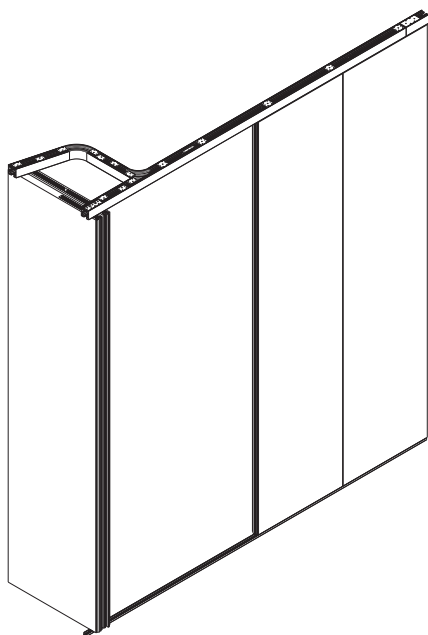




## Planung und Montage

*Beschlag für Holzschiebewände 90° zur Schiebachse gestapelt.*

## Planification et montage

*Ferrures pour cloisons coulissantes en bois, avec rangement perpendiculaire à l'axe de coulissement.*

## Planning and installation

*Hardware system for wooden sliding walls that are stacking at right angle to the slide axis.*

## Pianificazione e montaggio

*Ferramenta per porte scorrevoli in legno parcheggiate a 90° in rispetto all'asse di scorrimento.*

## Planificación y montaje

*Herraje para tabiques deslizantes de madera apilados a 90° al eje del deslizamiento.*

■ Hawa Teile ■ Eléments Hawa ■ Hawa components ■ Componenti Hawa ■ Componentes Hawa

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|                                                 |  |              | 04.2003 / STJ                                            |  |                                                                                                                                                                                                                                                                                                                                                                                                                                |
|                                                 |  |              | Änderung/Modification/Modification/Modifica/Modificación |  |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 05.2011 / RHU                                   |  |              |                                                          |  |                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Ersetzt/Remplace/Replaces/Sostituisce/Reemplaza |  |              |                                                          |  |                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| 02.2013 / MFR                                   |  |              |                                                          |  |                                                                                                                                                                                                                                                                                                                                                                                                                                |

- a) 20.06.02 / MFR (2760)
- 10.07.02 / MFR (2779)
- b) 28.04.03 / WÜT (2921)
- 10.03.04 / BKU (3133)
- c) 12.2005 / BKU (3400 / 3519)
- d) 15.05.08 / MFR (4078)
- e) 06.12.10 / FÜG (4615)
- 20120008 / FÜG

**Deutsch****Hawa Aperto 60 H**

Normstapelraum für 7 Schiebe- und 1 Drehtüre - minimale Türbreite 550 mm  
Normstapelraum für 8 Schiebe- und 1 Drehtüre - minimale Türbreite 600 mm  
Maximales Türgewicht 60 kg  
Maximale Türhöhe 2600 mm  
Minimale Türbreite 550 mm  
Maximale Türbreite 950 mm  
Türdicke 35 – 50 mm

Spezialanlage Rücksprache mit Hawa Sliding Solutions AG

**Français****Hawa Aperto 60 H**

Espace de parcage standard p. 7 portes coulissantes et 1 porte pivotante - largeur par porte min. 550 mm  
Espace de parcage standard p. 8 portes coulissantes et 1 porte pivotante - largeur par porte min. 600 mm  
Poids maximum par porte 60 kg  
Hauteur maximum par porte 2600 mm  
Largeur minimum par porte 550 mm  
Largeur maximum par porte 950 mm  
Epaisseur de porte 35 à 50 mm

Modèle spécial, veuillez consulter Hawa Sliding Solutions AG

**English****Hawa Aperto 60 H**

Standard parking area for 7 sliding doors and 1 pivot door - minimum panel width 550 mm (1'9  $\frac{21}{32}$ ")  
Standard parking area for 8 sliding doors and 1 pivot door - minimum panel width 600 mm (1'11  $\frac{5}{8}$ ")  
Maximum panel weight 60 kg (132 lbs.)  
Maximum panel height 2600 mm (8'6  $\frac{3}{8}$ ")  
Minimum panel width 550 mm (1'9  $\frac{21}{32}$ ")  
Maximum panel width 950 mm (3'1  $\frac{13}{32}$ ")  
Panel thickness 35 to 50 mm (1  $\frac{3}{8}$ " to 1  $\frac{31}{32}$ ")

Special model, please consult Hawa Sliding Solutions AG

**Italiano****Hawa Aperto 60 H**

Parcheggio normalizzato per 7 porte scorrevoli e 1 porta girevole - larghezza minima della porta 550 mm  
Parcheggio normalizzato per 8 porte scorrevoli e 1 porta girevole - larghezza minima della porta 600 mm  
Peso massimo della porta 60 kg  
Altezza massima della porta 2600 mm  
Larghezza minima della porta 550 mm  
Larghezza massima della porta 950 mm  
Spessore della porta 35 – 50 mm

Impianto speciale, consultare la Hawa Sliding Solutions AG

**Español****Hawa Aperto 60 H**

Área de apilado normalizado para 7 paneles deslizantes y 1 puerta pivotante - ancho mínimo de los paneles 550 mm  
Área de apilado normalizado para 8 paneles deslizantes y 1 puerta pivotante - ancho mínimo de los paneles 600 mm  
Peso máximo del panel 60 kg  
Altura máxima del panel 2600 mm  
Ancho mínimo del panel 550 mm  
Ancho máximo del panel 950 mm  
Espesores del panel 35 a 50 mm

En caso de instalaciones especiales consultar con Hawa Sliding Solutions AG

Technische Änderungen vorbehalten  
Sous réserve de modifications techniques  
Subject to modification

Con riserva di apportare modifiche tecniche  
Bajo reserva de modificaciones técnicas

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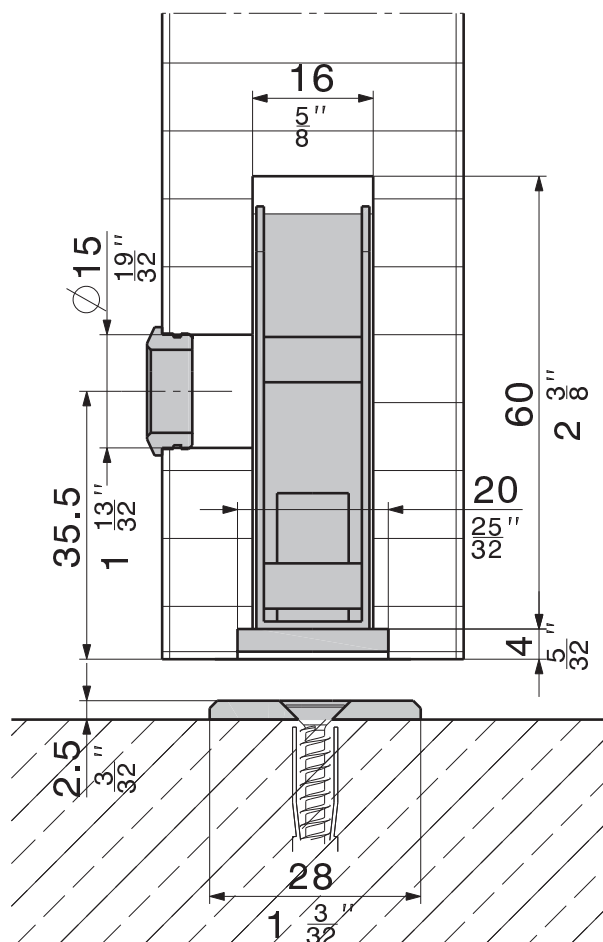
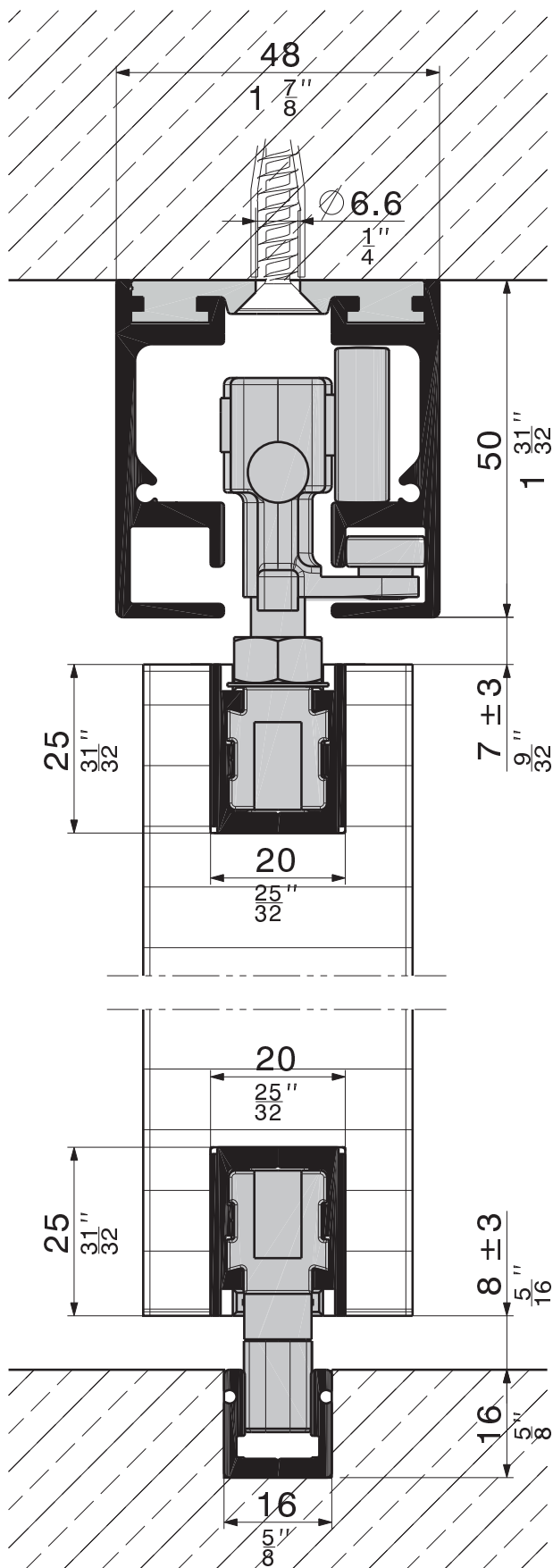
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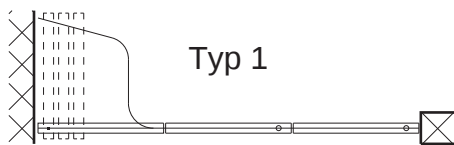
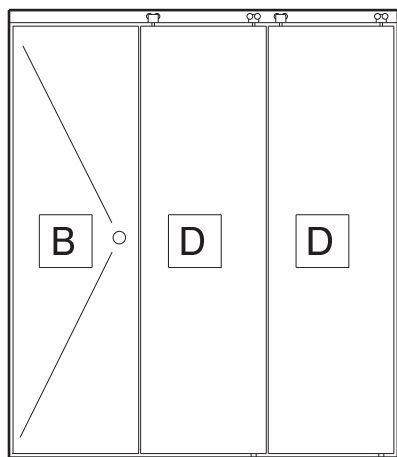


Technische Änderungen vorbehalten  
Sous réserve de modifications techniques  
Subject to modification

Con riserva di apportare modifiche tecniche  
Bajo reserva de modificaciones técnicas

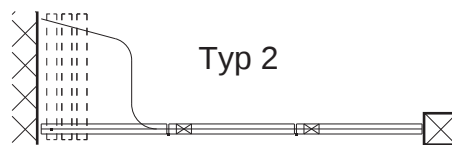
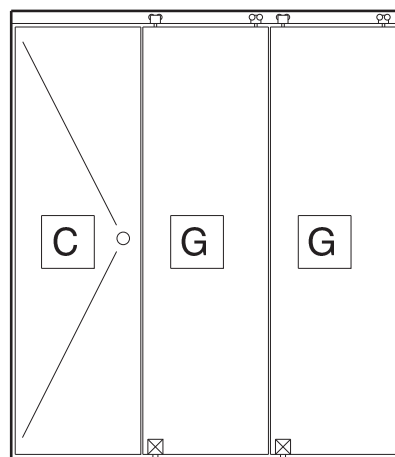
**Anlage-Typen**  
**Types d'installations**  
**System types**  
**Tipi sistemi**  
**Tipos de sistemas**

Mit Führungsschiene  
 Avec rail de guidage  
 With bottom guide channel  
 Con guida  
 Con riel de guía

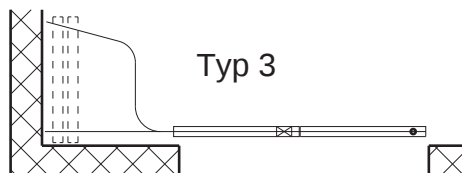
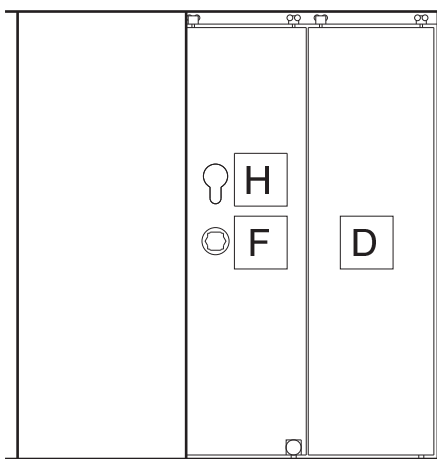


Typ 1

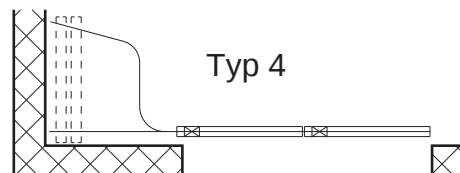
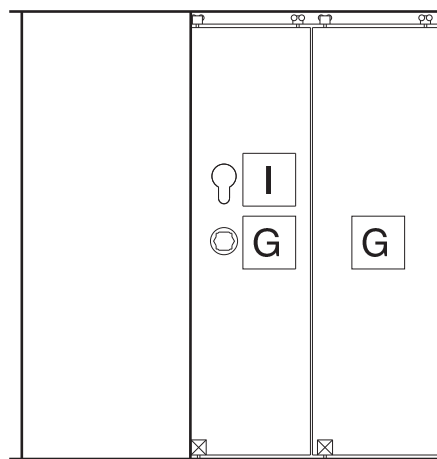
Ohne Führungsschiene  
 Sans rail de guidage  
 Without bottom guide channel  
 Senza guida  
 Sin riel de guía



Typ 2



Typ 3

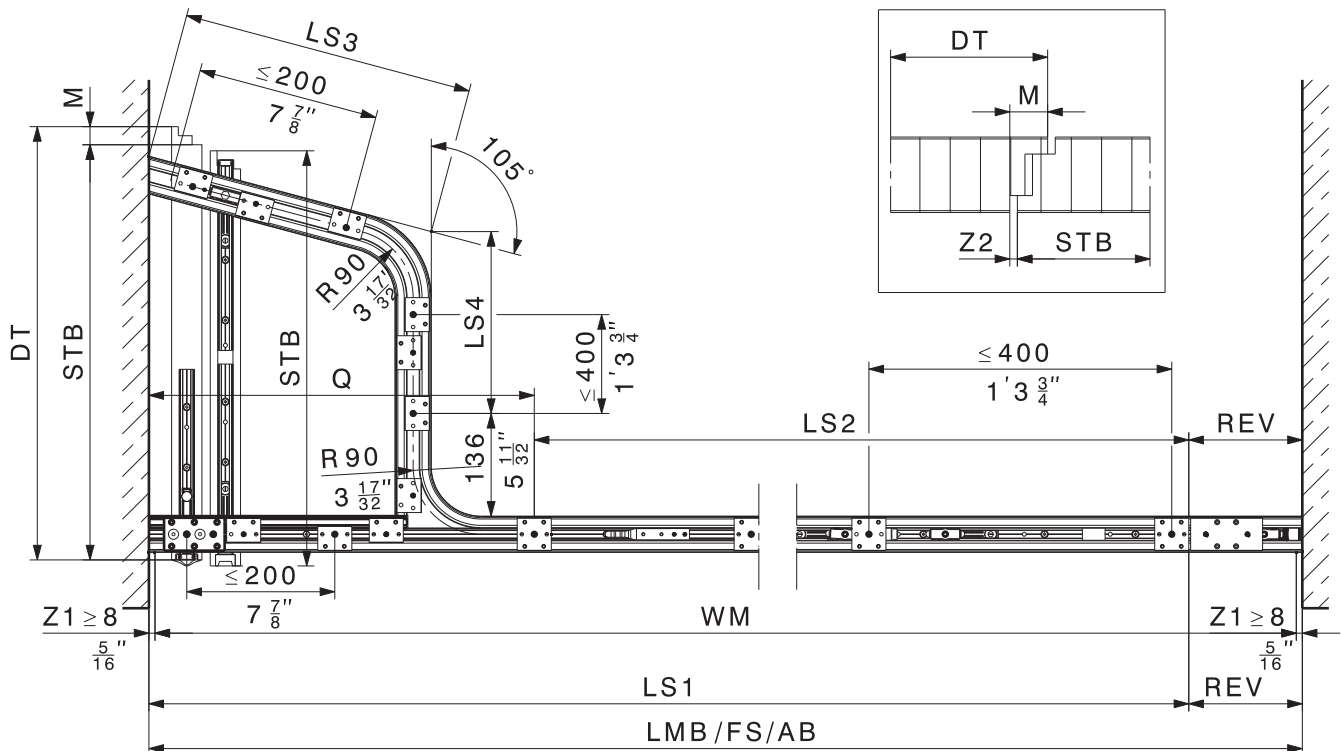


Typ 4

☐ Bolzenriegelschloss mit Führungszapfen  
 Serrure à pêne avec goujon de guidage  
 Bar bolt lock with guide pin  
 Serratura a chiavistello con perno di guida  
 Cerradura de pasador con perno de guía

☒ Bolzenriegelschloss  
 Serrure à pêne  
 Bar bolt lock  
 Serratura a chiavistello  
 Cerradura de pasador

**Berechnungen ab Lichtmassbreite (LMB) für Anlagen mit Drehtüren**  
**Calculs à partir de la largeur intérieure (LMB) pour installations avec portes pivotantes**  
**Calculations as from the inside width (LMB) for installations with pivot doors**  
**Calcoli a partire dalla larghezza interna (LMB) per costruzioni con porte girevoli**  
**Cálculo a partir del ancho de luz (LMB) para instalaciones con puertas pivotantes**



|       |                                                                                                                                                                                                           |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Z1 =  | Luft Wand bis Türe<br>Jeu entre mur et porte<br>Clearance between wall and door<br>Aria entre parete e porta<br>Espacio entre muro y panel                                                                |
| Z2 =  | Luft Türzwischenräume STB<br>Jeu de l'espacement de porte STB<br>Clearance of door interspace STB<br>Aria interapedini porte STB<br>Espacio intermedio ancho panel STB                                    |
| AT =  | Anzahl Türen inkl. Drehtüre<br>Nombre de portes, y compris porte pivotante<br>Number of doors, including pivot door<br>Numero porte, incl. porta girevole<br>Número de paneles, incluido puerta pivotante |
| DT =  | Drehtüre<br>Porte pivotante<br>Pivot door<br>Porta girevole<br>Puerta pivotante                                                                                                                           |
| FS =  | Führungsschiene<br>Rail de guidage<br>Bottom guide channel<br>Guida<br>Riel de guía                                                                                                                       |
| LS =  | Laufschiene<br>Rail de roulement<br>Top track<br>Binario<br>Riel de rodadura                                                                                                                              |
| M =   | Falzmass<br>Cote de feuillure<br>Rebate dimension<br>Dimensione incastro<br>Dimensión de encaje                                                                                                           |
| REV = | Laufschiene-Endstück<br>Embout pour rails de roulement<br>End-piece for top tracks<br>Finecorsa rotaia<br>Pieza final del riel de rodadura                                                                |

|       |     |
|-------|-----|
| Z1 =  |     |
| Z2 =  |     |
| REV = | 150 |
| AT =  |     |
| LMB = |     |
| M =   |     |

|     |   |                                 |  |
|-----|---|---------------------------------|--|
| WM  | = | $LMB - (2 \times Z1)$           |  |
| STB | = | $\frac{WM + Z2}{AT} - Z2$       |  |
| LS3 | = | $(AT \times 51) + 180$          |  |
| LS4 | = | $STB - 220 - (LS3 \times 0.26)$ |  |
| Q   | = | $(LS3 \times 0.97) + 136$       |  |
| LS1 | = | $LMB - REV$                     |  |
| LS2 | = | $LMB - Q - REV$                 |  |
| FS  | = | $LMB$                           |  |
| DT  | = | $STB + M$                       |  |

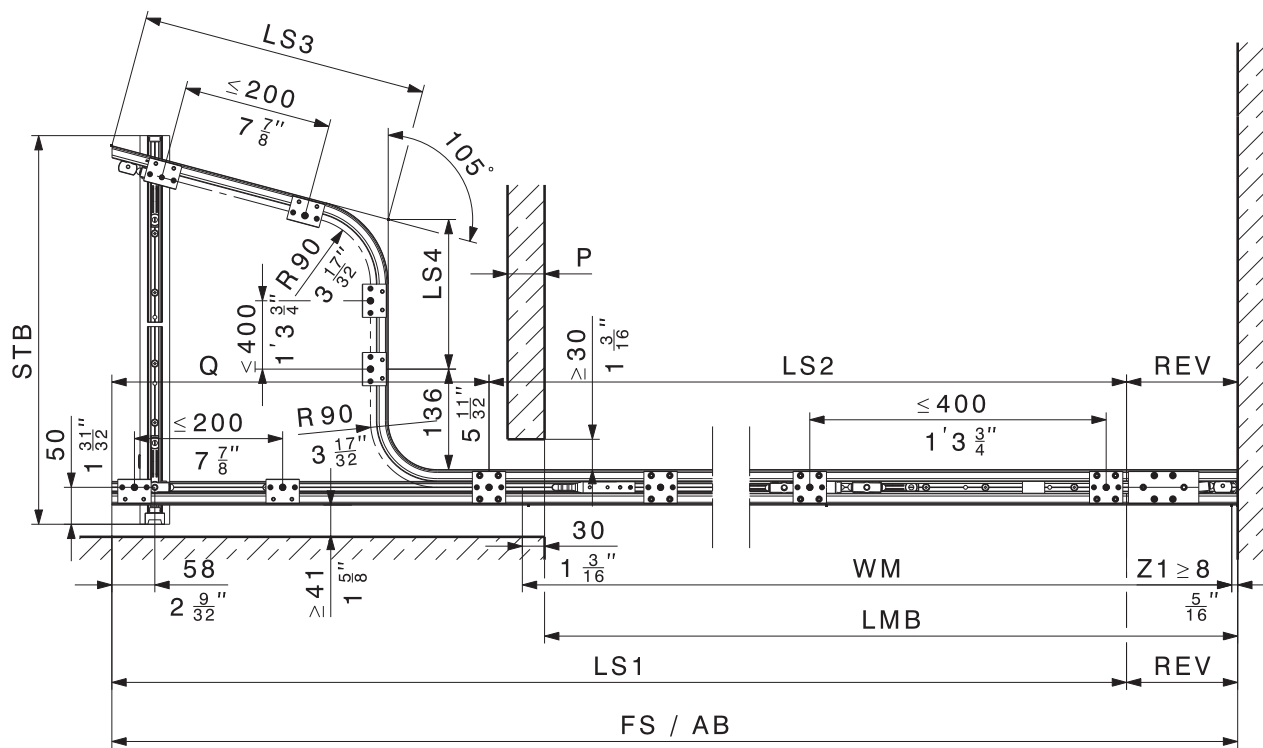
**Berechnungen ab Mass P für Anlagen mit Schiebetüren**

**Calculs à partir de la cote P pour installations avec portes coulissantes**

**Calculations based on dimension P for installations with sliding doors**

**Calcoli a partire dalla misura P per costruzioni con porte scorrevoli**

**Cálculo a partir de la dimensión P para instalaciones con paneles deslizantes**

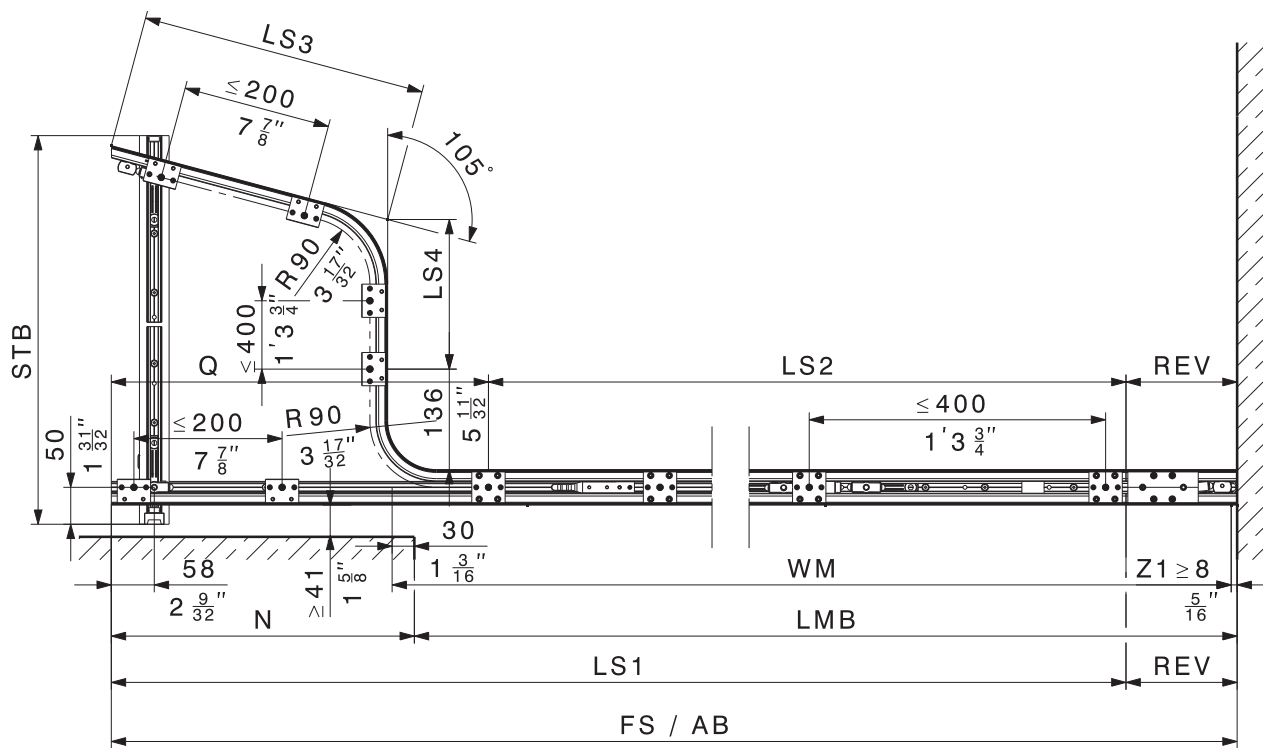


|       |                                                                                                                                              |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------|
| LMB = | Lichtmassbreite<br>Largeur intérieur<br>Inside width<br>Larghezza interna<br>Ancho de luz                                                    |
| ST =  | Anzahl Schiebetüren<br>Nombre de portes coulissantes<br>Number of sliding panels<br>Numero porte scorrevoli<br>Número de paneles deslizantes |
| STB = | Schiebetürbreite<br>Largeur de la porte coulissante<br>Sliding door width<br>Larghezza porta scorrevole<br>Ancho del panel deslizante        |
| REV = | Laufschienen-Endstück<br>Embout pour rails de roulement<br>End-piece for top tracks<br>Finecorsa binario<br>Pieza final del riel de rodadura |
| FS =  | Führungsschiene<br>Rail de guidage<br>Bottom guide channel<br>Guida<br>Riel de guía                                                          |
| LS =  | Laufschiene<br>Rail de roulement<br>Top track<br>Binario<br>Riel de rodadura                                                                 |
| AB =  | Anlagenbreite<br>Largeur d'installation<br>Installation width<br>Larghezza installazione<br>Ancho de instalación                             |

|       |     |
|-------|-----|
|       | P   |
| REV = | 150 |
| Z1 =  |     |
| Z2 =  |     |
| ST =  |     |
| LMB = |     |
| P =   |     |

|                                 |   |
|---------------------------------|---|
|                                 | P |
| WM = LMB - Z1 + 30              |   |
| STB = $\frac{WM + Z2}{ST} - Z2$ |   |
| LS3 = (ST x 68) + 80            |   |
| LS4 = STB - 220 - (LS3 x 0.26)  |   |
| Q = (LS3 x 0.97) + 136          |   |
| AB = LMB + P + (Q - 260 + STB)  |   |
| LS1 = AB - REV                  |   |
| LS2 = LS1 - Q                   |   |
| FS = AB                         |   |

**Berechnungen ab Mass N für Anlagen mit Schiebetüren**  
**Calculs à partir de la cote N pour installations avec portes coulissantes**  
**Calculations based on dimension N for installations with sliding doors**  
**Calcoli a partire dalla misura N per costruzioni con porte scorrevoli**  
**Cálculo a partir de la dimensión N para instalaciones con paneles deslizantes**

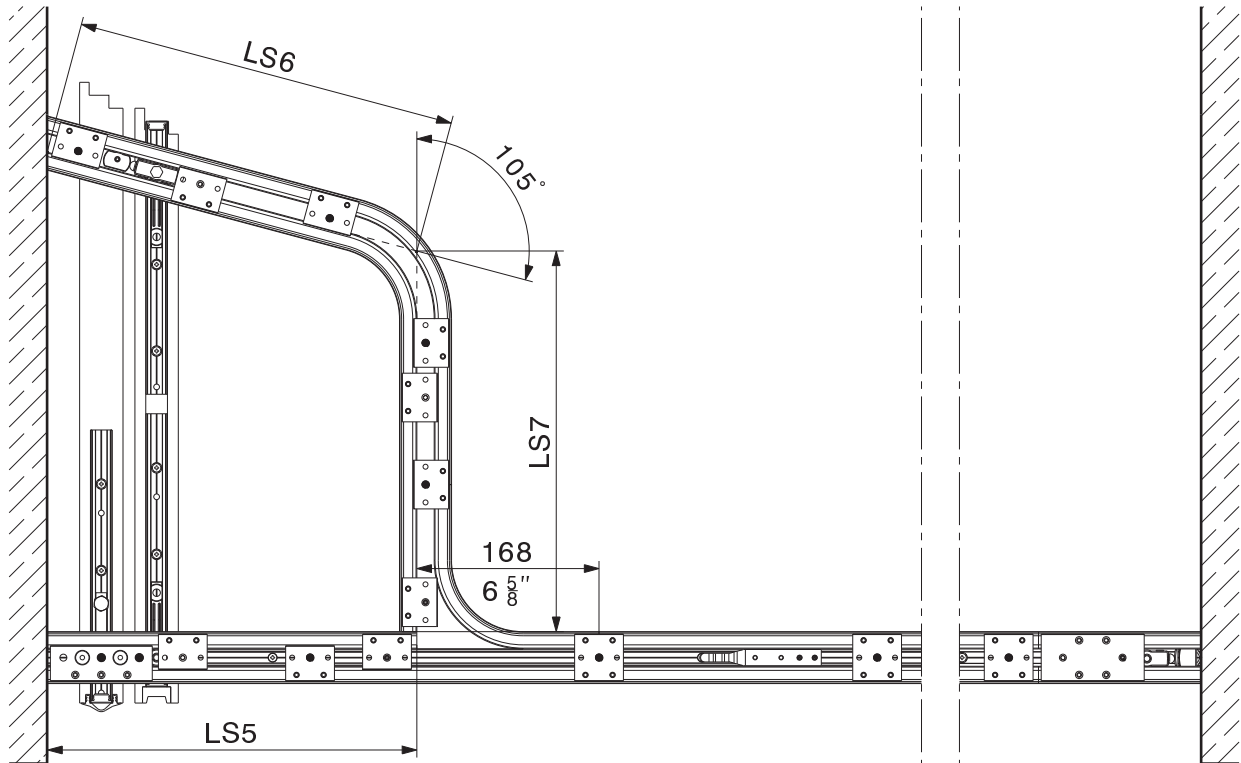


|       |                                                                                                                                              |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------|
| LMB = | Lichtmassbreite<br>Largeur intérieur<br>Inside width<br>Larghezza interna<br>Ancho de luz                                                    |
| ST =  | Anzahl Schiebetüren<br>Nombre de portes coulissantes<br>Number of sliding panels<br>Numero porte scorrevoli<br>Número de paneles deslizantes |
| STB = | Schiebetürbreite<br>Largeur de la porte coulissante<br>Sliding door width<br>Larghezza porta scorrevole<br>Ancho del panel deslizante        |
| REV = | Laufschienen-Endstück<br>Embout pour rails de roulement<br>End-piece for top tracks<br>Finecorsa binario<br>Pieza final del riel de rodadura |
| FS =  | Führungsschiene<br>Rail de guidage<br>Bottom guide channel<br>Guida<br>Riel de guía                                                          |
| LS =  | Laufschiene<br>Rail de roulement<br>Top track<br>Binario<br>Riel de rodadura                                                                 |
| AB =  | Anlagenbreite<br>Largeur d'installation<br>Installation width<br>Larghezza installazione<br>Ancho de instalación                             |

|       |     |
|-------|-----|
|       | N   |
| REV = | 150 |
| Z1 =  |     |
| Z2 =  |     |
| ST =  |     |
| LMB = |     |

|                                 |   |
|---------------------------------|---|
|                                 | N |
| WM = LMB - Z1 + 30              |   |
| STB = $\frac{WM + Z2}{ST}$ - Z2 |   |
| LS3 = (ST x 68) + 80            |   |
| LS4 = STB - 220 - (LS3 x 0.26)  |   |
| Q = (LS3 x 0.97) + 136          |   |
| N = Q - 80                      |   |
| LS1 = LMB + N - REV             |   |
| LS2 = LS1 - Q                   |   |
| AB = LS1 + REV                  |   |
| FS = AB                         |   |

*Berechnung Stapelraum-Innenverblendung*  
*Calcul de cache intérieur pour espace de parcage*  
*Calculation of the stacking area inside covers*  
*Calcolo zona di stipa-rivestimento interno*  
*Cálculo del área de apilado con perfil de cobertura a la vista*



|       |  |
|-------|--|
| Q =   |  |
| LS3 = |  |
| LS4 = |  |

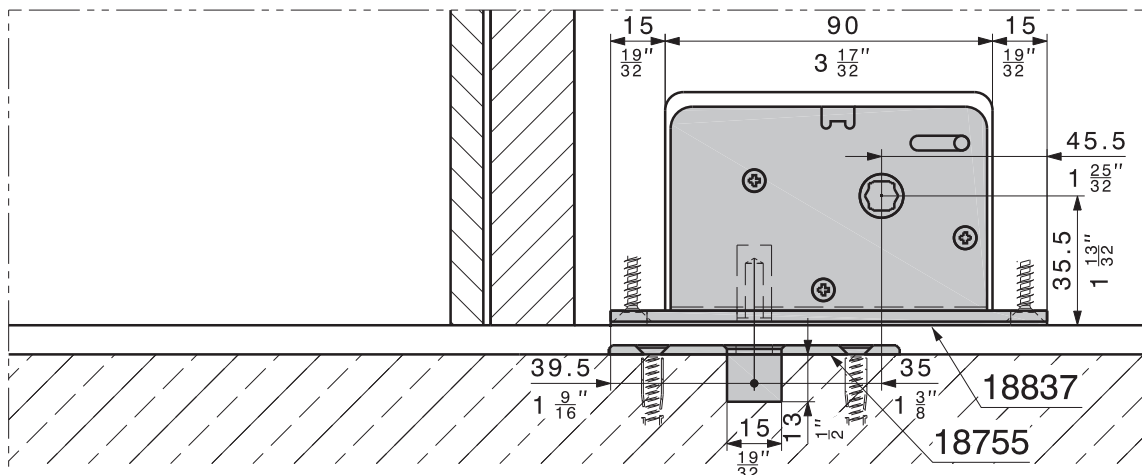
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 voir pages 6–8  
 see pages 6–8  
 vedi pagine 6–8  
 ver páginas 6–8

|                 |  |
|-----------------|--|
| LS5 = Q – 168   |  |
| LS6 = LS3 – 33  |  |
| LS7 = LS4 + 111 |  |

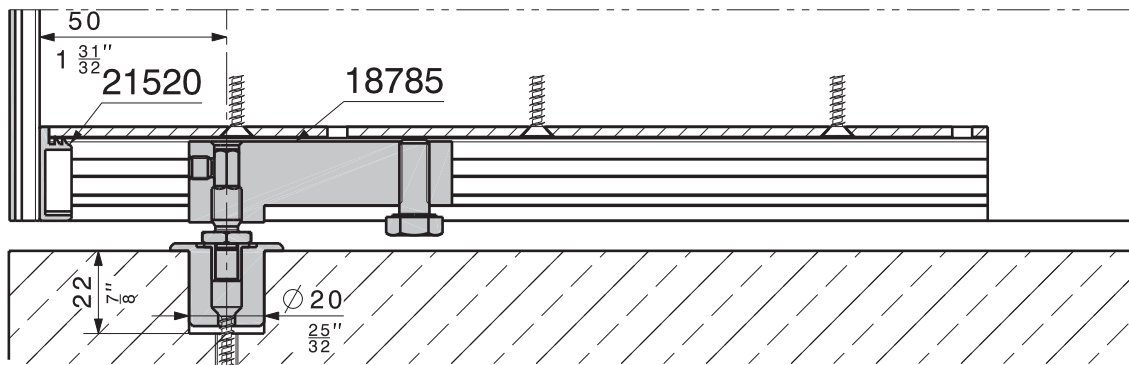
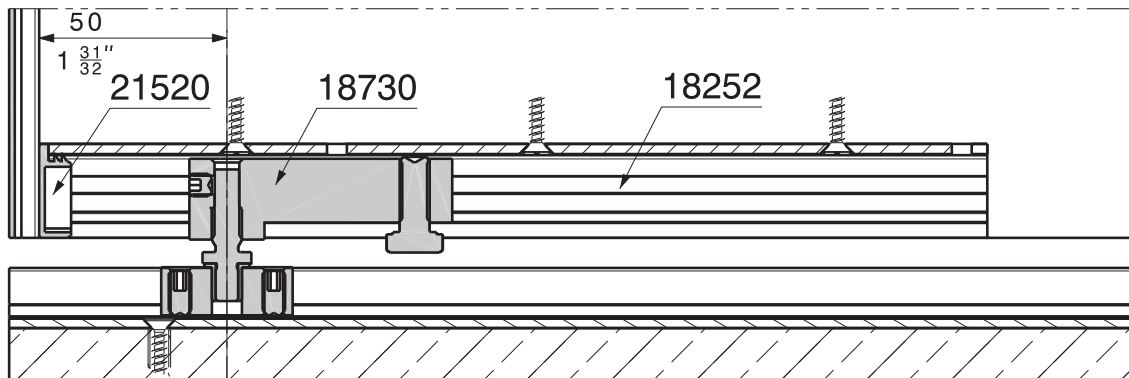
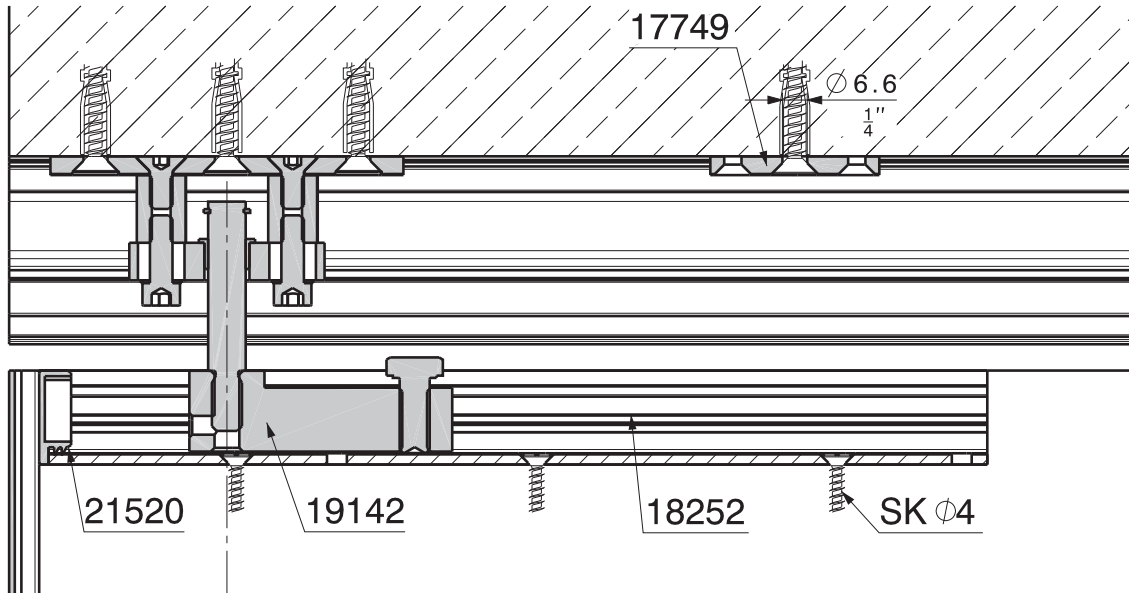
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 Bajo reserva de modificaciones técnicas

### *Componentes paneles deslizantes*



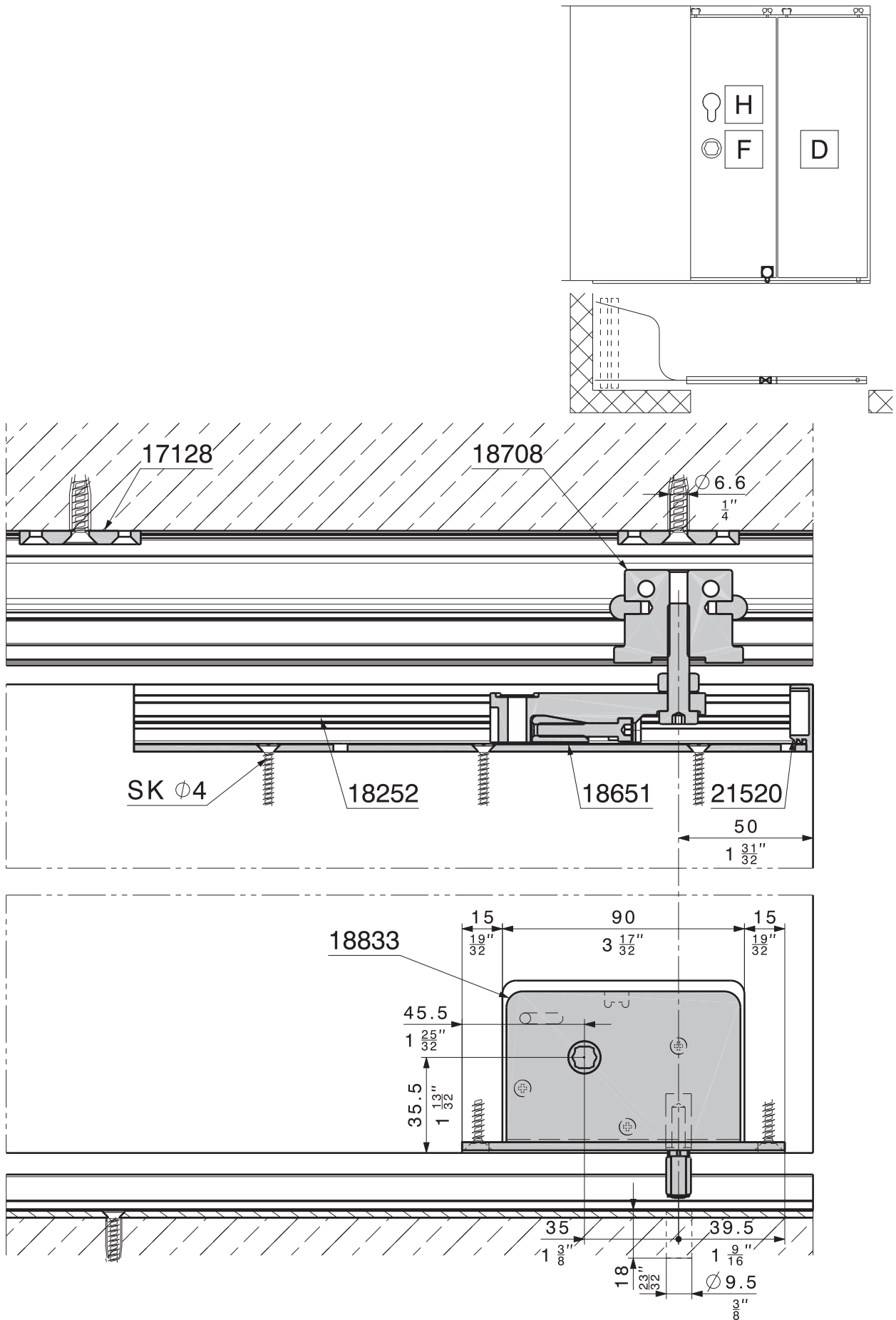
*Komponenten Drehtüren*  
*Composants des portes pivotantes*  
*Components pivot doors*  
*Componenti porte girevoli*  
*Componentes puertas pivotantes*



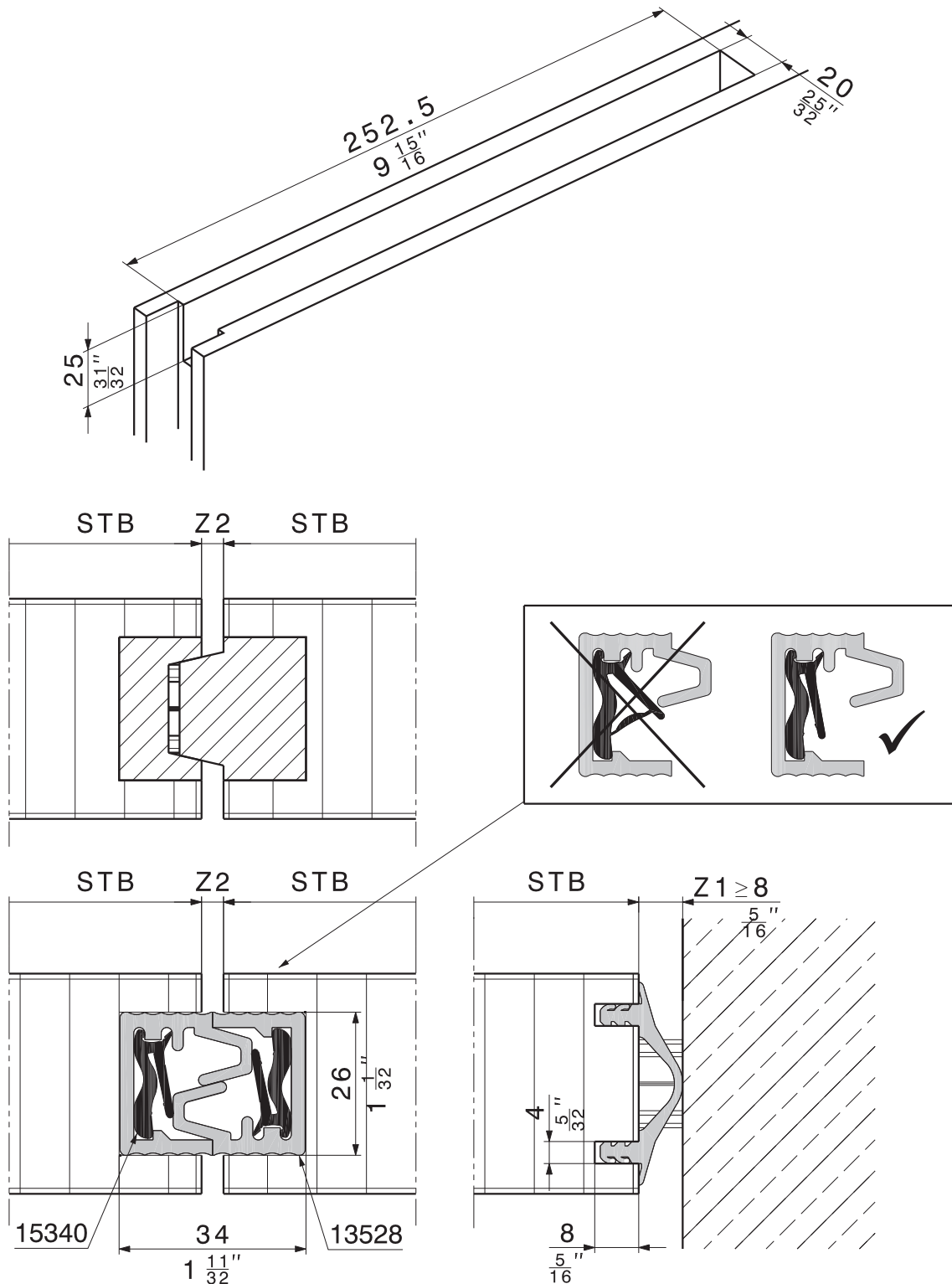
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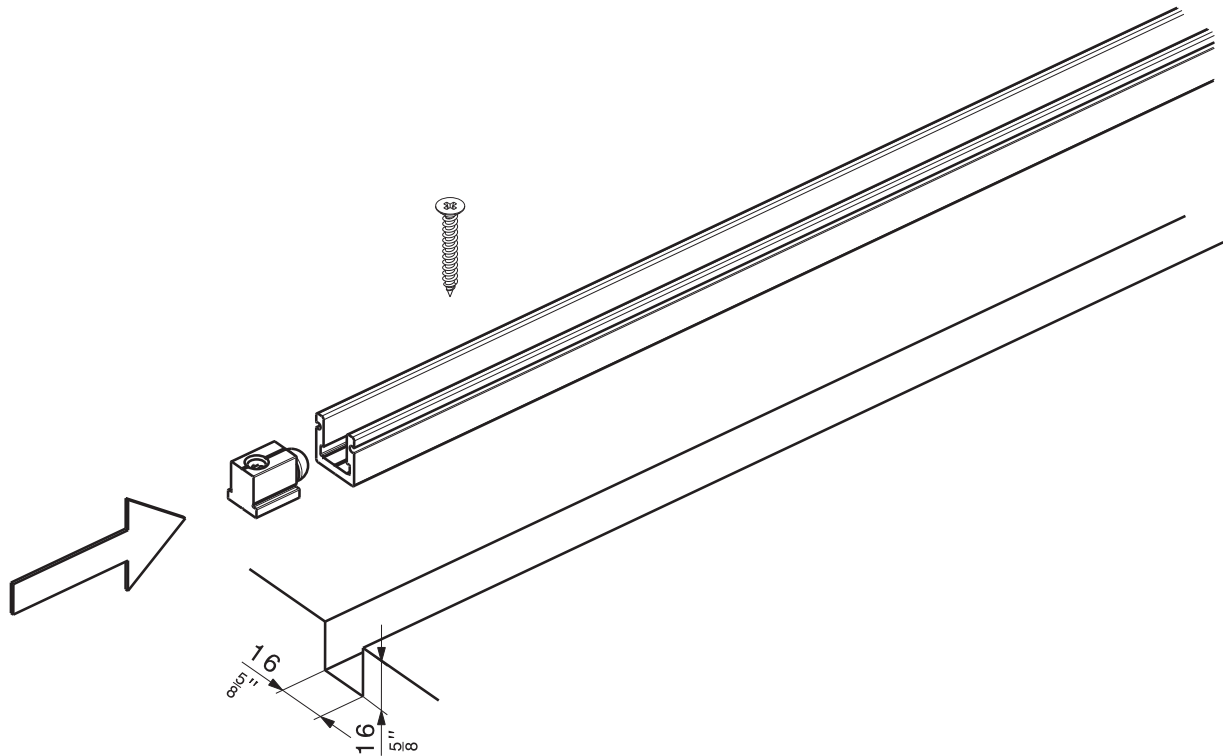
***Position Bolzenriegelschloss mit Führungszapfen***  
***Position de la serrure à pènes avec goujon de guidage***  
***Position of bar bolt lock with guide pin***  
***Posizione serratura a chiavistello con perno di guida***  
***Posición cerradura de pasador con perno de guía***



*Ausfräsungen Schiebetüren*  
*Découpages des portes coulissantes*  
*Cutouts sliding doors*  
*Fresature porte scorrevoli*  
*Fresados paneles deslizantes*



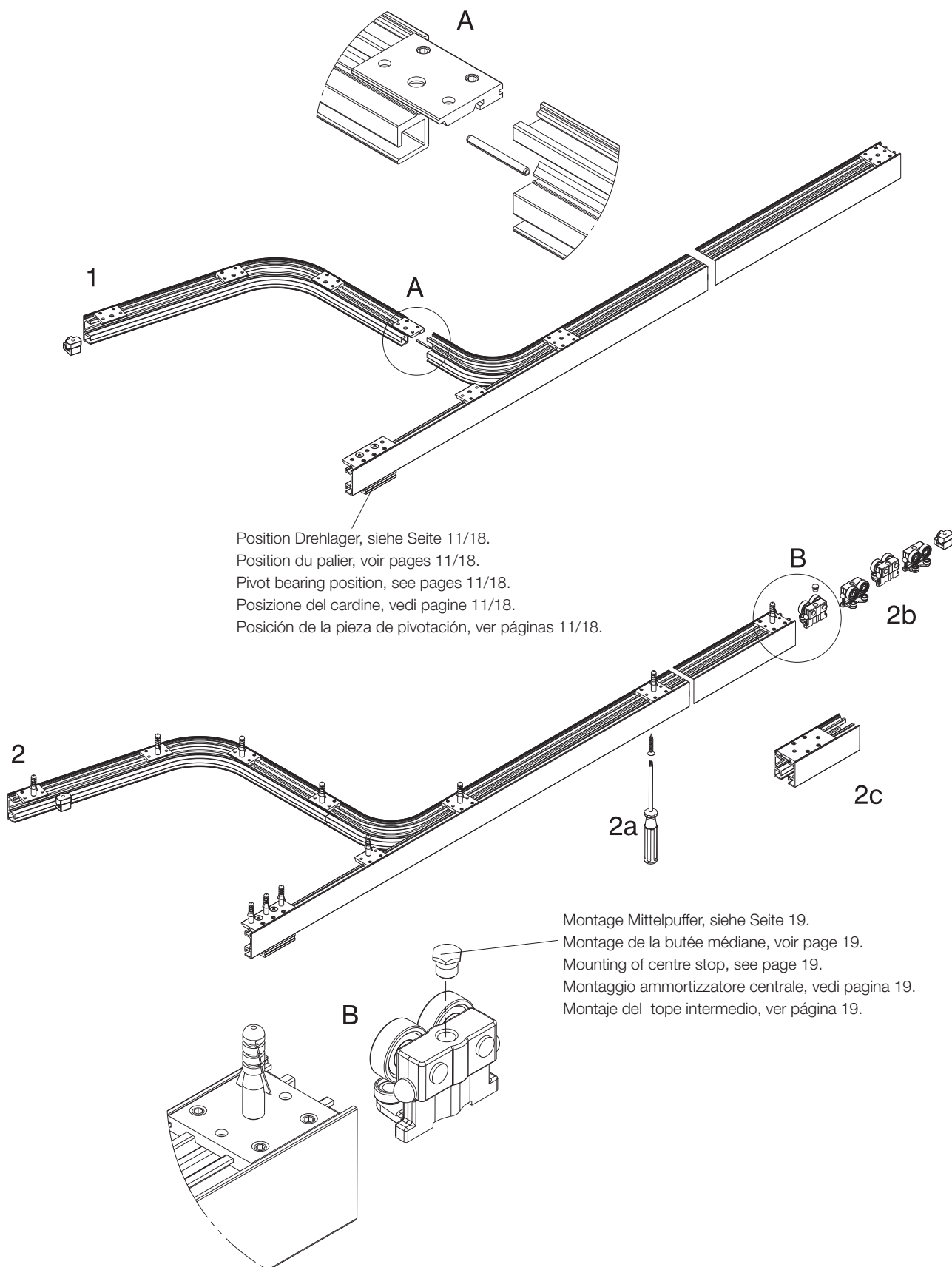
*Montage der Führungsschienen  
Montage des rails de guidage  
Mounting of bottom guide channels  
Montaggio delle guide  
Montaje de los rieles de guía*



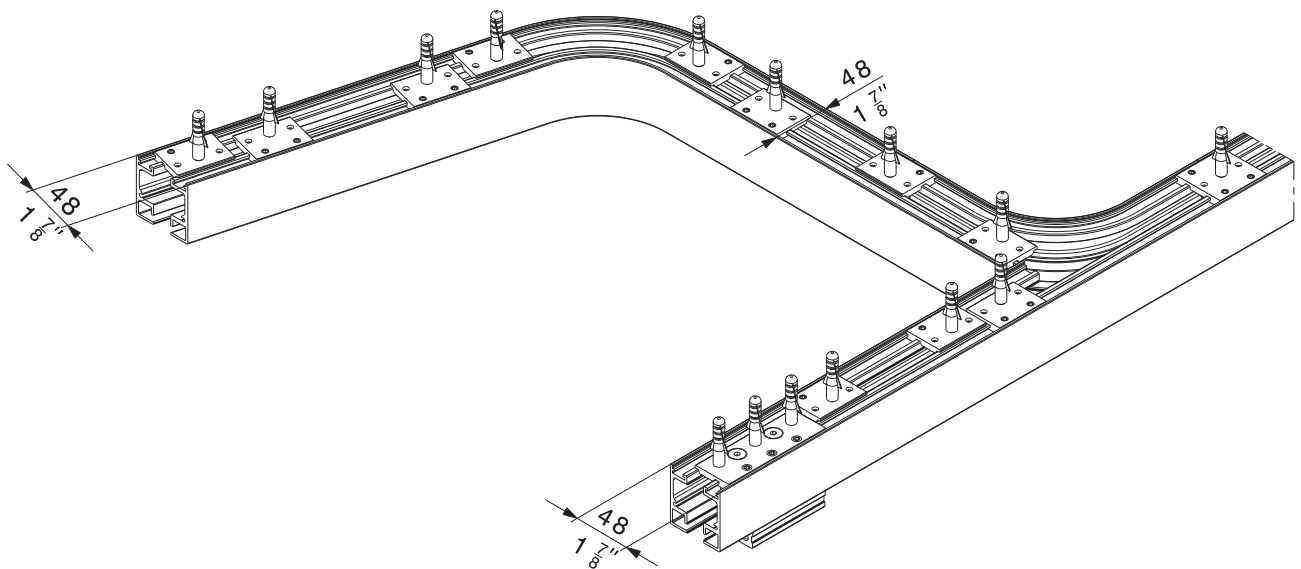
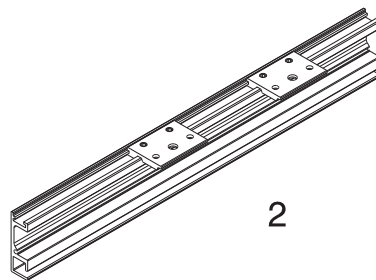
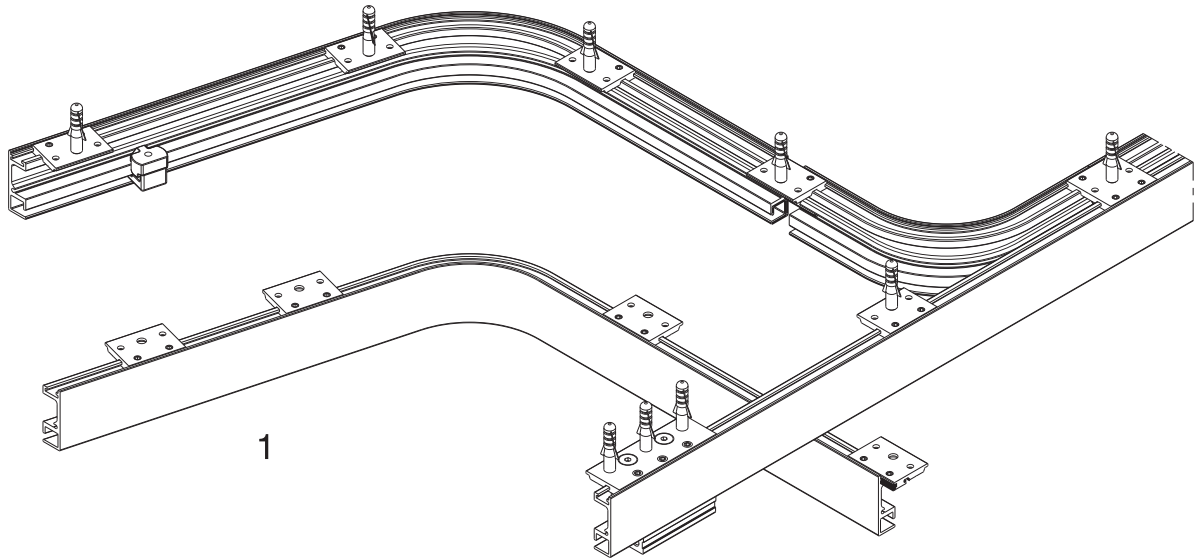
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**Montage der Laufschienen**  
**Montage des rails de roulement**  
**Mounting of top tracks**  
**Montaggio dei binari**  
**Montaje de los rieles de rodadura**



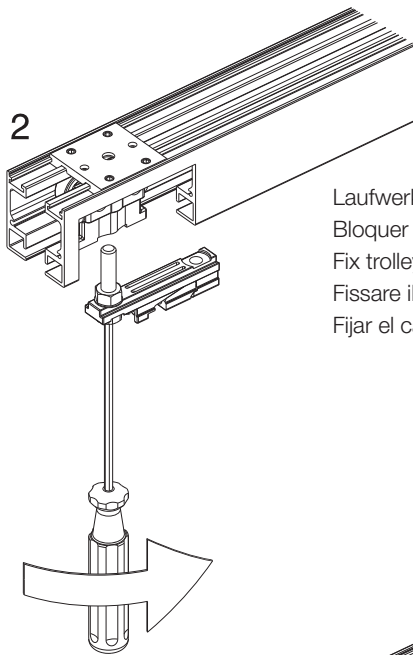
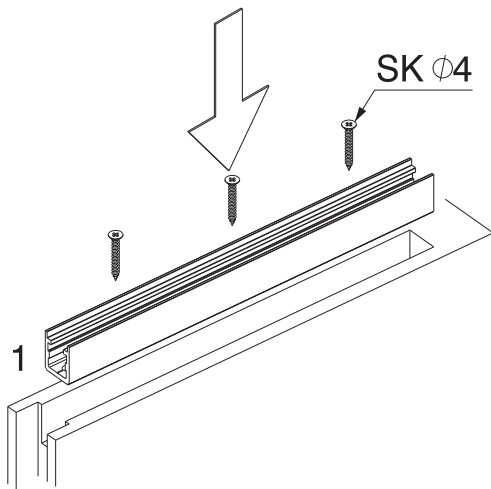
*Montage Stapelraum-Innenverblendung*  
*Montage de cache intérieur pour espace de parcage*  
*Mounting of the stacking area inside covers*  
*Montaggio zona di stipa-rivestimento interno*  
*Montaje del área de apilado con perfil de cobertura a la vista*



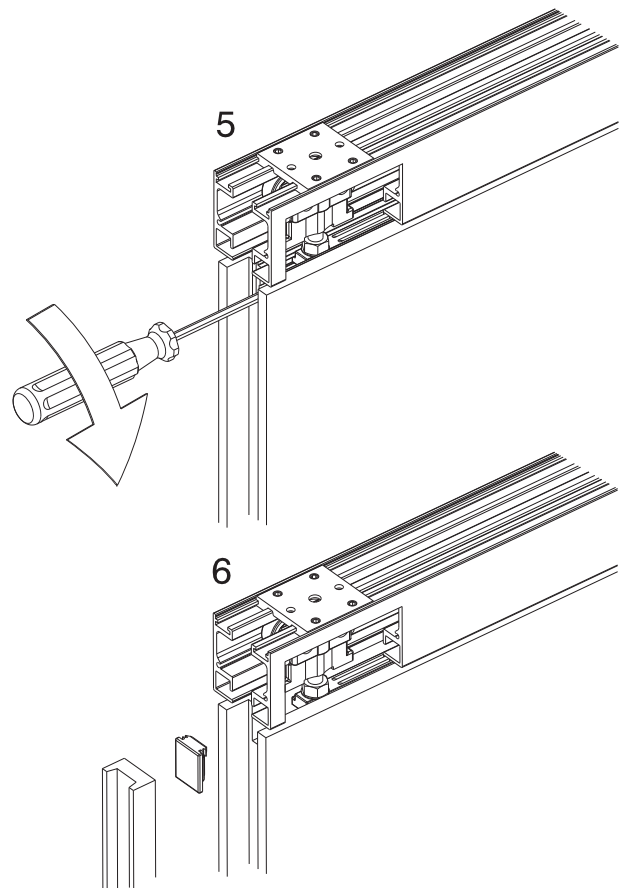
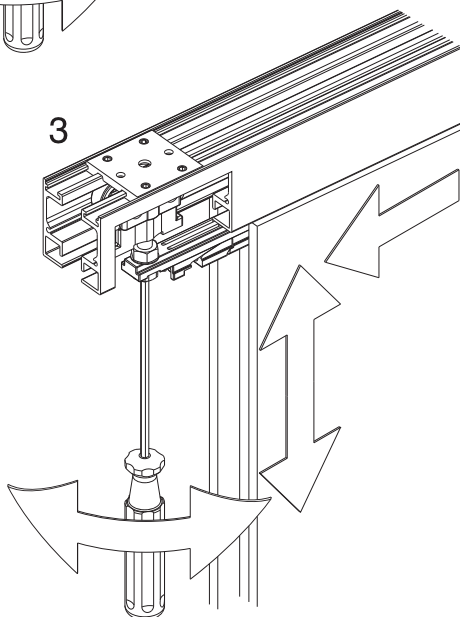
Technische Änderungen vorbehalten  
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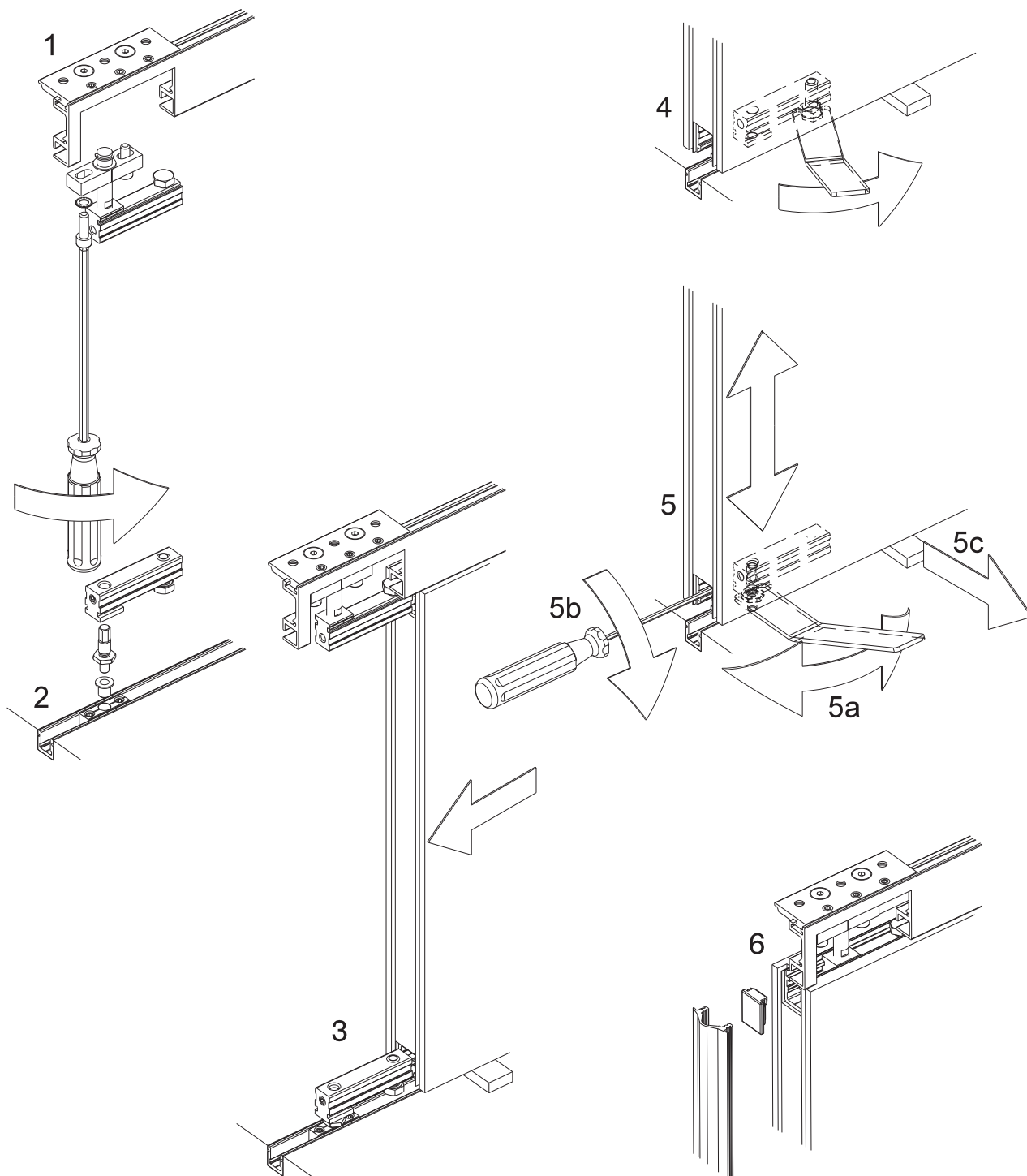
*Montage der Schiebetüre*  
*Montage de la porte coulissante*  
*Mounting of sliding door*  
*Montaggio della porta scorrevole*  
*Montaje del panel deslizante*



Laufwerk und Bodenführung fixieren, wenn sich die Türen im Stapelraum befinden.  
 Bloquer chariot et guide inférieur lorsque les portes se trouvent dans l'espace de parcage.  
 Fix trolley and bottom guide when the doors are in the parking area.  
 Fissare il carrello e la guida sul pavimento, quando le porte si trovano nel parcheggio.  
 Fijar el carro y la guía inferior cuando los paneles se encuentran en el área de apilado.



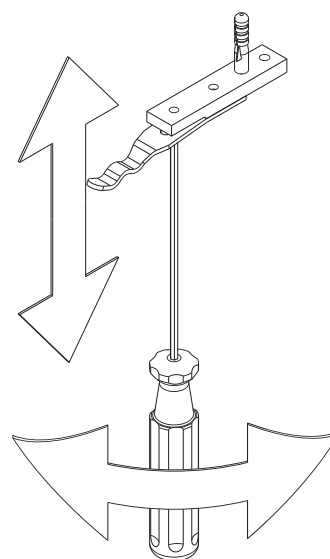
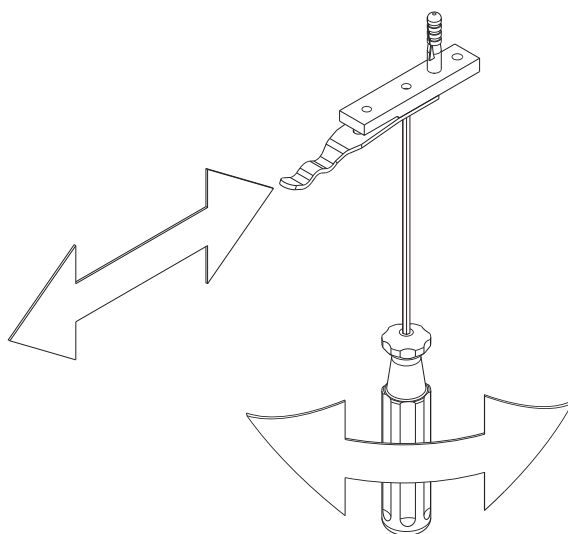
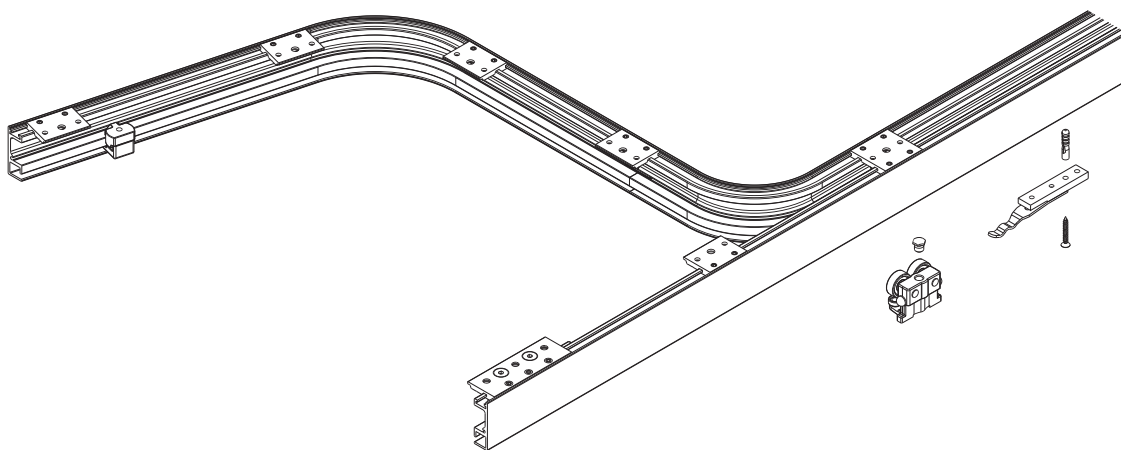
*Montage der Drehtüre*  
*Montage de la porte pivotante*  
*Mounting of pivot door*  
*Montaggio della porta girevole*  
*Montaje de la puerta pivotante*



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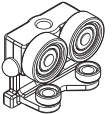
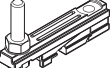
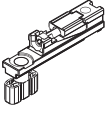
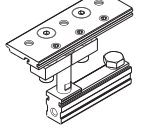
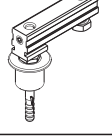
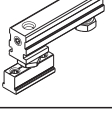
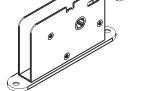
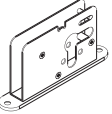
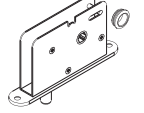
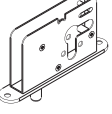
*Montage Mittelpuffer  
Montage de la butée médiane  
Mounting of centre stop  
Montaggio paracolpi centrale  
Montaje del tope intermedio*

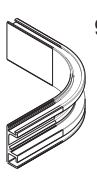
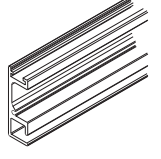


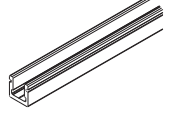
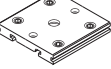
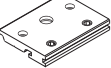
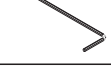
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**Beschlägeübersicht**  
**Composants de la ferrure**  
**Hardware system components**  
**Assortimento ferramenta**  
**Componentes de los herrajes**

|                                                                                     |                                              |       |
|-------------------------------------------------------------------------------------|----------------------------------------------|-------|
|    |                                              | 18708 |
|    |                                              | 18651 |
|    | 250 mm<br>(9 <sup>27</sup> / <sub>32</sub> " | 18252 |
|    |                                              | 21520 |
|    |                                              | 18649 |
|   |                                              | 19142 |
|  |                                              | 18785 |
|  |                                              | 18730 |
|  | 4/6kt<br>7/8 mm                              | 18837 |
|  | PZ 17 mm                                     | 18836 |
|  | 4/6kt<br>7/8 mm<br>FZ                        | 18833 |
|  | PZ 17 mm<br>FZ                               | 18750 |

|                                                                                     |                                                                                  |       |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------|
|    |                                                                                  | 18755 |
|    | 75°<br>580 mm<br>(1'10 <sup>27</sup> / <sub>32</sub> "                           | 17289 |
|    | 75°<br>580 mm<br>(1'10 <sup>27</sup> / <sub>32</sub> "                           | 17290 |
|    | 90°<br>70 mm<br>(2 <sup>3</sup> / <sub>4</sub> "                                 | 16925 |
|  | 2500 mm<br>(8'2 <sup>7</sup> / <sub>16</sub> "                                   | 17795 |
|                                                                                     | 3500 mm<br>(11'5 <sup>13</sup> / <sub>16</sub> "                                 | 17796 |
|                                                                                     | 6000 mm<br>(19'8 <sup>7</sup> / <sub>32</sub> "                                  | 16891 |
|                                                                                     | nach Mass<br>sur mesure<br>cut to size<br>su misura<br>a medida                  | 17529 |
|  | 3 x 30 mm<br>(1 <sup>1</sup> / <sub>8</sub> " x 1 <sup>3</sup> / <sub>16</sub> " | 17221 |
|  | 150 mm<br>(5 <sup>29</sup> / <sub>32</sub> "                                     | 19160 |

|                                                                                       |                                                                                    |       |
|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------|
|    | 500 mm<br>(1'7 <sup>11</sup> / <sub>16</sub> "                                     | 18748 |
|    | 6000 mm<br>(19'8 <sup>7</sup> / <sub>32</sub> "                                    | 18216 |
|                                                                                       | 3500 mm<br>(11'5 <sup>13</sup> / <sub>16</sub> "                                   | 18864 |
|    | 2 x 20 mm<br>( <sup>5</sup> / <sub>64</sub> " x <sup>25</sup> / <sub>32</sub> "    | 18640 |
|    |                                                                                    | 17128 |
|    |                                                                                    | 17749 |
|    |                                                                                    | 19165 |
|   |                                                                                    | 18652 |
|  |                                                                                    | 17283 |
|  | 6-kant<br>4 mm                                                                     | 18751 |
|  | SW 13                                                                              | 19128 |
|  | 4-kant<br>8 mm                                                                     | 10723 |
|  | 35 – 40 mm<br>(1 <sup>3</sup> / <sub>8</sub> " – 1 <sup>19</sup> / <sub>32</sub> " | 13789 |
|                                                                                       | 41 – 57 mm<br>(1 <sup>5</sup> / <sub>8</sub> " – 2 <sup>1</sup> / <sub>4</sub> "   | 19806 |

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