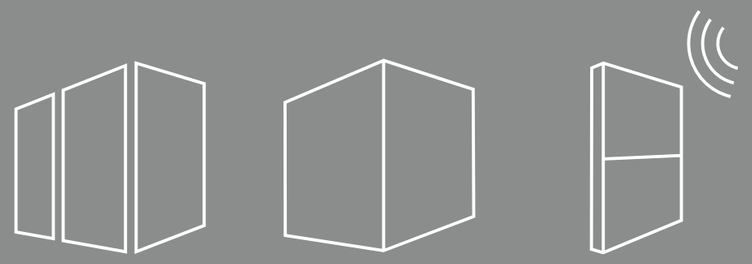
Welcome to the free-dimensional space.

Strähle
Raum-Systeme



A floor plan for today.
And tomorrow.

What makes good office space?

Rooms in companies, schools and universities are rooms for meeting and working. Office work in particular is diverse. Someone wishing to work undisturbed needs a quiet place. Whoever wants to brainstorm or discuss something, looks for team areas or conference space. Much work is dealt with at a desk in an open-plan office. Hardly anyone works in the same place all day. Today, work is more complex than just the choice between an office for a single person or open-plan.

Modern office concepts need to promote communication and creativity whilst ensuring concentration and confidentiality. Room systems by Strähle create rooms which fulfil these demands. They unite flexibility, quality and economy. Furthermore they fulfil the standards for sound insulation and fire protection and combine a high degree of functionality with exceptional aesthetics.

What makes good office space? We at Strähle have achieved a standard of quality and flexibility that we call "free-dimensional space". This means unlimited freedom of design combined with simple installation and modification. Strähle employs specialists who are well-versed in the fields of partition walls, room-in-room solutions and acoustics. That is why we always have a suitable, very individual answer to this question. Just ask us.

Florian, Werner and Paul Strähle

Content.

The free-dimensional space: Flexible, modular, varied.

The tasks involved in daily office life are becoming increasingly complex. Modern office concepts create rooms that are as diverse as the tasks that are completed in them. The office reflects the identity of the company and its design influences the work of employees. What solutions can combine high-quality architecture, economy and the requirements of users, and support work processes? What makes good office space? Does it create places which permit discretion and concentration as well as communication?

Partition wall, room-in-room, acoustics

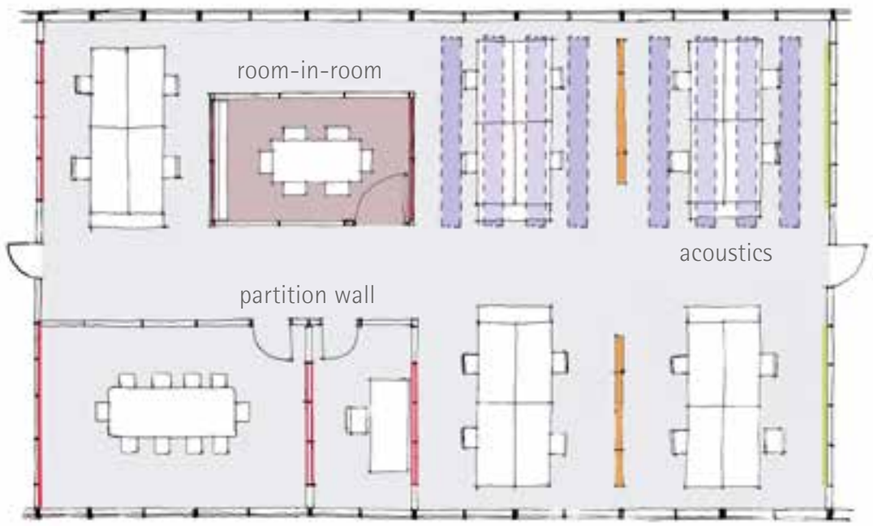
Open offices, closed offices, team areas, conference rooms: our solutions create rooms. Strähle is the specialist for partition wall, room-in-room and acoustic systems. On the basis of these three pillars, we develop concepts which combine functionality, economy and healthy working with a high-quality appearance. Our solutions improve the architecture and have a positive influence on motivation and performance.

For today's layout and also tomorrow's

Strähle provides for a diverse range of design possibilities for modern office landscapes. Our systems are compatible with one another and can therefore be used flexibly. Glass, wood, aluminium, metal, textiles – the design of each interior is individual thanks to a varied range of wall and acoustic elements. The modular construction provides specific solutions with a high degree of functionality. All of the elements are simple to assemble – and, should room requirements change, can be easily modified and used again.

The healthy office

The character of an office contributes considerably to the well-being of its users. Strähle develops its products with a holistic view of the requirements and needs of the users. They offer great insulation protection for concentrated work and, at the same time, transparency. The system joint of the partition walls is used for hanging furniture and accessories. Individually fitted shelves, flipcharts, coat racks and magnetic rails enable ergonomic design of individual workplaces. Partition wall solutions by Strähle create top-quality offices.



Company philosophy.

Modular partition wall systems for flexible room solutions

Quality, co-operation, partnership and reliability have determined our working methods for over 100 years. As a manufacturer and specialist for interior design, we consider ourselves connected with the handcrafting tradition.

We are a reliable partner

Tailor-made office worlds are developed in a joint process together with architects, planners and builders. Flexibly, individually and economically. For this reason we are continually developing our systems and modifying them to meet current requirements. We find the best possible solution with the best possible quality.

We are a family business

We see ourselves as a partner in tune with our customers, suppliers and service providers, as well as a being a reliable employer for our colleagues. We can look back on a long and successful company history. From generation to generation the spirit of innovation and customer orientation have characterised our work. Our systems are manufactured in Germany. That is important to us, and has been for over 100 years.

Our approach is sustainable

Unlike plasterboard walls, our partition wall systems are recyclable. All of our components can be disassembled and re-used. It takes a long time until that need arises, however. Our systems are characterised by an above-average service life. Due to their modular structure, they can be quickly and easily modified and re-used.

For us, sustainability is more than just a buzzword. The sustainability concept is firmly rooted in our products thank to their flexibility, modularity, long life cycle and selection of materials. We are an active member of the DGNB (German Sustainable Building Council) and are the first partition wall manufacturer in Germany to have developed a system based on the Cradle to Cradle principle.

Grown steadily, but still down-to-earth.

Strähle is a family business. Made in Germany. Everything began in **1911** in Waiblingen where the company's headquarters still are today. Paul Strähle founded the Strähle carpenter's workshop and made building elements and furniture for private and commercial customers.

1951 Klara Strähle continued the successful carpenter's workshop for building and furniture.

1967 Werner Strähle joined the company. A short while later, the first partition wall systems in wood were produced.

1975 Strähle continued to grow and moved into the new production site in Eisental, Waiblingen with 3000 m² of production space. The craftsman business evolved over the years into an efficient, progressive company which furnished numerous office buildings and schools with partition walls and cupboard units.

1986 was a milestone: the innovative System 2000 partition wall system with steel mullion construction was registered for patent. It is the foundation of the company's success - even today.

1997 Strähle continued to grow. The second production site was opened in Borkheide, south of Berlin. Partition wall systems are produced here in 3500 m² of production space and distributed to eastern and northern Germany. The export share also steadily increased, initially focussing on Switzerland and Austria but later featuring system partnerships throughout Europe.

2005 Paul Strähle and Florian Strähle joined the family company in the fourth generation.

2007 The production area in Waiblingen was extended to include a modern logistics and dispatch facility with an additional 2500 m² of space.

Paul Strähle took over the management of Strähle Raum-Systeme GmbH in **2009** together with Werner Strähle.

2014 The Kubus II room-in-room systems won the Architecture + Office Innovation Award at the Orgatec.

Paul, Florian and Werner Strähle.

2010 The Strähle Acoustic Workshop was opened in Waiblingen. It functions both as a showroom and training centre for partition wall systems and acoustic solutions.

2015 Strähle continued to grow. The Borkheide production site was enlarged to include an additional dispatch and warehouse facility and now has a total area of around 6000 m².

2011 Happy Birthday! In October, Strähle celebrated its 100th anniversary in Waiblingen together with over 700 customers, business partners and employees. The newly designed showrooms and office space were opened. Developers, architects and project developers can experience over 1400 m² of Strähle partition wall systems in an innovative and detailed showroom.

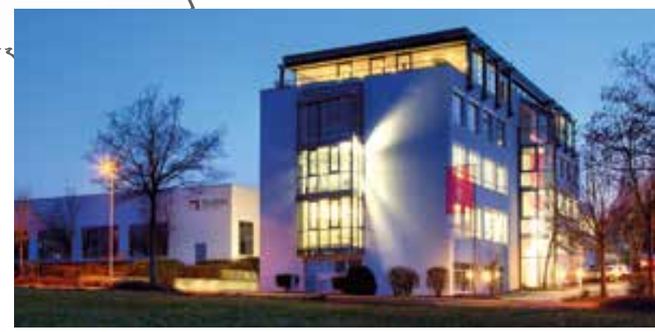
2017 In May Strähle celebrated the 20-year anniversary of the production site in Borkheide with staff and suppliers.

Quality made in Germany.

We are always there where our customers need us. Strähle's roots lie in the southern German town of Waiblingen, where the headquarters are still located today. Since 1997, the company also produces and distributes from its factory in Borkheide near Berlin. We deliver to customers throughout Germany and Europe from both sites – quickly, economically and reliably.

Borkheide became our second production site in 1997. From here we support and supply customers in northern and eastern Germany as well as in exporting countries such as Great Britain and Luxembourg. Turnover and the number of employees in Borkheide are growing steadily. In 2015, the existing space was extended to 6.000 m² to include an additional dispatch and warehouse facility.

Waiblingen is the home of Strähle. Here, we live and breathe the renowned "Swabian inventiveness" common in the south of Germany. In 8000 m² of office and production space, Strähle is working on making modern room partitioning possible and on reliably implementing projects. Our offices are also exhibition space. Here, in our Skyoffice and the Acoustic Workshop, planners and developers can experience our solutions in action.



Showroom.

Welcome

Strähle presents a comprehensive overview of its room systems and acoustic solutions in the offices and showrooms in Waiblingen. The showroom is simultaneously a workplace, information area and a living example of how to modernise existing office rooms. Here architects, planners, acousticians and office workers can hear the excellent room acoustics and experience the sheer diversity of our solutions.

Acoustic Workshop

The effect that sound-absorbing and sound-insulating measures have on the room and building acoustics is presented in exemplary room situations. Different sound insulation values of the walls and reverberation times in the rooms can be observed in person. The Strähle Acoustic Workshop is both a showroom and a training centre. Architecturally complex partition wall and acoustic solutions for today's and tomorrow's office worlds are presented on an area covering more than 350 m². Here, acoustics are an experience.

Skyoffice

Both representative and spacious, the Skyoffice on the top floor is fascinating with its sweeping view of the surrounding vineyards. As a variable conference and office area of the highest standard, we can demonstrate how rooms can be used for presentations, training or conferences.

The original.

Partition wall systems
A floor plan for today.
And tomorrow.

System 2000
The basis of the flexible and modular partition system is the patented Strähle mullion construction with integrated suspension units for organisation elements.

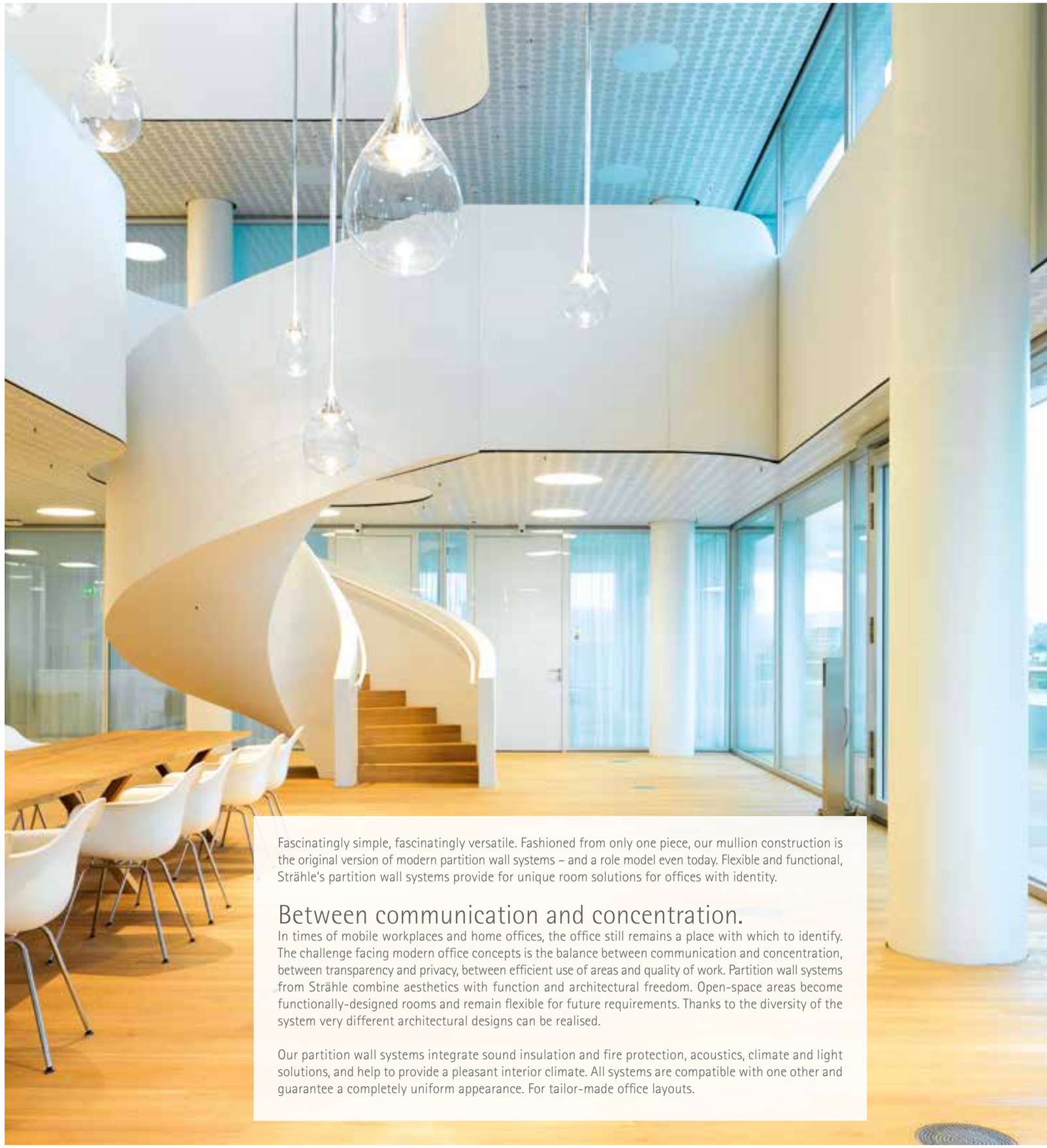
System 2300
The innovative partition wall system is the flush bonded variant of the System 2000. It is characterised by its mirror-like glass look and boasts high sound insulation levels.

System 3400
Without vertical mullions, this variable all-glass system with single glazing combines transparency and a high degree of economy. Its elegance and short assembly times are particularly impressive.

System 3500
The double-glazed fully glazed system without vertical mullions combines maximum transparency and high sound insulation values.

System T
A warm atmosphere, formal reduction. System T with its wood mullion/transom construction impresses with the contrast between its wooden profiles and flush-fit glazing.

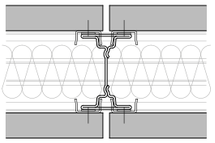
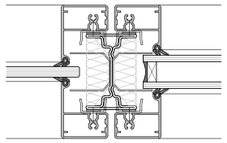
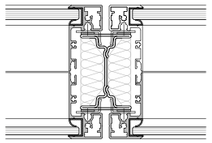
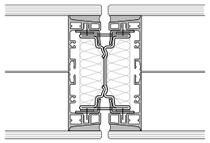
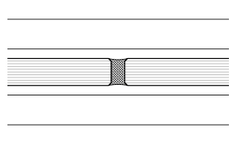
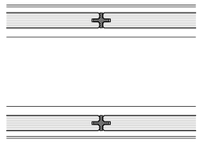
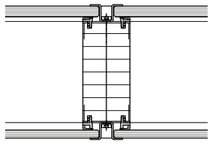
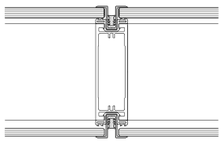
System MTS
The MTS partition wall consists of a delicate aluminium mullion/transom construction with visible widths of only 25 mm. The flush-fit glazing look provides for an airy and elegant appearance.



Fascinatingly simple, fascinatingly versatile. Fashioned from only one piece, our mullion construction is the original version of modern partition wall systems – and a role model even today. Flexible and functional, Strähle's partition wall systems provide for unique room solutions for offices with identity.

Between communication and concentration.
In times of mobile workplaces and home offices, the office still remains a place with which to identify. The challenge facing modern office concepts is the balance between communication and concentration, between transparency and privacy, between efficient use of areas and quality of work. Partition wall systems from Strähle combine aesthetics with function and architectural freedom. Open-space areas become functionally-designed rooms and remain flexible for future requirements. Thanks to the diversity of the system very different architectural designs can be realised.

Our partition wall systems integrate sound insulation and fire protection, acoustics, climate and light solutions, and help to provide a pleasant interior climate. All systems are compatible with one other and guarantee a completely uniform appearance. For tailor-made office layouts.

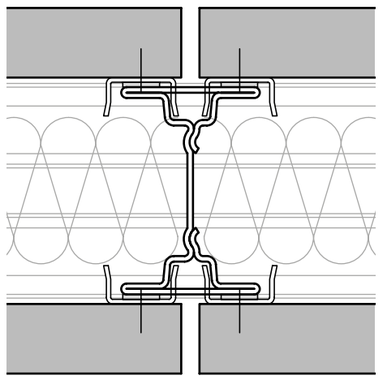
Design	Mullion based wall system				Fully-glazed wall system		Post and beam construction		Design
Partition wall system	System 2000			System 2300	System 3400	System 3500	System T	System MTS	Partition wall system
Description	Demountable modular partition wall system based on the patented Straehle steel mullion with variable panelling options and high sound and fire ratings. A wide range of door solutions supplement the system.			Structural glazing variant of the system 2000 family with flush glazed aesthetic	Variable fully-glazed wall system without mullions with single layer glazing	Double-glazed framed wall system without mullions for maximum transparency	Timber based post-and-beam partition wall system with flush glazing	Variable aluminium post-and-beam partition wall system with minimal section sizes	Description
	solid wall	Central glazing	Flush glazing	Flusg-bonded glazing	Glass wall	Glass wall	Glass wall, solid wall	Glass wall, solid wall	
Detail									Detail
Photo									Photo
Finish Surface/ material	Melamine, veneer, HPL or laquered, metal cassettes, absorber elements	Single glazing with toughened/laminated glass or insulating glass	Double glazing and single glazing possible with toughened/laminated glass	Double or single glazing with flush bonded toughened or laminated glass	Variable single glazing section for 10 - 24 mm, toughened/laminated glass	Variable single glazing section for 10 - 12 mm, toughened/laminated glass	Variable single glazing section for 10 - 24 mm, toughened/laminated glass	Double glazing 6-8 mm, toughened/laminated glass	Finish Surface/ material
Element types	Solid wall, Transverse subdivision to choice	All-glass, toplight, balustrade	All-glass, toplight, balustrade	All-glass, toplight, balustrade	All-glass, toplight, balustrade	All-glass, toplight, balustrade	All-glass, toplight, balustrade, solid wall	All-glass, toplight, balustrade, solid wall	Element types
Wall thickness	100/125 mm, Special version 160 mm	100/125 mm	100/125 mm	100/125 mm	20 - 55 mm	100 mm	100 mm	100 mm	Wall thickness
Sound insulation	up to $R_{w,P}$ 44 - 56 dB Special version 58 dB	$R_{w,P}$ 30 - 42 dB, Sonderausführung 50 dB	$R_{w,P}$ 30 - 52 dB	$R_{w,P}$ 41 - 54 dB	$R_{w,P}$ 32 - 41 dB	$R_{w,P}$ 40 - 47 dB	$R_{w,P}$ 41 - 44 dB	$R_{w,P}$ 42 - 47 dB	Sound insulation
Fire rating	F 30/F 90	F 30	F 30	F 30	–	–	–	–	Fire rating
Special elements	Acoustic absorption elements, climate control elements, accessory systems	Acoustic absorption elements, climate control elements, accessory systems, blinds	Acoustic absorption elements, climate control elements, accessory systems, blinds	Acoustic absorption elements, climate control elements, accessory systems, blinds	Acoustic absorption elements	–	Acoustic absorption elements, climate control elements, blinds	Acoustic absorption elements, climate control elements, blinds	Special elements

Reserve technical changes

System 2000

Design with mullion

SOLID WALL



DESIGN:
Design with mullion
OPTIONS:
Solid wall
ELEMENT TYPES:
Solid wall, balustrade, toplight, fully-glazed
WALL THICKNESS:
100 / 125 mm
CEILING HEIGHT:
Up to 6 m
VISIBLE WIDTH:
5 mm joint
SOUND INSULATION:
44 - 56 dB
FIRE PREVENTION:
further details upon request
DOORS:
Solid doors, aluminium frame doors, sliding doors, flush-bonded glazing doors, fully glazed doors, fire protection doors
ACCESSORIES:
Acoustics absorbers, blinds, accessory systems

Modern classics.

System 2000 is the modern classic amongst the Strähle partition walls. The system was developed for maximum flexibility and diversity of design and thus allows room structures to be adjusted simply and economically to new situations at any time.

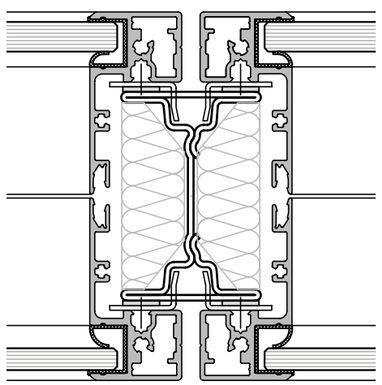
It fulfils the highest standards of sound insulation and fire protection and is compatible with all Strähle partition wall systems. Shelving, magnet rails and other practical accessories can be attached at the system's joints without the use of tools enabling the individual design of workplaces. Partition walls can be built as solid walls using System 2000. It is very easy to insert and exchange the elements.

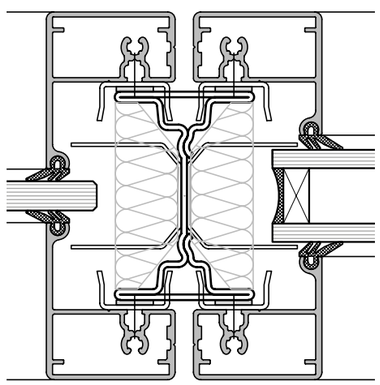
System 2000

Design with mullion

GLASS WALL

DESIGN:
Mullion construction
VERSION:
Centre glazing and flush-fronted glazing with toughened glass/laminated glass
ELEMENT TYPES:
Balustrade, clerestory, fully glazed
WALL THICKNESS:
100/125mm
CEILING HEIGHT:
Up to 6 m
VISIBLE WIDTH:
2 x 25 mm/2 x 35 mm
SOUND INSULATION:
Up to 30 - 52 dB $R_{w,P}$
FIRE PROTECTION:
F 30
DOORS:
Solid doors, Aluminium frame doors, sliding doors, flush-bonded doors, fully glazed doors, fire protection doors
ACCESSORIES:
Absorbers, blinds, flow ducts, accessory systems





Glass wall with front-flush frame or centre glazing.

The patented mullion construction is the skeleton of this flexible, modular glass partition wall system. The elements can be implemented with either front-flush glazing or centre glazing and are particularly easy to install and change. The modular design enables a number of different element types to be used, including toplight walls, balustrade walls and all-glass walls. The system is rounded off by a large number of frame and door solutions.

System 2000 eco

Design with mullion

SOLID WALL, GLASS WALL

cradle to cradle®

The first C2C® certified system partition wall made in Germany

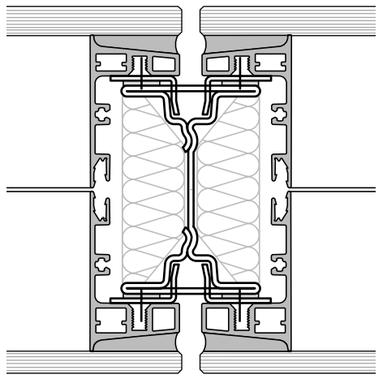
Nature as a role model.

Strähle developed the first C2C-certified partition wall made in Germany. Based on System 2000, a partition wall was developed for which only materials, raw materials and resources are used which after use can be retrieved and recycled without loss in accordance with the Cradle-to-Cradle® design concept. Thus we have translated the sustainability concept into high-quality architecture. System 2000 eco has been certified as a solid wall with front-flush glazing and doors with an aluminium frame.

System 2300

Design with mullion

FLUSH BONDED GLAZING



DESIGN:
Mullion construction
VERSION:
Structural Glazing
ELEMENT TYPES:
All-glass, toplight, balustrade
SURFACES:
Glass wall
(toughened glass/laminated glass)
BONDING:
Light grey
(black and white upon request)
WALL THICKNESS:
100/125 mm
VISIBLE WIDTH:
Frame width 2 x 25 mm/2 x 35 mm
HEIGHTS:
Ceiling height up to six metres possible
SOUND INSULATION:
41 - 54 dB
FIRE PROTECTION:
F 30
DOORS:
solid doors, aluminium frame doors, sliding doors, flush-bonded doors, fully glazed doors, fire protection doors
ACCESSORIES:
Absorbers, blinds, flow ducts, accessory systems

Innovative glazing, flush-fit look.

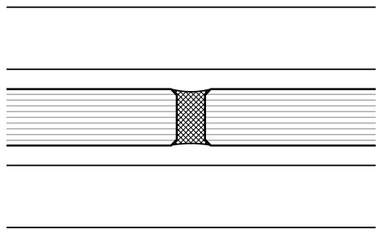
The extremely modern partition wall System 2300 is the flush bonded variant of System 2000. It is characterised by its mirror-like glass look and boasts high sound insulation levels. Like its system sibling, it is highly flexible and based on a modular system which uses the patented Strähle mullion construction with integrated suspension units.

The glass is manufactured as all-glass elements and inserted in the substructure on both sides. If noise insulation requirements are increased and ceilings are higher, we recommend the system variant with 125 mm wall thickness..

System 3400

Fully glazed wall

SINGLE GLAZING



DESIGN:
All-glass design
VERSION:
Single glazing 10 - 24 mm
toughened glass/laminated glass
ELEMENT TYPE:
All-glass,
SURFACE:
Aluminium profiles in E6/EV1
or powder-coated
WALL THICKNESS:
22 - 50 mm
GLASS EDGING:
Silicon joint, cross profile
dry joint or bonding
SOUND INSULATION:
32 - 41 dB
DOORS:
All-glass doors, aluminium
frame doors, solid doors,
sliding doors
ACCESSORIES:
Absorber elements
(fitted as a shell in front of the glass)

Reduced to the design minimum.

Maximum transparency. Without vertical mullions, this variable fully glazed system combines maximum transparency and a high degree of economy. Its elegance and very short assembly times are particularly impressive. The glass walls are also available with curved corners.

System 3500

Fully glazed wall

DOUBLE-GLAZED WALL

DESIGN:
All-glass construction
without vertical posts
VERSION:
Double glazing 10 - 12 mm
toughened glass/laminated glass
ELEMENT TYPE:
All-glass, ceiling-high
SURFACE:
Anodised or powder-coated
aluminium profiles
DIMENSIONS:
Width: Up to max. 1300 mm
Height: Up to max. 3000 mm
Wall thickness:
100 mm Glass
EDGING:
Bonding/cross-profile dry joint
DOORS:
solid doors, aluminium
frame doors, structural
Glazing doors, all-glass doors
SOUND INSULATION:
40 - 47 dB

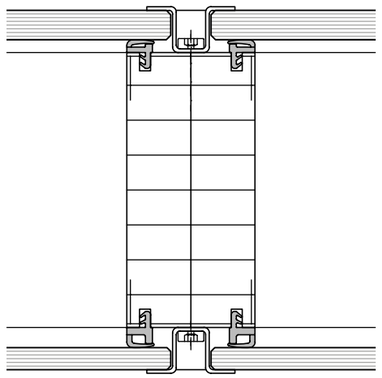
Maximum transparency without vertical profiles.

The System 3500 has been reduced to the essentials, whilst offering maximum transparency and high noise protection. The double-glazed system without vertical mullions provides an elegant ambience and is particularly suitable for corridors.

System T

Mullion/transom construction

GLASS WALL



DESIGN:
Wood mullion/transom construction with flush-fit glazing
IMPLEMENTATION:
Double glazing 6 - 8 mm toughened glass/laminated glass
ELEMENT TYPES:
All-glass, toplight, balustrade, solid wall
SURFACE:
Mullions veneered or painted as desired
WALL THICKNESS:
100 mm
VISIBLE WIDTH OF MULLIONS:
35 mm
SOUND INSULATION:
41 - 44 dB
DOORS:
Solid doors, all-glass doors, sliding doors
ACCESSORIES:
Wooden absorbers, blinds, flow ducts

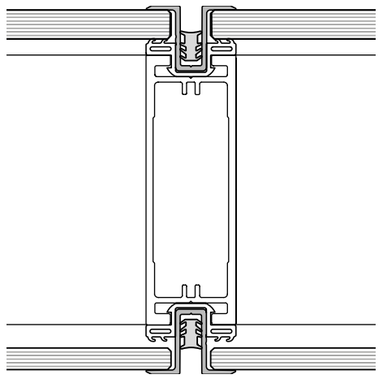
Warm atmosphere, formal reduction.

This combination is unique in the partition wall sector: the high-quality and stylish aesthetic of the System T are achieved using the contrast between the wooden surfaces and flush-fit glazing. The substructure of laminated wood mullions has a visible width of just 35 mm. The flush-fit glazing is fitted using visible stainless steel clips, which makes the system so special. Wood – a carbon-neutral building material – emphasises the idea of sustainable architecture.

System MTS

Mullion/transom construction

FULLY-GLAZED



DESIGN:
Mullion/transom construction
VERSION:
Double glazing 6 - 8 mm toughened glass/laminated glass
ELEMENT TYPES:
All-glass, toplight, balustrade, solid wall
WALL THICKNESS:
100 mm
VISIBLE WIDTH:
25 mm
SOUND INSULATION:
42 - 47 dB
DOORS:
Solid doors, all-glass doors, sliding doors
ACCESSORIES:
Absorbers, blinds, flow ducts

Delicate profile and generous grid dimensions.

Elegance and airiness. The MTS partition wall consists of a delicate aluminium mullion/transom construction with visible widths of only 25 mm. Combined with flush-fit glazing, it is airy and elegant in appearance. The cross profiles are fixed to the vertical mullions by means of a specially developed force-locking connection. The slim design with high rigidity allows for generous grid dimensions. Like all Strähle systems, this one also uses a modular design and is quick to fit.

Door systems.

The right door for each system

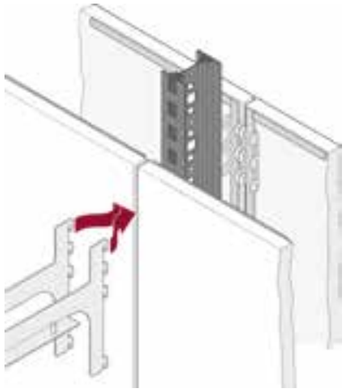
The door systems are as varied as our room systems. Strähle offers solid doors, aluminium frame doors, flush bonded doors, fully glazed doors, sliding doors and fire protection doors. Depending on their location and use they fulfil a number of different functions: sound insulation, fire or smoke protection, emergency exit, access control, automation and convenience functions. Whatever their function their appearance fits in with any of the partition wall systems.

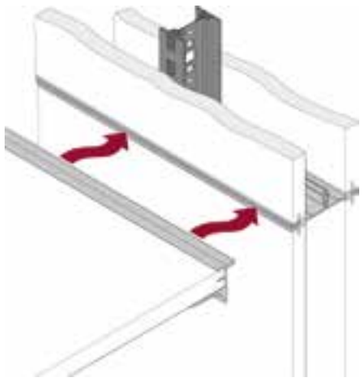
Organisational systems.

Vertical and horizontal organisation

The intelligent wall.

Walls from Strähle fulfil a function and a design. We always develop our products with a holistic view of the requirements and needs of the users. The system joint of the partition walls is used for hanging organisational elements. Shelves and sideboards, flipcharts, coat racks, door plates, magnetic rails and other extras are attached tool-free in just a few movements. Offices can thus be arranged individually and quickly. They can also be flexibly changed if requirements change.





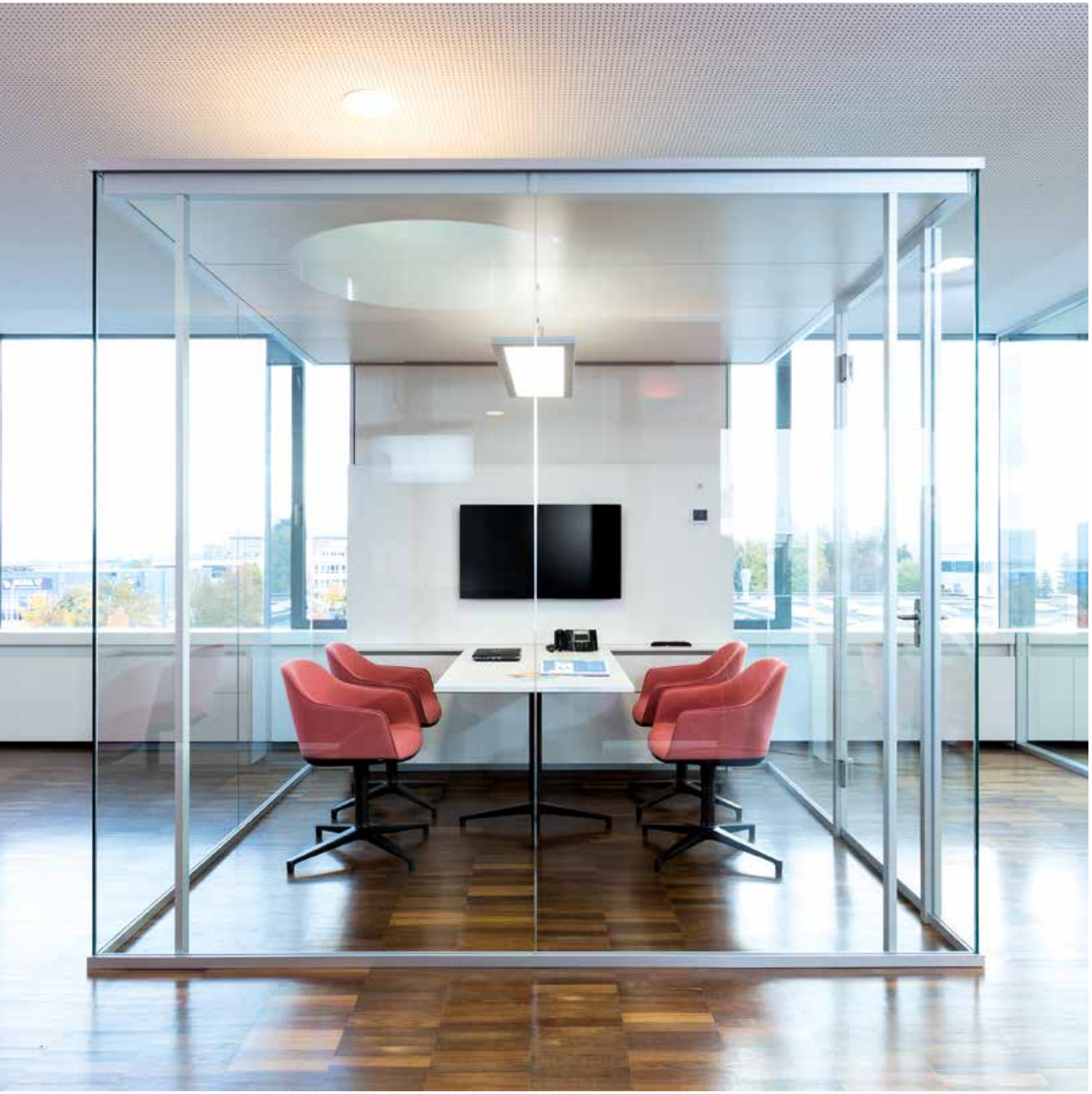
Cupboards and room dividers.

Storage space marvel

Efficient use of space is a fundamental requirement in planning offices. Strähle has developed the cupboard systems 5000 and MTS which are integrated into the partition walls. They not only offer a uniform design, but also more storage space despite using a smaller surface area.

MTS is a storage space solution which integrates cooling convectors, acoustic elements and lighting at the same time. In this way, MTS supports integral planning concepts which aim to save valuable energy and resources through intelligently linking the building structure and decentralised technology.

The cupboard systems ideally complement the partition wall systems from Strähle. The identical floor and ceiling fittings help to create a harmonious, unified design solution. The systems can be fitted as an individual cupboard using the continuous construction principle, as a cupboard wall, or as a room divider.



Kubus

New rooms in open spaces
Room-in-room solutions
for modern office concepts.

Kubus I
The room-in-room system with single glazing offers transparent areas of retreat in expansive offices.

Kubus II
The room-in-room system with double glazing combines aesthetics and functionality.

Kubus II - T
Highly sound-insulated wood/glass Kubus with double glazing

Retreat,
conference room,
think tank:

Strähle room-in-room systems create new rooms in open spaces. They enhance modern, open office concepts and contribute considerably to their acceptance. The room-in-room systems combine top-level design with technology, functionality and quality. All technical elements integrated into the system are almost invisible. That is what makes the Kubus systems so special. And it is also why the Kubus II won the Architecture + Office Innovation Award.

All functions at a glance

The room-in-room systems combine top-level design with technology, functionality and quality. That is what makes the Kubus systems so special. It is also why the Kubus II won the Architecture + Office Innovation Award. The jury's explanation was: "All the technical elements are not just added, but are integrated almost invisibly into the Kubus system." All equipment features are available for both of the Kubus systems.

Excellent room solution

The Kubus models do not need to be connected to any part of the building such as the façade, the wall or the ceiling. Free from building technology they can be freely positioned in a room and enable efficient use of space without detracting from the transparency. The modular construction is flexible and can be configured in various sizes. Kubus can be moved at any time thanks to simple assembly and disassembly.

INNOVATIONSPREIS ARCHITEKTUR + OFFICE

1 VENTILATION
Soundproofed ventilation system with stepless comfort mode up to 150 m³/h, intensive airing up to 210 m³/h.

2 LIGHTING
LED pendant light with direct and indirect light distribution.

3 SOUND INSULATION
The Kubus is highly sound-insulated and is suitable for confidential meetings. Sound insulation levels depending on construction up to 32 / 37 / 42 dB (R'_w).

4 COOLING
Optionally, a cooling convector can be integrated into a sideboard for connection to the cold water network on the building side with a flow/return of 16/18°C.

5 SELF-CONTAINED COOLING
Optionally, cooling can be operated with a self-contained electric water cooler in the ceiling without a water connection in the building.

6 CEILING PANELS
The micro-perforated, highly sound-insulated metal ceiling provides for optimal room acoustics and allows the integration of safety features and equipment.

7 WALL ABSORBERS
The combination of wall and ceiling absorbers achieves very good room acoustics without flatter echos and reverberation times of < 0.5 s.

8 MODULAR WALL DESIGN
Kubus is a flexible room system and can be equipped with integrated whiteboards or shelving systems.

9 MULTIFUNCTION DISPLAY
Temperature, ventilation and lighting are regulated using a touch display with intuitive user guidance and automatic mode.

10 STATICS
The Kubus system is statically tested and has a structural stability certificate.

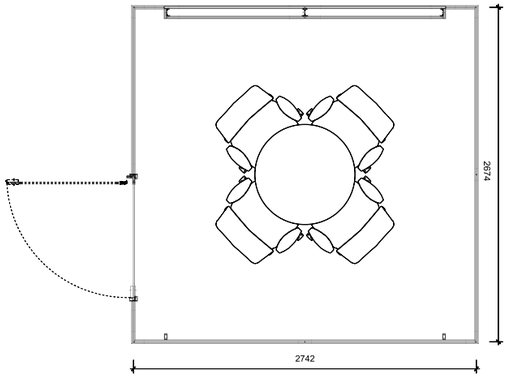
Discretion with a maximum of transparency and openness.

The fully glazed Kubus enables transparent areas for retreat in expansive office spaces. The aluminium construction with single glazing flush-fit on the outside creates a clean, elegant appearance. At the same time the good sound insulation values and the integrated ventilation unit offer a high degree of work comfort. Whether a think tank or a conference room: Kubus I supports open-space concepts designed for spaciousness and transparency.

Kubus I

Room-in-room-system

SINGLE GLAZING



DESIGN:
Fully glazed cube with aluminium supporting structure

DIMENSIONS:
Lengths: 2.706 / 3.956 / 5.206 mm
Width: 2.774 mm
Height: 2.500 mm

GLAZING:
10 mm toughened glass /
16 mm laminated glass

INNER SUPPORTS:
E6/EV1 aluminium support, 50 x 25 mm, structural stability certificate is available

DOORS:
GG 10: 10 mm all-glass door with floor seal, 34 dB $R_{w,P}$; AR 40: 40 mm aluminium frame door with 12 mm SI laminated glass glazing, 39 dB $R_{w,P}$

CEILING:
Micro-perforated double-shell metal cassette, RAL 9016 white

SOUND INSULATION:
10 mm toughened glass: $D_{n,T,w}$ = 28 dB (equivalent to R'_w of approx. 34 dB)
16 mm laminated glass: $D_{n,T,w}$ = 32 dB (equivalent to R'_w of approx. 39 dB)

VENTILATION:
Integrated combined ventilation and air extraction device, output of up to 210 m³/h

CONTROL:
Multifunction touch display to control lighting and ventilation

COOLING (OPTIONAL) – KUBUS I C:
Cooling convector integrated into the sideboard for connection to the building's cold water network

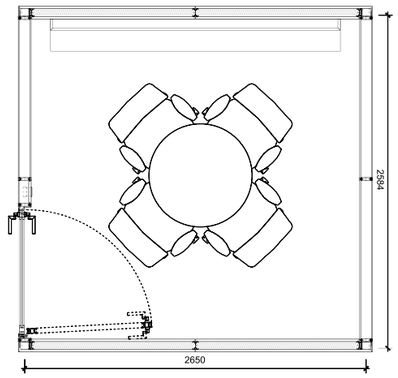
SELF-CONTAINED COOLING (OPTIONAL) – KUBUS I PLUS:
Independent electrical cooling element on the roof of the Kubus as a plug-and-play solution

Kubus II

Room-in-room-system

DOUBLE GLAZING

DESIGN:
Modular room-in-room system with double glazing
DIMENSIONS:
Lengths: 2.684 / 3.934 / 5.184 mm
Grid dimension for glazed elements: 1.250 mm
Width: 2.750 mm
Height: 2.530 mm
SOLID WALL:
System 2000 with integrated acoustic elements
GLAZING:
6 and 8 mm toughened glass
SOUND INSULATION:
Norm sound level diff erence $D_{n,T,w}$ = 36 dB (corresponds to a sound insulation value of R'_w = 42 dB)
STABILITY:
Structural stability certificate available
VENTILATION:
Integrated combined ventilation and air extraction device, output of up to 210 m^3/h
COOLING (OPTIONAL) – KUBUS II C:
Comfort cooling device integrated in side-board for connection to the building's cold water network
INDEPENDENT COOLING (OPTIONAL) – KUBUS II C:
Independent electrical cooling unit as plug-and-play solution



Glass think tank.

The Kubus II room-in-room system meets the highest standards of aesthetics and functionality. The elegant architecture with filigree visible widths, and flush-fit glazing on the outside, can be easily integrated into a range of different office space concepts. Excellent sound insulation values up to $D_{n,T,w}$ = 36 dB (equivalent to a sound insulation value R'_w = 42 dB) guarantee a concentrated work climate. Noises from and to the exterior are shielded. In the middle of the day-to-day hustle and bustle of the office, the highly sound-insulated Kubus II stands in the open space like an island.

Kubus II-T is a highly soundproofed wood-glass Kubus based on the successful Kubus II design. The high-quality and stylish aesthetic of the wood mullion/transom construction of System T is achieved using the contrast between the wooden surfaces and the glazing. The flush-fit glazing and the narrow visible width of the laminated wood mullion substructure contribute to the elegant design. By using wood as a CO_2-neutral building material, this Kubus variant supports sustainable architectural concepts.

Kubus II - T

Room-in-room-system

MULLION / TRANSOM CONSTRUCTION

DESIGN:
Modular cube with double glazing in wood / glass look
DIMENSIONS:
Lengths: 2,684 / 3,934 / 5,184 mm;
Width: 2,750 mm;
Height: 2,530 mm
WALL THICKNESS:
100 mm
GLAZING:
6 and 8 mm toughened glass
DOOR:
64 mm solid door or 10 mm all-glass door ($R_{w,P}$ 37 / 32 dB)
SOUND INSULATION:
Norm sound level difference $D_{n,T,w}$ = 36 dB (equivalent to R'_w = 42 dB)
ROOM ACOUSTICS:
Micro-perforated absorber integrated in solid wall and ceiling
CONTROL:
Touch display to control lighting and ventilation (optional cooling)
VENTILATION:
Steplessly adjustable comfortable operation up to 210 m^3/h, integrated in system ceiling
COOLING (OPTIONAL):
Comfort cooling device in sideboard for connection to the building's system or ndependent operation via electrical cold-water exchanger on Kubus ceiling

Acoustic systems.

Optimum acoustics for every room situation.

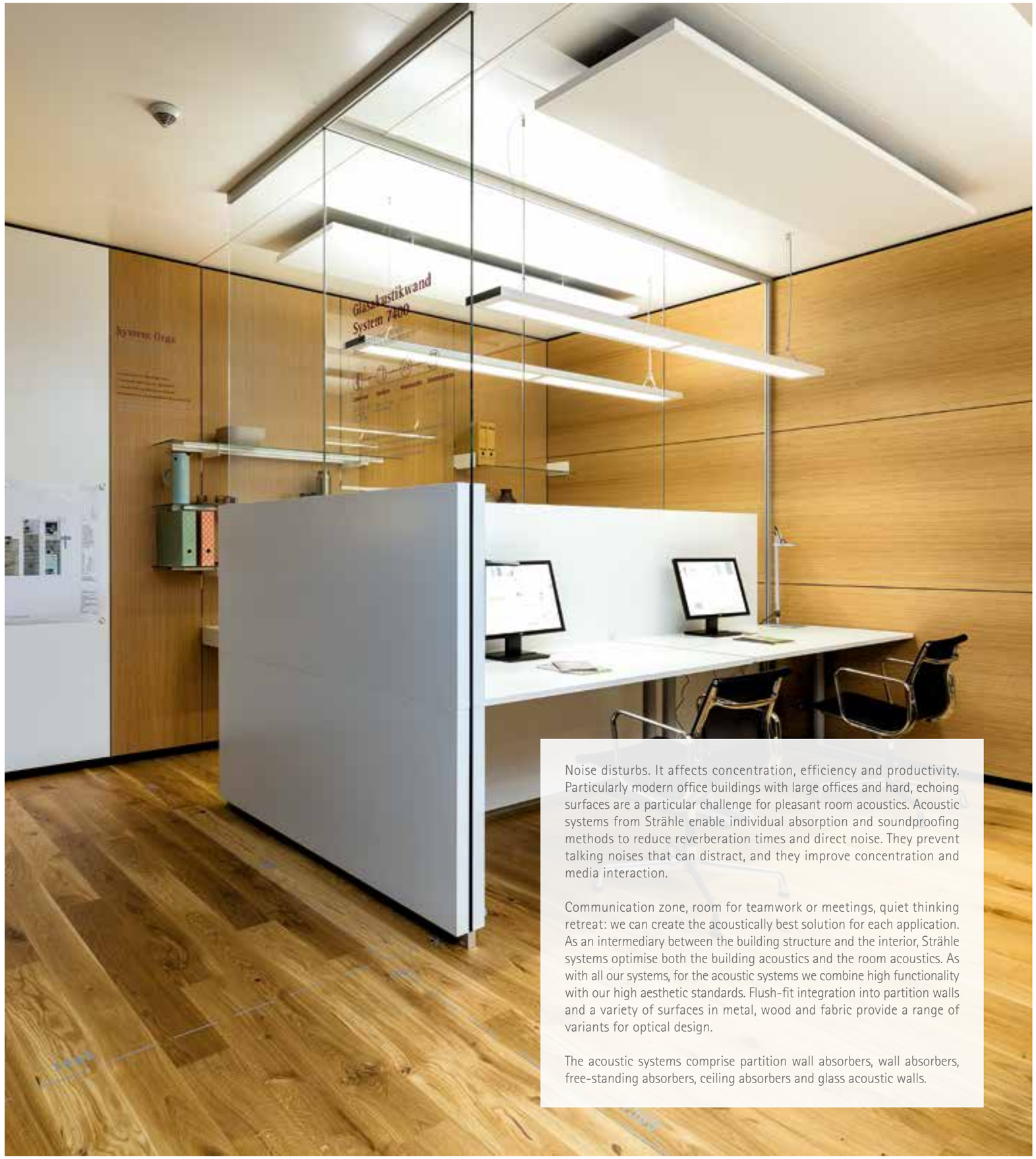
Partition wall absorber
System 7000
Flush-fit integration into a system partition wall

Wall absorber
System 7100
For application on an existing wall

Free-standing absorber
System 7200
For creating zones in open spaces

Ceiling absorber
System 7300
In sail form, also for use in concrete core active ceilings

Glass acoustic wall
System 7400
Room-high glass elements in combination with wall and ceiling absorbers



Noise disturbs. It affects concentration, efficiency and productivity. Particularly modern office buildings with large offices and hard, echoing surfaces are a particular challenge for pleasant room acoustics. Acoustic systems from Strähle enable individual absorption and soundproofing methods to reduce reverberation times and direct noise. They prevent talking noises that can distract, and they improve concentration and media interaction.

Communication zone, room for teamwork or meetings, quiet thinking retreat: we can create the acoustically best solution for each application. As an intermediary between the building structure and the interior, Strähle systems optimise both the building acoustics and the room acoustics. As with all our systems, for the acoustic systems we combine high functionality with our high aesthetic standards. Flush-fit integration into partition walls and a variety of surfaces in metal, wood and fabric provide a range of variants for optical design.

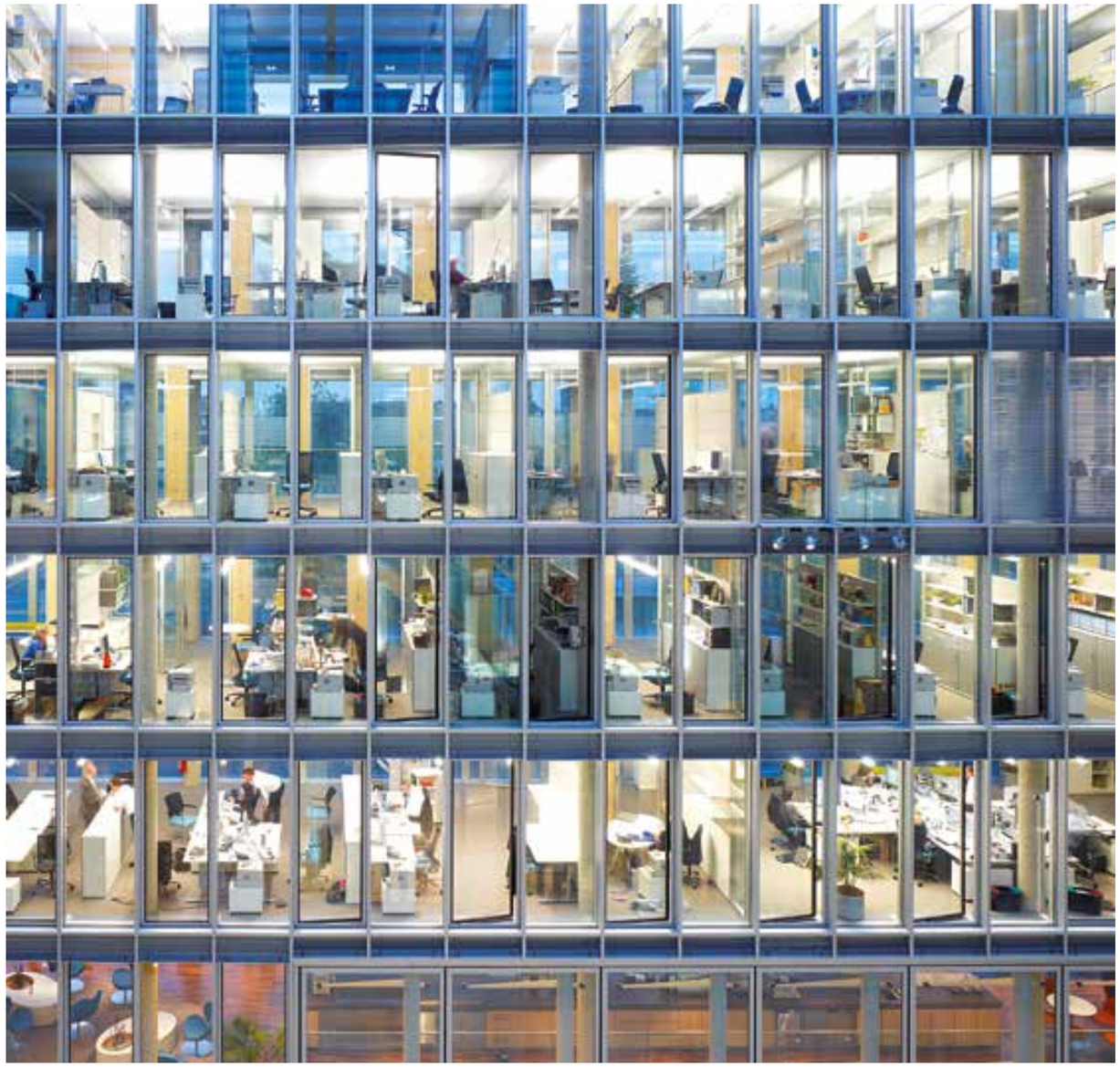
The acoustic systems comprise partition wall absorbers, wall absorbers, free-standing absorbers, ceiling absorbers and glass acoustic walls.

All ears.

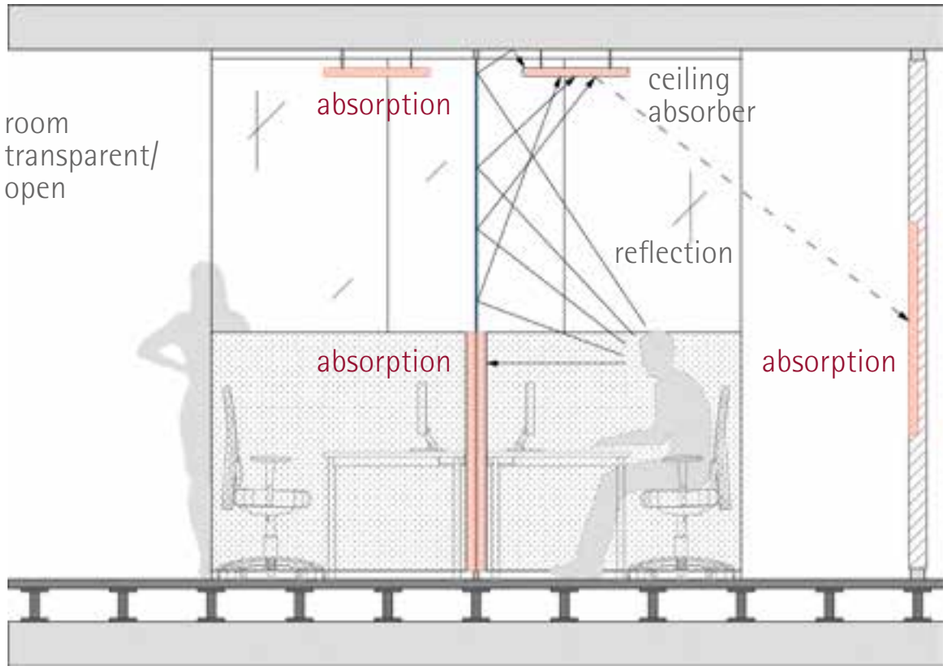
Experts on acoustics.

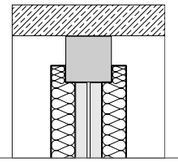
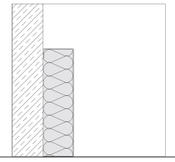
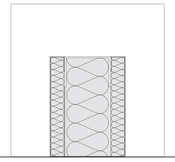
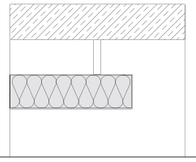
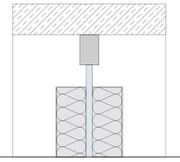
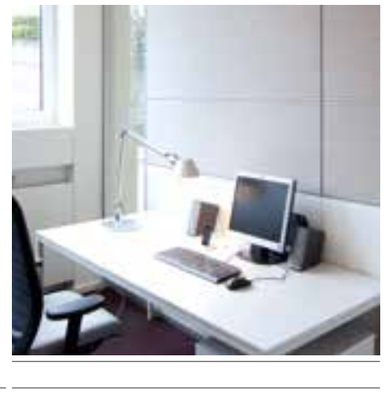
Acoustic room optimisation is essential for the design of up-to-the-minute office concepts. On the one hand it follows the developments of modern building with hard surfaces of glass and concrete, including ceilings activated as part of the building. On the other hand, with raised sensitivity and human awareness, it fits into today's increasingly mobile and communicative world of work.

At Strähle, experts pay attention to all relevant aspects of acoustics for a pleasant working environment. Together with our project partners, we plan and develop specific solutions and compile tailor-made sound protection concepts from the wide range of acoustic elements. Strähle acoustic systems optimise the acoustics for using different rooms, they increase the efficiency of work processes and ensure a pleasant working environment.



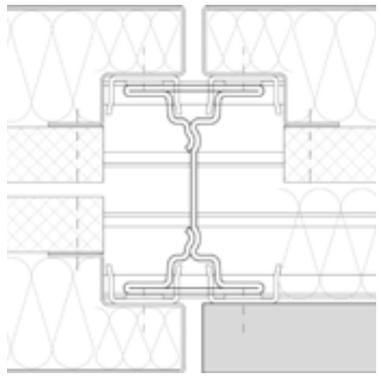
Good room acoustics are created by correctly combining different absorbers. The construction and the position determine the effect that they have in the room. Strähle offers broadband absorbers with a specially developed and tested layer structure. A combination of elements specially adapted for each room situation ensures balanced frequencies and best possible speech intelligibility.



Type	Partition wall absorber	Wall absorber	Free-standing absorber	Ceiling absorber	Glass acoustic wall
Acoustic system	System 7000	System 7100	System 7200	System 7300	System 7400
Material	wood, metal, textile	wood, metal, textile	metal, textile	metal	metal
Description	**Partition wall absorber** for surface-flush integration into a system partition wall	**Wall-mounted absorber** For fixing an existing wall	**Free-standing absorber** to create zones in open-plan areas	**Ceiling absorber** as awning for use in core-activated concrete ceilings	**Glass acoustic wall** room height glass elements with wall-mounted and ceiling-mounted absorbers
Detail					
Photo					
Surfache	HPL, veneer, painted/powder-coated or Camira Lucia collection	HPL, veneer, painted/powder-coated or Camira Lucia collection	Powder-coated/ Camira Lucia collection	Powder-coated	Aluminium sections in E6 EV1 or powder-coated finish/ Camira Lucia collection
Thickness	50 and 60 mm	50, 80 and 100 mm	100 mm	35 und 50 mm	50, 80 und 100 mm
Built into one side of 100 mm wall	50 mm and 60 mm cassette	–	–	–	–
Built into both sides of 100 mm wall	50 mm cassette	–	–	–	–
Built into one side of 125 mm wall	50 mm and 60 mm cassette	–	–	–	–
Built into both sides of 125 mm wall	50 und 60 mm Kassette	–	–	–	–
Type of installation	Flush-mounted integretion	Fixed as facing on drywalling, concrete, masonry or glazing	Free-standing elements, screwed into floor	Suspension height 125-160 mm	Adapted to glass wall (System 3400)
Sound absorption	α_w up to 0,8/1,0	α_w up to 0,8/1,0	Equivalent sound absorption area depending on finish	α_w up to 0.95 equivalent sound absorption area depending on finish	α_w up to 1,0
Sound insulation	One side $R_{w,P}$ up to 46/48 dB, both sides up to 44/46 dB	–	–	–	Sound insulation with 10 mm ESG: $R_{w,P}$ = 32 dB Normalized level difference up to $D_{n,T,w}$ = 27 dB

System 7000

Partition wall absorber



DEGREE OF NOISE ABSORPTION:
α_w from 0,55 to 1,0
SOUND INSULATION:
$R_{w,P}$ up to 48 dB
SURFACE:
Metal, wood and textile
THICKNESS OF ABSORBER:
50 and 60 mm

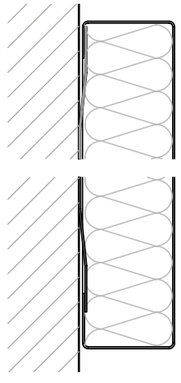
Our Acoustic System 7000 can be integrated flush into all Strähle partition wall systems with mullion construction. The size and arrangement of the absorber surfaces is determined depending on the room structure, sound sources, materials and the building structure. Together with our partition wall systems, which are available in two wall thicknesses, the broadband absorber harmonises sound insulation and absorption. The design possibilities of the partition wall absorbers are extremely wide-ranging. They are available in metal, wood and fabric, and they can be realised in a range of different perforations and in all colours.

Operating principle of partition wall absorbers.

System 7000 improves building and room acoustics. The spread of noise between rooms is muffled and reverberation times are reduced. This ensures discretion and pleasant room acoustics. System 7000 functions as a broadband absorber and it is designed to deal with the entire frequency range of the human voice. It provides economical efficiency and artistic freedom.

System 7100

Wall absorber



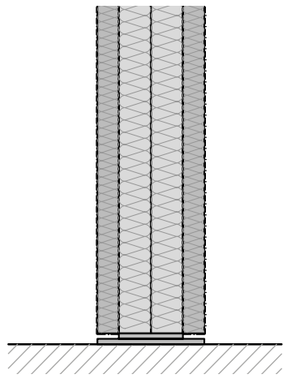
DEGREE OF NOISE ABSORPTION:
α_w from 0,55 to 1,0
SURFACE:
Metal, wood and textile
THICKNESS OF ABSORBER:
50, 80 and 100 mm

System 7100 can be used flexibly. The wall absorbers can be used as shell panels or as an independent element affixed directly on glass, solid-built walls or drywalls. The format varies with the acoustic requirements and the proportions of the room. The shape and the surface can be varied depending on the architectural requirements. The absorbing surface of metal and fabric can be used with magnets or pins as a presentation and work surface. The top-quality module solution provides for a noise absorption rating w of 0.55 to 1.0 thanks to absorbers that are 50, 80 or 100 mm thick.

System 7200

Free-standing absorber

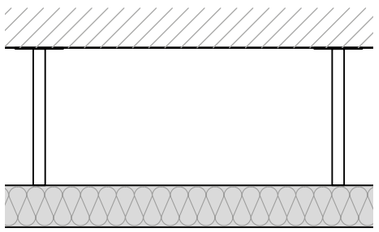
System 7200 is perfect for use in open spaces. It is particularly efficient. When correctly positioned, the free-standing elements absorb the unwanted disturbance right at the source. The open space is divided into work areas which are acoustically separated from one another by the system elements. Their implementation is variable and they can open and close rooms flexibly. The choice of surface materials (metal or fabric), the fabric colour and the perforation design provide for a variety of design possibilities. The surface can be used as a magnet or pin board.



DEGREE OF NOISE ABSORPTION:
Equivalent noise absorption surface depending on the version
SURFACE:
Metal and textile
THICKNESS OF ABSORBER:
100 mm

System 7300
Ceiling absorber

Ceiling insulation is of great importance for good acoustics. Strähle's ceiling absorbers are highly efficient as they can be mounted across large expanses on hard surfaces or even concrete core activated ceilings. That is why they are used particularly in offices with modern architecture. The metal absorber elements prevent unwanted reflections on the ceiling and guarantee pleasant acoustics. Well-balanced acoustic scenarios are created in combination with wall absorbers. Lighting and other building technology can be integrated into the suspended elements.

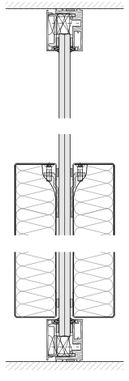


DEGREE OF NOISE ABSORPTION:
α_w up to 0,95
SURFACE:
Metal
THICKNESS OF ABSORBER:
35/50 mm

System 7400

Fully-glazed wall
Acoustic absorbers

GLASS ACOUSTIC WALL



FULLY-GLAZED WALL:
System 3400 with single glazing
SURFACE:
Aluminium sections in E6 EV1 or powder-coated finish
SOUND INSULATION:
up to 10mm toughened safety glass
$R_{w,P}$ = 32 dB
standardises sound level difference
up to $D_{n,T,w}$ = 27 dB
WALL-MOUNTED ABSORBER:
System 7100 mounted on an fully-glazed wall
SURFACE:
Metal (powder-coated/Fabric
ABSORBER THICKNESS:
50, 80 and 100 mm
SOUND ABSORPTION:
α_w up to 1,0 (metal)

One of the day-to-day challenges for architects and planners is to retain the openness and transparency of open-plan offices whilst also creating a pleasant working atmosphere. The glass acoustic wall from Strähle meets both these requirements of modern office design.

The transparent System 7400 combines ceiling-high glazed elements with wall-mounted and ceiling-mounted absorbers. With the correct combination and arrangement of the glass acoustic wall, it is possible to create a tailor-made acoustic concept for each open-space situation. Zones, separated from one another acoustically, are formed whilst at the same time the impression of an open space is maintained.

The micro-perforated absorber elements are designed specifically for human speech and have a special layered structure. They cover a wide frequency range from 100 to 5.000 Hz. Closed corridor walls or doors have been intentionally dispensed with. The glass acoustic wall enables economical use of the room, can be implemented flexibly, and it can be reused very simply if the room requirements change.

Planning manual.

Strähle systems.
A floor plan for today.
And tomorrow.

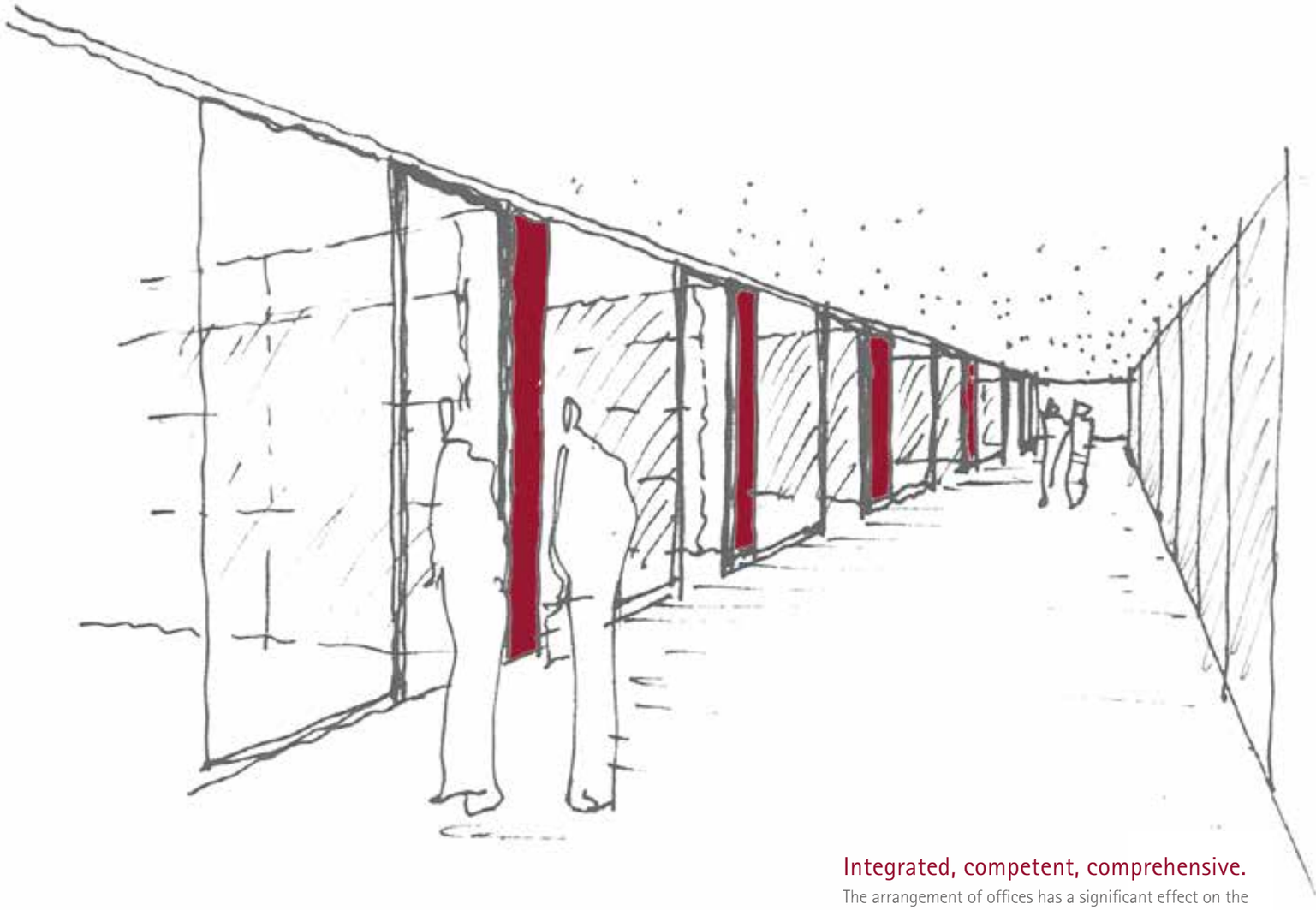
Project management
At Strähle, competent planning consultants and project managers pay attention to every detail from planning to assembly.

Competence in sound insulation
The main function of the partition walls is to provide sound insulation. Just like a building kit, Strähle room systems can be combined in accordance with sound insulation requirements.

Assembly and manufacture
The partition wall elements are delivered to the construction site just in time from our own manufacturing sites in Germany, and there they are fitted quickly and accurately.

Competence in room acoustics
Individual acoustic concepts take both building acoustics and room acoustics into account. Absorber elements provide for optimum acoustic conditions and a good working environment within a room.

Competence in fire protection
Strähle partition wall systems fulfil all current German and European standards of fire safety. Detailed consultations, certification reports and other relevant documents make planning more efficient.



Integrated, competent, comprehensive.
The arrangement of offices has a significant effect on the working atmosphere. We see ourselves as a partner for planning office space with a holistic approach. We advise planners on modern interiors and contemporary room design using partition walls, room-in-room systems and acoustic elements. In doing so we consider aesthetics, economy, flexibility of use and the sustainability of materials - all to the same degree. Using the numerous combinations offered by our systems, together we find the tailor-made solution which reconciles the existing structural conditions with the demands of the client.

A wall or 40 floors: for many years, Strähle has been supervising interior construction projects of all sizes. We integrate this experience into each new project. We know what counts. From budget planning, structural conditions, clients' requirements to construction site logistics, we take all relevant aspects into account.

Project management.

From planning to assembly.

Planned, manufactured, fitted. Strähle is your reliable partner. Our extensive experience in projects of differing sizes flows into each new project. First, we work together with you to answer a few questions:

- How is the room going to be used, and which zones are required?
- What type of room requires which noise insulation measures?
- Which materials fulfil the client's aesthetic and functional requirements?
- Which grid size and dimensions are most suitable?
- What is required of fire protection, door technology and emergency exits? What is the building structure like: to what degree can it be converted, what connections are there?
- What is the logistics situation at the construction site?
- Budget planning

When planning partition walls, you can rely on high-quality project planning. The project takes shape with vertical and horizontal cross-sections, layouts with grid dimensions and perspectives. A personal contact accompanies the project from beginning to end. The elements are delivered on time and assembled on site by experienced technicians.

Assembly and manufacture.

Well prepared and professionally fitted.

Strähle room systems are made in Germany. The elements are manufactured at our production sites of Waiblingen and Borkheide. We deliver to the construction site just in time. Thanks to being pre-fabricated to a high degree, the elements can be assembled reliably by our assembly team in the agreed time.

The partition walls can be erected as soon as the façade is closed and the interior temperature is constant. Great professionalism during manufacture and on site characterises our work. Special frames ensure that transport to and on the construction site is completed without damage to the elements. The partition walls can also be repositioned with little effort and without a lot of construction site dust.

Sound insulation.

Our strength: good acoustics and a concentrated working atmosphere.

The sound insulation of all Strähle partition wall and Kubus products is the most important feature. Good sound insulation is the decisive factor for a concentrated working atmosphere. In modern offices in particular, the important things are the acoustic separation of communicative areas and zones for meetings, and discretion. We incorporate our competence in partition walls and our experience with acoustically effective materials to develop high quality solutions.

Strähle room systems can be combined just like a building kit in accordance with the relevant sound insulation requirements. The elements are available as single or double shell components. For example, the required sound insulation values are achieved with different glass combinations, weighting solid walls, wall thicknesses of 125 mm or absorber elements integrated into the wall. All of the elements are tested on test benches in accordance with DIN EN ISO 15140-3 by independent institutes, taking DIN 4109 (sound insulation in superstructure construction) into account. The compatibility of the systems ensures that the appearance is consistent.

INFO

Building acoustics is a field of building physics and acoustics that studies the effect of construction conditions on the spread of sound between rooms. Partition wall systems reduce sound transmission between rooms. Noise is reduced so as not to disturb work processes in neighbouring rooms and to preserve discretion. Important parameters are

- R_w: sound insulation value of a component without considering the adjoining elements
- $R_{w,P}$: sound insulation value of a component without considering the adjoining elements, measured on the workbench
- R'_w: sound insulation value of a component considering the adjoining elements, measured at the construction site
- $D_{n,T,W}$: defines the sound transmission between two rooms

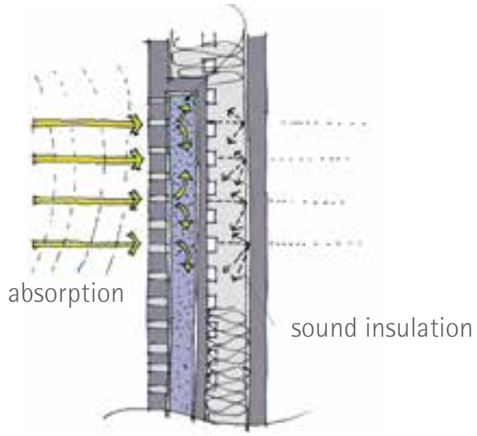
System 2000	$R_{w,P}$ 30 – 56 dB
System 2300	$R_{w,P}$ 41 – 54 dB
System 3400	$R_{w,P}$ 32 – 41 dB
System 3500	$R_{w,P}$ 40 – 47 dB
System T	$R_{w,P}$ 41 – 44 dB
System MTS	$R_{w,P}$ 42 – 47 dB
Kubus I	$D_{n,T,W}$ 28 – 32 dB equivalent to R'_w of approx. 34 – 39 dB
Kubus II	$D_{n,T,W}$ 36 dB equivalent to R'_w of approx. 42 dB

Room acoustics.

We listen carefully.

In addition to good sound insulation, partition wall systems with integrated absorber elements from Strähle also optimise the acoustics within the room and ensure greater well-being and a working environment that enhances concentration. Together with our project partners, we develop a specific acoustics concept which optimises reverberation times, sound level differences and speech intelligibility. Our function is to harmonise the contrasting effects of building acoustics and room acoustics.

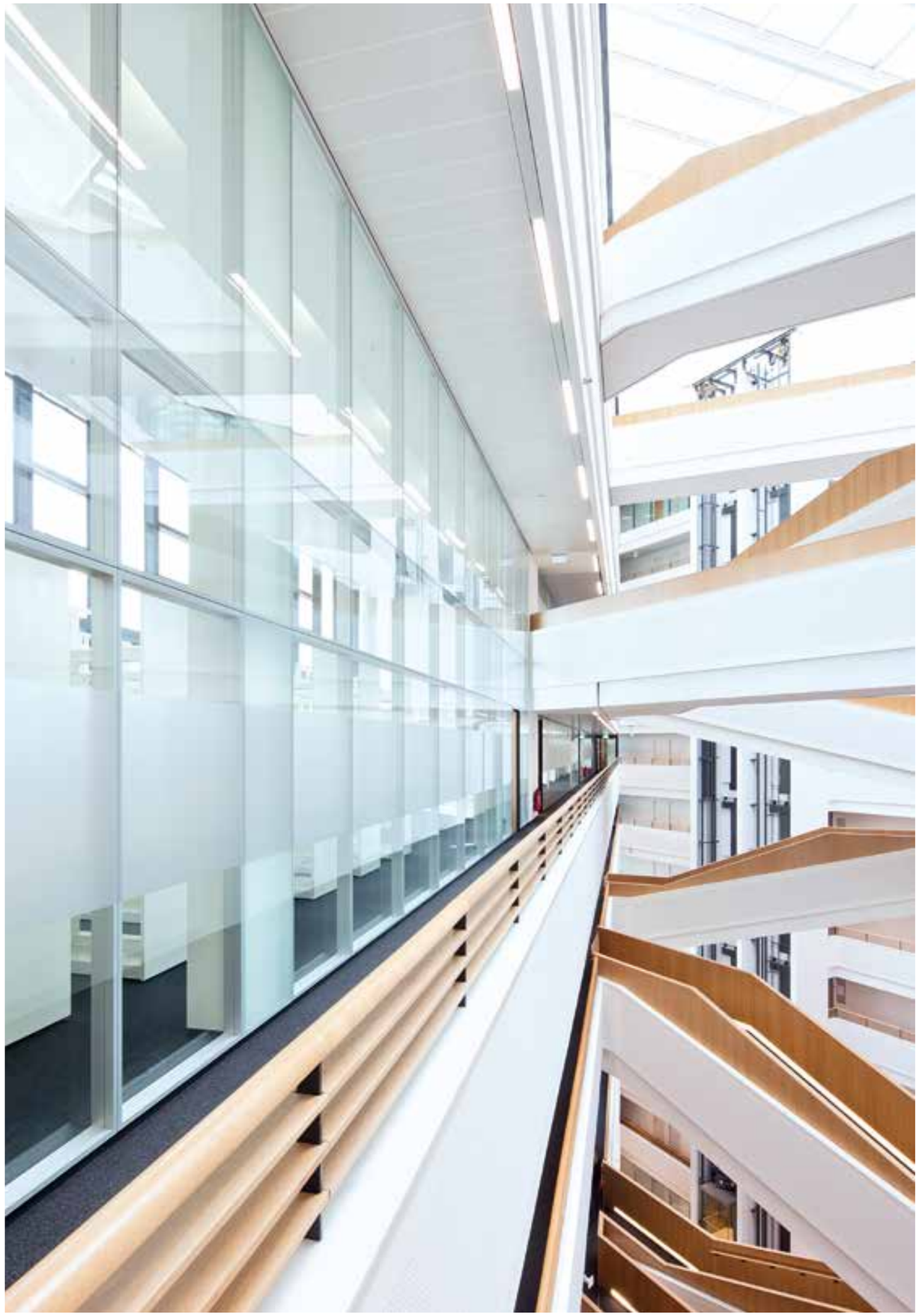
Strähle Acoustic Systems fulfil DIN norms 18041, VDI 2569 and ASR. The effectiveness of the absorbers depends on their positioning. The closer the source of sound is, the more efficiently it dampens the sound. Important parameters are the reverberation time T and the noise absorption rating α_w. Reverberation times depend on the volume of space, the geometry of the room, the surface properties and the furnishings. The absorption rating is calculated from the materials the sound meets. Which absorber elements are used depends on customers' requirements, the use of the room and its geometry, and the arrangement of workplaces.



INFO

Which surfaces are needed to create optimum indoor listening conditions? Room acoustics deals with the sound-absorbing properties of materials and their position in the room. The sound energy which meets the absorbing surface is transformed into other energy forms and absorbed. High-quality absorbers dampen the sound and improve the hearing quality of the room. Parameters are:

- **Reverberation time T:** the time for the sound pressure level to sink by 60 dB from when it was created
- **Absorption rating α_w:** proportion of sound energy which is not reflected; complete reflection $\alpha_w = 0$; complete absorption: $\alpha_w = 1$



Fire protection.

Certified fire protection and a high-quality appearance.

Fire protection is an important part of building planning. Strähle gives comprehensive advice to planners and architects on purpose-based implementation. The system walls from Strähle fulfil both German and European fire safety specifications.

Systems 2000 and 2300 combine fire protection and high aesthetic standards. They were tested and certified by the appropriate institutes. Our system walls are, if required, available in the fire-resistant version in conformance with fire retardance class F 30. In the solid wall version, System 2000 can also fulfil the requirements of fire resistance class F 90.

The flush bonded Door SG 100 fulfils the requirements of RS-1 and RS-2 smoke protection, and also the requirements of fire protection fittings (FSA). It is available as a single-leaf or double-leaf door. Together with the glass partition wall of System 2300, it provides transparent aesthetics with reliable fire and smoke protection. The other fire protection relevant system elements also fit smoothly into the uniform design of Strähle partition walls.

Fulfilling fire protection specifications.

We show architects and planners how they can fulfil fire protection standards using our systems. How can which connection situation be carried out? Strähle has tested and approved many partition systems and connection combinations. Strähle can provide necessary tender texts, test certificates and building inspectorate documents.

INFO

FIRE PROTECTION ELEMENTS

non-load-bearing inner walls, stop the spread of flames, heat and smoke. There is a distinction between fire retardant F30 and F90 fire-resistant walls. For example, in F30 fire-resistance rating, the room must stay closed for at least 30 minutes and the rise in temperature on the side away from the fire must not exceed 180 K.

FIRE RESISTANCE FITTINGS (FSA)/ FIRE PROTECTION DOORS

are closures of openings in fire-retarding or fire-resistant walls and in fire walls. The task of a fire resistance fitting is to stop a fire, or at least to hinder its spread for a specific time. The distinction is made between fire resistance ratings T30, T90 and T120. Fire resistance fittings must by definition be self-closing (door closers).

System 2000	Solid wall F 30/F 90
System 2000	Central glazing F 30
System 2000	Flush-fronted glazing F 30
System 2300	Flush-bonded glazing F 30

References

Partition walls

References

Room-in-room systems

References

Acoustic systems

T-Home, Bonn
System 7000

Münzing Chemie, Abstatt
System 7000

Dürr, Bietigheim
System 7000

Tanzende Türme, Hamburg
System 7000

Windows, Stuttgart
System 7000

References

Adidas
Allianz
Amazon
Audi
Aviva London
Bank of China London
BASF
Bayer
Bertelsmann
Bikini Haus Berlin
BMW
Bosch
Burda-Verlag
Coca Cola Enterprises London
Daimler
Deutsche Bahn
DGNB
Drees + Sommer
E.ON
Ernst & Young
Europäische Investitionsbank
Ferrero
Fraunhofer-Institut
Hoffmann La Roche
IHK Berlin
ING-Diba
Interstuhl
Jung von Matt
Jungheinrich
Kärcher
KFW-Bank
KPMG
Kö-Bogen Düsseldorf
KWS SAAT
Lanxess
LBBW
MANN+HUMMEL
Max-Planck-Institut
McKinsey
Mercedes-Benz
Merck Serono
Messe Frankfurt
Microsoft
MindSpace
Munich Re
Nestlé
Neue Messe Stuttgart
Nintendo
Novartis Pharma
Olymp
Philips
Porsche
SAB Miller London
SAP
Satellite Office
Siemens
Silvertower Frankfurt
Spiegel Verlag
Süddeutscher Verlag
T-Home
Tanzende Türme Hamburg
Taunus Turm Frankfurt
The Carlyle Group London
Thyssen Krupp
Trumpf
UBS
Vodafone
Volksbank
Wien Tourismus
WTO Genf
XING
ZF

Strähle Raum-Systeme GmbH
www.straehle.de
info@straehle.de

PUBLISHER
Strähle Raum-Systeme GmbH,
Waiblingen
www.straehle.de

COMPILATION AND DESIGN
orelunited Werbeagentur GmbH,
Stuttgart
www.orelunited.de

THANKS
Thanks to all the architects, companies, partners, photographers and creatives who cooperated on this publication.

PHOTOGRAPHER
KD Busch, Fellbach
// P. 5, 13 - 14, 51, 72
Karl Huber Fotodesign, Nagold
// P. 8, 15 - 17, 20 - 21, 25, 33, 35, 37 - 44, 48, 53, 55 - 58, 59 - 66, 68, 72, 75 - 78, 83 - 85, 86 - 87
Beate Weller, Frankfurt
// P. 10
Andreas Muhs, Berlin
// P. 14 - 15
Marc Eggimann, Basel
// P. 19, 27, 83
Jürgen Pollak, Stuttgart
// P. 23, 85
HG Esch Photography, Hennef
// P. 29, 80, 82
Brigida González, Stuttgart
// P. 31, 39, 82
Jochen Stüber, Hamburg
// P. 52
Peter Bajer, Mainz
// P. 69
Swen Carlin, Heidelberg
// P. 82
Werner Huthmacher, Berlin
// P. 82
Ulf Büschleb, Berlin
// P. 82
Seel Bobsin Partner, Hamburg
// P. 82
Rainer Mader, Schleiden
// P. 86
Dietmar Strauß, Bietigheim
// P. 87
Cordelia Ewerth, Hammoor
// P. 87

Strähle Raum-Systeme GmbH
www.straehle.de
info@straehle.de

GERMANY
Gewerbestraße 6
71332 Waiblingen
T +49 7151 1714-0
F +49 7151 1714-320

Wurzelweg 5
14822 Borkheide
T +49 33845 66-0
F +49 33845 66-199

AUSTRIA
Industriestraße 9
2353 Guntramsdorf
T +43 2236 23232-0
F +43 2236 23232-13

SWITZERLAND
Dellenbodenweg 1
4452 Itingen
T +41 61 463 1332
F +41 61 463 1333

Strähle
Raum-Systeme