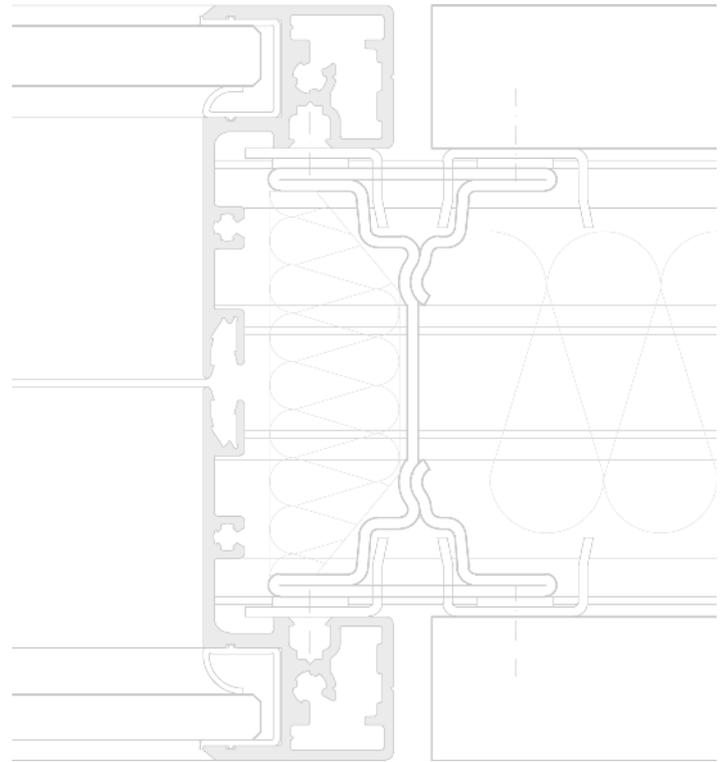


Partition System 2000



System 2000

Design with mullion
100 mm wall thickness
125 mm wall thickness

The basis for this highly flexible partition wall system with modular panel design for walls is the patented Strähle mullion with integrated suspension wall for panels, glazing and accessory systems.

This delivers substantial advantages in that the solid, glazed and acoustic cladding panels are extremely easy to insert, relocate and replace allowing almost limitless design possibilities. The system is further extended by a wide range of door frames and door solutions.

Our recommendation to achieve exceptionally high performance sound insulation is to use the 125 mm thick wall option with the integration of acoustic absorbers to both sides. In addition to enhanced acoustic performance, this option delivers increased structural stability which is particularly beneficial for exceptionally high rooms.

Design

Design with mullion

Options

Solid wall, flush framed glazing, central glazing

Element types

Solid wall, balustrade, toplight, fully-glazed

Surfaces

Solid wall (melamine, veneered, HPL or lacquered)

Glass wall (toughened safety glass / acoustic laminated glass and insulating glass)

Anodized / powder-coated aluminium glass frame

Wall thickness

100 / 125 mm, special version 160 mm

Visible width

Solid wall: 5 mm joint

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

Sound insulation

Solid wall: up to Rwp 53 dB (special version Rwp 57 dB)

Glass wall: up to Rwp 51 dB

Fire prevention

Solid wall: various - further details upon request

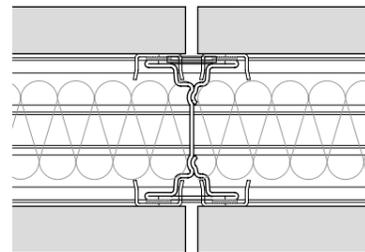
Glass wall: various - further details upon request

Accessories

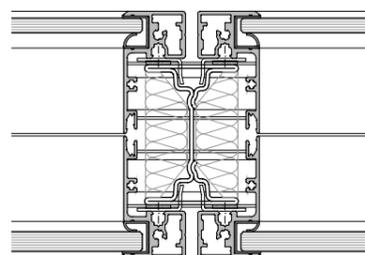
Acoustic absorbers, blinds, climate control elements, accessory systems



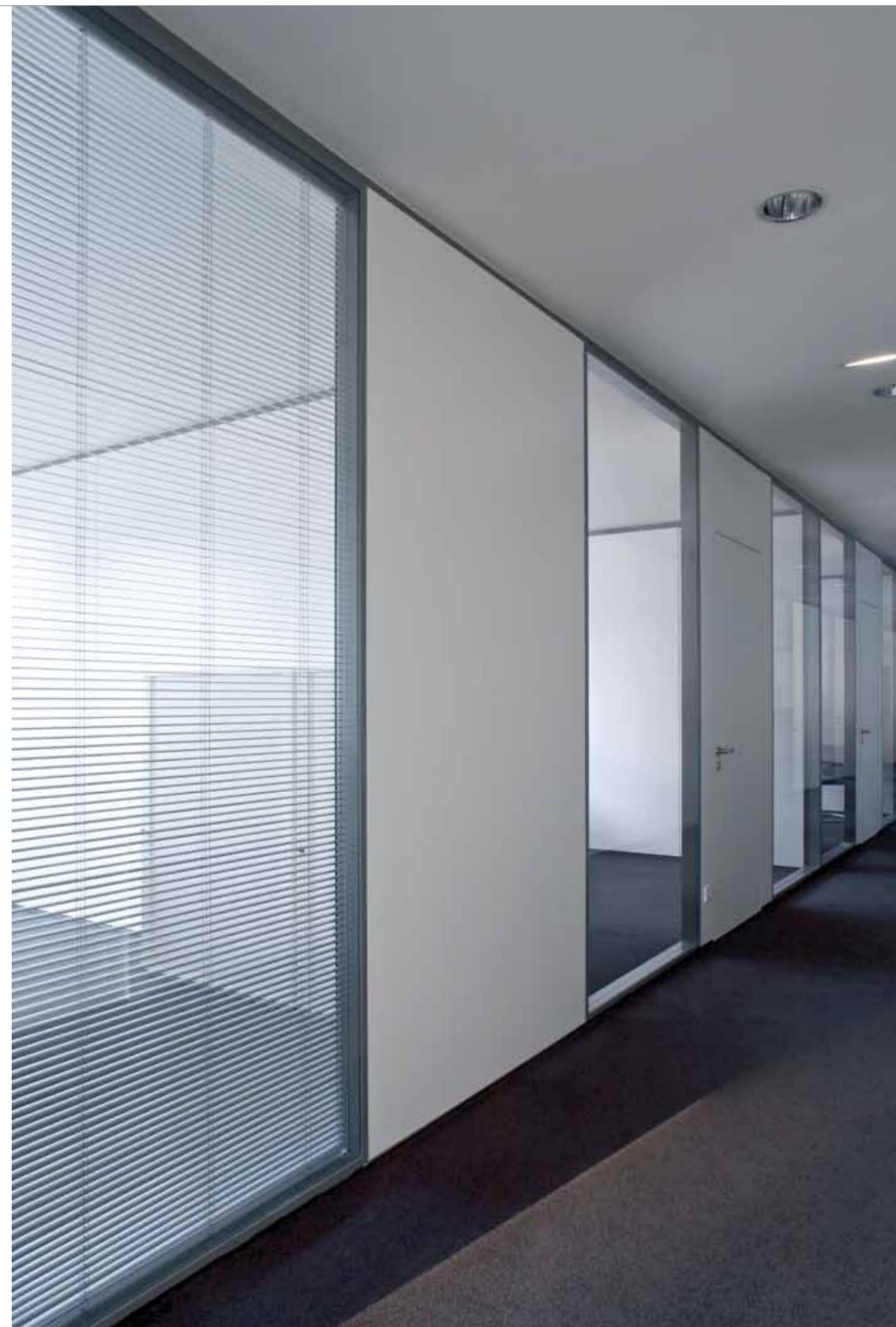
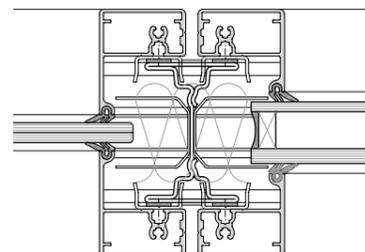
Solid wall



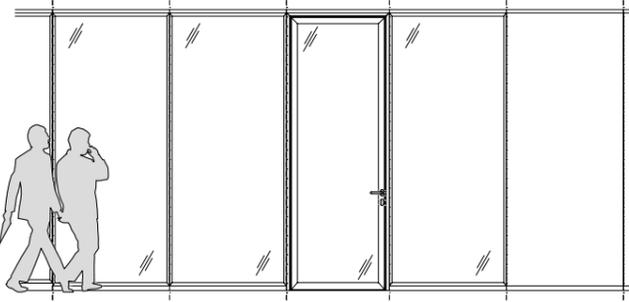
Flush glazing



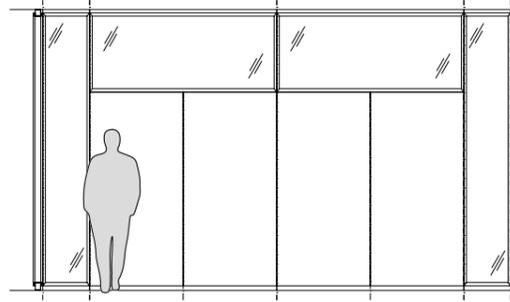
Central glazing



Corridor wall



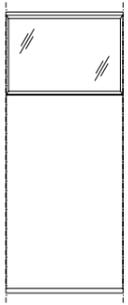
Cross wall



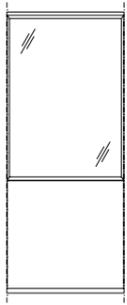
Glass element



Clerestory element



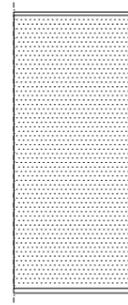
Balustrade element



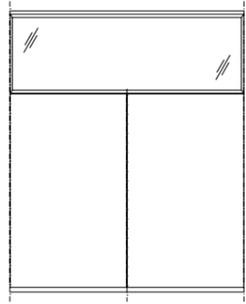
Solid panel element



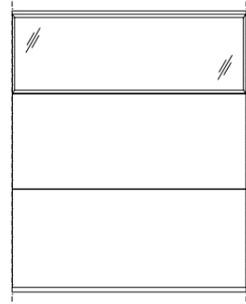
Solid panel element absorber



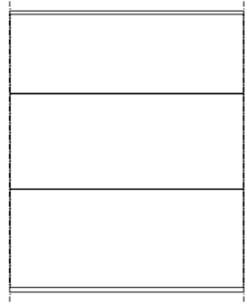
Glass element 2 modules



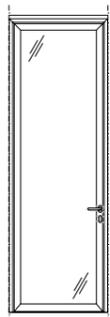
Clerestory element horizontal division



Solid panel element horizontal division



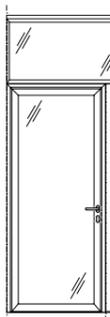
Aluminium framed door, ceiling-height



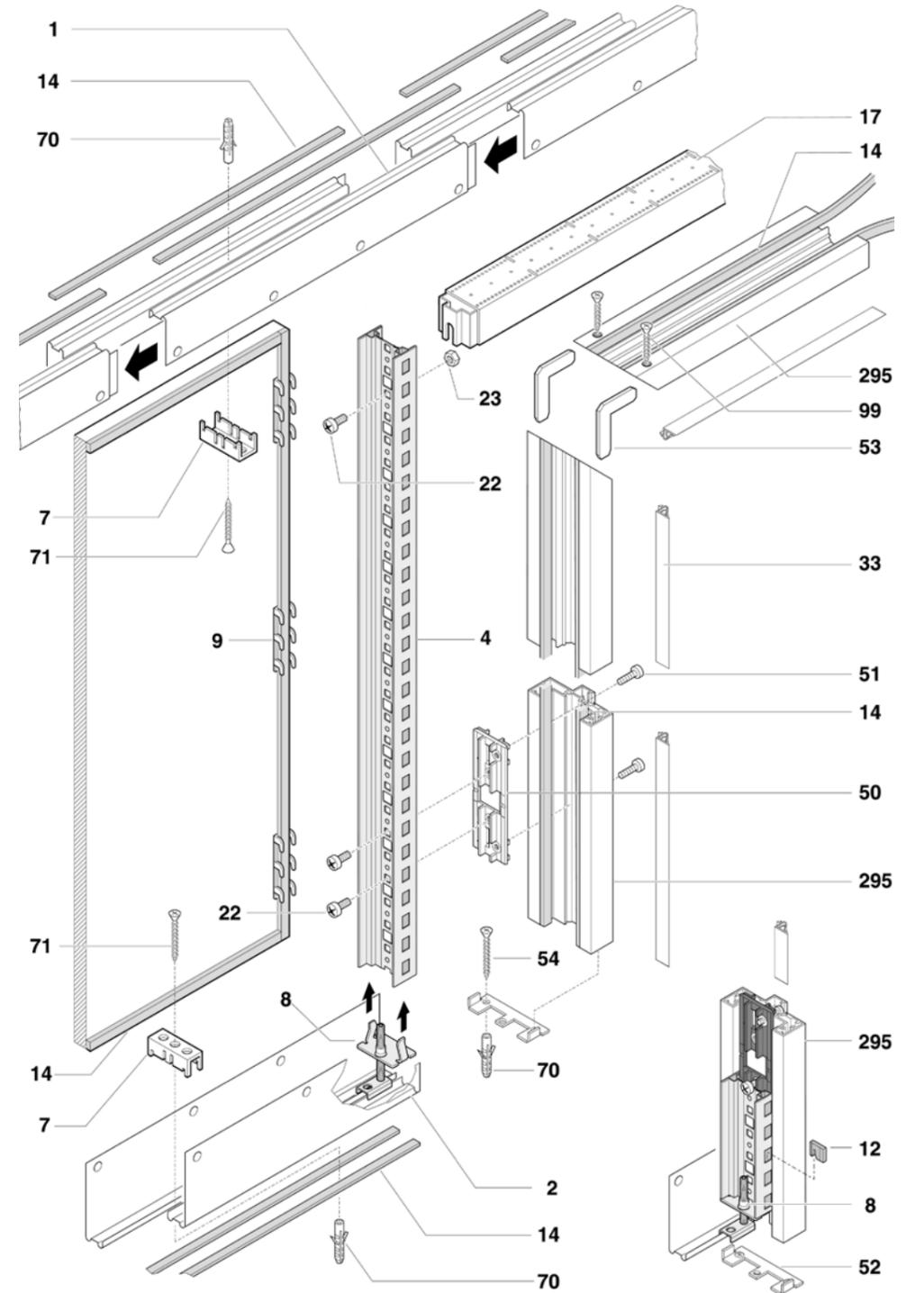
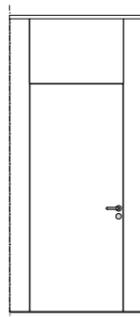
Aluminium framed door, with clerestory



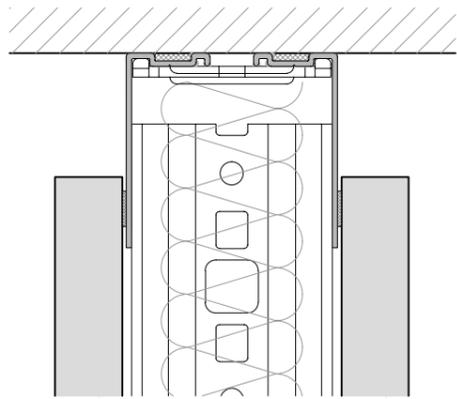
Aluminium framed door, with clerestory and side panel



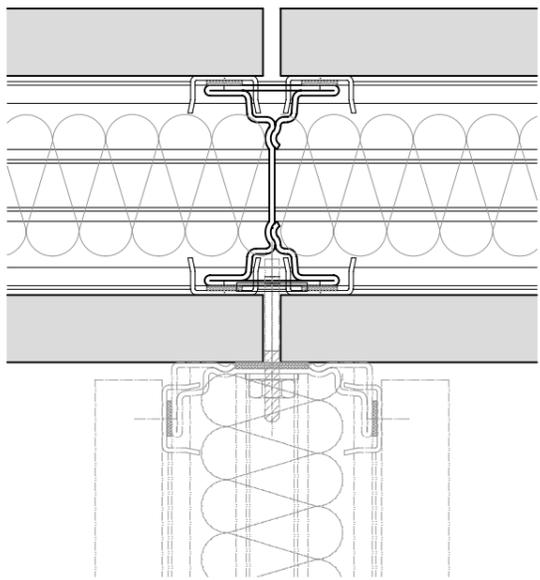
Solid door within solid side and over panel



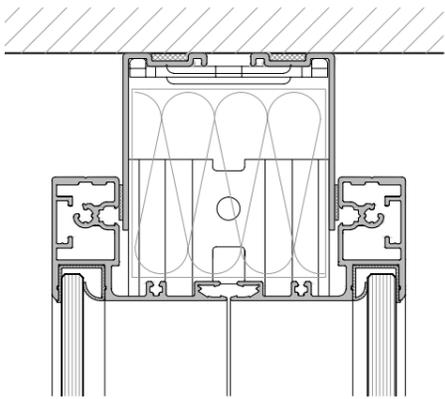
1 Ceiling L-profile	12 Spacer	33 Door frame gasket	70 Plug
2 Floor L-profile	14 Acoustic insulation strip	50 Mounting plate	71 Anchoring screw
4 Steel mullion, RAL 7016	17 Transom	51 Screw	99 Self-tapping screw
7 U-bracket	19 Transom bracket	52 Door frame base plate	295 Aluminium door frame
8 Adjustable foot	22 Bolt	53 Door frame corner bracket	
9 Suspension hook	23 Nut	54 Anchoring screw	



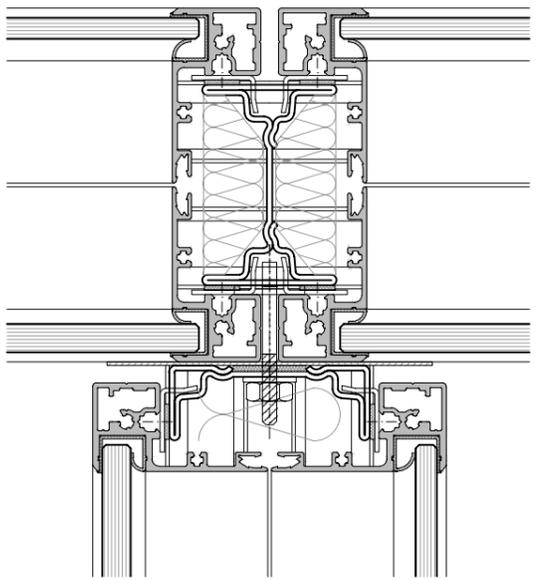
Solid wall ceiling connection



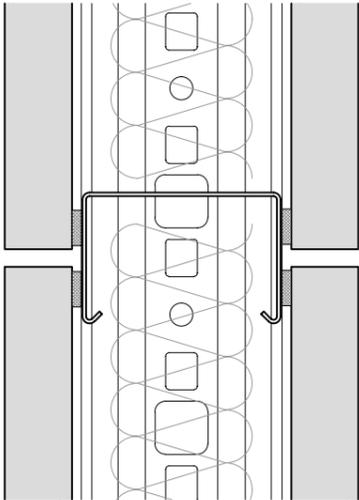
Solid wall T-junction



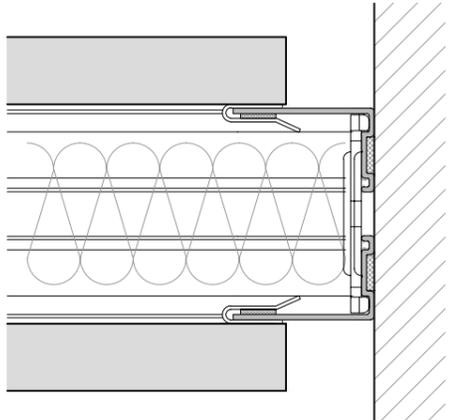
Flush glazing vertical section



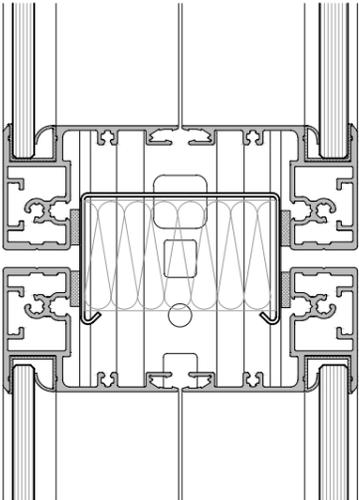
Flush glazing T-junction



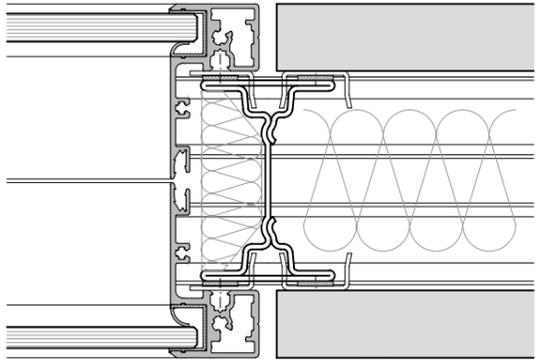
Solid wall horizontal joint



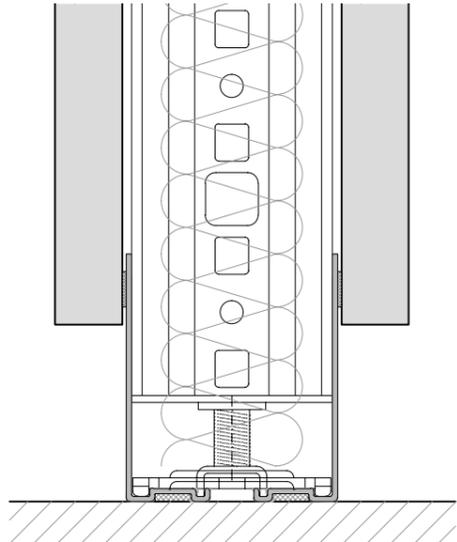
Solid wall abutment connection



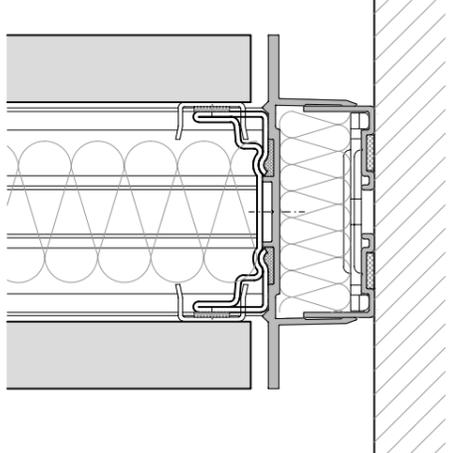
Flush glazing horizontal joint



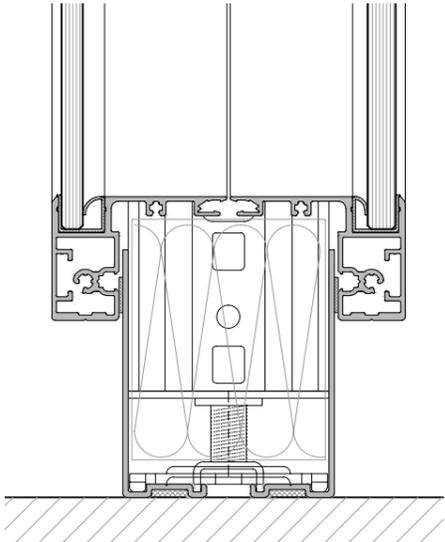
Flush glazed to solid straight connection



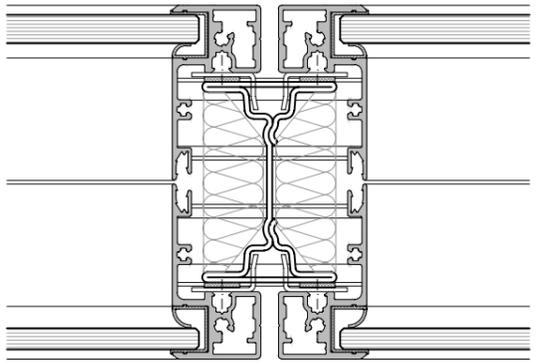
Solid wall floor connection



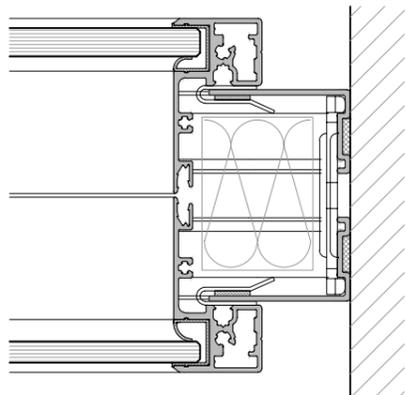
Solid wall abutment connection with lateral deflection



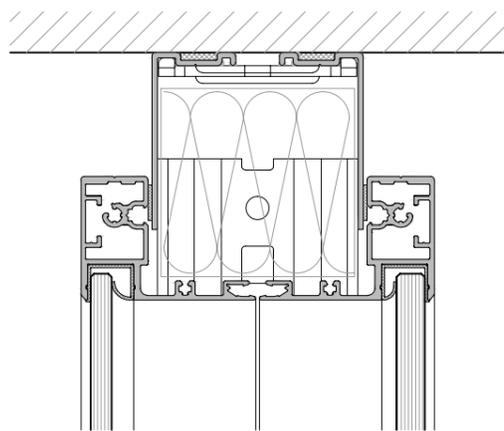
Flush glazing floor connection



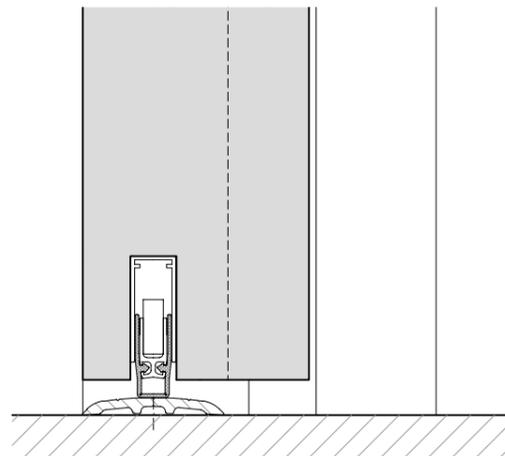
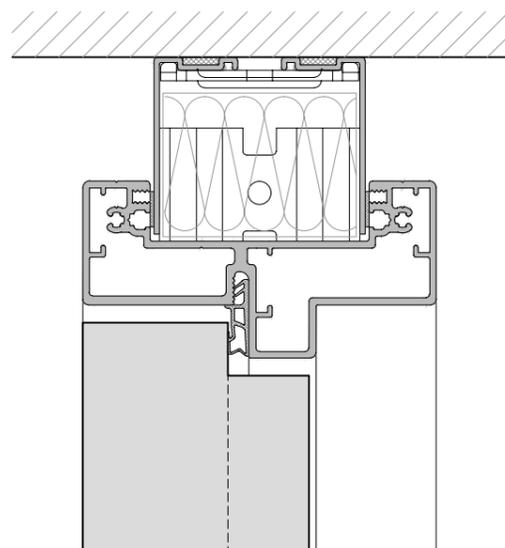
Flush glazed to flush glazed straight connection



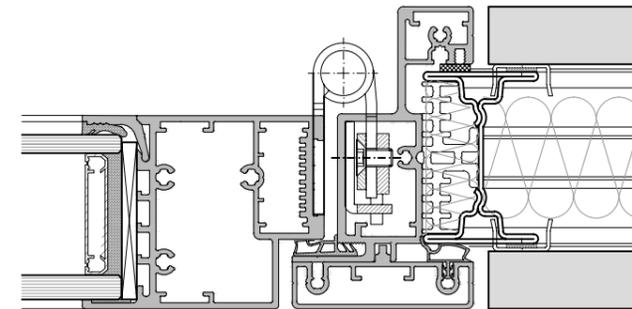
Flush glazed wall connection



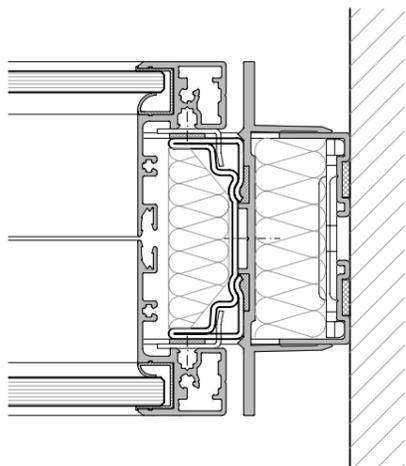
Flush glazed ceiling connection



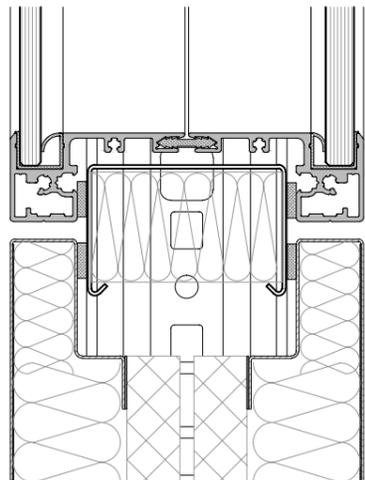
Solid door 64 mm



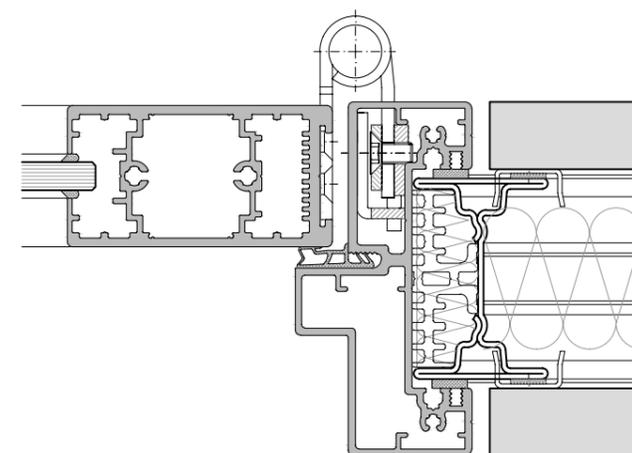
Aluminium framed double glazed 64 mm door



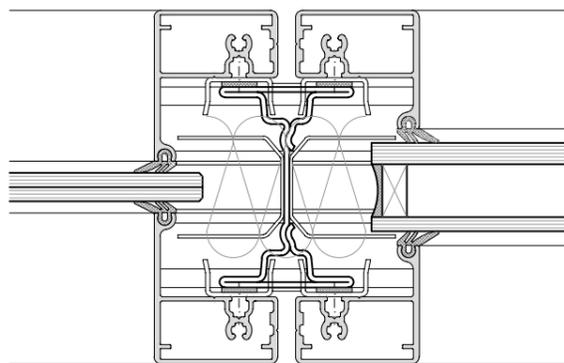
Flush glazed wall abutment connection with lateral deflection



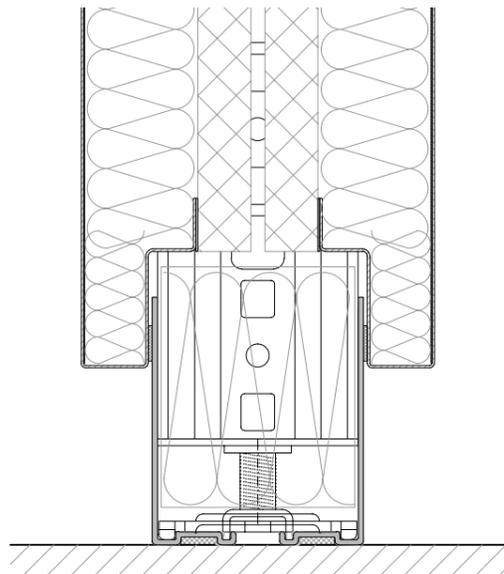
Flush glazed acoustic absorber for horizontal joint



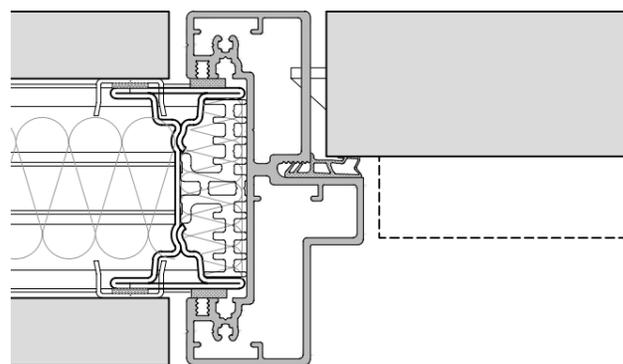
Aluminium framed single glazed 40 mm door



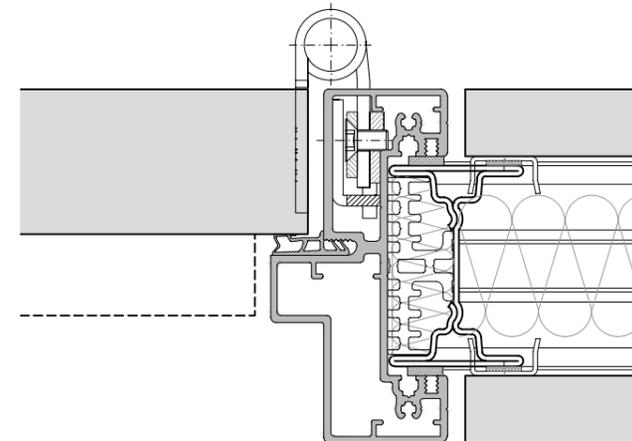
Central glazed modular grid joint



Floor connection acoustic absorber element



Solid door 41 mm



Partition wall	
Design	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.
Wall thickness	Standard version: 100, 125 mm
Grid	Dimensions as selected and according to structural strength approvals, preferred grid sizes: 1000, 1250, 1350, 1500 mm
Heights	Flexible construction height; for heights of 4 m and above or for large width modules, a 125 mm wall thickness is recommended
Substructure	Mullion, powder-coated RAL 7016 matt, with suspension system for accessory elements integrated as standard
Connecting sections	Aluminium or steel sections, 20 mm set back from wall face
Deflection	Solid wall: +20/- 20 mm, glass wall +10/- 5 mm, telescopic connection possible for increased deflection
Skirting detail	50 mm and 80 mm standard heights, intermediate dimensions possible
Ceiling detail	25 mm suspended ceiling, 35 mm for structural ceilings, other dimensions and telescopic connections are possible
Finishes	- Standard profiles: anodized aluminium E6EV1, steel RAL 9016, 7016 - Melamine coated chipboards, white similar to RAL 9016, light grey similar to RAL 7035 - Veneered, lacquered or fabric-upholstered boards - Powder-coated or fabric-upholstered metal panels
Glazing	Flush glazed or central glazed made from toughened safety glass and acoustic laminated glass Available as fully-glazed, balustrade or clerestory versions.
Installation	- Vertical and horizontal cabling facility in the wall system - Switches, sockets and control elements can be integrated into the solid walls / door side panels
Accessories	
Acoustic absorbers	Flush-fitted, high-absorption and sound-insulating acoustics absorbers available in metal or wood
Accessory elements	- Vertical accessory elements integrated as standard in the standard version - Flush-mounted, horizontal accessory rail can be integrated into the wall panels
Blinds	Electrical and mechanical blinds can be integrated
Climate control elements	Strähle ÜS 60 air-flow element available for integration into door side panel or high level panels
Door elements	
Door frames	Aluminium door frames with high-quality 3D hinges are available for receiving a variety of door options
Door leaves	Solid doors: 41, 64, 88 and 100 mm door leaves Aluminium framed door: 40 and 64 mm Flush bonded door: 64 and 100 mm Fully-glazed door: 10 mm toughened safety glass
Sliding doors	Floor and ceiling-guided options available, framed glass sound-insulating sliding doors

Wall element	Construction / Description	Wall element Sound insulation in $R_{w,p}$		Fire prevention
		100 mm wall	125 mm wall	
Solid wall	19 mm melamine / gap 60 mm / 19 mm melamine	44 dB	45 dB	44 dB
	Add. 1x plasterboard panel for enhanced acoustic performance	49 dB	49 dB	49 dB
	Add. 2x plasterboard panel for enhanced acoustic performance	53 dB	53 dB	53 dB
	Non-flammable material metal panel 2x plasterboard panels	51 dB	51 dB	-
	Special wall as dual mullion wall, cons. depth 160 mm		57 dB (max.)	-
Flush glazing	Toughened safety glass/Float 6 + 6 mm	41 dB	41 dB	44 dB
	Toughened safety glass/Float 6 + 8 mm	47 dB	47 dB	47 dB
	Toughened safety glass/Float 6 + Acoustic laminated glass 8 mm	49 dB	49 dB	47 dB
	Toughened safety glass/Float 8 + Acoustic laminated glass 8 mm	50 dB	50 dB	49 dB
	Acoustic laminated glass 8 mm + Acoustic laminated glass 8 mm	51 dB	51 dB	50 dB
Central glazing	Toughened safety glass 8 mm	32 dB ¹	32 dB ¹	-
	Acoustic laminated glass 8 mm	35 dB ¹	35 dB ¹	-
	Acoustic laminated glass 10 mm	36 dB ¹	36 dB ¹	-
	Acoustic laminated glass 16 mm	41 dB	-	-
	Glazing 25 mm	43 dB	only with 32 mm special glass	43 dB

Door element	Construction / Description	Door element Sound insulation in $R_{w,p}$		2-leaved version
		100 mm wall	125 mm wall	
	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	42 dB	42 dB	
	Sound-insulating solid door leaf 88 mm, concealed frame with double rebate	45 dB	-	x
	Sound-insulating solid door leaf 100 mm in double-rebated frame	47 dB	-	
	Fully-glazed door 10 mm	32 dB	32 dB	
	Aluminium framed door 40 mm; 8mm toughened safety glass, 8mm 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 64 mm - 56 mm triple glazed	38 dB	38 dB	x
	Aluminium framed door 64 mm; 56 mm triple glazed: 12 acoustic laminated glass, cavity 22, 12 acoustic laminated glass double rebated frame	42 dB	42 dB	
	Flushed bonded door 64 mm 6 / 8 mm toughened safety glass	37 dB	37 dB	
	Flushed bonded door 100 mm 6 / 8 mm toughened safety glass	42 dB	42 dB	x
	Flushed bonded door 100 mm lacquered, opaque version, 6 mm toughened safety glass, 60 mm; insulating wool, 8 mm acoustic laminated glass	47 dB	-	x
	Framed glass sound-insulating sliding door	34 dB	34 dB	
Fireproof door	Solid door leaf certified based on german standards (Information available upon request)	37 dB	-	
	Flushed bonded door leaf proved based on german standards (Information available upon request)	37 dB	-	
	EI30 (CE standard) Flushed bonded door 100 mm ² glazing 6 mm toughened safety glass, EI30 BS glass, 8 mm toughened safety glass	44 dB	-	x
	EI30 (CE standard) Flushed bonded door 100 mm ² glazing 6 toughened safety glass, EI30 BS glass, 8 acoustic laminated glass	47 dB	-	

Adjustment for calculation of arithmetic value of R_w, R according to DIN 4109 is -2dB ¹ $R_{w,p}$ calculated from glass value
The amount to be deducted for door elements of height 2.5 to 3.0 m is -2dB ²Approval from 2nd quarter of 2016

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