dormakaba

MUTO Premium and Comfort
Manual sliding door system

Brochure

MUTO Premium and Comfort
Manual sliding door system

Majoring in convenience
User-friendly models and options, individually configurable systems

Extraordinary convenience housed in a slim profile

The MUTO system impresses by virtue of its compact elegance and extensive functionality, creating a sliding door system with enhanced user-friendliness.

Even tailored solutions come easily

The fully integrated MUTO offers a choice of models and optional functions, all controlled by mechanisms housed out of sight behind the compact header. The XL 120 Self-Closing model offers the convenience of power- free self-closing, including DORMOTION at end of closing cycle and DORMOTION as an option in opening cycle (add option DMSC).

Optional convenience feature

A convenient option is the MUTO status indicator, which allows the door position to be monitored from anywhere in the building.

Glass, wood, or metal applications

MUTO is particularly suitable for glass applications, but can be adapted for wood, metal, or other door material solutions.

ADA compatibility

MUTO systems are ADA compatible with or without DORMOTION (DM), except for XL 120 SC. Note that, as with traditional swing doors, the force required to disengage from the DM latch and set the door in motion is not included in the measurement when meeting the required 5 lb opening force.

Self-closing – hassle-free

The MUTO Premium XL 120 Self-Closing model automatically closes the door once it has been opened; the quiet action operates without a power supply – an enhancement to any interior.

DORMOTION – the elegant Softclose® damping mechanism

DORMOTION

The epitome of elegant convenience, the optional DORMOTION function gently decelerates the door panel over the last few inches, taking it automatically and quietly to its end opened or closed position

Status indicator – everything under control

The optional status indicator ensures that the sliding door can be monitored with remarkable ease. As soon as the door opens or closes, a status signal is transmitted to the building management system or an indicator lamp – an important benefit in buildings requiring professional facility management capability.

Model comparison guide

Note: All measurements are shown in inches (mm) – example: 3/8" (10).
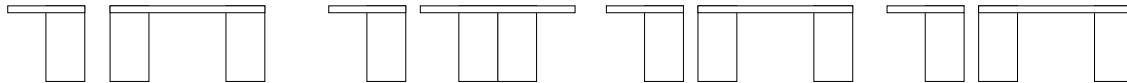
| Description	MUTO Premium XL 150 DORMOTION (DM)	MUTO Premium XL 150	MUTO Premium XL 80 DORMOTION (DM)	MUTO Premium XL 120 Self-Closing [3]
Track dimensions (less cover)	w = 2-3/4" (70) h = 2-23/32" (69)	w = 2-3/4" (70) h = 2-23/32" (69)	w = 2-3/4" (70) h = 2-23/32" (69)	w = 3-7/8" (98) h = 2-23/32" (69)
Track dimensions + cover profile[1]	w = 2-27/32" (72) h = 2-23/32" (69)	w = 2-27/32" (72) h = 2-23/32" (69)	w = 2-27/32" (72) h = 2-23/32" (69)	w = 3-15/16" (100) h = 2-23/32" (69)
Track dimensions + optional sidelite extrusion + cover[2]	w = 3-19/32" (91)	w = 3-19/32" (91)	w = 3-19/32" (91)	w = 4-11/16" (119)

Description				
Glass thickness	5/16"–9/16" (8–13.5)	5/16"–9/16" (8–13.5)	5/16"–9/16" (8–13.5)	5/16"–9/16" (8–13.5)
Max wood door thickness	1-31/32" (50)	1-31/32" (50)	1-31/32" (50)	1-31/32" (50)
Door height	≤ 118" (3 m)	≤ 118" (3 m)	≤ 118" (3 m)	≤ 118" (3 m)
Min door width (glass or wood)	26" (660)	26" (660)	26" (660)	34" (864)
Max glass door width	57" (1448)	57" (1448)	57" (1448)	57" (1448)
Max wood door width	60" (1524)	60" (1524)	60" (1524)	60" (1524)
Door height adjustment	+/- 3/16" (+/- 5)	+/- 3/16" (+/- 5)	+/- 3/16" (+/- 5)	+/- 3/16" (+/- 5)
Max door weight/one door	330 lb (150 kg)	330 lb (150 kg)	176 lb (80 kg)	264 lb (120 kg)
Max door weight/two doors	2 × 330 lb (150 kg)	2 × 330 lb (150 kg)	2 × 176 lb (80 kg)	2 × 264 lb (120 kg)
Clearance between door & wall (glass)	25/32" (20)	25/32" (20)	25/32" (20)	25/32" (20)
Clearance between door & wall (wood)	9/32" (7)	9/32" (7)	9/32" (7)	9/32" (7)
Mounting options	Wall, ceiling (surface or recessed), or glass transom/fixed panel	Wall, ceiling (surface or recessed), or glass transom/fixed panel	Wall, ceiling (surface or recessed), or glass transom/fixed panel	Wall, ceiling (surface or recessed), or glass transom/fixed panel
25% faster installation	●	●	●	—
Wood door kit available	○	○	○	○
Tempered Laminated Glass (TLG) kit available	○	○	○	○

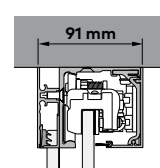| Functions				
DORMOTION	● Std	○	● Std	● Closing cycle std [3] ○ Opening cycle optional (DMSC)
Synchro (synchronized opening and closing of pairs)	—	○	—	—
Status indicator	○	○	○	○
Self-closing	—	—	—	● Std

● yes   — no   ○ optional

Note: Dimensions are in inches, with millimeters as the benchmark.

[1] Track dimensions + cover profile

72 mm
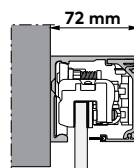
[2] Track dimensions + optional sidelite extrusion + cover

91 mm

| MUTO Premium XL 80 Telescopic – min and max door widths for glass and wood doors	WITHOUT HANDLE		WITH HANDLE [6]		
Min door width	31-3/32" (790) with DORMOTION		33-21/32" (855) with DORMOTION		
	23-5/8" (600) without DORMOTION		26-3/16" (665) without DORMOTION		
	Fast door	Slow door	Fast door	Slow door	
Max door width	47-1/4" (1200)	44-11/16" (1135)	49-13/16" (1265)	44-11/16" (1135)	

150 Satin Aluminum

113 Similar to Satin Stainless
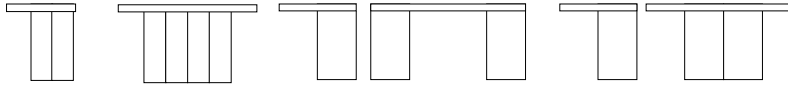
Description	MUTO Premium XL 80 Telescopic [3] [4] [5]	MUTO Comfort L 80 DORMOTION (DM)	MUTO Comfort L 80
Track dimensions (less cover)	w = 4-15/16" (125) h = 2-23/32" (69)	w = 2-23/32" (69) h = 2-9/32" (58)	w = 2-23/32" (69) h = 2-9/32" (58)
Track dimensions + cover profile[1]	w = 5" (127) h = 2-23/32" (69)	w = 2-13/16" (71) h = 2-9/32" (58)	w = 2-13/16" (71) h = 2-9/32" (58)
Track dimensions + optional sidelite extrusion + cover[2]	w = 5-3/4" (146)	w = 3-9/16" (90)	w = 3-9/16" (90)

Description			
Glass thickness	5/16"–9/16" (8–13.5)	5/16"–9/16" (8–13.5)	5/16"–9/16" (8–13.5)
Max wood door thickness	1-31/32" (50)	1-31/32" (50)	1-31/32" (50)
Door height	≤ 118" (3 m)	≤ 118" (3 m)	≤ 118" (3 m)
Min glass and wood door width	See specifications above for min and max widths for glass and wood doors with and without handles and with and without DORMOTION (DM).	26" (660)	26" (660)
Max glass door width		57" (1448)	57" (1448)
Max wood door width		60" (1524)	60" (1524)
Door height adjustment	+ 3/16" − 1/8" (+ 5 − 3)	+ 3/16"–1/8" (+ 5 − 3)	+ 3/16"–1/8" (+ 5 − 3)
Max door weight/one door	2 × 176 lb (80 kg)	176 lb (80 kg)	176 lb (80 kg)
Max door weight/two doors	4 × 176 lb (80 kg)	2 × 176 lb (80 kg)	2 × 176 lb (80 kg)
Clearance between door & wall (glass)	21/32" (17) [4]	11/16" (17)	11/16" (17)
Clearance between door & wall (wood)	5/32" (4)	9/32" (7)	9/32" (7)
Mounting options	Wall, ceiling, or glass transom/fixed panel	Wall, ceiling, or glass transom/fixed panel	Wall, ceiling, or glass transom/fixed panel
25% faster installation	—	●	●
Wood door kit available	○	○	○
Tempered Laminated Glass (TLG) kit available	○	○	○

Functions

DORMOTION	○ [3]	● Std	○
Synchro (synchronized opening and closing of pairs)	—	—	○
Status indicator	○	○	○
Self-closing	—	—	—

Notes
3   XL 120 SC and XL 80 TEL are handed in the direction of the opening cycle. Example: Right hand opens to right when facing the front of the track.
4   Gap between fast and slow moving XL 80 TEL glass panels equals: 31/32" (24.5) with 3/8" (10) thick glass and 7/8" (22) for 9/16" (13.5) thick glass
5   Total XL 80 TEL system width cannot exceed 236" (6m). Additional charges incurred for units exceeding 118" (3 m).
6   Minimum panel size based on nominal handle location 2-1/2" (64) from leading edge of glass.

1 door panel

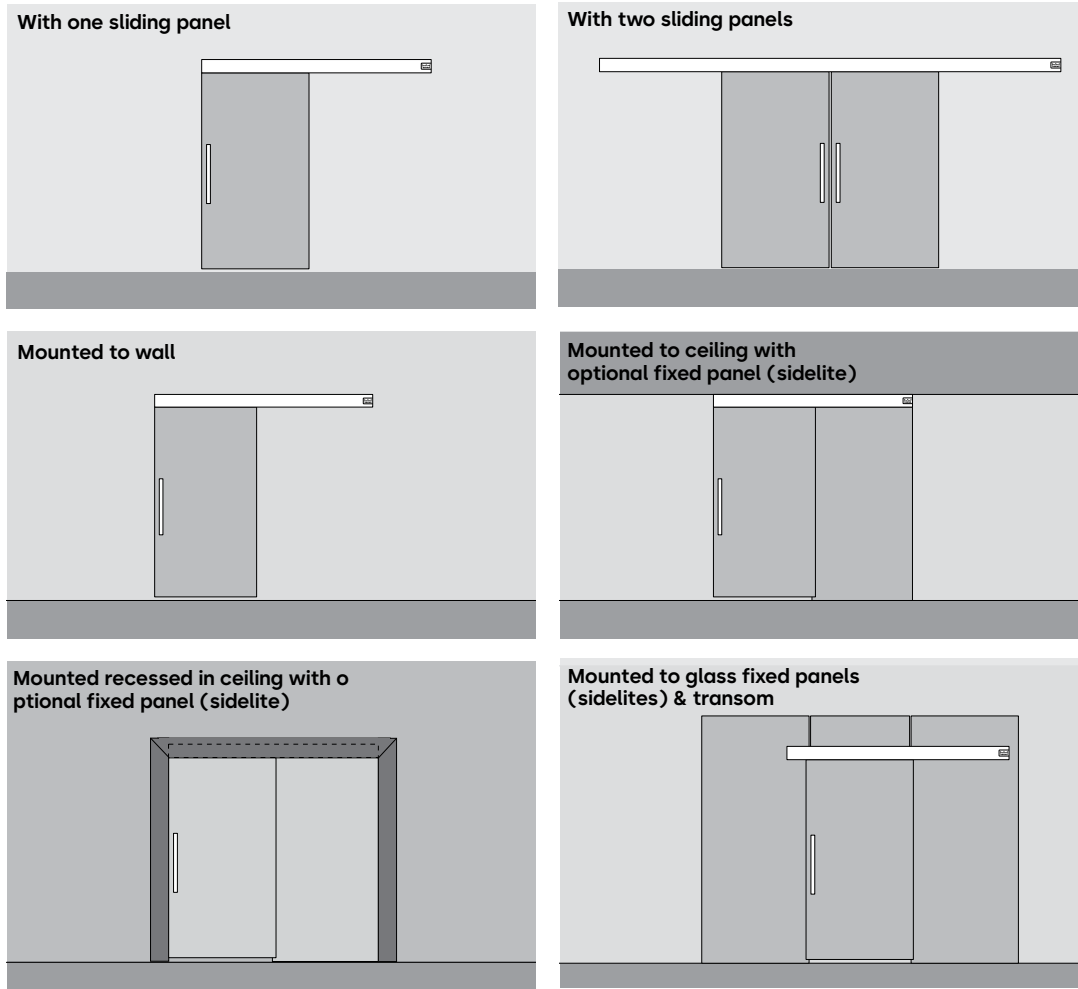2 door panels with Synchro (not available with DORMOTION)

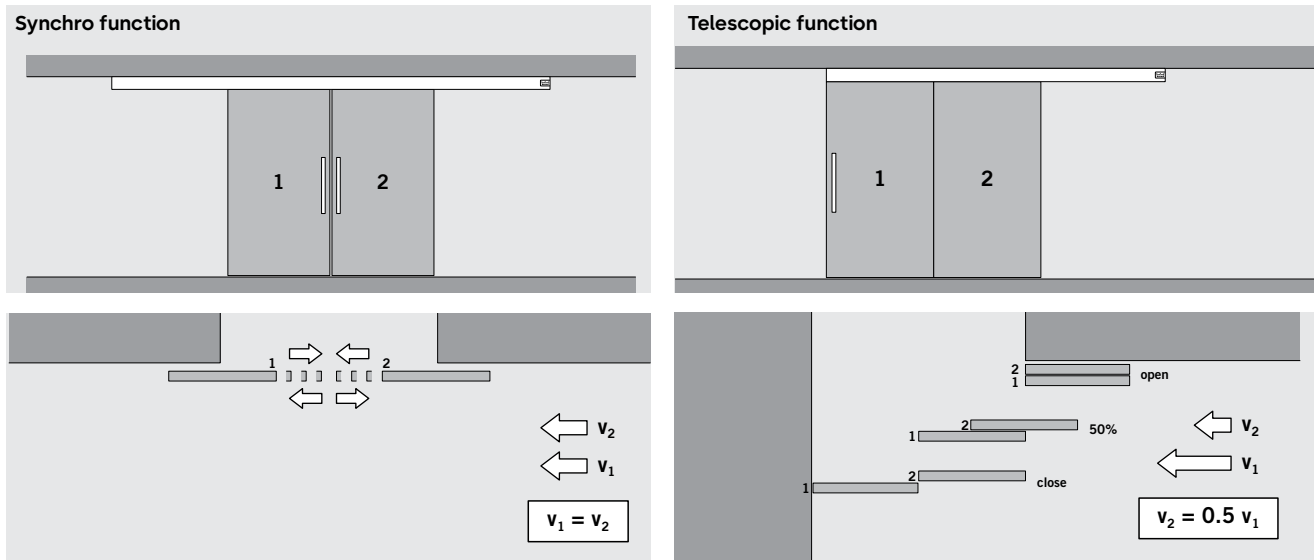2 door panels without Synchro

1 or 2 door panels with telescopic

Installation types

Installations

With one sliding panel

With two sliding panels

Mounted to wall

Mounted to ceiling with optional fixed panel (sidelite)

Mounted recessed in ceiling with o ptional fixed panel (sidelite)

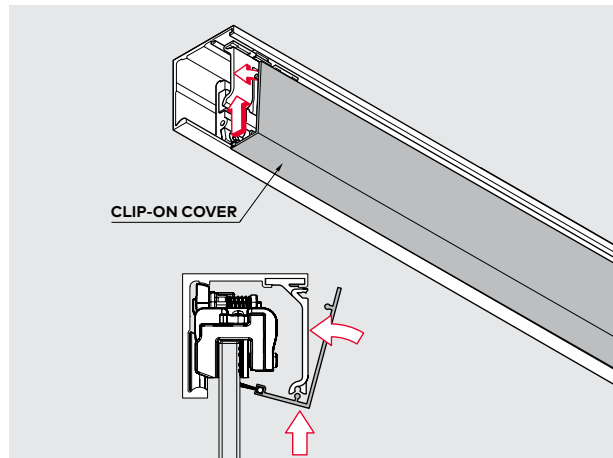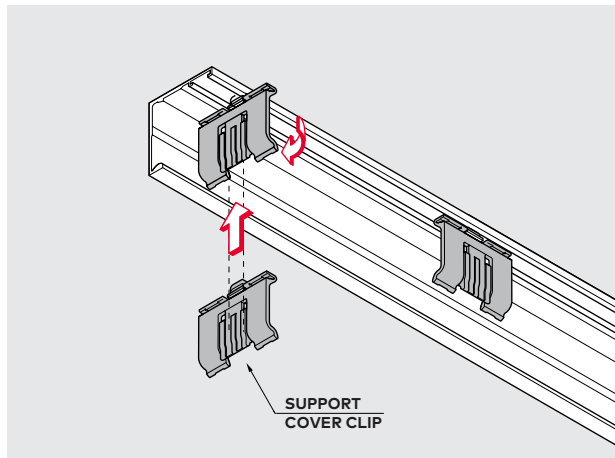**Mounted to glass fixed panels (sidelites) & transom**

Disclaimer
When sizing MUTO door panels, maximum weight capacity is key. When maximizing door panel width, height, or thickness, one or more of the other dimensions (width, height, or thickness) will require reductions to remain at or below the maximum allowable weight capacity of the specific MUTO sliding unit, within industry codes, standards, or specifications, and within door manufacturer recommendations. Actual track, cover, and/or other MUTO extrusion profile inventory lengths are 157-1/2" (4 m) for all Make-To-Order (MTO) units. All extrusion includes clamp marks visible within 1/2" (12) to 1-1/2" (38) from each end of all profiles. Clamp marks need to be cut off in the field for any full length profile shipped, with the exception of CE-R units. Please take into consideration when planning system lengths and list price charges. MTO systems other than CE-R will be fabricated at the factory with a joint at center for systems exceeding 154" (3.9 m), or 157" (4 m) for CE-R and charged accordingly with a per FT. list price add.
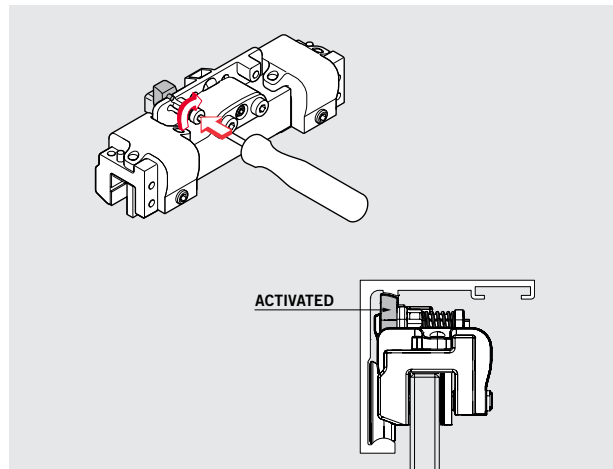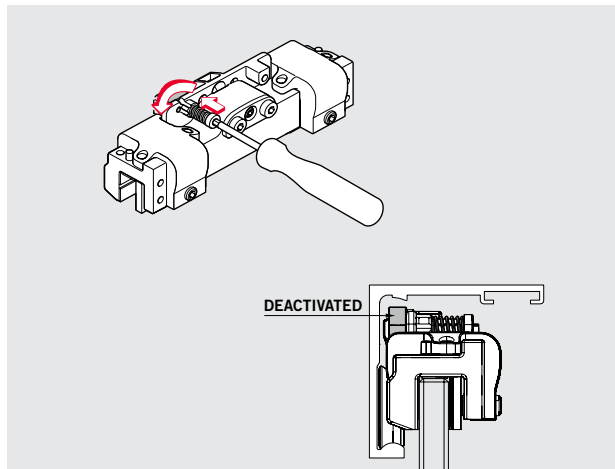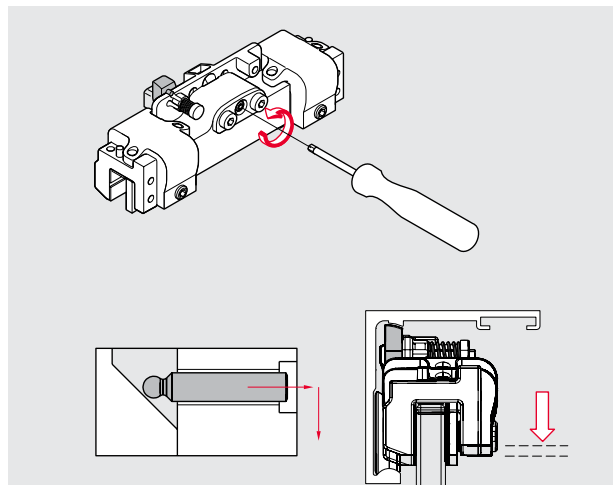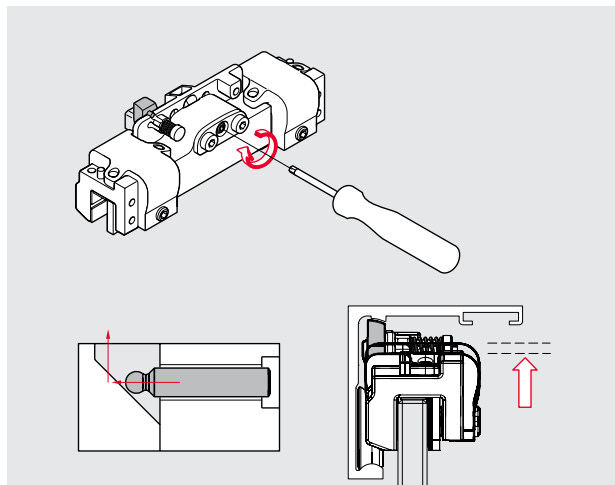
Functions

Synchro function

1   2

1   2

v_2

v_1

$$v_1 = v_2$$

Telescopic function

1   2

2
1   open

2
1   50%

1   2   close

v_2

v_1

$$v_2 = 0.5\ v_1$$

Installation made easy

Cover profile

SUPPORT
COVER CLIP
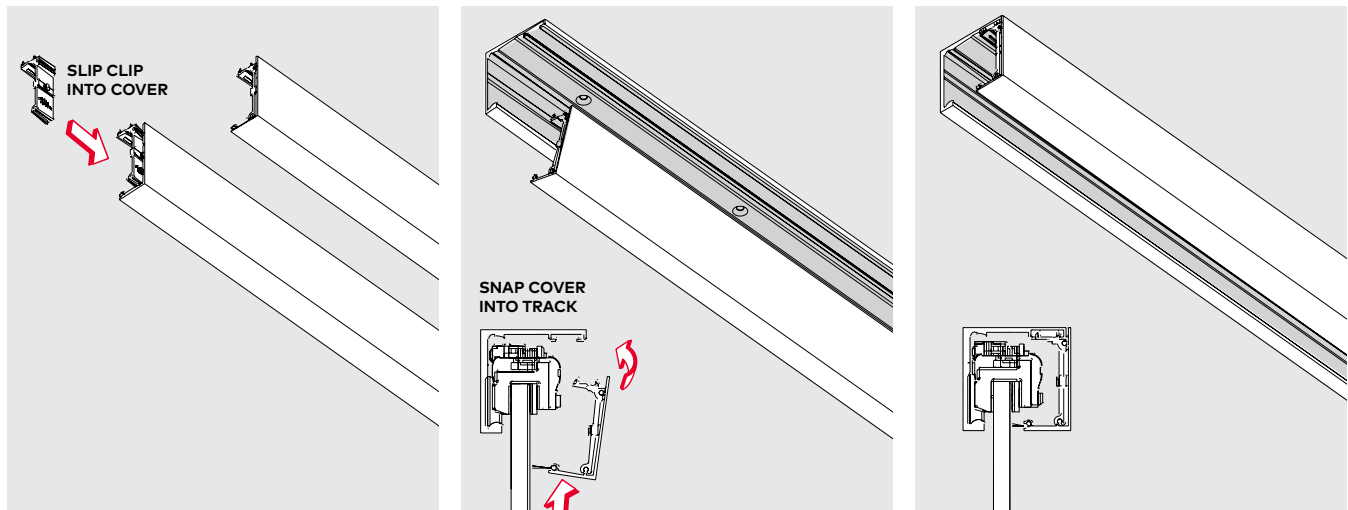
CLIP-ON COVER

Anti-jump device

DEACTIVATED

ACTIVATED

Height adjustment

Installation for ceiling recessed (CE-R) mount only

Cover profile

SLIP CLIP INTO COVER

SNAP COVER INTO TRACK

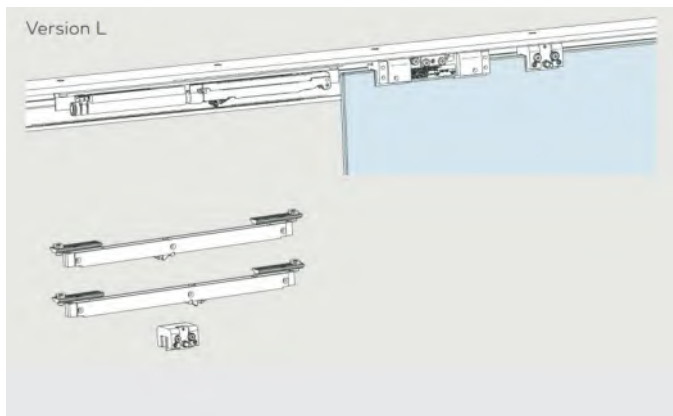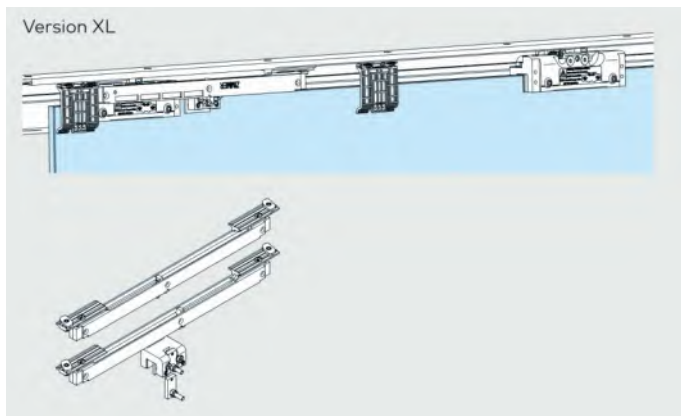## Anti-jump device

DEACTIVATED

ACTIVATED
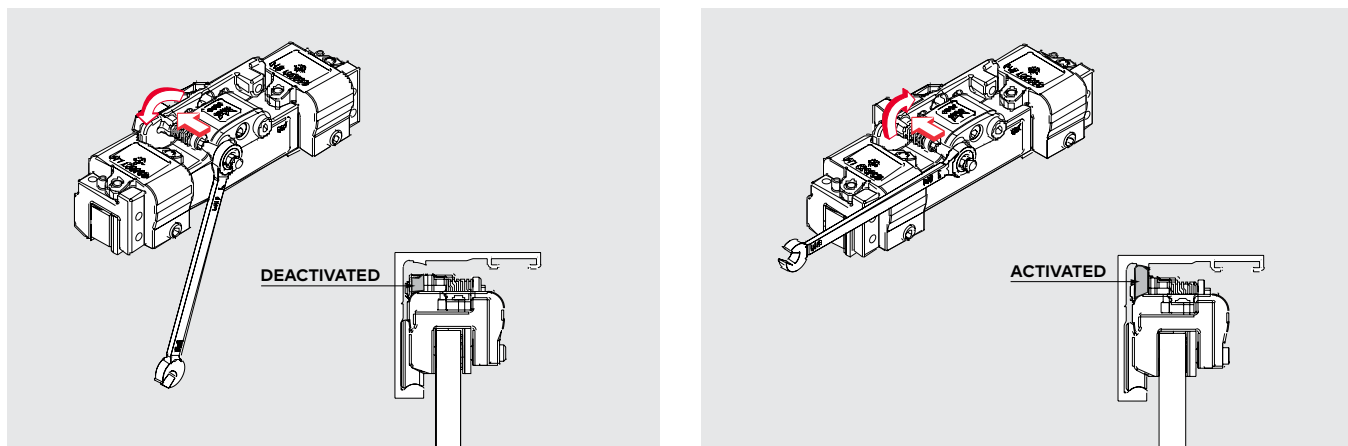
Height adjustment
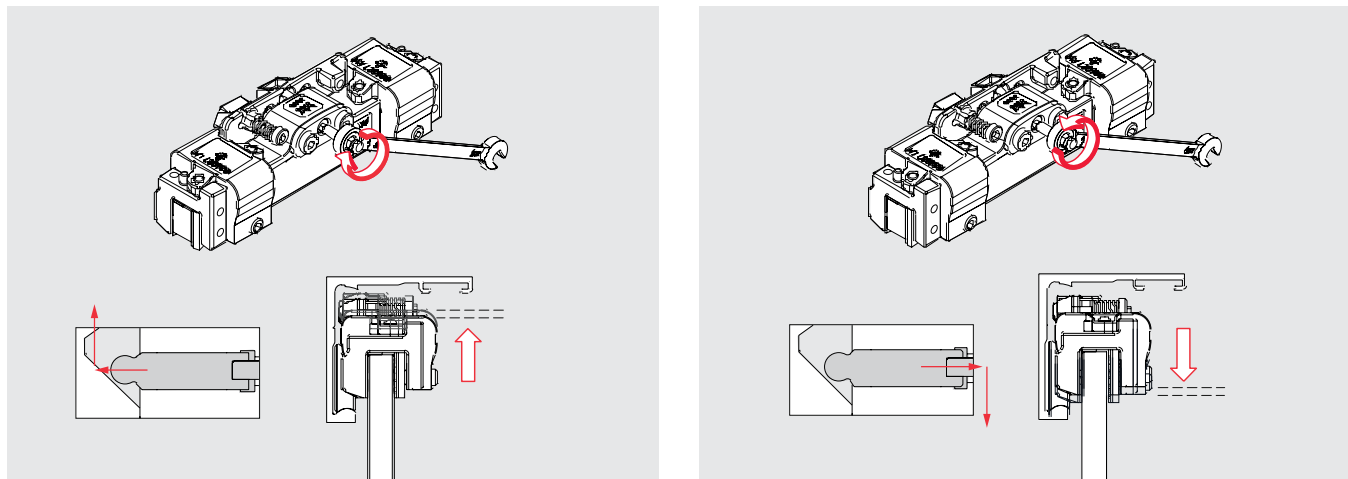
Installation made easy

Retrofit DORMOTION in the field
(minimum door panel widths must be considered)

Version XL

Version L

Optional status indicator retrofitted in field
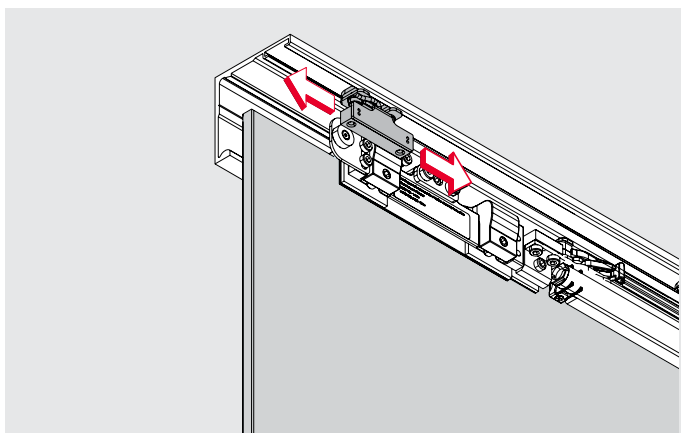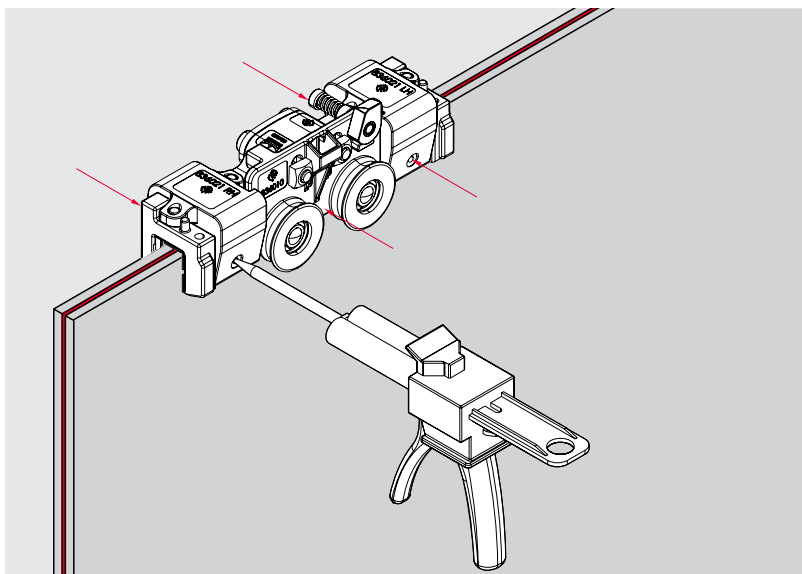

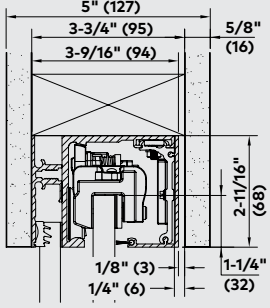## Adjustable endstop
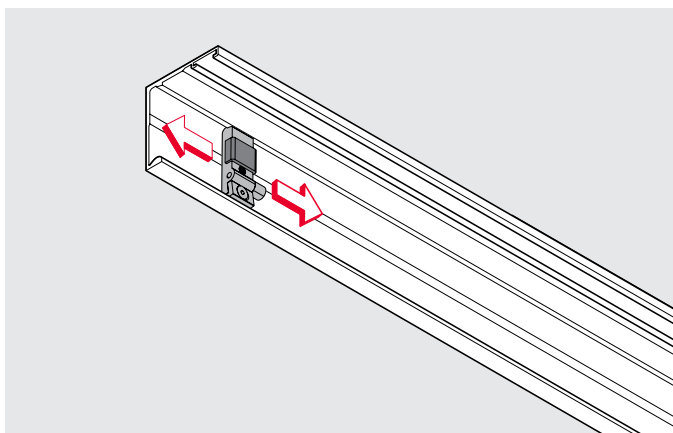
TLG compatibility

dormakaba's Clamp & Glue technology allows installation to tempered laminated glass.
This technology allows secure holding power with minimal clamping force, and does not require special glass preparation.
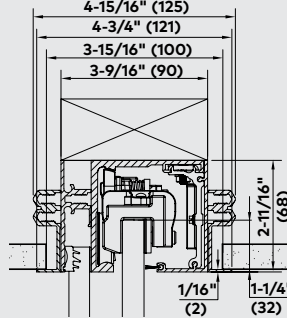
MUTO ceiling recessed (CE-R) mount applications

Premium XL 150/80 DORMOTION (DM), XL 150, XL 120 SC Sliding panels concealed or recessed into ceiling, header, drywall, or drop ceiling

Two most common applications
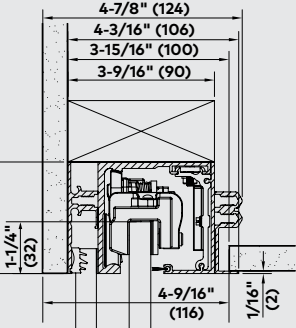
Option 1
Recessed both sides, drywall vertically mounted.
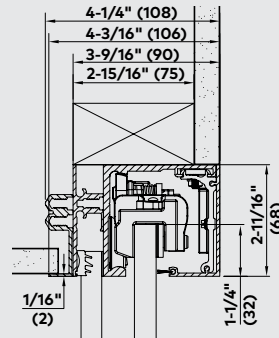
Option 2
Recessed both sides. (May be drop ceiling profile 836.820 or reinforced drywall; drop ceiling shown.)
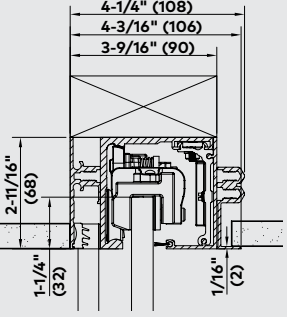
Other applications
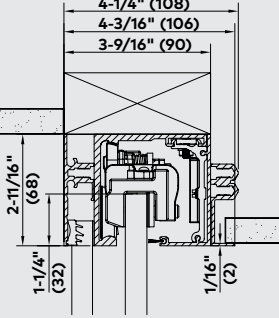
Option 3
Recessed both sides, drop ceiling profile by drywall. (Drop ceiling profile 836.820 one side by flush vertical drywall other side.)

Option 4
Recessed one side only. Drop ceiling profile by drywall above. (Drop ceiling profile 836.820 one side by vertical drywall above.)

Option 5
Recessed both sides, Drop ceiling profile by drywall. (Drop ceiling profile 836.820 one side by reinforced drywall other side.)

Option 6
Recessed one side only. Drop ceiling profile by drywall. (Drop ceiling profile 836.820 cover side by reinforced drywall above sidelite profile.)

Option 7
Recessed one side only. Drop ceiling profile by drywall. (Drop ceiling profile 836.820 one side by reinforced drywall above cover.)

Premium XL 150 DM / XL 150 / XL 80 DM
Typical assemblies mounted to wall

TL = 2 x DW

1-3/16" (30)

1-3/16" (30)

CW

*DW = CW + 2-3/8" (60)

* If single door panel closes against jamb or only overlaps on one side, subtract 1-3/16" (30) from formula.
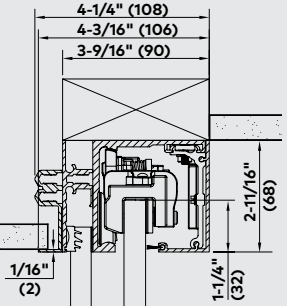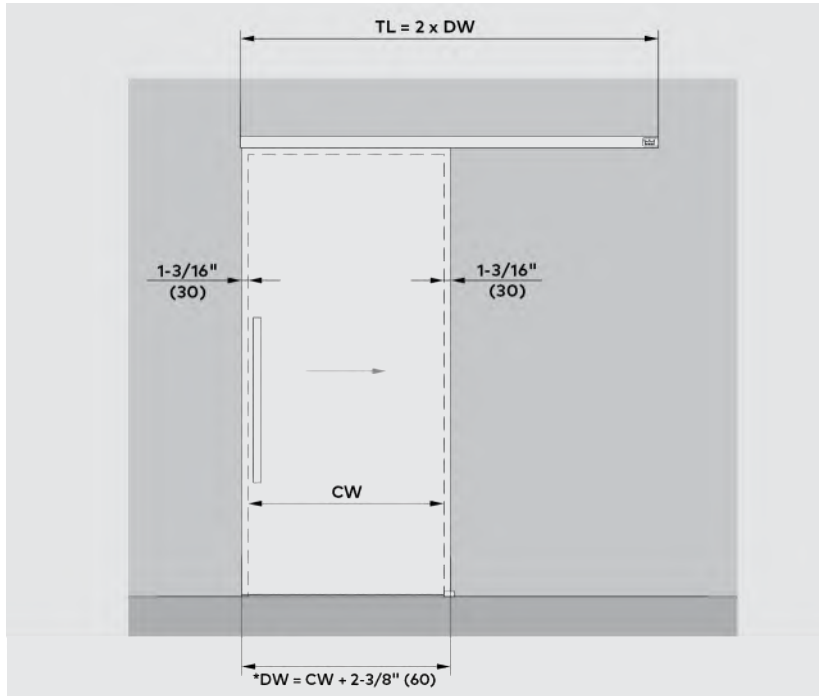
Mounted to wall (W)

15/16" (24)

2-7/8" (72)

X

2-3/4" (69)

1-13/16" (45)

1-1/4" (32)

Y

13/16" (20)

GH = CH + 7/8" (22) + X

TH

CH

DT

3/8" ±3/16" (10 ±5)

Features and data

For installation with one or two sliding door panels mounted to wall; for 5/16"–9/16" (8 –13.5) thick glass

Max weight of door panels

330 lb (150 kg) for Premium XL 150 DM/XL 150
176 lb (80 kg) for Premium XL 80 DM

Calculation of glass height

$GH = CH + 7/8" (22) + X$
(see drawing)
max 118-1/8" (3000)

Calculation of glass width

$DW = CW + 2-3/8" (60)$

DW =	Glass width
TL =	Track length
GH =	Glass height
TH =	Total height
CH =	Clear opening height
CW =	Clear opening width
DT =	Door (glass) thickness
Y =	2-7/8" (72) – 13/16" (20) – DT
X =	Bottom of track channel to top of clear opening

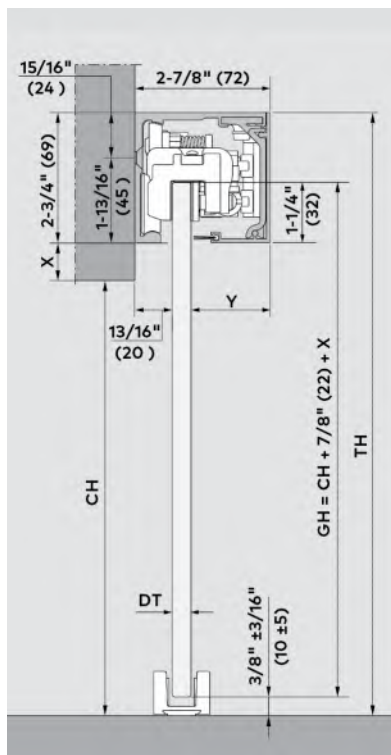|	XL 150 DM	XL 150	XL 80 DM
min DW	26" (660)	26" (660)	26" (660)
max DW	57" (1448)	57" (1448)	57" (1448)
max 2P DW	2 x 57" (1448)	2 x 57" (1448)	2 x 57" (1448)

Premium XL 150 DM / XL 150 / XL 80 DM
Typical assemblies mounted to ceiling
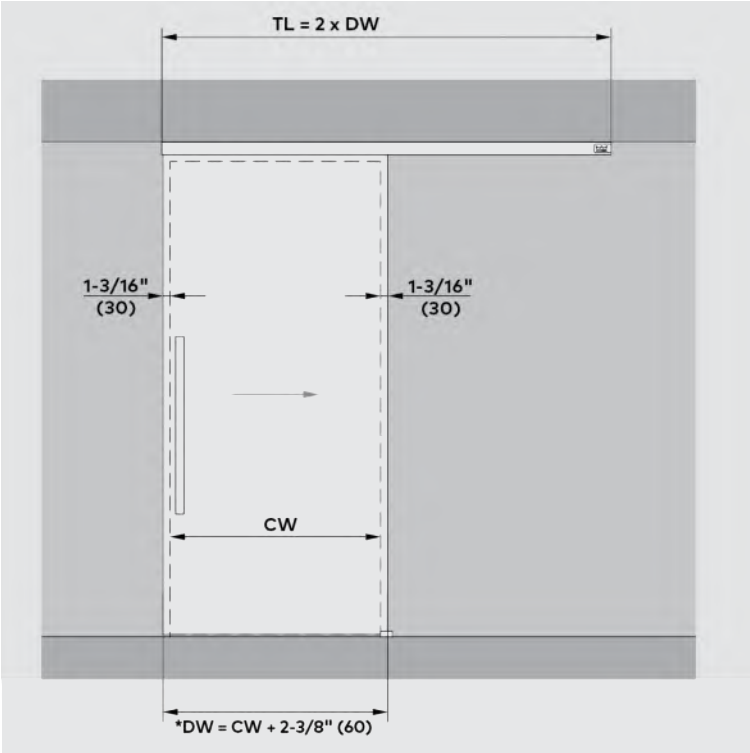
* If single door panel closes against jamb or only overlaps on one side, subtract 1-3/16" (30) from formula.

Mounted to ceiling (CE-S)
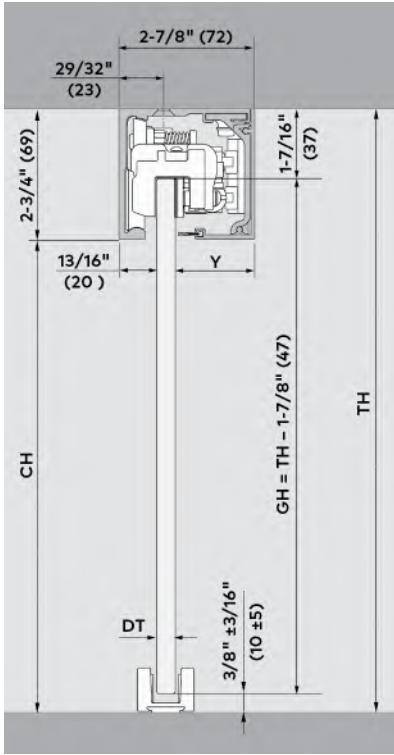
Features and data
For installation with one or two sliding door panels mounted to ceiling; for 5/16"–9/16" (8 –13.5) thick glass

Max weight of door panels
330 lb (150 kg) for
Premium XL 150 DM/XL 150
176 lb (80 kg) for
Premium XL 80 DM

Calculation of glass height (CE-S)
GH = TH – 1-7/8" (47)
max 118-1/8" (3000)

Calculation of glass width
DW = CW + 2-3/8" (60)

	XL 150 DM
min DW	26" (660)
max DW	57" (1448)
max 2P DW	2 x 57" (1448)

	XL 150
min DW	26" (660)
max DW	57" (1448)
max 2P DW	2 x 57" (1448)

	XL 80 DM
min DW	26" (660)
max DW	57" (1448)
max 2P DW	2 x 57" (1448)

DW	=	Glass width
TL	=	Track length
GH	=	Glass height
TH	=	Total height
CH	=	Clear opening height
CW	=	Clear opening width
DT	=	Door (glass) thickness
Y	=	2-7/8" (72) – 13/16" (20) – DT

Premium XL 150 DM / XL 150 / XL 80 DM
Typical assemblies mounted to or in ceiling with one sliding panel and fixed panel on one side

Features and data

For installation with one sliding door panel with fixed panel, mounted to ceiling or in ceiling; for 5/16"−9/16" (8 −13.5) thick glass

Max weight of door panels

330 lb (150 kg) for Premium XL 150 DM/XL 150
176 lb (80 kg) for Premium XL 80 DM

Calculation of glass width

DW = CW + 1-3/16" (30)

	XL 150 DM
min DW	26" (660)
max DW	57" (1448)
	XL 150
min DW	26" (660)
max DW	57" (1448)
	XL 80 DM
min DW	26" (660)
max DW	57" (1448)

Mounted to ceiling (CE-S)
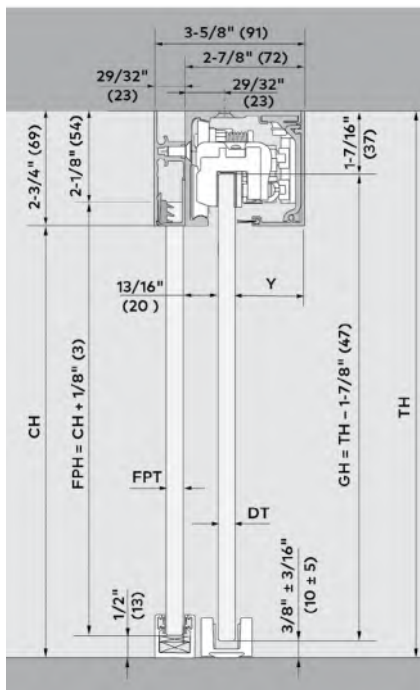
Mounted in ceiling (CE-R)

Calculation of glass height (CE-S/CE-R)

GH = TH − 1-7/8" (47)
FPH = CH + 1/8" (3)
max 118-1/8" (3000)

DW	=	Glass width
TL	=	Track length
GH	=	Glass height sliding door
FPH	=	Fixed panel (sidelite) height
TH	=	Total height
CH	=	Clear opening height
CW	=	Clear opening width
FPW	=	Fixed panel (sidelite) width
DT	=	Door (glass) thickness
FPT	=	Fixed panel (glass) thickness
Y	=	2-7/8" (72) − 13/16" (20) − DT

Premium XL 150 DM / XL 150 / XL 80 DM
Typical assemblies mounted to or in ceiling with one sliding panel and fixed panel on both sides

TL (if incl. endcaps, 2 × 3/32" [2])
TL = DW × 2 + FPW2 − 1-3/16" (30)

FPW2   FPW1

1-3/16" (30)   1-3/16" (30)

CW
DW = CW + 2-3/8" (60)
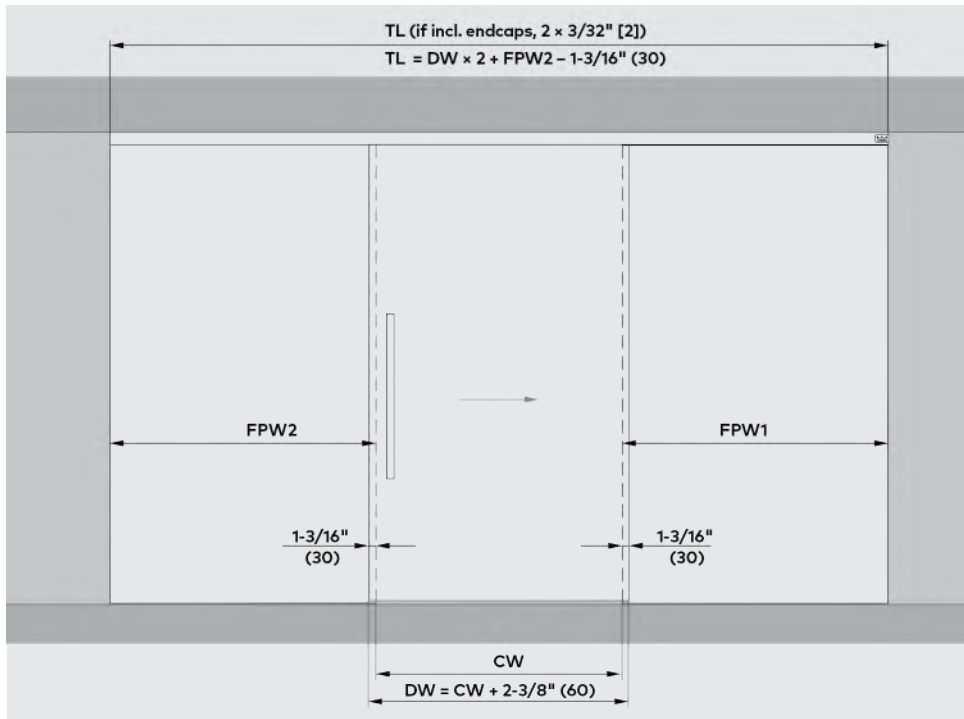
Features and data
For installation with one sliding door panel with fixed panel on both sides; for 5/16"–9/16" (8 –13.5) thick glass

Max weight of door panels
330 lb (150 kg) for Premium XL 150 DM/XL 150
176 lb (80 kg) for Premium XL 80 DM

Calculation of glass width
DW = CW + 2-3/8" (60)

	XL 150 DM
min DW	26" (660)
max DW	57" (1448)
	XL 150
min DW	26" (660)
max DW	57" (1448)
	XL 80 DM
min DW	26" (660)
max DW	57" (1448)

Mounted to ceiling (CE-S)

3-5/8" (91)
2-7/8" (72)
29/32" (23)
29/32" (23)
2-3/4" (69)
2-1/8" (54)
1-7/16" (37)
13/16" (20)
Y
CH
FPH = CH + 1/8" (3)
GH = TH − 1-7/8" (47)
TH
FPT
DT
1/2" (13)
3/8" ± 3/16" (10 ± 5)

Mounted in ceiling (CE-R)

3-5/8" (91)
2-7/8" (72)
29/32" (23)
2-3/4" (69)
2-1/8" (54)
Optional Drop Ceiling Profile
1-1/4" (31)
1-1/16" (27)
13/16" (20)
Y
CH
FPH = CH + 1/8" (3)
GH = TH − 1-7/8" (47)
TH
FPT
DT
1/2" (13)
3/8" ± 3/16" (10 ± 5)

Calculation of glass height (CE-S/CE-R)
GH = TH − 1-7/8" (47)
FPH = CH + 1/8" (3)
max 118-1/8" (3000)

DW	=	Glass width
TL	=	Track length
GH	=	Glass height sliding door
FPH	=	Fixed panel (sidelite) height
TH	=	Total height
CH	=	Clear opening height
CW	=	Clear opening width
FPW1	=	Fixed panel (sidelite) width 1
FPW2	=	Fixed panel (sidelite) width 2
DT	=	Door (glass) thickness
FPT	=	Fixed panel (glass) thickness
Y	=	2-7/8" (72) − 13/16" (20) − DT

Premium XL 150 DM / XL 150 / XL 80 DM
Typical assemblies mounted to or in ceiling with one sliding panel and fixed panels on both sides

Features and data

For installation with two sliding door panels with fixed panel on each side mounted to ceiling or in ceiling; for 5/16"–9/16" (8 –13.5) thick glass

Max weight of door panels
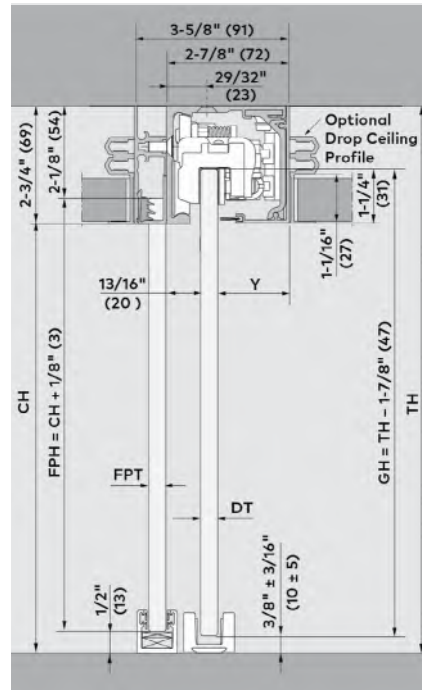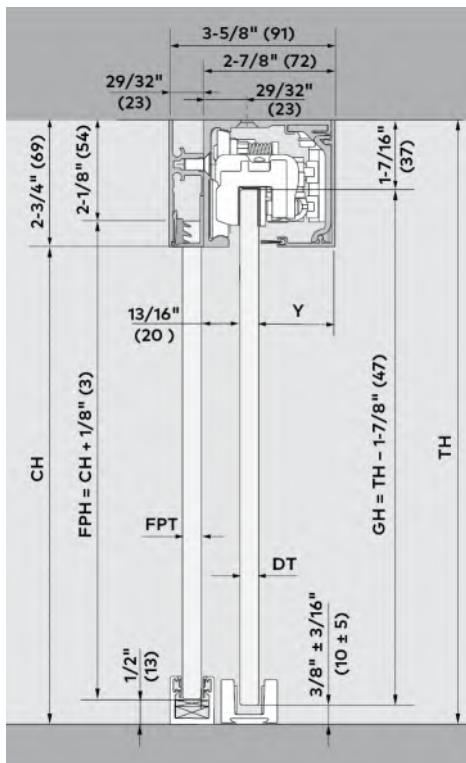
330 lb (150 kg) for Premium XL 150 DM/XL 150
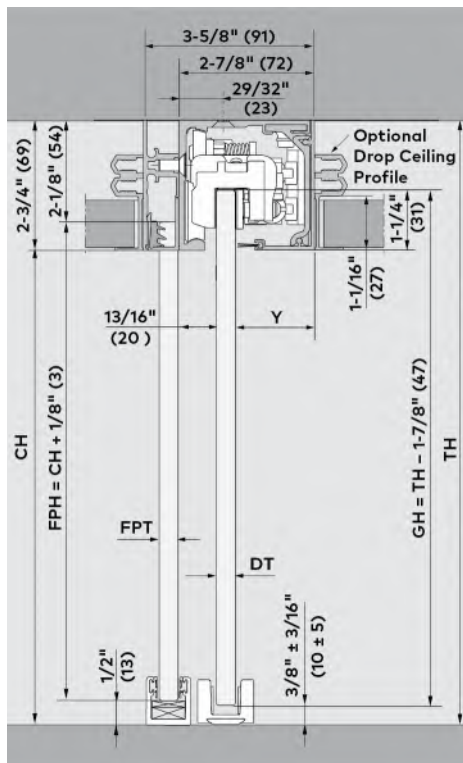176 lb (80 kg) for Premium XL 80 DM

Calculation of glass width

DW = CW ÷ 2 + 1-1/16" (27)

	XL 150 DM
min 2P DW	2 X 26" (660)
max 2P DW	2 x 57" (1448)

	XL 150
min 2P DW	2 x 26" (660)
max 2P DW	2 x 57" (1448)

	XL 80 DM
min 2P DW	2 x 26" (660)
max 2P DW	2 x 57" (1448)

Calculation of glass height (CE-S/CE-R)

GH = TH − 1-7/8" (47)
FPH = CH + 1/8" (3)
max 118-1/8" (3000)

DW	=	Glass width
TL	=	Track length
GH	=	Glass height sliding door
FPH	=	Fixed panel (sidelite) height
TH	=	Total height
CH	=	Clear opening height
CW	=	Clear opening width
FPW1	=	Fixed panel (sidelite) width 1
FPW2	=	Fixed panel (sidelite) width 2
DT	=	Door (glass) thickness
FPT	=	Fixed panel (glass) thickness
Y	=	2-7/8" (72) − 13/16" (20) − DT

Mounted to ceiling (CE-S)
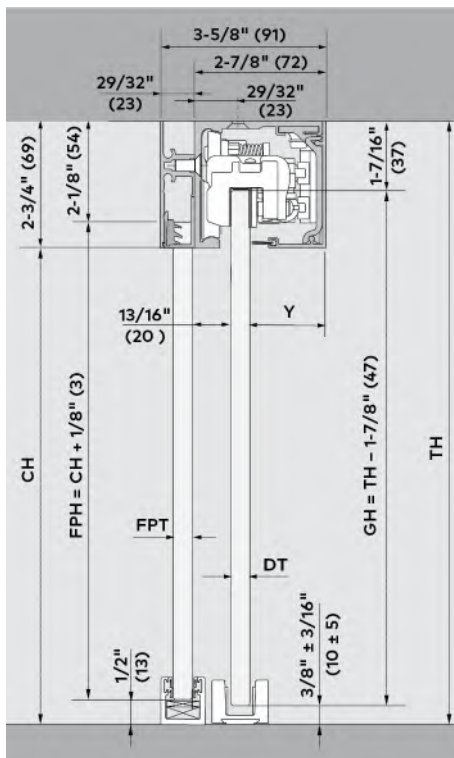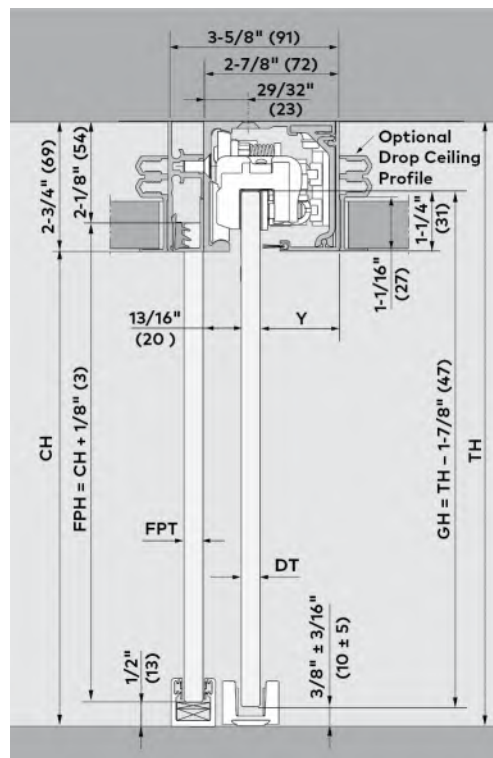
Mounted in ceiling (CE-R)

Premium XL 150 DM / XL 150 / XL 80 DM
Typical assemblies for wood doors
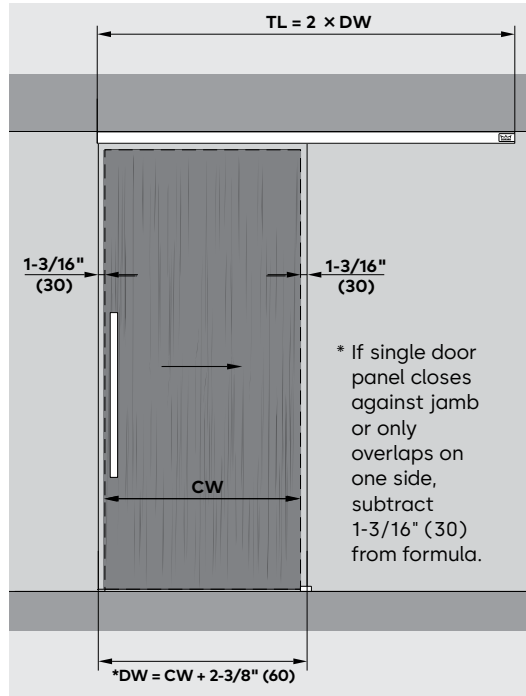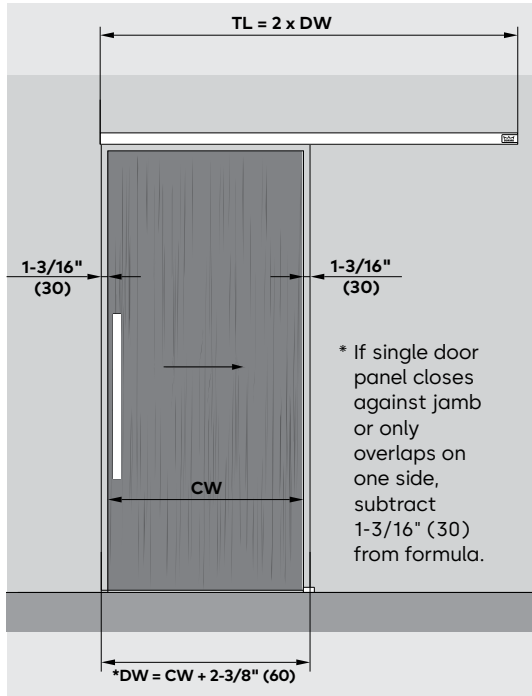
TL = 2 x DW

1-3/16" (30) 1-3/16" (30)

CW

* If single door panel closes against jamb or only overlaps on one side, subtract 1-3/16" (30) from formula.

*DW = CW + 2-3/8" (60)

TL = 2 × DW

1-3/16" (30) 1-3/16" (30)

CW

* If single door panel closes against jamb or only overlaps on one side, subtract 1-3/16" (30) from formula.

*DW = CW + 2-3/8" (60)

Features and data
For installation with wood door; mounted to wall or ceiling; for 1-1/8"– 1-31/32" (28 – 50) thick wood doors

Max weight of door panels
330 lb (150 kg) for
Premium XL 150 DM/XL 150
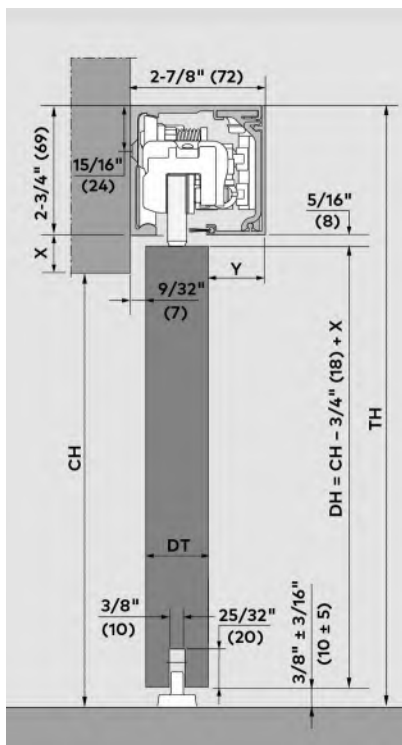176 lb (80 kg) for
Premium XL 80 DM

Calculation of door height
$DH = CH - 3/4" (18) + X$ (wall)
$DH = TH - 3-7/16" (87)$ (ceiling)
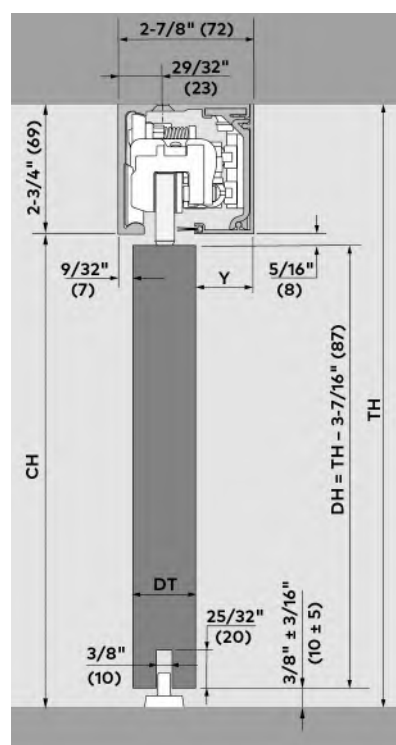max 118-1/8" (3000)

Calculation of door width
$DW = CW + 2-3/8" (60)$

DW =	Glass width
TL =	Track length
TH =	Total height
DH =	Door height
DT =	Door (wood) thickness
CH =	Clear opening height
CW =	Clear opening width
Y =	2-7/8" (72) – 5/16" (7) – DT
X =	Bottom of track channel to top of clear opening

Mounted to wakk (W)

2-7/8" (72)
2-3/4" (69)
15/16" (24)
X
9/32" (7)
Y
5/16" (8)
CH
DT
DH = CH – 3/4" (18) + X
TH
3/8" (10)
25/32" (20)
3/8" ± 3/16" (10 ± 5)

Mounted in wall or ceiling (CE-S / CE-R)

2-7/8" (72)
29/32" (23)
2-3/4" (69)
9/32" (7)
Y
5/16" (8)
CH
DT
DH = TH – 3-7/16" (87)
TH
9/32" (7)
25/32" (20)
3/8" (10)
3/8" ± 3/16" (10 ± 5)

	XL 150 DM
min DW	26" (660)
max DW	60" (1524)
max 2P DW	2 x 60" (1524)

	XL 150
min DW	26" (660)
max DW	60" (1524)
max 2P DW	2 x 60" (1524)

	XL 80 DM
min DW	26" (660)
max DW	60" (1524)
max 2P DW	2 x 60" (1524)

Premium XL 150 DM / XL 80 DM
Typical assemblies mounted on glass with one sliding panel
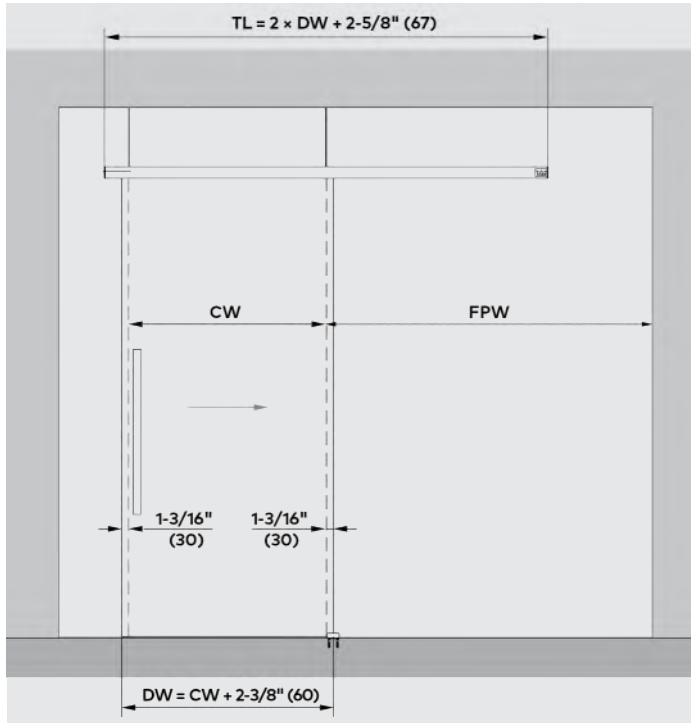
Note: To ensure a correct and aligned mounting of the track rail, a full supporting fixed panel must be installed.

Features and data

For installation with one sliding panel mounted on glass; for 5/16"–9/16" (8 –13.5) thick glass

Max weight of door panels

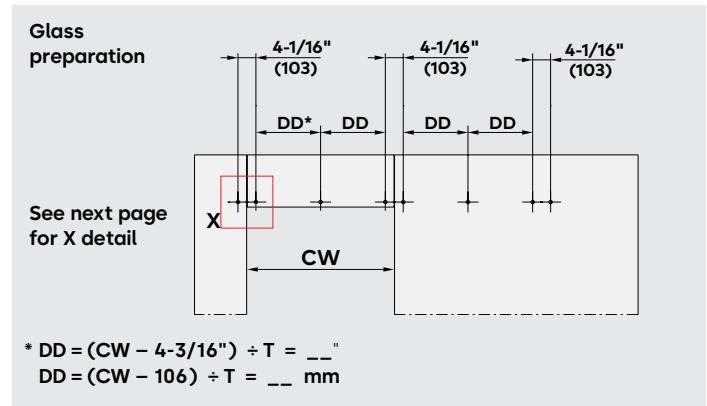330 lb (150 kg) for Premium XL 150 DM
176 lb (80 kg) for Premium XL 80 DM

Calculation of glass height

GH = CH + 7/8" (22)
max 118-1/8" (3000)

Calculation of glass width

DW = CW + 2-3/8" (60)
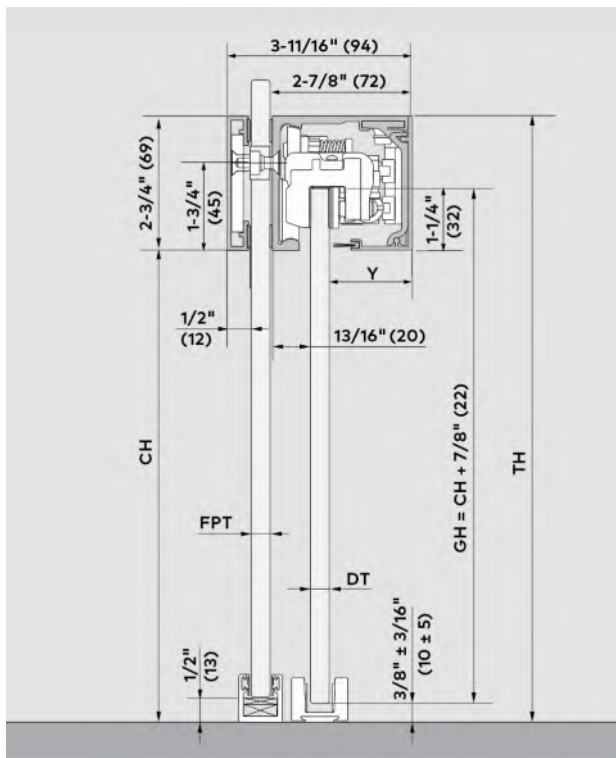
	XL 150 DM
min DW	26" (660)
min CW	23-5/8" (600)
max DW	57" (1448)
max CW	54-3/4" (1390)
	XL 80 DM
min DW	26" (660)
min CW	26-5/8" (600)
max DW	57" (1448)
max CW	54-3/4" (1390)

Glass preparation

See next page for X detail

* **DD = (CW − 4-3/16") ÷ T = __ "**
DD = (CW − 106) ÷ T = __ mm

Calculation example

DD = (31-1/2"− 4-3/16") ÷ 2 = 13-11/16"
DD = (800 − 106) ÷ 2 = 347

T = Formula Value
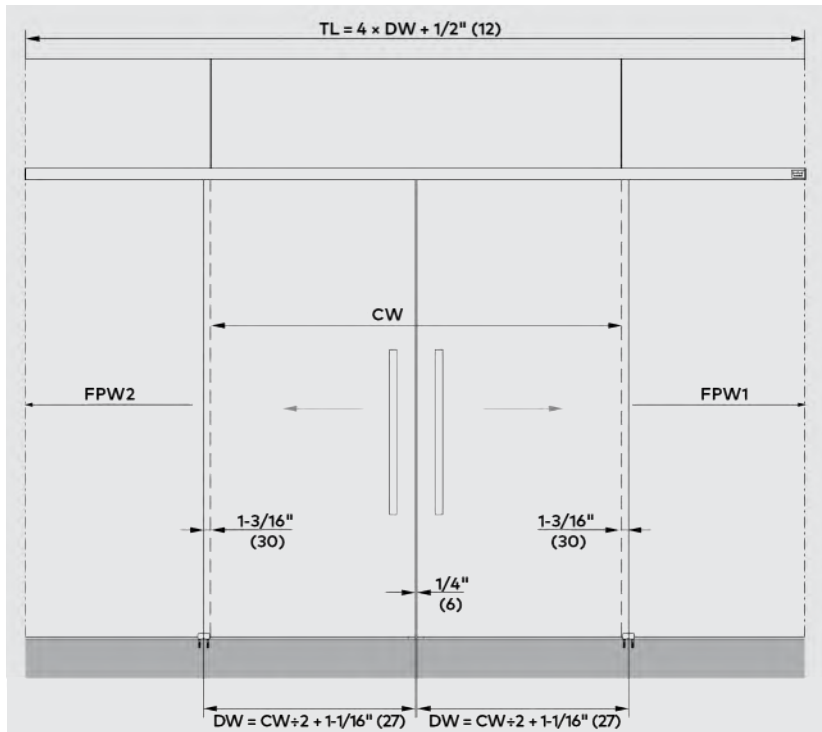**Z** = Quantity of holes to drill
The total quantity of holes (Z) depends on clear opening width (CW) and determines the final drilling distance (DD).

- Use the equation to determine (DD) drilling distance (hole spacing) at defined (DD) locations.
- Provide (CW) clear opening width to determine value for (T).
- Insert value for (T) to formula equation to calculate (DD) drilling distance.

				T	**Z**
CW	≥	23-5/8"	(600)	2	8
	≤	31-1/2"	(800)		
CW	>	31-1/2"	(800)	3	10
	≤	39-3/8"	(1000)		
CW	>	39-3/8"	(1000)	4	12
	≤	47-1/4"	(1200)		
CW	>	47-1/4"	(1200)	5	14
	≤	54-5/8"	(1388)		

Premium XL 150 DM / XL 150 / XL 80 DM
Typical assemblies mounted on glass with two sliding panels

Refer to Elevation drawing on previous page.

* DD = (CW − 4-3/16" − 6-11/16") ÷ T = __"
  DD = (CW − 106 − 170) ÷ T = __ mm

DW = Glass width
Z = Quantity of drillings
TL = Track length
DD = Drilling distance
TH = Total height
CH = Clear opening height
CW = Clear opening width
GH = Door (glass) height
FPW = Fixed panel (glass) width
T = Set formula value derived from CW
DT = Door (glass) thickness 3/8" − 3/4" (10 − 19)
FPT = Fixed panel (sidelite) thickness
Y = 2-7/8" (72) − 13/16" (20) − DT

X detail

Features and data

For installation with two sliding panels mounted on glass; for 5/16"−9/16" (8 −13.5)thick glass

Max weight of door panels
330 lb (150 kg) for
Premium XL 150 DM
176 lb (80 kg) for
Premium XL 80 DM

Calculation of glass height
GH = CH + 7/8" (22)
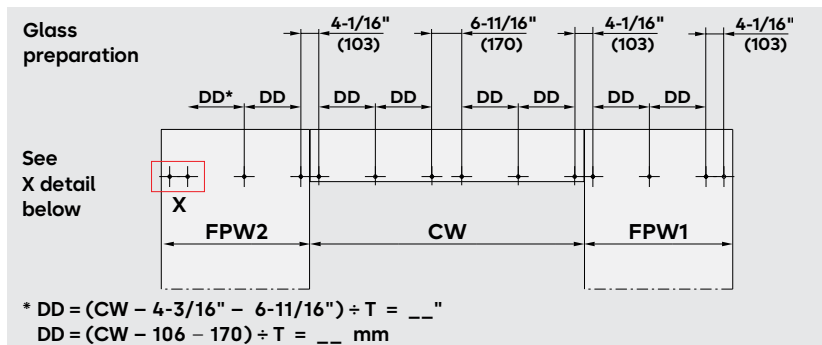max 118-1/8" (3000)

Calculation of glass width
DW = CW ÷ 2 + 1-1/16" (27)

	XL 150 DM	XL 80 DM
min DW	26" (660)	26" (660)
min CW	49-13/16 (1266)	49-13/16 (1266)
max DW	57" (1448)	57"
max CW	112-1/16" (2846)	112-1/16" (2846)

Calculation example
DD = (55-1/8" − 4-3/16"− 6-11/16) ÷ 4 = 11-1/16"
DD = (1400 − 106 − 170) ÷ 4 = 281

					T	Z
CW	≥	47-1/4"	(1200)		4	14
	≤	59-1/16"	(1500)			
CW	>	59-1/16"	(1500)		6	18
	≤	78-3/4"	(2000)			
CW	>	78-3/4"	(2000)		8	22
	≤	112-1/16"	(2846)			

T = Formula Value
Z = Quantity of holes to drill
The total quantity of holes (Z) depends on clear opening width (CW) and determines the final drilling distance (DD).

- Use the equation to determine (DD) drilling distance (hole spacing) at defined (DD) locations.
- Provide (CW) clear opening width to determine value for (T).
- Insert value for (T) to formula equation to calculate (DD) drilling distance.

Premium XL 150 DM / XL 150 / XL 80 DM
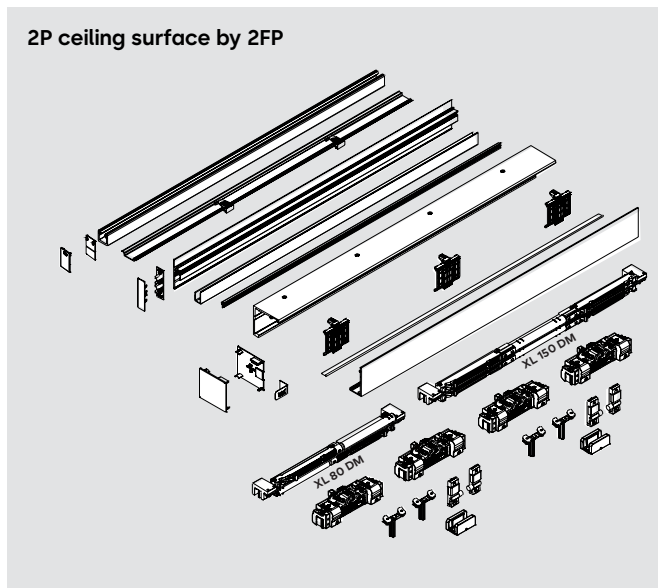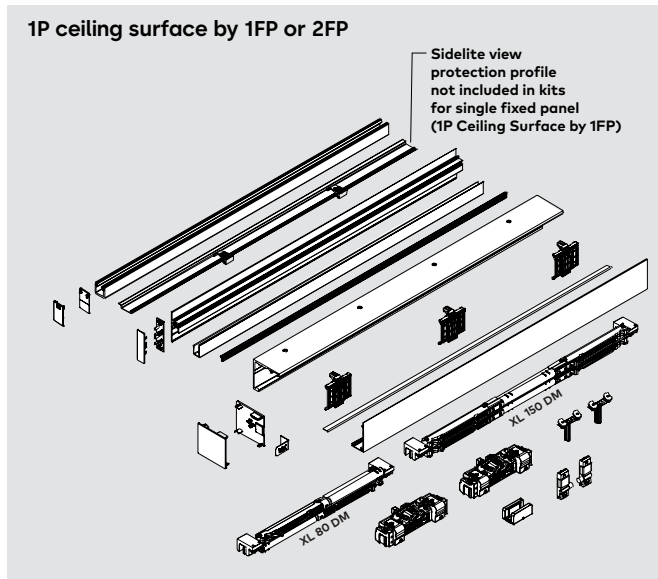## Sliding door sets with one sliding panel and one or two fixed panels, ceiling surface installation

Incl. track/endcaps, cover, cover clips, gasket, end stops, roller carriers, DORMOTION[1] , DM start/stops[1], floor guide, sidelite profile and gasket, sidelite filler profile, sidelite endcaps, U-Channel and gasket, and sidelite mounting hardware. (Sidelite view profile included if appropriate.)

Complete accessories for 5/16"–9/16" (8 –13.5) thick glass.

XL 150 DM / XL 150 max 330 lb (150 kg).
XL 80 DM max 176 lb (80 kg).

[1] XL 150 set does not include DORMOTION or DM start/stops.

1P ceiling surface by 1FP or 2FP

Sidelite view protection profile not included in kits for single fixed panel (1P Ceiling Surface by 1FP)

XL 150 DM
XL 80 DM

2P ceiling surface by 2FP

XL 150 DM
XL 80 DM

1P ceiling surface by 1FP – Set for ceiling surface installation with one sliding panel and one fixed panel.

	Min panel width	Min clear opening width	Max panel width[2]	Max clear opening width[2]	Max track length[2]	Ref. No.
1P XL 150 DM CE-S 1FP						
MTO	26" (660)	23-5/8" (600)	57" (1448)	54-5/8" (1388)	157-1/2" (4000)	**236.589**
1P XL 150 CE-S 1FP						
MTO	26" (660)	23-5/8" (600)	57" (1448)	54-5/8" (1388)	157-1/2" (4000)	**236.588**
1P XL 80 DM CE-S 1FP						
MTO	26" (660)	23-5/8" (600)	57" (1448)	54-5/8" (1388)	157-1/2" (4000)	**236.583**

1P ceiling surface by 2FP – Set for ceiling surface installation with one sliding panel and two fixed panels.

	Min panel width	Min clear opening width	Max panel width[2]	Max clear opening width[2]	Max track length[2]	Ref. No.
1P XL 150 DM CE-S 2FP						
MTO	26" (660)	26-5/8" (600)	57" (1448)	54-5/8" (1388)	157-1/2" (4000)	**236.591**
1P XL 150 CE-S 2FP						
MTO	26" (660)	23-5/8" (600)	57" (1448)	54-3/8" (1381)	157-1/2" (4000)	**236.590**
1P XL 80 DM CE-S 2FP						
MTO	26" (660)	23-5/8" (600)	57" (1448)	54-3/8" (1381)	157-1/2" (4000)	**236.585**

2P ceiling surface by 2FP – Set for ceiling surface installation with two sliding panels and two fixed panels.

	Min panel width	Min clear opening width	Max panel width[2]	Max clear opening width[2]	Max track length[2]	Ref. No.
2P XL 150 DM CE-S 2FP						
MTO	26" (660)	49-13/16" (1266)	57" (1448)	111-7/8" (2842)	157-1/2" (4000)	**236.587**
2P XL 150 CE-S 2FP						
MTO	26" (660)	49-13/16" (1266)	57" (1448)	111-7/8" (2842)	157-1/2" (4000)	**236.592**
2P XL 80 DM CE-S 2FP						
MTO	26" (660)	49-13/16" (1266)	57" (1448)	111-7/8" (2842)	157-1/2" (4000)	**236.587**

Note: Refer to Component parts section for wood door adapter options.

[2] For 157-1/2" track lengths, only 154" are useable.
Max wood door sizes can be increased by 3" (76), MTO only.

Premium XL 150 DM / XL 150 / XL 80 DM
Sliding door sets with one sliding panel and one or two fixed panels, ceiling surface installation
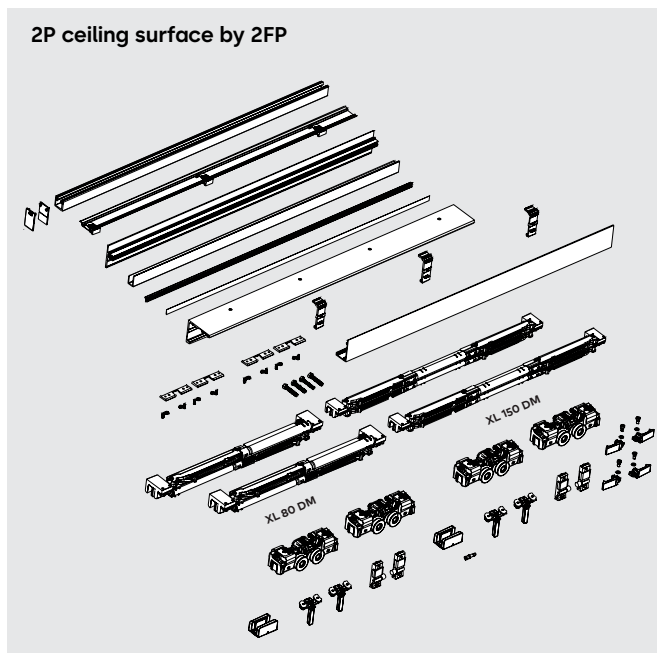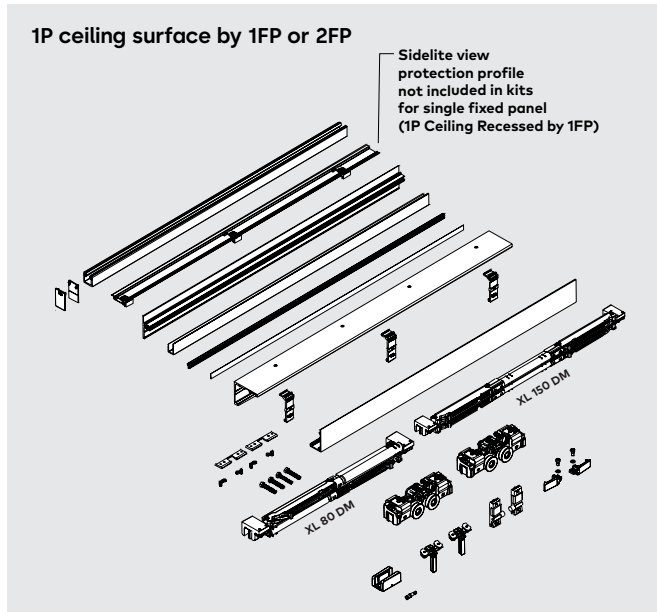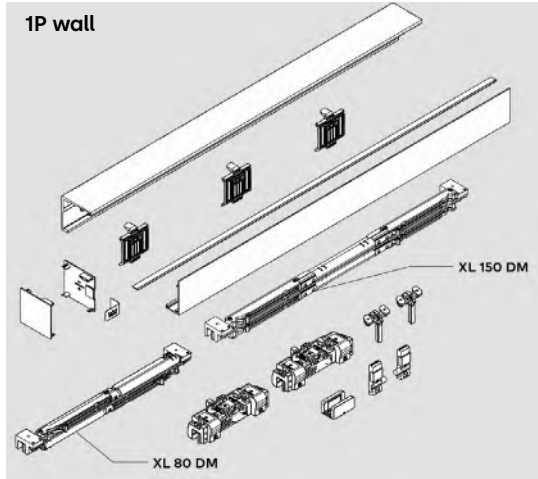
Incl. track/endcaps, cover, cover clips, gasket, end stops, roller carriers, DORMOTION[1], DM start/stops[1], floor guide, sidelite profile and gasket, sidelite filler profile, sidelite endcaps, U-Channel and gasket, and sidelite mounting hardware. (Sidelite view profile included if appropriate.)

Complete accessories for 5/16"–9/16" (8 –13.5) thick glass.

XL 150 DM / XL 150 max 330 lb (150 kg).
XL 80 DM max 176 lb (80 kg).

[1] XL 150 set does not include DORMOTION or DM start/stops.

1P ceiling surface by 1FP or 2FP

Sidelite view protection profile not included in kits for single fixed panel (1P Ceiling Recessed by 1FP)

XL 150 DM
XL 80 DM

2P ceiling surface by 2FP

XL 150 DM
XL 80 DM

Note: Refer to Component parts section for wood door adapter options.

1P ceiling surface by 1FP – Set for ceiling surface installation with one sliding panel and one fixed panel.

	Min panel width	Min clear opening width	Max panel width[2]	Max clear opening width[2]	Max track length[2]	Ref. No.
1P XL 150 DM CE-R 1FP						
MTO	26" (660)	23-5/8" (600)	57" (1448)	54-5/8" (1388)	157-1/2" (4000)	**236.595**
1P XL 150 CE-R 1FP						
MTO	26" (660)	23-5/8" (600)	57" (1448)	54-5/8" (1388)	157-1/2" (4000)	**236.594**
1P XL 80 DM CE-R 1FP						
MTO	26" (660)	23-5/8" (600)	57" (1448)	54-5/8" (1388)	157-1/2" (4000)	**236.582**

1P ceiling surface by 2FP – Set for ceiling surface installation with one sliding panel and two fixed panels.

	Min panel width	Min clear opening width	Max panel width[2]	Max clear opening width[2]	Max track length[2]	Ref. No.
1P XL 150 DM CE-R 2FP						
MTO	26" (660)	26-5/8" (600)	57" (1448)	54-5/8" (1388)	157-1/2" (4000)	**236.597**
1P XL 150 CE-R 2FP						
MTO	26" (660)	23-5/8" (600)	57" (1448)	54-3/8" (1381)	157-1/2" (4000)	**236.596**
1P XL 80 DM CE-R 2FP						
MTO	26" (660)	23-5/8" (600)	57" (1448)	54-3/8" (1381)	157-1/2" (4000)	**236.584**

2P ceiling surface by 2FP – Set for ceiling surface installation with two sliding panels and two fixed panels.

	Min panel width	Min clear opening width	Max panel width[2]	Max clear opening width[2]	Max track length[2]	Ref. No.
2P XL 150 DM CE-R 2FP						
MTO	26" (660)	49-13/16" (1266)	57" (1448)	111-7/8" (2842)	157-1/2" (4000)	**236.599**
2P XL 150 CE-R 2FP						
MTO	26" (660)	49-13/16" (1266)	57" (1448)	111-7/8" (2842)	157-1/2" (4000)	**236.598**
2P XL 80 DM CE-R 2FP						
MTO	26" (660)	49-13/16" (1266)	57" (1448)	111-7/8" (2842)	157-1/2" (4000)	**236.586**

[2] For 157-1/2" track lengths, only 154" are useable.
  Max wood door sizes can be increased by 3" (76), MTO only.

Premium XL 150 DM / XL 150 / XL 80 DM
Sliding door sets with one sliding panel

Incl. track/endcaps, cover, cover clips, gasket, end stops, roller carriers, DORMOTION[1] , DM start/stops[1], and floor guide. Complete accessories for 5/16"–9/16" (8 –13.5) thick glass.
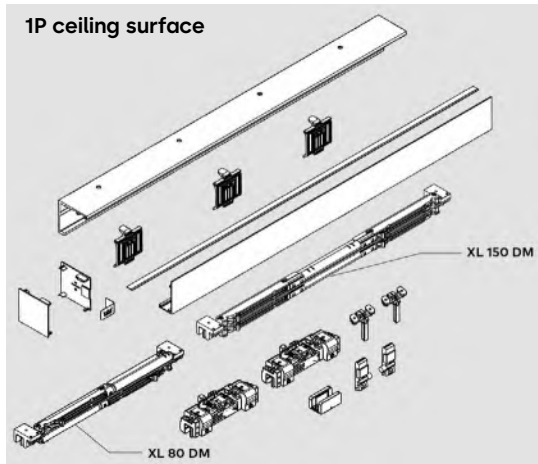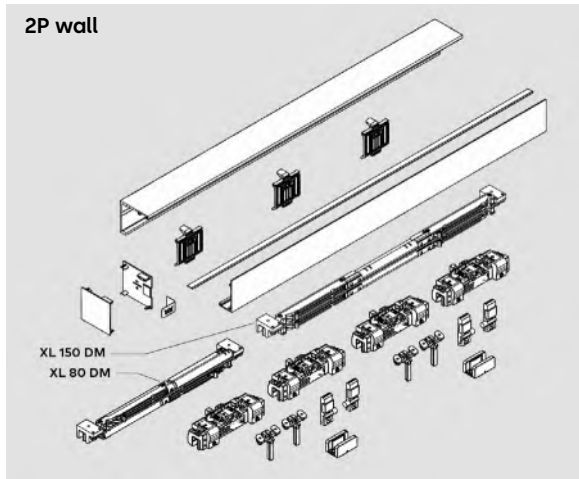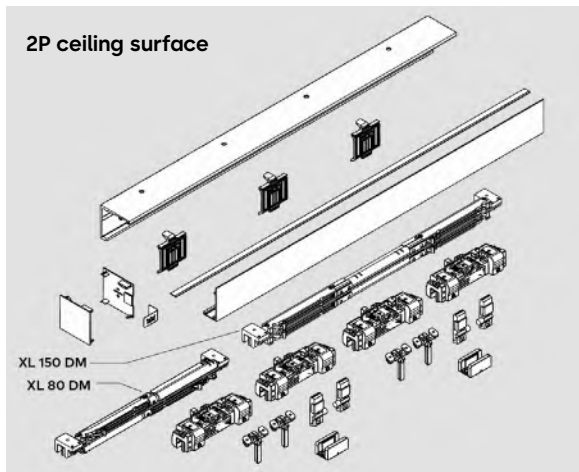
XL 150 DM / XL 150 max 330 lb (150 kg).
XL 80 DM max 176 lb (80 kg).

[1] XL 150 set does not include DORMOTION or DM start/stops.

1P wall

XL 150 DM
XL 80 DM

1P wall installation – Set for wall installation with one sliding panel.

	Min panel width	Min clear opening width	Max panel width[2]	Max clear opening width[2]	Max track length[2]	Ref. No.
1P XL 150 DM W						
STK	26" (660)	23-5/8" (600)	56-11/16" (1440)	54-5/16" (1380)	113-3/8" (2880)	**836.510**
MTO	26" (660)	23-5/8" (600)	57" (1448)	54-5/8" (1388)	157-1/2" (4000)	**836.521**
1P XL 150 W						
STK	26" (660)	23-5/8" (600)	56-11/16" (1440)	54-5/16" (1380)	113-3/8" (2880)	**236.510**
MTO	26" (660)	23-5/8" (600)	57" (1448)	54-5/8" (1388)	157-1/2" (4000)	**236.521**
1P XL 80 DM W						
STK	26" (660)	23-5/8" (600)	56-11/16" (1440)	54-5/16" (1380)	113-3/8" (2880)	**836.502**
MTO	26" (660)	23-5/8" (600)	57" (1448)	54-5/8" (1388)	157-1/2" (4000)	**836.520**

1P ceiling surface

XL 150 DM
XL 80 DM

1P ceiling surface installation – Set for ceiling surface installation with one sliding panel.

	Min panel width	Min clear opening width	Max panel width[2]	Max clear opening width[2]	Max track length[2]	Ref. No.
1P XL 150 DM CE-S						
STK	26" (660)	23-5/8" (600)	56-11/16" (1440)	54-5/16" (1380)	113-3/8" (2880)	**836.512**
MTO	26" (660)	23-5/8" (600)	57" (1448)	54-5/8" (1388)	157-1/2" (4000)	**836.523**
1P XL 150 CE-S						
STK	26" (660)	23-5/8" (600)	56-11/16" (1440)	54-5/16" (1380)	113-3/8" (2880)	**236.512**
MTO	26" (660)	23-5/8" (600)	57" (1448)	54-5/8" (1388)	157-1/2" (4000)	**236.523**
1P XL 80 DM CE-S						
STK	26" (660)	23-5/8" (600)	56-11/16" (1440)	54-5/16" (1380)	113-3/8" (2880)	**836.505**
MTO	26" (660)	23-5/8" (600)	57" (1448)	54-5/8" (1388)	157-1/2" (4000)	**836.522**
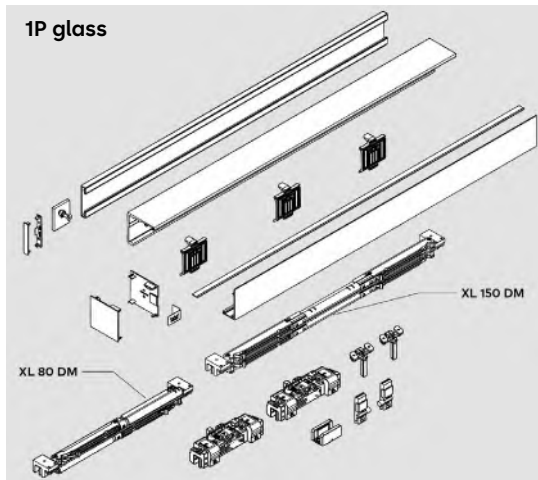
1P glass

XL 150 DM
XL 80 DM

1P glass installation – Set for glass installation with one sliding panel.

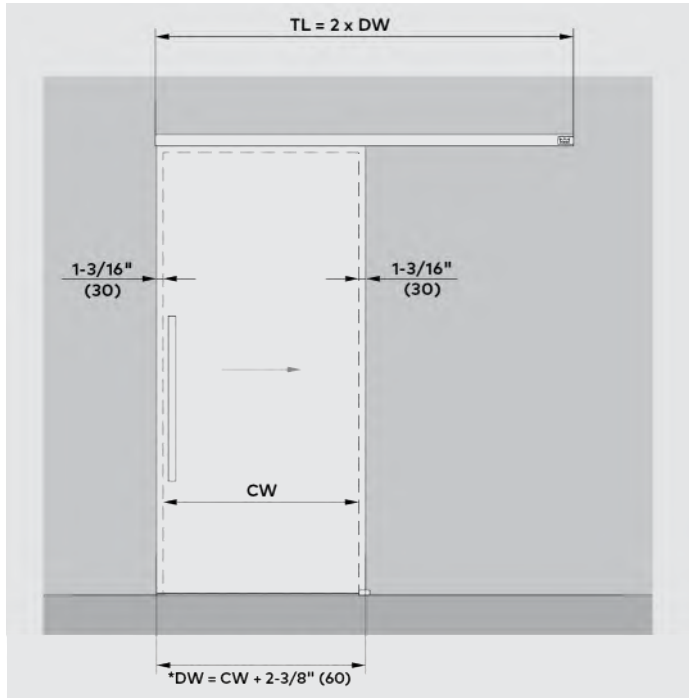|	Min panel width	Min clear opening width	Max panel width[2]	Max clear opening width[2]	Max track length[2]	Ref. No.
1P XL 150 DM G						
MTO	26" (660)	23-5/8" (600)	57" (1448)	54-5/8" (1388)	157-1/2" (4000)	**836.525**
1P XL 80 DM G						
MTO	26" (660)	23-5/8" (600)	57" (1448)	54-5/8" (1388)	157-1/2" (4000)	**836.524**

Note: Refer to Component parts section for wood door adapter options.

[2] For 157-1/2" track lengths, only 154" are useable.
Max wood door sizes can be increased by 3" (76), MTO only.

Premium XL 150 DM / XL 150 / XL 80 DM
Sliding door sets with two sliding panels

Incl. track/endcaps, cover, cover clips, gasket, end stops, roller carriers, DORMOTION[1] , DM start/stops[1], and floor guide. Complete accessories for 5/16"–9/16" (8 –13.5) thick glass.

XL 150 DM / XL 150 max 330 lb (150 kg).
XL 80 DM max 176 lb (80 kg).

[1] XL 150 set does not include DORMOTION or DM start/stops.

2P wall

XL 150 DM
XL 80 DM

2P wall installation – Set for wall installation with two sliding panels.

	Min panel width	Min clear opening width	Max panel width[2]	Max clear opening width[2]	Max track length[2]	Ref. No.
2P XL 150 DM W						
MTO	26" (660)	49-13/16" (1266)	57" (1448)	111-7/8" (2842)	157-1/2" (4000)	**836.527**
2P XL 150 W						
MTO	26" (660)	49-13/16" (1266)	57" (1448)	111-7/8" (2842)	157-1/2" (4000)	**236.527**
2P XL 80 DM W						
MTO	26" (660)	49-13/16" (1266)	57" (1448)	111-7/8" (2842)	157-1/2" (4000)	**836.526**

2P ceiling surface

XL 150 DM
XL 80 DM

2P ceiling surface installation – Set for ceiling surface installation with two sliding panels.

	Min panel width	Min clear opening width	Max panel width[2]	Max clear opening width[2]	Max track length[2]	Ref. No.
2P XL 150 DM CE-S						
MTO	26" (660)	49-13/16" (1266)	57" (1448)	111-7/8" (2842)	157-1/2" (4000)	**836.529**
2P XL 150 CE-S						
MTO	26" (660)	49-13/16" (1266)	57" (1448)	111-7/8" (2842)	157-1/2" (4000)	**236.529**
2P XL 80 DM CE-S						
MTO	26" (660)	49-13/16" (1266)	57" (1448)	111-7/8" (2842)	157-1/2" (4000)	**836.528**
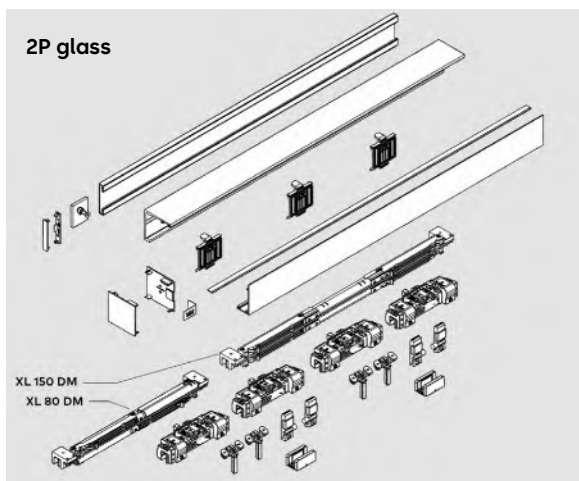
2P glass

XL 150 DM
XL 80 DM

2P glass installation – Set for glass installation with two sliding panels.

	Min panel width	Min clear opening width	Max panel width[2]	Max clear opening width[2]	Max track length[2]	Ref. No.
2P XL 150 DM G						
MTO	26" (660)	49-13/16" (1266)	57" (1448)	111-7/8" (2842)	157-1/2" (4000)	**836.531**
2P XL 80 DM G						
MTO	26" (660)	49-13/16" (1266)	57" (1448)	111-7/8" (2842)	157-1/2" (4000)	**836.530**

Note: Refer to Component parts section for wood door adapter options.

[2] For 157-1/2" track lengths, only 154" are useable.
   Max wood door sizes can be increased by 3" (76), MTO only.

Premium XL 120 Self-Closing (SC)
Typical assemblies mounted to wall

Note: XL 120 SC includes DORMOTION standard in the closing cycle, optional (DMSC) for opening cycle.

Features and data

For installation with one or two sliding door panels mounted to wall; for 5/16"–9/16" (8 –13.5) thick glass

Max weight of door panels

264 lb (120 kg)

Calculation of glass height

GH = CH + 7/8" (22) + X (see drawing)

max 118-1/8" (3000)

Calculation of glass width

DW = CW + 2-3/8" (60)

* If single door panel closes against jamb or only overlaps on one side, subtract 1-3/16" (30) from formula.

	XL 120 SC
min DW	33-1/2"(850)
max DW	57" (1448)
max 2P DW	2 x 57" (1448)

Mounted to wall (W)

DW	=	Glass width
TL	=	Track length
GH	=	Glass height
TH	=	Total height
CH	=	Clear opening height
CW	=	Clear opening width
DT	=	Door (glass) thickness
Y	=	3-15/16" (100) – 13/16" (20) – DT
X	=	Bottom of track channel to top of clear opening

Premium XL 120 Self-Closing (SC)
Typical assemblies mounted to ceiling

Note: XL 120 SC includes DORMOTION standard in the closing cycle, optional (DMSC) for opening cycle.
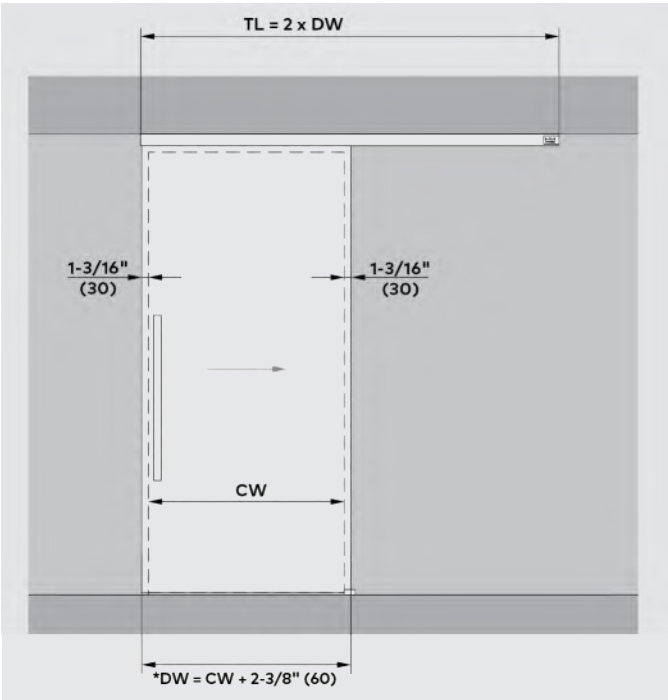
Features and data
For installation with one or two sliding door panels mounted to wall; for 5/16"–9/16" (8 –13.5) thick glass

Max weight of door panels
264 lb (120 kg)

Calculation of glass height
GH = TH + 1-7/8" (47) + X
max 118-1/8" (3000)

Calculation of glass width
DW = CW + 2-3/8" (60)

* If single door panel closes against jamb or only overlaps on one side, subtract 1-3/16" (30) from formula.

	XL 120 SC
min DW	33-1/2"(850)
max DW	57" (1448)
max 2P DW	2 x 57" (1448)

DW = Glass width
TL = Track length
GH = Glass height
TH = Total height
CH = Clear opening height
CW = Clear opening width
DT = Door (glass) thickness
Y = 3-15/16" (100) – 13/16" (20) – DT

Mounted to ceiling (CE-S)

Premium XL 120 Self-Closing (SC)
Typical assemblies mounted to or in ceiling with one sliding panel and fixed panel on one side

Note: XL 120 SC includes DORMOTION standard in the closing cycle, optional (DMSC) for opening cycle.
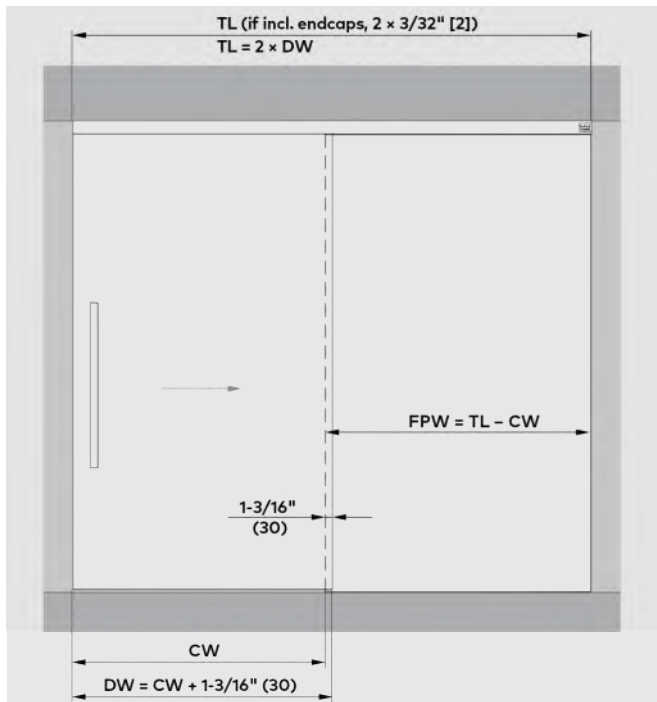
Features and data

For installation with one sliding door panel and one fixed panel, mounted to ceiling or in ceiling; for 5/16"–9/16" (8 –13.5) thick glass.

Max weight of door panels
264 lb (120 kg)

Calculation of glass width
DW = CW + 1-3/16" (30)

	XL 120 SC
min DW	33-1/2"(850)
max DW	57" (1448)

Calculation of glass height
(CE-S/CE-R)
GH = TH − 1-7/8" (47)
FPH = CH + 1/8" (3)
max 118-1/8" (3000)

DW	=	Glass width
TL	=	Track length
GH	=	Glass height sliding door
FPH	=	Fixed panel (sidelite) height
TH	=	Total height
CH	=	Clear opening height
CW	=	Clear opening width
FPW	=	Fixed panel (sidelite) width
DT	=	Door (glass) thickness
FPT	=	Fixed panel (glass) thickness
Y	=	3-15/16" (100) − 13/16" (20) − DT

Mounted to ceiling (CE-S)

Mounted in ceiling (CE-R)

Premium XL 120 Self-Closing (SC)
Typical assemblies mounted to or in ceiling with one sliding panel and fixed panels on both sides

TL (if incl. endcaps, 2 × 3/32" [2])
TL = DW × 2 + FPW2 – 1-3/16" (30)

FPW2   FPW1

1-3/16" (30)   1-3/16" (30)

CW
DW = CW + 2-3/8" (60)
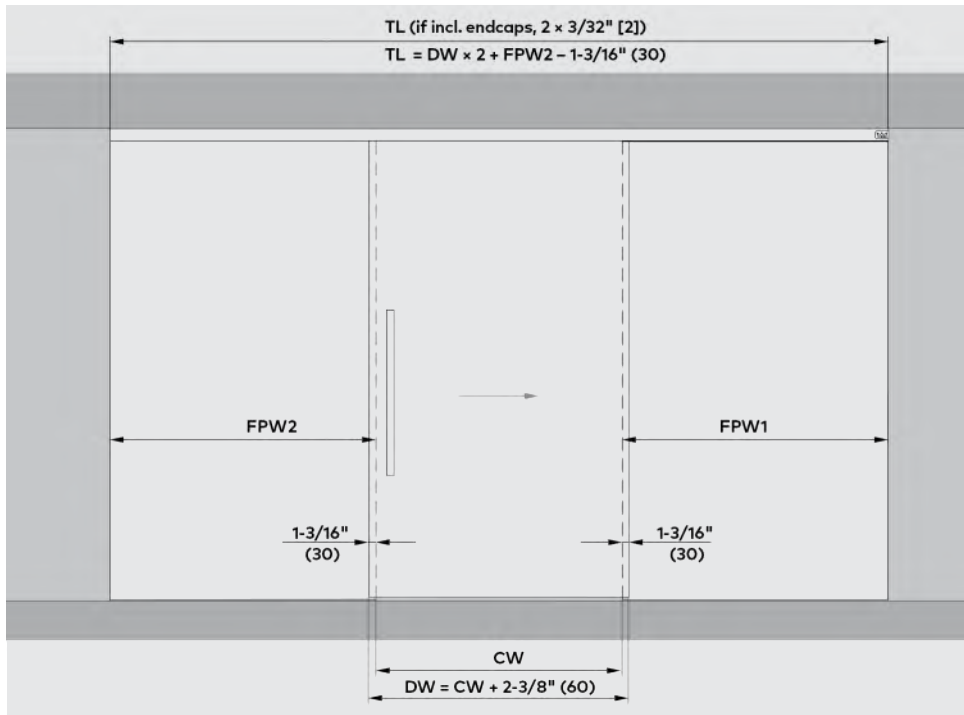
Note: XL 120 SC includes DORMOTION standard in the closing cycle, optional (DMSC) for opening cycle.

Features and data
For installation with one sliding door panel and fixed panels on both sides, mounted to ceiling or in drop ceiling; for 5/16"–9/16" (8 –13.5) thick glass.

Max weight of door panels
264 lb (120 kg)

Calculation of glass width
DW = CW + 2-3/8" (60)

	XL 120 SC
min DW	33-1/2" (850)
max DW	57" (1448)

Mounted to ceiling (CE-S)

4-11/16" (119)
3-15/16" (100)
29/32" (23)
2-3/4" (69)
2-1/8" (54)
1-7/16" (37)
13/16" (20)
Y
CH
FHP = CH + 1/8" (3)
GH = TH – 1-7/8" (47)
TH
FPT
DT
1/2" (13)
3/8" ±3/16" (10 ±5)

Mounted in ceiling (CE-R)

4-11/16" (119)
3-15/16" (100)
29/32" (23)
Optional Drop Ceiling Profile
2-3/4" (69)
2-1/8" (54)
1-1/4" (31)
1-1/16" (27)
13/16" (20)
Y
CH
FHP = CH + 1/8" (3)
GH = TH – 1-7/8" (47)
TH
FPT
DT
1/2" (13)
3/8" ±3/16" (10 ±5)
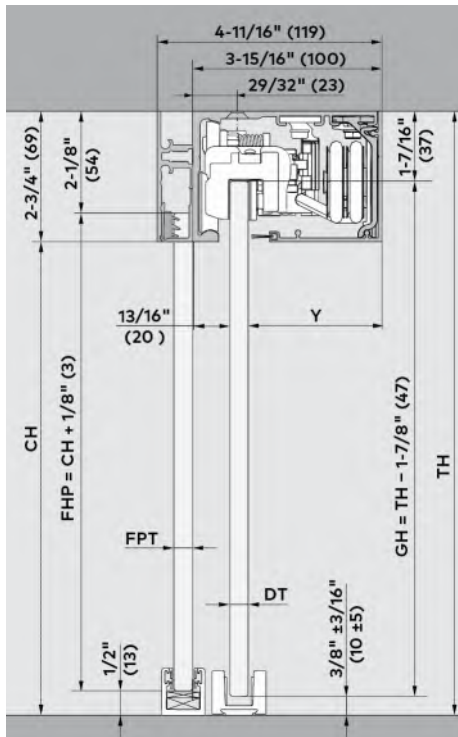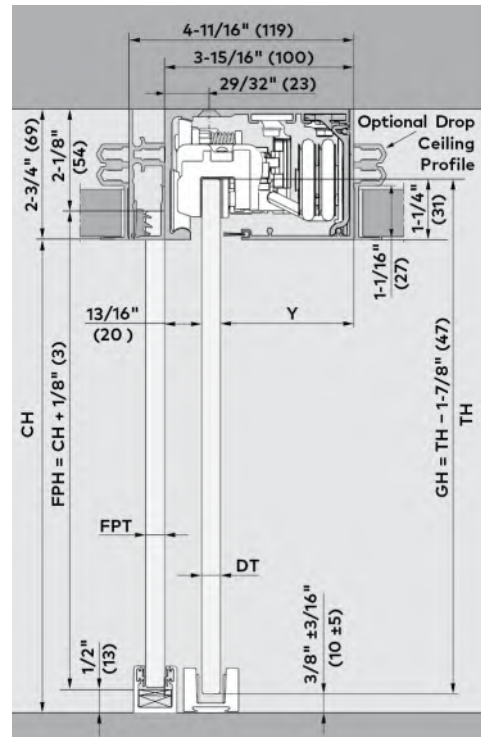
Calculation of glass height (CE-S/CE-R)
GH = TH – 1-7/8" (47)
FHP = CH + 1/8" (3)
max 118-1/8" (3000)

DW	=	Glass width
TL	=	Track length
GH	=	Glass height sliding door
FPH	=	Fixed panel (sidelite) height
TH	=	Total height
CH	=	Clear opening height
CW	=	Clear opening width
FPW1	=	Fixed panel (sidelite) width 1
FPW2	=	Fixed panel (sidelite) width 2
DT	=	Door (glass) thickness
FPT	=	Fixed panel (glass) thickness
Y	=	3-15/16" (100) – 13/16" (20) – DT

Premium XL 120 Self-Closing (SC)
Typical assemblies mounted to or in ceiling with two sliding panels with fixed panels on both sides
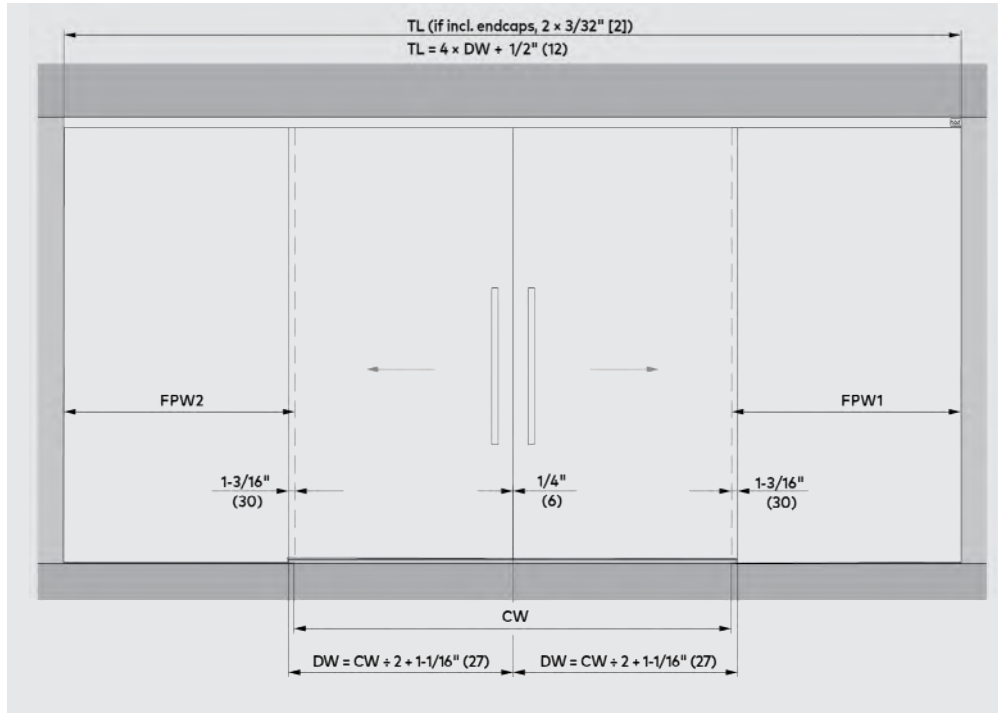
Note: XL 120 SC includes DORMOTION standard in the closing cycle, optional (DMSC) for opening cycle.

Features and data
For installation with two sliding door panels with fixed panels on each side, mounted to ceiling or in ceiling; for 5/16"–9/16" (8 –13.5) thick glass

Max weight of door panels
264 lb (120 kg)

Calculation of glass width
DW = CW÷2 + 1-1/16" (27)

	XL 120 SC
min 2P DW	2 x 33-1/2"(850)
max 2P DW	2 x 57" (1448)

Mounted to ceiling (CE-S)
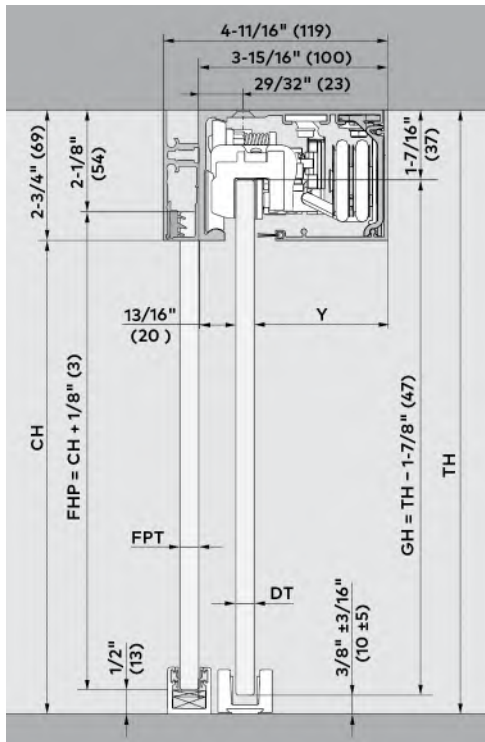
Mounted in drop ceiling (CE-R)
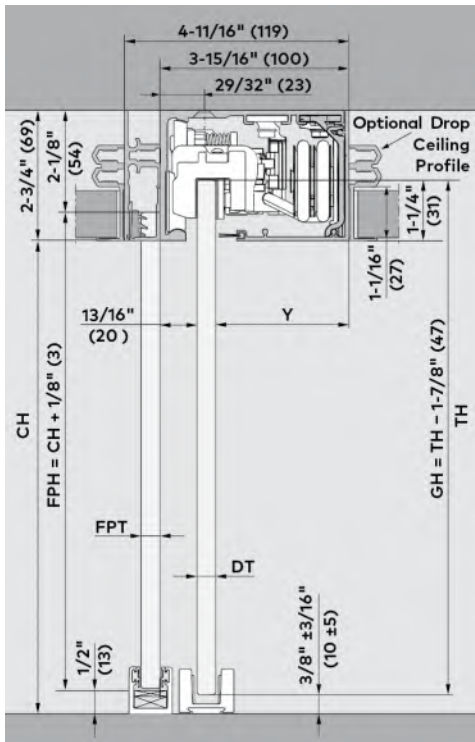
Calculation of glass height (CE-S/CE-R)
GH = TH − 1-7/8" (47)
FPH = CH + 1/8" (3)
max 118-1/8" (3000)

DW	= Glass width
TL	= Track length
GH	= Glass height sliding door
FPH	= Fixed panel (sidelite) height
TH	= Total height
CH	= Clear opening height
CW	= Clear opening width
FPW1	= Fixed panel (sidelite) width 1
FPW2	= Fixed panel (sidelite) width 2
DT	= Door (glass) thickness
FPT	= Fixed panel (glass) thickness
Y	= 3-15/16" (100) − 13/16" (20) − DT

Premium XL 120 Self-Closing (SC)
Typical assemblies for wood doors

TL = 2 x DW

1-3/16" (30)   1-3/16" (30)

CW

* If single door panel closes against jamb or only overlaps on one side, subtract 1-3/16" (30) from formula.

*DW = CW + 2-3/8" (60)

TL = 2 × DW

1-3/16" (30)   1-3/16" (30)

CW

* If single door panel closes against jamb or only overlaps on one side, subtract 1-3/16" (30) from formula.

*DW = CW + 2-3/8" (60)
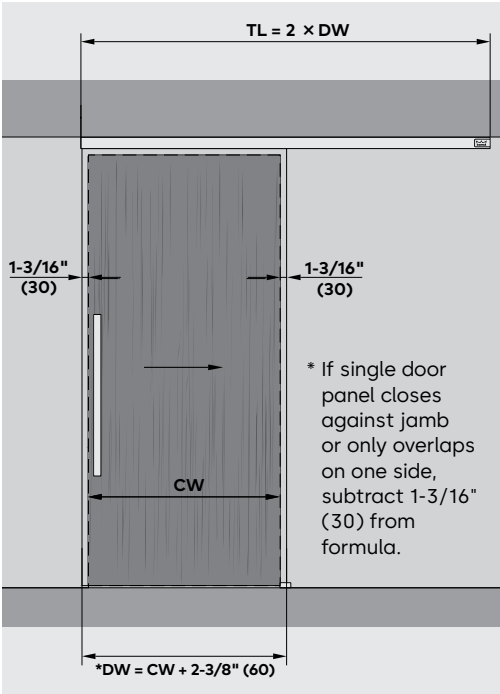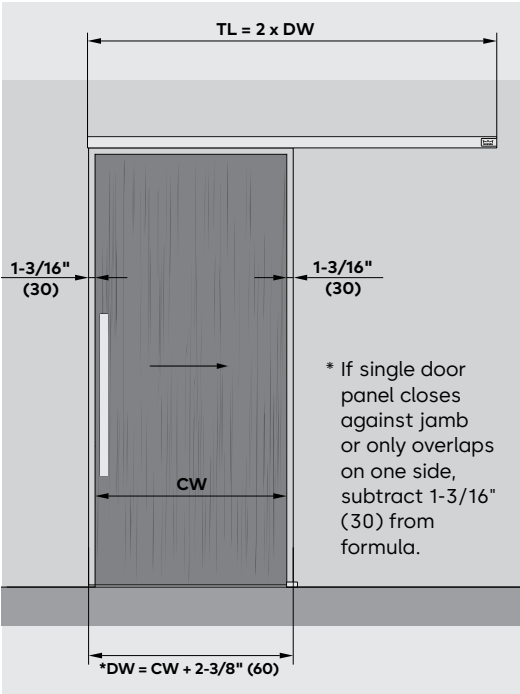
Features and data
For installations with wood doors; mounted to wall or ceiling; for 1-1/8"– 1-31/32" (28 – 50) thick wood doors

Max weight of door panels
264 lb (120 kg)

Calculation of door height
DH = CH – 3/4" (18) + X (wall)
DH = TH – 3-7/16" (87) (ceiling)
max 118-1/8" (3000)

Calculation of door width
DW = CW + 2-3/8" (60)

DW = Door width
TL = Track length
TH = Total height
CH = Clear opening height
CW = Clear opening width
DH = Door height
DT = Door (wood) thickness
Y = 3-15/16" (100) – 5/16" (7) – DT
X = Bottom of track channel to top of clear opening

Mounted to wall (W)

15/16" (24)   3-15/16" (100)

2-3/4" (69)   5/16" (8)

X

9/32" (7)   Y

CH

DH = CH – 3/4" (18) + X   TH

DT

13/16" (20)   3/8" 10   3/8" ±3/16" (10 ±5)
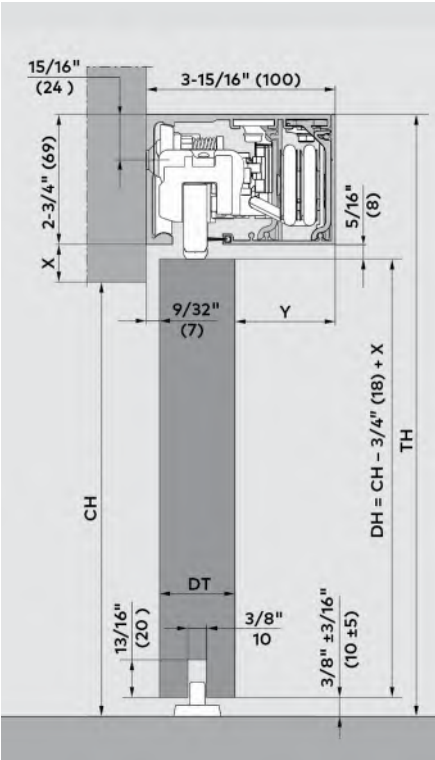
Mounted to or in ceiling (CE-S/CE-R)

3-15/16" (100)
29/32" (23)

2-3/4" (69)   5/16" (8)

9/32" (7)   Y

CH

DH = TH - 3-7/16" (87)   TH

DT

13/16" (20)   3/8" 10   3/8" ±3/16" (10 ±5)
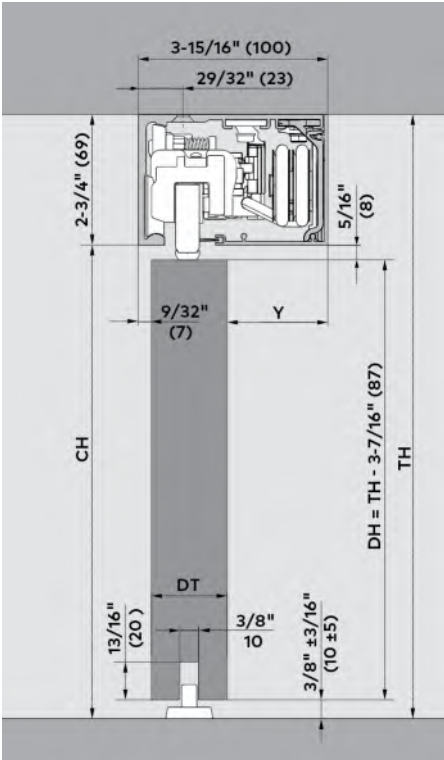
	XL 120 SC
min DW	33-1/2"(850)
max DW	60" (1524)
max 2P DW	2 x 60" (1524)

Note: XL 120 SC includes DORMOTION standard in the closing cycle, optional (DMSC) for opening cycle.

Premium XL 120 Self-Closing (SC)
Typical assemblies mounted on glass with one sliding panel
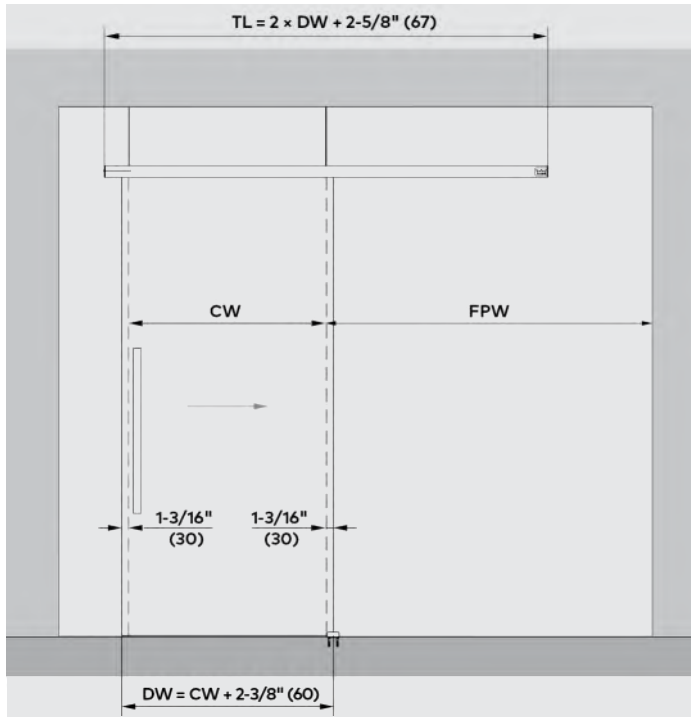
Note: To ensure a correct and aligned mounting of the track rail, a full supporting fixed panel must be installed.

Note: XL 120 SC includes DORMOTION standard in the closing cycle, optional (DMSC) for opening cycle.

Features and data
For installation with one sliding panel mounted on glass; for 5/16"–9/16" (8 –13.5) thick glass

Max weight of door panels
264 lb (120 kg)

Calculation of glass height
GH = CH + 7/8" (22)
max 118-1/8" (3000)

Calculation of glass width
DW = CW + 2-3/8" (60)
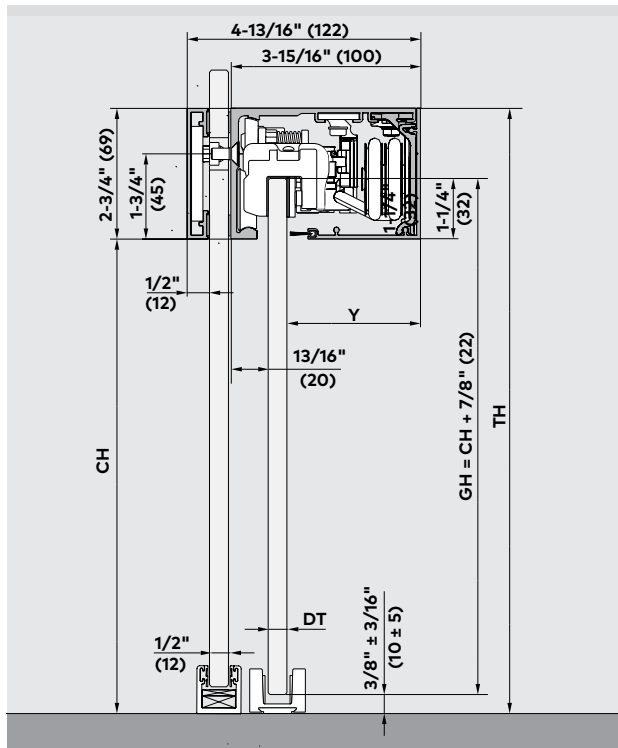
	XL 120 SC
min DW	33-1/2" (850)
min CW	31-1/8" (790)
max DW	57" (1448)
max CW	54-5/8" (1388)


```
* DD = (CW – 4-3/16") ÷ T  =  __"
  DD = (CW – 106) ÷ T  =  __  mm
```
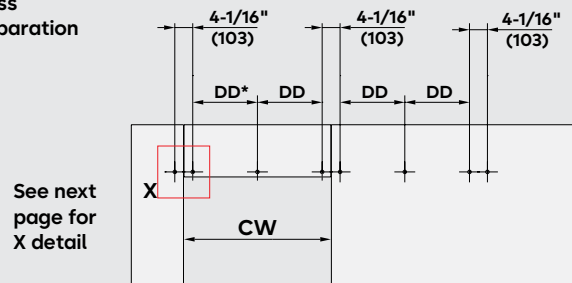
Calculation example
DD = (35-7/16" − 4-3/16") ÷ 3 = 10-7/16"
DD = (900 − 106) ÷ 3 = 265

T = Formula Value
Z = Quantity of holes to drill

The total quantity of holes (Z) depends on clear opening width (CW) and determines the final drilling distance (DD).

				T	Z
CW	≥	23-5/8"	(600)	2	8
	≤	31-1/2"	(800)		
CW	>	31-1/2"	(800)	3	10
	≤	39-3/8"	(1000)		
CW	>	39-3/8"	(1000)	4	12
	≤	47-1/4"	(1200)		
CW	>	47-1/4"	(1200)	5	14
	≤	54-5/8"	(1388)		

- Use the equation to determine (DD) drilling distance (hole spacing) at defined (DD) locations.
- Provide (CW) clear opening width to determine value for (T).
- Insert value for (T) to formula equation to calculate (DD) drilling distance.

Premium XL 120 Self-Closing (SC)
Typical assemblies mounted on glass with two sliding panels

TL = 4 × DW + 1/2" (12)

CW

FPW2

FPW1

1-3/16" (30)

1-3/16" (30)

1/4" (6)

DW = CW÷2 + 1-1/16" (27)   DW = CW÷2 + 1-1/16" (27)

Note: XL 120 SC includes DORMOTION standard in the closing cycle, optional (DMSC) for opening cycle.

Features and data
For installation with two sliding panels mounted on glass; for 5/16"–9/16" (8 –13.5) thick glass

Max weight of door panels
264 lb (120 kg)

Calculation of glass height
GH = CH + 7/8" (22)
max 118-1/8" (3000)

Calculation of glass width
DW = CW÷2 + 1-1/16" (27)

	XL 120 SC
min DW	33-1/2" (850)
min CW	64-13/16" (1646)
max DW	57" (1448)
max 2P DW	2 x 57" (1448)
max CW	111-7/8" (2842)

Refer to Elevation drawing on previous page.

Glass preparation

4-1/16" (103)   6-11/16" (170)   4-1/16" (103)   4-1/16" (103)

DD*   DD   DD   DD   DD   DD   DD   DD

X

See below for X detail

FPW2   CW   FPW1

* DD = (CW – 4-3/16" – 6-11/16") ÷ T = __"
  DD = (CW – 106 – 170) ÷ T = __ mm
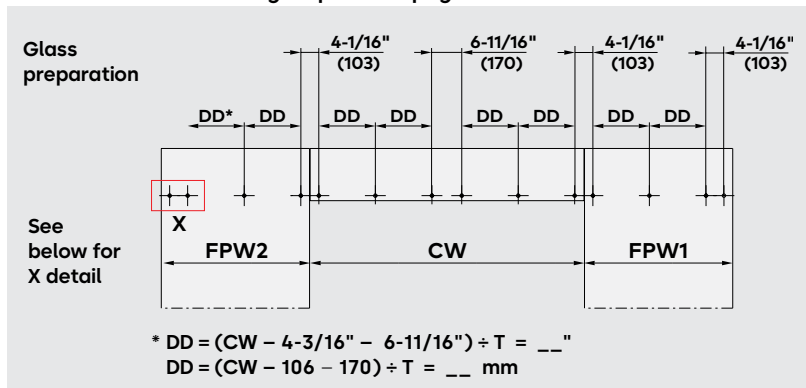
				T	Z
CW	≥	47-1/4" (1200)	≤ 59-1/16" (1500)	4	14
CW	>	59-1/16" (1500)	≤ 78-3/4" (2000)	6	18
CW	>	78-3/4" (2000)	≤ 111-7/8" (2842)	8	22

Calculation example
DD = (55-1/8" – 4-3/16" – 6-11/16") ÷ 4 = 11-1/16"
DD = (1400 – 106 – 170) ÷ 4 = 281

T = Formula Value
Z = Quantity of holes to drill

The total quantity of holes (Z) depends on clear opening width (CW) and determines the final drilling distance (DD).

- Use the equation to determine (DD) drilling distance (hole spacing) at defined (DD) locations.
- Provide (CW) clear opening width to determine value for (T).
- Insert value for (T) to formula equation to calculate (DD) drilling distance.

DW	=	Glass width
Z	=	Quantity of drillings
TL	=	Track length
DD	=	Drilling distance
TH	=	Total height
CH	=	Clear opening height
CW	=	Clear opening width
GH	=	Door height
FPW	=	Fixed panel (glass) width
T	=	Formula value to determine DD
DT	=	Door (glass) thickness
FPT	=	Fixed panel (sidelite) thickness 3/8" – 3/4" (10 – 19)
Y	=	3-15/16" (100) – 13/16" (20) – DT
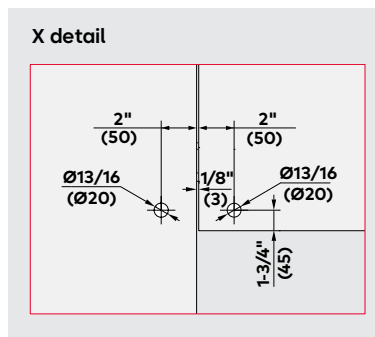
X detail

2" (50)   2" (50)

Ø13/16 (Ø20)   1/8" (3)   Ø13/16 (Ø20)

1-3/4" (45)

Premium XL 120 Self-Closing (SC)
Sliding door sets with one sliding panel and one or two fixed panels,

Incl. track/endcaps, cover, cover clips, gasket, end stops, roller carriers, DORMOTION , DM start/stops, floor guide, sidelite profile and gasket, sidelite filler profile, sidelite endcaps, U-Channel and gasket, and sidelite mounting hardware. (Sidelite view profile included if appropriate.)

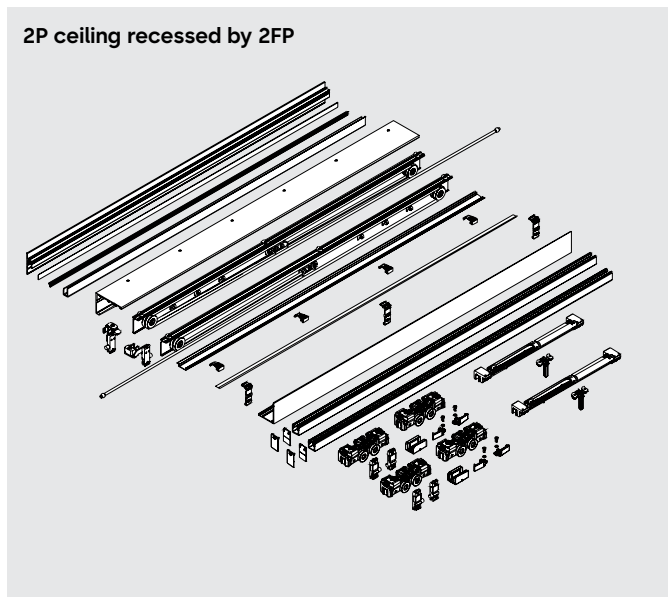Complete accessories for 5/16"–9/16" (8 –13.5) thick glass.
XL 120 DM max 264 lb (120 kg).

1P ceiling surface by 1FP or 2FP

Sidelite view protection profile not included in kits for single fixed panel (1P Ceiling Surface by 1FP)

1P ceiling surface by 1FP – Set for ceiling surface installation with one sliding panel and one fixed panel.

	Min panel width	Min clear opening width	Max panel width[2]	Max clear opening width[2]	Max track length[2]	Ref. No.
1P XL 120 SC CE-S 1FP						
MTO	33-1/2" (850)	31-1/8" (790)	57" (1448)	54-5/8" (1388)	157-1/2" (4000)	RH 236.690 LH 236.692

1P ceiling surface by 2FP – Set for ceiling surface installation with one sliding panel and two fixed panels.

	Min panel width	Min clear opening width	Max panel width[2]	Max clear opening width[2]	Max track length[2]	Ref. No.
1P XL 120 SC CE-S 2FP						
MTO	33-1/2" (850)	31-1/8" (790)	57" (1448)	54-5/8" (1388)	157-1/2" (4000)	RH 236.694 LH 236.696

2P ceiling surface by 2FP

2P ceiling surface by 2FP – Set for ceiling surface installation with two sliding panels and two fixed panels.

	Min panel width	Min clear opening width	Max panel width[2]	Max clear opening width[2]	Max track length[2]	Ref. No.
2P XL 120 SC CE-S 2FP						
MTO	33-1/2" (850)	31-1/8" (790)	57" (1448)	54-5/8" (1388)	157-1/2" (4000)	236.698

[2] For 157-1/2" track lengths, only 154" are useable.
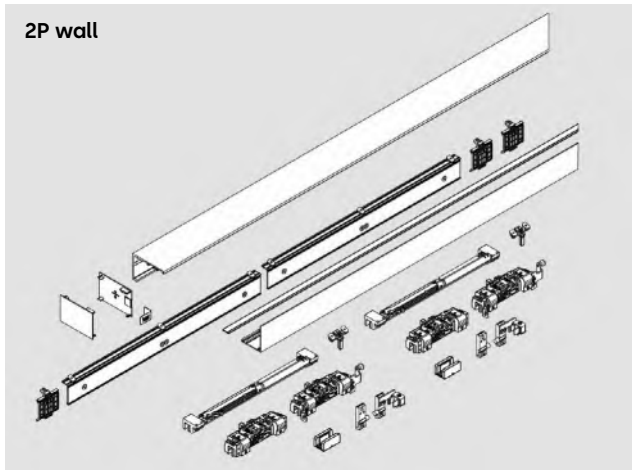 Max wood door sizes can be increased by 3" (76), MTO only.

Note: Refer to Component parts section for wood door adapter options.

Premium XL 120 Self-Closing (SC)
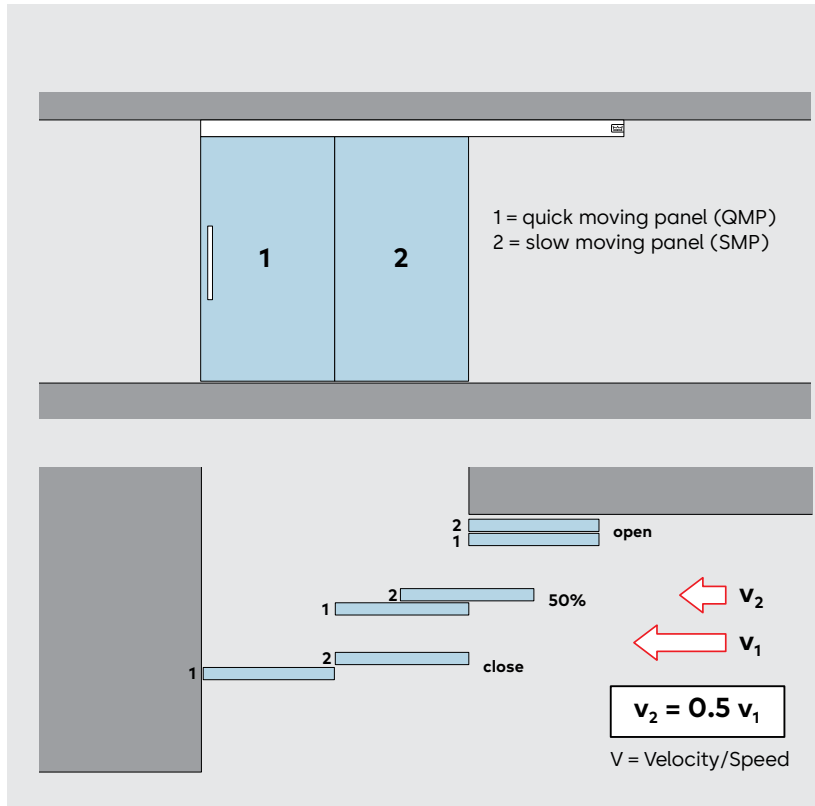## Sliding door sets with one sliding panel and one or two fixed panels, ceiling recessed installation

Incl. track/endcaps, cover, cover clips, gasket, end stops, roller carriers, DORMOTION , DM start/stops, floor guide, sidelite profile and gasket, sidelite filler profile, sidelite endcaps, U-Channel and gasket, and sidelite mounting hardware. (Sidelite view profile included if appropriate.)

Complete accessories for 5/16"–9/16" (8 –13.5) thick glass. XL 120 DM max 264 lb (120 kg).

1P ceiling recessed by 1FP or 2FP
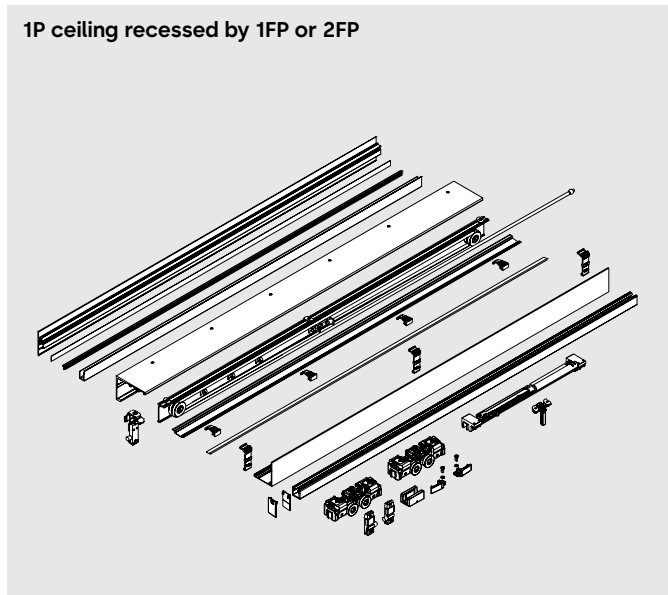
1P ceiling recessed by 1FP – Set for ceiling recessed installation with one sliding panel and one fixed panel.

	Min panel width	Min clear opening width	Max panel width[2]	Max clear opening width[2]	Max track length[2]	Ref. No.
1P XL 120 SC CE-R 1FP						
MTO	33-1/2" (850)	31-1/8" (790)	57" (1448)	54-5/8" (1388)	157-1/2" (4000)	RH **236.691** LH **236.693**

1P ceiling recessed by 2FP – Set for ceiling recessed installation with one sliding panel and two fixed panels.

	Min panel width	Min clear opening width	Max panel width[2]	Max clear opening width[2]	Max track length[2]	Ref. No.
1P XL 120 SC CE-R 2FP						
MTO	33-1/2" (850)	31-1/8" (790)	57" (1448)	54-5/8" (1388)	157-1/2" (4000)	RH **236.695** LH **236.697**

2P ceiling recessed by 2FP

2P seiling recessed by 2FP – Set for ceiling recessed installation with two sliding panels and two fixed panels.

	Min panel width	Min clear opening width	Max panel width[2]	Max clear opening width[2]	Max track length[2]	Ref. No.
2P XL 120 SC CE-R 2FP						
MTO	33-1/2" (850)	31-1/8" (790)	57" (1448)	54-5/8" (1388)	157-1/2" (4000)	**236.699**

[2] For 157-1/2" track lengths, only 154" are useable. Max wood door sizes can be increased by 3" (76), MTO only.

Note: Refer to Component parts section for wood door adapter options.

Premium XL 120 Self-Closing (SC)
Sliding door sets with one sliding panel

Incl. track/endcaps, cover, cover clips, gasket, end stops, roller carriers, DORMOTION, DM start/stops, and floor guide. Complete accessories for 5/16"–9/16" (8 –13.5) thick glass.

XL 120 DM max 264 lb (120 kg).

1P wall

1P wall installation – Set for wall installation with one sliding panel.

	Min panel width	Min clear opening width	Max panel width[2]	Max clear opening width[2]	Max track length[2]	Ref. No.
1P XL 120 SC W						
MTO	33-1/2" (850)	31-1/8" (790)	57" (1448)	54-5/8" (1388)	157-1/2" (4000)	RH 836.620 LH 836.621

1P ceiling surface

1P ceiling surface installation – Set for ceiling surface installation with one sliding panel.

	Min panel width	Min clear opening width	Max panel width[2]	Max clear opening width[2]	Max track length[2]	Ref. No.
1P XL 120 SC CE-R 2FP						
MTO	33-1/2" (850)	31-1/8" (790)	57" (1448)	54-5/8" (1388)	157-1/2" (4000)	RH 836.622 LH 836.623

1P glass

1P glass installation – Set for glass installation with one sliding panel.

	Min panel width	Min clear opening width	Max panel width[2]	Max clear opening width[2]	Max track length[2]	Ref. No.
2P XL 120 SC CE-R 2FP						
MTO	33-1/2" (850)	31-1/8" (790)	57" (1448)	54-5/8" (1388)	157-1/2" (4000)	RH 836.624 LH 836.625

[2] For 157-1/2" track lengths, only 154" are useable.
  Max wood door sizes can be increased by 3" (76), MTO only.

Note: Refer to Component parts section for wood door adapter options.

Premium XL 120 Self-Closing (SC)
Sliding door sets with two sliding panels

Incl. track/endcaps, cover, cover clips, gasket, end stops, roller carriers, DORMOTION, DM start/stops, and floor guide. Complete accessories for 5/16"–9/16" (8 –13.5) thick glass.

XL 120 DM max 264 lb (120 kg).

2P wall

2P wall installation – Set for wall installation with two sliding panels.

	Min panel width	Min clear opening width	Max panel width[2]	Max clear opening width[2]	Max track length[2]	Ref. No.
2P XL 120 SC W						
MTO	33-1/2" (850)	64-13/16" (1646)	57" (1448)	111-7/8" (2842)	157-1/2" (4000)	**836.626**
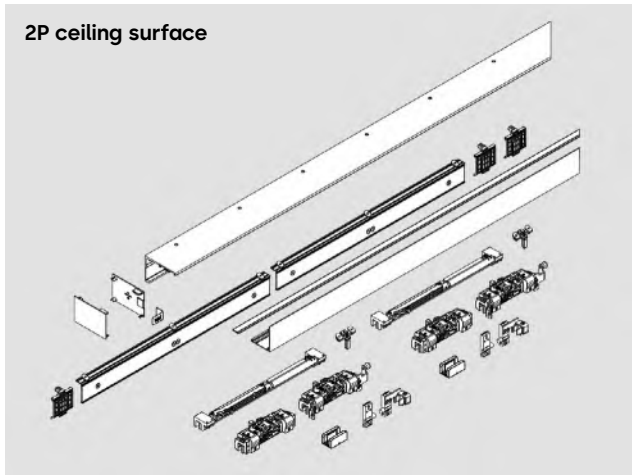
2P ceiling surface

2P ceiling surface installation – Set for ceiling surface installation with two sliding panels

	Min panel width	Min clear opening width	Max panel width[2]	Max clear opening width[2]	Max track length[2]	Ref. No.
2P XL 120 SC CE-S						
MTO	33-1/2" (850)	64-13/16" (1646)	57" (1448)	111-7/8" (2842)	157-1/2" (4000)	**836.627**
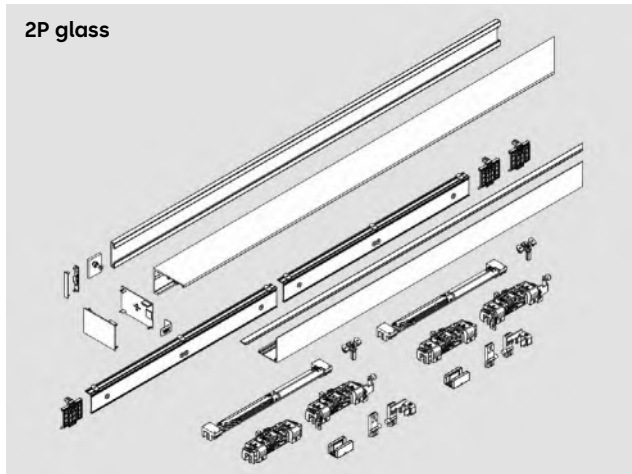
2P glass

2P glass installation – Set for glass installation with two sliding panels.

	Min panel width	Min clear opening width	Max panel width[2]	Max clear opening width[2]	Max track length[2]	Ref. No.
2P XL 120 SC G						
MTO	33-1/2" (850)	64-13/16" (1646)	57" (1448)	111-7/8" (2842)	157-1/2" (4000)	**836.628**

[2] For 157-1/2" track lengths, only 154" are useable.
Max wood door sizes can be increased by 3" (76), MTO only.

Note: Refer to Component parts section for wood door adapter options.

Premium XL 80 Telescopic (TEL)
Large clear openings; small space requirement

Quick and slow moving panels

1 = quick moving panel (QMP)
2 = slow moving panel (SMP)

2
1 open

2
1 50%

2
1 close

v_2
v_1

$$v_2 = 0.5\, v_1$$

V = Velocity/Speed

Features

- Telescopic functionality
- Synchronized panels (simultaneous) movement of panel 1 (quick moving panel) and panel 2 (slow moving panel)—slow moving panel <= half speed of panel 1
- DORMOTION functionality (optional)
- Status indicator (optional)

Hassle-free and uncomplicated ordering

- Quick (QMP) and slow (SMP) panels are clamped—no additional glass preparation required
- Easy glass preparation for mounting the moving floor guide

Many application choices

- Wall installation
- Ceiling installation
- Ceiling installation with sidelites and for closing against 90° jamb
- Installation to glass transom/sidelites
- Support for TLG (tempered lamintated glass) due to Clamp & Glue technology
- Applicable for both glass and wood panels (wood panels require wood adapter set; see accessories section)
- Max 2 × 176 lb (80 kg) resp, 4 × 176 lb (80 kg)
- Support for glass thicknesses from 5/16"–9/16" (8–13.5)

Opening directions

Left hand:
Opening direction left,
Closing direction right
(Handed in opening direction)

Right hand:
Opening direction right,
Closing direction left
(Handed in opening direction)
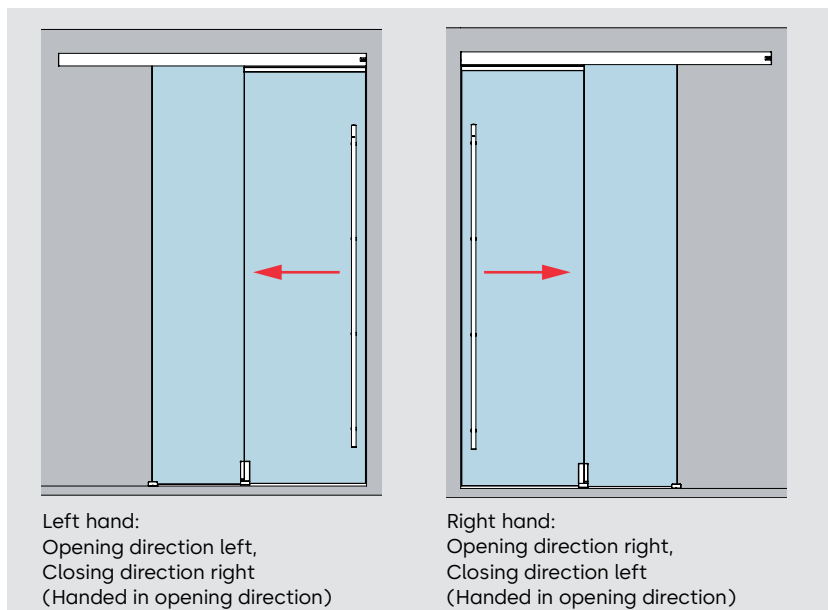
Closing against 90° jamb
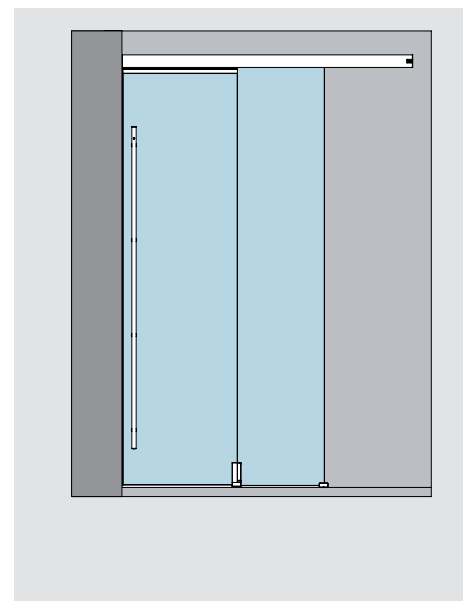
Premium XL 80 Telescopic (TEL)
Installing moving floor guide (requires glass preparation)

Standard fixed floor guide for guiding the slow moving panel
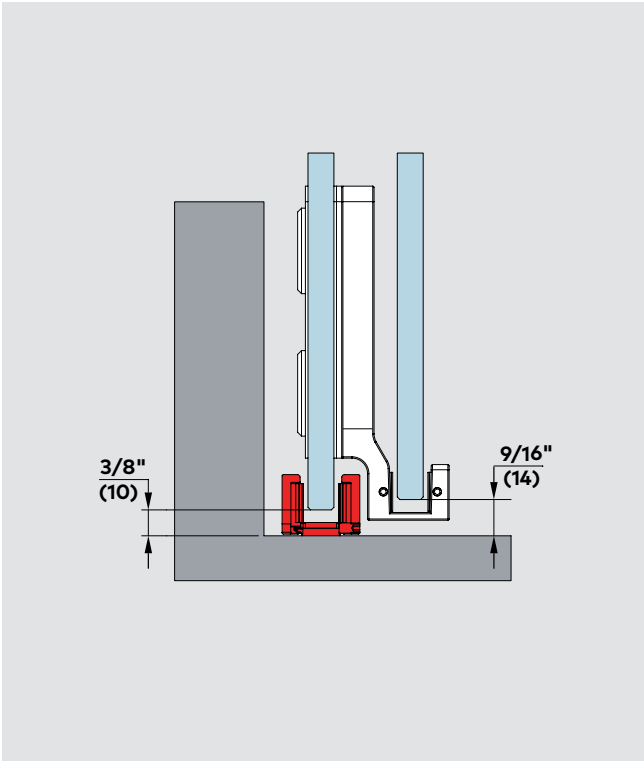
Moving floor guide for guiding the fast moving panel
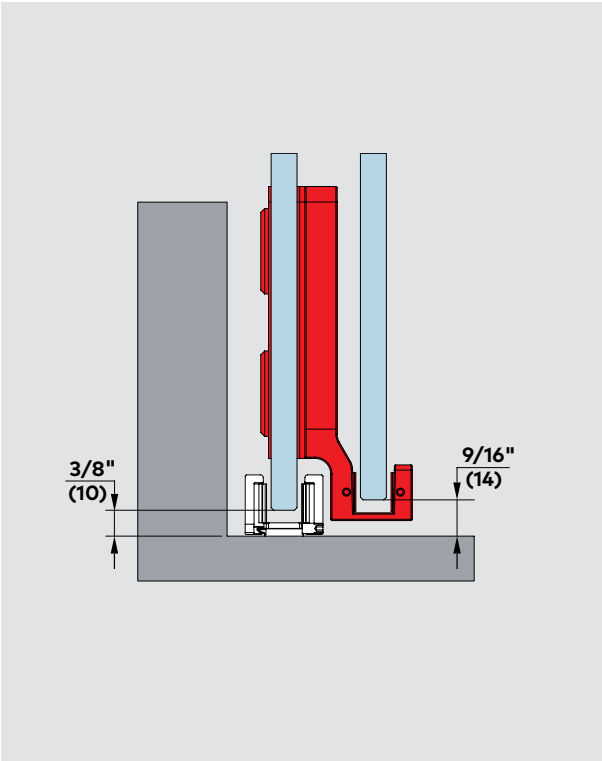
Glass preparation for moving floor guide
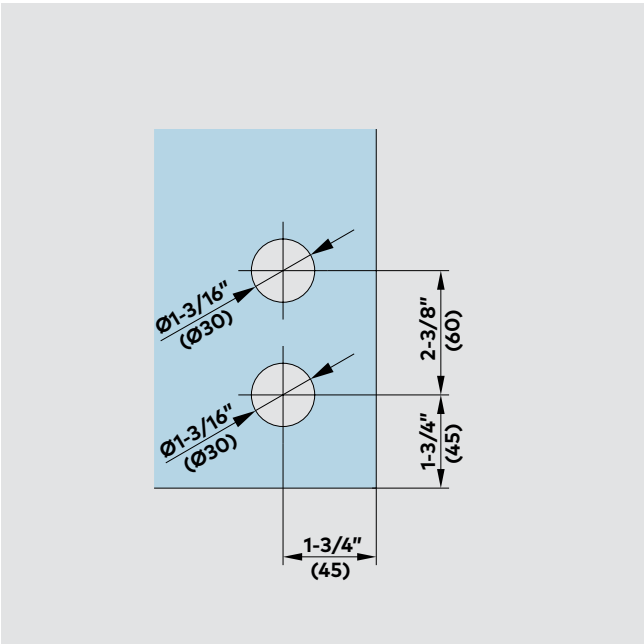
Premium XL 80 Telescopic (TEL)
Wide openings with small panels

Unless indicated otherwise, all measurements are shown in inches (mm).
Panel width min.* — 23-5/8" (600)
Panel width max.* — 50-21/32" (1287)

Panel sizing chart

without DORMOTION	without handle	with handle	without handle	with handle	without handle	with handle	without handle	with handle	without handle	with handle
Min panel width	23-5/8" (600)	26-3/16" (665)	23-5/8" (600)	26-3/16" (665)	23-5/8" (600)	27-1/32" (687)	23-5/8" (600)	27-1/32" (687)	23-5/8" (600)	26-3/16" (665)
Clear opening width	43-23/32" (1110)	43-23/32" (1110)	90" (2286)	90" (2286)	68-29/32" (1750)	68-29/32" (1750)	137-21/32" (3496)	137-21/32" (3496)	45-3/32" (1145)	45-3/32" (1145)
Max panel width	47-1/4" (1200)	49-13/16" (1265)	39-3/8" (1000)	41-15/16" (1065)	47-1/4" (1200)	50-21/32" (1287)	39-3/8" (1000)	42-13/16" (1087)	47-1/4" (1200)	49-13/16" (1265)
Clear opening width	90-15/16" (2310)	90-15/16" (2310)	153" (3886)	153" (3886)	139-3/4" (3550)	139-3/4" (3550)	232-1/8" (5896)	232-1/8" (5896)	92-5/16" (2345)	92-5/16" (2345)

with DORMOTION	without handle	with handle	without handle	with handle	without handle	with handle	without handle	with handle	without handle	with handle
Min panel width	31-3/32" (790)	33-21/32" (855)	31-3/32" (790)	33-21/32" (855)	31-3/32" (790)	34-17/32" (877)	31-3/32" (790)	34-17/32" (877)	31-3/32" (790)	33-21/32" (855)
Rough opening width	58-21/32" (1490)	58-21/32" (1490)	119-15/16" (3046)	119-15/16" (3046)	91-11/32" (2320)	91-11/32" (2320)	182-17/32" (4636)	182-17/32" (4636)	60" (1525)	60" (1525)
Max panel width	47-1/4" (1200)	49-13/16" (1265)	39-3/8" (1000)	41-15/16" (1065)	47-1/4" (1200)	50-21/32" (1287)	39-3/8" (1000)	42-13/16" (1087)	47-1/4" (1200)	49-13/16" (1265)
Rough opening width	90-15/16" (2310)	90-15/16" (2310)	153" (3886)	153" (3886)	139-3/4" (3550)	139-3/4" (3550)	232-1/8" (5896)	232-1/8" (5896)	92-5/16" (2345)	92-5/16" (2345)

*   Depending on installation related to quick moving panel (see detailed overview).
**   Glass sidelite

Premium XL 80 Telescopic (TEL)
Typical assemblies mounted to wall

Opening direction left hand.
Closing direction right.
(Handed in opening direction.)

Mounted to wall

1 OL recommended at 4-15/16"(125), which is 2-15/16" (75) from leading edge of QMP. This allows 1-3/16" (30) clearance on both sides of handle in addition to 1-3/16" (30) overlap on jamb side. Example is using 1-3/8" (35) handle thickness. Refer to AHJ (authority having jurisdiction) as requirements can vary.

2 CW can be jamb to jamb, equal to RW if flush pull is used. Using two equal width doors allows both panels to open flush with jamb.

TL	=	Track length
GH SMP	=	Glass height slow moving panel
GH QMP	=	Glass height quick moving panel
CH	=	Clear opening height
RW	=	Rough opening width
SMP	=	Slow moving panel
QMP	=	Quick moving panel
DT	=	Glass (door) thickness
OL	=	Overlap for handle
CW	=	Clear opening width
DT1	=	Door thickness (fast panel)
DT2	=	Door thickness (slow panel)

Features and data
For installation with two door panels mounted to wall. 5/16"–9/16" (8 –13.5) glass thickness. Optional DORMOTION unit.

Max weight of door panels
176 lb (80 kg)

Calculation of track length
2 panels:
TL=(1.5xRW−(OL /2))+3-11/32" (85)

Bi-parting 4 panels:
TL = 1.5 × RW−OL + 2-5/8" (67)

Calculation of glass width
2 panels:
SMP=(RW−OL + 3-17/32" [90])/2
QMP=SMP + OL
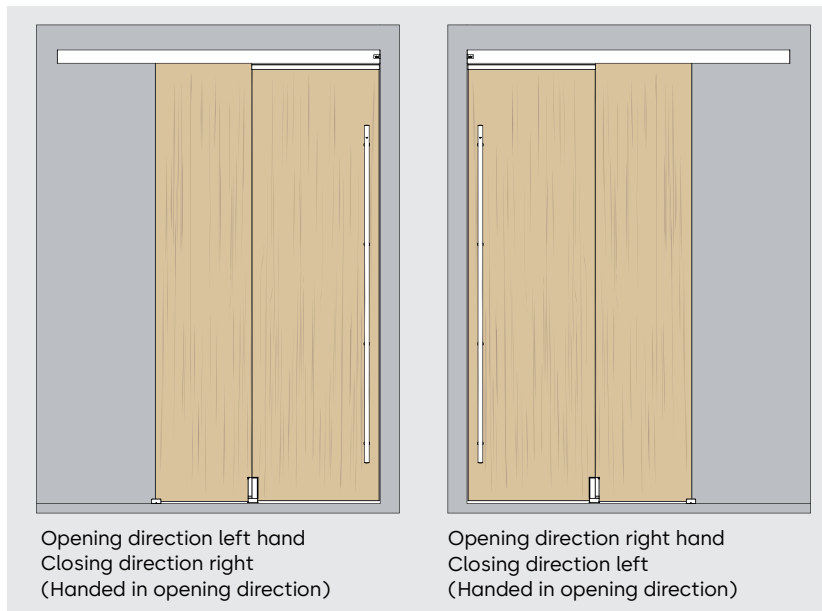
Bi-parting 4 panels:
SMP=(RW−(2 x OL)+4-1/2" [114])/4

Calculation of glass height
GH SMP = CH + 23/32" (18)
GH QMP = CH − 1-1/16" (27)

Premium XL 80 Telescopic (TEL)
Typical assemblies mounted to ceiling

Opening direction left hand.
Closing direction right.
(Handed in opening direction.)
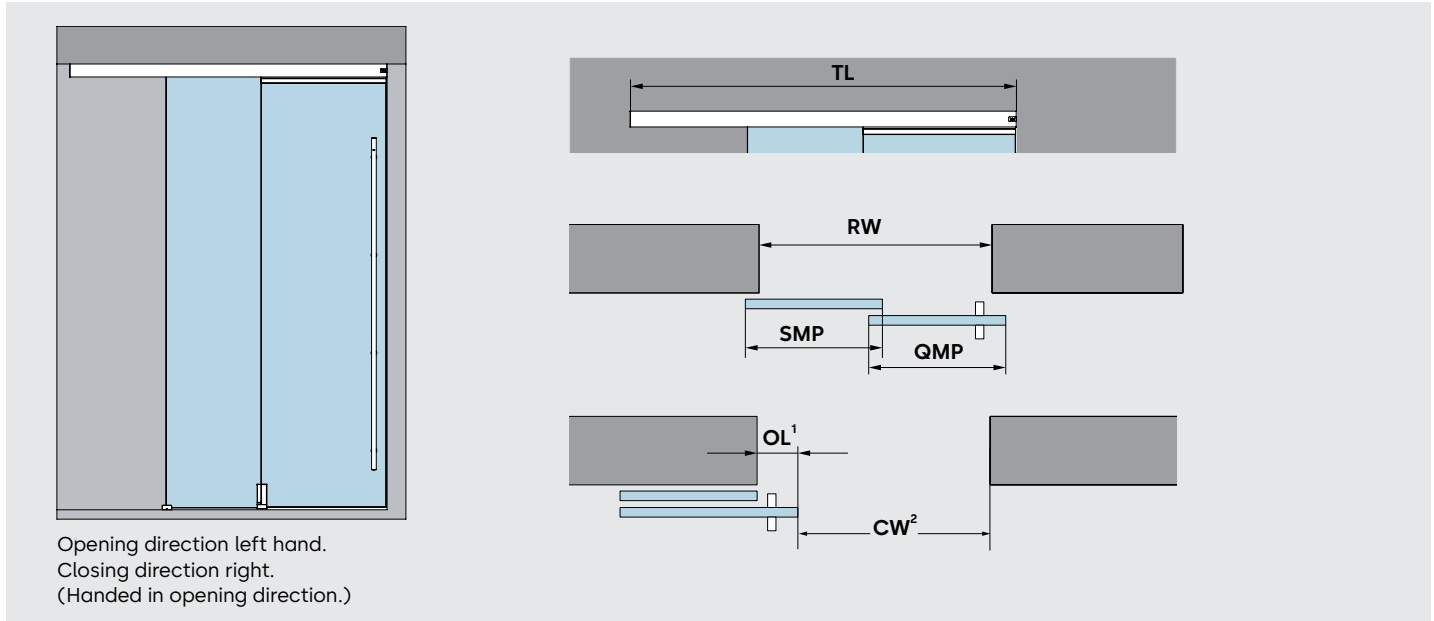
Mounted to ceiling

1 OL recommended at 4-15/16"(125), which is 2-15/16" (75) from leading edge of QMP. This allows 1-3/16" (30) clearance on both sides of handle in addition to 1-3/16" (30) overlap on jamb side. Example is using 1-3/8" (35) handle thickness. Refer to AHJ (authority having jurisdiction) as requirements can vary.

2 CW can be jamb to jamb, equal to RW if flush pull is used. Using two equal width doors allows both panels to open flush with jamb.

Features and data
For installation with two door panels mounted at ceiling.
5/16"–9/16" (8–13.5) glass thickness.
Optional DORMOTION unit.

Max weight of door panels
176 lb (80 kg)

Calculation of track length
2 panels:
$TL=(1.5 \times RW-(OL/2)) + 3\text{-}11/32" (85)$

Bi-parting 4 panels:
$TL=1.5 \times RW - OL + 2\text{-}5/8" (67)$

Calculation of glass width
2 panels:
$SMP=(RW - OL + 3\text{-}17/32" [90]) / 2$
$QMP=SMP + OL$

Bi-parting 4 panels:
$SMP=(RW-(2 \times OL) + 4\text{-}1/2" [114]) / 4$
$QMP = SMP + OL$

Calculation of glass height
$GH\ SMP = CH + 23/32" (18)$
$GH\ QMP = CH − 1\text{-}1/16" (27)$

TL	=	Track length
GH SMP	=	Glass height slow moving panel
GH QMP	=	Glass height quick moving panel
CH	=	Clear opening height
RW	=	Rough opening width
SMP	=	Slow moving panel
QMP	=	Quick moving panel
DT	=	Glass (door) thickness
OL	=	Overlap for handle
CW	=	Clear opening width
DT1	=	Door thickness (fast panel)
DT2	=	Door thickness (slow panel)

Premium XL 80 Telescopic (TEL)
Typical assemblies with sidelite on one side
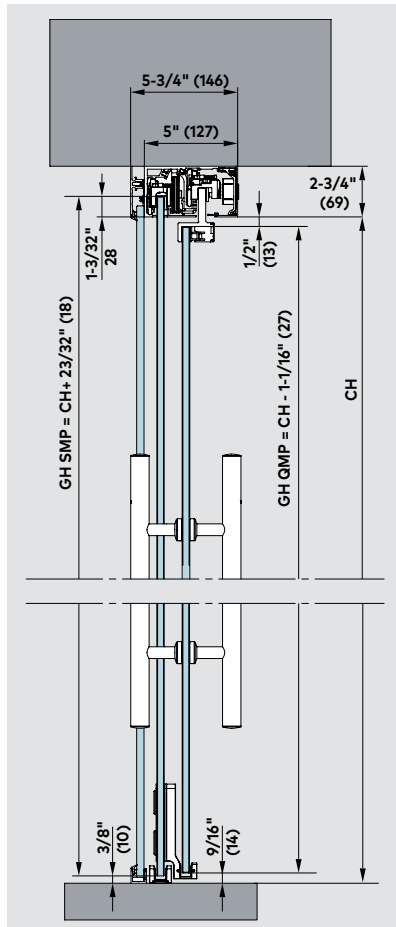
Opening direction left hand.
Closing direction right.
(Handed in opening direction.)

With sidelite

1 OL recommended at 4-15/16"(125), which is 2-15/16" (75) from leading edge of QMP. This allows 1-3/16" (30) clearance on both sides of handle in addition to 1-3/16" (30) overlap on jamb side. Example is using 1-3/8" (35) handle thickness. Refer to AHJ (authority having jurisdiction) as requirements can vary.
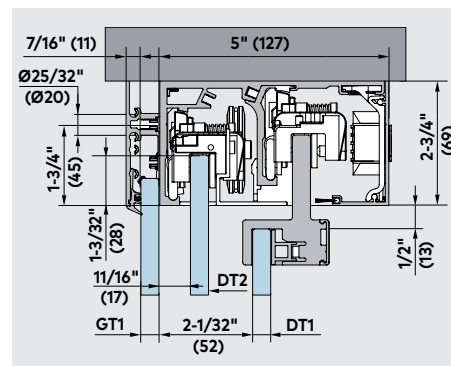
TL	=	Track length
GH SMP	=	Glass height slow moving panel
GH QMP	=	Glass height quick moving panel
CH	=	Clear opening height
RW	=	Rough opening width
SMP	=	Slow moving panel
QMP	=	Quick moving panel
FP	=	Fixed panel sidelite
DT	=	Glass (door) thickness
OL	=	Overlap for handle
CW	=	Clear opening width
PCW	=	Clear opening passage width (SMP)
DT1	=	Door thickness (fast panel)
DT2	=	Door thickness (slow panel)
GT1	=	Glass thickness (fixed panel sidelite)

2 CW can be jamb to jamb, equal to RW if flush pull is used. Using two equal width doors allows both panels to open flush with jamb.

Features and data
For installation with two door panels mounted at ceiling.
5/16"–9/16" (8–13.5) glass thickness.
Optional DORMOTION unit.

Max weight of door panels
176 lb (80 kg)
For min and max panel sizes, see page 38.

Calculation of track length
$TL = RW - 5/32"$ (4)
$TL = RW$ (without end caps)

Calculation of glass width 2 panels:
$SMP = (RW - OL + 2" [51]) / 3$
$QMP = SMP + OL$

Bi-parting 4 panels:
$SMP = (RW - (2 \times OL) + 4 (102)) / 6$
$QMP = SMP + OL$

Calculation of glass height
$GH\ SMP = CH + 23/32"$ (18)
$GH\ QMP = CH - 1-1/16"$ (27)

Sidelite calculations 2 panels:
$FP = (RW - OL + 2-9/16" [66]) / 3$
$PCW = RW - FP$

Bi-parting 4 panels:
$FP = RW - (2 \times OL) + 5-3/16" (132) / 6$
$PCW = RW - (2 \times FP)$

Premium XL 80 Telescopic (TEL)
Typical assemblies mounted to glass

Opening direction left hand.
Closing direction right.
(Handed in opening direction.)

Mounted to glass

1 OL recommended at 4-15/16"(125), which is 2-15/16" (75) from leading edge of QMP. This allows 1-3/16" (30) clearance on both sides of handle in addition to 1-3/16" (30) overlap on jamb side. Example is using 1-3/8" (35) handle thickness. Refer to AHJ (authority having jurisdiction) as requirements can vary.

2 CW can be jamb to jamb, equal to RW if flush pull is used. Using two equal width doors allows both panels to open flush with jamb.

TL	=	Track length
GH SMP	=	Glass height slow moving panel
GH QMP	=	Glass height quick moving panel
CH	=	Clear opening height
RW	=	Rough opening width
SMP	=	Slow moving panel
QMP	=	Quick moving panel
DT	=	Glass (door) thickness
OL	=	Overlap for handle
CW	=	Clear opening width
PCW	=	Clear opening passage width (SMP)
DT1	=	Door thickness (fast panel)
DT2	=	Door thickness (slow panel)
GT1	=	Glass thickness (fixed panel sidelite)

Features and data

For installation with two door panels mounted to glass.
5/16"–9/16" (8–13.5) glass thickness.
Optional DORMOTION unit.

Max weight of door panels

176 lb (80 kg)
For min and max panel sizes, see page 36.

Calculation of track length 2 panels:

TL = (1.5 x PCW−(OL/2))+5-5/16" (135)

Bi-parting 4 panels:

TL = (1.5 x PCW)−OL + 2-5/8" (67)

Calculation of glass width 2 panels:

SMP = (PCW−OL + 3-17/32" (90)) / 2
QMP=SMP + OL

Bi-parting 4 panels:

SMP=(PCW−(2 x OL) + 4-1/2" (114)) / 4
QMP = SMP + OL

Calculation of glass height

GH SMP = CH + 23/32" (18)
GH QMP = CH − 1-1/16" (27)

Premium XL 80 Telescopic (TEL)
Typical assemblies for wood panels

Opening direction left hand
Closing direction right
(Handed in opening direction)

Opening direction right hand
Closing direction left
(Handed in opening direction)

Features and data
For installation with two wood doors mounted to wall or ceiling, for 1-1/8" to 1-31/32" (29 to 50) door thicknesses.
Optional DORMOTION unit.

Max weight of door panels
176 lb (80 kg)
For min and max panel sizes, see page 36.

Calculation of track length
Refer to glass calculations on previous pages.

Calculation of panel width
Refer to glass calculations on previous pages.

Calculation of glass height
DH SMP = CH + 23/32" (18)
DH QMP = CH − 1-1/16" (27)

Mounted to wall
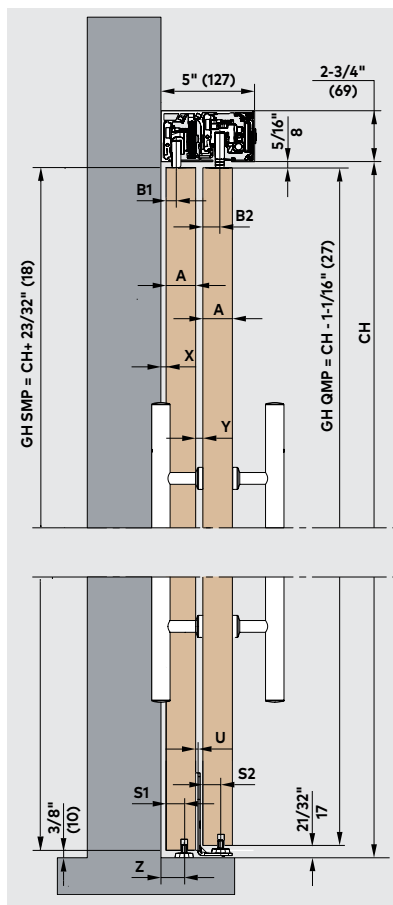
CH = Clear opening height
DH SMP = Door height slow moving panel
DH QMP = Door height quick moving panel

A	S1	S2	X	Y	Z	B1	B2	U
1-1/8"(29)	3/8"(9.5)	3/8"(9.5)	7/16"(11)	7/8"(22)	1"(25)	3/8"(10)	23/32"(18)	3/16"(5)
1-3/16"(30)	3/8"(9.5)	3/8"(9.5)	7/16"(11)	13/16"(21)	1"(25)	3/8"(10)	23/32"(18)	5/32"(4)
1-7/32"(31)	3/8"(9.5)	3/8"(9.5)	7/16"(11)	25/32"(20)	1"(25)	3/8"(10)	23/32"(18)	1/8"(3)
1-1/4"(32)	3/8"(9.5)	3/8"(9.5)	7/16"(11)	3/4"(19)	1"(25)	3/8"(10)	23/32"(18)	3/32"(2)
1-5/16"(33)	3/8"(9.5)	3/8"(9.5)	7/16"(11)	23/32"(18)	1"(25)	3/8"(10)	23/32"(18)	1/32"(1)
1-11/32"(34)	3/8"(9.5)	3/8"(9.5)	7/16"(11)	21/32" (17)	1"(25)	3/8"(10)	23/32"(18)	–
1-3/8"(35)	9/16"(14)	9/16"(14)	7/16"(11)	1/2"(13)	1-5/32"(29.5)	3/8"(10)	27/32"(21.5)	–
1-13/32"(36)	9/16"(14)	9/16"(14)	7/16"(11)	1/2"(13)	1-5/32"(29.5)	3/8"(10)	13/16"(20.5)	–
1-15/32"(37)	9/16"(14)	9/16"(14)	7/16"(11)	1/2"(13)	1-5/32"(29.5)	3/8"(10)	25/32"(19.5)	–
1-1/2"(38)	9/16"(14)	9/16"(14)	7/16"(11)	1/2"(13)	1-5/32"(29.5)	3/8"(10)	23/32"(18.5)	–
1-17/32"(39)	9/16"(14)	9/16"(14)	7/16"(11)	1/2"(13)	1-5/32"(29.5)	3/8"(10)	11/16"(17.5)	–
1-9/16"(40)	25/32"(20)	25/32"(20)	9/32"(7)	9/32"(7)	1-1/4"(31.5)	9/16" (14)	1-1/32"(26)	–
1-5/8"(41)	25/32"(20)	25/32"(20)	9/32"(7)	9/32"(7)	1-1/4"(31.5)	9/16"(14)	1"(25)	–
1-21/32"(42)	25/32"(20)	25/32"(20)	9/32"(7)	9/32"(7)	1-1/4"(31.5)	9/16"(14)	15/16"(24)	–
1-11/16"(43)	25/32"(20)	25/32"(20)	9/32"(7)	9/32"(7)	1-1/4"(31.5)	9/16"(14)	29/32"(23)	–
1-3/4"(44)	25/32"(20)	25/32"(20)	9/32"(7)	9/32"(7)	1-1/4"(31.5)	9/16"(14)	7/8"(22)	–
1-25/32"(45)	25/32"(20)	25/32"(20)	9/32"(7)	9/32"(7)	1-1/4"(31.5)	9/16"(14)	13/16"(21)	–
1-13/16"(46)	25/32"(20)	25/32"(20)	9/32"(7)	9/32"(7)	1-1/4"(31.5)	9/16"(14)	25/32"(20)	–
1-27/32"(47)	25/32"(20)	25/32"(20)	9/32"(7)	9/32"(7)	1-1/4"(31.5)	9/16"(14)	3/4"(19)	–
1-7/8"(48)	25/32"(20)	25/32"(20)	9/32"(7)	9/32"(7)	1-1/4"(31.5)	9/16"(14)	23/32"(18)	–
1-29/32"(49)	25/32"(20)	25/32"(20)	9/32"(7)	9/32"(7)	1-1/4"(31.5)	9/16"(14)	21/32" (17)	–
1-31/32"(50)	25/32"(20)	25/32"(20)	9/32"(7)	9/32"(7)	1-1/4"(31.5)	9/16"(14)	5/8"(16)	–

Premium XL 80 Telescopic (TEL)

Glass door sets with moving floor guide — Mounted to wall
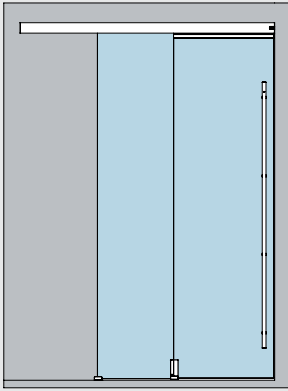
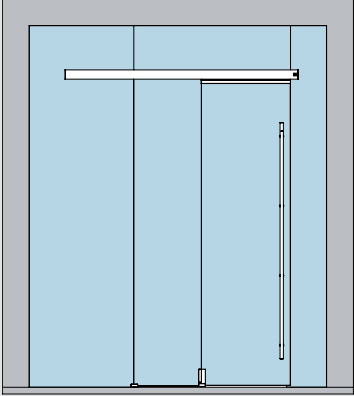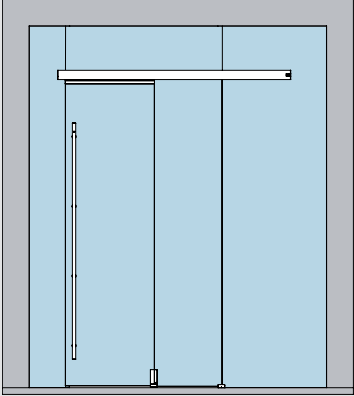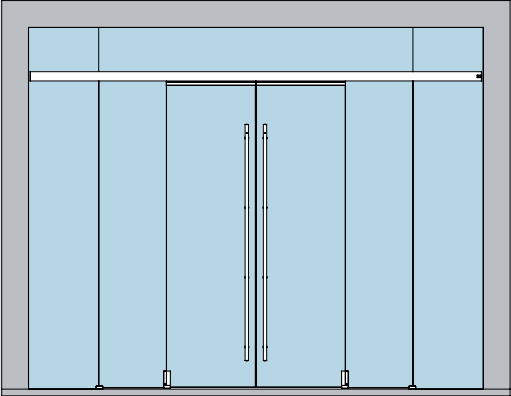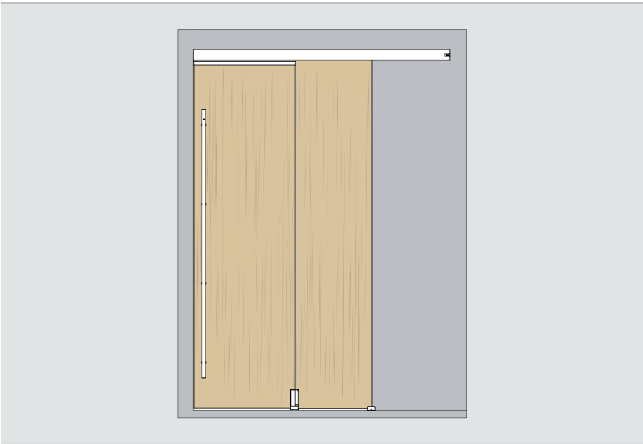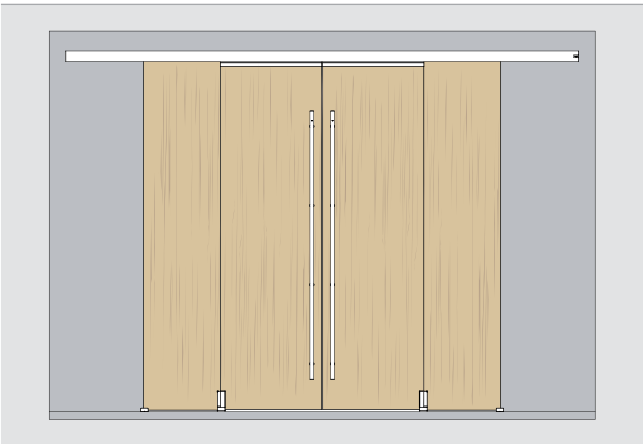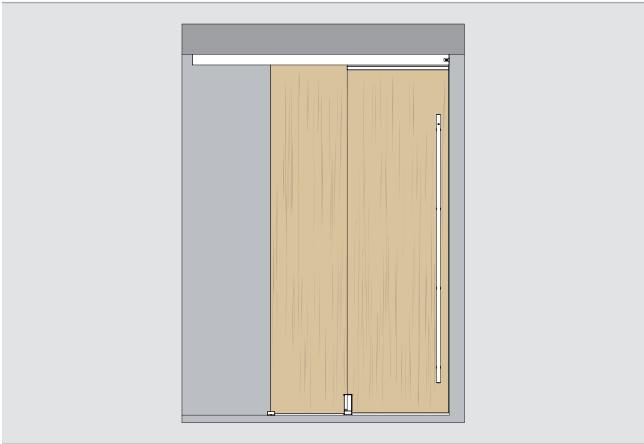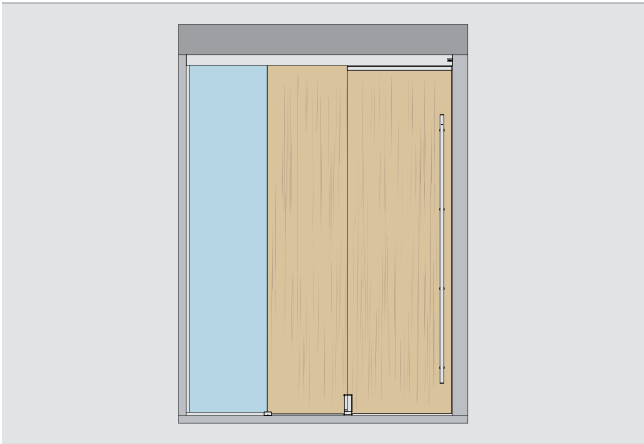|	
Premium XL 80 (TEL) Telescopic	**Ref. No. 836.701**
Set 1	
For wall installation, with moving floor guide, 2 panels (left hand) Incl. track profile, cover profile and brushes	
Complete accessories for 5/16"–9/16" (8-13.5) glass thickness, max 176 lb (80 kg)	
Prepared for option DM (DORMOTION)	
Set 1.1	
For closing against 90° jamb	**Ref. No. 836.737**
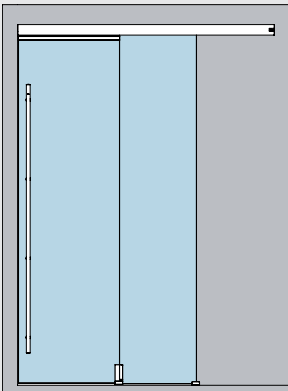
Premium XL 80 (TEL) Telescopic	**Ref. No. 836.702**
Set 2	
For wall installation, with moving floor guide, 2 panels (right hand) Incl. track profile, cover profile and brushes	
Complete accessories for 5/16"–9/16" (8-13.5) glass thickness, max 176 lb (80 kg)	
Prepared for option DM (DORMOTION)	
Set 2.1	
For closing against 90° jamb	**Ref. No. 836.738**
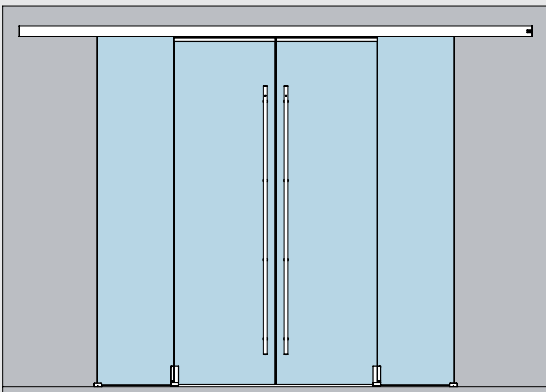
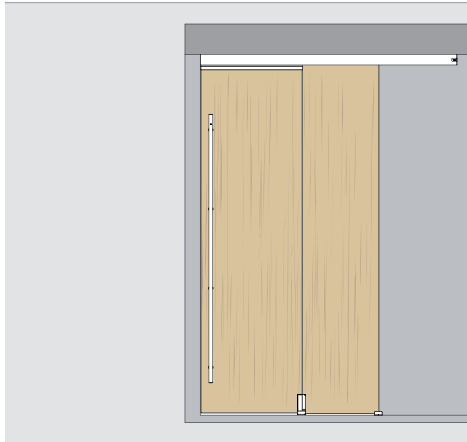|	
Premium XL 80 (TEL) Telescopic	**Ref. No. 836.709**
Set 3	
For wall installation, with moving floor guide, 4 panels (2 left hand/2 right hand) Incl. track profile, cover profile and brushes	
Complete accessories for 5/16"–9/16" (8-13.5) glass thickness, max 176 lb (80 kg)	
Prepared for option DM (DORMOTION)	

Premium XL 80 Telescopic (TEL)
Glass door sets with moving floor guide — Mounted to ceiling
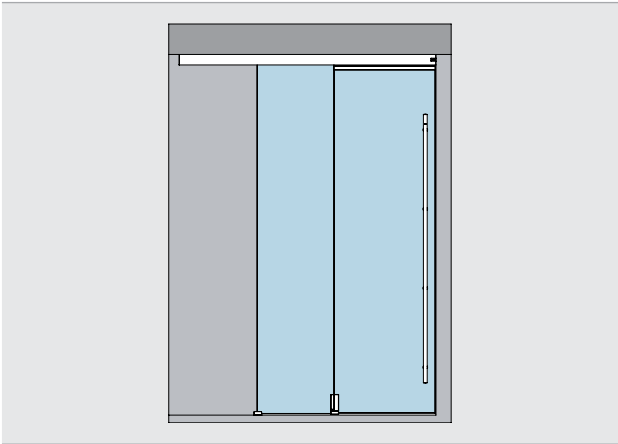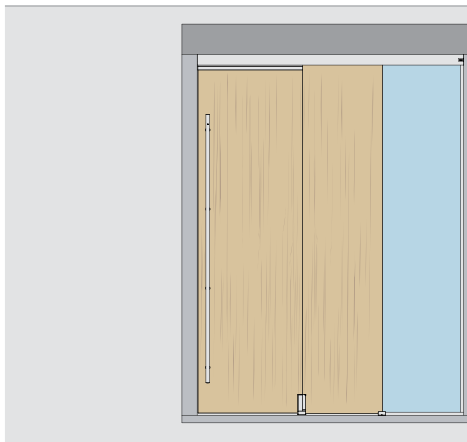

Premium XL 80 (TEL) Telescopic

Set 4

For ceiling installation, with moving floor guide, 2 panels (left hand) Incl. track profile, cover profile and brushes

Complete accessories for 5/16"–9/16" (8-13.5) glass thickness, max 176 lb (80 kg)

Prepared for option DM (DORMOTION)

Set 4.1

For closing against 90° jamb
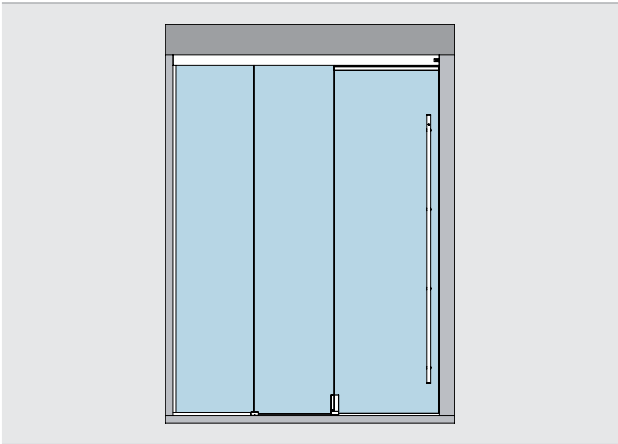
Ref. No. 836.703

Ref. No. 836.739

Premium XL 80 (TEL) Telescopic

Set 5

For ceiling by fixed panel sidelite installation, with moving floor guide, 2 panels (left hand) Incl. track profile, cover profile and brushes

Complete accessories for 5/16"–9/16" (8-13.5) glass thickness, max 176 lb (80 kg)

Prepared for option DM (DORMOTION)
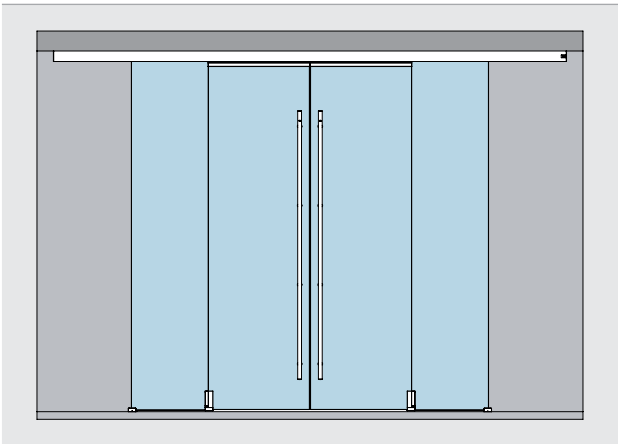
Ref. No. 836.704

Premium XL 80 (TEL) Telescopic

Set 6

For ceiling installation, with moving floor guide, 4 panels (2 left hand/2 right hand) Incl. track profile, cover profile and brushes

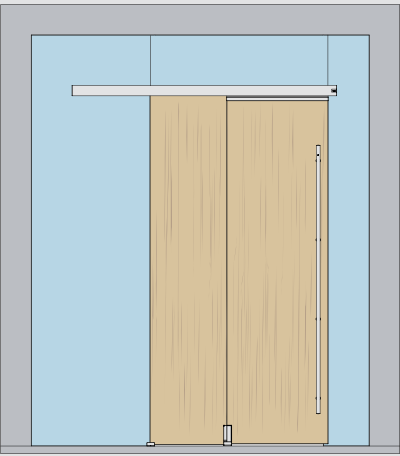Complete accessories for 5/16"–9/16" (8-13.5) glass thickness, max 176 lb (80 kg)

Prepared for option DM (DORMOTION)

Ref. No. 836.710

Premium XL 80 Telescopic (TEL)
Glass door sets with moving floor guide
— Mounted to ceiling
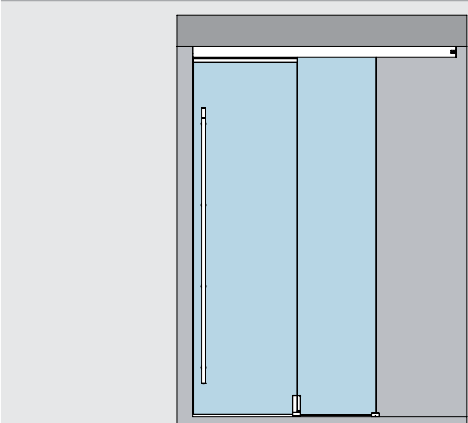
Premium XL 80 (TEL) Telescopic   **Ref. No. 836.705**

Set 7

For ceiling installation, with moving floor guide, 2
panels (right hand)
Incl. track profile, cover profile and brushes

Complete accessories for
5/16"–9/16" (8-13.5) glass thickness,
max 176 lb (80 kg)

Prepared for option DM (DORMOTION)

Set 7.1

For closing against 90° jamb   **Ref. No. 836.740**
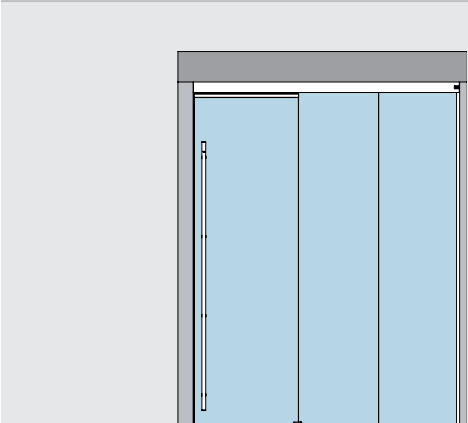
Premium XL 80 (TEL) Telescopic   **Ref. No. 836.706**

Set 8

for ceiling installation, with moving floor guide, 2
panels (right hand) with one fixed panel sidelite
Incl. track profile, cover profile and brushes

Complete accessories for
5/16"–9/16" (8-13.5) glass thickness,
max 176 lb (80 kg)

Prepared for option DM (DORMOTION)
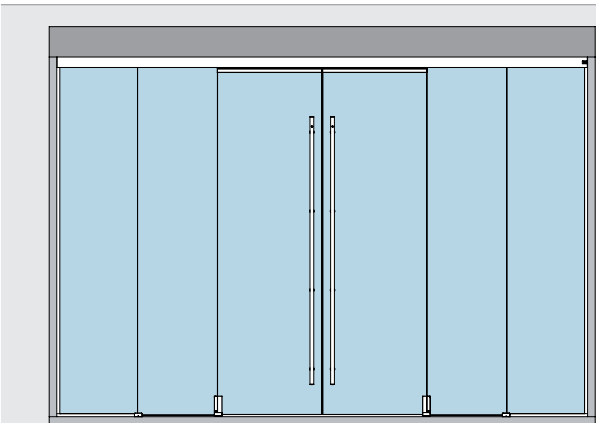
Premium XL 80 (TEL) Telescopic   **Ref. No. 836.711**

Set 9

For ceiling installation, with moving floor guide, 4
panels (2 left hand/2 right hand) and one fixed
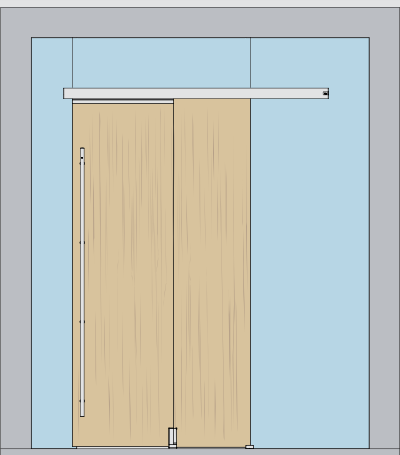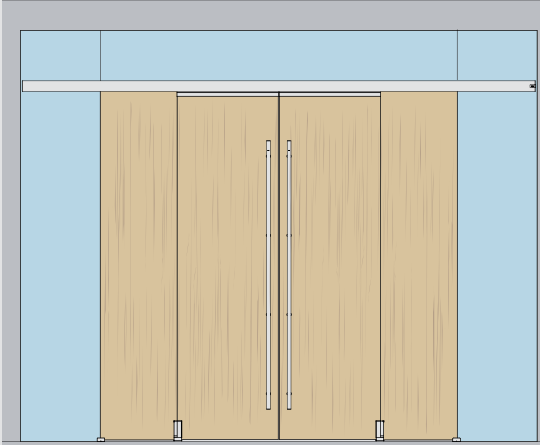panel sidelite per side
Incl. track profile, cover profile and brushes

Complete accessories for
5/16"–9/16" (8-13.5) glass thickness,
max 176 lb (80 kg)

Prepared for option DM (DORMOTION)

# Premium XL 80 Telescopic (TEL)
Glass door sets with moving floor guide
— Glass mounted

Premium XL 80 (TEL) Telescopic　　　　**Ref. No. 836.707**

Set 10

For installing on glass, with moving floor guide, 2 panels (left hand) Incl. track profile, cover profile and brushes

Complete accessories for
5/16"–9/16" (8-13.5) glass thickness,
max 176 lb (80 kg)

Prepared for option DM (DORMOTION)

Premium XL 80 (TEL) Telescopic　　　　**Ref. No. 836.708**

Set 11

For installing on glass, with moving floor guide,
2 panels (right hand) Incl. track profile, cover profile and brushes

Complete accessories for
5/16"–9/16" (8-13.5) glass thickness,
max 176 lb (80 kg)

Prepared for option DM (DORMOTION)

Premium XL 80 (TEL) Telescopic　　　　**Ref. No. 836.712**

Set 12

For installing on glass, with moving floor guide,
4 panels (2 left hand/2 right hand)
Incl. track profile, cover profile and brushes

Complete accessories for
5/16"–9/16" (8-13.5) glass thickness,
max 176 lb (80 kg)

Prepared for option DM (DORMOTION)

Premium XL 80 Telescopic (TEL)

Wood door sets with moving floor guide — Mounted to wall
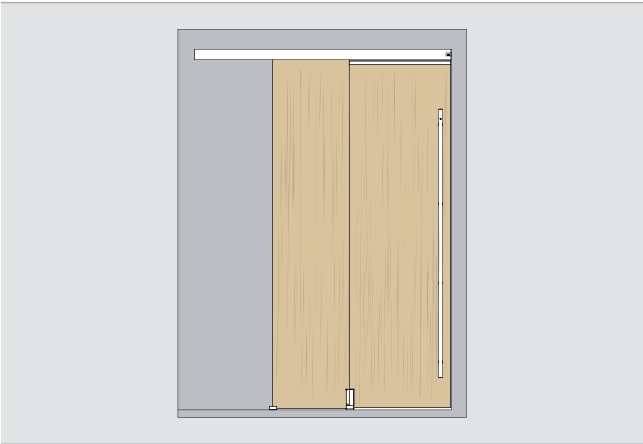
Premium XL 80 (TEL) Telescopic　　　　　　　**Ref. No. 836.725**

Set 25

For wall installation, with moving floor guide, 2 panels (left hand) Incl. track profile, cover profile and brushes

Complete accessories for 1-1/8"–1-31/32" (29–50) wood panel thickness, max 176 lb (80 kg)

Prepared for option DM (DORMOTION)

Set 25.1

For closing against 90° jamb

Ref. No. 836.792

Premium XL 80 (TEL) Telescopic　　　　　　　**Ref. No. 836.726**

Set 26

For wall installation, with moving floor guide, 2 panels (right hand) Incl. track profile, cover profile and brushes

Complete accessories for 1-1/8"–1-31/32" (29–50) wood panel thickness, max 176 lb (80 kg)

Prepared for option DM (DORMOTION)

Set 26.1

For closing against 90° jamb

Ref. No. 836.793

Premium XL 80 (TEL) Telescopic　　　　　　　**Ref. No. 836.733**

Set 27

For wall installation, with moving floor guide, 4 panels (2 left hand/2 right hand)Incl. track profile, cover profile and brushes

Complete accessories for 1-1/8"–1-31/32" (29–50) wood panel thickness, max 176 lb (80 kg)

Prepared for option DM (DORMOTION)

Premium XL 80 Telescopic (TEL)
Wood door sets with moving floor guide
— Mounted to ceiling

Premium XL 80 (TEL) Telescopic   **Ref. No. 836.727**

Set 28

For ceiling installation, with moving floor guide,
2 panels (left hand) Incl. track profile, cover
profile and brushes

Complete accessories for 1-1/8"–1-31/32"
(29–50) wood panel thickness,
max 176 lb (80 kg)

Prepared for option DM (DORMOTION)

Set 28.1

For closing against 90° jamb

                                                           Ref. No. 836.794

Premium XL 80 (TEL) Telescopic   **Ref. No. 836.728**

Set 29

For ceiling installation, with moving floor guide,
2 panels (left hand) with fixed panel sidelite
Incl. track profile, cover profile and brushes

Complete accessories for 1-1/8"–1-31/32"
(29–50) wood panel thickness,
max 176 lb (80 kg)

Prepared for option DM (DORMOTION)
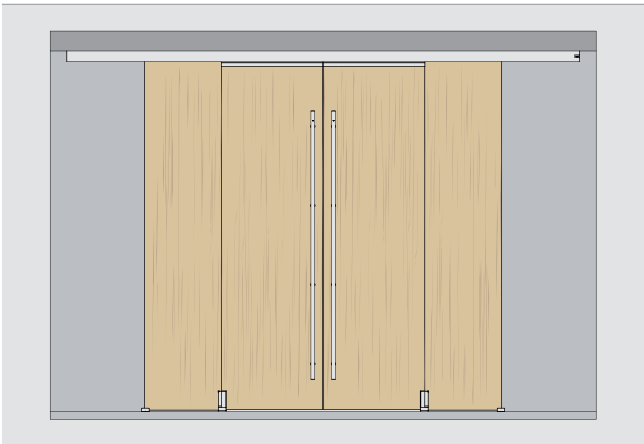
Premium XL 80 (TEL) Telescopic   **Ref. No. 836.734**

Set 30

For ceiling installation, with moving floor guide,
 4 panels (2 left hand/2 right hand)
Incl. track profile, cover profile and brushes

Complete accessories for 1-1/8"–1-31/32"
(29–50) wood panel thickness,
max 176 lb (80 kg)

Prepared for option DM (DORMOTION)

Premium XL 80 Telescopic (TEL)
Wood door sets with moving floor guide
— Mounted to ceiling

Premium XL 80 (TEL) Telescopic   **Ref. No. 836.729**

Set 31

For ceiling installation, with moving floor guide, 2 panels (right hand)
Incl. track profile, cover profile and brushes

Complete accessories for
1-1/8"–1-31/32" (29–50) wood panel thickness,
max 176 lb (80 kg)

Prepared for option DM (DORMOTION)

Set 31.1

For closing against 90° jamb

Ref. No. 836.795

Premium XL 80 (TEL) Telescopic   **Ref. No. 836.730**

Set 32

For ceiling installation, with moving floor guide, 2 panels (right hand) with fixed panel sidelite
Incl. track profile, cover profile and brushes

Complete accessories for
1-1/8"–1-31/32" (29–50) wood panel thickness,
max 176 lb (80 kg)

Prepared for option DM (DORMOTION)
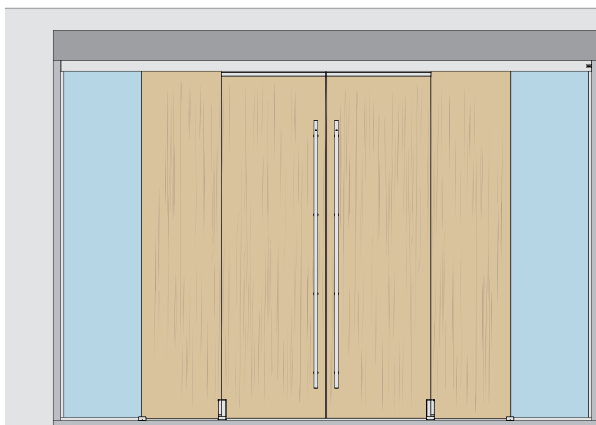
Premium XL 80 (TEL) Telescopic   **Ref. No. 836.735**

Set 33

For ceiling installation, with moving floor guide, 4 panels (2 left hand/2 right hand) with one fixed panel sidelite per side
Incl. track profile, cover profile and brushes

Complete accessories for
1-1/8"–1-31/32" (29–50) wood panel thickness,
max 176 lb (80 kg)

Prepared for option DM (DORMOTION)

Premium XL 80 Telescopic (TEL)
Wood door sets with moving floor guide
— Glass mounted

Premium XL 80 (TEL) Telescopic　　　**Ref. No. 836.731**

Set 34

For installing on glass, with moving floor guide, 2 panels (left hand) Incl. track profile, cover profile and brushes

Complete accessories for 1-1/8"–1-31/32" (29–50) wood panel thickness, max 176 lb (80 kg)

Prepared for option DM (DORMOTION)

Premium XL 80 (TEL) Telescopic　　　**Ref. No. 836.732**

Set 35

For installing on glass, with moving floor guide, 2 panels (right hand) Incl. track profile, cover profile and brushes

Complete accessories for 1-1/8"–1-31/32" (29–50) wood panel thickness, max 176 lb (80 kg)

Prepared for option DM (DORMOTION)

Premium XL 80 (TEL) Telescopic　　　**Ref. No. 836.736**

Set 36

For installing on glass, with moving floor guide, 4 panels (2 left hand/2 right hand) Incl. track profile, cover profile and brushes

Complete accessories for 1-1/8"–1-31/32" (29–50) wood panel thickness, max 176 lb (80 kg)

Prepared for option DM (DORMOTION)

Comfort L 80 DORMOTION (DM) / L 80
Typical assemblies mounted to wall
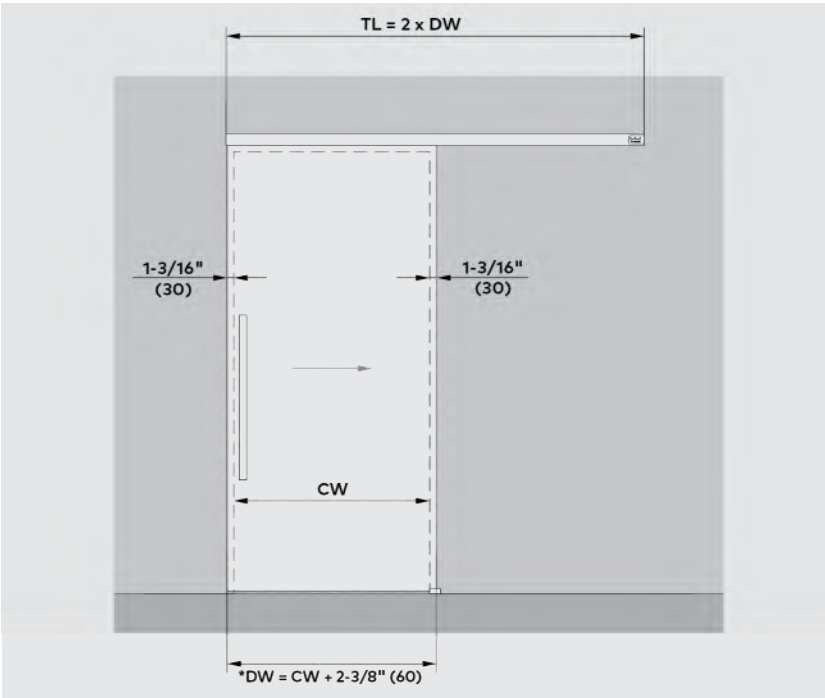
*DW = CW + 2-3/8" (60)

Features and data
For installation with one or two sliding door panels mounted to wall; for 5/16"– 9/16" (8 – 13.5) thick glass

Max weight of door panels
176 lb (80 kg)

Calculation of glass height
GH = CH + 3/4" (18) + X
(see drawing) max 118-1/8" (3000)
Calculation of glass width
DW = CW + 2-3/8" (60)

	L 80 DM
min DW	26" (660)
max DW	57" (1448)
max 2P DW	2 x 57" (1448)

	L 80
min DW	26" (660)
max DW	57" (1448)
max 2P DW	2 x 57" (1448)

* If single door panel closes against jamb or only overlaps on one side, subtract 1-3/16" (30) from formula.

Mounted to wall (W)
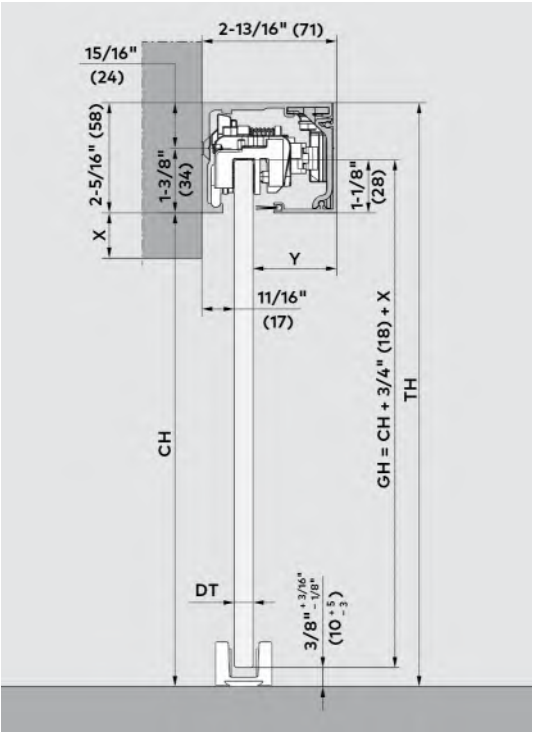
DW = Glass width
TL = Track length
GH = Glass height
TH = Total height
CH = Clear opening height
CW = Clear opening width
DT = Door (glass) thickness
Y = 2-13/16" (71) – 11/16" (17) – DT
X = Bottom of track channel to top of clear opening

Comfort L 80 DORMOTION (DM) / L 80
Typical assemblies mounted to ceiling
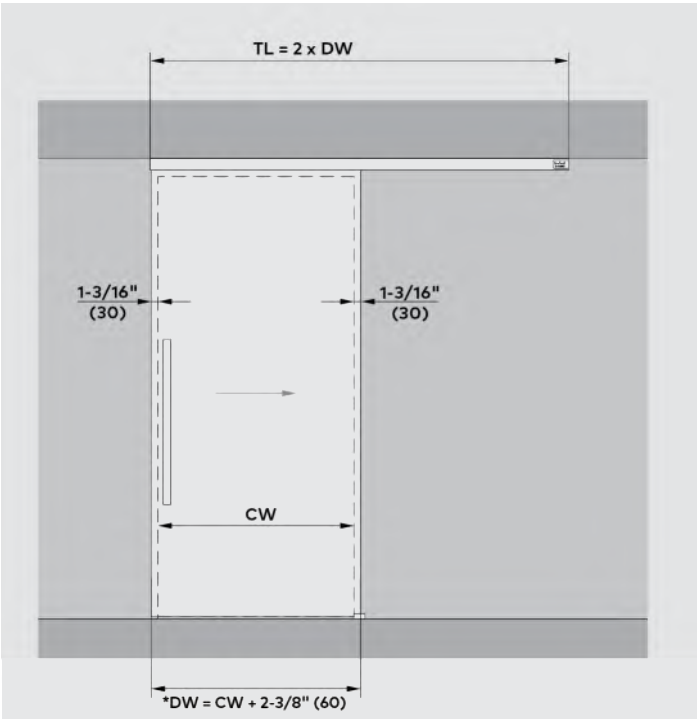
*DW = CW + 2-3/8" (60)

* If single door panel closes against jamb or only overlaps on one side, subtract 1-3/16" (30) from formula.

Features and data

For installation with one or two sliding door panels mounted to wall; for 5/16"– 9/16" (8 – 13.5) thick glass
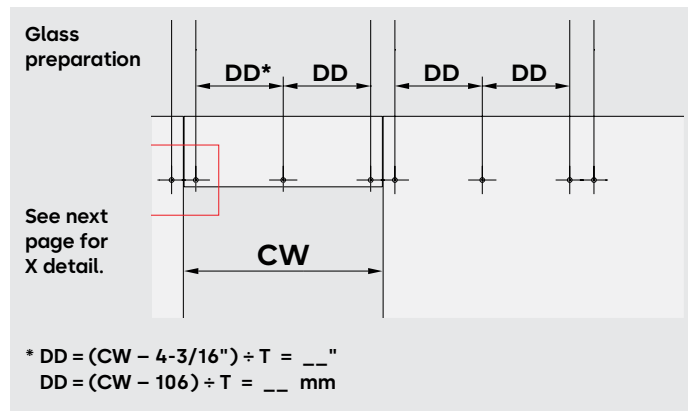
Max weight of door panels

176 lb (80 kg)

Calculation of glass height (CE-S)

$GH = TH - 1\text{-}9/16"$ (40)

max 118-1/8" (3000)

Calculation of glass width

$DW = CW + 2\text{-}3/8"$ (60)

	L 80 DM
min DW	26" (660)
max DW	57" (1448)
max 2P DW	2 x 57" (1448)

	L 80
min DW	26" (660)
max DW	57" (1448)
max 2P DW	2 x 57" (1448)

Mounted to ceiling (CE-S)
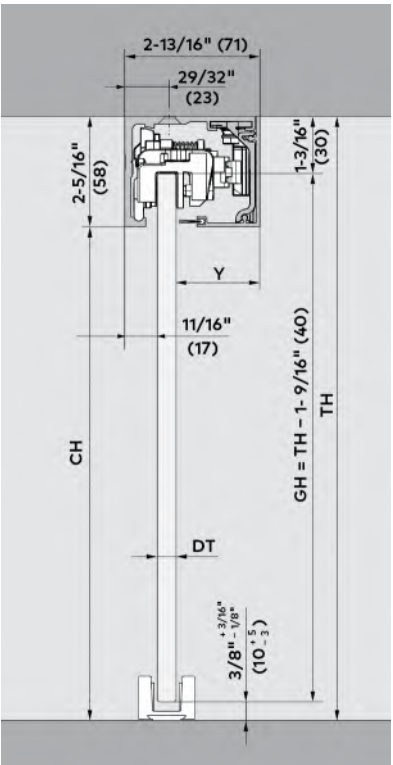
DW	=	Glass width
TL	=	Track length
GH	=	Glass height
TH	=	Total height
CH	=	Clear opening height
CW	=	Clear opening width
DT	=	Door (glass) thickness
Y	=	2-13/16" (71) – 11/16" (17) – DT

Comfort L 80 DORMOTION (DM) / L 80
Typical assemblies with one sliding panel and fixed panel on one side
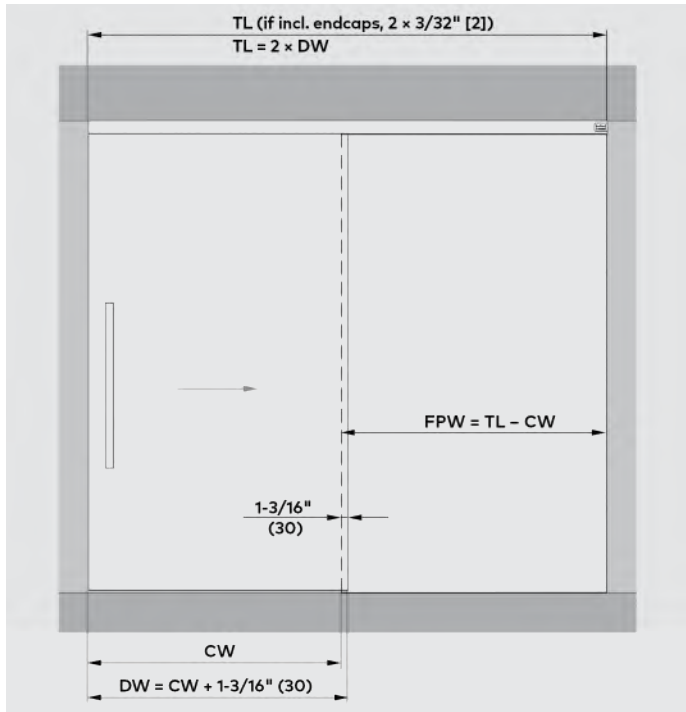
Features and data
For installation with one sliding door panel with fixed panel on one side, mounted to ceiling; for 5/16"– 9/16" (8 – 13.5) thick glass.

Max weight of door panels
176 lb (80 kg)

Calculation of glass width
DW = CW + 1-3/16" (30)

	L 80 DM
min DW	26" (660)
max DW	57" (1448)
	L 80
min DW	26" (660)
max DW	57" (1448)

Mounted to ceiling (CE-S)

Calculation of glass height (CE-S)
GH = TH - 1- 9/16" (40)
FPH = CH + 1/8" (3)
max 118-1/8" (3000)

DW	=	Glass width
TL	=	Track length
GH	=	Glass height sliding door
FPH	=	Fixed panel (sidelite) height
TH	=	Total height
CH	=	Clear opening height
CW	=	Clear opening width
FPW	=	Fixed panel (sidelite) width
DT	=	Door (glass) thickness
FPT	=	Fixed panel (glass) thickness
Y	=	2-13/16" (71) – 11/16" (17) – DT

Comfort L 80 DORMOTION (DM) / L 80

Typical assemblies with one sliding panel and fixed panels on both sides

Features and data

For installation with one sliding door panel with fixed panels on both sides, mounted to ceiling; for 5/16"– 9/16" (8 – 13.5) thick glass.

Max weight of door panels

176 lb (80 kg)

Calculation of glass width

DW = CW + 2-3/8" (60)

	L 80 DM
min DW	26" (660)
max DW	57" (1448)
	L 80
min DW	26" (660)
max DW	57" (1448)

Mounted to ceiling (CE-S)

Calculation of glass height (CE-S)

GH = TH - 1- 9/16" (40)

FPH = CH + 1/8" (3)

max 118-1/8" (3000)

DW	=	Glass width
TL	=	Track length
GH	=	Glass height sliding door
FPH	=	Fixed panel (sidelite) height
TH	=	Total height
CH	=	Clear opening height
CW	=	Clear opening width
FPW1	=	Fixed panel (sidelite) width 1
FPW2	=	Fixed panel (sidelite) width 2
DT	=	Door (glass) thickness
FPT	=	Fixed panel (glass) thickness
Y	=	2-13/16" (71) – 11/16" (17) – DT

Comfort L 80 DORMOTION (DM) / L 80

Typical assemblies with two sliding panels with fixed panels on both sides
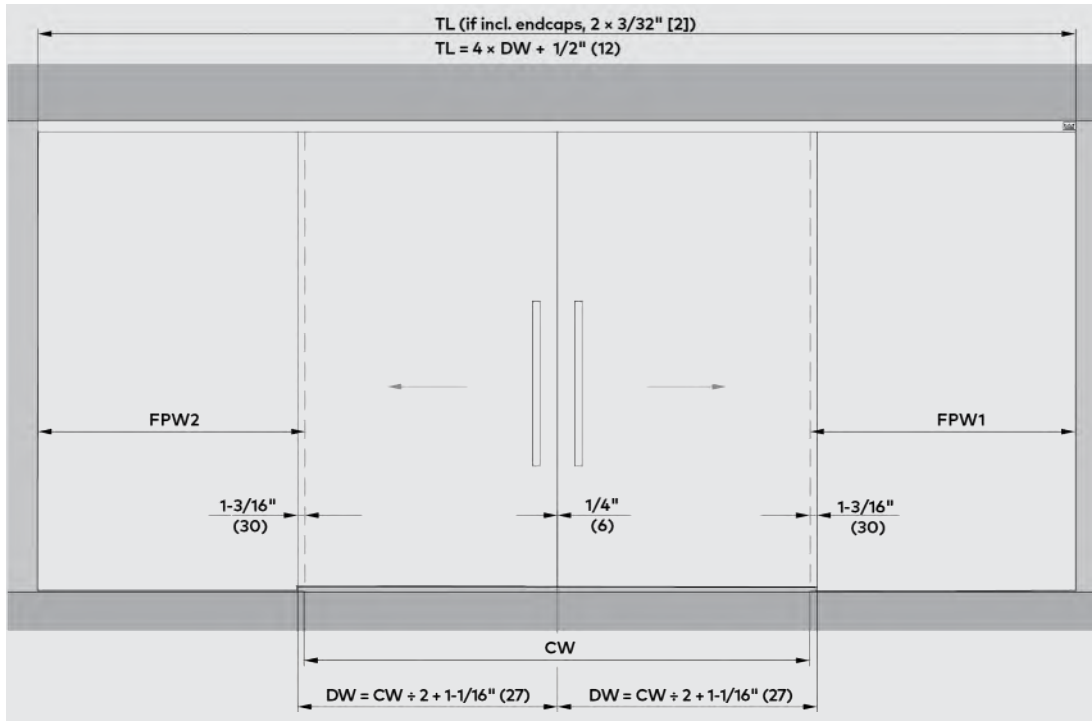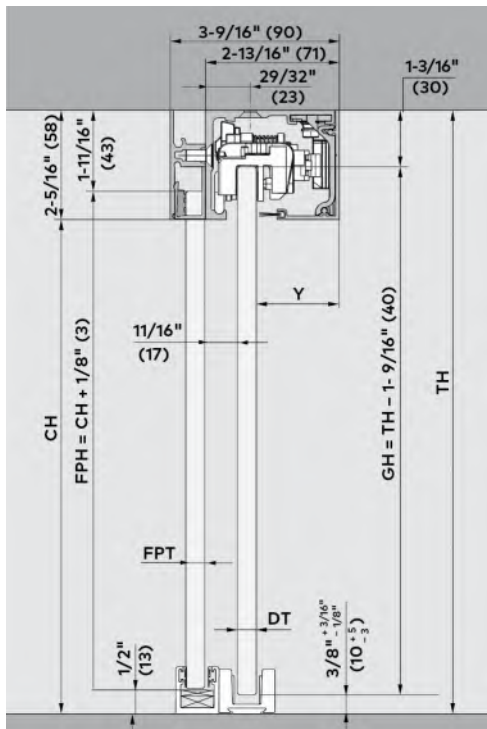
TL (if incl. endcaps, 2 × 3/32" [2])
TL = 4 × DW + 1/2" (12)

FPW2

FPW1

1-3/16"
(30)

1/4"
(6)

1-3/16"
(30)

CW

DW = CW ÷ 2 + 1-1/16" (27)   DW = CW ÷ 2 + 1-1/16" (27)

Mounted to ceiling (CE-S)

3-9/16" (90)
2-13/16" (71)
29/32" (23)
1-3/16" (30)
2-5/16" (58)
1-11/16" (43)
Y
11/16" (17)
GH = TH – 1-9/16" (40)
TH
CH
FPH = CH + 1/8" (3)
FPT
DT
3/8" +3/16"/−1/8" (10 +5/−3)
1/2" (13)

Features and data

For installation with two sliding door panels with fixed panels on both sides; for 5/16"– 9/16" (8 – 13.5) thick glass.

Max weight of door panels

176 lb (80 kg)

Calculation of glass width

DW = CW÷2 + 1-1/16" (27)

DW =	Glass width
TL =	Track length
GH =	Glass height sliding door
FPH =	Fixed panel (sidelite) height
TH =	Total height
CH =	Clear opening height
CW =	Clear opening width
FPW1 =	Fixed panel (sidelite) width
FPW2 =	Fixed panel (sidelite) width
DT =	Door (glass) thickness
FPT =	Fixed panel (glass) thickness
Y =	2-13/16" (71) – 11/16" (17) – DT

Calculation of glass height

GH = TH – 1-9/16" (40)

FPH = CH + 1/8" (3)

max 118-1/8" (3000)

	L 80 DM
min DW	2 x 26" (660)
max DW	2 x 57" (1448)

	L 80
min DW	2 x 26" (660)
max DW	2 x 57" (1448)

Comfort L 80 DORMOTION (DM) / L 80
Typical assemblies for wood doors
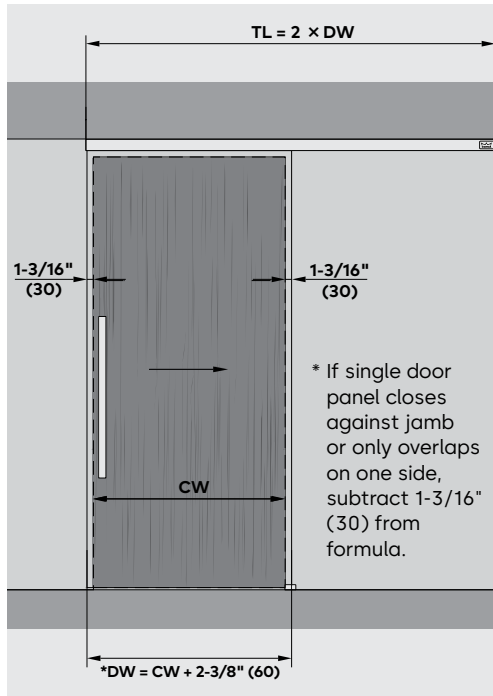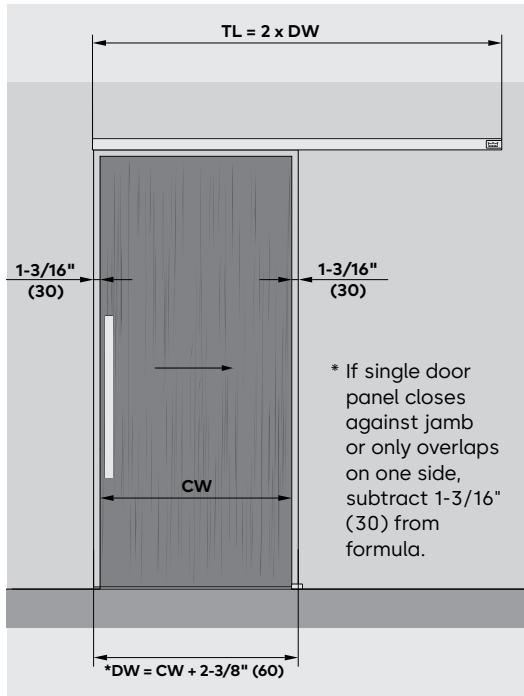
Mounted to wall (W)

Mounted to ceiling (CE-S)

Features and data
For installation with wood door; mounted to wall or ceiling; for 1-1/8"– 1-31/32" (28 – 50) thick wood doors.

Max weight of door panels
176 lb (80 kg)

Calculation of door height
DH = CH + 3/4" (18) + X (wall)
DH = TH – 3" (76) (ceiling)
max 118-1/8" (3000)

Calculation of door width
DW = CW + 2-3/8" (60)

DW =	Door width
TL =	Track length
TH =	Total height
CH =	Clear opening height
CW =	Clear opening width
DH =	Door height
DT =	Door (wood) thickness
Y =	3-15/16" (100) – 5/16" (7) – DT
X =	Bottom of track channel to top of clear opening
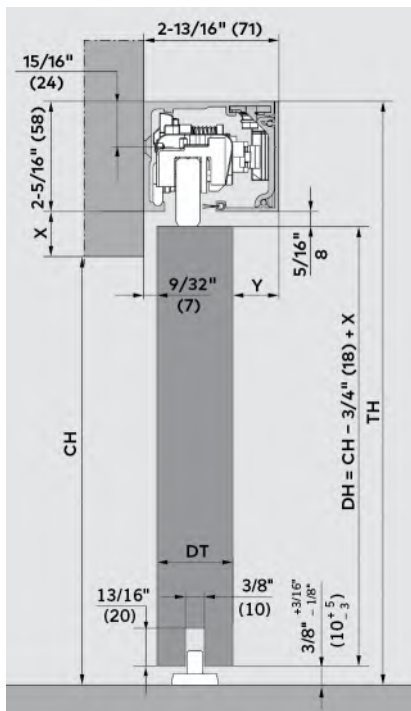
	L 80 DM
min DW	26" (660)
max DW	60" (1524)
max DW	2 60" (1524)

	L 80
min DW	26" (660)
max DW	60" (1524)
max DW	2 60" (1524)

Comfort L 80 DORMOTION (DM) / L 80
Typical assemblies mounted on glass with one sliding panel
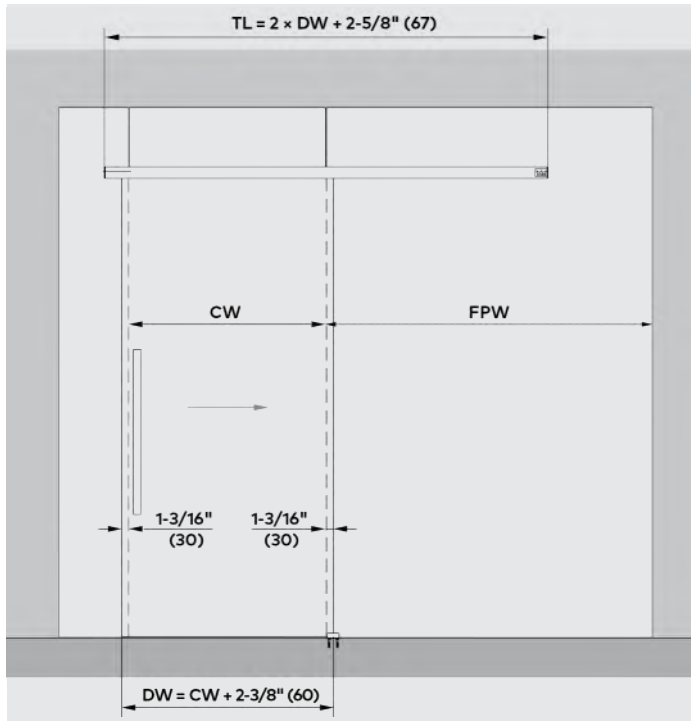
Note: To ensure a correct and aligned mounting of the track rail, a full supporting fixed panel must be installed.

Features and data
For installation with one sliding panel mounted on glass; for 5/16"– 9/16" (8 – 13.5) thick glass

Max weight of door panels
176 lb (80 kg)

	L 80 DM	L 80
min DW	26" (660)	26" (660)
min CW	23" (600)	23-5/8" (600)
max DW	57" (1448)	57" (1448)
max CW	54-5/8" (1388)	54-5/8" (1388)

Calculation of glass height
GH = TH − 1-9/16" (40)
max 118-1/8" (3000)

Calculation of glass width
DW = CW + 2-3/8" (60)

Glass preparation

See next page for X detail.

* DD = (CW − 4-3/16") ÷ T = __"
  DD = (CW − 106) ÷ T = __ mm

Calculation example
DD = (27-9/16"− 4-3/16") ÷ 2 = 11-11/16"
DD = (700 − 106) ÷ 2 = 297

T = Formula Value
Z = Quantity of holes
   to drill
The total quantity of holes (Z) depends on clear opening width (CW) and determines the final drilling distance (DD).

				T	Z
CW	≥	23-5/8"	(600)	2	8
	≤	31-1/2"	(800)		
CW	>	31-1/2"	(800)	3	10
	≤	39-3/8"	(1000)		
CW	>	39-3/8"	(1000)	4	12
	≤	47-1/4"	(1200)		
CW	>	47-1/4"	(1200)	5	14
	≤	54-5/8"	(1388)		

- Use the equation to determine (DD) drilling distance (hole spacing) at defined (DD) locations.
- Provide (CW) clear opening width to determine value for (T).
- Insert value for (T) to formula equation to calculate (DD) drilling distance.

Comfort L 80 DORMOTION (DM) / L 80
Typical assemblies mounted on glass with two sliding panels

Features and data

For installation with two sliding panels mounted on glass; for 5/16"– 9/16" (8 – 13.5) thick glass

Max weight of door panels

176 lb (80 kg)

Calculation of glass height

GH = TH − 1-9/16" (40)
max 118-1/8" (3000)

Calculation of glass width

DW = CW÷2 + 1-1/16" (27)

	L 80 DM	L 80
min DW	26" (660)	26" (660)
min CW	49-13/16" (1266)	49-13/16" (1266)
max DW	57" (1448)	57" (1448)
max CW	111-7/8" (2842)	111-7/8" (2842)

Calculation example

DD = (55-1/8" − 4-3/16" − 6-11/16") ÷ 4 = 11-1/16"
DD = (1400 − 106 − 170) ÷ 4 = 281

				T	Z
CW	≥ ≤	49-13/16" 59-1/16"	(1266) (1500)	4	14
CW	> ≤	59-1/16" 78-3/4"	(1500) (2000)	6	18
CW	> ≤	78-3/4" 111-7/8"	(2000) (2842)	8	22

T = Formula Value
Z = Quantity of holes to drill
- The total quantity of holes (Z) depends on clear opening width (CW) and determines the final drilling distance (DD).
- Use the equation to determine (DD) drilling distance (hole spacing) at defined (DD) locations.
- Provide (CW) clear opening width to determine value for (T).
- Insert value for (T) to formula equation to calculate (DD) drilling distance.

Refer to Elevation drawing on previous page.

Glass preparation

See below for X detail.

* DD = (CW − 4-3/16" − 6-11/16") ÷ T = __"
DD = (CW − 106 − 170) ÷ T = __ mm

DW	=	Glass width
Z	=	Quantity of drillings
TL	=	Track length
DD	=	Drilling distance
TH	=	Total height
CH	=	Clear opening height
CW	=	Clear opening width
GH	=	Door height
FPW1	=	Fixed panel (glass) width 1
FPW2	=	Fixed panel (glass) width 2
T	=	Formula value to determine DD
DT	=	Door (glass) thickness 3/8" − 3/4" (10 − 19)
FPT	=	Fixed panel (glass) thickness
Y	=	2-13/16" (71) − 11/16" (17) − DT

X detail

Comfort L 80 DORMOTION (DM) / L 80
Sliding door sets with one sliding panel and one or two fixed panels, ceiling surface installation

Incl. track/endcaps, cover, cover clips, gasket, end stops, roller carriers, DORMOTION[1] , DM start/stops[1], floor guide, sidelite profile and gasket, sidelite filler profile, sidelite endcaps, U-Channel and gasket, and sidelite mounting hardware. (Sidelite view profile included if appropriate.)

Complete accessories for 5/16"– 9/16" (8 – 13.5) thick glass. L 80 DM / L 80 max 176 lb (80 kg).

[1] L 80 set does not include DORMOTION or DM start/stops.

1P ceiling surface by 1FP or 2FP

Sidelite view protection profile not included in kits for single fixed panel (1P Ceiling Surface by 1FP)

1P ceiling surface by 1FP – Set for ceiling surface installation with one sliding panel and one fixed panel.

	Min panel width	Min clear opening width	Max panel width[2]	Max clear opening width[2]	Max track length[2]	Ref. No.
1P L 80 DM CE-S 1FP						
MTO	26" (660)	23-5/8" (600)	57" (1448)	54-5/8" (1388)	157-1/2" (4000)	**236.389**
1P L 80 CE-S 1FP						
MTO	26" (660)	23-5/8" (600)	57" (1448)	54-5/8" (1388)	157-1/2" (4000)	**236.388**

1P ceiling surface by 2FP – Set for ceiling surface installation with one sliding panel and two fixed panels.

	Min panel width	Min clear opening width	Max panel width[2]	Max clear opening width[2]	Max track length[2]	Ref. No.
1P L 80 DM CE-S 2FP						
MTO	26" (660)	23-5/8" (600)	57" (1448)	54-5/8" (1388)	157-1/2" (4000)	**236.391**
1P L 80 CE-S 2FP						
MTO	26" (660)	23-5/8" (600)	57" (1448)	54-5/8" (1388)	157-1/2" (4000)	**236.390**

2P ceiling surface by 2FP

2P ceiling surface by 2FP – Set for ceiling surface installation with two sliding panels and two fixed panels.

	Min panel width	Min clear opening width	Max panel width[2]	Max clear opening width[2]	Max track length[2]	Ref. No.
2P L 80 DM CE-S 2FP						
MTO	26" (660)	23-5/8" (600)	57" (1448)	111-7/8" (2842)	157-1/2" (4000)	**236.393**
2P L 80 CE-S 2FP						
MTO	26" (660)	49-13/16" (1266)	57" (1448)	111-7/8" (2842)	157-1/2" (4000)	**236.392**

Note: Refer to Component parts section for wood door adapter options.

[2] For 157-1/2" track lengths, only 154" are useable. Max wood door sizes can be increased by 3" (76), MTO only.

Comfort L 80 DORMOTION (DM) / L 80
Sliding door sets with one sliding panel

Incl. track/endcaps, cover, cover clips, gasket, end stops, roller carriers, DORMOTION[1], DM start/stops[1], and floor guide. Complete accessories for 5/16"– 9/16" (8 – 13.5) thick glass.

L 80 DM / L 80 max 176 lb (80 kg)

[1] L 80 set does not include DORMOTION or DM start/stops.
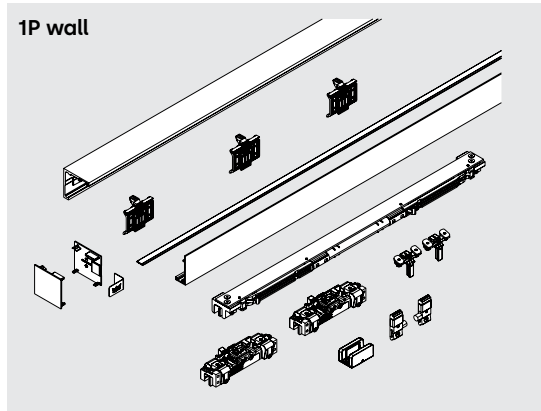
1P wall

1P wall installation – Set for wall installation with one sliding panel.

	Min panel width	Min clear opening width	Max panel width[2]	Max clear opening width[2]	Max track length[2]	Ref. No.
1P L 80 DM W						
STK	26" (660)	23-5/8" (600)	57" (1448)	54-5/8" (1388)	157-1/2" (4000)	**836.326**
MTO	26" (660)	23-5/8" (600)	57" (1448)	54-5/8" (1388)	157-1/2" (4000)	**236.326**
1P L 80 W						
STK	26" (660)	23-5/8" (600)	57" (1448)	54-5/8" (1388)	157-1/2" (4000)	**836.301**
MTO	26" (660)	23-5/8" (600)	57" (1448)	54-5/8" (1388)	157-1/2" (4000)	**836.320**

1P ceiling surface

1P ceiling surface installation – Set for ceiling surface installation with one sliding panel.

	Min panel width	Min clear opening width	Max panel width[2]	Max clear opening width[2]	Max track length[2]	Ref. No.
1P L 80 DM CE-S						
STK	26" (660)	23-5/8" (600)	57" (1448)	54-5/8" (1388)	157-1/2" (4000)	**836.327**
MTO	26" (660)	23-5/8" (600)	57" (1448)	54-5/8" (1388)	157-1/2" (4000)	**236.327**
1P L 80 CE-S						
STK	26" (660)	23-5/8" (600)	57" (1448)	54-5/8" (1388)	157-1/2" (4000)	**836.303**
MTO	26" (660)	23-5/8" (600)	57" (1448)	54-5/8" (1388)	157-1/2" (4000)	**836.321**
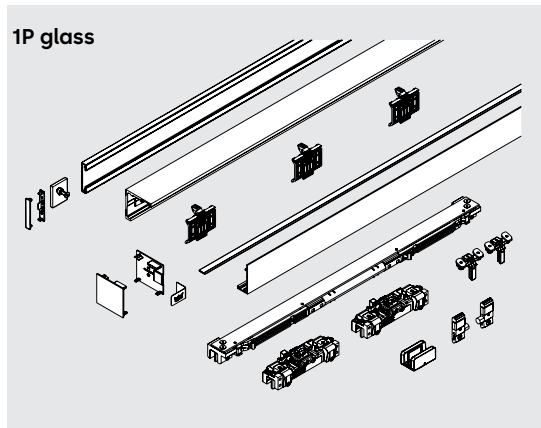
1P glass

1P glass installation – Set for glass installation with one sliding panel.

	Min panel width	Min clear opening width	Max panel width[2]	Max clear opening width[2]	Max track length[2]	Ref. No.
1P L 80 DM G						
MTO	26" (660)	23-5/8" (600)	57" (1448)	54-5/8" (1388)	157-1/2" (4000)	**236.328**
1P L 80 G						
MTO	26" (660)	23-5/8" (600)	57" (1448)	54-5/8" (1388)	157-1/2" (4000)	**836.322**

[2] For 157-1/2" track lengths, only 154" are useable.
  Max wood door sizes can be increased by 3" (76), MTO only.

Note: Refer to Component parts section for wood door adapter options.

Comfort L 80 DORMOTION (DM) / L 80
Sliding door sets with two sliding panels

Incl. track/endcaps, cover, cover clips, gasket, end stops, roller carriers, DORMOTION[1], DM start/stops[1], and floor guide.
Complete accessories for 5/16"– 9/16" (8 – 13.5) thick glass.
L 80 DM / L 80 max 176 lb (80 kg)

[1] L 80 set does not include DORMOTION or DM start/stops.
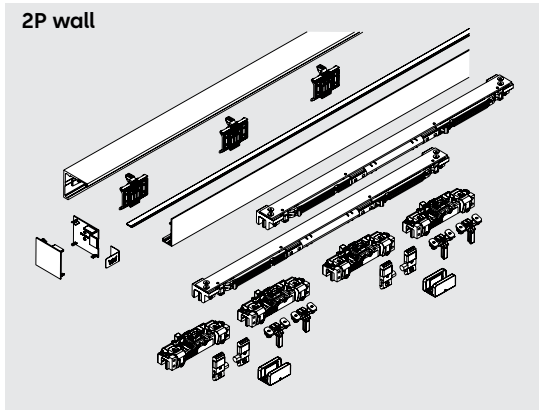
2P wall

2P wall installation – Set for wall installation with two sliding panels.

	Min panel width	Min clear opening width	Max panel width[2]	Max clear opening width[2]	Max track length[2]	Ref. No.
2P L 80 DM W						
MTO	26" (660)	49-13/16" (1266)	57" (1448)	111-7/8" (2842)	157-1/2" (4000)	**836.329**
2P L 80 W						
MTO	26" (660)	49-13/16" (1266)	57" (1448)	111-7/8" (2842)	157-1/2" (4000)	**836.323**

2P ceiling surface

2P ceiling surface installation – Set for ceiling surface installation with two sliding panels.

	Min panel width	Min clear opening width	Max panel width[2]	Max clear opening width[2]	Max track length[2]	Ref. No.
2P L 80 DM CE-S						
MTO	26" (660)	49-13/16" (1266)	57" (1448)	111-7/8" (2842)	157-1/2" (4000)	**836.330**
2P L 80 CE-S						
MTO	26" (660)	49-13/16" (1266)	57" (1448)	111-7/8" (2842)	157-1/2" (4000)	**836.324**
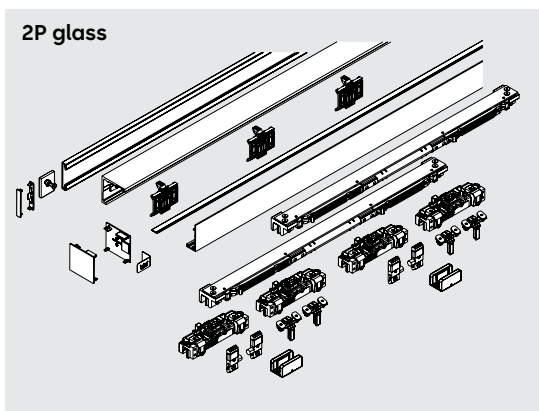
2P glass

2P glass installation – Set for glass installation with two sliding panels.

	Min panel width	Min clear opening width	Max panel width[2]	Max clear opening width[2]	Max track length[2]	Ref. No.
2P L 80 DM G						
MTO	26" (660)	49-13/16" (1266)	57" (1448)	111-7/8" (2842)	157-1/2" (4000)	**836.331**
2P L 80 G						
MTO	26" (660)	49-13/16" (1266)	57" (1448)	111-7/8" (2842)	157-1/2" (4000)	**836.325**
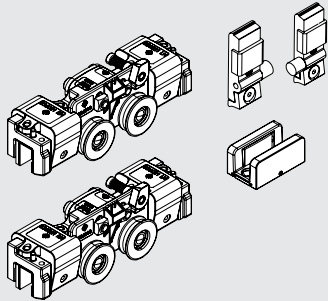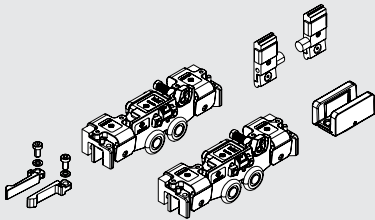
[2] For 157-1/2" track lengths, only 154" are useable.
 Max wood door sizes can be increased by 3" (76), MTO only.
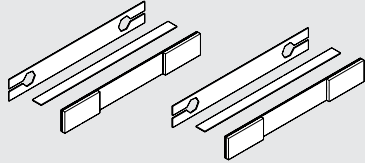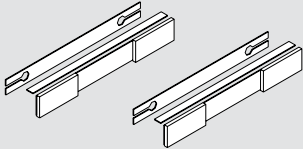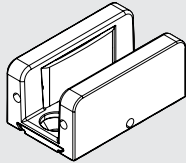
Note: Refer to Component parts section for wood door adapter options.

Component parts

Roller accessory kit, complete
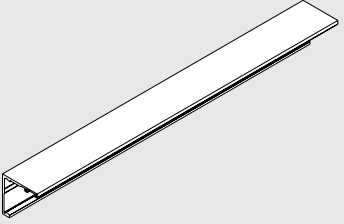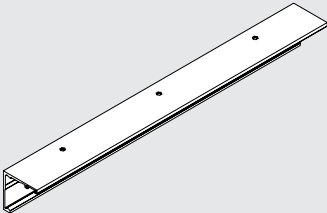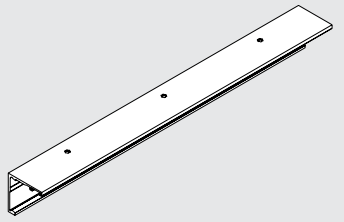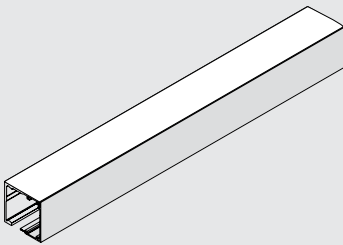
Premium XL 150/120/80 roller carriers

Accessory set for XL 150 DM, XL 150, XL 120 SC, XL 80 DM

Consisting of:
2 clamp carriers,

2 endstops, 1 floor guide, and non-DM hooks.
Ref. No. 836.550

Comfort L 80 roller carriers

Accessory set for use with L 80 DM and L 80.

Consisting of:
2 clamp carriers, 2 endstops, non-DM hook, and 1 floor guide

Ref. No. 36.349

Gasket sets

Premium XL 150/120/80 roller gaskets

Gasket set to service roller carriers for XL 150 DM, XL 150, XL 120 SC, XL 80 DM

Ref. No. 836.451

Comfort L 80 roller gasket set

Gasket set to service roller carriers

Ref. No. 836.251

MUTO glass door floor guide

Adjustable
5/16" – 17/32" (8 – 13)

Ref. No. 807.316
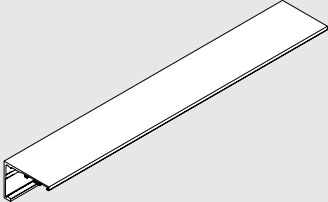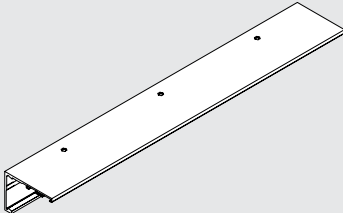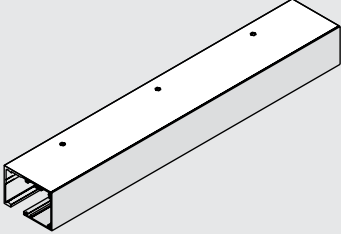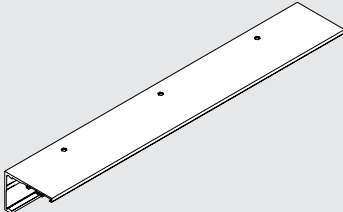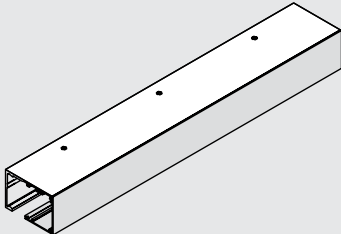
Component parts

Track and cover extrusions – XL 150/80 Systems

Premium XL 150/80 wall track

Track rail for wall installation for XL 150 DM, XL 150, XL 80 DM

Fixed length
157-1/2" (4000)
Ref. No. 936.552

Specify length (by ft.)
Ref. No. 836.553

Premium XL 150/80 ceiling fixed panel track

Track rail for ceiling, fixed panel surface mount for XL 150 DM, XL 150, XL 80 DM

Fixed length
157-1/2" (4000)
Ref. No. 936.562

Specify length (by ft.)
Ref. No. 936.563

Premium XL 150/80 ceiling track

Track rail for ceiling, surface mount for XL 150 DM, XL 150, XL 80 DM

Fixed length
157-1/2" (4000)
Ref. No. 936.554

Specify length (by ft.)
Ref. No. 836.555

Premium XL 150/80 cover

Cover profile for DORMOTION front cover for XL 150 DM, XL 150, XL 80 DM

Fixed length
157-1/2" (4000)
Ref. No. 936.566

Specify length (by ft.)
Ref. No. 836.567
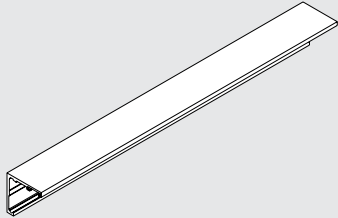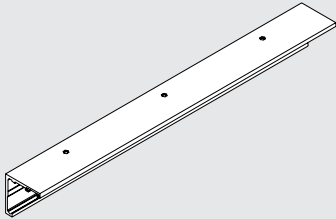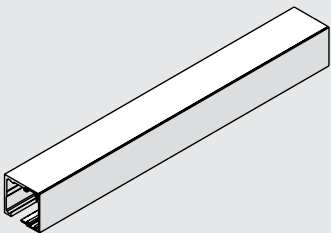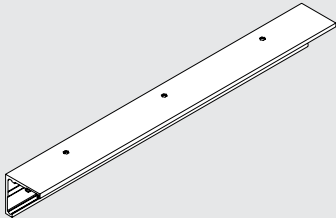
Component parts

Track and cover extrusions – XL 120 Systems

Premium XL 120 SC wall track

Track rail for
XL 120 Self-Closing
(SC) function for wall
installation

Fixed length
157-1/2" (4000)
Ref. No. 936.850

Specify length (by ft.)
Ref. No. 836.651

Premium XL 120 SC ceiling track

Track rail for ceiling surface
mount for XL 120 Self-
Closing (SC) function

Fixed length
157-1/2" (4000)
Ref. No. 936.852

Specify length (by ft.)
Ref. No. 836.653

Premium XL 120 cover profile

Cover profile for XL 120
Self-Closing function
front cover

Fixed length
157-1/2" (4000)
Ref. No. 936.854

Specify length (by ft.)
Ref. No. 836.655

Premium XL 120 SC ceiling fixed panel track

Track rail for ceiling, fixed
panel surface mount XL 120
Self-Closing (SC)

Fixed length
157-1/2" (4000)
Ref. No. 936.856

Specify length (by ft.)
Ref. No. 936.857

Premium XL 120 track front cover profile kit (CE-R)

Fixed length
157-1/2" (4000)
Ref. No. 936.656

Specify length (by ft.)
Ref. No. 936.657

Component parts

Track and cover extrusions – L 80 Systems

Comfort L 80 wall track

Track rail for
L 80 DM and L 80
wall installation

Fixed length
157-1/2" (4000)
Ref. No. 936.350

Specify length (by ft.)
Ref. No. 836.351

Comfort L 80 ceiling track

Track rail for
L 80 DM and L 80 ceiling
installation

Fixed length
157-1/2" (4000)
Ref. No. 936.352

Specify length (by ft.)
Ref. No. 836.353

Comfort L 80 cover

Cover profile for L 80 DM
and L 80

Fixed length
157-1/2" (4000)
Ref. No. 936.359

Specify length (by ft.)
Ref. No. 836.360

Comfort L 80 ceiling fixed panel track

Track rail for ceiling, fixed
panel surface mount for
L 80 DM and L 80 ceiling
installation

Fixed length
157-1/2" (4000)
Ref. No. 936.361

Specify length (by ft.)
Ref. No. 936.362

Cover clips

Cover clip for Premium XL systems

Ea.

Ref. No. 836.146

Cover clip for Comfort L and M systems

Ea.

Ref. No. 836.147

Fasteners packs

#12 fasteners and anchors
(5 ea.) for mounting
MUTO track profile.

Pk.

Ref. No. 936.995

M6x14 for mounting sidelite profile or drop ceiling profile.

Pk.

Ref. No. 807.585
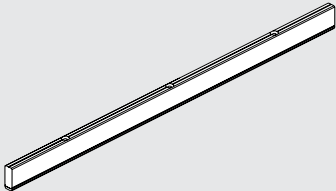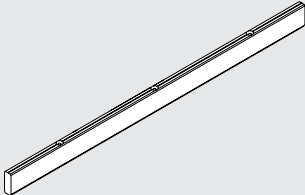
M6x35 for mounting drop ceiling profile.

Pk.

Ref. No. 836.585

Component parts

Wood adapter sets
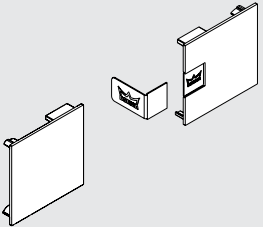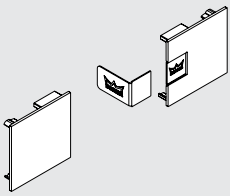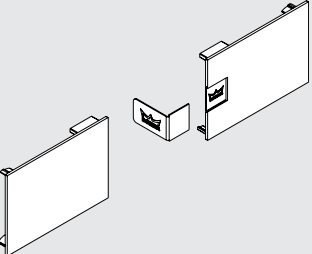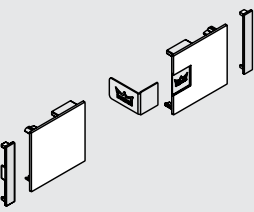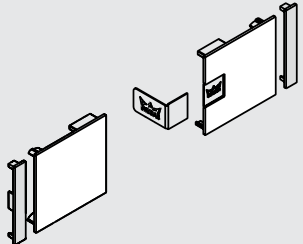
Premium XL 150 wood door kit

Wood door adapter set for use with all XL systems; incl. mounting screws, wood door guide(s), and shim for XL mount

Profile:
1/2" x 1-7/16" + 1/2" x 3/16"
(12.5 x 36 + 12.5 x 4)

Fixed full length
157-1/2" (4000)
Ref. No. 936.463

Fixed half length
78-3/4" (2000)
Ref. No. 936.461

Specify length (by ft.)
Ref. No. 936.464

Comfort L 80 wood door kit

Wood door adapter set for L 80 DM and L 80; incl. mounting screws and wood door guide(s)

Profile:
1/2" x 1-7/16" (12.5 x 36)

Fixed full length
157-1/2" (4000)
Ref. No. 936.262

Fixed half length
78-3/4" (2000)
Ref. No. 936.261

Specify length (by ft.)
Ref. No. 936.263

Wood door floor guide

MUTO wood door floor guide

Adjustable
5/16" – 17/32" (8 – 13)
Ref. No. 836.148
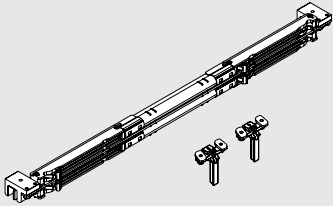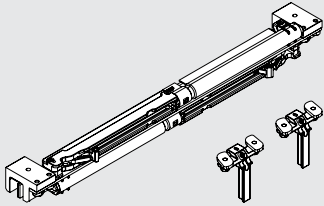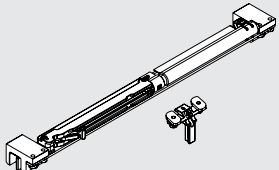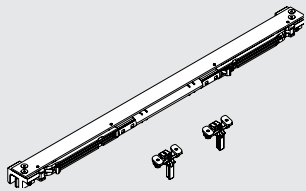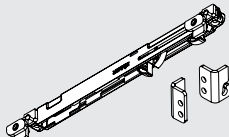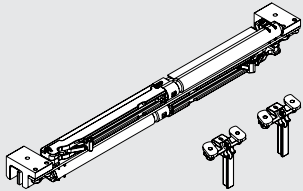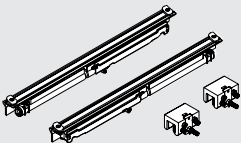
Component parts

Endcaps
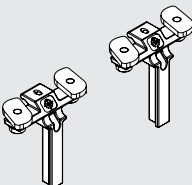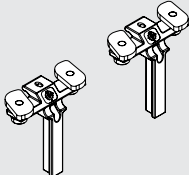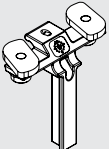
Premium XL 150/80 endcaps

Set endcaps for wall and ceiling installation for XL 150 DM, XL 150, XL 80 DM

Ref. No. 836.556

Comfort L 80 endcaps

Set endcaps for wall and ceiling installation for L 80 DM and L 80

Ref. No. 836.354

Premium XL 120 Self-Closing endcaps

Set endcaps for XL 120 SC for wall and ceiling installation

Ref. No. 836.656

Comfort L 80 glass mount endcaps

Set endcaps for installation on glass for L 80 DM and L 80

Ref. No. 836.260

Premium XL 150/80 glass mount endcaps

Set endcaps for installation on glass for XL 150 DM, XL 150, XL 80 DM

Ref. No. 836.460

Component parts

DORMOTION accessories
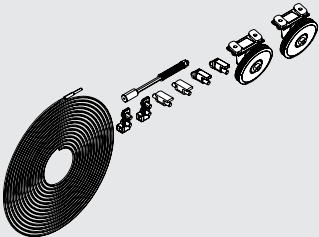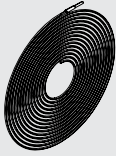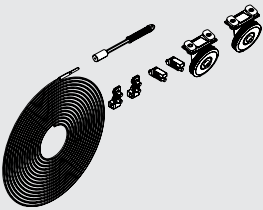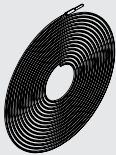
Premium XL 150 DORMOTION unit

DORMOTION unit for max 330 lb (150 kg), with set of DM start/stops (min glass width 40-1/8" [1020])

Ref. No. 836.558

Premium XL 80 DORMOTION unit

DORMOTION unit for max 176 lb (80 kg), with set of DM start/stops (min glass width 31-7/8" [810])

Ref. No. 836.557

Premium XL 120 DORMOTION unit

for Self-Closing function (closing direction only)

for max 264 lb (120 kg) with DM start/stop

Opening to right side (RH)
Ref. No. 836.660
Opening to left side (LH)
Ref. No. 836.661

Comfort L 80 DORMOTION unit

L 80 DORMOTION spring cushioning unit for max 176 lb (80 kg), min panel width 39" (991), with set of start/stops

Ref. No. 836.355

Premium XL 120 SC DMSC Accessory Set

Includes DORMOTION Cushion for opening cycle and 1 DM start/stop

Ref. No. 836.786

Premium XL 80 TEL DM Accessory Set

Includes DORMOTION Cushion and 2 DM start/stops

Ref. No. 836.786

Comfort L80 DORMOTION unit

L80 DORMOTION spring cushioning set for max 176 lb (80 kg), min panel width 26" (660) with set of start/stops

Ref. No. 836.361

DORMOTION start/stop kits
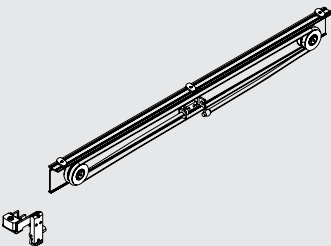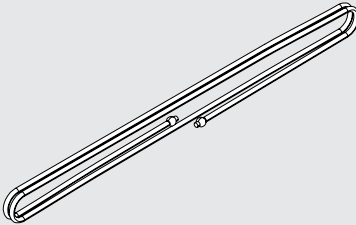
Premium XL DM start/stop set
DORMOTION start/stop set
Ref. No. 836.559

Comfort L 80 DM start/stop set

L 80 DORMOTION start/stop set

Ref. No. 836.356

Premium XL 120 Self-Closing start/stop

For Self-Closing DORMOTION
One piece service part

Ref. No. 836.662

Component parts
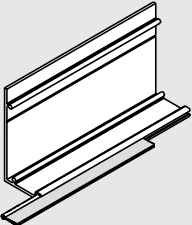
Synchro accessories

Premium XL 150 Synchro set (wire, pulley etc.)

Synchro set complete with accessories (Not compatible with XL 150 DM)

Ref. No. 836.560

Comfort Synchro service wire

Replacement cable for Synchro set

Ref. No. 836.358

Comfort L 80 Synchro set (wire, pulley etc.)

Synchro set complete with accessories

Ref. No. 836.357

Premium XL 80 TEL service cable

Replacement cable and bracket set; not compatible with
Synchro Cable

(Extended lead-time)

836.515.001.55 (LH)
836.515.002.55 (RH)

Self-closing accessories
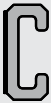
Premium XL 120 Self-Closing assembly

Flexi-cable unit for Self-Closing function, complete with accessories

Opening to right side (RH)
Ref. No. 836.657

Opening to left side (LH)
Ref. No. 836.658

Premium XL 120 Self-Closing flexi-cable

Flexi-cable for Self-Closing function

Service part

Ref. No. 836.659

Brush profiles
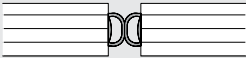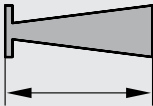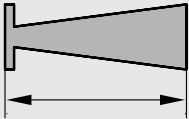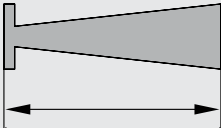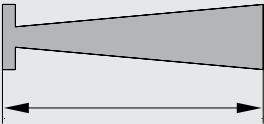
Comfort brush profile

Brush profile (slides into cover groove)

Specify length (by ft.)

for 5/16"– 3/8"
(8 – 10) glass
Ref. No. 836.912

for 1/2" – 9/16"
(12 – 13.5) glass
Ref. No. 836.913

Component parts

Brush seal carrier
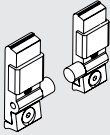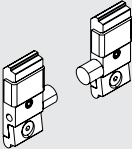
Premium/Comfort carrier profile

For vertical brush seal, aluminum color

Stock length
177-1/8" (4.5 m)
Ref. No. 836.826

Brush seals for XL 80 TEL
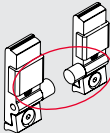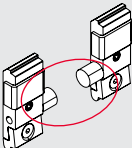
Premium/Comfort vertical bulb/Tubular seal

For leading edge of glass to jamb/glass to glass; clear-frost

Specify length (by ft.)
(2x required for pairs)
Ref. No. 815.509

Premium/Comfort vertical brush seal

For gaps 1/2"–5/8" (13–16) ; grey

Specify length (by ft.)
Ref. No. 836.860

Premium/Comfort vertical brush seal

For gaps >5/8"–3/4" (>16–19) ; grey

Specify length (by ft.)
Ref. No. 836.861

Premium/Comfort vertical brush seal

For gaps >3/8"–29/32" (>19–23) ; grey

Specify length (by ft.)
Ref. No. 836.862

Premium/Comfort vertical brush seal

For gaps >29/32"–1-1/16" (>23–27) ; grey

Specify length (by ft.)
Ref. No. 836.863

Component parts
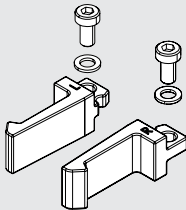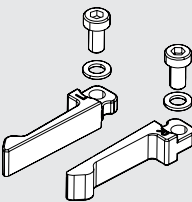
Endstops

	Premium XL 150/120/80 endstops Endstop set, 2 pieces, for use with XL 150 DM, XL 150, XL 120 SC, XL 80 DM **Ref. No. 836.465**		**Comfort L 80 endstop set** Endcap set 2 pieces for use with L 80 DM or L 80 **Ref. No. 836.267**

Bumper sets
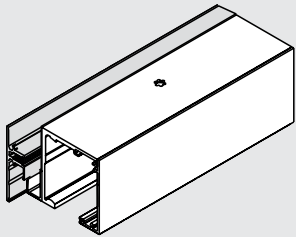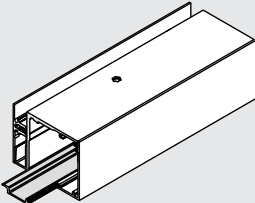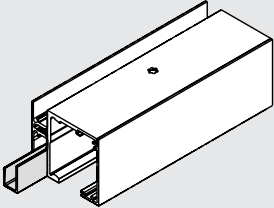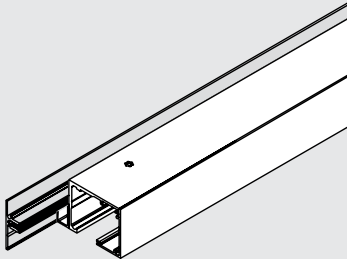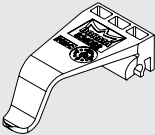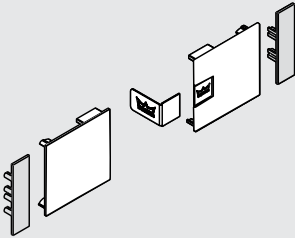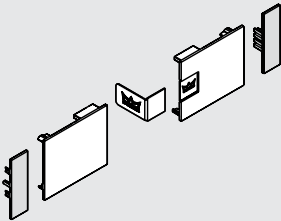
	Premium XL 150/120/80 bumper set Set of 2 bumbers; used in endstops for XL 150/120/80 **Ref. No. 836.466**		**Comfort L 80 bumper set** Set of 2 bumbers; used in endstops for L 80 DM or L 80 **Ref. No. 836.268**

Holder hook sets

	Premium XL 150 hook set Hook set, 2 pieces, for use with XL 150; attaches to roller carrier (Not compatible with XL 150 DM or XL 80 DM) **Ref. No. 836.467**		**Comfort L 80 hook set** Hook set, 2 pieces, for use with L 80 (not compatible with DM) **Ref. No. 836.269**
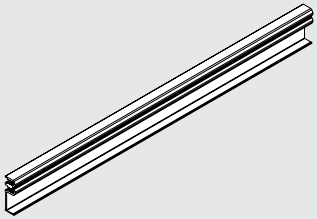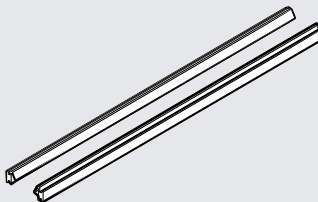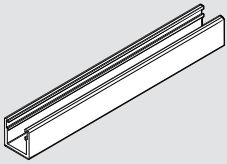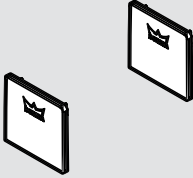
Component parts

Sidelite (fixed panel) extrusions and accessories

Premium XL sidelite profile

Sidelite profile (2-3/4" [69] high) for sidelite connection at top.
Complete with all gaskets
For use with XL 150 DM, XL 150, XL 120 SC, XL 80 DM

Fixed length
157-1/2" (4000)
Ref. No. 936.469

Specify length (by ft.)
Ref. No. 836.474

Comfort sidelite view protection profile

Use sidelite profile with XL or L systems
2-5/16" + 2-3/4"
(58 + 69) high

Fixed length
157-1/2" (4000)
Ref. No. 936.800

Specify length (by ft.)
Ref. No. 836.801

Comfort sidelite filling profile

For use with XL or L sidelite profile

2-5/16" + 2-3/4"
(58 + 69) high

Fixed length
157-1/2" (4000)
Ref. No. 936.802

Specify length (by ft.)
Ref. No. 836.803

Comfort L 80 sidelite profile

Sidelite profile for sidelite connection at top for use with L 80 DM and L 80, 2-5/16" (58) high, complete with all gaskets; for 5/16"– 9/16" (8 – 13.5) thick glass.

Fixed length
157-1/2" (4000)
Ref. No. 936.272

Specify length (by ft.)
Ref. No. 836.274

View profile clip

For use with view profile extrusion for Sidelite application

Ref. No. 836.891

Premium XL sidelite endcaps

Set endcaps for sidelite profile for use with all XL systems

2-3/4" (69) high
Ref. No. 836.471

Comfort L 80 sidelite endcaps

Set endcaps for sidelite profile
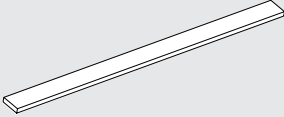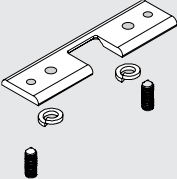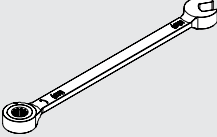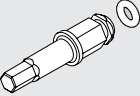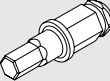
2-5/16" (58) high
Ref. No. 836.273

Component parts

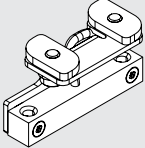## Sidelite (fixed panel) extrusions and accessories

Comfort 150/120/80 drop ceiling connector profile

Incl. extrusion and fasteners

Fixed length
157-1/2" (4000)
Ref. No. 836.821

Specify length (by ft.)
Ref. No. 836.820

U-Channel gaskets

Gasket for 1/2" (12–13.5) thick glass

Specify length (by ft.)
Ref. No. 925.147

Gasket for 3/8" (10) thick glass

Specify length (by ft.)
Ref. No. 925.148

Dri-Fit® pre-drilled U-Channel

Connecting profile for fixed panel (sidelite) fixing

Profile for 3/8" – 1/2"
(10 - 13) thick glass

Specify length (by ft.)
Ref. No. 925.447

U-Channel endcaps

Set endcaps for
Ref. No. 925.447

Ref. No. 925.121

Sidelite profile gasket

5/16"–3/8" (8–10)
thick glass; black
Ref. No. 836.195

Sidelite profile gasket

3/8"–1/2" (10–13)
thick glass; black
Ref. No. 836.196

Sidelite profile gasket

1/2"–17/32" (13–13.5) thick glass; black
Ref. No. 836.197

Component parts

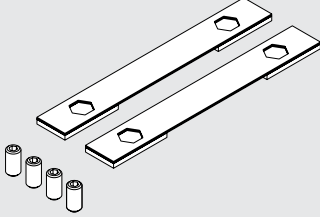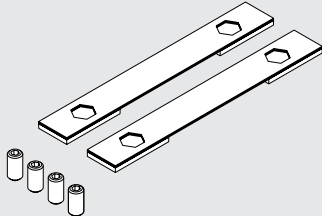## Recessed mount (CE-R) accessories

Foam, adhesive back

3/16" (5) vinyl
Supplied optional for CE-R
units, 50 ft. Roll

Grey

Ref. No. 933.915

XL Premium recessed cover clip

Ref. No. 936.145

XL Premium recessed start/ stop service plate

Ref. No. 936.561

Wrench, 6MM ratcheting / combo

Use with Ref. No. 936.898
and Ref. No. 936.899 hex bit in
CE-R units

Ref. No. 936.897

M4 Long hex bit

Recessed mount service item

Ref. No. 936.898

M4 Short hex bit

Recessed mount service item

Ref. No. 936.899

Status indicator

MUTO status indicator

Status indicator set, complete with accessories
(sensor, cable, etc.)

Ref. No. 836.840

Component parts

Tempered Laminated Glass (TLG) accessories

TLG applicator (LGAA)

3M™ Scotch-Weld™ EPX™ plus II applicator with 2:1 and 1:1 plunger

Ref. No. 934.801

TLG mixing nozzle (MTIPS)

3M™ Scotch-Weld™ urethane adhesive, DP 605 NS, off white, 1 tube per 4 roller carriers

Ref. No. 934.805

TLG adhesive (LGA)

3M™ Scotch-Weld™ EPX™ plus II mixing square nozzle, 5.3 mm (4 tips per set)

Ref. No. 934.800

Premium XL 150 Tempered Laminated Glass (TLG) roller gasket

Accessory set for use with TLG for one pair of clamp carriers

Requires optional adhesive components

Ref. No. 836.468

Comfort L 80 Tempered Laminated Glass (TLG) roller gasket

Accessory set for use with TLG for one pair of clamp carriers

Requires optional adhesive components

Ref. No. 836.270

Installation accessories

MUTO carrier locating tool

Accessory tool for quickly and easily locating roller carrier on top of moving panel

Ref. No. 936.999

Entrance
Systems

Our Sustainability Commitment

We are committed to fostering sustainable development along our
entire value chain in line with our economic, environmental and social respon-
sibilities toward current and future generations.
Sustainability at product level is an important, future-oriented approach
in the field of construction. In order to give quantified disclosures of a pro-
duct's environmental impacts through its entire life cycle, dormakaba provi-
des Environmental Product Declarations (EPDs), in which the results
of the life cycle assessment (LCA) are presented.
The full EPD is available for download at
https://www.dormakabagroup.com/en/sustainability/product-declarations.

dormakaba.us