



Architectural Systems Selection Guide

Six glazing systems, consolidated. Materials, profiles, hardware, glass and handles at a glance, for specifiers.

STEEL

STEEL

Framed partitions and doors. 8 opening types. Widest glass range. Panels up to 144" high.

KOMPAS

ALUMINUM

Framed partitions, single or double glazed. Prefabricated framed and ultra slim doors.

CGF

ALUMINUM

Thin framed partitions, swing and sliding doors. 3/8" glass.

CGS

ALUMINUM

Frameless, U-channel captured. Swing, sliding, multisiding, dividers.

SGL-1116

ALUMINUM

Bottom-rolling frameless sliding glass wall. Interior and exterior. Up to 330 lbs per leaf.

SGF-1116

ALUMINUM

Same 1116 sliding platform with a framed panel edge. Interior only.

HOW TO USE THIS GUIDE

Pages 2 and 3 compare the six systems side by side: construction, finishes, application, configurations and dimensional limits. Page 4 lists every glass option by system and thickness, with unit weights. Pages 5 and 6 list every handle, pull and lock. Pages 6 to 8 list the operating hardware, seals and partition build-up. Page 9 gives profile dimensions per system. Page 10 gives limits by configuration and a glazed-area weight check. Page 11 gives standard door sizes and the document basis.

PERFORMANCE DATA

Crystalia has not performed acoustic (STC), thermal (U-factor), fire-resistance, wind-load or air and water infiltration testing on these systems. No rated values are available and none should be assumed. Where a project requires a tested value, raise it with Crystalia engineering at design development.

FINISHES

All standard finishes are powder coat. Steel profiles carry a textured black matte powder coat; aluminum profiles carry a smooth black matte powder coat. Satin anodized aluminum is available on KOMPAS, CGS and SGL-1116. Steel can be powder coated in any RAL color on request.

UNITS AND LEGEND

All dimensions in inches unless noted; metric equivalents in brackets where published. Weights in pounds. "." means the option is not available in that system. "On request" means the value is set per project and should be requested from Crystalia engineering.



System Selection Matrix

PART 1 OF 2 · CONSTRUCTION, APPLICATION, CONFIGURATIONS

SYSTEM	STEEL	KOMPAS	CGF	CGS	SGL-1116	SGF-1116
CONSTRUCTION						
System type	Framed steel partition and door system	Framed aluminum partition and door system, single or double glazed	Thin framed aluminum partition and door system	Frameless partition and door system, U-channel captured	Bottom-rolling frameless sliding glass wall	Bottom-rolling framed sliding glass wall
Frame material	Steel hollow profile	Extruded aluminum	Extruded aluminum	Extruded aluminum U-channel	Extruded aluminum	Extruded aluminum
Glass retention	Glass captured in frame profile with gasket	Glass captured in profile with glazing bead and gasket	U-channel plus tape-applied perimeter frame and mullion	U-channel with two gaskets each side	Glass-mounted bottom profile carrying the rollers; panel weight on the bottom guide, top guide for alignment	Glass-mounted bottom profile plus wide perimeter frame; panel weight on the bottom guide, top guide for alignment
Standard finishes	Black matte powder coat, textured. Any RAL color on request	Black matte powder coat, smooth. Satin anodized	Black matte powder coat, smooth	Black matte powder coat, smooth. Satin anodized. Hardware also in satin stainless steel	Black matte powder coat, smooth. Satin anodized	Black matte powder coat, smooth
Application	Interior	Interior	Interior	Interior	Interior and exterior (terraces, pergolas); recessed guides need drainage	Interior only
Profile stock lengths	118" / 157"	118" / 236"	118" / 157" / 120"	118" / 157" / 236"	118" / 236" / 120"	118"
CONFIGURATIONS AVAILABLE						
Swing	Yes	Yes, framed and frameless	Yes	Yes	-	-
Pivot	Yes	-	-	-	-	-
Sliding	Yes	Yes	Yes, CGF and CGF-2	Yes	Yes, one-way and two-way	Yes, one-way and two-way
Multisliding	Yes, up to 4 panels to one side	-	-	Yes	Yes, up to 6 panels to one side	Yes, up to 6 panels to one side
Pocket	Yes, single or double	-	-	-	Yes	Yes
Bi-fold / folding	Yes, top-hung, 2 to 6 panels	-	-	-	-	-
Fixed divider / partition	Yes	Yes, incl. free-standing	Yes, incl. free-standing	Yes, incl. free-standing	Fixed panels	Fixed panels
Prefabricated door	Yes, 36" × 80" leaf	Yes, framed and ultra slim	-	-	-	-
Transom	Yes	Yes	Yes	Yes	-	-
Corner and T junctions	Yes, incl. arches and non-standard openings	90° to 180° single, 90° to 170° double; T-junction	90°, 135°	90°, 135°, T-joint, abutment	Pocket only	Pocket only



System Selection Matrix

PART 2 OF 2 · SIGHTLINES, PROFILES AND PUBLISHED LIMITS

SYSTEM	STEEL	KOMPAS	CGF	CGS	SGL-1116	SGF-1116
SIGHTLINE AND PROFILE SECTION						
Face width at glass joint Sightline seen in elevation	1-9/16" typical; 2-5/16" on 1/2" and 9/16" glass	1-1/2", single and double glazed	1-1/8"	1" or 1-1/2" (U-channel leg)	On request	On request
Profile depth	13/16" × 1-9/16" hollow tube (prefabricated leaf)	2-9/16" single glazed; 2-5/8" double glazed; 3-3/16" / 3-7/8" incl. cover caps	1-3/16" U-channel; 1-9/16" deep U-channel	1" channel depth; 1-3/16" and 1-9/16" deep options	On request	On request
Top track section	1-9/16" × 1-13/16" Track XL; 1-15/16" × 2-3/8" wall rail	Sliding: 2-5/16" × 2-3/8" Track A; 2-5/16" × 2-3/4" Track C, shared with CGS	2-5/16" × 2-3/8" Track A; 3" × 2-3/8" Track B	2-5/16" × 2-3/8" Track A; 2-5/16" × 2-3/4" Track C; 4-3/16" × 2-3/4" Track H2	Top guide profile SGLT1 plus extension SGLTE2	Top guide profile SGLT1 plus extension SGLTE2
DOOR AND PANEL LIMITS						
Max door width	Swing 43" (3 hinges) or 49-3/16" (4 hinges); pivot 39-3/8" (XL patch 49-3/16"); sliding, pocket, multisiding 49-3/16"; bi-fold 20-1/2" to 33-7/16" by panel count, see p.10	Standard leaves, see p.10	39-3/8" swing; 49-3/16" sliding	39-3/8" swing; 49-3/16" sliding and multisiding	49-3/16" premium rollers; 22-7/16" compact rollers	49-3/16" premium rollers; 22-7/16" compact rollers
Min door width	Swing and bi-fold 12"; pivot 29-1/2" (XL patch 39-7/16"); sliding, pocket, multisiding 25-1/4" (soft-close 30-1/2")	Standard leaves, see p.10	29-1/2" swing; 25-9/16" sliding anti-shock, 32-1/16" soft-close	29-1/2" swing; 25-9/16" sliding anti-shock, 32-1/16" soft-close; 26-7/16" multisiding	22-1/2" premium rollers; 13-1/2" compact rollers	22-1/2" premium rollers; 13-1/2" compact rollers
Max fixed panel width	49-3/16"	On request	49-3/16"	49-3/16"	49-3/16"	49-3/16"
Min fixed panel width	12"	5-1/2" min glass cell, 7" recommended	4" sidelite, 6" with transom	4" sidelite, 6" with transom	22-1/2"	22-1/2"
Max height	144" swing, pivot, sliding, pocket; multisiding 144" at 1/4" glass; bi-fold 120" at 1/4" glass	Frameless swing door 108" at 3/8", 120" at 1/2"; partitions to 157" with reinforcement, see p.8	120" partition and swing; 108" sliding	108" at 3/8" glass; 120" at 1/2" glass	108" at 3/8" glass; 120" at 1/2" glass	108" at 3/8" glass; 120" at 1/2" glass
Max door or panel weight	308 lbs [140 kg] swing, sliding, pocket, multisiding; 220 lbs [100 kg] pivot; bi-fold 122 lbs [55 kg] per panel (2 to 4 panels), 88 lbs [40 kg] (5 to 6)	220 lbs [100 kg] frameless swing door; 242 lbs [110 kg] sliding	220 lbs [100 kg] swing; 242 lbs [110 kg] sliding	220 lbs [100 kg] swing; 242 lbs [110 kg] sliding and multisiding	330 lbs [150 kg] premium rollers; 220 lbs [100 kg] compact rollers	330 lbs [150 kg] premium rollers; 220 lbs [100 kg] compact rollers



GLASS	STEEL	KOMPAS	CGF	CGS	SGL-1116	SGF-1116	Unit weight
MONOLITHIC TEMPERED							MAKE-UP
							LBS / SQ FT
Clear	3/16", 1/4", 3/8", 1/2"	1/4", 3/8", 1/2" (a)	3/8"	3/8", 1/2"	3/8", 1/2"	3/8", 1/2"	3/16" monolithic
Clear Acid (acid etched)	1/4", 3/8", 1/2"	1/4", 3/8"	3/8"	3/8", 1/2"	3/8", 1/2"	3/8", 1/2"	1/4" monolithic
Low Iron	1/4", 3/8", 1/2"	1/4", 3/8", 1/2" (a)	3/8"	3/8", 1/2"	3/8", 1/2"	3/8", 1/2"	3/8" monolithic
Low Iron Acid	1/4", 3/8", 1/2"	1/4", 3/8", 1/2" (a)	3/8"	3/8", 1/2"	3/8", 1/2"	3/8", 1/2"	7/16" laminated
Gray	1/4", 3/8", 1/2"	1/4", 3/8", 1/2" (a)	3/8"	3/8", 1/2"	3/8", 1/2"	3/8", 1/2"	1/2" monolithic
Bronze	1/4", 3/8", 1/2"	1/4", 3/8", 1/2" (a)	3/8"	3/8", 1/2"	3/8", 1/2"	3/8", 1/2"	9/16" laminated
LAMINATED TEMPERED							5/8" insulated unit
Clear Laminated	7/16", 9/16"	-	-	-	-	-	1" insulated unit
Clear Acid Laminated	7/16", 9/16"	-	-	-	-	-	1/4" aluminum composite panel
Low Iron Laminated	9/16"	-	-	-	-	-	
Low Iron Acid Laminated	9/16"	-	-	-	-	-	
Gray Laminated	7/16", 9/16"	-	-	-	-	-	
Bronze Laminated	7/16", 9/16"	-	-	-	-	-	
Colored Laminated	7/16", 9/16"	-	-	-	-	-	
INSULATED TEMPERED UNIT							
Clear IGU	5/8", 1"	5/8" (b)	-	-	-	-	
Clear Acid IGU	1"	-	-	-	-	-	
Low Iron IGU	1"	-	-	-	-	-	
Low Iron Acid IGU	1"	-	-	-	-	-	
Gray IGU	1"	-	-	-	-	-	
Bronze IGU	1"	-	-	-	-	-	
PATTERNED TEMPERED AND OPAQUE INFILL							
Reeded	1/4"	1/4"	-	-	-	-	
Thin Ribbed	1/4"	1/4"	-	-	-	-	
One-Way Mirror	1/4"	1/4"	-	-	-	-	
Steel sheet	3/16"	-	-	-	-	-	
Aluminum composite panel	-	1/4" black or satin	-	-	-	-	

Notes

(a) KOMPAS 1/2" glass. Frameless doors only, in every listed color except Clear Acid; 3/8" to 108" and 1/2" to 120" recommended maximum door height, 220 lbs door weight. Partitions and framed doors take 1/4" or 3/8".

(b) KOMPAS 5/8" insulated unit. Prefabricated framed doors only: 3/16" clear tempered over 3/16" clear tempered with a black or silver low-profile aluminum spacer not exceeding 3/8".

Edgework, prefabricated doors. 1/4" tempered is supplied with no polished edges; 3/8" tempered is supplied polished all around.

Handle compatibility. Ferrara, Torino, Ladder and Square pulls mount direct-to-glass on 3/8" to 9/16" glass on STEEL and 3/8" to 1/2" on the aluminum systems. Thinner glass on STEEL takes handles on a metal plate.



MODEL	SIZES AND SECTION	FINISHES	GLASS	STEEL	KOMPAS	CGF	CGS	SGL-1116	SGF-1116
PULL HANDLES									
Ferrara (Diamond Cut) Back-to-back pull	10", 17", 30" (overall 10-13/16", 17-11/16", 30"); 11/16" dia, 2-1/16" projection	Black matte, Graphite, Brass, Antique Bronze, White (no White on CGF and SGF-1116)	3/8" to 9/16" STEEL; 3/8" to 1/2" aluminum	•	•	•	•	•	•
Torino (Linear Cut) Back-to-back pull	10", 17" (overall 10-13/16", 17-11/16"); 11/16" dia, 2-1/16" projection	Black matte, Brass	3/8" to 9/16" STEEL; 3/8" to 1/2" aluminum	•	•	•	•	•	•
Ladder Back-to-back pull	24", 36", 48", 60", 72"; 1-1/4" dia, 3" projection	Black matte; Brushed Stainless Steel, Polished Stainless Steel	3/8" to 9/16"	-	•	• ^b	•	•	• ^b
Locking Ladder Pull with concealed deadbolt	59-1/16" [1500 mm]; lock at 47-1/4" above floor; 1-1/4" dia	Black matte; Brushed Stainless Steel	3/8" to 9/16"	-	•	• ^b	•	-	-
Square Back-to-back pull	16", 31-1/2" [800 mm]; 13/16" × 2-3/8"	Black matte	3/8" to 9/16"	-	•	•	•	•	•
Urban Back-to-back pull	16"; 13/16" × 2-5/16" projection	Black matte; any RAL powder coat on request	3/8" to 9/16" direct; metal plate for other glass	•	-	-	-	-	-
Aston Frame-welded pull	Custom, up to 40"	Black matte; any RAL powder coat on request	Frame mounted, glass 3/16" to 1"	•	-	-	-	-	-
Minimal Frame-welded pull	6-5/16" × 1"; 1-5/8" projection	Black matte; any RAL powder coat on request	Frame mounted	•	-	-	-	-	-
SLIDING DOOR HANDLES AND EDGE PULLS									
Nova Concealed edge pull	One size; for pocket, multisliding and bi-fold doors	Black matte	Frame mounted	•	-	-	-	-	-
Rome Concealed handle with lock	7-1/4" × 2"; Keyed, Privacy, Passage or Dummy; on metal plate, protrudes 1/8"	Black matte, Brass	Frame mounted	•	-	-	-	-	-
Rectangular Flush sliding handle	6-5/16" × 1-13/16"; 15/16" deep	Black matte, Satin Anodized	3/8" to 1/2"	-	-	• ^b	•	•	• ^b
Round Flush sliding handle	2-9/16" dia; 1-15/16" deep	Black matte; Brushed Stainless Steel, Polished Stainless Steel	3/8" to 1/2"	-	-	• ^b	•	•	• ^b

Black only on CGF and SGF-1116. On CGF, Ladder, Locking Ladder, Rectangular, Round, Prime and the AMR patch lock are supplied in black matte only, and Ferrara without the White finish. On SGF-1116, Ladder, Rectangular, Round, the EUR center lock and the step-on lock are black only, and Ferrara without White.

Clear width effect. On CGF and CGS a pull handle deducts 6" from the door opening on a single slider and 12" on a double slider. A flat handle deducts nothing and stacks at 3-1/2". Where an accessible clear width is required, confirm the handle projection and resulting clear opening with Crystalia engineering.

Handle leaf on SGL-1116 and SGF-1116. The leaf carrying the handle is supplied about 5" wider than the other leaves, to protect the weather strip and keep the handle clear of the glass edge.

Custom. Custom lengths, designs and finishes are available on special order for the Ladder family. Glass cutouts are required for all glass-mounted handles.

b Black matte only on that system.



Lever Handles, Locks and Swing Hardware

LEVER SETS AND LOCKS BY SYSTEM · HANGING, CLOSING, LOCKING AND STOPS

MODEL	SIZES AND SECTION		FINISHES	GLASS	STEEL	KOMPAS	CGF	CGS	SGL-1116	SGF-1116
LEVER HANDLES AND LOCKS										
Modena Lever on 2" rosette	5-7/8" lever; 2-9/16" projection		Black matte; Rose Gold, Black Brushed Nickel	Frame mounted	•	-	-	-	-	-
Venice (Diamond Cut) Lever on 2" rosette	5-3/4" lever; 2-5/8" projection		Black matte; Gold, Antique Bronze	Frame mounted	•	-	-	-	-	-
Prime Lever with magnetic keyed lock	6-1/2" lever; 2-3/8" × 1-1/16" body; glass or wall strike		Black matte, Satin Anodized, Satin Stainless Steel	3/8" and 1/2"	-	-	• ^b	•	-	-
AMR Series patch lock Patch lock, keyed with thumbturn	6-7/16" × 2"; 5/8" dia 7-pin cylinder; bottom mounted		Black matte, Satin Anodized; Satin Stainless Steel on CGS	3/8" to 1/2"	-	•	• ^b	•	-	-
Lever handle kits Framed door lever kits	Standard, Square, Round (satin only) or Slim (black only) lever; mortise EUR cylinder		Black matte, Satin Anodized	Frame mounted	-	•	-	-	-	-
ADA lever Lever for the ADA Ultra Slim door	ANSI F109, F84 or F86 function, see p.11		Black	Frame mounted	-	•	-	-	-	-
Passage, Privacy, Keyed Entry Prefabricated steel door lever	One size		Black matte	Frame mounted	•	-	-	-	-	-
EUR center lock Hook bolt lock for sliding walls	Wall strike or glass keeper		Black anodized, Satin anodized	3/8" and 1/2"	-	-	-	-	•	• ^b
Step-on lock Foot-operated floor latch	One size		Black anodized, Satin anodized	3/8" and 1/2"	-	-	-	-	•	• ^b
HARDWARE	STEEL	KOMPAS	CGF	CGS	SGL-1116			SGF-1116		
SWING AND PIVOT										
Hanging	Bullet hinges, ball bearing: 3 to 43" wide, 4 to 49-3/16". Pivot: top pivot and arm; patch to 39-3/8", XL patch to 49-3/16"	Hinges 180° outswing, 3 per leaf. Frameless doors: pivot patch	Hydraulic bottom pivot patch fitting CGBF-100 with top patch; sidelite transom pivot patch	Hydraulic bottom pivot patch fitting CGBF-100 with top patch; sidelite transom pivot patch	-	-	-	-	-	-
Closer	Concealed closer	Automatic surface-mounted closer; self-closing patch fitting on frameless doors	Self-closing hydraulic patch with speed valves; 220 lbs, 39-3/8" max door	Self-closing hydraulic patch with speed valves; 220 lbs, 39-3/8" max door	-	-	-	-	-	-
Locking	EUR deadlock 60 to 80 mm, cylinder or thumbturn; US deadlock; entry latch, ball catch, flush bolt; concealed electromagnetic lock	Mortise EUR cylinder 70 mm; AMR patch lock; electric strike; surface electromagnetic lock, single or double	AMR patch lock, US cylinder; surface electromagnetic lock, single or double; glass-mount thumbturn lock	AMR patch lock, US cylinder; surface electromagnetic lock, single or double; glass-mount thumbturn lock	EUR center lock, hook bolt, wall strike or glass keeper; step-on lock; stopper and tamper-proof blocker			EUR center lock, hook bolt, wall strike or glass keeper; step-on lock; stopper and tamper-proof blocker		
Door stop	Floor stop; magnetic catch and strike	Floor stop; single or double header stop	Floor stop; header stop; transom stopper	Floor stop; single or double header stop	-	-	-	-	-	-

HARDWARE	STEEL	KOMPAS	CGF	CGS	SGL-1116	SGF-1116
SLIDING AND MULTISLIDING						
Roller / carriage	Rollers XL1, double stopper or double soft-close: sliding and pocket. Rollers XL2: multisliding. Rollers FXL with pivot: bi-fold	Rollers A/B/C, double anti-shock or double soft-close, shared with CGS and CGF	Rollers A/B/C, double anti-shock or double soft-close	Rollers A/B/C, double anti-shock or double soft-close. Rollers H, anti-shock plus soft-close: multisliding	1116 premium or compact bottom rollers on the glass-mounted profile	1116 premium or compact bottom rollers on the glass-mounted profile
Roller load rating	308 lbs [140 kg] per door, XL1 and XL2. Bi-fold 122 lbs [55 kg] per panel at 2 to 4 panels, 88 lbs [40 kg] at 5 to 6	242 lbs [110 kg]	242 lbs [110 kg]	242 lbs [110 kg], sliding and multisliding	330 lbs [150 kg] premium; 220 lbs [100 kg] compact	330 lbs [150 kg] premium; 220 lbs [100 kg] compact
Glass accepted by rollers	Steel leaf, any listed glass	1/4", 3/8"	3/8"	3/8", 1/2"	3/8", 1/2"	3/8", 1/2"
Bottom guide	Bottom guide with 1/16" and 1/8" shims	Adjustable bottom guide, shared with CGS and CGF	Adjustable bottom guide	Adjustable bottom guide; floating guide on multisliding	Bottom guide profile: surface, recessed or MINI	Bottom guide profile: surface or recessed
Soft close	Yes, double soft-close option; opening and closing force 40 N ± 5 N	Yes, double soft-close option	Yes, double soft-close option	Yes, double soft-close; multisliding combines anti-shock and soft-close	On request	On request
Height adjustment	On request	± 1/16" at the roller	± 1/16" at the roller	± 1/16" at the roller	± 3/16" at each roller	± 3/16" at each roller
SEALS AND THRESHOLDS						
Threshold and seals	Automatic threshold and threshold XL; E, D and foam gaskets; brush pile weatherseal 7 × 8 mm	EPDM door foam gasket 1/4" × 3/16" and 1/4" × 3/8"; EPDM profile foam gasket 1/4" and 3/8"; glazing beads for 3/8" and 5/8"; brush seal 9/16" on sliding doors	Type 1 and Type 2 glazing gasket for 3/8"; brush seal 9/16"	Glazing gasket for 3/8" and 1/2", black or gray; vinyl gasket 1/16" and 1/8" for fixed panels	Standard Y seal, vinyl bulb seal and rigid H seal, each for 3/8" and 1/2"; pile brush weatherstripping; profile gasket for 3/8" glass	Pile brush weatherstripping for 3/8" and 1/2"; brush pile weatherseal 7 × 8 mm; profile gasket for 3/8" glass

Hardware finishes follow the system finish range on page 2. Black matte is available on every system; satin anodized on KOMPAS, CGS and SGL-1116; satin stainless steel and polished steel on selected CGS and KOMPAS hardware. Reinforcement and anchorage of the surrounding structure, including the head condition carrying a sliding track, are by others.



LAYOUT	STEEL	KOMPAS	CGF	CGS	SGL-1116	SGF-1116
LAYOUT ALLOWANCES						
Clear passage Deduction from door opening	On request	Swing: door opening minus 3-1/8"; sliding minus 6" single, 12" double	Swing: minus 3-1/2"; sliding with pull handle minus 6" single, 12" double; flat handle no deduction	Swing: minus 3-1/8"; sliding with pull handle minus 6" single, 12" double; flat handle no deduction	By configuration formula, see spec sheet pp. 9 to 13	By configuration formula, see spec sheet pp. 9 to 11
Panel overlap, sliding	On request	On request	3/8"	1" sliding; 1-3/4" multisiding	5/16"	5/16" [7.94 mm]
PARTITION BUILD-UP						
Head condition	Track XL fixed to structure or to wall mounting rail	Minimum finished opening height = door opening plus 1-9/16"	Top track = door opening x 2, reinforced over its entire length	Top track = door opening x 2, reinforced over its entire length and set level	Recessed or surface top guide, 4 mounting options	Recessed or surface top guide
Floor condition	Bottom guide with 1/16" and 1/8" shims; bi-fold is top-hung with no floor track	Wood blocking plus 1/16" shim	Adjustable bottom guide, shims 1/16" and 1/8"	Adjustable bottom guide, shims 1/16" and 1/8"	Bottom guide profile, surface or recessed; max floor deviation 3/8" per leaf	Bottom guide profile, surface or recessed
Reinforcement	Metal strips within the frame	Steel insert 236" or wooden insert within the vertical profile; spacing per chart below	Top track reinforced over its entire length, by others	Top track reinforced over its entire length and set level, by others	Top and bottom guide fixed to structure	Top and bottom guide fixed to structure
Junction strips	-	180°, 90°, T-joint and abutment strips, 120", for 3/8"	Clear copolymer strip, abutment strip, sealant	180°, 90°, T-joint and abutment strips, 120", for 3/8" and 1/2"	-	-
Fixing to structure	Concrete screw 7.5 × 52 mm to floor; tapping screw 4.2 × 65 mm with wallboard anchor to wall and ceiling; wall mounting rail drilled and tapped M6	Self-tapping screws 4.8 × 16 and 4.8 × 32; L, T and I brackets; wood blocking plus 1/16" shim	Horizontal floor-to-floor and vertical floor-to-wall corner brackets; double-sided tape for frame and mullion	Double-sided tape and sealant; shims for glass	Screw kits for tracks, 1-1/2" and 2" length	Screw kits for tracks, 1-1/2" and 2" length

KOMPAS partition reinforcement

Maximum distance between vertical profiles. Advisory, stationary partitions only.

CONDITION	PARTITION HEIGHT	SPACING BETWEEN VERTICALS
Without reinforcement Does not account for vibration from door operation	98" to 130"	31" to 70"
With steel or wooden insert Accounts for vibration from door operation	126" to 157"	35" to 70"

Notes

Reinforcement. Partition heights above 157" and any door-bearing partition are engineered per project. Reinforcement inserts are supplied by Crystallia; the supporting structure is by others.

Structure by others. Reinforcement and anchorage of the surrounding structure, including the head condition carrying a sliding track, are by others.

STEEL

FRAMED STEEL PARTITIONS AND DOORS

Leaf profile	Hollow tube 13/16" × 1-9/16" perimeter, 9/16" × 9/16" muntin
Face width	1-9/16" typical; 2-5/16" on 1/2" and 9/16" glass
Glazing leg	9/16"
Top profile tube	1-15/16" × 1-9/16"
Track XL	1-9/16" × 1-13/16", 118" or 157"
Wall mounting rail XL	1-15/16" × 2-3/8", 118" or 157"
Bi-fold track	1-5/8"
Hinges	3 hinges to 43" wide, 4 hinges to 49-3/16"
Max height	144"; bi-fold 120" at 1/4" glass
Custom	Arches, non-standard openings, wine rooms; stainless steel on request

CGF

THIN FRAMED ALUMINUM

Face width	1-1/8" perimeter frame and decorative mullion
U-channel	1-1/8" × 1-3/16"; deep 1-1/8" × 1-9/16"
Glass pocket	7/16" ± 1/16"
Top track A	2-5/16" × 2-3/8", sliding without fixed panels
Top track B	3" × 2-3/8", sliding with fixed panels
Recess, min.	3-1/8" or 2-3/8" depending on track
Overlap	3/8"
Swing angles	0°, 10°, hold open 90°, 150°
Layouts	Perimeter frame, horizontal mullions, criss-cross, custom
CGF-2 variant	Track 2-13/16"; brush seal at head; bottom guide

KOMPAS

FRAMED ALUMINUM PARTITIONS AND DOORS

Face width	1-1/2", single and double glazed
Profile, single glazed	2-9/16" × 1-1/2" (381001)
Profile, double glazed	2-5/8" × 1-1/2" double sided (382001)
Section with cover caps	3-3/16" single, 3-7/8" double
Cover caps	1-1/2" middle and corner (381004, 381005)
Corner profile	90° to 180° single glazed; 90° to 170° double glazed
Head allowance	Min. finished opening height = door opening + 1-9/16"
Min. glass cell	5-1/2" min., 7" recommended, 12" min. on the second axis
Horizontal panels	Glass panels may be set horizontally where access limits panel size
Ultra Slim door	Jamb depth 2-1/16"; stile face 1-13/16"; 1/4" glass only
ADA Ultra Slim	Door opening 36-15/16" × 85-15/16"; clear space approx. 32"; bottom gap 5/16"
Prefabricated framed	Jamb depth 1-9/16"; 90° single, 135° double opening angle
Sliding door	Track A or C and Rollers A/B/C shared with CGS; adjustable bottom guide

SGF-1116

BOTTOM-ROLLING FRAMED SLIDING GLASS WALL

Configurations	5; no wall U-profile variants; up to 6 panels to one side
Shared with SGL-1116	Roller platform, guide profiles, retention pads and end caps, glass range
Wide perimeter frame	For 3/8" or 1/2" glass, 118"
Wide decorative mullion	118"
Layouts	Perimeter frame, mullions, criss-cross
Weatherseal	Brush pile 7 × 8 mm, replaces weather strips
Panel size rule	Panel = glass + 1/4"
Overlap	5/16" [7.94 mm]
Application	Interior only

CGS

FRAMELESS, U-CHANNEL CAPTURED

U-channel, standard	1" × 1", two gaskets each side
U-channel, deep	1" × 1-1/2", two gaskets each side
Additional channels	1-1/8" × 1-3/16"; 1-1/8" × 1-9/16"; 11/16" × 3/4"; 11/16" × 1/2"
Top track A	2-5/16" × 2-3/8", sliding without fixed panels
Top track C	2-5/16" × 2-3/4", sliding with fixed panels
Track H2	4-3/16" × 2-3/4", 157", multisiding
Multisiding recess	4-5/16" minimum
Overlap	1" sliding, 1-3/4" multisiding
Glass setback Y	1/2" at 3/8" glass, 7/16" at 1/2" glass
Swing angles	0°, 10°, hold open 90°, 150°

SGL-1116

BOTTOM-ROLLING FRAMELESS SLIDING GLASS WALL

Configurations	7, including wall U-profile and pocket variants; up to 6 panels to one side
Top guide	SGLT1 118" or 236", plus extension SGLTE2
Bottom guide	SGLB1 118" or 236", plus extension SGLBE2
Wall U-profile	SGLWUC 120"; glass to wall gap 11/16"
Bottom glass profile	SGLGP 118" or 236"
MINI bottom guide	120" or 240", satin anodized; interior only; max 3 panels one-way, 6 two-way; California only
Panel size rule	Panel = glass + 1/4"; handle leaf = glass + 5"
Overlap	5/16"
Pocket depth	2" into wall
Recessed guide, min.	3-1/2" at 3 panels, rising to 6-1/2" at 6 panels
Floor tolerance	Max deviation 3/8" per leaf, ± 3/16" at each roller
Exterior	Recessed guides require a drainage system in the groove



Door and panel limits by configuration

SYSTEM	CONFIGURATION	LIMITING COMPONENT	MIN WIDTH	MAX WIDTH	MAX HEIGHT	MAX WEIGHT
STEEL	Swing	Bullet hinges	12"	43" with 3 hinges; 49-3/16" with 4 hinges	144"	308 lbs [140 kg]
STEEL	Pivot	Self-closing patch fitting	29-1/2"	39-3/8"	144"	220 lbs [100 kg]
STEEL	Pivot	Self-closing patch fitting XL	39-7/16"	49-3/16"	144"	220 lbs [100 kg]
STEEL	Sliding, pocket	Rollers XL1 double stoppers	25-1/4" (3/8" glass)	49-3/16"	144"	308 lbs [140 kg]
STEEL	Sliding, pocket	Rollers XL1 double soft-close	30-1/2"	49-3/16"	144"	308 lbs [140 kg]
STEEL	Multisliding	Rollers XL2 double stoppers	25-1/4"	49-3/16"	1/4": 144"	308 lbs [140 kg]
STEEL	Multisliding	Rollers XL2 double soft-close	30-1/2"	49-3/16"	1/4": 144"	308 lbs [140 kg]
STEEL	Bi-fold	Rollers FXL	12"	2 panels 33-7/16"; 3 to 4 panels 29-1/2"; 5 to 6 panels 20-1/2"	1/4": 120"	2 to 4 panels 122 lbs [55 kg] each; 5 to 6 panels 88 lbs [40 kg] each
CGS	Swing	Self-closing patch fitting	29-1/2"	39-3/8"	3/8": 108"; 1/2": 120"	220 lbs [100 kg]
CGS	Sliding	Rollers A/B/C double anti-shock	25-9/16"	49-3/16"	3/8": 108"; 1/2": 120"	242 lbs [110 kg]
CGS	Sliding	Rollers A/B/C double soft-close	32-1/16"	49-3/16"	3/8": 108"; 1/2": 120"	242 lbs [110 kg]
CGS	Multisliding	Rollers H anti-shock plus soft-close	26-7/16"	49-3/16"	120"	242 lbs [110 kg]
CGF	Swing	Self-closing patch fitting	29-1/2"	39-3/8"	120"	220 lbs [100 kg]
CGF	Sliding	Rollers A/B/C double anti-shock	25-9/16"	49-3/16"	108"	242 lbs [110 kg]
CGF	Sliding	Rollers A/B/C double soft-close	32-1/16"	49-3/16"	108"	242 lbs [110 kg]
SGL-1116, SGF-1116	Sliding	1116 compact rollers	13-1/2"	22-7/16"	3/8": 108"; 1/2": 120"	220 lbs [100 kg]
SGL-1116, SGF-1116	Sliding	1116 premium rollers	22-1/2"	49-3/16"	3/8": 108"; 1/2": 120"	330 lbs [150 kg]

Maximum glazed area by weight limit

LIMIT	APPLIES TO	3/8" GLASS 4.92 LBS / SQ FT	1/2" GLASS 6.56 LBS / SQ FT
220 lbs	CGF and CGS swing; KOMPAS frameless swing; STEEL pivot; 1116 compact rollers	44.7 sq ft	33.5 sq ft
242 lbs	CGF, CGS and KOMPAS sliding; CGS multisliding	49.2 sq ft	36.9 sq ft
308 lbs	STEEL swing, sliding, pocket, multisliding	62.6 sq ft	47.0 sq ft
330 lbs	1116 premium rollers	67.1 sq ft	50.3 sq ft

Derived: system weight limit divided by glass weight. Glass only, before hardware and handles. Example: a CGS sliding leaf in 1/2" glass at 49-3/16" × 108" is 36.9 sq ft, which is 242 lbs of glass, at the limit.



Source documents

SYSTEM	DOCUMENT	REVISION	ISSUE
STEEL	Swing, Sliding, Multisliding, Bi-Fold, Pocket, Pivot, Divider and Prefabricated Door spec sheets	Rev. 1	05.2026
KOMPAS	Swing and Divider spec sheets, single and double glazing; Sliding spec sheet	Rev. IS 2 to IS 5	04.21.2026
KOMPAS	Ultra Slim, ADA Ultra Slim and Prefabricated Framed Doors spec sheets	Rev. IS 1, IS 3, Rev. 6	09.10.2026
CGF	Swing, Sliding, CGF-2 Sliding and Divider spec sheets	Rev. 11, IS 6, IS 1, Rev. 4	04.2026 to 07.2026
CGS	Swing, Sliding, Multisliding and Divider spec sheets	Rev. IS 9, IS 3	04.2026 to 06.2026
SGL-1116	SGL-1116 spec sheet	Rev. IS 6	06.03.2026
SGF-1116	SGF-1116 spec sheet	Rev. IS 3	06.03.2026
All systems	Product catalog incl. door and panel limits table	Web edition	07.02.2026
All systems	Glass catalogs, one per system	Current	01.15.2026
All systems	Handle catalogs, one per system and operation	2026 edition	2026
All systems	Hardware instruction sheets and component database	Current	06.2026 to 09.16.2026

STEEL prefabricated door

Leaf size	36" × 80" [914.4 × 2032 mm]
Frame / rough opening	37-1/2" × 81-1/16" [952.4 × 2059 mm]
Leaf perimeter profile	Hollow tube 13/16" × 1-9/16"
Muntin grid profile	Hollow tube 9/16" × 9/16"
Glass	3/16" clear, low iron or clear acid
Handing	LH outswing / RH inswing, and RH outswing / LH inswing
Assembly weight	196.8 lbs
Lever handles	Passage, Privacy, Keyed Entry, black

KOMPAS standard door leaves

TYPE	DOOR OPENING	LEAF WEIGHT
Single swing, framed	36-15/16" × 85-15/16"	82 lbs
Single swing, framed	36-15/16" × 94-7/16"	88 lbs
Single swing, framed	39-9/16" × 85-13/16"	91 lbs
Double swing, framed	63-9/16" × 85-13/16"	149 lbs
Double swing, framed	69-15/16" × 85-15/16"	160 lbs
Double swing, framed	69-15/16" × 94-7/16"	175 lbs
Ultra Slim single swing	36-15/16" × 94-7/16"	105.6 lbs
ADA Ultra Slim single swing	36-15/16" × 85-15/16"	On request

ADA Ultra Slim lever functions

KOMPAS ADA ultra slim prefabricated door, ANSI lever options. Bottom gap 5/16", clear space approx. 32"; confirm accessibility compliance per project.

FUNCTION	OPERATION
ANSI F109 Entry / Office	Pushing and turning the inside button locks the outside lever, requiring a key until the button is manually unlocked. Pushing the button alone locks the outside lever until unlocked with a key or by turning the inside lever. Inside lever always free for immediate egress.
ANSI F84 Classroom	Outside lever is locked and unlocked by key. Inside lever is always unlocked and always free for immediate egress.
ANSI F86 Storeroom	Outside lever is always locked. Entry by key only. Inside lever is always unlocked and always free for immediate egress.

Notes for specifiers

Status of this guide. This guide consolidates the documents listed here as of September 2026. It does not replace them. The issued spec sheet and shop drawings for a project govern.

Performance testing. Crystalia has not performed acoustic, thermal, fire-resistance, wind-load or air and water infiltration testing on these systems. No rated values are available and none should be assumed.

Lead time. Steel systems 10 to 18 weeks; aluminum and frameless systems 10 to 15 business days, depending on product and project location.

Dimensions. Profile dimensions on page 9 are transcribed from the current spec sheets. Confirm critical dimensions against the issued spec sheet or DWG before detailing.

Specifying. For a project-specific spec sheet, shop drawings or a value marked "On request", contact Crystalia engineering through sales@crystaliaglass.com or your project manager.