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Structuring the Room

Customised Acoustic Solutions

Products & References



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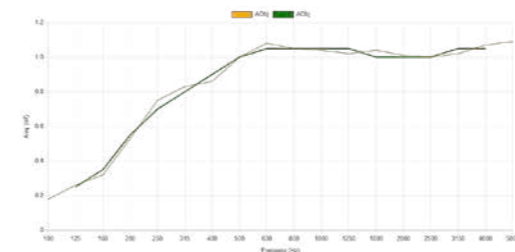
More efficiency through better working conditions - that is the goal and at the same time the solution approach for our services and products.

PASSION FOR EXCELLENT ROOM ACOUSTICS AND SOUND INSULATION - AOS stands for excellent room acoustics and sound insulation at the office workplace like no other company in the field of office and object furnishing. More efficiency through better working conditions - that is both the goal and the solution approach for our services and products. Many years of experience, an order-related and high vertical range of manufacture at the company's location in Schopfloch enable us to develop and implement the optimum solution for your project together with you. Thanks to our product solutions and services, open and flexible office structures are accepted and appreciated not only by employers but also by employees.

Who we are & what we stand for



Technisches Datenblatt für Wandabsorber 55, H=800 mm, B=1200 mm, Dicke 55 mm



Frequenz f (Hz)	Terzen As (m²)	Oktaven Ap (m²)
50	0.02	
63	0.08	
80	0.11	
100	0.18	
125	0.26	0.25
160	0.32	
200	0.53	
250	0.75	0.70



Absorber
Bezeichnung Wandabsorber 55, H=800 mm, B=1200 mm, Dicke 55 mm
Hersteller AOS Akustik Office Systeme GmbH

An order-related and high vertical range of manufacture at the company's location in Schopfloch enables the optimal solution for for your project.



High advisory competence & intensive dialogue with customers - A high advisory competence of our employees and the intensive dialogue with our customers offer security for the best room acoustic results. Our services are a guarantee for a healthy and performance-promoting working and living atmosphere and they fulfil the highest design and quality requirements. Our products and services are not only used in office environments, but also in educational and social facilities, in meeting and conference centres and in private homes.

Intensive dialogue provides security for the best room acoustic results.

Flexible production & high vertical range of manufacture - Since the early days, AOS has attached great importance to vertical range of manufacture. The entrepreneurs only purchase raw materials and carry out all work steps on site with their own employees. Production takes place in four halls in Schopfloch, Middle Franconia. Here, the self-developed aluminium profiles are processed and assembled, and the solid wood and wood-based materials are cut to size and processed. In the sewing department, which is strongly affected by growth, the fabric covers are cut, sewn and prepared for final assembly. At the same time, the various acoustic fillings and superstructures are made up in a specially developed process. AOS wants to be able to react flexibly to every customer order and ensure quality on site. "We do not manufacture off the peg," emphasises one of the company founders. "Each element is only cut to size when the order is received. We only store raw materials here in Schopfloch, the further processing is entirely in our hands."



"We do not manufacture off the peg."

Room Acoustics -

Successfully plan & design

The topic of room acoustics has become increasingly important in the office environment in recent years. The background to this is the changes in office concepts, but also building physics and design aspects. In addition, there is the desire for flexible and changeable workplace structures up to and including non-territorial workplace concepts. Some changes in the office have a negative impact on work performance and results - some directly, others indirectly and not immediately apparent - if the right spatial conditions are not created for this. This applies in particular to the requirements for room acoustics, which are influenced by a variety of factors.

*Room acoustics are influenced
by a multitude of factors.*





The dynamic change in working environments requires careful and professional planning and implementation.

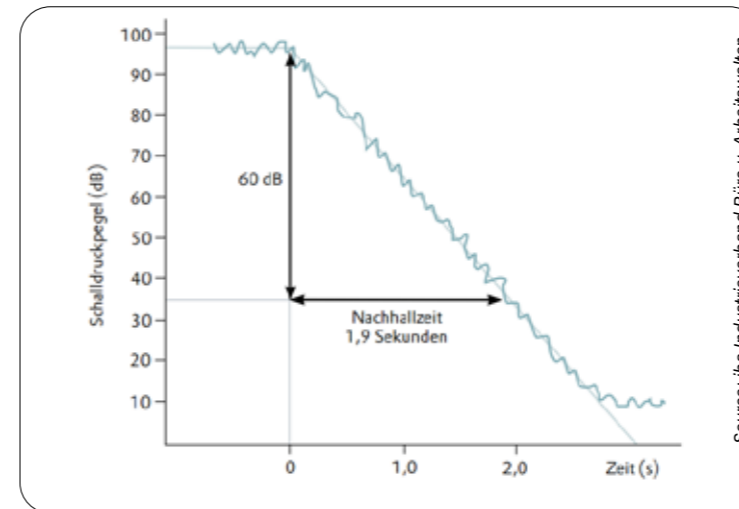
After many years in the shadows, hybrid forms of work have now arrived at the centre of society. They are already lived practice in many companies, not only in large enterprises, but increasingly also in medium-sized and small businesses. The associated very dynamic change in jobs and work opportunities at company locations,

but also at any other available space, requires careful and professional planning and implementation. The acoustic conditions to be achieved at the workplaces and possibilities depend on a multitude of factors. The basis for the high quality requirements are the valid regulations and the legal provisions of the workplace guidelines.

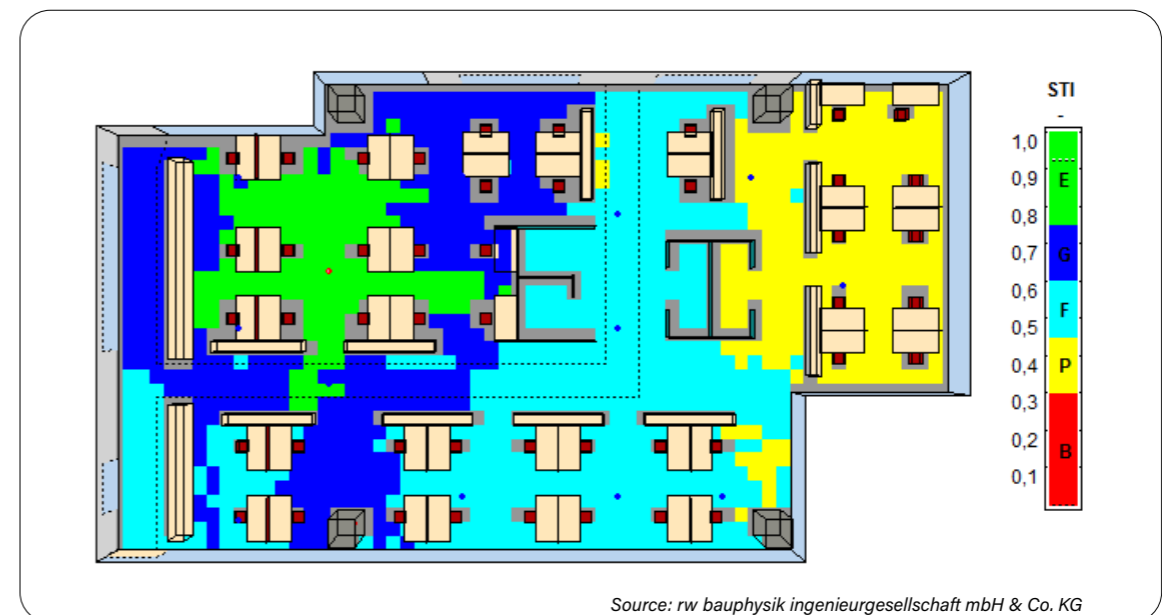
THREE IMPORTANT PARAMETERS

REVERBERATION TIME (T) – The acoustic quality of an office space depends above all on the reverberation time, which is the calling card of a room. This is essentially dependent on the room volume, the surfaces in the room and the objects in the room. The optimum reverberation time for office spaces is between approx. 0.5 and 0.8 seconds, depending on the room volume. To achieve this, an appropriate area of sound absorbers must be optimally positioned.

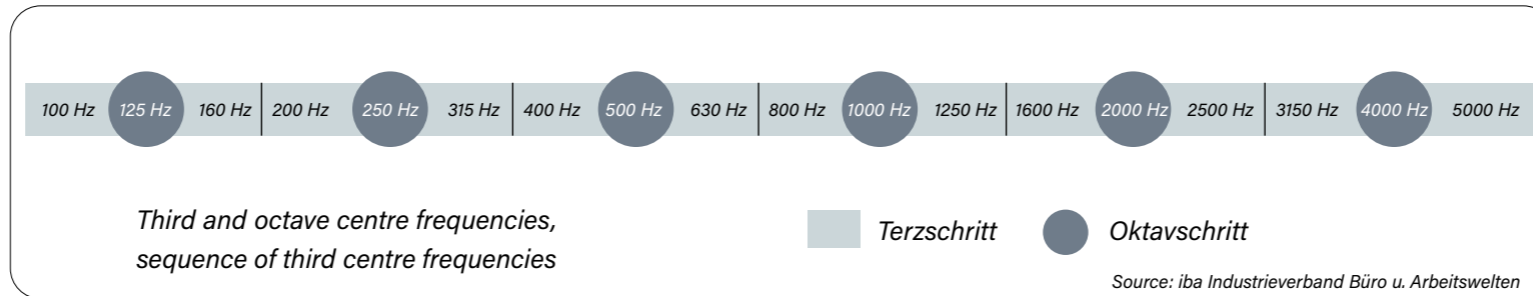
SPEECH INTELLIGIBILITY – is another important parameter for room acoustics. A widely used measurement to describe speech intelligibility is the speech transmission index (STI). The shorter the reverberation time, the better the speech intelligibility. Depending on the type of use of the area - such as office workplaces or conference rooms - speech intelligibility must therefore be optimised with additional measures. To reduce the interference between each other, the use of sound screens is particularly recommended.



Reverberation time in seconds (s) according to sound pressure level (dB)



Speech Transmission Index (STI)

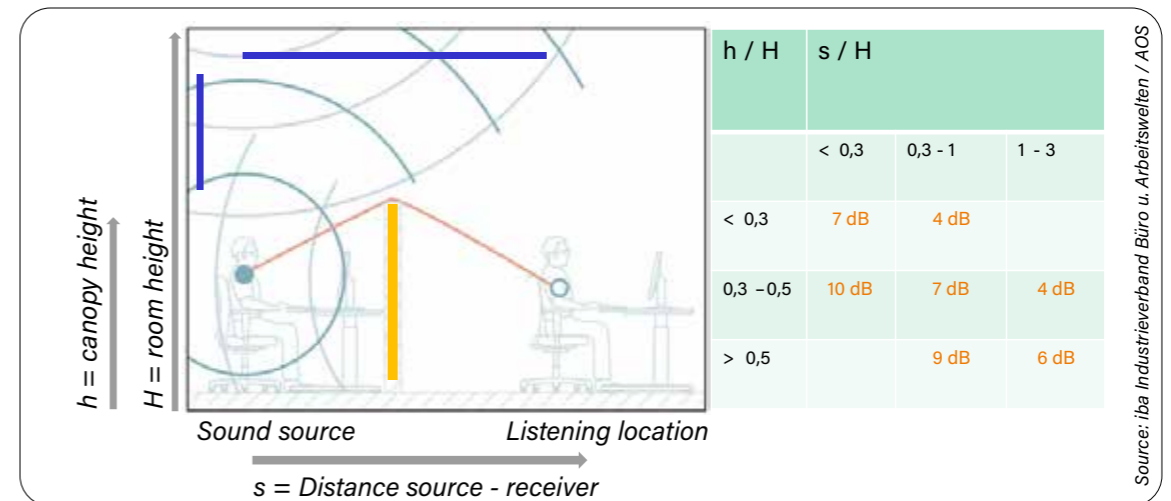


DIN 18041
"Audibility
in small and
middle-sized
rooms"

FREQUENCY (f) – denotes the number of changes in sound pressure per second. Sound results with a high frequency are perceived by the human ear as high tones, sound results with a low frequency as low tones. Sounds such as noise, road traffic, etc. usually contain a variety of frequencies. Human speech ranges from 250 Hz to 2000 Hz. Acoustic parameters such as the sound pressure level or the sound absorption coefficient are usually given in steps of octaves and thirds. Relevant octave frequencies in room acoustics are 125 Hz, 250 Hz, 500 Hz, 1000 Hz and 4000 Hz.

There are a number of other important parameters that have an influence on room acoustics planning, for example:

- the A-weighted interference sound pressure level on-site noise
- the A-weighted sound pressure level of the speech
- the spatial decay rate of the language, to name but a few.



Example: empirical values on the effect of sound screens

The calculation of all these influencing factors requires that the necessary data can be collected and processed. In order to keep the effort and thus the costs for medium-sized and smaller projects within reasonable limits, experience values are used at various points in practice, as the example above shows.

THREE IMPORTANT SETS OF RULES

DIN 18041:2016-03 - ACOUSTICS IN ROOMS - REQUIREMENTS, RECOMMENDATIONS AND GUIDANCE FOR PLANNING DIN 18041 provides the basis for room acoustic planning for most of the rooms encountered in everyday life. This standard provides requirements and recommendations for room acoustic planning and deals with the optimisation of audibility in rooms for speech communication.

VDI 2569:2019-10 - SOUND INSULATION AND ACOUSTIC DESIGN IN THE OFFICE This guideline deals with the reduction of speech intelligibility from neighbouring areas and the lowering of background noise for undisturbed working. Especially in multi-person offices, there are not only requirements for limiting the reverberation time to a set value. Workers who work in multi-person offices and complain about the room acoustics are mostly disturbed by noise from neighbouring workplaces; in particular by their colleagues communicating with each other or by telephone conversations. Therefore, further parameters are needed in office spaces to assess the propagation of speech in the room, i.e. between workplaces.

ASR A3.7 "NOISE" - WORKPLACE GUIDELINE ASR A3.7 - MAY 2018 ASR A3.7 describes the state of the art on the basis of proven occupational science findings for the installation and operation of workplaces. In the field of occupational health and safety, it describes for the first time concrete specifications for assessing the risk from noise in the extra-aural level range below 80 db(A) and for the room acoustics of workplaces. These include specifications on the maximum sound pressure level and audibility in workplaces. The sound pressure level must always be kept as low as possible according to the type of operation.

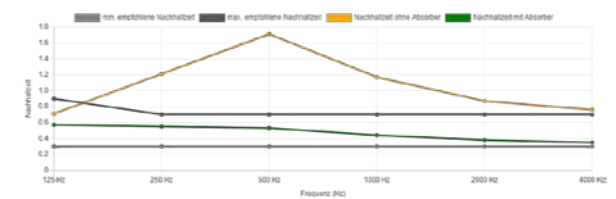
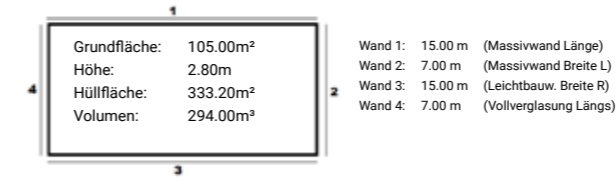
THE AOS ROOM ACOUSTICS PLANNING

AOS offers its customers and project partners calculations and measurements of room acoustics depending on the use of the room. When planning room acoustics in office buildings and control rooms, measures for sound absorption, sound deflection and prevention of sound propagation in the room are considered. The relevant regulations for planning are DIN 18041 "Acoustics in rooms - requirements, recommendations and notes for planning" and, in particular for offices, the revised version of VDI 2569 "Sound insulation and acoustic design in offices" and ASR A3.7 "Noise".

The consulting modules range from calculations based on previously submitted room data to on-site measurements to comprehensive planning concepts, if necessary with the involvement of external building physicists. External offices are available to us for the preparation of an independent expert report. The costs for the services depend on the scope of the consulting modules.

Rechengrundlage (Sabine)

Regelwerk: VDI 2569:2019
Nutzungsart: Mehrpersonenbüro (B - mittel)
Max. empfohlene Nachhallzeit 0.70 s



	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	T_{mit} 250-2000
Nachhallzeit ohne Absorber (s)	0.71	1.21	1.71	1.17	0.87	0.76	1.24
Nachhallzeit mit Absorber (s)	0.57	0.55	0.53	0.44	0.38	0.35	0.47
Schallpegelreduktion ΔdB	1.02	3.39	5.11	4.26	3.64	3.34	4.10
Max. empfohlene Nachhallzeit	0.90	0.70	0.70	0.70	0.70	0.70	
Min. empfohlene Nachhallzeit	0.30	0.30	0.30	0.30	0.30	0.30	
Bedarf Absorberfläche Aeq (m²)	0.00	0.00	0.00	0.00	0.00	0.00	

Raumakustische Berechnung
Bearbeiter: Henrik Behmert
Datum: 2021-09-01
Projekt: Konzept 2.3 VDI 2569 B

Bauteil	Fläche	125 Hz 250 Hz 500 Hz 1000 Hz 2000 Hz 4000 Hz						Quelle
		α_p	α_p	α_p	α_p	α_p	α_p	
W Trockenbau Wand	49.60m²	0.30	0.10	0.05	0.07	0.09	0.08	DIN 18041 (2016 - Tabelle G1-26)
W Trockenbau Wand	19.60m²	0.30	0.10	0.05	0.07	0.09	0.08	DIN 18041 (2016 - Tabelle G1-26)
W Fenster - Isolierverglasung	42.00m²	0.28	0.20	0.11	0.06	0.03	0.02	DIN 18041 (2016 - Tabelle G1-10)
B Teppichboden bis 6mm Höhe	105.00m²	0.02	0.04	0.07	0.19	0.29	0.35	DIN 18041 (2016 - Tabelle G1-14)
D Trockenbau Decke, 25mm Abstand	105.00m²	0.27	0.17	0.10	0.09	0.11	0.12	DIN 18041 (2016 - Tabelle G1-25)
Absorber am Bauteil - flächige Absorber								
W Wandabsorber 55 mm als flächiger Absorber	12.00m²	0.25	0.75	1.00	1.00	1.00	1.00	Werte aus Prüfzeugnis (ISO 354 + ISO 11654/97)
		125 Hz 250 Hz 500 Hz 1000 Hz 2000 Hz 4000 Hz						Quelle
		A_{eq}	A_{eq}	A_{eq}	A_{eq}	A_{eq}	A_{eq}	
Objekte und Personen im Raum								
O Person, sitzend, sommerlich	10.00Stk	0.05	0.10	0.15	0.35	0.45	0.60	DIN 18041 (2016 - Tabelle G2-02)
Absorber im Raum - als Element								
O Mood Line 55 Stellwand als Objekt je m², Dicke 55 mm, beidseitig wirksam	23.00Stk	0.65	1.20	1.55	1.75	1.90	1.90	Werte von Prüfzeugnis abgeleitet
O Deckenabsorber abgehängt B=1000 mm, L=1000, Dicke 40 mm, Deckenabstand 200 mm	12.00Stk	0.25	0.90	1.25	1.35	1.40	1.40	Werte von Prüfzeugnis abgeleitet
O Prime Line 55 Tischelement als Objekt je m², Dicke 55 mm, beidseitig wirksam	1.30Stk	0.25	0.45	0.60	0.65	0.70	0.75	Werte von Prüfzeugnis abgeleitet

* Abkürzungen W - Wand / B - Boden / D - Decke / O - Objekt stehen für die Kategorie des Bauteils oder Absorbers

*DESIGN DIVERSITY AND
CUSTOMISED ACOUSTIC
SOLUTIONS*

AOS offers design diversity and customised acoustic solutions off the beaten track and uniformed concepts. High-performance products with personality and character, manufactured with a high level of technical expertise and a great deal of attention to detail. A uniquely broad product range and a wide variety of variants offer almost unlimited design possibilities.

Products

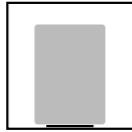
Variety of Acoustic Solutions



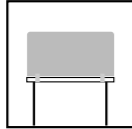
Prime Line 55/40

highly functional & technically powerful

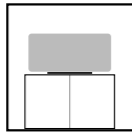
Partitions



Desk



On-Cabinet



Developed as a system partition with solutions for table and cabinet add-on elements as well as rear table elements, **Prime Line** offers a wide range of options for designing workplaces that are highly functional and visually appealing. **Prime Line** combines highly sound-absorbent, fabric-covered surfaces and elegant-looking slatted walls to form a broad-based modular system. Whether electrification, lighting or organisation - the technically solid construction is designed as a system solution that guarantees generous scope for individuality. **Prime Line** is characterised by its mechanical connection, which ensures maximum stability and thus also allows for large wall positions. The individual walls are equipped with a vertical system rail and can be easily assembled, disassembled and reconfigured in just a few steps. The invisible mechanical connection allows for an elegant product design. Alternatively, the system is also available without a vertical system rail. The intelligent multi-layer construction of the walls, which are available in wall thicknesses of 55 and 40 mm, can be adapted to different room acoustic requirements

in terms of dimensions and materials. In this way, **Prime Line** walls ensure the best room acoustics as well as well-being and efficiency at the workplace. Optionally available glass top panels guarantee additional sound shielding and maintain the visual axes in the room. Offered are 17 fabric collections (10 collections also as quilted fabrics) in 5 price groups with over 500 colours.

In addition to the classic acoustic filling material - a flame-retardant polyester fleece - the **Prime Line** walls are also available with a filling made of 100 % virgin sheep's wool. Virgin sheep's wool not only has excellent acoustic properties, it also has the unique ability to filter and sustainably neutralise room air. Virgin sheep's wool is a renewable raw material, ecological and recyclable and therefore 100 % sustainable.

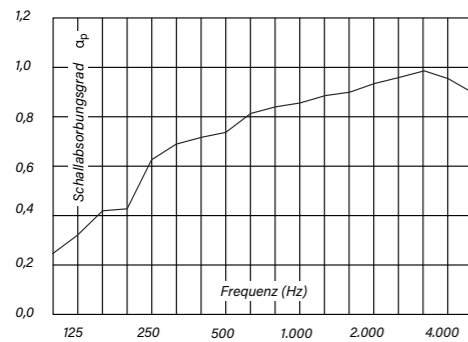


Prime Line - a broad-based modular system for the timeless design of workstations.

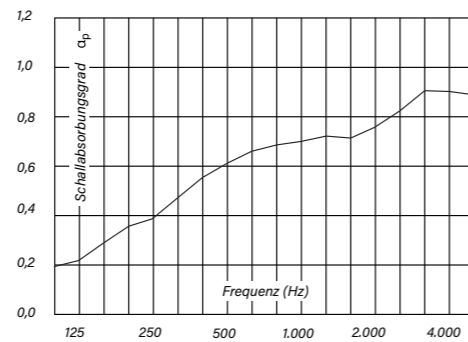


The Prime Line also includes a slat element and a wide range of organizational accessories.

Prime Line 55/40

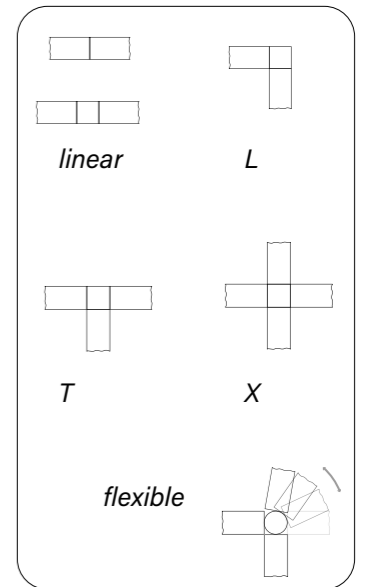


Sound absorption level - octave centre frequency (55 mm)



Sound absorption level - octave centre frequency (40 mm)

Prime Line movable walls are available in heights of up to 2600 mm, in 159 standard formats and also in customised sizes. In addition to rectangular or square solid walls, the system also offers walls with a curved or stepped top edge as well as with a 200 mm or 400 mm sloping end. These variants offer a smooth transition for wall positions with height offsets and allow individual adaptation to existing room-forming elements.



Connecting options



Fabric-covered surfaces, elegant slats or glass walls and glass add-on elements - Prime Line is designed as a system solution that ensures excellent acoustics.

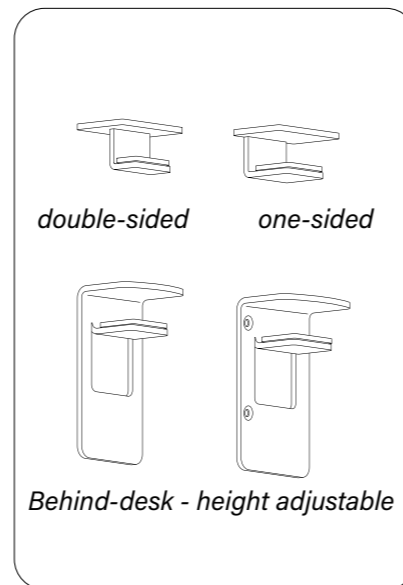
*Creative retreat:
By combining Prime Line
slat walls with fabric-
covered surfaces, project
workstations can be created
for concentrated work.*



*Prime Line - freedom for
individuality and flexibility,
the focus is on function
and design.*



Well-being and efficiency at the workplace: Prime Line partition walls combined for T-positioning.



Connecting elements

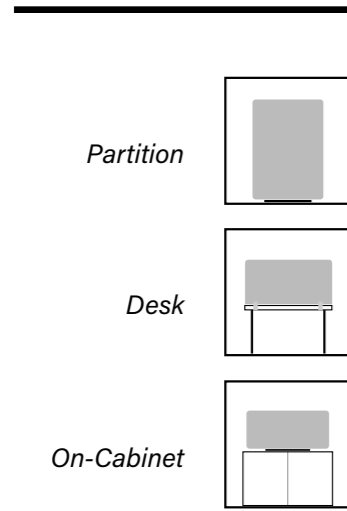


Lateral system rail



Prime Line on-cabinet element, positioned on sideboards or on a workbench, they always contribute to visual and acoustic screening in the immediate working environment.

[Prime Line 55/40 >>](#)



Silence Line 55/40

Highly flexible & dynamic

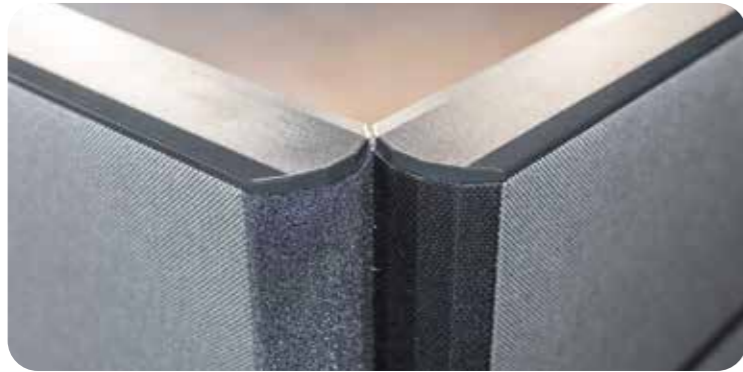
Noise in the office is more than an annoying disruptive factor. Constantly present, it measurably impairs work performance and ultimately also the health of employees. The **Silence Line** system partition wall, with its table top and on-cabinet elements as well as behind-desk elements, makes a decisive contribution to optimising room acoustics and improving noise protection at the workplace. Highly sound-absorbent at its core and a guarantor of the best acoustic properties, **Silence Line** with its functional-dynamic Velcro connection also stands for flexibility and cost efficiency. Designed as a modular system, glass walls and partially glazed walls are available in addition to fabric-covered walls. Organiser rails and electrification modules that can be integrated into the system offer a wide range of options for individual workstation design, including monitor swivel arms and glass topper.

The partitions are offered in thicknesses of 55 and

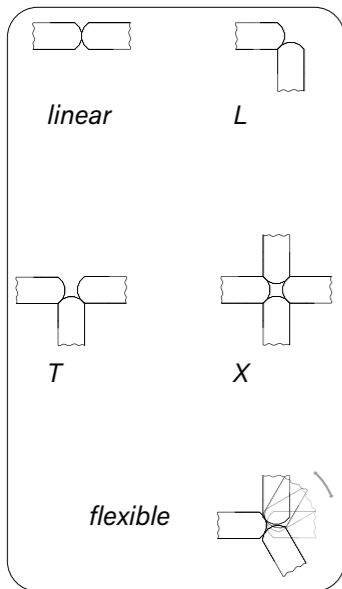
40 mm, and thus also with different sound absorption capacities. The use of **Silence Line**, a great deal of benefit can be achieved with little effort, which has a clearly positive effect on the work results, the well-being of the employees and ultimately the economic success of a company.

Silence Line shows its special characteristics through the uniquely flexible Velcro connection of the partitions. The ingenious angles of the connecting elements shorten the tool-free assembly and allow for quick conversion work on site. During development and material selection, the requirements for long-lasting and flexible use were taken into account. There is a choice of 3 different Velcro and velour colours, 17 fabric collections, 8 decorative surfaces and, in addition to clear and satin glass, also individual foiling and digitally printed fabric surfaces.





Silence Line - Quick conversion thanks to uniquely flexible Velcro connection.



Connection options

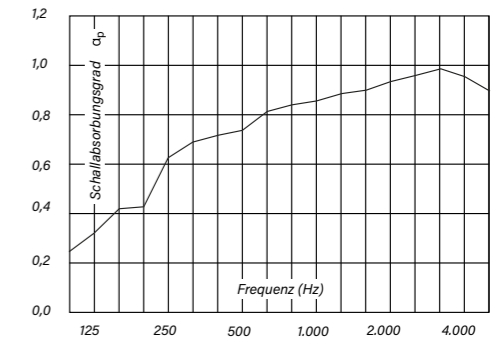


Silence Line movable walls offer a wide range of options for individual workplace design and improve acoustics.

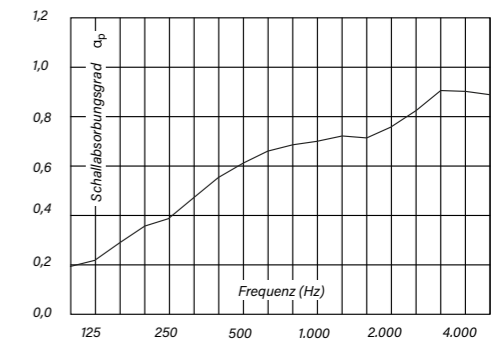


Feet and foot stabilisers with integrated height compensation ensure a secure stand and allow unhindered circulation of the room air.

Silence Line 55/40



Sound absorption level - octave centre frequency (55 mm)



Sound absorption level - octave centre frequency (40 mm)



The very broad modular system also includes closed decorative walls and integrated whiteboards, leaving nothing to be desired in terms of functionality.

*Silence Line
combines acoustics
with flexibility and
cost efficiency.*

Whether in 55 mm or 40 mm wall thickness, positioned on sideboards or on a workbench, **Silence Line** on-cabinet elements contribute to visual and acoustic screening in the immediate working environment.



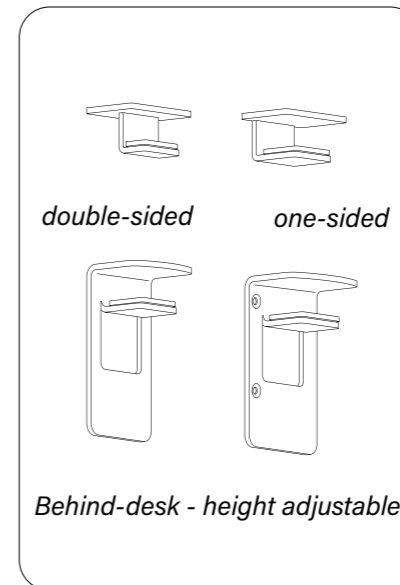
Behind-desk screen



The top and back table elements of the **Silence Line** series are available in various heights and seven standard widths. In addition, individual customisations can be made to suit any table size and arrangement.



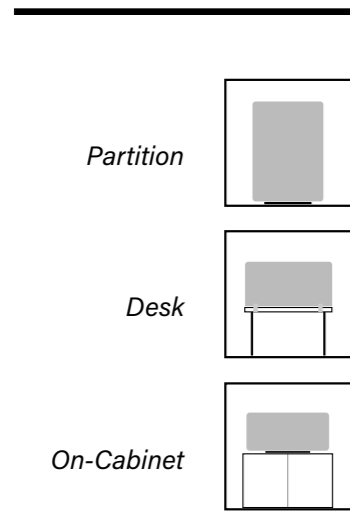
Attachment of the behind-desk screens also to height-adjustable tables



Connecting elements

Glass topper increase the sound-insulating effect while maintaining transparency.

[Silence Line 55/40 >>](#)



The partitions, table elements and cabinet add-on elements of the **Mood Line solitaire** series are offered in two wall thicknesses (55 mm & 40 mm) and thus in two different sound absorption capacities. The two embossed designs offer plenty of scope for design. Fully upholstered with rounded corners, soft to the touch, sewn with great attention to detail or with inlying profiles - fabric-covered, alternatively powder-coated, businesslike elegance with an unmistakable character. Equipped with a powder-coated flat central foot, the Mood Line solitaire partitions can easily be positioned close to the table frame and freely without the risk of tripping.

Mood Line 55/40 solitaire

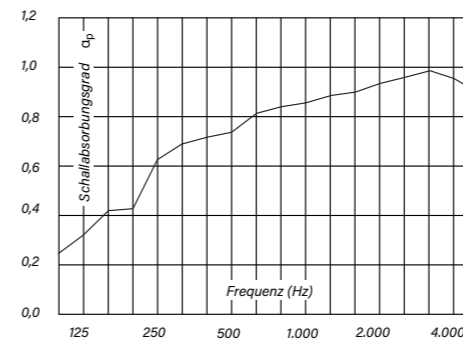
elegant & strong character



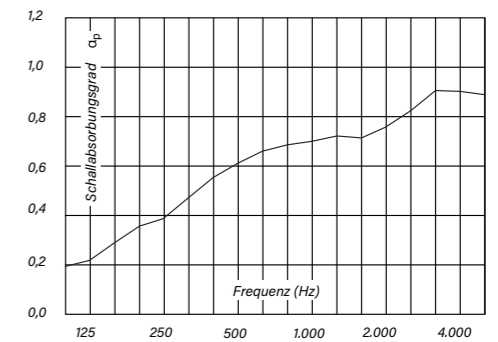
Design features. with inlying profile fabric covered or fabric fully upholstered or fabric fully upholstered quilted.

Mood Line solitaire offers a variety of characterful fabric and material combinations. Offered in 17 fabric collections - divided into 5 price groups - and with over 500 colours, they provide inspiration for a creative and at the same time highly sound-absorbing room division. 10 fabric collections are available as quilted fabrics.

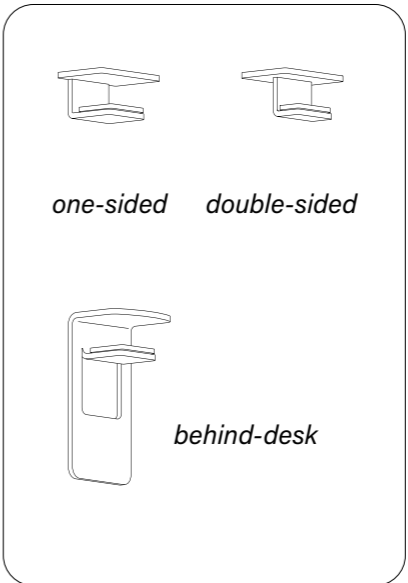
Mood Line 55/40 solitaire



Sound absorption level - octave centre frequency (55 mm)



Sound absorption level - octave centre frequency (40 mm)



Mood Line table elements are offered in two different attachment variants. As a table top element, positioned on the table flush with the rear edge of the table or alternatively with a projection for attachment on both sides. As well as a rear table element with a hanging downward projection of at least 180 mm. Fastening to the table is by means of a clamp, suitable for top thicknesses from 19 to 25 mm.



The **Mood Line** on-cabinet units are available in heights of 380, 530 and 680 mm. With 7 standard widths each, up to 2000 mm, it is possible to respond to any cabinet or table size as well as to the most diverse arrangements.

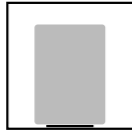


[Mood Line 55/40 solitaire >>](#)

Mood Line 55 magnet

Consistently straightforward and technically timeless

Partition

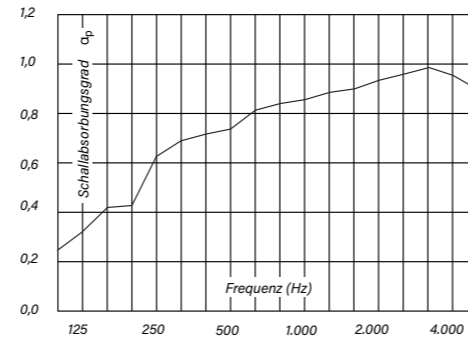


With a wall thickness of 55 mm, **Mood Line 55 magnet** is available in the fully upholstered version as a system partition. Ingeniously simple, because it requires no tools and offers plenty of creative scope, it creates landscapes and acoustically well-shielded islands of tranquillity. Invisible, cleverly arranged magnetic connections allow flexible wall positions that can be changed at any time. Wall positions in which the system walls are directly connected to each other are possible, but also positions in which a connecting post is integrated. **Mood Line 55 magnet** thus offers planners and architects not only almost unlimited design possibilities but also unprecedented flexibility. Offered in 17 fabric collections - divided into 5 price groups - and with over 500 colours, they are a source of inspiration for a creative and at the same time highly sound-absorbing room division. There are 10 fabric collections available for quilting.





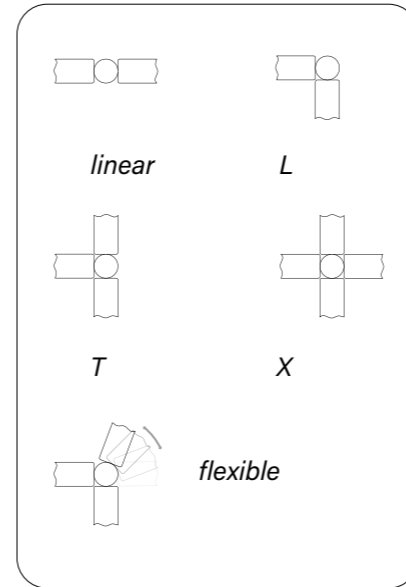
Mood Line 55 magnet



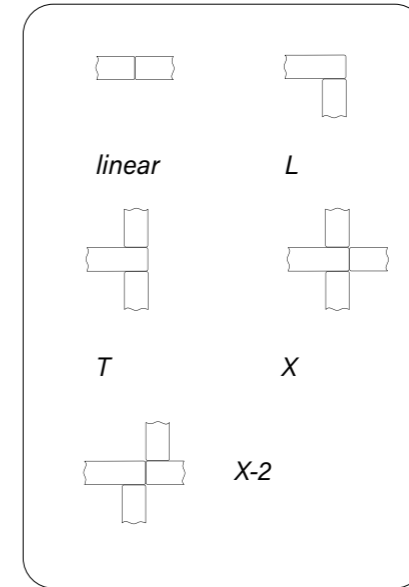
Sound absorption level -
octave centre frequency



The system walls can be connected directly to each other, alternatively a connecting post can be used.



Connection options
with connection post

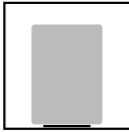


Connection options
without connection post



Whether linear, in L-, T- or X-position **Mood Line 55** with magnetic connection supports them in planning and gives room for creativity. A connecting post allows free angular positions from 90° to 270° and provides additional flexibility by reducing the required wall widths.

[Mood Line 55 magnet >>](#)

 Partition


Mood Line 55 connect

Acoustically highly efficient & versatile

It is the small details that make the difference, that give a product its very personal touch. When these are implemented with a high level of professional competence in individual handicraft, products are created that are convincing not only because of their functional qualities. Modularly designed in different formats and heights, coordinated with ergonomic sit-stand desks, **Mood Line 55 connect** is particularly at home in open office spaces. The fully upholstered walls with a thickness of 55 mm offer protection and the best acoustic conditions. The design is characterised by the corners rounded off at the upper ends in a radius of 50 mm. These, in conjunction with a precisely crafted seam, lend the positions a homely, soft character and a harmonious overall appearance. In addition to side panels in a vertical design (available in heights of 1200, 1400 and 1600 mm) with a strict



geometry, **Mood Line 55 connect** is particularly impressive in the version with trapezoidal side panels (available in heights of 1200 and 1400 mm). The widths and depths of the different positions are designed for table widths of 1200, 1400, 1600, 1800 and 2000 mm and for table depths of 800, 900 and 1000 mm. Other widths and depths are also possible. Attachable glass topper in heights of 300 and 400 mm provide additional protection while maintaining the visual axes.



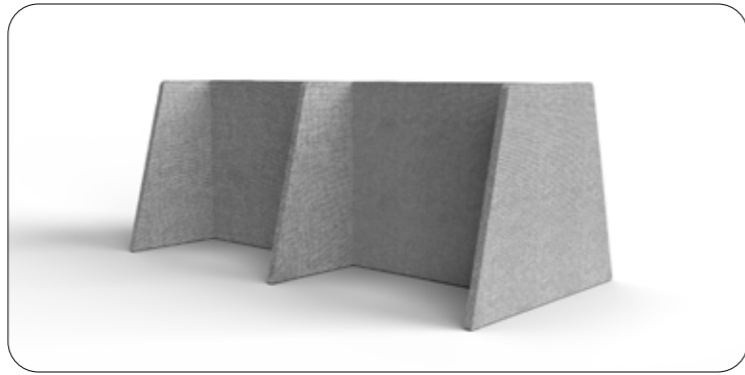
U-position



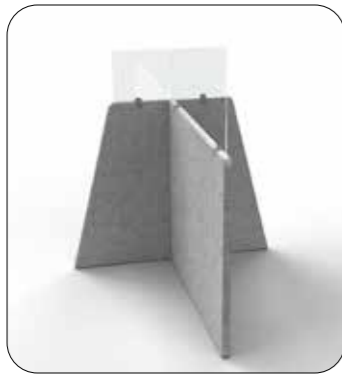
Double-U-position with 400 mm glass topper



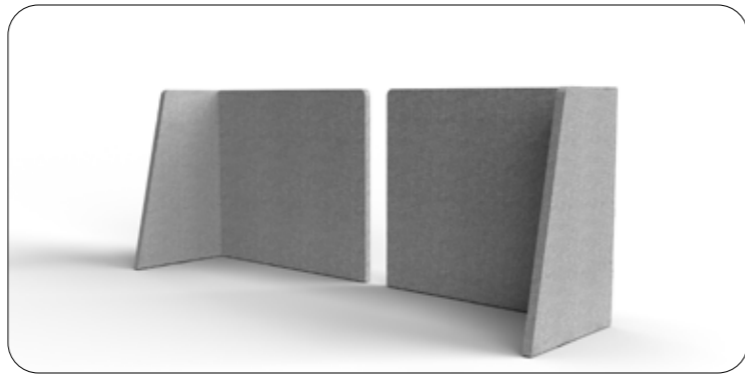
H-position



Double-H-position

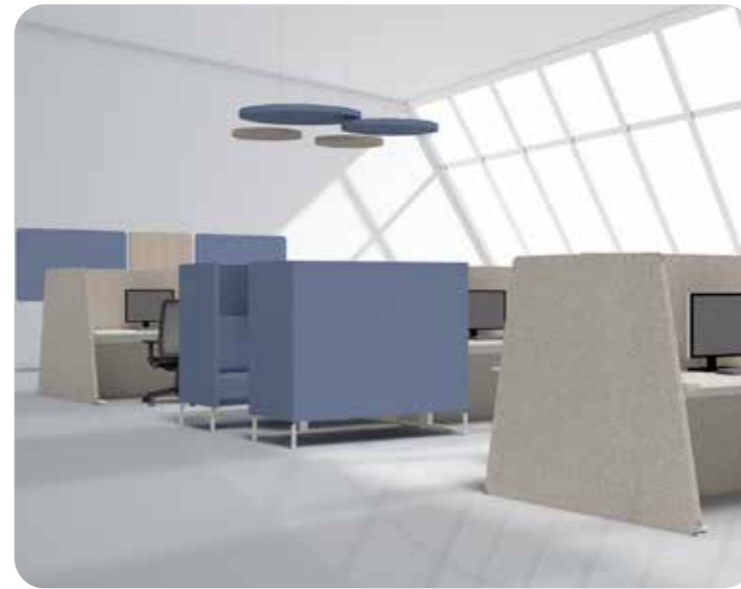


T-position



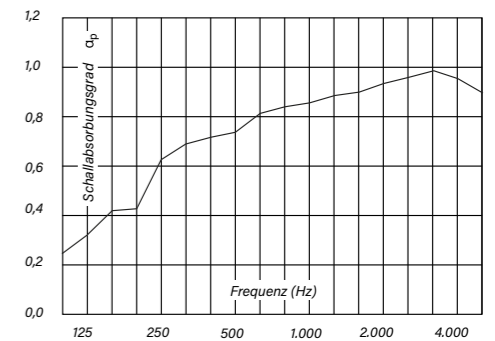
L-position left and right

Mood Line 55 connect in the version with trapezoidal side panels (available in heights of 1200 and 1400 mm). The widths and depths of the different positions are designed for table widths of 1200, 1400, 1600, 1800 and 2000 mm and for table depths of 800, 900 and 1000 mm. Offered are 17 fabric collections (10 collections also as quilted fabrics) in 5 price groups with over 500 colours.



Mood Line connect trapezoidal planned in Acoustic Concepts 2.1 Multi-Person Office >>

Mood Line 55 connect



Sound absorption level – octave centre frequency

With its modular design, adapted to ergonomic sit-stand desks, the Mood Line 55 connect is particularly at home in open office spaces.



Fixed table distance to the partition wall facilitates compliance with work safety.



The depth of the side partitions can be adjusted exactly to the depth of the worktable or can spring back.



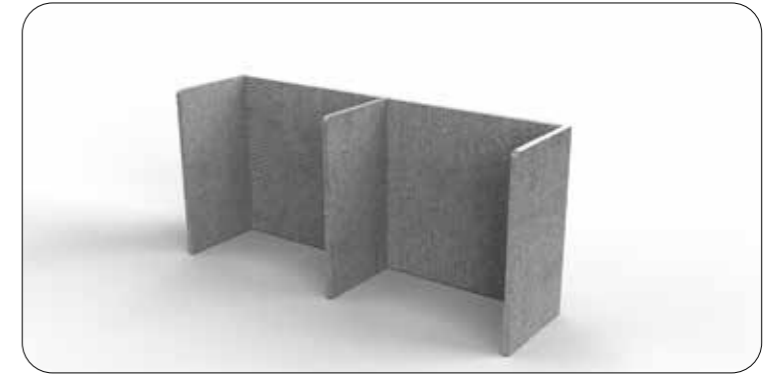
Mood Line 55 connect in a vertical design (available in heights of 1200, 1400 and 1600 mm) with strict geometry. The widths and depths of the different positions are designed for table widths of 1200, 1400, 1600, 1800 and 2000 mm and for table depths of 800, 900 and 1000 mm. Offered are 17 fabric collections (10 collections also as quilted fabrics) in 5 price groups with over 500 colours.



Mood Line connect vertical design planned in Acoustic Concepts 3.1 Call Centre >>



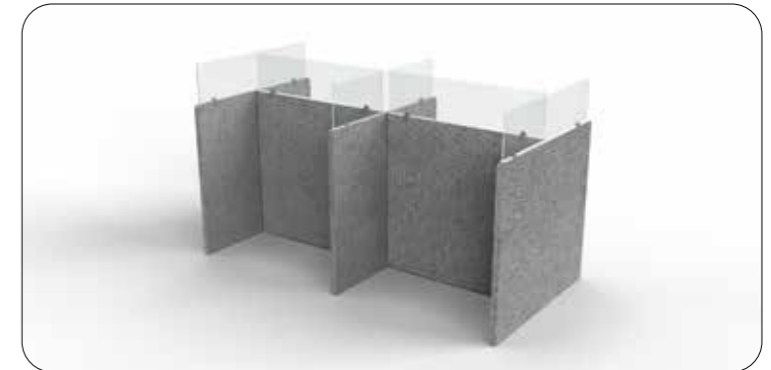
U-position



Double-U-position



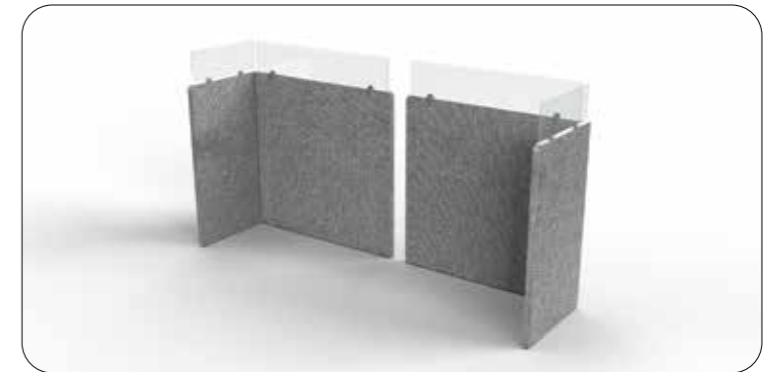
H-position



Double-H-position



T-position



L-position left and right



Glass attachments can be retrofitted without tools, & provide additional protection while maintaining the visual axes.



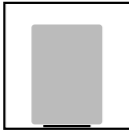
Also ideally suited for screening measures in meeting or technical zones.

Mood Line 55 connect >>

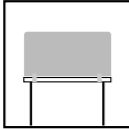
Free Line 40

light as a feather & flexible

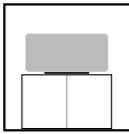
Partition



Desk



On-Cabinet



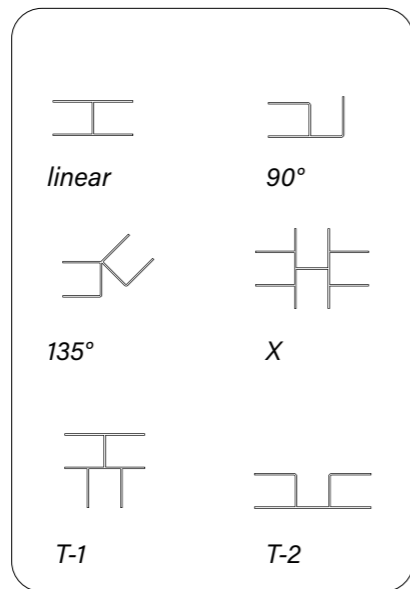
In the beginning is the idea. And with it a spark that ignites boundless creativity. With the ultra-light **Free Line** movable wall system, including table elements and cabinet add-on elements, creative ideas and new requirements can be implemented easily and safely. The fully upholstered and sound-absorbing walls offer complete flexibility for a quick change of

workplaces and room zones through the simplest handling. Intelligent connecting elements enable uncomplicated, tool-free conversion of the wall positions and easily attachable centre feet provide additional stability.

Free Line - optimising room acoustics is child's play - designing areas harmoniously and creatively.

Free Line offers architects and planners a wide range of design options and, with a choice of 16 fabric qualities, divided into 5 price groups, an exceptionally large selection of structures and colour nuances. The appearance of the partition walls, table elements and wardrobe units is warm and balanced when they are used in the quilted version. There are 10 fabric collections available for quilting.





Connection options



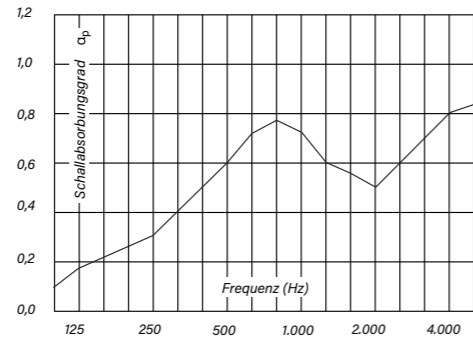
Wall position with T-1 connector



X-connector, powder-coated

For an inspiring environment, diverse uses and optimised room acoustics: Free Line, the ultra-light movable wall system.

Free Line 40



Sound absorption level - octave centre frequency

*Implement
creative ideas
and new
requirements
easily and safely.*

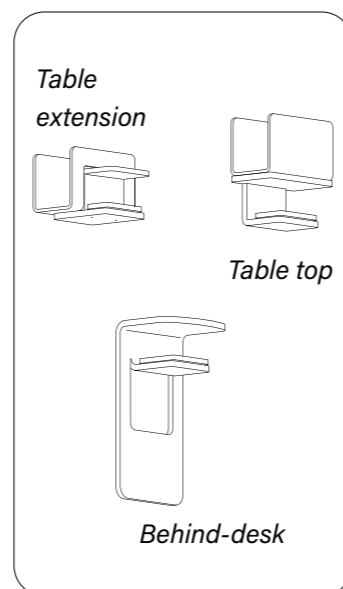


Flexible use - Partition walls with central foot



Free Line partition walls in T-position

Flexible for quick changes - Free Line as table extension element

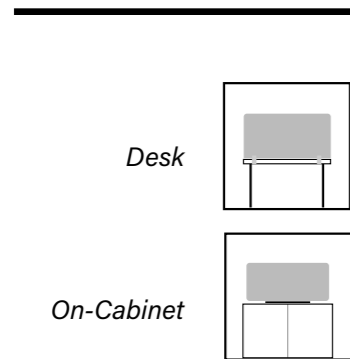


Free Line On-Cabinet elements and partitions



Free Line behind-desk screen

Free Line 40 >>



The workstation **protective screens** can be used to screen individual workstations or entire room zones safely and with high design quality. Made of toughened safety glass (ESG), the protective screens have a high-quality finish and are equipped with fine bevelled edges and rounded safety corners. They are offered not only as table top and back table elements, but also as cabinet and counter tops as well as suspended safety shields for free ceiling suspension. To increase safety and as a design element, a partial satin finish is recommended depending on the positioning. Screens can be freely positioned close to the table frame without any problems and without any risk of tripping.

Protective screen

Security & personal protection



The workstation **protective screens** can be used to screen individual workstations or entire room zones safely and with high design quality. Made of toughened safety glass (ESG), the protective screens have a high-quality finish and are equipped with fine beveled edges and rounded safety corners. They are offered not only as table top and back table elements, but also as cabinet and counter tops as well as suspended safety shields for free ceiling suspension. To increase safety and as a design element, a partial satin finish is recommended depending on the positioning. Screens can be freely positioned close to the table frame without any problems and without any risk of tripping.

Acoustic screens in combination with glass topper are also ideally suited as protective screens, as are movable screens in partial or full glazing.

The **Prime Line** and **Silence Line** series offer a wide range of equipment variants, including the upgrading of table elements and movable wall elements with all-glass panels to increase the screening effect while maintaining the desired visual axes in the room. Acoustics and safety go hand in hand, so to speak, and can thus be designed very efficiently. Particularly for room situations that require a high protective screen, the movable wall systems with their glazing enclosed in the frame are ideally suited.



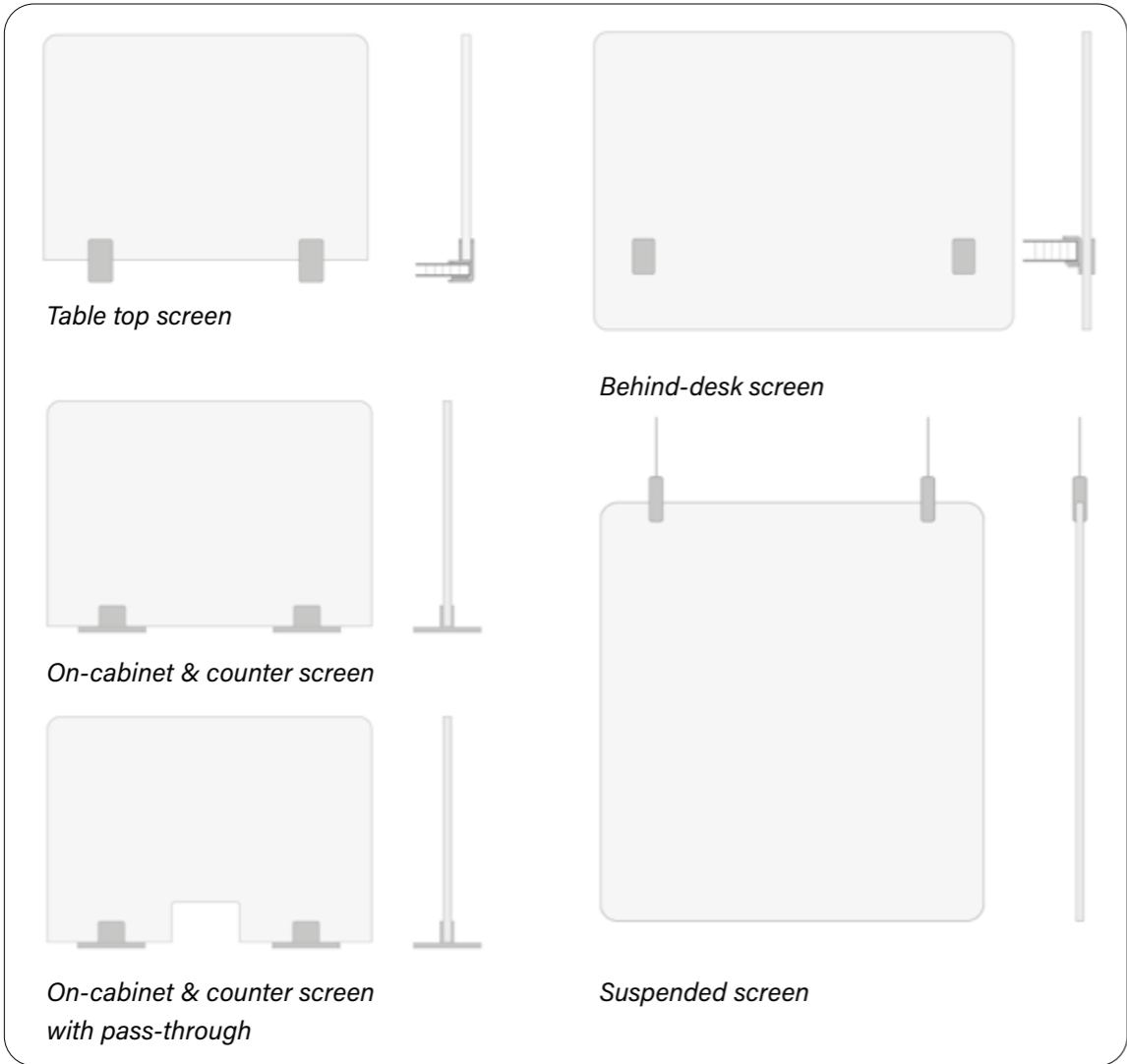
*T-combination
with glass topper*



*Top: Prime Line 55 table element with glass topper
Below: Prime Line 40 movable wall and table elements
with glass topper*



*Silence Line element
with glass topper*



Suspended screen



Top: Table top screen
Bottom: Behind-desk screen with "mikado" foiling

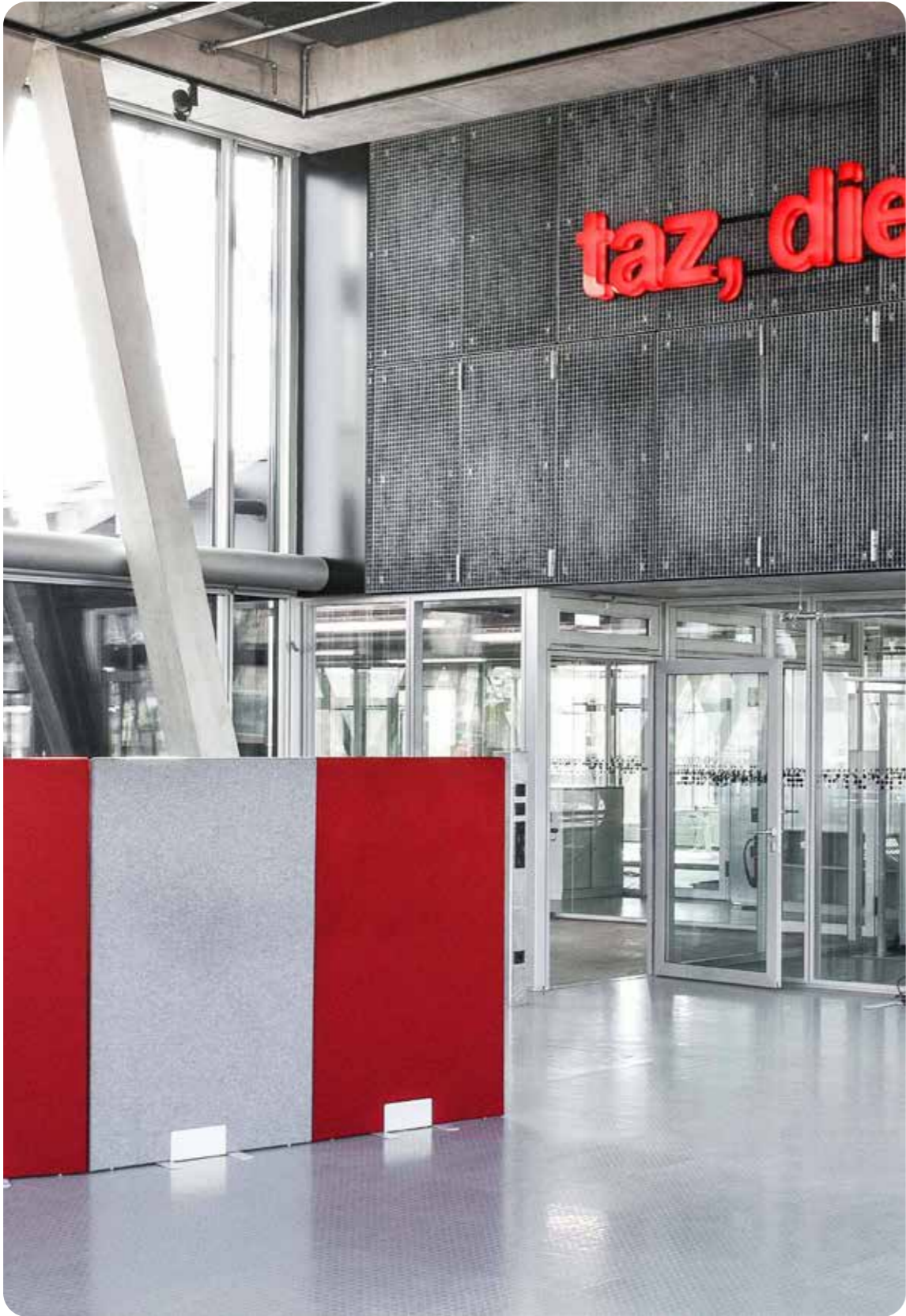
Protective Screens@work >>

*AOS IS YOUR POWERFUL
PARTNER –*

*in large-scale projects with
individual solutions tailored
to your requirements and
needs. As the specialist for
customized acoustic solutions,
we provide answers to the
growing demand for flexible
and safe forms of work and
working environments.*

References

Impressive acoustic solutions



BKK-VBU

Project "People & Space & Technology"

BKK-VBU says: "With our project "People & Space & Technology" we are redesigning our own working world. Not by buying a concept and putting it over ourselves, but by optimally matching our requirements and needs with the possibilities on site. At our Duisburg location, we have created spaces as opportunities - for workplaces that make the philosophy of our project tangible for the first time. A workplace at BKK-VBU follows the tasks that are done at it. And not the other way round. Whether concentration, collaboration or communication: our spaces create the

possibilities and are designed and equipped for each of these three task areas. So that people can use and experience them. To realise this future-proof redesign, we needed strong partners and are pleased to have found such a partner in AOS in the issues of room acoustics that are important to us." The workplaces of BKK-VBU were equipped with partition walls from the Prime Line 40 room partitioning series. The decision was made in favour of highly sound-absorbing acoustic walls on both sides in the height of 1400 mm, equipped with an additional glass top in the height of 400 mm.





The lateral shielding was extended and chosen deeper than the work table depth. An important feature of the sound shielding: there is no gap in the linear as well as in the right-angled connections and additionally in the connection of solid wall to glass attachment.

The characteristic of the solid walls with "centrally increased sound insulation" ($R_w = 25\text{dB}$) and at the same time highly sound-absorbing is the supporting foundation of the acoustic concept realised there.

The design of the joints without gaps is an important feature of sound shielding.

Reference

BKK•VBU, Duisburg

Products

Prime Line 40 System

taz Publishing Company

Flexible room division with Free Line

The national daily newspaper "taz" was born in 1978 entirely out of the spirit of the left-wing West Berlin protest culture. In 1989, the publishing house, which repeatedly ran into financial difficulties, moved to the immediate vicinity of the Berlin Wall and Checkpoint Charlie. Here, in the Kreuzberg district, about 250 employees were distributed between a Gründerzeit building and a new glass building. Since both buildings were threatening to burst at the seams, the publishing house acquired a plot of land between Friedrichstraße and Besselpark in the creative quarter that had been created - also in

order to finally reunite all the employees under one roof.

In a large-scale architectural competition, the Swiss architects E2A came out on top with a design that seemed to correspond best with the special

A workshop atmosphere is part of the concept - the highly flexible Free Line room partitioning system provides the appropriate support.

design. The characteristic diamond network of hot-dip galvanised steel is also intended by the builders to be



reminiscent of the avant-garde radio tower by Vladimir Shukhov and is also intended to allude to the flat work hierarchies that are at work inside. Concrete and glass are the dominant materials there. The support structure, which has been shifted to the edge, creates generous room contours that can be freely played with. The 13-metre-deep rooms create a changeable workshop

ambience. The architecture is destined to enable staff to create their own personal working environment – resulting overall in the vibrant works associated with the taz. In addition, in the loft-like rooms flexible acoustic solutions come into play that can be specially adapted to the employees' particular requirements. The ultra-lightweight Free Line movable wall system from AOS

The deep rooms create a changeable ambience, Free Line offers an additional flexible acoustic room division.



The upholstery of the movable walls is in grey and red - in reference to the exposed concrete and the red letters for which the newspaper is known.



AOS not only guarantees first-class acoustics, but also creates the necessary room division.

not only guarantees first-class acoustics, but also creates the necessary room division. The walls of the Free Line system are upholstered either in the red tone of the taz logo or in a grey tone that harmonises with the exposed concrete surfaces. The sound-absorbing wall and table top elements at their core stand for easy handling and complete flexibility, making it child's play to change workplaces quickly. Thus, with the taz Verlagshaus, a working environment has been created that only took full shape when the employees moved in and that is in a constant state of change.

The partition walls divide the workplaces, create functional zones, provide privacy and thus decisively improve the acoustics in the spacious rooms.

Reference taz Publishing Company

Products Free Line Partitions

W&W-Campus

Acoustic optimisation with Prime Line

The W&W Campus, which is expected to be completed by 2023, will unite all of the Group's companies under one roof - thus continuing what began in 1999 with the merger of Wüstenrot and the Württembergische insurance companies. Thus, a modern office campus is being built in Kornwestheim, about 20 kilometres from Stuttgart, which at the same time emphasises the history and regional roots of the two companies. The project was preceded by an architectural competition in which the Berlin-based architectural firm Ortner & Ortner Baukunst won. In memory of Wüstenrot's history, seven four-storey office buildings are grouped around the campus of terraces and passages in a loose arrangement structurally reminiscent of a village. Similar to a village main street, all communal functions are lined up along a connecting axis and can be easily reached on foot. The

numbering of the individual buildings also follows the familiar system - with even house numbers on one side and odd numbers on the other. The integration of the orchards that surround the area also corresponds to the regional campus concept. Two office buildings have been occupied by the approximately 1,200 employees. In the second construction phase, which has already begun, five more buildings are to be built by 2023 and complete the campus, which will then offer about 4,000 workplaces. Short distances will then characterise the new area. The campus is already being entered through a spacious reception area. The materials terrazzo, wood and exposed concrete already dominate here. The curved café surrounded by wood and glass as well as bright communication zones welcome staff and visitors.

The dynamic office world, which is also acoustically optimised by the Prime Line room partitioning system, is in keeping with the modern concept.



The slats signal transparency and provide a soothing visual shield from the office environment.

Inside, too, the campus buildings present themselves as a modern, transparent and dynamic working environment: the OpenDesk concept practised here promotes agile working and leads to more efficient use of office space and workplaces through spatial and organisational flexibility. TeamBüros promise multifunctional use: each office module includes three individual offices as well as two open secretarial workstations and 28 open desk workspaces arranged around a central zone. This offers additional working possibilities, optionally for retreat, communication or storage space. The staff can always choose anew which space is best suited to their tasks and, for example, fall back on think tanks or alcoves. The designers opted for the Prime Line system to divide the space.



The behind-desk screens could easily be combined with the electrically height-adjustable tables. At the sides, for example, a combination of a classic partition wall and the slat solution of the Prime Line System forms the boundary of the open-plan workplaces. The slats signal transparency and provide a pleasant visual shield from the office environment. The think tanks placed in the central zone are also encased in acoustic surfaces and blend into the modern office ambience, where highly concentrated and at the same time communicative work is possible.

Reference

W&W-Campus, Kornwestheim

Products

Prime Line System



TRUMPF Sales- and Servicecenter

*Common rooms with
acoustic added value*

Since the mid-1990s, several buildings have been constructed for TRUMPF in Ditzingen, Baden-Württemberg, based on designs by the Berlin architectural firm Barkow Leibinger. As the company grew, the area at the headquarters became more and more spacious, while at the same time other locations were built around the world. In the east of the Ditzingen company grounds, the architects planned a customer and employee-oriented campus, on which administrative buildings, a training centre and a company restaurant are grouped. In 2003, the sales and service centre was completed here - designed as an open office world that extends continuously over nine staggered levels and combines all sales functions under one roof. Visitors have the

opportunity to find out more about the company in the spacious foyer and can learn more about the company's know-how in the showroom area, which is accessible from here via an underground corridor. In order to install new work concepts such as desk sharing, the Sales and Service Centre was remodelled so that the newly developed TRUMPF Office Workplace Concept, which until then had only been a dominant feature in one company building, could come into its own here. The new concept converts workspaces that are not needed into meeting and conference rooms. This creates new space for concentrated work, meetings and exchange. An attendance count and other studies had previously shown that only 50 to 73 per cent of the workstations were occupied at the same time.



The space gained by the desksharing and freeseating concept offers possibilities for furniture concepts in the areas of communication, concentration and creativity. Whereas in the past informal conversations often caused unrest and disturbed the concentrated work of colleagues, now cubes, alcoves or meeting points are provided for informal conversations. Of course, these new elements can also be used for particularly concentrated work or longer telephone calls. The room-partitioning system Prime Line becomes an important element of the open-space concept,

as it allows the continuous area to be divided into comfortable units and guarantees the acoustic quality that makes concentrated work possible in the first place. The highly sound-absorbing partition walls and desk panels were adapted to the colour concept - a noble shade of grey dominates in the work zones, and metal in the meeting cabins. The work surfaces with the height-adjustable desks are oriented towards the window side, and the lockers, in which employees can store work utensils and private objects, are located close to the movement zones.

Reference

TRUMPF Sales and Service Centre, Ditzingen

Products

Prime Line System

ZF Forum

All-round carefree package room acoustics

The building, which is intended to convey openness and dialogue, houses a modern, stylish office environment inside, which is also characterised by the Mood Line acoustic room division system.

With the ZF Forum, ZF Friedrichshafen AG, the world's second-largest automotive supplier, has returned to its original location - the Zahnradfabrik Friedrichshafen AG was founded here in 1915. Fittingly, the commissioned architect Prof. Wolfgang Kergaßner titled the new building a "place of gathering", which stands for openness and dialogue. The term "Forum", which was initially intended merely as a working title, turned out to be quite appropriate during the work on the project - after all, the term intuitively encompasses the requirement profile and already points to a meaning that goes beyond the mere spatial programme. An affinity for technology and an active engineering spirit give the building a

new value. The architects fulfilled their brief with a proud house that positions itself in a self-confident gesture in the immediate vicinity of the shores of Lake Constance. The overall task for the planners was to develop "a subtle balance between functionality and aesthetic preference." The architecture of the new building was to be "people-friendly", "stimulating", "encouraging", "open" and "communicative", thus conveying a passion for innovation to visitors and staff. The new building unites all business areas. On the ground floor, the history of the company can be experienced as an interactive exhibition concept. The levels above are followed by the staff restaurant, a separate boardroom area with the academy and the company's head office. The architects distributed the large building mass over four wings, which seem to be visually connected in the central atrium via the ceiling

construction. The atrium also takes on an important identity-creating role as a connecting communicative centrepiece by providing access to all four wings. In addition, the towering building sections in the atrium, which seem to rotate around a centre, lead to an interesting and reciprocal play of light and shadow. The exceptional structural and technical quality

was also achieved by different specialist planners contributing their know-how. In this way, ambitious environmental goals were achieved in cooperation with the experts from Transsolar KlimaEngineering from Stuttgart. The consulting and planning company KOP from Weinstadt realised the entire interior planning, including the offices. The office concept was developed

by the Fraunhofer Institute for Industrial Engineering IAO together with ZF Friedrichshafen AG as an open desk-sharing structure that also offers retreat options. Beforehand, several surveys were conducted among the employees, according to which the approximately 600 employees were distributed among the four office wings. In each wing, a mixture of team and individual



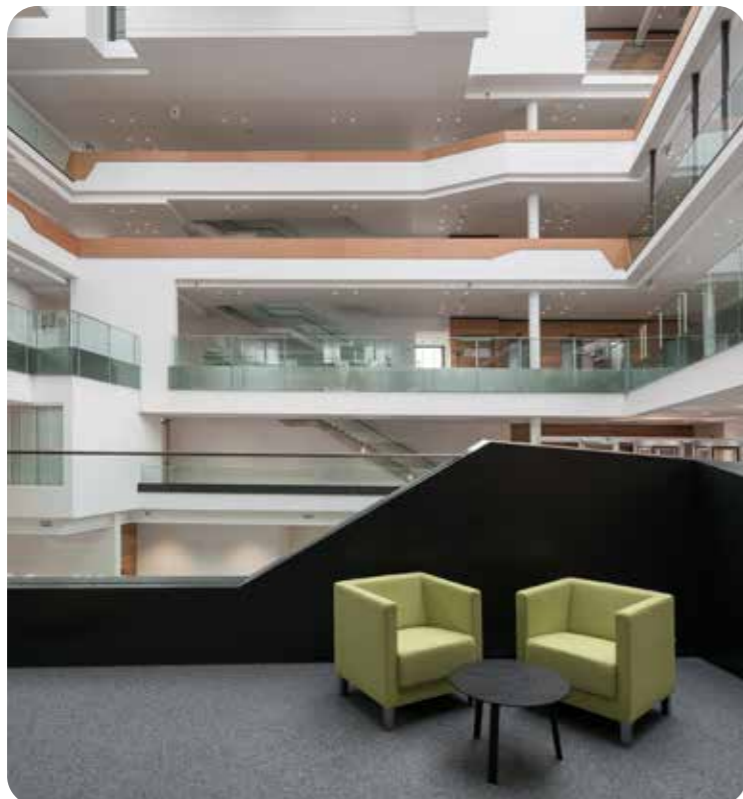
Behind-desk screens and on-cabinet elements ensure good acoustics and an excellent working atmosphere.



Mood Line convinces not only with its functional quality, but also with its individual production.

workplaces as well as retreat zones is dominant. Anyone entering one of the wings first reaches the so-called Market Place - this is where the coffee machines, bistro tables and lockers for personal belongings are located. Adjacent to this are areas where coloured alcoves are available for spontaneous meetings. Here, in turn, are the group workplaces, which in parts are reminiscent of the classic open-plan office. In the rear part of the wings, the so-called library allows highly concentrated work. In each wing, the rule applies: the further you work, the lower the noise level - this development can also be seen in the use of acoustic walls. The

transformation of the office concept into the ZF Forum, the detailed planning of the interiors and the furnishings were developed and realised by KOP in cooperation with the Fraunhofer IAO and ZF Friedrichshafen. AG This was based on the concept study prepared by the multi-award-winning interior experts from the Ippolito Fleitz Group in Stuttgart. The Mood Line room-partitioning system from AOS, which was used in Friedrichshafen, is impressive not only because of its functional quality, but also because of its individual production. The fully upholstered partition walls and table elements convey a matter-of-fact elegance and a sense of security thanks to their rounded corners and high-quality workmanship. At the same time, the room dividing elements were adapted to the prevailing colour concept of muted brown and green tones.



Reference

ZF Forum, Friedrichshafen

Products

Mood Line System

EVN Headquarters

*Prime Line
in all office areas*

Planning in a grid and modular systems of order were some of the topics that particularly concerned the Viennese architect Franz Kiener (born 1926). One of his most important buildings is the EVN administration building erected in 1963 together with Wilhelm Hubatsch and Gustav Peichl in Maria Enzersdorf - the southern part of the Austrian capital. More than 600 employees work at the headquarters of the international, listed energy and environmental services company. Decades of operation and restructuring have resulted in different

office concepts in the bar-shaped, elongated building. Despite several conversion measures carried out by the Viennese architectural office Katzberger, it became clear, especially in connection with the increasing digitalisation of the company, that a uniform office concept had to be developed. Together with the Katzberger architectural office and the consulting firm M.O.O.CON, a concept was created for a step-by-step implementation during ongoing operations - based on the future images and activity types developed by the company. The analysis also included



The blue upholstered partitions of the printer islands set colourful accents.

On-desk screens provide room structuring and sustainably improve acoustics.



Partition walls and cabinet add-ons of the Prime Line system are part of the interior concept.



Prime Line meets the target acoustic values and corresponds perfectly to the design concept.

a categorisation of the different types of activities - 190 representative employees were surveyed for this purpose. The planners then developed room concepts. With regard to acoustics, acoustic values were initially defined as targets. It soon became clear that the Prime Line room partitioning system met these requirements and perfectly matched the design concept. The desk panels and room dividers could easily be adapted to the colour concept: This provides

for a triad of blue, yellow and green for each floor. In turn, each section is dominated by one leading colour. The result is an open working environment with assigned workplaces, opportunities for retreat and plenty of space for collaboration and exchange. The newly created communication zones are particularly popular and are part of a successfully implemented new office culture.

Reference

EVN Headquarters, Vienna

Products

Prime Line System







A wide range of fabrics is available for **AOS Akustik Office Systeme** products.

Only a limited selection can be shown here.

For further information visit our website

www.akustik-office-systeme.de



	Fabric	Material	Look	Width
 Polyester	Sprint	Polyester	Uni	1.500 mm
	Era		Melange	1.400 mm
	Medley		Melange	1.400 mm
 Recycled Polyester	Lucia	Recycled Polyester	Uni Crepe	1.700 mm
	Rivet		Melange	1.400 mm
	Cura		Two-coloured	1.400 mm
	Xtreme		Uni Crepe	1.400 mm
 Trevira CS	Lucia CS	Trevira CS	Uni Crepe	1.700 mm
	Twist/Melange		Uni/Melange	1.700 mm
	King L		Uni/Two-/Three-coloured	1.400 mm
	Roccia		Two-coloured/Melange	1.400 mm
 Wool	Blazer	New sheep's wool 100 %	Felt	1.400 mm
	Blazer Lite	New sheep's wool 100 %	Felt	1.700 mm
	Connect	New sheep's wool 48 %, Recycled Polyester 41 %	Melange	1.400 mm
	Crisp	New sheep's wool 93 %, Polyamid 7 %	Melange	1.400 mm
	Main Line Flax	New sheep's wool 70 %, Flax 30 %	Melange	1.400 mm
	Passion	New sheep's wool 91 %, Polyamid 9 %	Multicoloured	1.400 mm



Standard: Polyester nonwoven

– 100 % PES fibres

Polyester nonwoven ...

- is recyclable by type.
- consists of approx. 60 % recycled fibres.
- is highly sound-absorbing and reduces reverberation.
- is extremely durable and moisture-resistant.
- is without chemical additives.
- is certified according to Standard 100 by OEKO-TEX®.
- is skin-friendly and allergy-friendly.
- Flame resistance according to DIN 4102: PES nonwoven B1



Optionally: Pure new sheep's wool

– 100 % sustainable

New sheep's wool ...

- is renewable, natural and regional.
- is highly sound absorbent and reduces reverberation.
- is moisture regulating.
- is non-allergenic.
- breaks down pollutants.
- neutralises odours.
- is permanently biocide-free protected by Ionic Protect®.
- has an antibacterial effect.
- Fire protection according to EN 13501: Sheep wool insulation D-s2 d0; Sheep wool felt C-s2 d0;
- is self-cleaning.



We're looking forward to hear from you!



www.akustik-office-systeme.de

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