MUTO Premium & Comfort
Manual sliding door system
# MUTO Premium & Comfort

Manual sliding door system

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</table>
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
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

## Description

<table>
<thead>
<tr>
<th>Description</th>
<th>MUTO Premium XL 150 DORMOTION (DM)</th>
<th>MUTO Premium XL 150</th>
<th>MUTO Premium XL 80 DORMOTION (DM)</th>
<th>MUTO Premium XL 120 Self-Closing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Track dimensions (less cover)</td>
<td>w = 2-3/4&quot; (70) h = 2-23/32&quot; (69)</td>
<td>w = 2-3/4&quot; (70) h = 2-23/32&quot; (69)</td>
<td>w = 2-3/4&quot; (70) h = 2-23/32&quot; (69)</td>
<td>w = 3-7/8&quot; (98) h = 2-23/32&quot; (69)</td>
</tr>
<tr>
<td>Track dimensions + cover profile</td>
<td>w = 2-27/32&quot; (72) h = 2-23/32&quot; (69)</td>
<td>w = 2-27/32&quot; (72) h = 2-23/32&quot; (69)</td>
<td>w = 2-27/32&quot; (72) h = 2-23/32&quot; (69)</td>
<td>w = 3-15/16&quot; (100) h = 2-23/32&quot; (69)</td>
</tr>
<tr>
<td>Track dimensions + optional sidelite extrusion + cover</td>
<td>w = 3-19/32&quot; (91)</td>
<td>w = 3-19/32&quot; (91)</td>
<td>w = 3-19/32&quot; (91)</td>
<td>w = 4-11/16&quot; (119)</td>
</tr>
</tbody>
</table>

## 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) | 40-1/8" (1020) | 26" (660) | 31-7/8" (810) | 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 x 330 lb (150 kg) | 2 x 330 lb (150 kg) | 2 x 176 lb (80 kg) | 2 x 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

<table>
<thead>
<tr>
<th>Functions</th>
<th>MUTO Premium XL 150 DORMOTION (DM)</th>
<th>MUTO Premium XL 150</th>
<th>MUTO Premium XL 80 DORMOTION (DM)</th>
<th>MUTO Premium XL 120 Self-Closing</th>
</tr>
</thead>
<tbody>
<tr>
<td>DORMOTION</td>
<td>● Std</td>
<td>○</td>
<td>● Std</td>
<td>● Closing cycle std³ ○ Opening cycle optional (DMSC)</td>
</tr>
<tr>
<td>Synchro (synchronized opening and closing of pairs)</td>
<td>–</td>
<td>○</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Status indicator</td>
<td>○</td>
<td>○</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Self-closing</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>● Std</td>
</tr>
</tbody>
</table>

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1. Track dimensions + cover profile
2. Track dimensions + optional sidelite extrusion + cover

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

**Note:** All measurements are shown in inches (mm) – example: 3/8" (10).
### MUTO Premium XL 80 Telescopic

<table>
<thead>
<tr>
<th>WITHOUT HANDLE</th>
<th>WITH HANDLE</th>
<th>WITH HANDLE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>With DORMOTION</strong></td>
<td><strong>Without DORMOTION</strong></td>
<td><strong>Without DORMOTION</strong></td>
</tr>
<tr>
<td><strong>Min. door width</strong></td>
<td>31-3/32&quot; (790)</td>
<td>33-21/32&quot; (855)</td>
</tr>
<tr>
<td><strong>Max. door width</strong></td>
<td>23-5/8&quot; (600)</td>
<td>26-3/16&quot; (665)</td>
</tr>
<tr>
<td><strong>Fast door</strong></td>
<td>47-1/4&quot; (1200)</td>
<td>49-13/16&quot; (1265)</td>
</tr>
<tr>
<td><strong>Slow door</strong></td>
<td>44-11/16&quot; (1135)</td>
<td>44-11/16&quot; (1135)</td>
</tr>
</tbody>
</table>

### Track dimensions

<table>
<thead>
<tr>
<th>Description</th>
<th>MUTO Premium XL 80 Telescopic</th>
<th>MUTO Comfort L 80 DORMOTION (DM)</th>
<th>MUTO Comfort L 80</th>
<th>MUTO Comfort M 50</th>
</tr>
</thead>
</table>
| Track dimensions (less cover) | w = 6-15/16" (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) | w = 2-3/16" (55)  
   h = 2-9/32" (58) |
| Track dimensions + cover profile | 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) | w = 2-1/4" (57)  
   h = 2-9/32" (58) |
| Track dimensions + optional sideite extrusion + cover | 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)  
- **Max wood door thickness**: 1-31/32" (50)  
- **Door height**: ± 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).  
- **Max glass door width**: 57" (1448)  
- **Max wood door width**: 60" (1524)  
- **Door height adjustment**: + 3/16" – 1/8" (+ 5 – 3)  
- **Max door weight/one door**: 2 × 176 lb (80 kg)  
- **Max door weight/two doors**: 4 × 176 lb (80 kg)  
- **Clearance between door & wall (glass)**: 21/32" (17)  
- **Clearance between door & wall (wood)**: 5/32" (4)  
- **Mounting options**: Wall, ceiling, or glass transom/fixed panel  
- **Functions**: DORMOTION  
  - **Std**  
  - **Synchro (synchronized opening and closing of pairs)**: –  
  - **Status indicator**: –  
  - **Self-closing**: –  

### Notes:

- **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.**
- **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.**
- **Minimum panel size based on nominal handle location 2-1/2" (64) from leading edge of glass.**

---

### Track dimensions + cover profile

- **1** door panel  
- **2** door panels with Synchro (not available with DORMOTION)  
- **2** door panels without Synchro  
- **1 or 2** door panels with telescopic  

---

### Model comparison guide

- **150 Satin Aluminum**  
- **113 Similar to Satin Stainless**
## MUTO ordering guide

**MUTO PREMIUM XL 1P 150**

### Mount Type
- **CE-S**: Ceiling Mount - Surface
- **CE-R**: Ceiling Mount - Recessed
- **W**: Wall Mount
- **G**: Glass Mount

### Sliding Panels
- Four Sliding Panels — *(XL 80 TEL Bi-Part)*
- One Sliding Panel
- Two Sliding Panels

### System Capacity
- **4P**: Medium
- **1P**: Heavy
- **2P**: Extra Heavy

### System Type
- **TEL**: Telescopic

### Sliding Panel Width
- **150**: 330 lb (150 kg) — 150
- **120**: 264 lb (120 kg) — 120
- **80**: 176 lb (80 kg) — 80
- **50**: 110 lb (50 kg) — 50

### Miter
- **METER**: Specify

### Door Panel Width (DW)
- **SPECIFY**: Specify

### Fixed Panels
- **1FP**: Specify
- **2FP**: Specify

### Fixed Panel Widths
- **PNL 1**: Specify
- **PNL 2**: Specify

### Door Weight
- **Self-Closing**: (120 only)

### Tempered Laminated Glass
- **TLG**: Specify

### MUTO Finish
- **399**: Special (Powder Coat/Paint)^4
- **199**: Special Anodized 4
- **113**: Similar to Stainless Steel (SSS)
- **150**: Clear Anodized Aluminum
- **628**: Clear Anodized Aluminum

### Status Indicator
- **SI**: 150

### Sliding Panel Thickness^6
- 1"/8" to 1-3/32" (35 to 50) Wood Door
- (Default: 1-3/4")
- 5/16" (8)
- 3/8" (10)
- 1/2" (12)
- 9/16" (13.5) Laminated

### Constraining the reference number

As an example, Ref. No. **836.100.150.99** shown below denotes a MUTO Comfort M 50 system, wall installation, in Clear Anodized Aluminum (150) finish. The short version used in this brochure shows only product category, group, and article definition; for example, 836.100. The other parts of the reference number are variable depending on the particular article and finish.

<table>
<thead>
<tr>
<th>Code 836.100.150.99</th>
<th>Product category</th>
<th>Product group</th>
<th>Article definition</th>
<th>Surface finish</th>
<th>Article status</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>dormakaba glass  product</td>
<td>36</td>
<td>MUTO manual sliding door system</td>
<td>MUTO Comfort M 50, wall installation</td>
<td>Clear anodized aluminum</td>
</tr>
</tbody>
</table>

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1. Two bi-parting panels or two panels for single telescopic.
2. MUTO Premium XL 80 not available Less DORMOTION.
3. Minimum and maximum panel widths vary by MUTO model.
4. For custom 199 or 399 finishes, there may be minimum order quantities based on minimum lot charges. Lead time will be extended.
5. Dimensions are converted from millimeters to the closest 1/16" where possible. Always verify with Technical Service for critical dimension verifications.
6. One (1), three (3), and five (5) day lead time kits are based on maximum order of ten (10) units.
7. Default wood door thickness will be 1-3/4" (44) unless otherwise specified.
8. Stock 157" (4m) extrusion lengths include clamp marks on mounting surface within approximately 1/2" - 1-3/4" (13-44) from each end and may need cut in field for surface applied units. Clamp marks are typically hidden once installed for CE-R units.

### Constructing the reference number

<table>
<thead>
<tr>
<th>Ref. No.</th>
<th>836.xxx.xxx.99</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clear anodized aluminum</td>
<td>150</td>
</tr>
<tr>
<td>Anodized similar to satin stainless</td>
<td>113</td>
</tr>
<tr>
<td>Custom anodized</td>
<td>199</td>
</tr>
<tr>
<td>Custom powder coat</td>
<td>399</td>
</tr>
</tbody>
</table>
Installation types

Installations

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

Telesopic function

\[ v_1 = v_2 \]
Installation made easy

Cover profile

Anti-jump device

Height adjustment
Installation for ceiling recessed (CE-R) mount only

Cover profile

Anti-jump device

Height adjustment
Installation made easy

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

Optional status indicator retrofit 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

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

Mounted to wall (W)

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)

<table>
<thead>
<tr>
<th></th>
<th>XL 150 DM</th>
<th>XL 150</th>
<th>XL 80 DM</th>
</tr>
</thead>
<tbody>
<tr>
<td>min DW</td>
<td>40-3/16&quot;</td>
<td>26&quot;</td>
<td>31-7/8&quot;</td>
</tr>
<tr>
<td>max DW</td>
<td>57&quot;</td>
<td>57&quot;</td>
<td>57&quot;</td>
</tr>
<tr>
<td>max 2P DW</td>
<td>2 × 57&quot;</td>
<td>2 × 57&quot;</td>
<td>2 × 57&quot;</td>
</tr>
</tbody>
</table>
Premium XL 150 DM / XL 150 / XL 80 DM

Typical assemblies mounted to ceiling

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)

Mounted to ceiling (CE-S)

| XL 150 DM |  |
|-----------|--|---|---|---|---|
| min DW    | 40-3/16” (1020) | max DW | 57” (1448) | max 2P DW | 2 × 57” (1448) |

<table>
<thead>
<tr>
<th>XL 150</th>
</tr>
</thead>
<tbody>
<tr>
<td>min DW</td>
</tr>
<tr>
<td>max DW</td>
</tr>
<tr>
<td>max 2P DW</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>XL 80 DM</th>
</tr>
</thead>
<tbody>
<tr>
<td>min DW</td>
</tr>
<tr>
<td>max DW</td>
</tr>
<tr>
<td>max 2P DW</td>
</tr>
</tbody>
</table>

**Features**

- 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

*If single door panel closes against jamb or only overlaps on one side, subtract 1-3/16” (30) from formula.
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
\[ DW = CW + 1-3/16" (30) \]

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

\[
\begin{array}{c|c|c}
\text{XL 150 DM} & \text{XL 150} & \text{XL 80 DM} \\
\hline
\text{min DW} & 40-3/16" (1020) & 26" (660) & 31-7/8" (810) \\
\text{max DW} & 57" (1448) & 57" (1448) & 57" (1448) \\
\end{array}
\]

\[
\begin{array}{c|c|c}
\text{DW} & \text{TL (if incl. endcaps, 2 x 3/32" [2])} & \text{FPW = TL - CW} \\
\text{TL} = Track length & \text{TH} = Total height & \text{CH} = Clear opening height \\
\text{GH} = Glass height sliding door & \text{CW} = Clear opening width & \text{FPH} = Fixed panel (sidelite) height \\
\text{FPT} = Fixed panel (glass) thickness & \text{DT} = Door (glass) thickness & \text{Y} = 2-7/8" (72) – 13/16" (20) – DT \\
\end{array}
\]
**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 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: 40-3/16" (1020)
- max DW: 57" (1448)

**XL 150**

- min DW: 26" (660)
- max DW: 57" (1448)

**XL 80 DM**

- min DW: 31-7/8" (810)
- 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)

---

**Mounted to ceiling (CE-S)**

**Mounted in ceiling (CE-R)**

---

**Variables**

- 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
\[
DW = CW + 2 \times 1-1/16'' (27) 
\]

Calculation of glass height (CE-S/CE-R)
\[
GH = TH - 7/8'' (47) \\
FPH = CH + 1/8'' (3) \\
max 118-1/8'' (3000) 
\]
Premium XL 150 DM / XL 150 / XL 80 DM

Typical assemblies for wood doors

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

### Dimensions

<table>
<thead>
<tr>
<th></th>
<th>XL 150 DM</th>
<th>XL 150</th>
<th>XL 80 DM</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>min DW</strong></td>
<td>40-3/16&quot; (1020)</td>
<td>26&quot; (660)</td>
<td>31-7/8&quot; (810)</td>
</tr>
<tr>
<td><strong>max DW</strong></td>
<td>60&quot; (1524)</td>
<td>60&quot; (1524)</td>
<td>60&quot; (1524)</td>
</tr>
<tr>
<td><strong>max 2P DW</strong></td>
<td>2 × 60&quot; (1524)</td>
<td>2 × 60&quot; (1524)</td>
<td>2 × 60&quot; (1524)</td>
</tr>
</tbody>
</table>

**Definitions**
- **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
**MUTO Premium & Comfort manual sliding door system**

**Premium XL 150 DM / XL 80 DM**

Typical assemblies mounted on glass with one sliding panel

---

**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)

---

**Note:** To ensure a correct and aligned mounting of the track rail, a full supporting fixed panel must be installed.

---

**Calculation example**

\[ DD = \frac{(31-1/2" – 4-3/16")}{2} = 13-11/16" \]

\[ DD = (800 – 106) ÷ 2 = 347 \]

\[ T = \text{Formula Value} \]

\[ Z = \text{Quantity of holes to drill} \]

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

<table>
<thead>
<tr>
<th>CW ≥ 23-5/8&quot; (600)</th>
<th>T</th>
<th>Z</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>8</td>
</tr>
<tr>
<td>CW ≤ 31-1/2&quot; (800)</td>
<td>3</td>
<td>10</td>
</tr>
<tr>
<td>CW ≥ 31-1/2&quot; (800)</td>
<td>3</td>
<td>10</td>
</tr>
<tr>
<td>CW ≤ 39-3/8&quot; (1000)</td>
<td>4</td>
<td>12</td>
</tr>
<tr>
<td>CW ≥ 39-3/8&quot; (1000)</td>
<td>4</td>
<td>12</td>
</tr>
<tr>
<td>CW ≤ 47-1/4&quot; (1200)</td>
<td>5</td>
<td>14</td>
</tr>
<tr>
<td>CW ≥ 47-1/4&quot; (1200)</td>
<td>5</td>
<td>14</td>
</tr>
<tr>
<td>CW ≤ 54-5/8&quot; (1388)</td>
<td>5</td>
<td>14</td>
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</tbody>
</table>

• 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 80 DM
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**
- 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)

### Glass preparation

<table>
<thead>
<tr>
<th>DW = Glass width</th>
<th>Z = Quantity of drillings</th>
</tr>
</thead>
<tbody>
<tr>
<td>TL = Track length</td>
<td>TH = Total height</td>
</tr>
<tr>
<td>DD = Drilling distance</td>
<td>CH = Clear opening height</td>
</tr>
<tr>
<td>CW = Clear opening width</td>
<td>GH = Door (glass) height</td>
</tr>
<tr>
<td>FPW = Fixed panel (glass) width</td>
<td>T = Set formula value derived from CW</td>
</tr>
<tr>
<td>DT = Door (glass) thickness</td>
<td>FPT = Fixed panel (sidelite) thickness</td>
</tr>
<tr>
<td>Y = 2-7/8” (72) – 13/16” (20) – DT</td>
<td></td>
</tr>
</tbody>
</table>

### Calculation example

```
DD = (CW – 4-3/16” – 6-11/16”) ÷ T  = __”
DD = (1400 – 106 – 170) ÷ 4 = 281
```

<table>
<thead>
<tr>
<th>T</th>
<th>Z</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>14</td>
</tr>
<tr>
<td>6</td>
<td>18</td>
</tr>
<tr>
<td>8</td>
<td>22</td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>Ref. No.</th>
<th>Min panel width</th>
<th>Min clear opening width</th>
<th>Max panel width²</th>
<th>Max clear opening width²</th>
<th>Max track length²</th>
</tr>
</thead>
<tbody>
<tr>
<td>1P XL 150 DM CE-S 1FP</td>
<td>40-3/16&quot; (1020)</td>
<td>37-13/16&quot; (960)</td>
<td>57&quot; (1448)</td>
<td>54-5/8&quot; (1388)</td>
<td>157-1/2&quot; (4000)</td>
</tr>
<tr>
<td>1P XL 150 CE-S 1FP</td>
<td>26&quot; (660)</td>
<td>23-5/8&quot; (600)</td>
<td>57&quot; (1448)</td>
<td>54-5/8&quot; (1388)</td>
<td>157-1/2&quot; (4000)</td>
</tr>
<tr>
<td>1P XL 80 DM CE-S 1FP</td>
<td>31-7/8&quot; (810)</td>
<td>29-1/2&quot; (750)</td>
<td>57&quot; (1448)</td>
<td>54-5/8&quot; (1388)</td>
<td>157-1/2&quot; (4000)</td>
</tr>
</tbody>
</table>

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

<table>
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<tr>
<th>Ref. No.</th>
<th>Min panel width</th>
<th>Min clear opening width</th>
<th>Max panel width²</th>
<th>Max clear opening width²</th>
<th>Max track length²</th>
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<tbody>
<tr>
<td>1P XL 150 DM CE-S 2FP</td>
<td>40-3/16&quot; (1020)</td>
<td>78-3/16&quot; (1986)</td>
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<td>157-1/2&quot; (4000)</td>
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<tr>
<td>1P XL 150 CE-S 2FP</td>
<td>26&quot; (660)</td>
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<td>111-7/8&quot; (2842)</td>
<td>157-1/2&quot; (4000)</td>
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<tr>
<td>1P XL 80 DM CE-S 2FP</td>
<td>31-7/8&quot; (810)</td>
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<td>157-1/2&quot; (4000)</td>
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2P ceiling surface by 2FP – Set for ceiling surface installation with two sliding panels and two fixed panels.

<table>
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<th>Max clear opening width²</th>
<th>Max track length²</th>
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<td>78-3/16&quot; (1986)</td>
<td>111-7/8&quot; (2842)</td>
<td>157-1/2&quot; (4000)</td>
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</tr>
<tr>
<td>2P XL 150 CE-S 2FP</td>
<td>26&quot; (660)</td>
<td>49-13/16&quot; (1266)</td>
<td>111-7/8&quot; (2842)</td>
<td>157-1/2&quot; (4000)</td>
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</tr>
<tr>
<td>2P XL 80 DM CE-S 2FP</td>
<td>31-7/8&quot; (810)</td>
<td>59-1/4&quot; (1505)</td>
<td>111-7/8&quot; (2842)</td>
<td>157-1/2&quot; (4000)</td>
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</tr>
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</table>

Note: Refer to Component parts section for wood door adapter options.
Premium XL 150 DM / XL 150 / XL 80 DM

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\(^1\), 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 recessed by 1FP – Set for ceiling recessed installation with one sliding panel and one fixed panel.

<table>
<thead>
<tr>
<th></th>
<th>Min panel width</th>
<th>Min clear opening width</th>
<th>Max panel width(^2)</th>
<th>Max clear opening width(^2)</th>
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<td>236.595</td>
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<td>MTO</td>
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<tr>
<td>1P XL 150 CE-R 1FP</td>
<td>26&quot; (660)</td>
<td>23-5/8&quot; (600)</td>
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<tr>
<td>1P XL 80 DM CE-R 1FP</td>
<td>31-7/8&quot; (810)</td>
<td>29-1/2&quot; (750)</td>
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### 1P ceiling recessed by 2FP – Set for ceiling recessed installation with one sliding panel and two fixed panels.

<table>
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<th>Min panel width</th>
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<th>Max panel width(^2)</th>
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<tr>
<td>1P XL 150 DM CE-R 2FP</td>
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<td>78-3/16&quot; (1986)</td>
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<td>1P XL 150 CE-R 2FP</td>
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<tr>
<td>1P XL 80 DM CE-R 2FP</td>
<td>31-7/8&quot; (810)</td>
<td>59-1/4&quot; (1505)</td>
<td>57&quot; (1448)</td>
<td>111-7/8&quot; (2842)</td>
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### 2P ceiling recessed by 2FP – Set for ceiling recessed installation with two sliding panels and two fixed panels.

<table>
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<th>Min panel width</th>
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<th>Max panel width(^2)</th>
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<td>2P XL 150 DM CE-R 2FP</td>
<td>40-3/16&quot; (1020)</td>
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<td>2P XL 80 DM CE-R 2FP</td>
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</table>

Note: Refer to Component parts section for wood door adapter options.
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, DM start/stops, 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 installation

- Set for wall installation with one sliding panel.

<table>
<thead>
<tr>
<th></th>
<th>Min panel width</th>
<th>Min clear opening width</th>
<th>Max panel width</th>
<th>Max clear opening width</th>
<th>Max track length</th>
<th>Ref. No.</th>
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<tbody>
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<tr>
<td>STK</td>
<td>40-3/16&quot; (1020)</td>
<td>37-13/16&quot; (960)</td>
<td>56-11/16&quot; (1440)</td>
<td>54-5/16&quot; (1380)</td>
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<td>54-5/8&quot; (1388)</td>
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<td>54-5/8&quot; (1388)</td>
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<td>836.520</td>
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</tbody>
</table>

### 1P ceiling surface installation

- Set for ceiling surface installation with one sliding panel.

<table>
<thead>
<tr>
<th></th>
<th>Min panel width</th>
<th>Min clear opening width</th>
<th>Max panel width</th>
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<tbody>
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<td>37-13/16&quot; (960)</td>
<td>56-11/16&quot; (1440)</td>
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<td>MTO</td>
<td>40-3/16&quot; (1020)</td>
<td>37-13/16&quot; (960)</td>
<td>57&quot; (1448)</td>
<td>54-5/8&quot; (1388)</td>
<td>157-1/2&quot; (4000)</td>
<td>836.523</td>
</tr>
<tr>
<td>1P XL 150 CE-S</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>STK</td>
<td>26&quot; (660)</td>
<td>23-5/8&quot; (600)</td>
<td>56-11/16&quot; (1440)</td>
<td>54-5/16&quot; (1380)</td>
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<td>MTO</td>
<td>26&quot; (660)</td>
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<td>57&quot; (1448)</td>
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<td>157-1/2&quot; (4000)</td>
<td>236.523</td>
</tr>
<tr>
<td>1P XL 80 DM CE-S</td>
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</tr>
<tr>
<td>STK</td>
<td>31-7/8&quot; (810)</td>
<td>29-1/2&quot; (750)</td>
<td>56-11/16&quot; (1440)</td>
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<tr>
<td>MTO</td>
<td>31-7/8&quot; (810)</td>
<td>29-1/2&quot; (750)</td>
<td>57&quot; (1448)</td>
<td>54-5/8&quot; (1388)</td>
<td>157-1/2&quot; (4000)</td>
<td>836.522</td>
</tr>
</tbody>
</table>

### 1P glass installation

- Set for glass installation with one sliding panel.

<table>
<thead>
<tr>
<th></th>
<th>Min panel width</th>
<th>Min clear opening width</th>
<th>Max panel width</th>
<th>Max clear opening width</th>
<th>Max track length</th>
<th>Ref. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1P XL 150 DM G</td>
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<td></td>
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<tr>
<td>MTO</td>
<td>40-3/16&quot; (1020)</td>
<td>37-13/16&quot; (960)</td>
<td>57&quot; (1448)</td>
<td>54-5/8&quot; (1388)</td>
<td>157-1/2&quot; (6000)</td>
<td>836.525</td>
</tr>
<tr>
<td>1P XL 80 DM G</td>
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</tr>
<tr>
<td>MTO</td>
<td>31-7/8&quot; (810)</td>
<td>29-1/2&quot; (750)</td>
<td>57&quot; (1448)</td>
<td>54-5/8&quot; (1388)</td>
<td>157-1/2&quot; (6000)</td>
<td>836.524</td>
</tr>
</tbody>
</table>

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

2 For 157-1/2" track lengths, only 154" are usable. 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®, DM start/stops®, 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 installation** – Set for wall installation with two sliding panels.

<table>
<thead>
<tr>
<th>Min panel width</th>
<th>Min clear opening width</th>
<th>Max panel width</th>
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<tr>
<td><strong>2P XL 150 DM W</strong></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MTO 40-3/16&quot; (1020)</td>
<td>78-3/16&quot; (1986)</td>
<td>57&quot; (1448)</td>
<td>111-7/8&quot; (2842)</td>
<td>157-1/2&quot; (4000)</td>
<td>836 527</td>
</tr>
<tr>
<td>MTO 26&quot; (660)</td>
<td>49-13/16&quot; (1266)</td>
<td>57&quot; (1448)</td>
<td>111-7/8&quot; (2842)</td>
<td>157-1/2&quot; (4000)</td>
<td>236 527</td>
</tr>
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</table>

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

<table>
<thead>
<tr>
<th>Min panel width</th>
<th>Min clear opening width</th>
<th>Max panel width</th>
<th>Max clear opening width</th>
<th>Max track length</th>
<th>Ref. No.</th>
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<tbody>
<tr>
<td><strong>2P XL 150 DM CE-S</strong></td>
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<tr>
<td>MTO 40-3/16&quot; (1020)</td>
<td>78-3/16&quot; (1986)</td>
<td>57&quot; (1448)</td>
<td>111-7/8&quot; (2842)</td>
<td>157-1/2&quot; (4000)</td>
<td>836 529</td>
</tr>
<tr>
<td>MTO 26&quot; (660)</td>
<td>49-13/16&quot; (1266)</td>
<td>57&quot; (1448)</td>
<td>111-7/8&quot; (2842)</td>
<td>157-1/2&quot; (4000)</td>
<td>236 529</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Min panel width</th>
<th>Min clear opening width</th>
<th>Max panel width</th>
<th>Max clear opening width</th>
<th>Max track length</th>
<th>Ref. No.</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>MTO 40-3/16&quot; (1020)</td>
<td>78-3/16&quot; (1986)</td>
<td>57&quot; (1448)</td>
<td>111-7/8&quot; (2842)</td>
<td>157-1/2&quot; (4000)</td>
<td>836 531</td>
</tr>
<tr>
<td>MTO 31-7/8&quot; (810)</td>
<td>61-5/8&quot; (1566)</td>
<td>57&quot; (1448)</td>
<td>111-7/8&quot; (2842)</td>
<td>157-1/2&quot; (4000)</td>
<td>836 530</td>
</tr>
</tbody>
</table>

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

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**

\[
GH = CH + \frac{7}{8}" (22) + X
\]

(see drawing)

max 118-1/8" (3000)

**Calculation of glass width**

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

**Mounted to wall (W)**

**XL 120 SC**

<table>
<thead>
<tr>
<th></th>
<th>min DW</th>
<th>max DW</th>
<th>max 2P DW</th>
</tr>
</thead>
<tbody>
<tr>
<td>DW</td>
<td>33-1/2&quot; (850)</td>
<td>57&quot; (1448)</td>
<td>2 × 57&quot; (1448)</td>
</tr>
<tr>
<td>TL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CW</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Note:**
- If single door panel closes against jamb or only overlaps on one side, subtract 1-3/16" (30) from formula.
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 ceiling; for 5/16" – 9/16" (8 – 13.5) thick glass

**Max. weight of door panels**

264 lb (120 kg)

**Calculation of glass height (CE-S)**

$GH = TH - 1-7/8" \ (47)$

max 118-1/8" (3000)

**Calculation of glass width**

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

<table>
<thead>
<tr>
<th>XL 120 SC</th>
</tr>
</thead>
<tbody>
<tr>
<td>min DW</td>
</tr>
<tr>
<td>33-1/2&quot; (850)</td>
</tr>
<tr>
<td>max DW</td>
</tr>
<tr>
<td>57&quot; (1448)</td>
</tr>
<tr>
<td>max 2P DW</td>
</tr>
<tr>
<td>2 × 57&quot; (1448)</td>
</tr>
</tbody>
</table>

*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)

**Calculation of glass height (CE-S)**

$GH = TH - 1-7/8" \ (47)$

max 118-1/8" (3000)

**Calculation of glass width**

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

$DW = \text{Glass width}$

$TL = \text{Track length}$

$GH = \text{Glass height}$

$TH = \text{Total height}$

$CH = \text{Clear opening height}$

$CW = \text{Clear opening width}$

$DT = \text{Door (glass) thickness}$

$Y = 3-15/16" \ (100) - 13/16" \ (20) - DT$
**Premium XL 120 Self-Closing (SC)**

Typical assemblies mounted to or in ceiling with 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**

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

<table>
<thead>
<tr>
<th>XL 120 SC</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>min DW</td>
<td>33-1/2” (850)</td>
</tr>
<tr>
<td>max DW</td>
<td>57” (1448)</td>
</tr>
</tbody>
</table>

**Calculation of glass height**

- Mounted to ceiling (CE-S):
  \[
  GH = TH - 1-7/8” (47)
  FPH = CH + 1/8” (3)

- Mounted in ceiling (CE-R):
  \[
  GH = TH - 1-7/8” (47)
  FPH = CH + 1/8” (3)
\]

<table>
<thead>
<tr>
<th>DW</th>
<th>Glass width</th>
</tr>
</thead>
<tbody>
<tr>
<td>TL</td>
<td>Track length</td>
</tr>
<tr>
<td>GH</td>
<td>Glass height sliding door</td>
</tr>
<tr>
<td>FPH</td>
<td>Fixed panel (sidelite) height</td>
</tr>
<tr>
<td>TH</td>
<td>Total height</td>
</tr>
<tr>
<td>CH</td>
<td>Clear opening height</td>
</tr>
<tr>
<td>CW</td>
<td>Clear opening width</td>
</tr>
<tr>
<td>FPW</td>
<td>Fixed panel (sidelite) width</td>
</tr>
<tr>
<td>DT</td>
<td>Door (glass) thickness</td>
</tr>
<tr>
<td>FPT</td>
<td>Fixed panel (glass) thickness</td>
</tr>
<tr>
<td>Y</td>
<td>3-15/16” (100) – 13/16” (20) – DT</td>
</tr>
</tbody>
</table>
Premium XL 120 Self-Closing (SC)

Typical assemblies mounted to or in ceiling with one sliding panel and fixed panels on both sides

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
\[ DW = CW + 2\frac{3}{8}" \] (60)

Calculation of glass height (CE-S/CE-R)
\[ GH = TH - 1\frac{7}{8}" \] (47)
\[ FHP = CH + 1\frac{1}{8}" \] (3)
max 118-1/8" (3000)

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

Mounted to ceiling (CE-S)

Mounted in ceiling (CE-R)

Calculation of glass height (CE-S/CE-R)
\[ GH = TH - 1\frac{7}{8}" \] (47)
\[ FHP = CH + 1\frac{1}{8}" \] (3)
max 118-1/8" (3000)
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
\[ DW = CW + 2 \times 1-1/16" (27) \]

Calculation of glass height (CE-S/CE-R)
\[ GH = TH - 1-7/8" (47) \]
\[ FPH = CH + 1/8" (3) \]
\[ \text{max } 118-1/8" (3000) \]

**XL 120 SC**

<table>
<thead>
<tr>
<th>min 2P DW</th>
<th>max 2P DW</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 \times 33-1/2&quot; (850)</td>
<td>2 \times 57&quot; (1448)</td>
</tr>
</tbody>
</table>

**Features**
- Glass width
- Track length
- Glass height sliding door
- Fixed panel (sidelite) height
- Total height
- Clear opening height
- Clear opening width
- Fixed panel (sidelite) width 1
- Fixed panel (sidelite) width 2
- Door (glass) thickness
- Fixed panel (glass) thickness
- 3-15/16" (100) – 13/16" (20) – DT

**Calculation of glass height (CE-S/CE-R)**
\[ GH = TH - 1-7/8" (47) \]
\[ FPH = CH + 1/8" (3) \]
\[ \text{max } 118-1/8" (3000) \]
Premium XL 120 Self-Closing (SC)

Typical assemblies for wood doors

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
\[ DH = CH - 3/4" (18) + X \text{ (wall)} \]
\[ DH = TH - 3-7/16" (87) \text{ (ceiling)} \]
max 118-1/8” (3000)

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

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

XL 120 SC

<table>
<thead>
<tr>
<th>min DW</th>
<th>33-1/2&quot; (850)</th>
</tr>
</thead>
<tbody>
<tr>
<td>max DW</td>
<td>60&quot; (1524)</td>
</tr>
<tr>
<td>max 2P DW</td>
<td>2 × 60&quot; (1524)</td>
</tr>
</tbody>
</table>

**Formula References**
- TL = Track length
- DW = Door width
- 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

* If single door panel closes against jamb or only overlaps on one side, subtract 1-3/16” (30) from formula.
Premium XL 120 Self-Closing (SC)
Typical assemblies mounted on glass with one sliding panel

### 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)

### Glass preparation

#### 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).

- 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.

### Note:
To ensure a correct and aligned mounting of the track rail, a full supporting fixed panel must be installed.

### XL 120 SC

<table>
<thead>
<tr>
<th></th>
<th>min DW</th>
<th>max DW</th>
</tr>
</thead>
<tbody>
<tr>
<td>(850)</td>
<td>(1448)</td>
<td></td>
</tr>
</tbody>
</table>

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

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

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

* DD = (CW – 4-3/16") ÷ T  = __“
DD = (CW – 106) ÷ T  = __ mm
Premium XL 120 Self-Closing (SC)

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
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)

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

Calculation example
\[ DD = \frac{(55-1/8" – 4-3/16" – 6-11/16")}{4} = 11-1/16" \]
\[ DD = \frac{(1400 – 106 – 170)}{4} = 281 \]

T = Formula Value  
Z = Quantity of drillings

Calculation example

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 120 Self-Closing (SC)
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, 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 – Set for ceiling surface installation with one sliding panel and one fixed panel.

<table>
<thead>
<tr>
<th>Min panel width</th>
<th>Min clear opening width</th>
<th>Max panel width</th>
<th>Max clear opening width</th>
<th>Max track length</th>
<th>Ref. No.</th>
</tr>
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<tbody>
<tr>
<td>1P XL 120 SC CE-S 1FP</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>MTO 33-1/2” (850)</td>
<td>31-1/8” (790)</td>
<td>57” (1448)</td>
<td>54-5/8” (1388)</td>
<td>157-1/2” (4000)</td>
<td>RH 236.690</td>
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<tr>
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<td></td>
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<td></td>
<td></td>
<td>LH 236.692</td>
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</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Min panel width</th>
<th>Min clear opening width</th>
<th>Max panel width</th>
<th>Max clear opening width</th>
<th>Max track length</th>
<th>Ref. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1P XL 120 SC CE-S 2FP</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>MTO 33-1/2” (850)</td>
<td>31-1/8” (790)</td>
<td>57” (1448)</td>
<td>54-5/8” (1388)</td>
<td>157-1/2” (4000)</td>
<td>RH 236.694</td>
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<td></td>
<td></td>
<td>LH 236.696</td>
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</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Min panel width</th>
<th>Min clear opening width</th>
<th>Max panel width</th>
<th>Max clear opening width</th>
<th>Max track length</th>
<th>Ref. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2P XL 120 SC CE-S 2FP</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MTO 33-1/2” (850)</td>
<td>64-13/16” (1646)</td>
<td>57” (1448)</td>
<td>111-7/8” (2842)</td>
<td>157-1/2” (4000)</td>
<td>236.698</td>
</tr>
</tbody>
</table>

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

1 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)

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 – Set for ceiling recessed installation with one sliding panel and one fixed panel.

<table>
<thead>
<tr>
<th></th>
<th>Min panel width</th>
<th>Min clear opening width</th>
<th>Max panel width¹</th>
<th>Max clear opening width¹</th>
<th>Max track length¹</th>
<th>Ref. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1P XL 120 SC CE-R 1FP</td>
<td>33-1/2” (850)</td>
<td>31-1/8” (790)</td>
<td>57” (1448)</td>
<td>54-5/8” (1388)</td>
<td>157-1/2” (4000)</td>
<td>RH 236.691</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>LH 236.693</td>
</tr>
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</table>

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

<table>
<thead>
<tr>
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<th>Min panel width</th>
<th>Min clear opening width</th>
<th>Max panel width¹</th>
<th>Max clear opening width¹</th>
<th>Max track length¹</th>
<th>Ref. No.</th>
</tr>
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<tbody>
<tr>
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<td>33-1/2” (850)</td>
<td>31-1/8” (790)</td>
<td>57” (1448)</td>
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<td>157-1/2” (4000)</td>
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<td>LH 236.697</td>
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2P ceiling recessed by 2FP – Set for ceiling recessed installation with two sliding panels and two fixed panels.

<table>
<thead>
<tr>
<th></th>
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<th>Max track length¹</th>
<th>Ref. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2P XL 120 SC CE-R 2FP</td>
<td>33-1/2” (850)</td>
<td>64-13/16” (1646)</td>
<td>57” (1448)</td>
<td>111-7/8” (2842)</td>
<td>157-1/2” (4000)</td>
<td>236.699</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th></th>
<th>Min panel width</th>
<th>Min clear opening width</th>
<th>Max panel width¹</th>
<th>Max clear opening width¹</th>
<th>Max track length¹</th>
<th>Ref. No.</th>
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<tbody>
<tr>
<td>1P XL 120 SC W</td>
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<td></td>
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<tr>
<td>STK</td>
<td>33-1/2&quot; (850)</td>
<td>31-1/8&quot; (790)</td>
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<td>54-5/16&quot; (1380)</td>
<td>113-3/8&quot; (2880)</td>
<td>RH 836.602</td>
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<tr>
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<td>33-1/2&quot; (850)</td>
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<td>57&quot; (1448)</td>
<td>54-5/8&quot; (1388)</td>
<td>157-1/2&quot; (4000)</td>
<td>RH 836.620</td>
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<td>LH 836.621</td>
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1P ceiling surface installation – Set for ceiling surface installation with one sliding panel.

<table>
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<th>Max panel width¹</th>
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<th>Max track length¹</th>
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<tbody>
<tr>
<td>1P XL 120 SC CE-S</td>
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1P glass installation – Set for glass installation with one sliding panel.

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<th>Max clear opening width¹</th>
<th>Max track length¹</th>
<th>Ref. No.</th>
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<tbody>
<tr>
<td>1P XL 120 SC G</td>
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<tr>
<td>MTO</td>
<td>33-1/2&quot; (850)</td>
<td>31-1/8&quot; (790)</td>
<td>57&quot; (1448)</td>
<td>54-5/8&quot; (1388)</td>
<td>157-1/2&quot; (4000)</td>
<td>RH 836.624</td>
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<td>LH 836.625</td>
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</table>

¹ 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).

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

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

<table>
<thead>
<tr>
<th></th>
<th>Min panel width</th>
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<tr>
<td>2P XL 120 SC W</td>
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</tr>
<tr>
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<td>33-1/2&quot; (850)</td>
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<td>57&quot; (1448)</td>
<td>111-7/8&quot; (2842)</td>
<td>157-1/2&quot; (4000)</td>
<td>836.626</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th></th>
<th>Min panel width</th>
<th>Min clear opening width</th>
<th>Max panel width¹</th>
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</tr>
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<tr>
<td>2P XL 120 SC CE-S</td>
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<tr>
<td>MTO</td>
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<td>157-1/2&quot; (4000)</td>
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</table>

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

<table>
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<tr>
<th></th>
<th>Min panel width</th>
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<th>Max panel width¹</th>
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<tbody>
<tr>
<td>2P XL 120 SC G</td>
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<td>111-7/8&quot; (2842)</td>
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<td>836.628</td>
</tr>
</tbody>
</table>

¹ For 157-1/2" track lengths, only 154" are useable. Max wood door sizes can be increased by 3" (76), MTO only.
Premium XL 80 Telescopic (TEL)
Large clear openings; small space requirement

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 laminated 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)

Quick and slow moving panels
1 = quick moving panel (QMP)
2 = slow moving panel (SMP)

V = Velocity/Speed

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

v₂ = 0.5 v₁
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

<table>
<thead>
<tr>
<th></th>
<th>without DORMOTION</th>
<th>with DORMOTION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Min panel width</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>without handle</td>
<td>23-5/8” (600)</td>
<td>31-3/32” (790)</td>
</tr>
<tr>
<td>with handle</td>
<td>26-3/16” (665)</td>
<td>33-21/32” (855)</td>
</tr>
<tr>
<td><strong>Clear opening width</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>without handle</td>
<td>43-23/32” (1110)</td>
<td>58-21/32” (1490)</td>
</tr>
<tr>
<td>with handle</td>
<td>49-13/16” (1265)</td>
<td>58-21/32” (1490)</td>
</tr>
<tr>
<td><strong>Max panel width</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>without handle</td>
<td>47-1/4” (1200)</td>
<td>47-1/4” (1200)</td>
</tr>
<tr>
<td>with handle</td>
<td>49-13/16” (1265)</td>
<td>49-13/16” (1265)</td>
</tr>
<tr>
<td><strong>Clear opening width</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>without handle</td>
<td>90-15/16” (2310)</td>
<td>90-15/16” (2310)</td>
</tr>
<tr>
<td>with handle</td>
<td>153” (3886)</td>
<td>153” (3886)</td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th></th>
<th>without DORMOTION</th>
<th>with DORMOTION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Min panel width</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>without handle</td>
<td>23-5/8” (600)</td>
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</tr>
<tr>
<td>with handle</td>
<td>26-3/16” (665)</td>
<td>33-21/32” (855)</td>
</tr>
<tr>
<td><strong>Clear opening width</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>without handle</td>
<td>43-23/32” (1110)</td>
<td>58-21/32” (1490)</td>
</tr>
<tr>
<td>with handle</td>
<td>49-13/16” (1265)</td>
<td>58-21/32” (1490)</td>
</tr>
<tr>
<td><strong>Max panel width</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>without handle</td>
<td>47-1/4” (1200)</td>
<td>47-1/4” (1200)</td>
</tr>
<tr>
<td>with handle</td>
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<td>49-13/16” (1265)</td>
</tr>
<tr>
<td><strong>Clear opening width</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>without handle</td>
<td>90-15/16” (2310)</td>
<td>90-15/16” (2310)</td>
</tr>
<tr>
<td>with handle</td>
<td>153” (3886)</td>
<td>153” (3886)</td>
</tr>
</tbody>
</table>

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

Unless indicated otherwise, all measurements are shown in inches (mm).

Panel width min.* — 23-5/8” (600)
Panel width max.* — 50-21/32” (1287)
Premium XL 80 Telescopic (TEL)

Typical assemblies mounted to wall

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:
\[ TL = (1.5 \times RW - OL / 2) + 3-11/32" \] (85)
Bi-parting 4 panels:
\[ TL = 1.5 \times RW - OL + 2-5/8" \] (67)

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

Calculation of glass height
\[ GH \ SMP = CH + 23/32" \]
\[ GH \ QMP = CH - 1-1/16" \]

OL recommended at 6” (152), 4” (102) from leading edge (fast panel), 2” (51) from leading edge (slow panel/jamb). Dimension from center of pull.

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.
**Premium XL 80 Telescopic (TEL)**

Typical assemblies mounted to ceiling

---

**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: 

\[ TL = (1.5 \times RW - (OL/2)) + 3-11/32'' (85) \]

Bi-parting 4 panels:  

\[ TL = 1.5 \times RW - OL + 2-5/8'' (67) \]

**Calculation of glass width**

2 panels:  

\[ SMP = (RW - OL + 3-17/32'' [90]) / 2 \]

\[ QMP = SMP + OL \]

Bi-parting 4 panels:  

\[ SMP = (RW - (2 \times OL) + 4-1/2'' [114]) / 4 \]

\[ QMP = SMP + OL \]

**Calculation of glass height**

\[ GH SMP = CH + 23/32'' (18) \]

\[ GH QMP = CH - 1-1/16'' (27) \]
**Premium XL 80 Telescopic (TEL)**

**Typical assemblies with sidelite on one side**

**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**

\[ TL = RW - 5/32" (4) \]

\[ TL = RW \text{ (without end caps)} \]

**Calculation of glass width**

2 panels:

\[ SMP = (RW - OL + 2" [51]) / 3 \]

\[ QMP = SMP + OL \]

Bi-parting 4 panels:

\[ SMP = (RW - 2 \times OL + 4 \times OL) / 6 \]

\[ QMP = SMP + OL \]

**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:

\[ FP = (RW - 2 \times OL + 5-3/16" [132]) / 6 \]

\[ PCW = RW - (2 \times FP) \]

1. OL recommended at 6” (152), 4” (102) from leading edge (fast panel), 2” (51) from leading edge (slow panel/jamb).

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.

**With sidelite**

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

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

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

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 – 1-1/16” (27)
GH QMP = CH + 23/32” (18)

1 OL recommended at 6” (152), 4” (102) from leading edge (fast panel), 2” (51) from leading edge (slow panel/jamb). Dimension from center of pull.

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 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

<table>
<thead>
<tr>
<th>CH = Clear opening height</th>
<th>DH SMP = Door height slow moving panel</th>
<th>DH QMP = Door height quick moving panel</th>
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</table>

<table>
<thead>
<tr>
<th>A</th>
<th>S1</th>
<th>S2</th>
<th>X</th>
<th>Y</th>
<th>Z</th>
<th>B1</th>
<th>B2</th>
<th>U</th>
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</thead>
<tbody>
<tr>
<td>1-1/8&quot; (29)</td>
<td>3/8&quot; (9.5)</td>
<td>3/8&quot; (9.5)</td>
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<td>7/8&quot; (22)</td>
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<td>3/8&quot; (10)</td>
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<td>3/8&quot; (9.5)</td>
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Premium XL 80 Telescopic (TEL)
Glass door sets with moving floor guide
— Mounted to wall

Premium XL 80 (TEL) Telescopic
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

Premium XL 80 (TEL) Telescopic
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

Premium XL 80 (TEL) Telescopic
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**
Ref. No. 836.703

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

**Premium XL 80 (TEL) Telescopic**
Ref. No. 836.704

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)

**Premium XL 80 (TEL) Telescopic**
Ref. No. 836.710

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

Premium XL 80 (TEL) Telescopic  
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. 836.705

Premium XL 80 (TEL) Telescopic  
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)  
Ref. No. 836.740

Premium XL 80 (TEL) Telescopic  
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)  
Ref. No. 836.711
**Premium XL 80 Telescopic (TEL)**

Glass door sets with moving floor guide
— Glass mounted

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**Premium XL 80 (TEL) Telescopic**

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)

Ref. No. 836.707

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**Premium XL 80 (TEL) Telescopic**

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)

Ref. No. 836.708

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**Premium XL 80 (TEL) Telescopic**

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)

Ref. No. 836.712
Premium XL 80 Telescopic (TEL)
Wood door sets with moving floor guide
— Mounted to wall

- Premium XL 80 (TEL) Telescopic
  - 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

- Premium XL 80 (TEL) Telescopic
  - 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

- Premium XL 80 (TEL) Telescopic
  - 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
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

Premium XL 80 (TEL) Telescopic
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
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
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. 836.729

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

Premium XL 80 (TEL) Telescopic
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)
Ref. No. 836.735
Premium XL 80 Telescopic (TEL)
Wood door sets with moving floor guide
— Glass mounted

Premium XL 80 (TEL) Telescopic
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
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
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

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)

 Mounted to wall (W)

<table>
<thead>
<tr>
<th></th>
<th>L 80 DM</th>
<th>L 80</th>
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<tbody>
<tr>
<td>min DW</td>
<td>39&quot; (990)</td>
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<td>max DW</td>
<td>57&quot; (1448)</td>
<td>57&quot; (1448)</td>
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<tr>
<td>max 2P DW</td>
<td>2 × 57&quot; (1448)</td>
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</table>

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

* If single door panel closes against jamb or only overlaps on one side, subtract 1-3/16" (30) from formula.
Comfort L 80 DORMOTION (DM) / L 80

Typical assemblies mounted to ceiling

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 – 1-9/16” (40)
max 118-1/8” (3000)

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

Mounted to ceiling (CE-S)

L 80 DM

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<td>min DW</td>
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<td>max DW</td>
<td>57” (1448)</td>
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<td>max 2P DW</td>
<td>2 × 57” (1448)</td>
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L 80

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<td>max 2P DW</td>
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</table>

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

* If single door panel closes against jamb or only overlaps on one side, subtract 1-3/16” (30) from formula.
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 height
\[ GH = TH - 1 \frac{9}{16}'' (40) \]
\[ FPH = CH + 1 \frac{1}{8}'' (3) \]

max 118-1/8” (3000)

Features and data for L 80 DM

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Features and data for L 80

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<td>26” (660)</td>
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<tr>
<td>max DW</td>
<td>57” (1448)</td>
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</table>

Mounted to ceiling (CE-S)

Calculation of glass height (CE-S)
\[ GH = TH - 1 \frac{9}{16}'' (40) \]
\[ FPH = CH + 1 \frac{1}{8}'' (3) \]
max 118-1/8” (3000)
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
$DW = CW + 2-3/8” (60)$

### Mounted to ceiling (CE-S)

- $\text{GH} = \text{TH} - 1-9/16” (40)$
- $\text{FPH} = \text{CH} + 1/8” (3)$
- max 118-1/8” (3000)

### Calculation of glass height (CE-S)

- $\text{TL} = \text{DW} \times 2 + \text{FPW2} - 1-3/16” (30)$
- $\text{FPH} = \text{CH} + 1/8” (3)$
- max 118-1/8” (3000)
MUTO Premium & Comfort manual sliding door system

Comfort L 80 DORMOTION (DM) / L 80
Typical assemblies with two sliding panels with fixed panels on both sides

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
\[ DW = CW + 2 \times 1-1/16" \ (27) \]

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<tr>
<th>L 80 DM</th>
<th>min DW</th>
<th>2 × 39&quot; (990)</th>
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<tbody>
<tr>
<td></td>
<td>max DW</td>
<td>2 × 57&quot; (1448)</td>
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</tbody>
</table>

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

Calculation of glass height
\[ GH = TH – 1-9/16" \ (40) \]

\[ FPH = CH + 1/8" \ (3) \]

max 118-1/8" (3000)
Comfort L 80 DORMOTION (DM) / L 80

Typical assemblies for wood doors

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
\[ DH = CH + \frac{3}{4}" (18) + X \text{ (wall)} \]
\[ DH = TH - 3" (76) \text{ (ceiling)} \]
max 118-1/8" (3000)

Calculation of door width
\[ DW = CW + 2\frac{3}{8}" (60) \]

<table>
<thead>
<tr>
<th>L 80 DM</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>min DW</td>
<td>39&quot; (990)</td>
<td></td>
</tr>
<tr>
<td>max DW</td>
<td>60&quot; (1524)</td>
<td></td>
</tr>
<tr>
<td>max DW</td>
<td>2 × 60&quot; (1524)</td>
<td></td>
</tr>
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<table>
<thead>
<tr>
<th>L 80</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>min DW</td>
<td>26&quot; (660)</td>
<td></td>
</tr>
<tr>
<td>max DW</td>
<td>60&quot; (1524)</td>
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</tr>
<tr>
<td>max DW</td>
<td>2 × 60&quot; (1524)</td>
<td></td>
</tr>
</tbody>
</table>

Mounted to wall (W)

Mounted to ceiling (CE-S)

* If single door panel closes against jamb or only overlaps on one side, subtract 1-3/16" (30) from formula.
Comfort L 80 DORMOTION (DM) / L 80
Typical assemblies mounted on glass with one sliding panel

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

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)

Max. weight of door panels
176 lb (80 kg)

<table>
<thead>
<tr>
<th></th>
<th>L 80 DM</th>
<th>L 80</th>
</tr>
</thead>
<tbody>
<tr>
<td>min DW</td>
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<td>26&quot; (660)</td>
</tr>
<tr>
<td>min CW</td>
<td>36-5/8&quot; (930)</td>
<td>23-5/8&quot; (600)</td>
</tr>
<tr>
<td>max DW</td>
<td>57&quot; (1448)</td>
<td>57&quot; (1448)</td>
</tr>
<tr>
<td>max CW</td>
<td>54-5/8&quot; (1388)</td>
<td>54-5/8&quot; (1388)</td>
</tr>
</tbody>
</table>

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).

- 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.

Note: To ensure a correct and aligned mounting of the track rail, a full supporting fixed panel must be installed.
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
\[ GH = TH - 1-9/16" \times 40 \]
max \[ 118-1/8" \times 3000 \]

Calculation of glass width
\[ DW = CW + 2 + 1-1/16" \times 27 \]

Calculation example
\[ DD = (CW - 4-3/16" - 6-11/16") ÷ T = __" \]
\[ DD = (CW - 106 - 170) ÷ T = __ mm \]

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

X detail

- 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
Comfort L 80 DORMOTION (DM) / Comfort 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 – Set for ceiling surface installation with one sliding panel and one fixed panel.

<table>
<thead>
<tr>
<th>Min panel width</th>
<th>Min clear opening width</th>
<th>Max panel width(^2)</th>
<th>Max clear opening width(^2)</th>
<th>Max track length(^2)</th>
<th>Ref. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>39&quot; (990)</td>
<td>36-5/8&quot; (930)</td>
<td>57&quot; (1448)</td>
<td>54-5/8&quot; (1388)</td>
<td>157-1/2&quot; (4000)</td>
<td>236.389</td>
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<tr>
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<td>54-5/8&quot; (1388)</td>
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<td>236.388</td>
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</table>

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

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<th>Min clear opening width</th>
<th>Max panel width(^2)</th>
<th>Max clear opening width(^2)</th>
<th>Max track length(^2)</th>
<th>Ref. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>39&quot; (990)</td>
<td>36-5/8&quot; (930)</td>
<td>57&quot; (1448)</td>
<td>54-5/8&quot; (1388)</td>
<td>157-1/2&quot; (4000)</td>
<td>236.391</td>
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<tr>
<td>26&quot; (660)</td>
<td>23-5/8&quot; (600)</td>
<td>57&quot; (1448)</td>
<td>54-5/8&quot; (1388)</td>
<td>157-1/2&quot; (4000)</td>
<td>236.390</td>
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### 2P ceiling surface by 2FP – Set for ceiling surface installation with two sliding panels and two fixed panels.

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<th>Max panel width(^2)</th>
<th>Max clear opening width(^2)</th>
<th>Max track length(^2)</th>
<th>Ref. No.</th>
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</thead>
<tbody>
<tr>
<td>39&quot; (990)</td>
<td>75-13/16&quot; (1926)</td>
<td>57&quot; (1448)</td>
<td>111-7/8&quot; (2842)</td>
<td>157-1/2&quot; (4000)</td>
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<tr>
<td>26&quot; (660)</td>
<td>49-13/16&quot; (1266)</td>
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<td>111-7/8&quot; (2842)</td>
<td>157-1/2&quot; (4000)</td>
<td>236.392</td>
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</table>

\(^2\) 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 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.

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

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

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

<table>
<thead>
<tr>
<th>Min panel width</th>
<th>Min clear opening width</th>
<th>Max panel width</th>
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</thead>
<tbody>
<tr>
<td>1P L 80 DM W</td>
<td></td>
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<tr>
<td>STK</td>
<td>39” (990)</td>
<td>36-5/8” (930)</td>
<td>57” (1448)</td>
<td>54-5/8” (1388)</td>
<td>113-3/8” (2880)</td>
</tr>
<tr>
<td>MTO</td>
<td>39” (990)</td>
<td>36-5/8” (930)</td>
<td>57” (1448)</td>
<td>54-5/8” (1388)</td>
<td>157-1/2” (4000)</td>
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</table>

1P L 80 W

<table>
<thead>
<tr>
<th>Min panel width</th>
<th>Min clear opening width</th>
<th>Max panel width</th>
<th>Max clear opening width</th>
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<tbody>
<tr>
<td>1P L 80 W</td>
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<tr>
<td>STK</td>
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<td>54-5/8” (1388)</td>
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<tr>
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<td>54-5/8” (1388)</td>
<td>157-1/2” (4000)</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Min panel width</th>
<th>Min clear opening width</th>
<th>Max panel width</th>
<th>Max clear opening width</th>
<th>Max track length</th>
<th>Ref. No.</th>
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</thead>
<tbody>
<tr>
<td>1P L 80 DM CE-S</td>
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<tr>
<td>STK</td>
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<td>36-5/8” (930)</td>
<td>57” (1448)</td>
<td>54-5/8” (1388)</td>
<td>113-3/8” (2880)</td>
</tr>
<tr>
<td>MTO</td>
<td>39” (990)</td>
<td>36-5/8” (930)</td>
<td>57” (1448)</td>
<td>54-5/8” (1388)</td>
<td>157-1/2” (4000)</td>
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1P L 80 CE-S

<table>
<thead>
<tr>
<th>Min panel width</th>
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<th>Max clear opening width</th>
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<th>Ref. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1P L 80 CE-S</td>
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</tr>
<tr>
<td>STK</td>
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<td>23-5/8” (600)</td>
<td>57” (1448)</td>
<td>54-5/8” (1388)</td>
<td>114-3/16” (2900)</td>
</tr>
<tr>
<td>MTO</td>
<td>26” (660)</td>
<td>23-5/8” (600)</td>
<td>57” (1448)</td>
<td>54-5/8” (1388)</td>
<td>157-1/2” (4000)</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Min panel width</th>
<th>Min clear opening width</th>
<th>Max panel width</th>
<th>Max clear opening width</th>
<th>Max track length</th>
<th>Ref. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1P L 80 DM G</td>
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<td></td>
</tr>
<tr>
<td>MTO</td>
<td>39” (990)</td>
<td>36-5/8” (930)</td>
<td>57” (1448)</td>
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</table>

1P L 80 G

<table>
<thead>
<tr>
<th>Min panel width</th>
<th>Min clear opening width</th>
<th>Max panel width</th>
<th>Max clear opening width</th>
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<th>Ref. No.</th>
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</thead>
<tbody>
<tr>
<td>1P L 80 G</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MTO</td>
<td>26” (660)</td>
<td>23-5/8” (600)</td>
<td>57” (1448)</td>
<td>54-5/8” (1388)</td>
<td>157-1/2” (4000)</td>
</tr>
</tbody>
</table>

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 two sliding panels

Incl. track/endcaps, cover, cover clips, gasket, end stops, roller carriers, DORMOTION¹, DM start/stops¹, 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 installation – Set for wall installation with two sliding panels.

<table>
<thead>
<tr>
<th>Min panel width</th>
<th>Min clear opening width</th>
<th>Max panel width¹</th>
<th>Max clear opening width²</th>
<th>Max track length²</th>
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<tbody>
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<td>2P L 80 DM W</td>
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<tr>
<td>MTO</td>
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<td>75-13/16&quot; (1926)</td>
<td>57&quot; (1448)</td>
<td>111-7/8&quot; (2842)</td>
<td>157-1/2&quot; (4000)</td>
</tr>
<tr>
<td>2P L 80 W</td>
<td>26&quot; (660)</td>
<td>49-13/16&quot; (1266)</td>
<td>57&quot; (1448)</td>
<td>111-7/8&quot; (2842)</td>
<td>157-1/2&quot; (4000)</td>
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</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Min panel width</th>
<th>Min clear opening width</th>
<th>Max panel width¹</th>
<th>Max clear opening width²</th>
<th>Max track length²</th>
<th>Ref. No.</th>
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<tbody>
<tr>
<td>2P L 80 DM CE-S</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>MTO</td>
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<td>75-13/16&quot; (1926)</td>
<td>57&quot; (1448)</td>
<td>111-7/8&quot; (2842)</td>
<td>157-1/2&quot; (4000)</td>
</tr>
<tr>
<td>2P L 80 CE-S</td>
<td>26&quot; (660)</td>
<td>49-13/16&quot; (1266)</td>
<td>57&quot; (1448)</td>
<td>111-7/8&quot; (2842)</td>
<td>157-1/2&quot; (4000)</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Min panel width</th>
<th>Min clear opening width</th>
<th>Max panel width¹</th>
<th>Max clear opening width²</th>
<th>Max track length²</th>
<th>Ref. No.</th>
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</thead>
<tbody>
<tr>
<td>2P L 80 DM G</td>
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<td></td>
</tr>
<tr>
<td>MTO</td>
<td>39&quot; (990)</td>
<td>75-13/16&quot; (1926)</td>
<td>57&quot; (1448)</td>
<td>111-7/8&quot; (2842)</td>
<td>157-1/2&quot; (4000)</td>
</tr>
<tr>
<td>2P L 80 G</td>
<td>26&quot; (660)</td>
<td>49-13/16&quot; (1266)</td>
<td>57&quot; (1448)</td>
<td>111-7/8&quot; (2842)</td>
<td>157-1/2&quot; (4000)</td>
</tr>
</tbody>
</table>

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 M 50 DORMOTION (DM) / M 50
Typical assemblies mounted to wall and to ceiling

Features and data
For installation with one sliding door panel mounted to wall; for 5/16” – 3/8” (8–10) thick glass

Max. weight of door panels
110 lb (50 kg)

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

<table>
<thead>
<tr>
<th>M 50 DM</th>
<th>M 50</th>
</tr>
</thead>
<tbody>
<tr>
<td>min $DW$</td>
<td>35-5/8&quot; (905)</td>
</tr>
<tr>
<td>max $DW$</td>
<td>42&quot; (1067)</td>
</tr>
</tbody>
</table>

Calculation of glass height
$GH = CH + 3/4\" (18) + X$
max 84\" (2134)

Calculation of glass height
$GH = TH - 1-9/16\" (40)$
max 84\" (2134)
Comfort M 50 DORMOTION (DM) / M 50

Typical assemblies for wood doors

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

Max. weight of door panels
110 lb (50 kg)

Calculation of door width
\[ DW = CW + 2\frac{3}{8}" \ (60) \]

<table>
<thead>
<tr>
<th></th>
<th>M 50 DM</th>
<th>M 50</th>
</tr>
</thead>
<tbody>
<tr>
<td>min DW</td>
<td>35-5/8” (905)</td>
<td>26” (660)</td>
</tr>
<tr>
<td>max DW</td>
<td>42” (1067)</td>
<td>42” (1067)</td>
</tr>
</tbody>
</table>

- \( DW \) = Door width
- \( TL \) = Track length
- \( TH \) = Total height
- \( CH \) = Clear opening height
- \( CW \) = Clear opening width
- \( DH \) = Door height
- \( DT \) = Door (wood) thickness
- \( X \) = Bottom of track channel to top of clear opening

Calculation of door height
\[ DH = CH - 11/16" (17) + X \]
max 84” (2134)

Calculation of door height
\[ DH = TH - 3" (75) \]
max 84” (2134)
Comfort M 50 DORMOTION (DM) / M 50
Sliding door sets with one sliding panel

Incl. track/endcaps, cover, cover clips, gasket, end stops, roller carriers, and floor guide. Complete accessories for 5/16”–3/8” (8 –10) thick glass.

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

<table>
<thead>
<tr>
<th></th>
<th>Min panel width</th>
<th>Min clear opening width</th>
<th>Max panel width²</th>
<th>Max clear opening width²</th>
<th>Max track length²</th>
<th>Ref. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1P M 50 DM W (DM optional)¹</td>
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<tr>
<td>STK</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>35-5/8” (905)</td>
<td>33-1/4” (845)</td>
<td>42”</td>
<td>39-5/8” (1007)</td>
<td>157-1/2” (4000)</td>
<td>836.106</td>
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</tbody>
</table>

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

<table>
<thead>
<tr>
<th></th>
<th>Min panel width</th>
<th>Min clear opening width</th>
<th>Max panel width²</th>
<th>Max clear opening width²</th>
<th>Max track length²</th>
<th>Ref. No.</th>
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</thead>
<tbody>
<tr>
<td>1P M 50 DM CE-S (DM optional)¹</td>
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</tr>
<tr>
<td></td>
<td>35-5/8” (905)</td>
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<td>39-5/8” (1007)</td>
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1P M 50 W

<table>
<thead>
<tr>
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<th>Min panel width</th>
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<th>Max panel width²</th>
<th>Max clear opening width²</th>
<th>Max track length²</th>
<th>Ref. No.</th>
</tr>
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<td>STK</td>
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</tr>
<tr>
<td></td>
<td>26” (660)</td>
<td>23-5/8” (600)</td>
<td>42”</td>
<td>39-5/8” (1007)</td>
<td>157-1/2” (4000)</td>
<td>836.106</td>
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</table>

1P M 50 CE-S

<table>
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<tr>
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<th>Min panel width</th>
<th>Min clear opening width</th>
<th>Max panel width²</th>
<th>Max clear opening width²</th>
<th>Max track length²</th>
<th>Ref. No.</th>
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<td>STK</td>
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<tr>
<td></td>
<td>26” (660)</td>
<td>23-5/8” (600)</td>
<td>42”</td>
<td>39-5/8” (1007)</td>
<td>113-3/8” (2880)</td>
<td>836.107</td>
</tr>
</tbody>
</table>

¹ For MUTO Comfort M 50 with DORMOTION, accessory option Ref. No. 836.153 must be added as an add.

² Track length is 113-3/8” (2880).

² For MUTO Comfort M 50 wood door kit, order accessory option: Ref. No. 836.157.
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

- **Comfort M 50 accessory set**
  - For use with M 50 or M 50 with optional DM
  - Consisting of 2 clamp carriers, 2 endstops, 1 floor guide, and hooks for non-DM units
  - Ref. No. 836.150

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

- **Comfort M 50 roller carrier gasket set**
  - For use with M50 or M 50 with optional DM
  - Ref. No. 836.151

- **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 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 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 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

<table>
<thead>
<tr>
<th>Part Description</th>
<th>Reference Numbers</th>
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<tbody>
<tr>
<td><strong>Premium XL 120 SC wall track</strong></td>
<td>Ref. No. 936.850</td>
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<tr>
<td>Track rail for XL 120 Self-Closing (SC) function</td>
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<tr>
<td>Wall track</td>
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<tr>
<td>Fixed length</td>
<td>157-1/2” (4000)</td>
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<td>Specify length (by ft.)</td>
<td>Ref. No. 836.651</td>
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<tr>
<td><strong>Premium XL 120 SC ceiling track</strong></td>
<td>Ref. No. 936.852</td>
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<tr>
<td>Track rail for ceiling surface mount for XL 120 SC</td>
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<tr>
<td>Ceiling track</td>
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<td>Fixed length</td>
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<td>Specify length (by ft.)</td>
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<td><strong>Premium XL 120 cover profile</strong></td>
<td>Ref. No. 936.854</td>
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<tr>
<td>Cover profile for XL 120 Self-Closing function</td>
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<tr>
<td>Front cover</td>
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<tr>
<td>Fixed length</td>
<td>157-1/2” (4000)</td>
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<tr>
<td>Specify length (by ft.)</td>
<td>Ref. No. 836.655</td>
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<tr>
<td><strong>Premium XL 120 cover profile kit (CE-R)</strong></td>
<td>Ref. No. 936.656</td>
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<tr>
<td>Track rail for XL 120 Self-Closing (SC)</td>
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<tr>
<td>Front cover profile kit</td>
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<td>Fixed length</td>
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<td><strong>Premium XL 120 SC ceiling fixed panel track</strong></td>
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<tr>
<td>Track rail for ceiling, fixed panel surface mount</td>
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<td>Fixed length</td>
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<tr>
<td>Specify length (by ft.)</td>
<td>Ref. No. 936.857</td>
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</tbody>
</table>
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

**Comfort M 50 wood door kit**
Wood door adapter set

Profile: 1/2" x 1-3/8" (10 x 35) incl. mounting screws, and wood door floor guide

Ref. No. 836.157

Wood door floor guide

**MUTO wood door floor guide**
Adjustable
5/16" – 17/32" (8 – 13)
Ref. No. 836.148
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

**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

**Premium XL 120 Self-Closing endcaps**
Set endcaps for XL 120 SC for wall and ceiling installation
Ref. No. 836.656

**Comfort L 80 endcaps**
Set endcaps for wall and ceiling installation for L 80 DM and L 80
Ref. No. 836.354

**Comfort L 80 glass mount endcaps**
Set endcaps for installation on glass for L 80 DM and L 80
Ref. No. 836.260

**Comfort M 50 endcaps**
Endcaps set for use with M50 or M 50 with optional DM
Ref. No. 836.152
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 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 M 50 DM set**
Optional DORMOTION unit, incl. DM start/stop
Ref. No. 836.153

**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

**Comfort L 80**
DORMOTION unit
L 80 DORMOTION spring cushioning unit for max 176 lb (80 kg) with set of start/stops
Ref. No. 836.355

**Premium XL 120 SC**
DMSC Accessory Set
Includes DORMOTION Cushion and 1 DM start/stop
Ref. No. 836.666

**Premium XL 80 TEL DM**
Accessory Set
Includes DORMOTION Cushion and 2 DM start/stops
Ref. No. 836.786

DORMOTION start/stop kits

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

**Premium XL 120 Self-Closing start/stop**
For Self-Closing DORMOTION
One piece service part
Ref. No. 836.662

**Comfort L 80 DM start/stop set**
L 80 DORMOTION start/stop set
Ref. No. 836.356

**Comfort M 50 DM start/stop set**
Service part
Ref. No. 836.154
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 wire 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 wire; not compatible with Synchro Cable
(Extended lead-time)
Ref. No. 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

Comfort cover brush
Brush profile for 5/16" – 3/8" (8 – 10)
Ref. No. 807.424
Note: For M 50, brush attaches to track.
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

**Comfort M 50 endstops**
Endstop set, 2 pieces for use with M 50 or M 50 with optional DM
Ref. No. 836.158

Bumper sets

**Premium XL 150/120/80 bumper set**
Set of 2 bumpers; used in endstops for XL 150/120/80
Ref. No. 836.466

**Comfort L 80 bumper set**
Set of 2 bumpers; used in endstops for L 80 DM or L 80
Ref. No. 836.268

**Comfort M 50 bumper set**
Set of 2 bumpers; used in endstops for M 50 or M 50 with optional DM
Ref. No. 836.159

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

**M4 Long Hex Bit**
Recessed mount service item
Ref. No. 936.898

**M4 Short Hex Bit**
Recessed mount service item
Ref. No. 936.899

**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

**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

**MUTO tool kit**
Accessory tool kit, incl. typical tools used for installation and adjustment of MUTO Comfort systems
Ref. No. 936.996