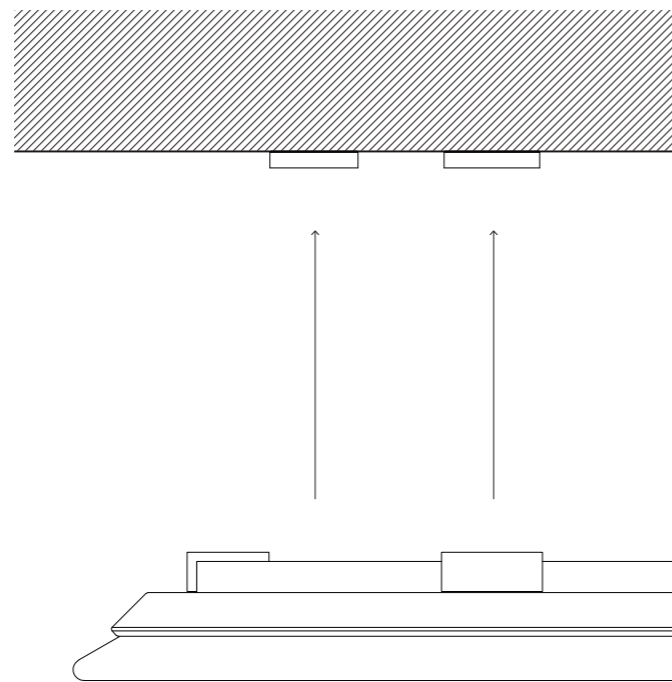
For suspended ceilings
110 mm minimum distance front of panel to installation surface

Hinge/push latch ceiling suspension

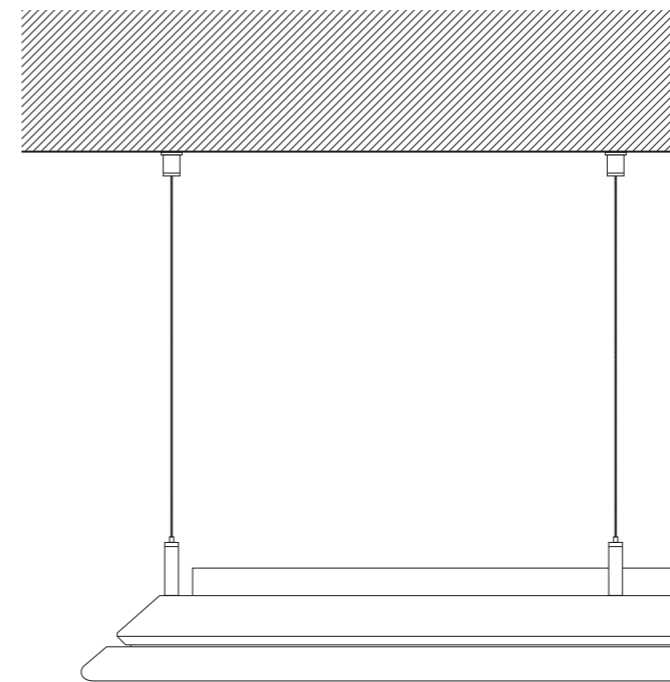
For ceilings where access behind the panel is required
55 mm from front of panel to installation surface



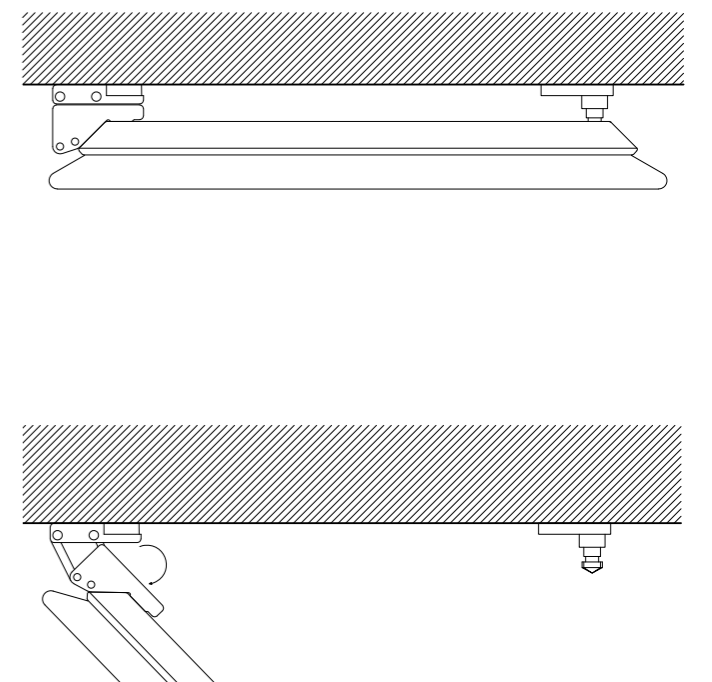
Magnet



Flex magnet



Wire



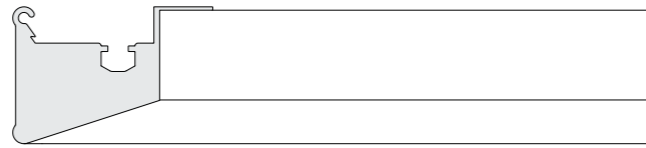
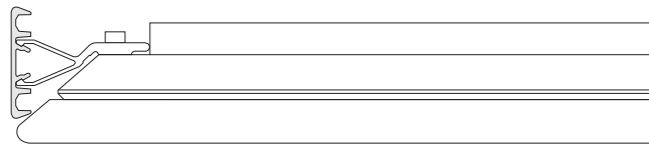
Hinged ceiling solution

End caps

For covering the small gap between wall and Soft Cells panels.

Can be either anodised surface or upholstered with the same textiles as the Soft Cells panels.
45 mm wide, length adjusted to length or width of Soft Cells, max. 6000 mm in one piece.

For closed edge solution the front textile is upholstered over the closed edge to the back of the panel as an integrated solution.



End cap

Closed edge solution

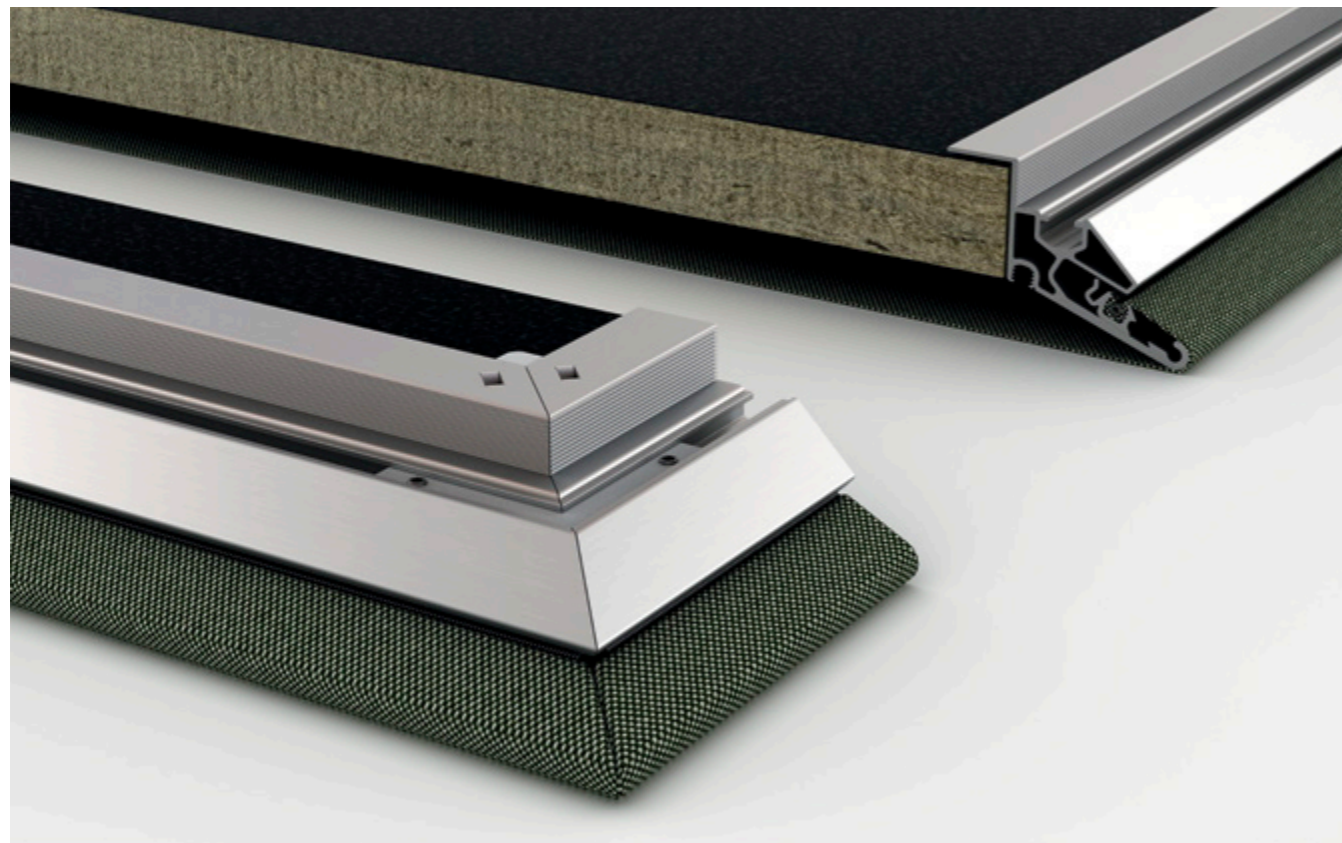


Broadline acoustic panels

Typically class A sound absorption per ISO 11654

Incorporates acoustic padding behind a tensioned textile layer.

- 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



Lowtone acoustic panels

Excellent acoustic performance in low and mid-range frequencies

Incorporates a specially developed glass membrane behind a tensioned textile layer.

- 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 panels
- Low frequency absorption and high frequency reflection
- Environments with constant low frequency sounds, such as ventilation systems

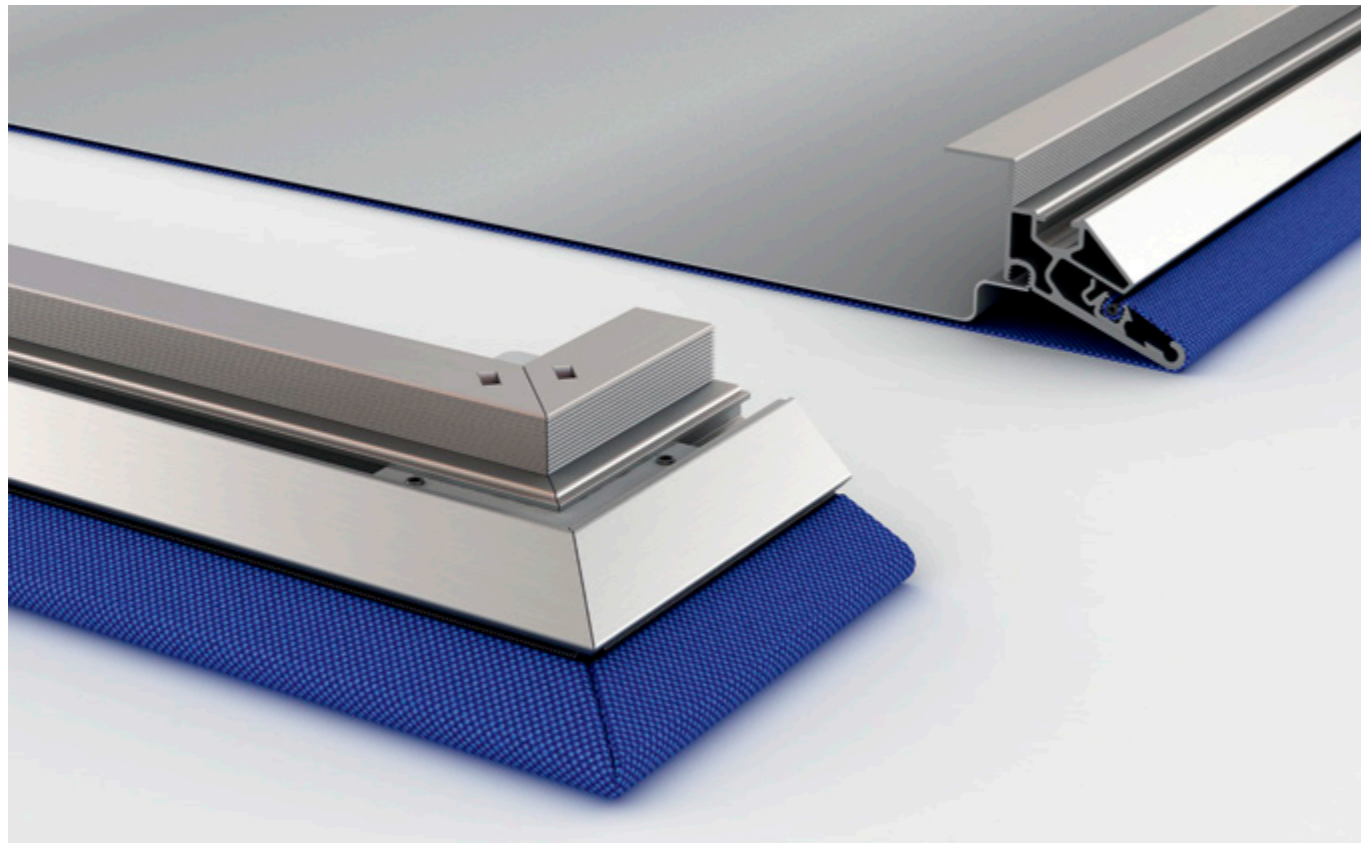


Reflective acoustic panels

Class E sound absorption (high reflection) per ISO 11654

Incorporates a reflective plate behind a tensioned textile layer.

- Spaces where speech/ sounds needs to be directed
- Environments with advanced acoustic design, which require reflective and absorbent panels with a uniform look

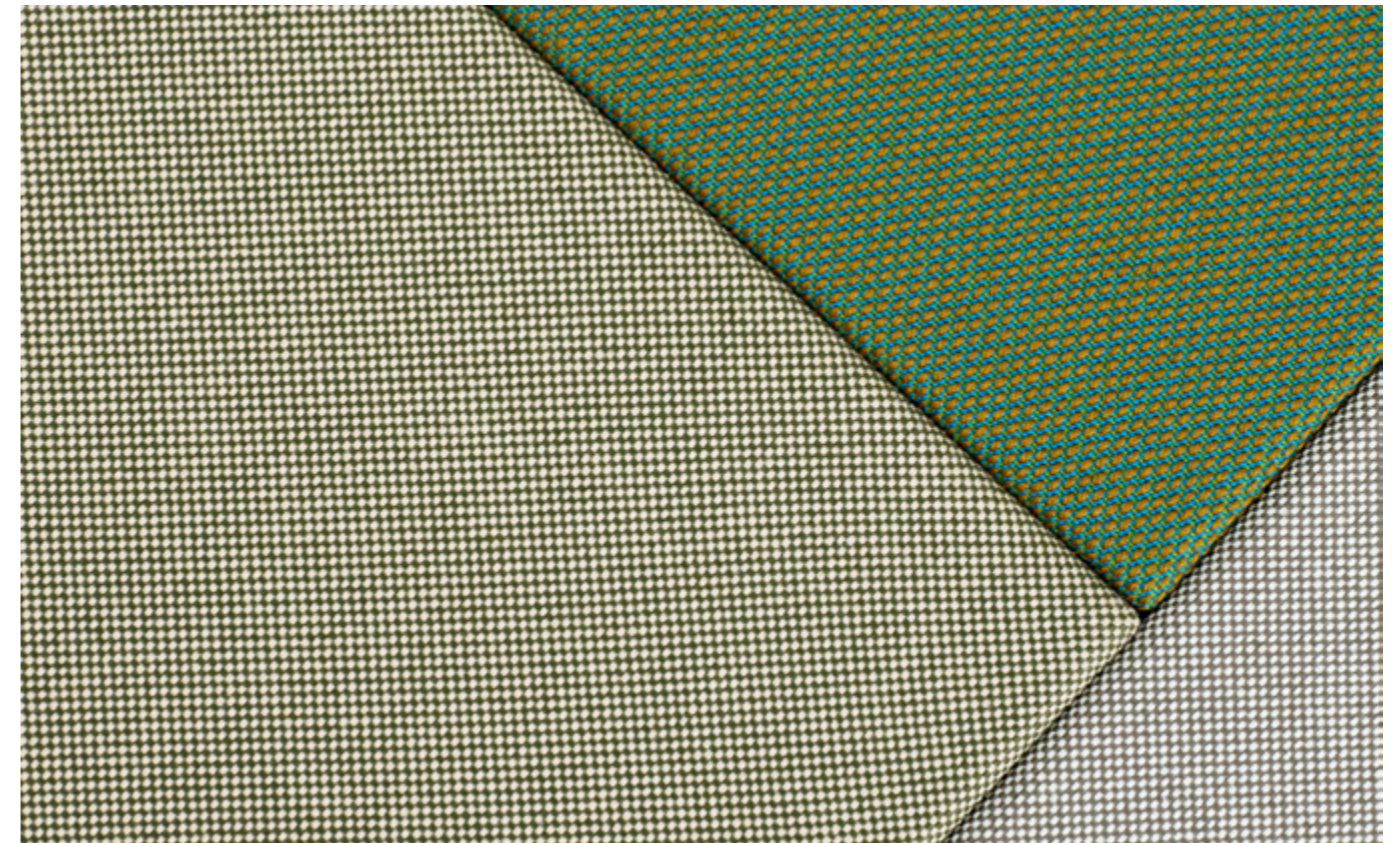


Tracks acoustic wall panel system

On site fabricated acoustical wall system

Installed with track profiles or magnets for easy mounting and dismantling.

- Customisable to any shape, including freeform curves and three-dimensional finishes
- Flexible and easy to adjust during installation

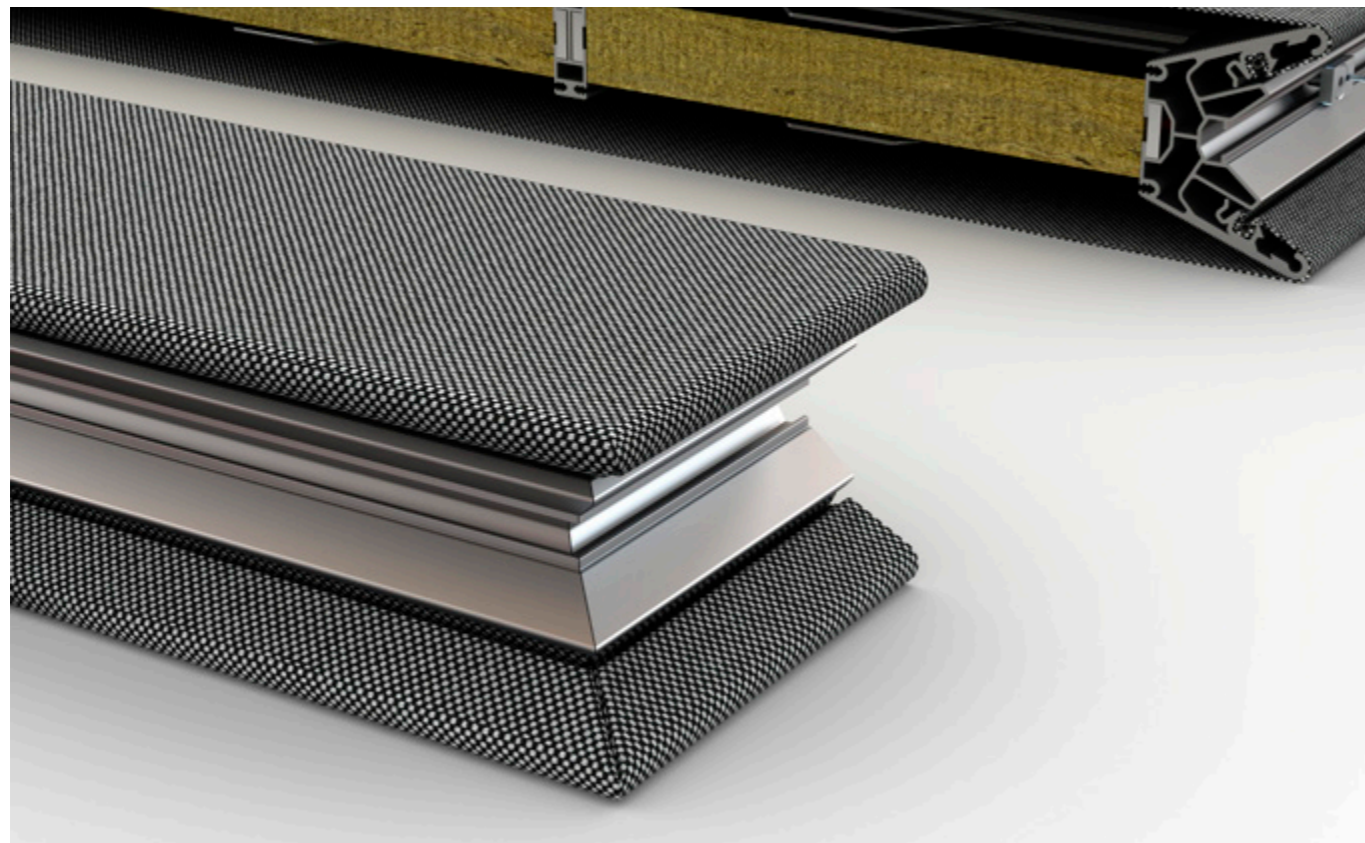


Ceiling Baffles

Acoustic solution for large gathering areas that do not permit suspended ceilings

Incorporates acoustic padding behind front textile layers on both sides.

- Spaces with severe to moderate sound reverberation problems and noise
- Spaces with limited free ceiling or wall space where ceiling must be open
- Big open spaces where only free hanging objects can be mounted
- Effective broadband absorption lowering overall reverberation



Elements modular acoustic wall panels

Typically class A sound absorption per ISO 11654

An acoustics-made-easy solution.

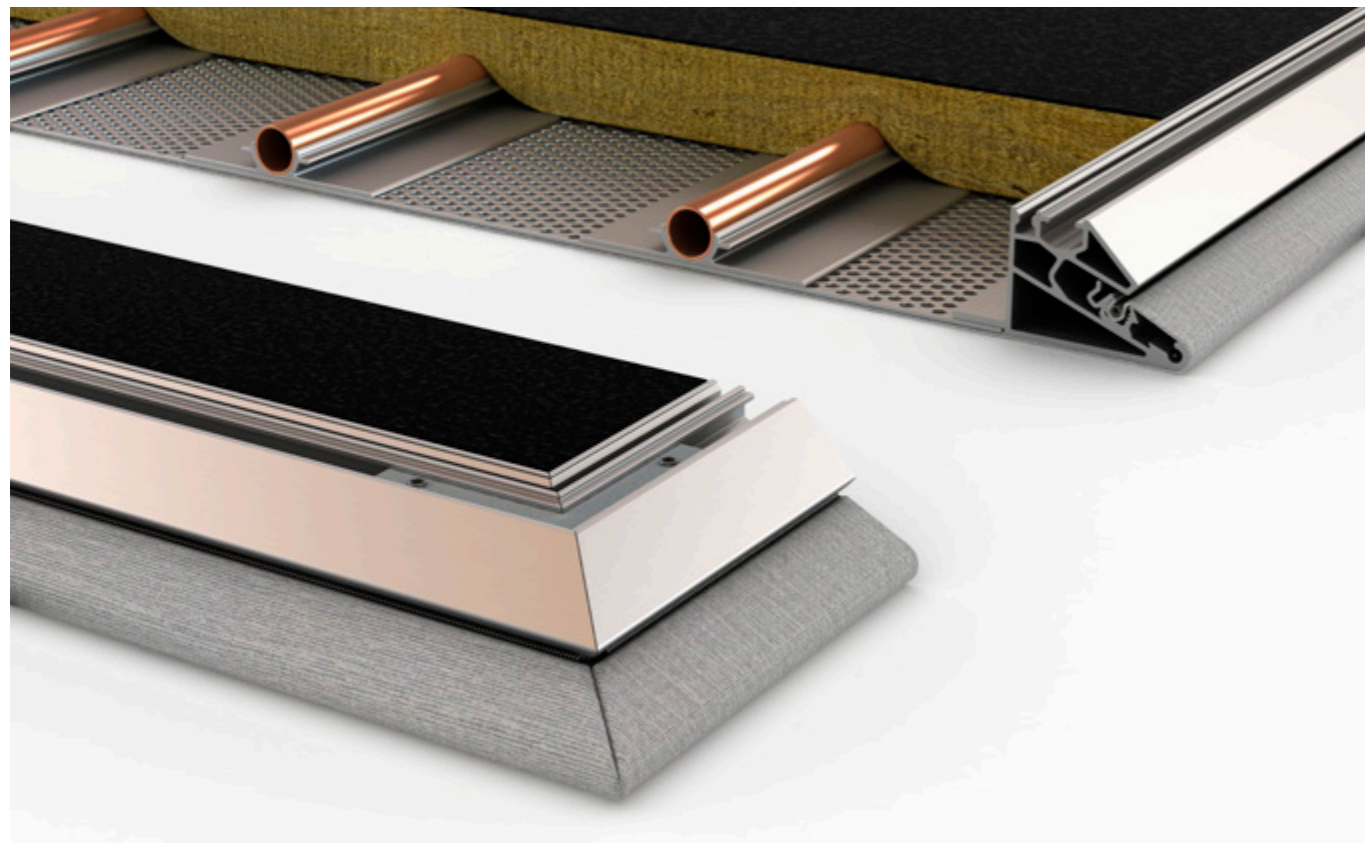
- Spaces with limited surfaces for acoustic regulation
- Architects and designers looking for a simple solution
- 15 panel sizes and a vast selection of textiles and colours



Weave radiant textile panels

Incorporate water pipes that heat or cool a radiant surface behind a specially engineered textile layer

- Aesthetic radiant solution
- Supports comfortable thermal environment
- Minimises need to allocate duct space
- Reduces maintenance greatly compared to fan coil solutions
- Low energy consumption
- Created in collaboration with Parc



Node

Radically simplifies M&E complexity, and enhances aesthetic quality of ceilings

- Standardised size, look and infrastructure requirements of individual components and appliances
- Effortlessly integrates M&E systems into a design scheme
- Easier to specify, install and maintain
- Seamless integrates Soft Cells solutions regardless of fitting method



Luminous Textile Panels

Incorporate multicolored LEDs behind tensioned textile layer and soften sound

- Design diverse ambiances
- Dampen noise and echoes
- Reinforce brand identity
- Create, edit and upload content with content manager
- Standard and custom sizes



OneSpace ceiling panels

Incorporates LEDs that spread light evenly through textile layer and optimises acoustics

- Transform interiors with tunable daylight-like light: range of 2,700-6.500 K
- Enhance acoustic quality
- Choose between 3000 K and 4000 K
- Custom and prefab standard sizes





Milla and Larry Pollock Family
Grand Staircase

The Coagross Courtyard

Client: Cleveland Clinic
Location: Ohio, USA
Architecture and design: Foster + Partners
Photography: Mark Wayner





Client: Amorepacific HQ
Location: Seoul, South Korea
Architecture and design: David Chipperfield Architects



Client: Nordea HQ
Location: Copenhagen, Denmark
Architecture and design: Henning Larsen architects
Photography: Lennart Søgård-Høyer



Client: Essendropsgate
Location: Oslo, Norway
Architecture and design: Kor Interior
Photography: Anne Bråtveit



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



Client: Leadenhall Building
Location: London, United Kingdom
Architecture and design: Advanced Interior Solutions



Client: Novartis
Location: Basel, Switzerland
Architecture and design: Herzog & de Meuron



Client: Price Industries
Location: London, United Kingdom



Client: Jazzcampus, Basel Music Academy
Location: Basel, Switzerland
Architecture and design: Buol & Zünd



About Kvadrat Acoustics

Kvadrat Acoustics creates fully customisable, high-performance acoustic solutions characterised by aesthetic excellence and exceptional versatility. In addition, we offer end-to-end project support, delivered by a global network of specialists.

We are dedicated to pushing the aesthetic and technological boundaries of acoustic solutions. Kvadrat Acoustics acoustic solutions set the benchmark for sustainability, flexibility and durability and are used in numerous visionary architectural developments all over the world including: AmorePacific, Tottenham Spurs Stadium, Galeries Lafayette, Cleveland Clinic, Under, The Royal Danish Library, PricewaterhouseCoopers, Rolls-Royce, West Bund Museum and Microsoft.

Kvadrat Acoustics is part of Kvadrat. A leader in design innovation, Kvadrat produces high-performing, design textiles, rugs, acoustics and window covering solutions for both commercial and residential interiors.

Client: Car manufacturer,
Location: Berlin Germany
Architecture and design: Christoph Mäckler Architekten

Selected references

Cultural

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

Education

Cleveland Clinic, Ohio, USA
Duke Kunshan University, Kunshan, China
Gefion Gymnasium, Copenhagen, Denmark
Imperial College, London, United Kingdom
Oxford University, Oxford, 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
Under, Lindenes, Norway

Music Halls and Auditoriums

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

Aedas HQ, Singapore
Amorepacific HQ, Seoul, South Korea
Bank of Montreal, London, United Kingdom
Bank PHB, London, United Kingdom
Barclays Bank, London, United Kingdom
BASF, Ludwigshafen, Germany
BNP Paribas, Brussels, Belgium
Boston Consulting Group, Frankfurt, Germany
BP, London, United Kingdom
British Land, London, United Kingdom

Cisco Systems, Lisbon, Portugal
Danfoss, Sønderborg, Denmark
Department of Health, London, United Kingdom
Drägerwerk AG, Frankfurt, Germany
Ernst & Young, Arnhem, Frankfurt, Germany
FC Bayern, Munich, Germany
Foster & Partners, London, United Kingdom
Gallup, London, United Kingdom
Google, Copenhagen, Denmark
Coca-Cola, Paris, France
HBOS, the Mound, Edinburgh, United Kingdom
HSBC, Dublin, Ireland
IBM, London, United Kingdom
International Chamber of Commerce, Paris, France
Maersk, Copenhagen, Denmark
Microsoft, Milan, Italy
National Bank of Kuwait, Kuwait City, Kuwait
Nordea HQ, Copenhagen, Denmark
Novartis, Basel, Switzerland
Philips, Hamburg, Germany
Price Industries, London, United Kingdom
PwC, Munich, Frankfurt, Hamburg, Germany
Schweizerische National Bank, Bern, Switzerland
Tottenham Hotspur, London, United Kingdom
XFEL, Hamburg, Germany
#Clouds.Paris, Paris, France

Public areas and lobbies

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

Other

Eastern High Court, Copenhagen, Denmark
International Criminal Court, The Hague, the 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

Notes

- ¹ Evans, Johnson, Cornell university, “Stress and open office noise”, *Journal of Applied Psychology*, 2000, vol. 85, no. 5, 779–783
- ² David M. Sykes, Ph.D., “Productivity: How Acoustics Affect Workers’ Performance In Offices & Open Areas”
- ³ Banbury, Berry, “The disruption office-related tasks by speech and office noise”, *British Journal of Psychology*, 1998, 89, 499–517
- ⁴ Weinstein, University of California, Berkeley, 1974, “Effect of noise on intellectual performance”, *Journal of Applied Psychology* 1974, vol. 59, no 5, 548–554
- ⁵ Evans, Johnson, Cornell university, “Stress and open office noise”, *Journal of Applied Psychology*, 2000, vol. 85, no. 5, 779–783
- ⁶ David M. Sykes, Ph.D., “How Acoustics Affect Human Productivity”
- ⁷ David M. Sykes, Ph.D., “How Acoustics Affect Human Productivity”
- ⁸ David M. Sykes, Ph.D., “Productivity: How Acoustics Affect Workers’ Performance In Offices & Open Areas”

