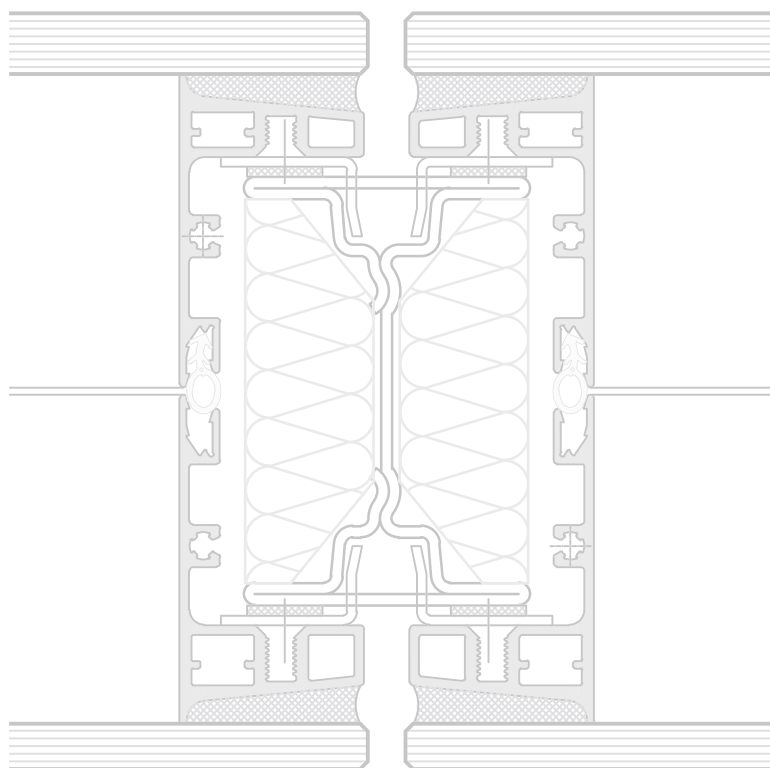


# Partition System 2300



# System 2300

Design with mullion - flush bonded glass  
100 mm wall thickness  
125 mm wall thickness

Flush-bonded glazed wall without a visible frame which creates open and transparent space. The innovative partition wall System 2300 is the flush bonded glazed version of the System 2000 family. It is characterised by its plain surface and the mirroring effect of its glazing in combination with highly efficient sound insulation and fire prevention.

The basis for this highly flexible partition wall system with modular panel design for walls is the patented Strähle mullion with integrated suspension for panels, glazing and accessory systems. The glazing is manufactured as a complete element to be suspended from the mullion on both sides.

Door elements are available in different variations such as solid doors, aluminium framed or flush bonded doors. In the case of exceptionally high rooms or if higher acoustic performance is required, it is recommended to utilise a variation of System 2300 partition wall which is 125 mm thickness.

## Design

Design with mullion

## Options

Flush bonded glazing without visible frame made of toughened safety glass or acoustic laminated glass

## Element types

Fully glazed, clerestory, balustrade

## Surfaces

Glass wall (toughened safety glass / acoustic laminated glass)

Solid wall (melamine, veneered, HPL or lacquered)

## Bonding

Light grey (black and white upon request)

## Wall thickness

100 / 125 mm

## Visible width

Glass wall: frame width 2 x 25 mm / 2 x 35 mm

Solid wall: 5 mm joint

## Sound insulation

Glass wall: up to Rwp 54 dB

Solid wall: up to Rwp 56 dB

## Fire prevention

Glass wall: various - further details upon request

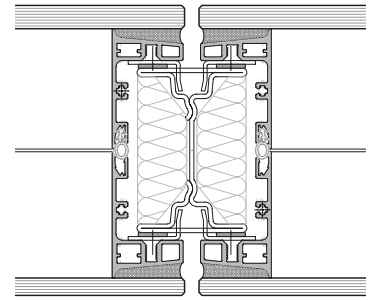
Solid wall: various - further details upon request

## Accessories

Acoustic absorbers, blinds, climate control elements, accessory systems

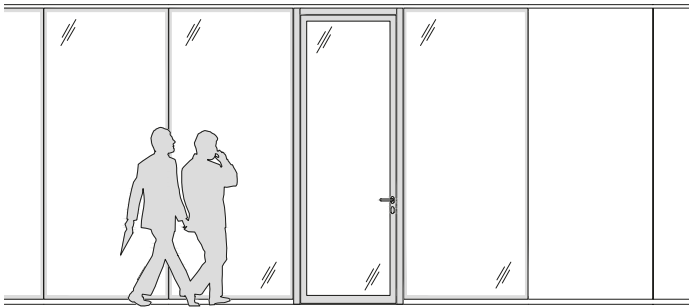


Flush bonded glazing

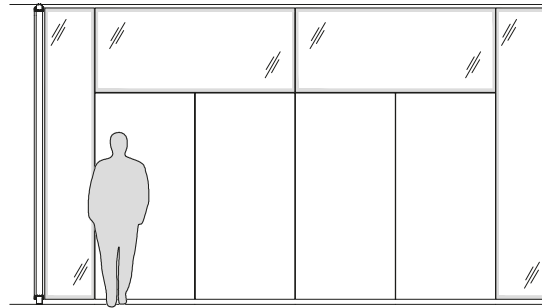




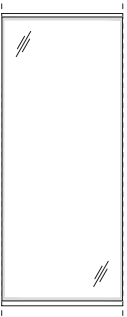
Corridor wall with flush bonded door



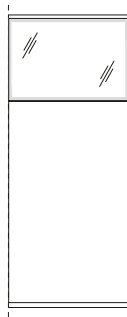
Cross wall



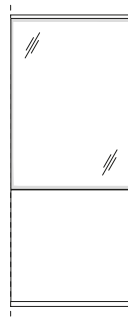
Glass element



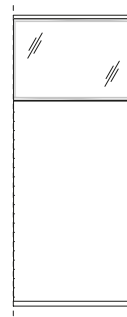
Clerestory element



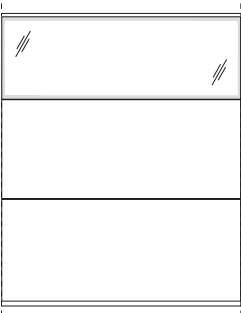
Balustrade element



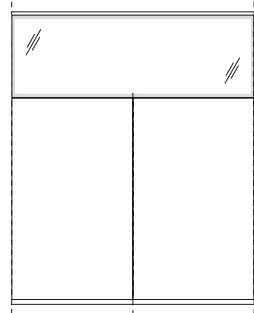
Acoustic absorber element with clerestory



Clerestory element horizontal division



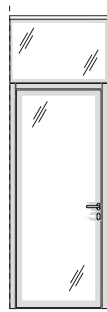
Clerestory element 2 modules



Flush bonded door ceiling-height



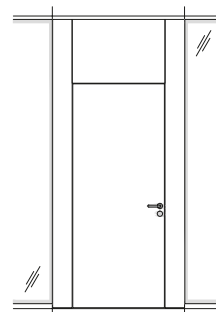
Flush bonded door with clerestory

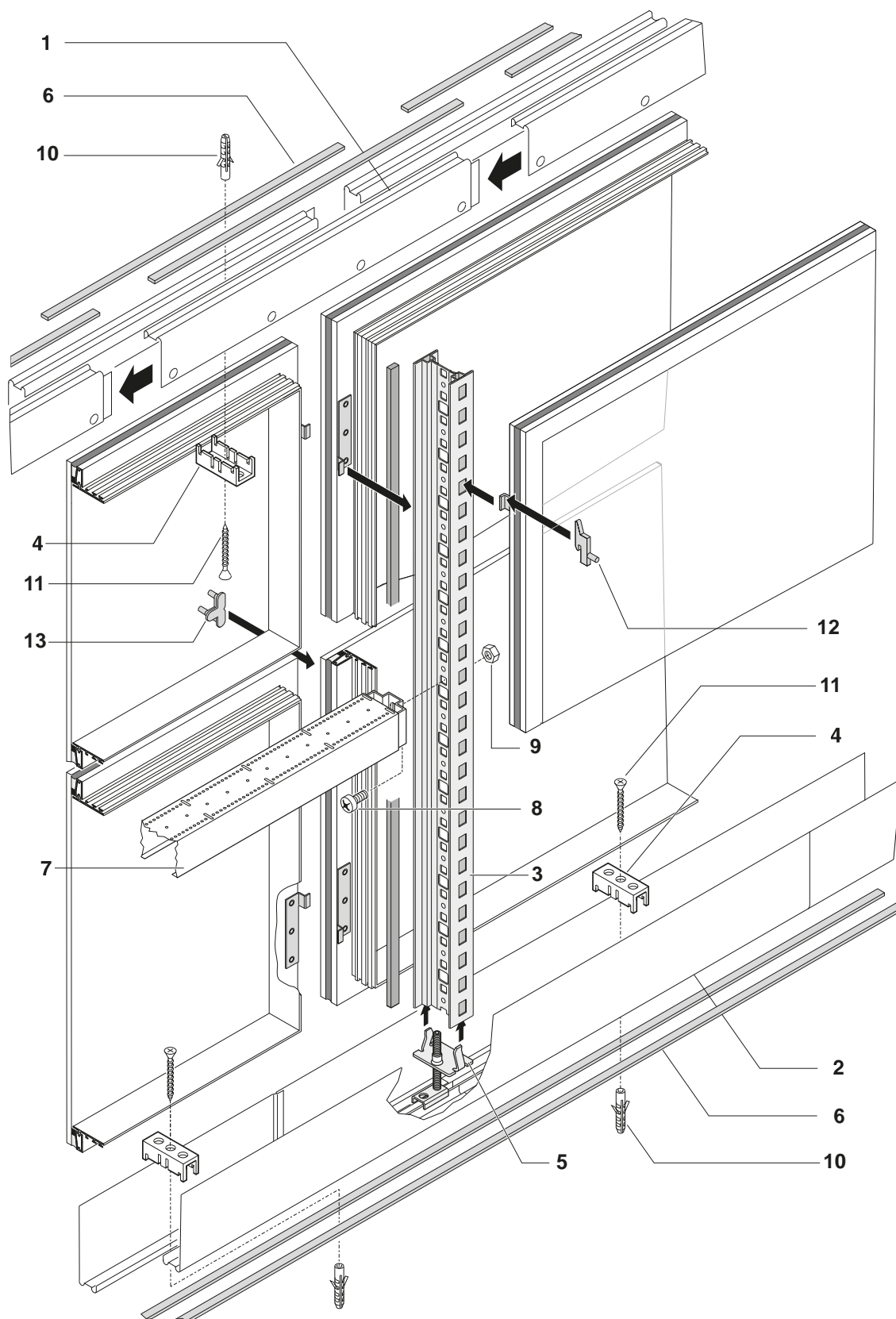


Flush bonded door with clerestory and side panel



Solid door with solid side and over panel





1 Ceiling L-profile

2 Floor L-profile

3 Steel mullion, RAL 7016

4 U-bracket

5 Adjustable foot

6 Acoustic insulation strip

7 Transom

8 Bolt

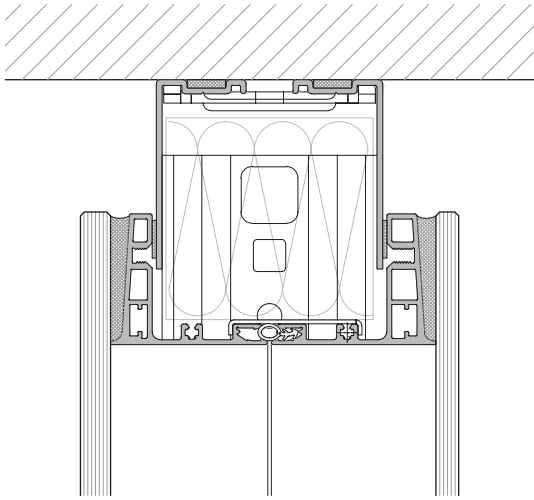
9 Nut

10 Plug

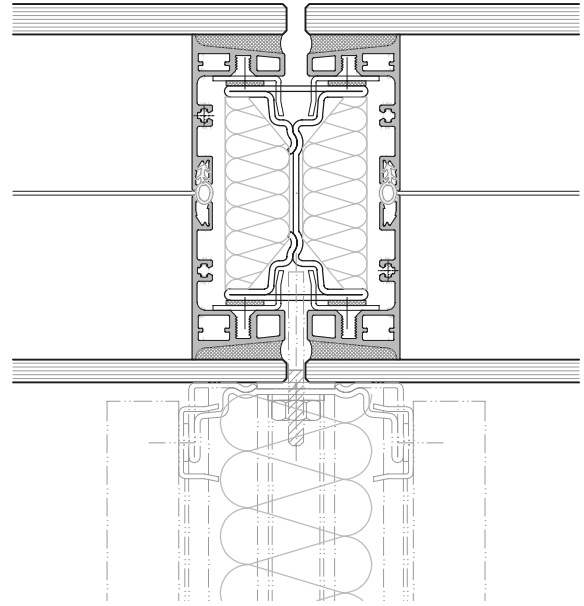
11 Anchoring screw

12 Hook bracket

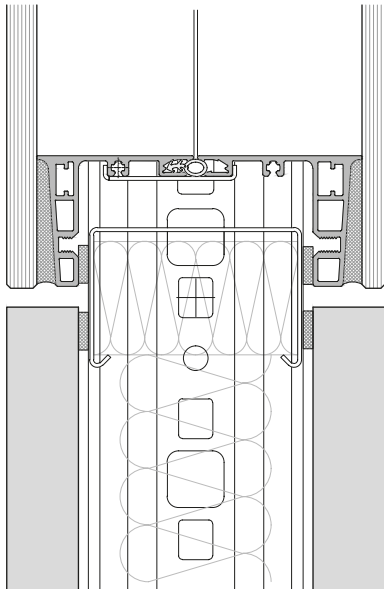
13 Spacer



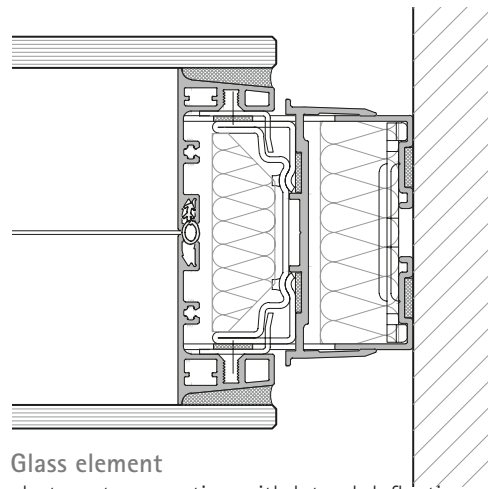
Clerestory ceiling connection



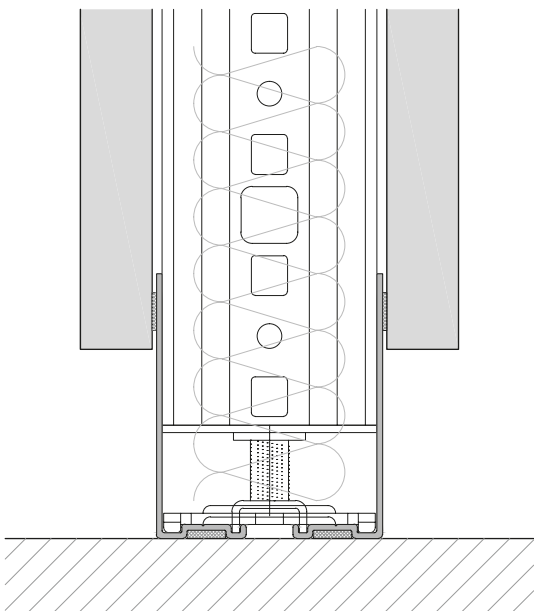
Glass wall T-junction



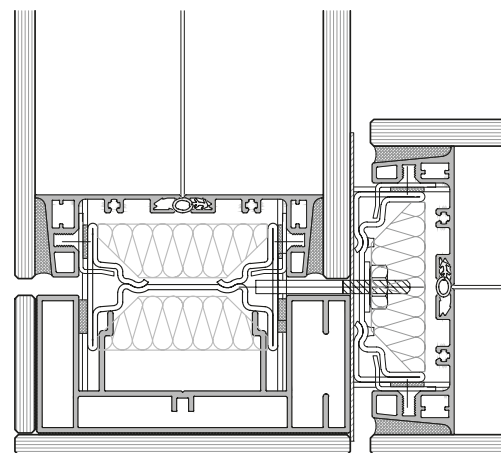
Solid wall horizontal joint



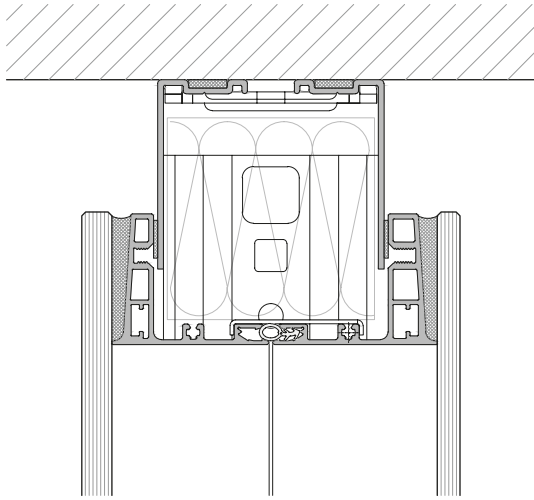
Glass element  
abutment connection with lateral deflection



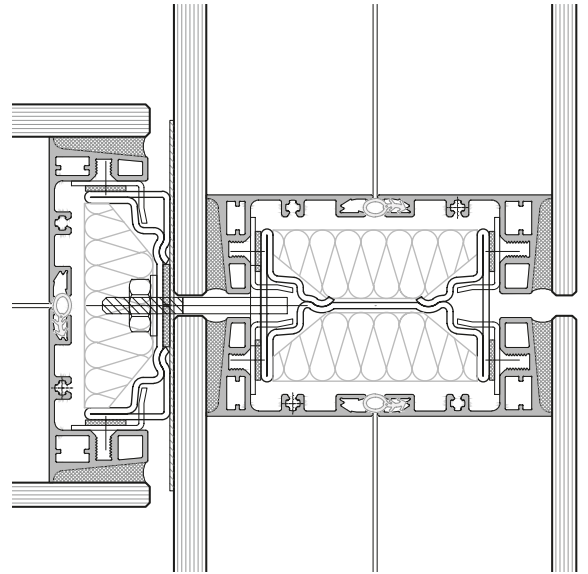
Solid wall floor connection



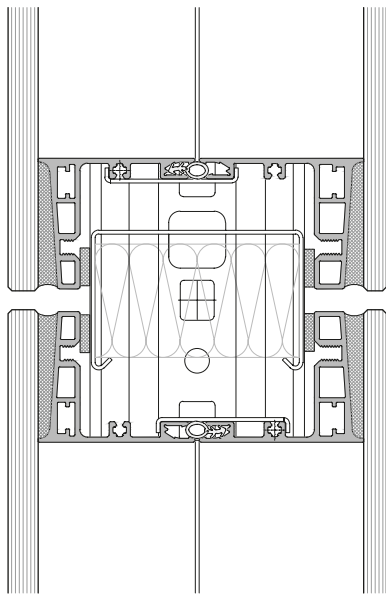
Glass wall 90° Corner element



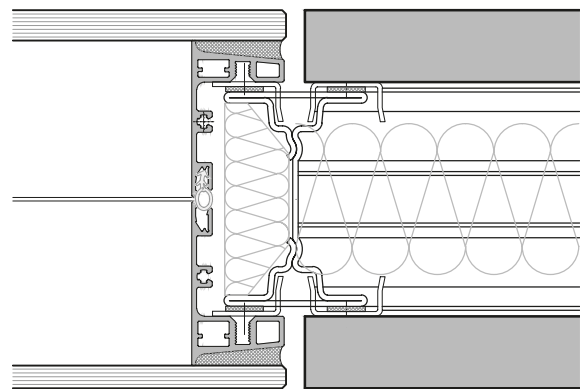
Flush glazing vertical section



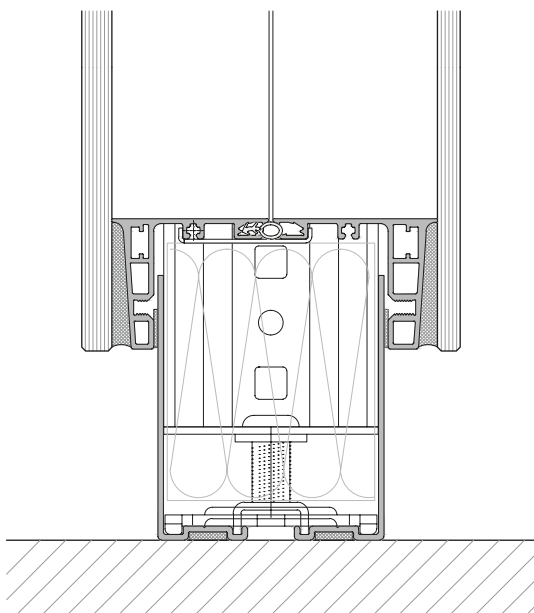
Flush glazing T-junction



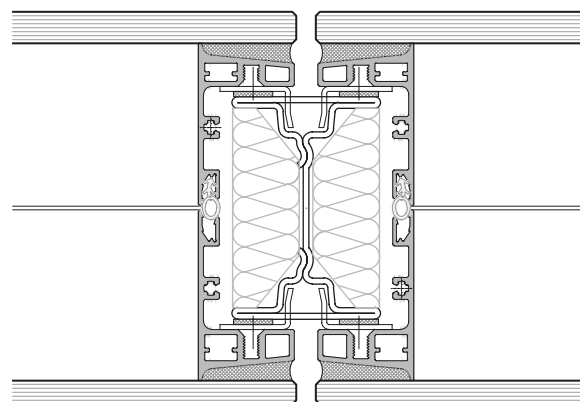
Flush glazing horizontal joint



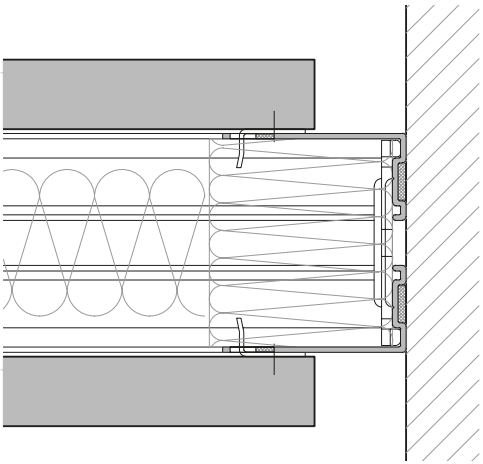
Flush glazing to solid straight connection



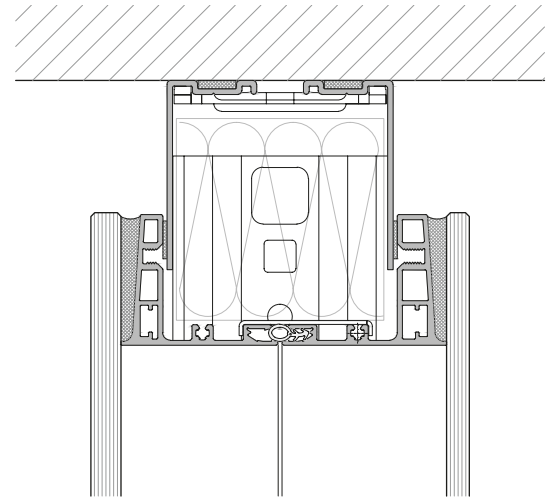
Flush glazing floor connection



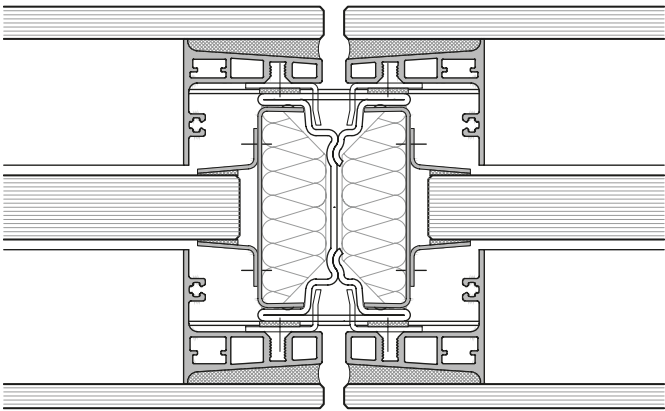
Flush glazing to flush glazed straight connection



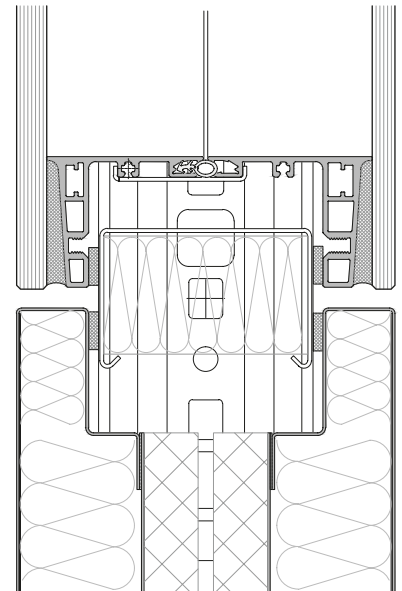
Solid wall abutment connection



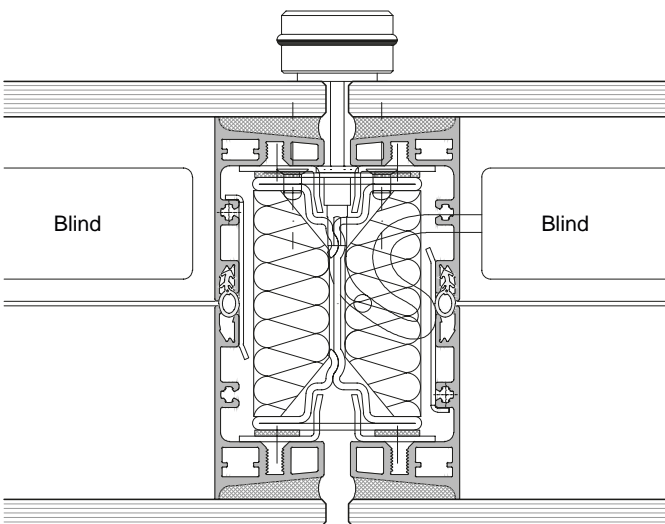
Flush glazing vertical section



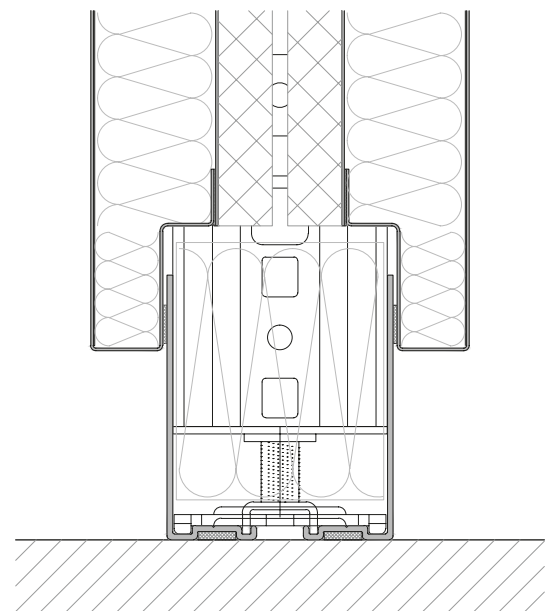
Solid wall abutment connection with lateral deflection



Flush glazing acoustic absorber for horizontal joint

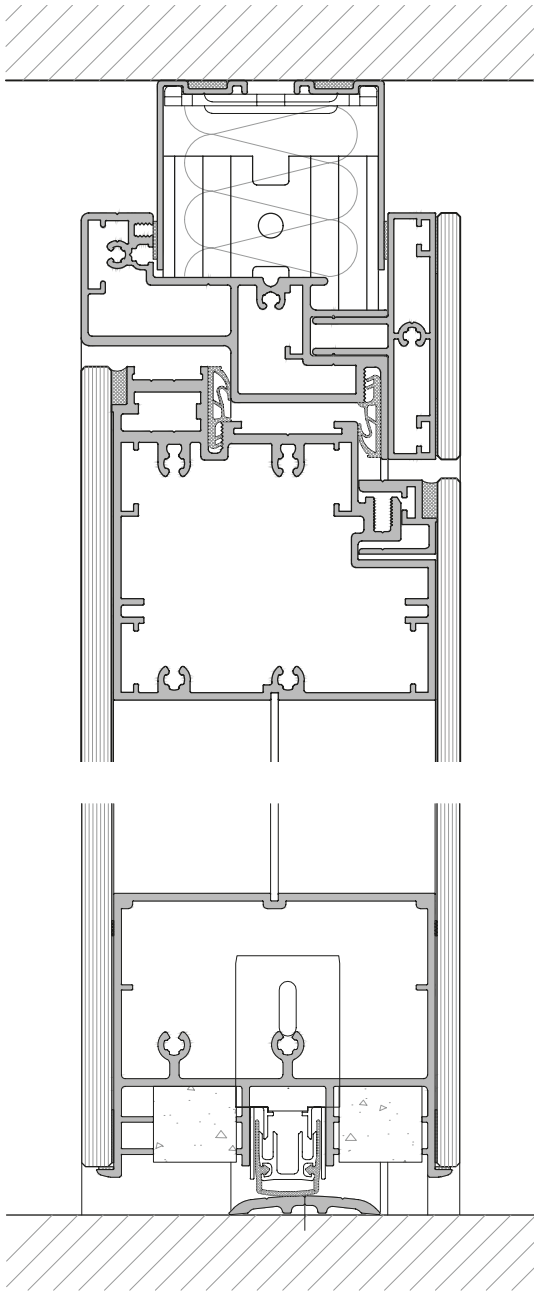


Flush glazing modular grid joint with blinds

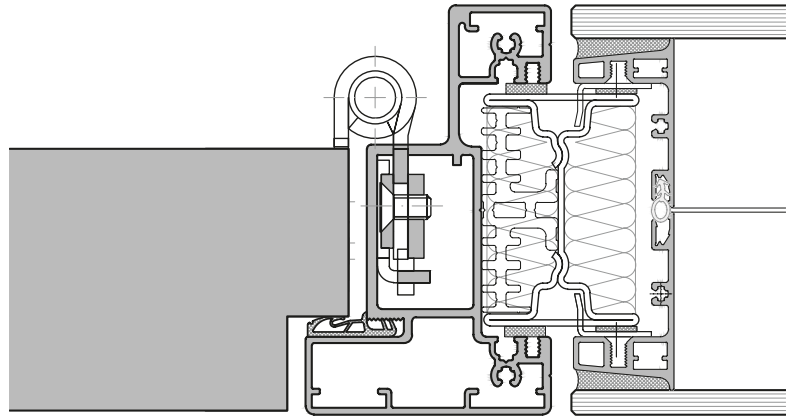


Floor connection acoustic absorber element

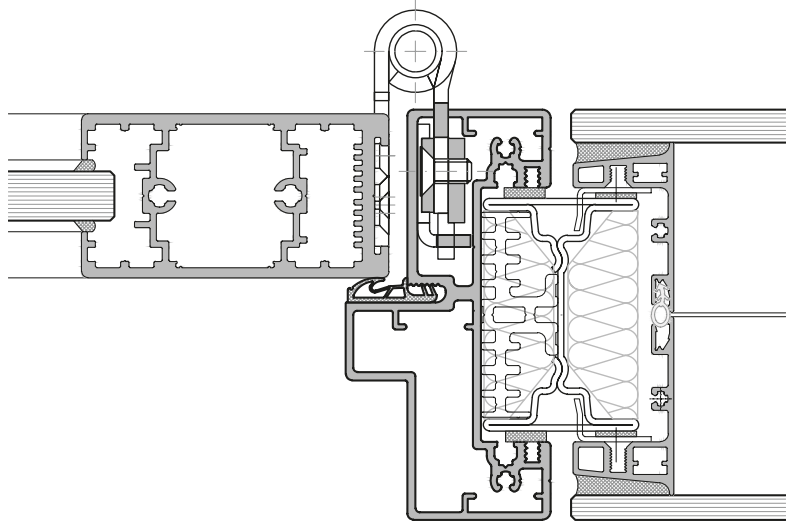




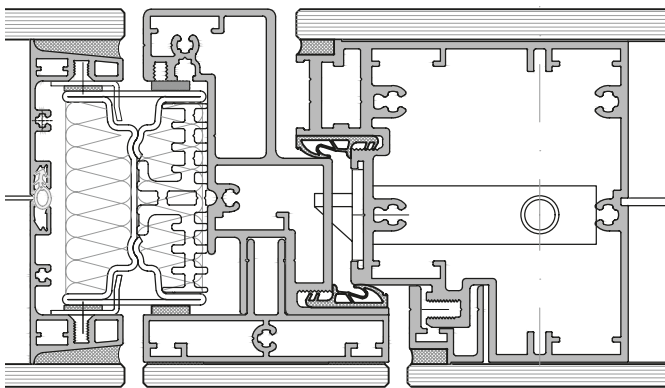
Flush bonded door toughened safety glass / acoustic laminated glass



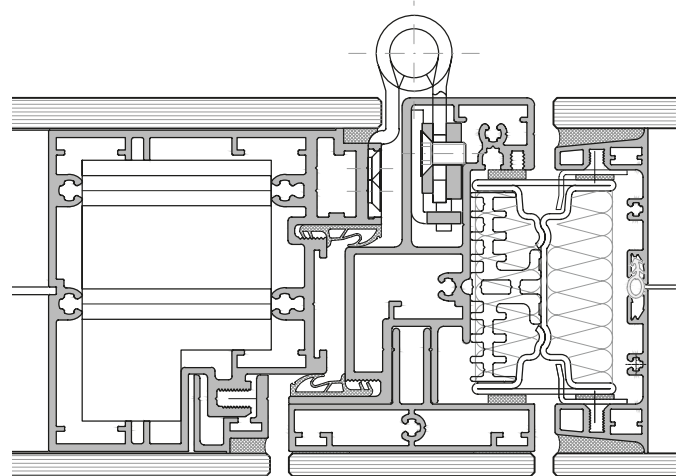
Solid door 64 mm



Flush bonded door toughened safety glass



Flush bonded door 100 mm, toughened safety glass/ acoustic laminated glass



<b>Partition wall</b>	
<b>Design</b>	Modular and flexible partition wall system with panel design for walls and patented mullion structure. Panels and glazing elements are directly inserted into the mullion to form a structurally stable construction unit. The system is completed by high-quality aluminium door frames and door leaf options. The seamless glazed aesthetic of the partition wall is maintained with flush-bonded doors in both 64 mm and 100 mm thickness. Full compatibility with System 2000 is ensured by the same subconstruction.
<b>Wall thickness</b>	Standard version: 100, 125 mm
<b>Grid</b>	Dimensions as selected and according to structural strength approvals, preferred grid sizes: 1000, 1250, 1350, 1500 mm
<b>Heights</b>	Flexible construction height, for heights of 3,5 m and above or for large width modules, a 125 mm wall thickness is recommended
<b>Substructure</b>	Mullion, powder-coated RAL 7016 matt, with suspension system for accessory elements integrated as standard
<b>Connecting section</b>	Aluminium or steel sections, 20 mm set back from wall face
<b>Deflection</b>	Solid wall: +/- 15 mm, glass wall +/- 10 mm, telescopic connection possible for increased deflection
<b>Skirting detail</b>	50 mm and 80 mm standard heights, intermediate dimensions possible
<b>Ceiling detail</b>	35 mm standard, other dimensions and telescopic connections are possible
<b>Finishes</b>	<ul style="list-style-type: none"> <li>- Continuous glass front with front flush bonding in light grey (black and white upon request)</li> <li>- Standard profiles: anodized aluminium E6EV1, steel RAL 9016, 7016</li> <li>- Melamine coated chipboards, white similar to RAL 9016, light grey similar to RAL 7035</li> <li>- Veneered, lacquered or fabric-upholstered boards</li> <li>- Powder-coated or fabric-upholstered metal panels</li> </ul>
<b>Glazing</b>	<ul style="list-style-type: none"> <li>- Flush-bonded glazing, 25 mm vertical aluminium frame and 35 mm horizontal aluminium frame.</li> </ul> Available as fully-glazed, balustrade or clerestory versions.
<b>Installation</b>	<ul style="list-style-type: none"> <li>- Vertical and horizontal cabling facility in the wall system</li> <li>- Switches, sockets and control elements can be integrated into the solid walls / door side panels</li> </ul>
<b>Accessories</b>	
<b>Acoustic absorbers</b>	Flush-fitted, high-absorption and sound-insulating acoustics absorbers available in metal or wood
<b>Accessory elements</b>	<ul style="list-style-type: none"> <li>- Vertical accessory elements integrated as standard in the standard version</li> <li>- Flush-mounted, horizontal accessory rail can be integrated into the wall panels</li> </ul>
<b>Blinds</b>	Electrical and mechanical blinds can be integrated
<b>Climate acoustic elements</b>	Strähle ÜS 60 air-flow element available for integration into door side panel or high level panels
<b>Door elements</b>	
<b>Door frames</b>	Aluminium door frames with high-quality 3D hinges are available for receiving a variety of door options
<b>Door leaves</b>	Solid door: 41, 64, 88 and 100 mm Aluminium framed door: 40, 64 and 100 mm Flush bonded door: 100 mm Fully-glazed door: 10 mm
<b>Sliding Doors</b>	Floor and ceiling-guided options available

Wall element	Construction / Description	Wall element Sound insulation in $R_{w,P}$		Fire prevention	
		100 mm	125 mm	100 mm	125 mm
<b>Solid wall</b>	19 mm melamine / gap 60 mm / 19 mm melamine	45 dB	49 dB	45 dB	49 dB
	Add.1x plasterboard panel for enhanced acoustic performance	49 dB	52 dB	49 dB	52 dB
	Add. 2x plasterboard panel for enhanced acoustic performance	53 dB*	55 dB*	53 dB	55 dB
	Non-flammable material metal panel 2x plasterboard panels	51 dB	56 dB	-	-
	Special wall as dual mullion wall, cons. depth 160 mm		57 dB (max.)	-	-
<b>Flush bonded glazing</b>	Toughened safety glass / Float 5 + 6 mm	42 dB	44 dB	44 dB zus. F30 Glas	48 dB zus. F30 Glas
	Toughened safety glass / Float 6 + 8 mm	47 dB	47 dB	47 dB* zus. F30 Glas	49 dB zus. F30 Glas
	Toughened safety glass / Float 6 + Acoustic laminated glass 8 mm	49 dB*	51 dB	46 dB zus. F30 Glas	51 dB zus. F30 Glas
	Toughened safety glass / Float 8 + Acoustic laminated glass 8 mm	50 dB*	52 dB	48 dB* zus. F30 Glas	52 dB* zus. F30 Glas
	Acoustic laminated glass 8 mm + Acoustic laminated glass 8 mm	51 dB*	53 dB	49 dB* zus. F30 Glas	53 dB* zus. F30 Glas

\* with seal + 1 dB possible

Door element	Construction / Description	Door element Sound insulation in $R_{w,P}$		2-leaved version
		100 mm wall	125 mm wall	
<b>Solid door</b>	Solid door leaf 41 mm	32 dB	32 dB	
	Sound-insulating door leaf 41 mm	38 dB	38 dB	
	Solid door leaf 64 mm	38 dB	38 dB	x
	Sound-insulating solid door leaf 64 mm in double-rebated frame	43 dB	43 dB	
	Sound-insulating solid door leaf 88 mm, concealed frame with double rebate	45 dB	45 dB	x
	Sound-insulating solid door leaf 100 mm in double-rebated frame	42/47 dB	42/47 dB	
<b>Fully glazed door</b>	Fully-glazed door 10 mm	32 dB	32 dB	
<b>Aluminium framed door</b>	Aluminium framed door 40 mm; 8 mm toughened safety glass, 8 mm acoustic laminated glass, 12 mm acoustic laminated glass	32, 34, 37 dB	32, 34, 37 dB	x
	Aluminium framed door 64 mm - 38 mm double glazed	37 dB	37 dB	x
	Aluminium framed door 100 mm 6 / 8 mm toughened safety glass	42 dB	42 dB	x
	Aluminium framed door 100 mm 6 mm toughened safety glass, 8 mm acoustic laminated glass	44 dB	44 dB	
	Aluminium framed door 100 mm 8 mm acoustic laminated glass, 8 mm acoustic laminated glass	46 db	46 dB	
<b>Structural Glazing door</b>	Flushed bonded door 100 mm 6 / 8 mm toughened safety glass	42 dB	42 dB	x
<b>Sliding door</b>	ST40 Sound insulation sliding door	34 dB	34 dB	
<b>Fireproof door</b>	Solid door leaf certified based on German standards (Information available upon request)	37 dB	-	
	EI30 (CE standard) Flushed bonded door 100 mm <sup>1</sup> glazing 6 mm toughened safety glass, EI30 BS glass, 8 mm toughened safety glass	43 dB	-	x
	EI30 (CE standard) Flushed bonded door 100 mm <sup>1</sup> glazing 6 mm toughened safety glass, EI30 BS glass, 8 mm acoustic laminated glass	47 dB	-	x

Adjustment for calculation of arithmetic value of  $R_{w,r}$  according to DIN 4109 is -2 dB for partition wall, -5 dB for door elements

The amount to be deducted for door elements of height 2.5 to 3.0 m is -2 dB, 2 leaved version -2 dB

<sup>1</sup> with seal +1 dB possible

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