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# Montageanleitung Sektionalgaragentore

L: niedrig mit Torsionsfedern hinten



**BEDEUTUNG**

GEFAHR



HINWEIS



DENKEN SIE DARAN



ZUSÄTZLICHE INFORMATIONEN

**GEFÄHRDUNG**

ELEKTRISCHE GEFÄHRDUNG



BRANDGEFÄHRDUNG

**VERBOT**

RAUCHEN IN DER NÄHE DER ANLAGE VERBOTEN



SICHERHEITSEINRICHTUNGEN NICHT ENTFERNEN

**ANWEISUNGEN**

BEVOR MIT DEN ARBEITEN ODER DER INSTANDSETZUNG BEGONNEN WIRD, SPANNUNG ABSCHALTEN.



MONTAGE UND WARTUNGSARBEITEN NUR MIT ARBEITSHANDSCHUHEN AUSFÜHREN.



MONTAGE UND WARTUNGSARBEITEN NUR MIT SCHUTZSCHUHWERK AUSFÜHREN.

**BESCHREIBUNG, EMPFEHLUNGEN, HINWEISE**

Für den Benutzer bedeutet es eine Unfallgefahr, davon mit tödlichem Ausgang.

Ein Hinweis, wie dem Verschleiß des Produktes vorzubeugen ist.

Funktionen von Schlüsselbedeutung oder nützliche Informationen.

Den mit diesem Symbol versehenen Hinweisen ist die größte Aufmerksamkeit zu schenken.

Zusätzliche Informationen.

### Allgemeine Montageempfehlungen

1. Die Montage hat durch ein geschultes Montageteam mit entsprechenden Qualifikationen zu erfolgen.
2. Es sind die geltenden Arbeitsschutzvorschriften zu beachten. Im Besonderen ist auf die Sicherheit bei den Arbeiten mit elektrischen Geräten und auf die Sicherheit bei den Arbeiten in der Höhe zu achten.
3. Die Montagezone soll entsprechend gekennzeichnet und gesichert sein.
4. Der Montageuntergrund solch durch folgende Merkmale gekennzeichnet sein:
  - im Falle von Mauern – eine nach den geltenden Bauvorschriften hergestellte trockene und ebene Oberfläche mit entsprechender Festigkeit,
  - im Falle von Metallkonstruktionen – mangelfreie Konstruktion und Festigkeit.
5. Für die Montage sind je nach dem Untergrund einzusetzen:
  - im Falle eines Untergrundes aus Stahlbeton oder Vollziegeln – Spreizdübel von  $\varnothing 12$  mm x 80 mm (für die Wellenaufleger), Spreizdübel von  $\varnothing 10$  mm x 60 mm (für die Montage der Führungen),
  - im Falle von Stahlkonstruktionen – Schrauben M8 (für die Wellenaufleger), Schrauben M6 (für die Führungen) oder selbstbohrende Schrauben von  $\varnothing 6,3$  mm (die Wände der Stahlkonstruktion sollen eine Stärke von mindestens 3 mm haben)
  - im Falle von Wänden aus Baustoffen mit Hohlräumen – entsprechende Montagesysteme, die für derartigen Untergrund vorgesehen sind,
  - im Falle von sonstigen Baustoffen (Lochziegel, Porenbeton, etc.) – Spreizdübel für Lochziegel und Porenbeton z.B. vom Typ Fischer SX
6. Besondere Aufmerksamkeit ist bei der Montage von Federn erforderlich (es treten sehr große Torsionskräfte auf).
7. Es sind die den einzelnen Montageschritten zugeschriebenen Hinweis- und Warnzeichen zu beachten.
8. Nach erfolgter Montage, Prüfung und ggf. Korrektur der Einstellungen des Tores bzw. Gitters ist eine Schulung für den Benutzer im Bereich der Bedienung des Produktes durchzuführen.
9. Es ist eine entsprechende Lüftung der Räume, in denen die Tore bzw. Gitter montiert sind, sicherzustellen. Anderenfalls ist das Tor durch Korrosion bedroht.
10. Das Tor bzw. Gitter ist entsprechend gegen aggressive Stoffe zu schützen, die Korrosion bewirken (und z.B. in den Ziegeln oder im Mörtel enthalten sind).

### Montagewerkzeuge:

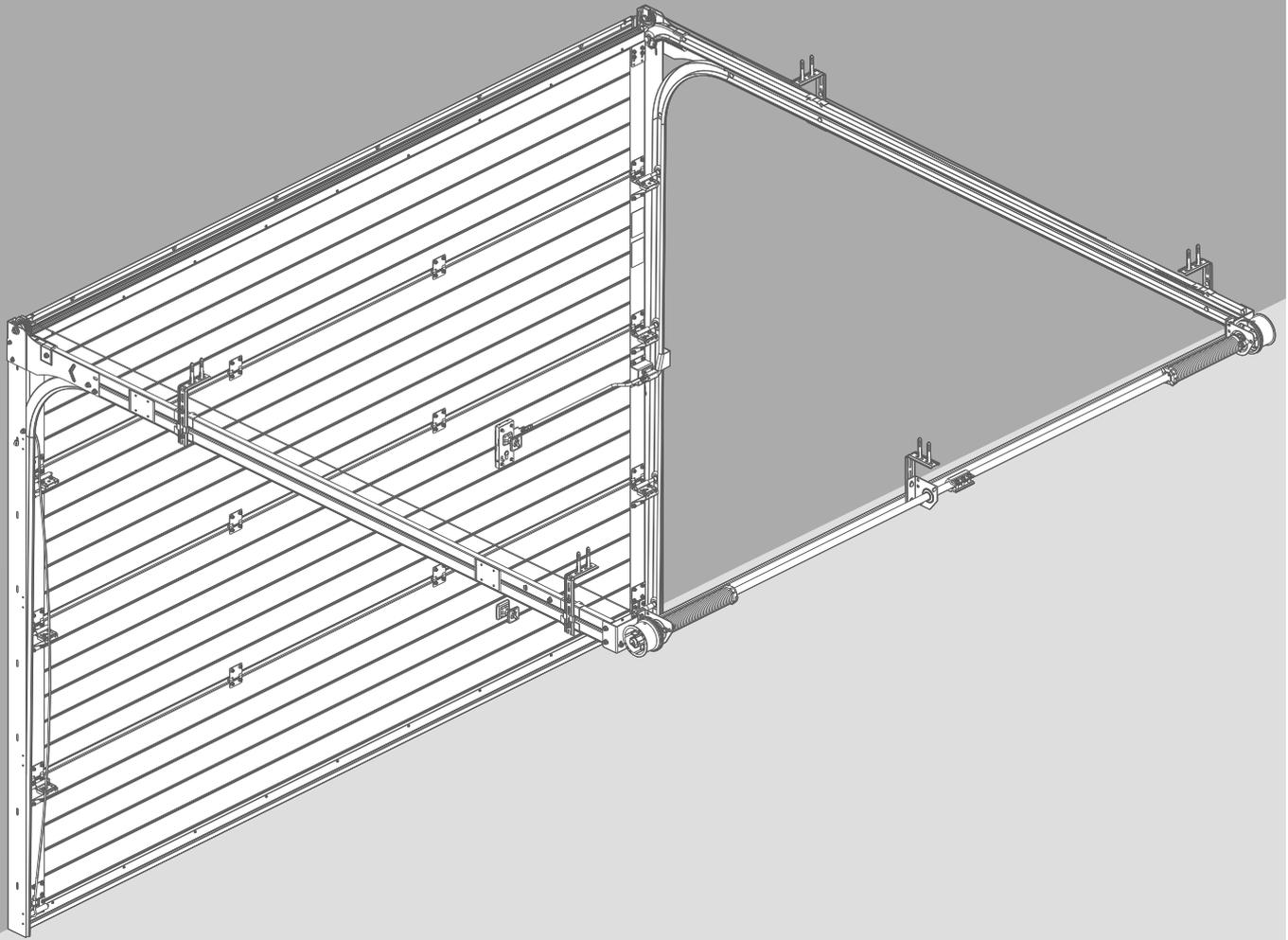
- eine Schlagbohrmaschine
- eine Metallbohrmaschine
- ein Schrauber mit einstellbarer Eindrehkraft
- ein Winkelschleifer / eine Metallsäge
- Stahlstangen von  $\varnothing 16$  mm (zum Aufspannen der Federn)
- Metallbohrer von  $\varnothing 5,0$  mm,  $\varnothing 6,5$  mm
- Betonbohrer von  $\varnothing 10$  mm und  $\varnothing 12$  mm
- Schlüssel mit folgenden Schlüsselweiten: 10; 13; 14; 15; 17
- Innensechskantschlüssel 4 mm; 5 mm; 6 mm
- eine entsprechende Leiter/Gerüst
- ein Hammer
- ein Maß
- ein Bleistift
- eine Wasserwaage

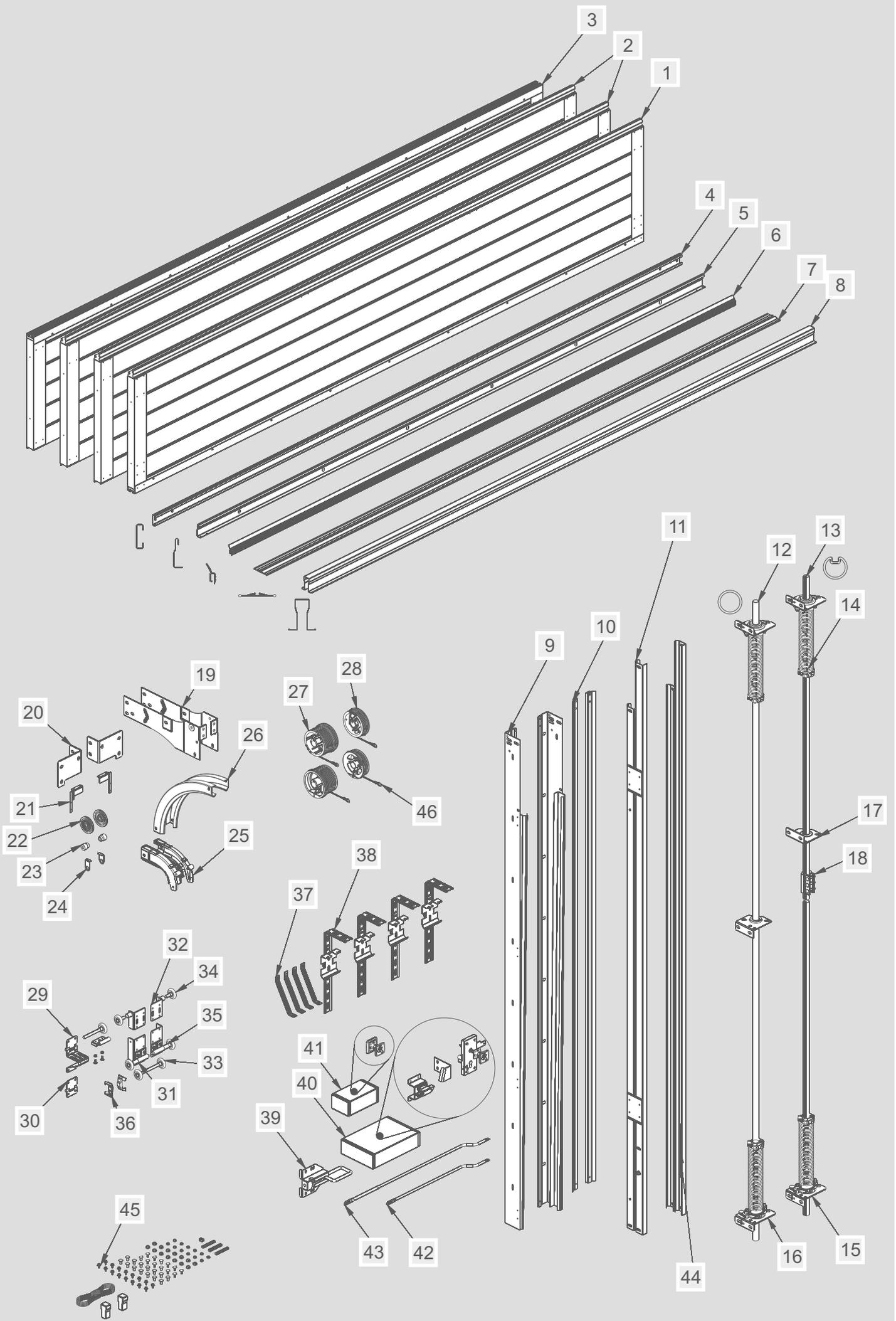
Mittel zur Sauberhaltung  
Handfeger, Handschaufel, Staubsauger

### HINWEIS

Das Produkt kann erst benutzt werden, nachdem der Montagevorgang vollständig abgeschlossen ist!  
Der Montageort ist in Sauberkeit zu halten und nach abgeschlossener Montage sorgfältig in Ordnung zu bringen.

# ST42 TL





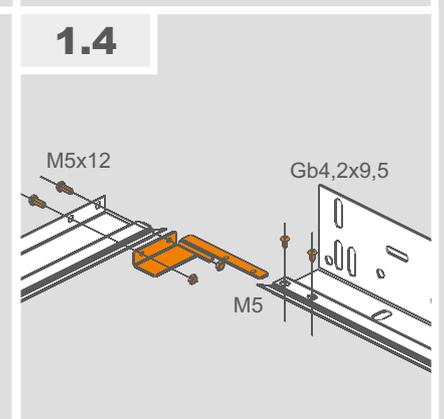
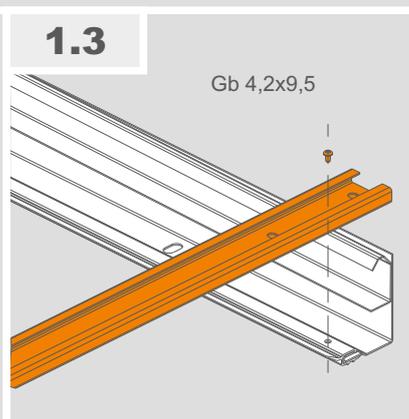
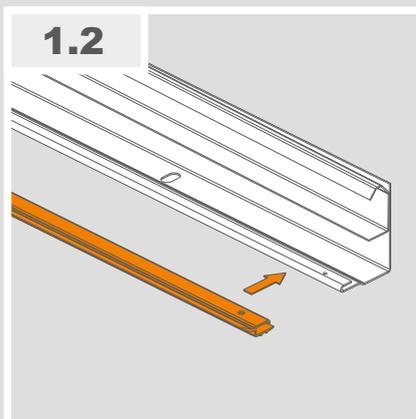
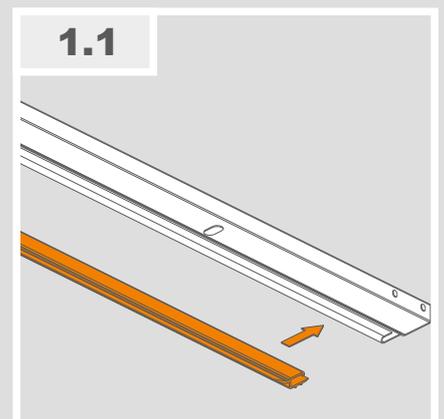
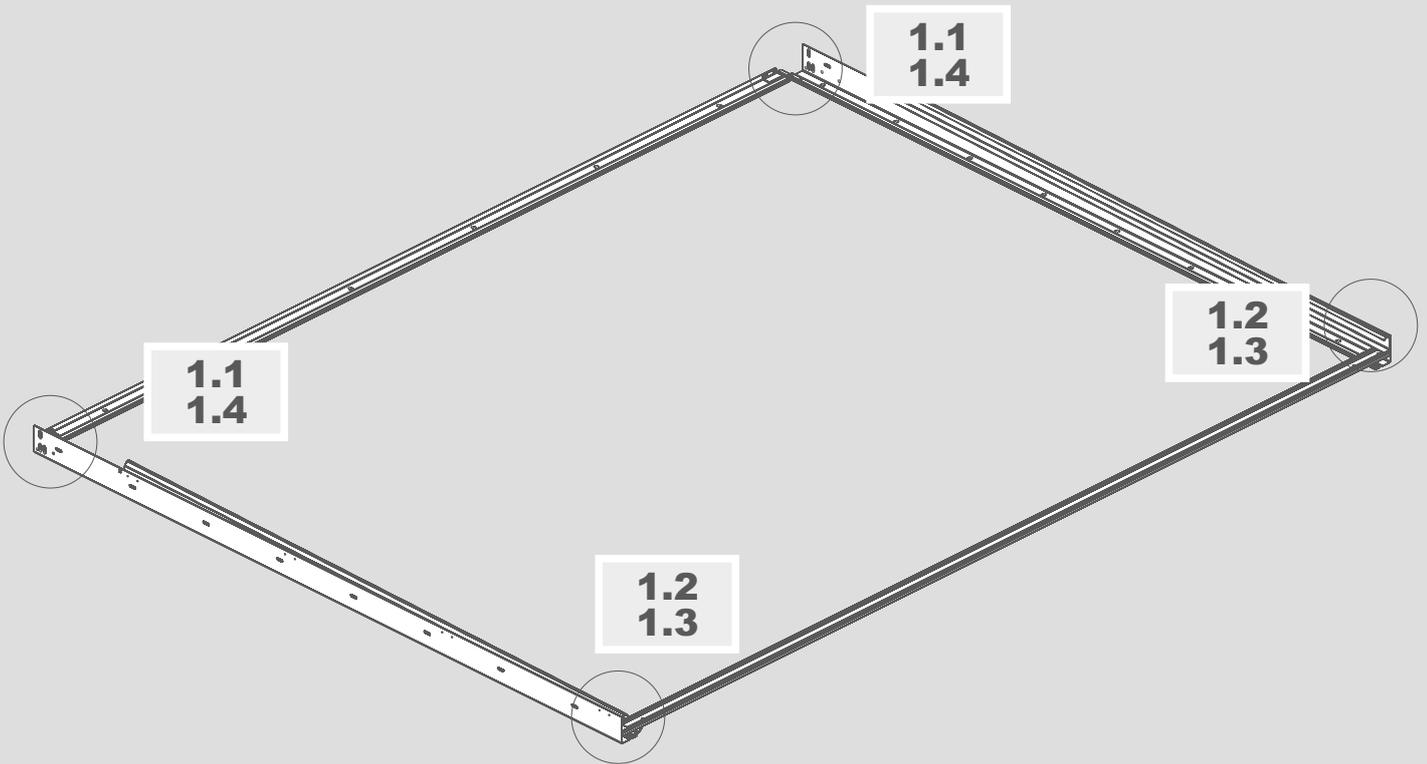
**LISTE DER ELEMENTE**

- 1 – untere Sektion mit Aufnahmeprofil
- 2 – mittlere Sektion
- 3 – obere Sektion mit Aufnahmeprofil
- 4 – Montagequerleiste
- 5 – Sturzleiste
- 6 – obere Dichtung (für Sturzleiste)
- 7 – untere Dichtung (für untere Sektion)
- 8\* – Verstärkungsprofil Omega B>4750
- 9 – senkrechte Winkeleisen mit senkrechten Führungen
- 10 – seitliche Dichtungen (für senkrechte Winkeleisen)
- 11 – waagerechte Führungen
- 12 – Hohlwelle
- 13 – Hohlwelle mit Rille
- 14 – Torsionsfeder
- 15 – Federbruchsicherung für Hohlwelle mit Rille (Paar)
- 16 – Federbruchsicherung für Hohlwelle (Paar)
- 17 – Seitliche Stütze 67
- 18 – Wellenverbinder
- 19 – seitliche Konsole (Paar)
- 20 – hintere Konsole (Paar)
- 21 – Verbinder für Winkeleisen (Paar)
- 22 – Zwischenrolle für Seil
- 23 – Distanzhülse für Zwischenrolle
- 24 – Zwischenrollenhalter
- 25 – oberer Bogen aus Kunststoff (Paar)
- 26 – unterer Stahlbogen (Paar)
- 27 – Trommel NL-12 (Paar)

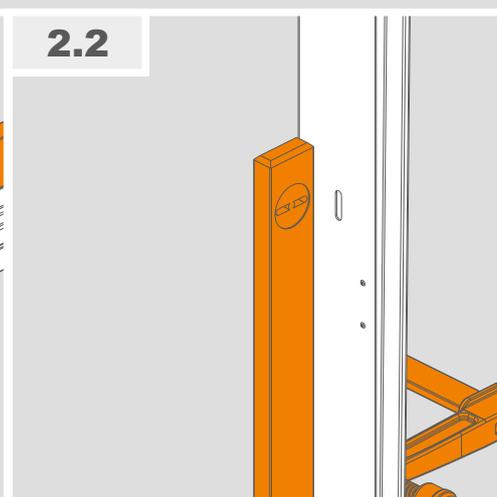
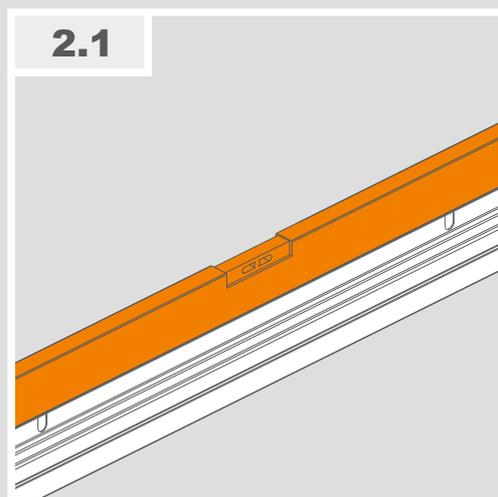
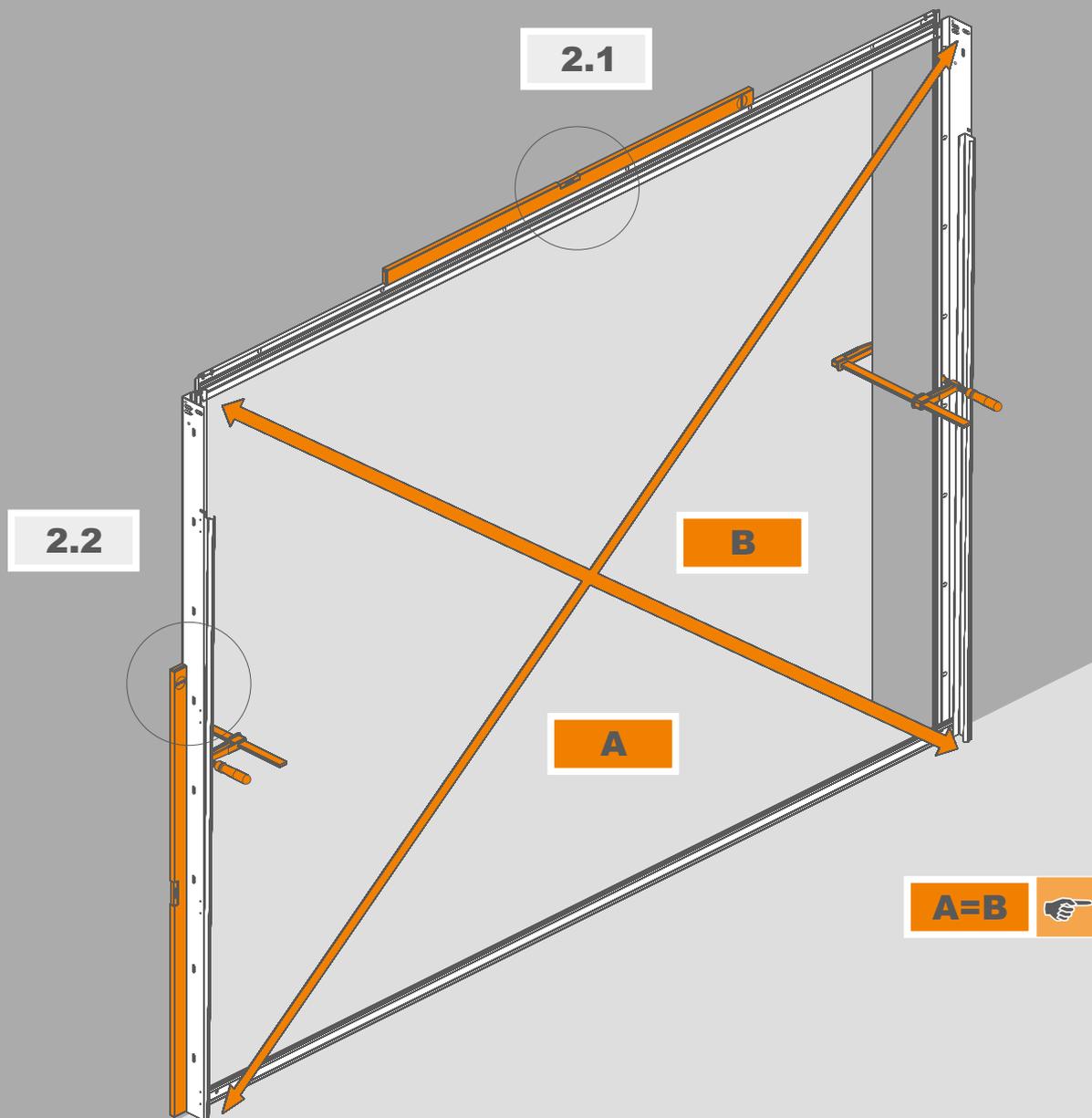
- 28 – Trommel 05NL8E (Paar)
- 29 – seitliches Scharnier mit Halterung
- 30 – mittleres Scharnier
- 31 – unteres Scharnier (Paar)
- 32 – oberes Scharnier (Paar)
- 33 – Laufrolle, lang
- 34 – Laufrolle, kurz
- 35 – Distanzhülse für untere Laufrolle
- 36\* – Laufrollenschutz
- 37\* – Verstärkung für Montagesatz
- 38 – Montagesatz
- 39 – Sperrriegel
- 40\* – Zylinderschloss
- 41 – Griff
- 42 – Standard-Zugstange für Schloss
- 43\* – Teleskop-Zugstange für Schloss
- 44 – Kunststoffbremse
- 45 – Mutterschrauben, Schaftschrauben, Schraubenmutter, Wellenkeile, Verkleidungen und Clips für Verstärkungsprofile\*, Seil für die Handbedienung
- 46 – Stahlseile (Paar)

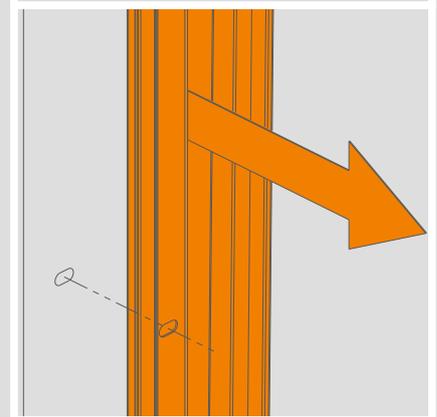
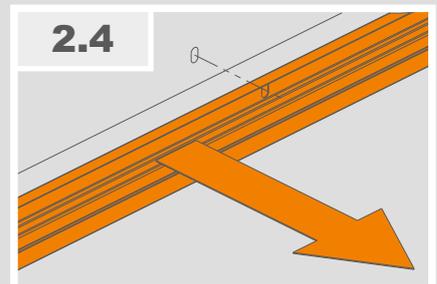
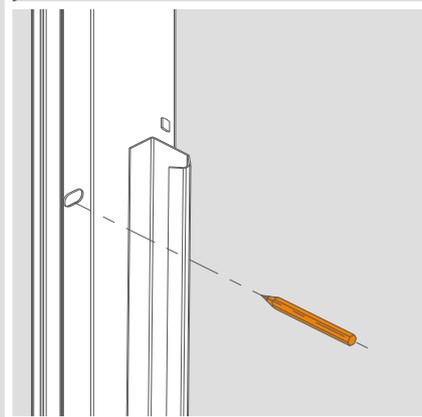
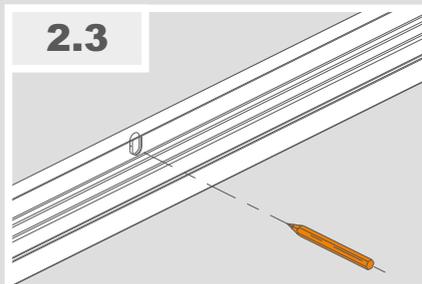
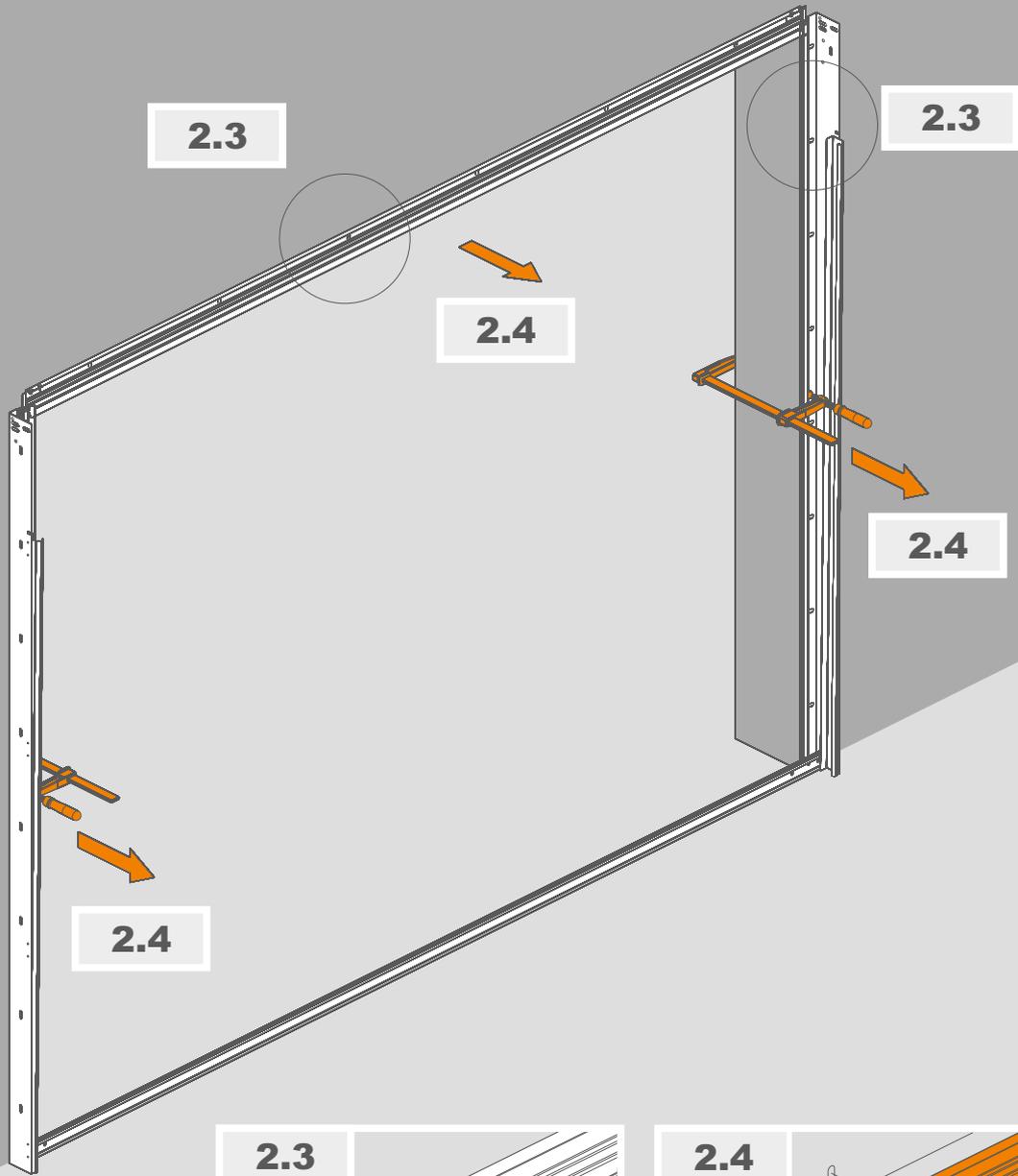
\* - optionale Elemente

# 1



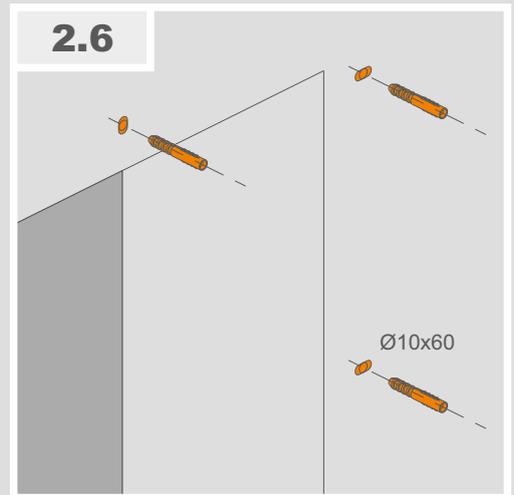
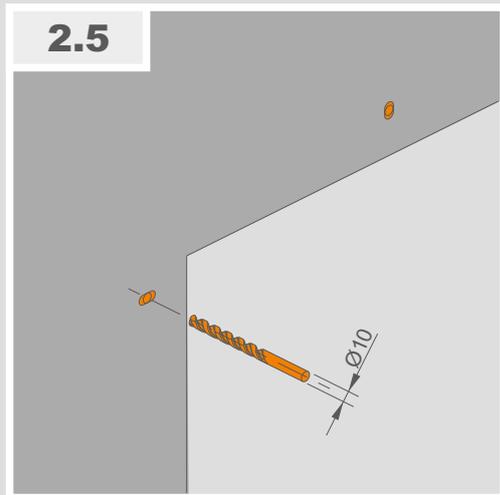
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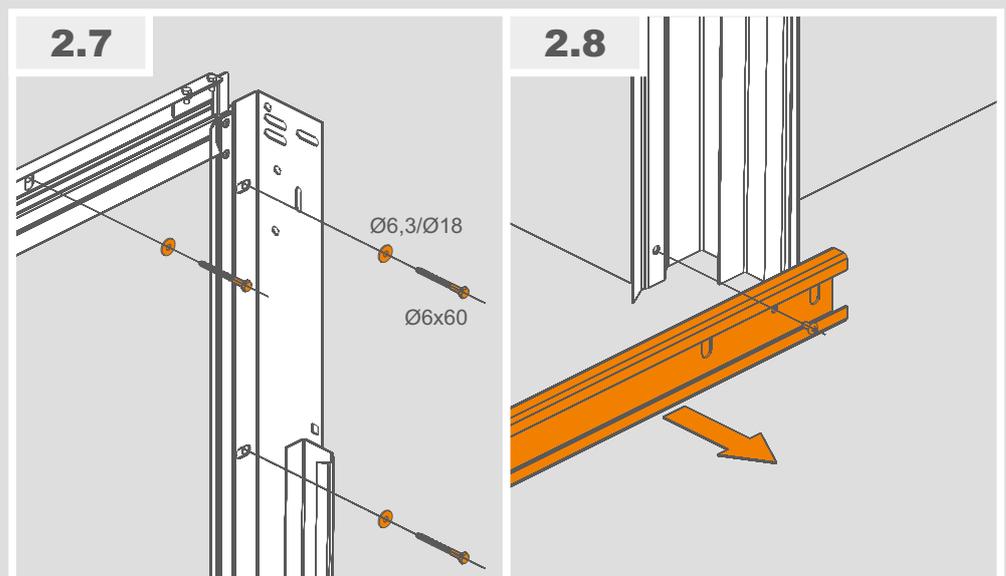
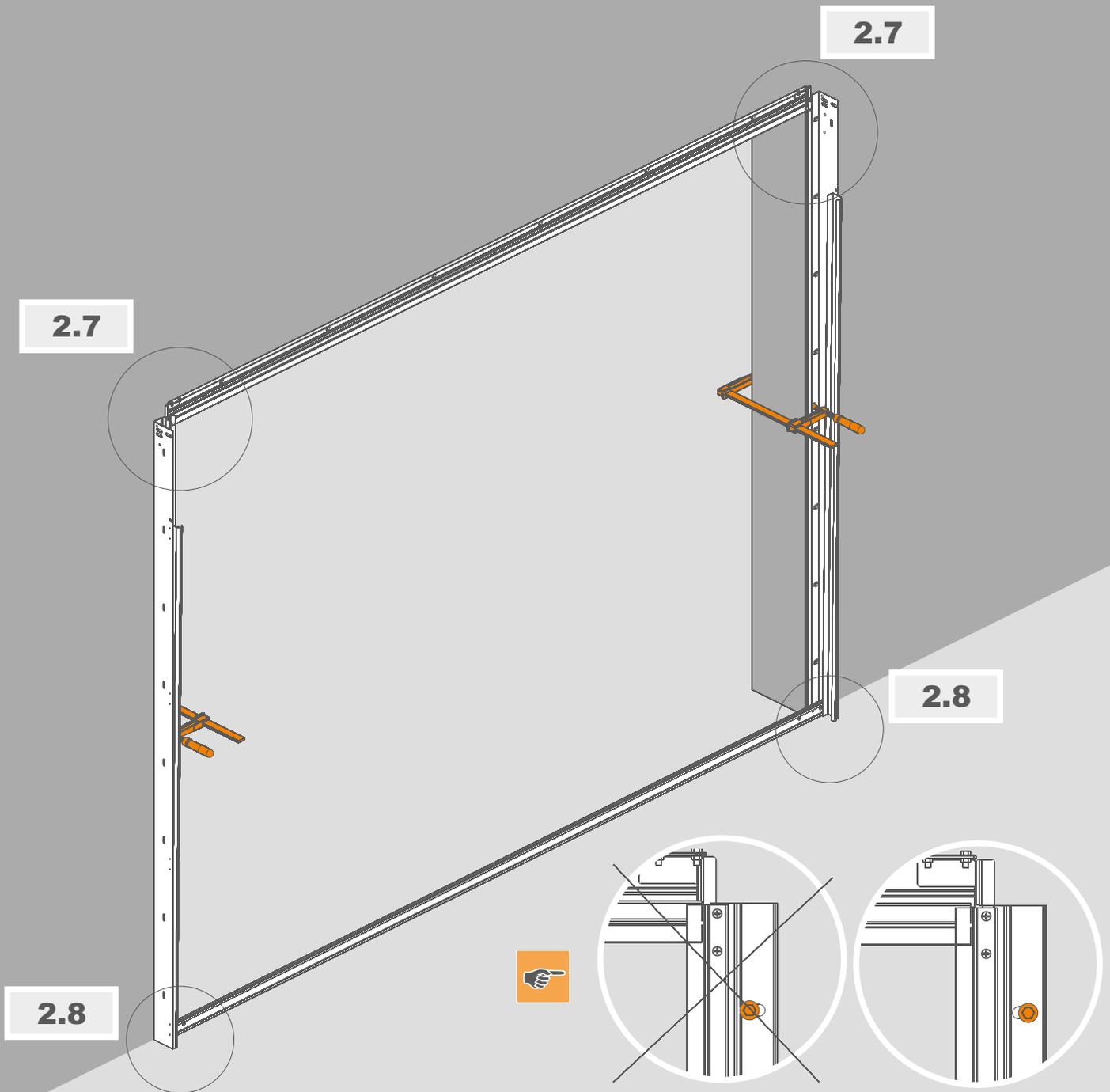


# 2

2.5  
2.6



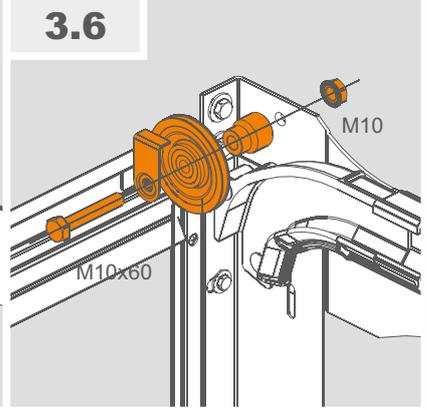
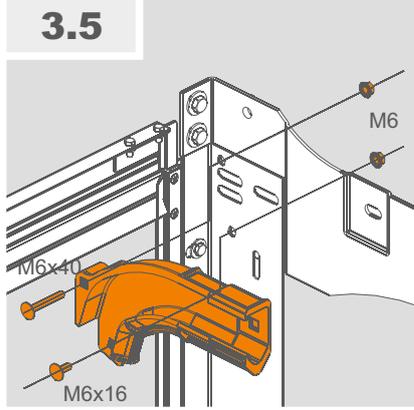
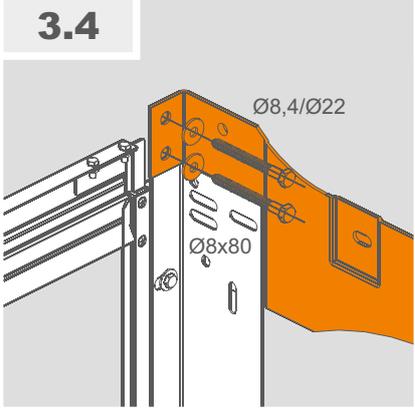
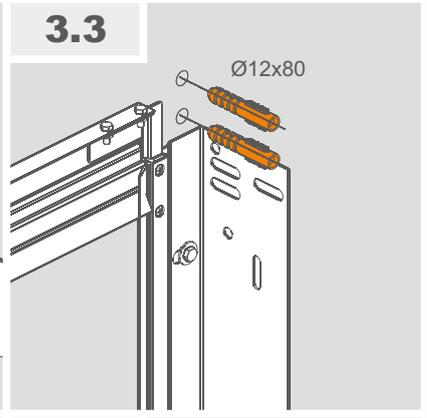
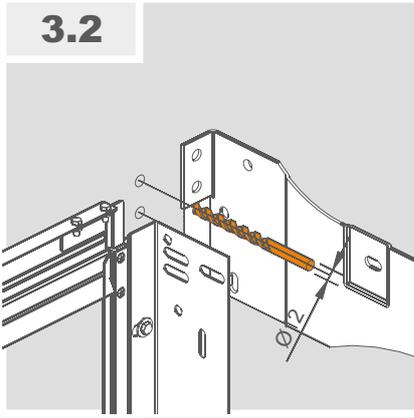
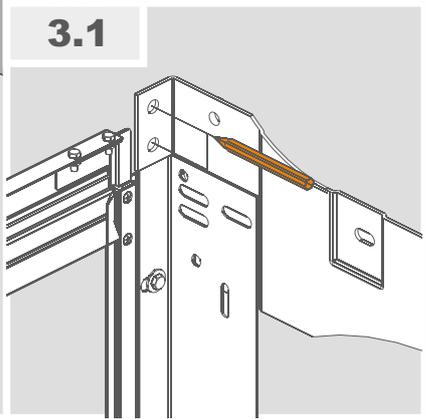
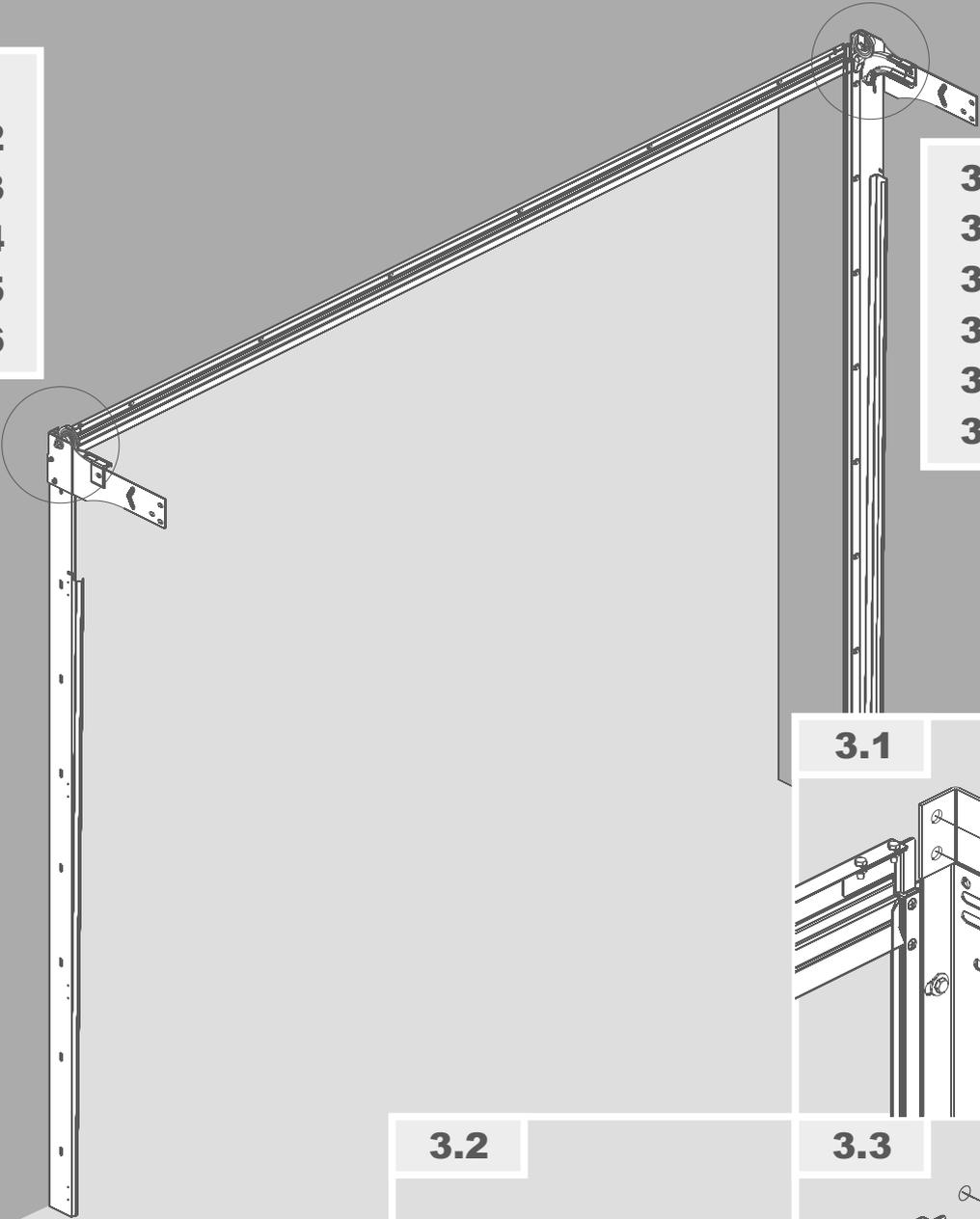
# 2



# 3

- 3.1
- 3.2
- 3.3
- 3.4
- 3.5
- 3.6

- 3.1
- 3.2
- 3.3
- 3.4
- 3.5
- 3.6



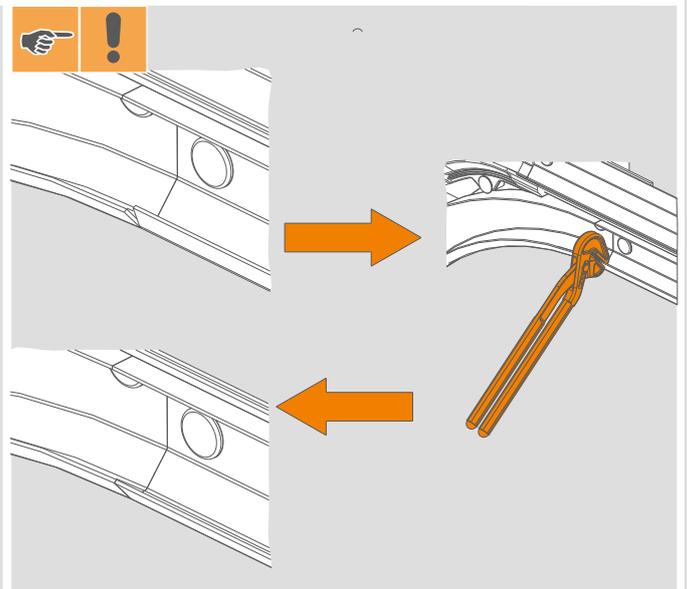
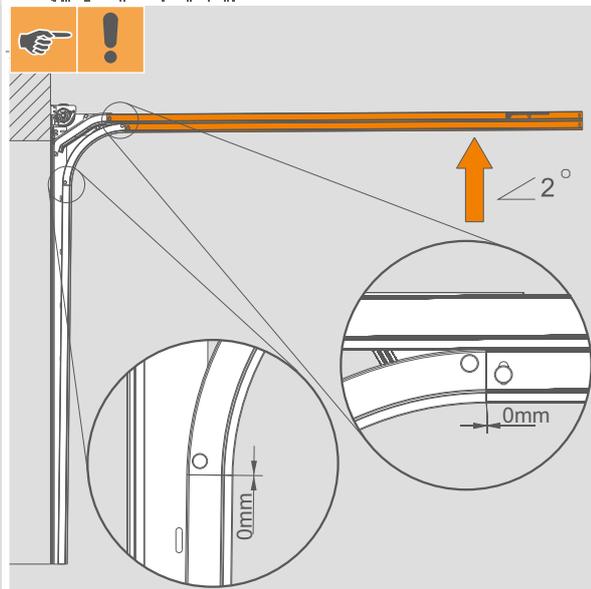
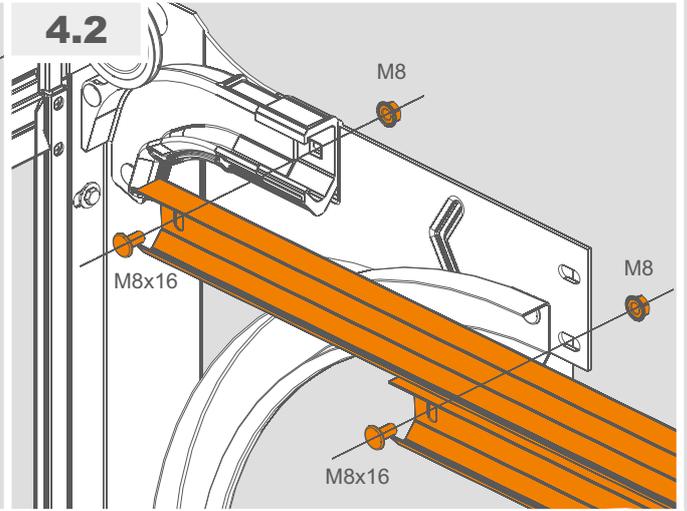
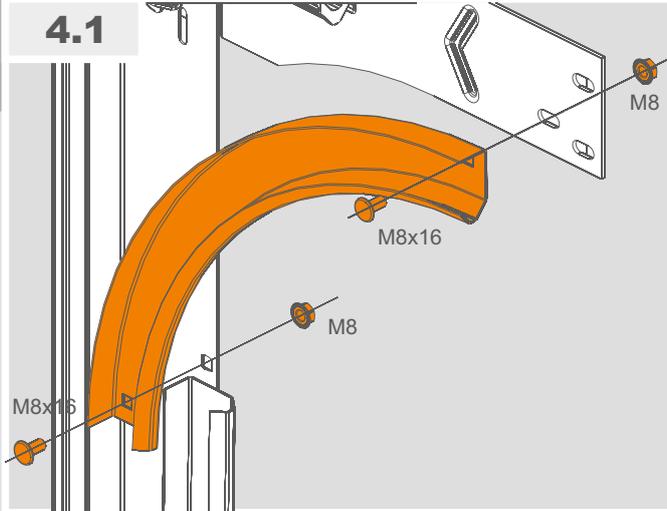
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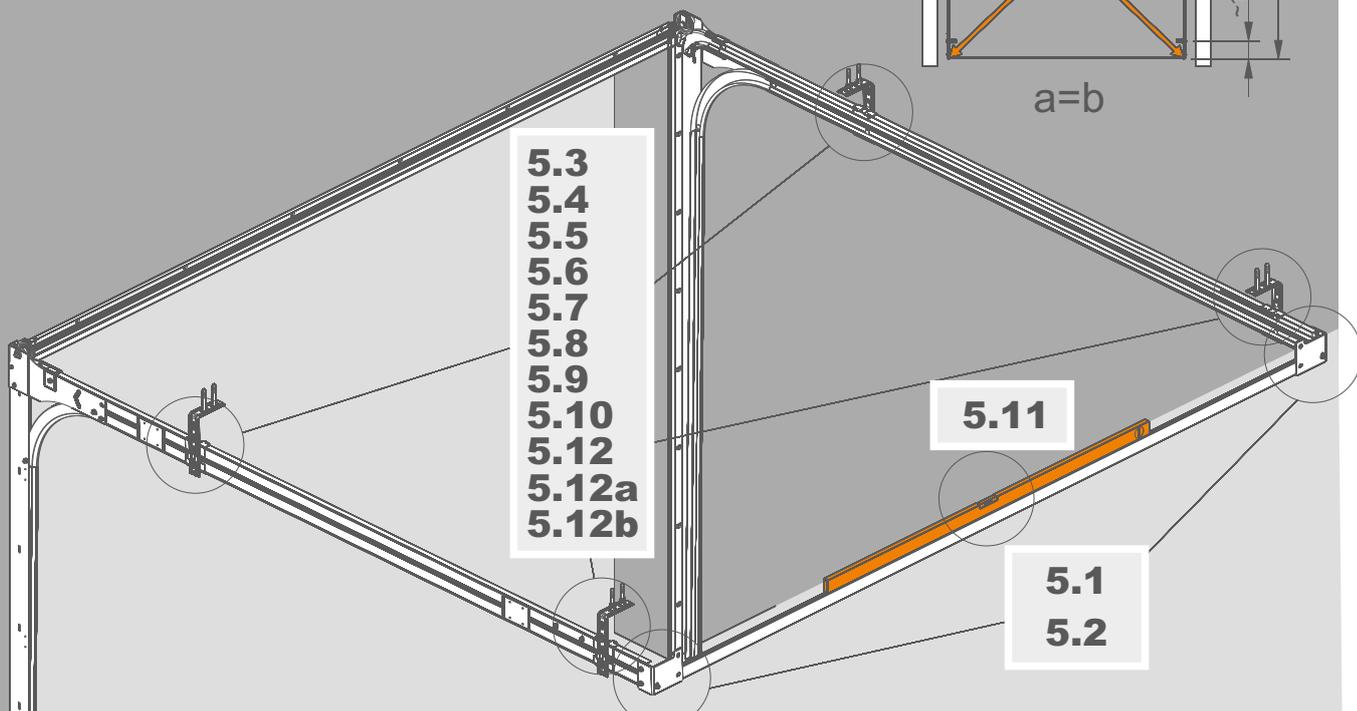
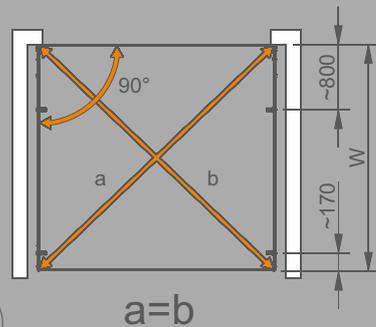
4.1

4.2

4.1

4.2

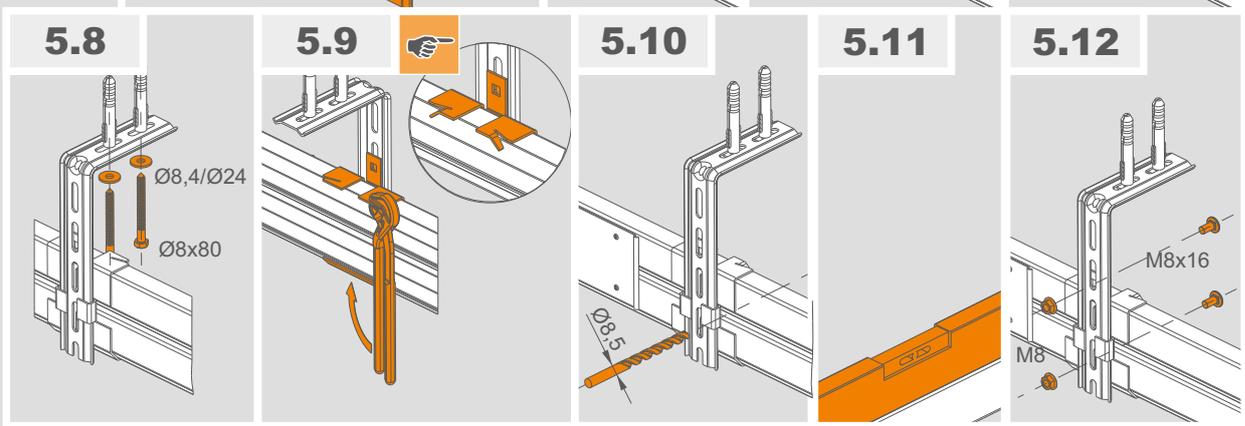
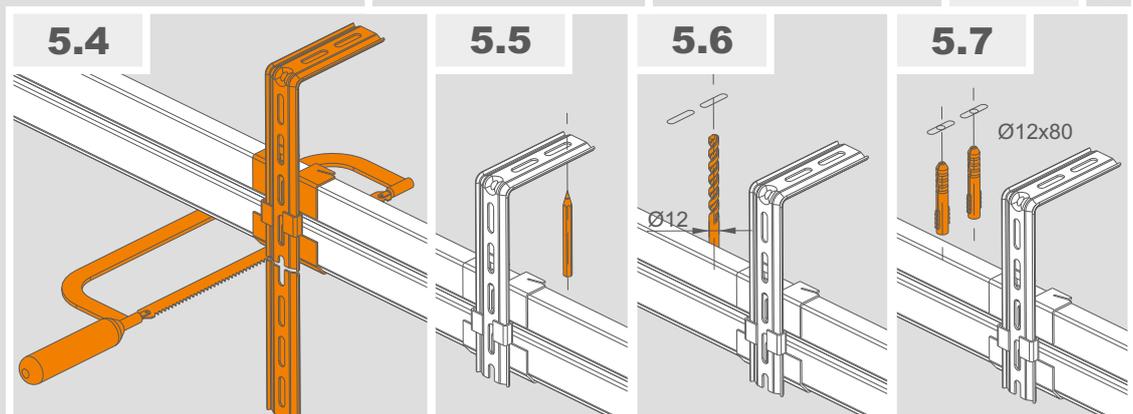
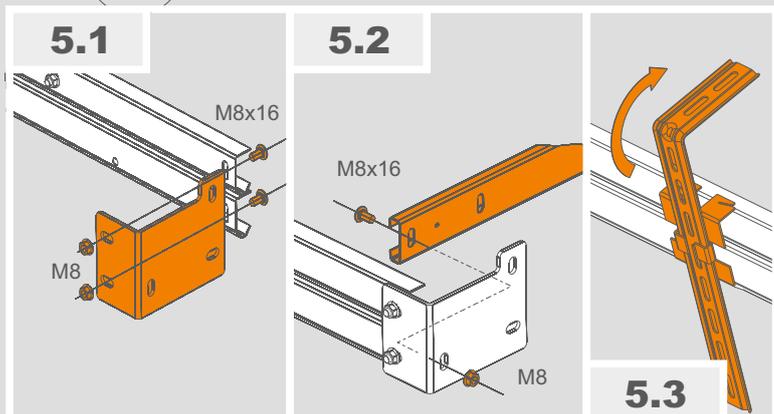




- 5.3
- 5.4
- 5.5
- 5.6
- 5.7
- 5.8
- 5.9
- 5.10
- 5.12
- 5.12a
- 5.12b

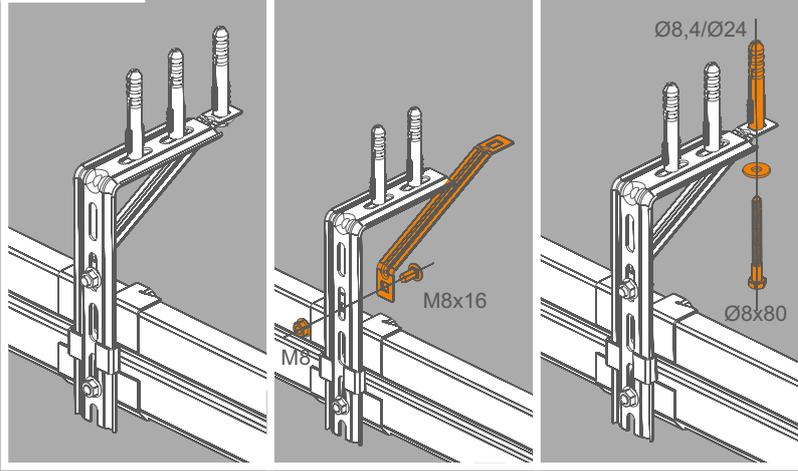
5.11

5.1  
5.2

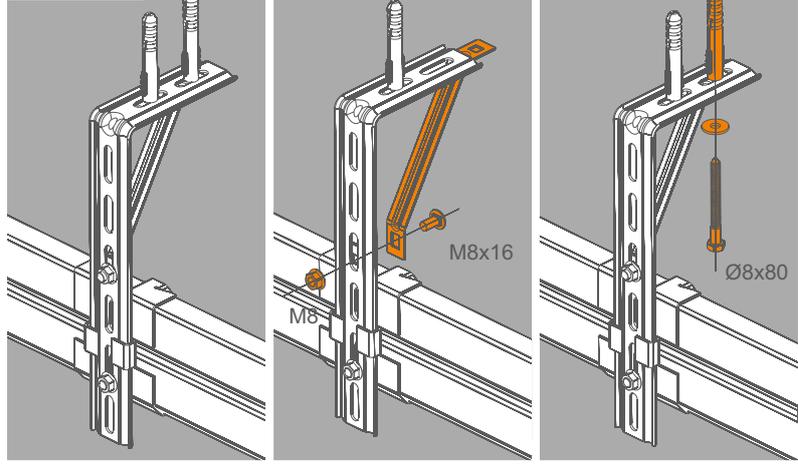


5 i

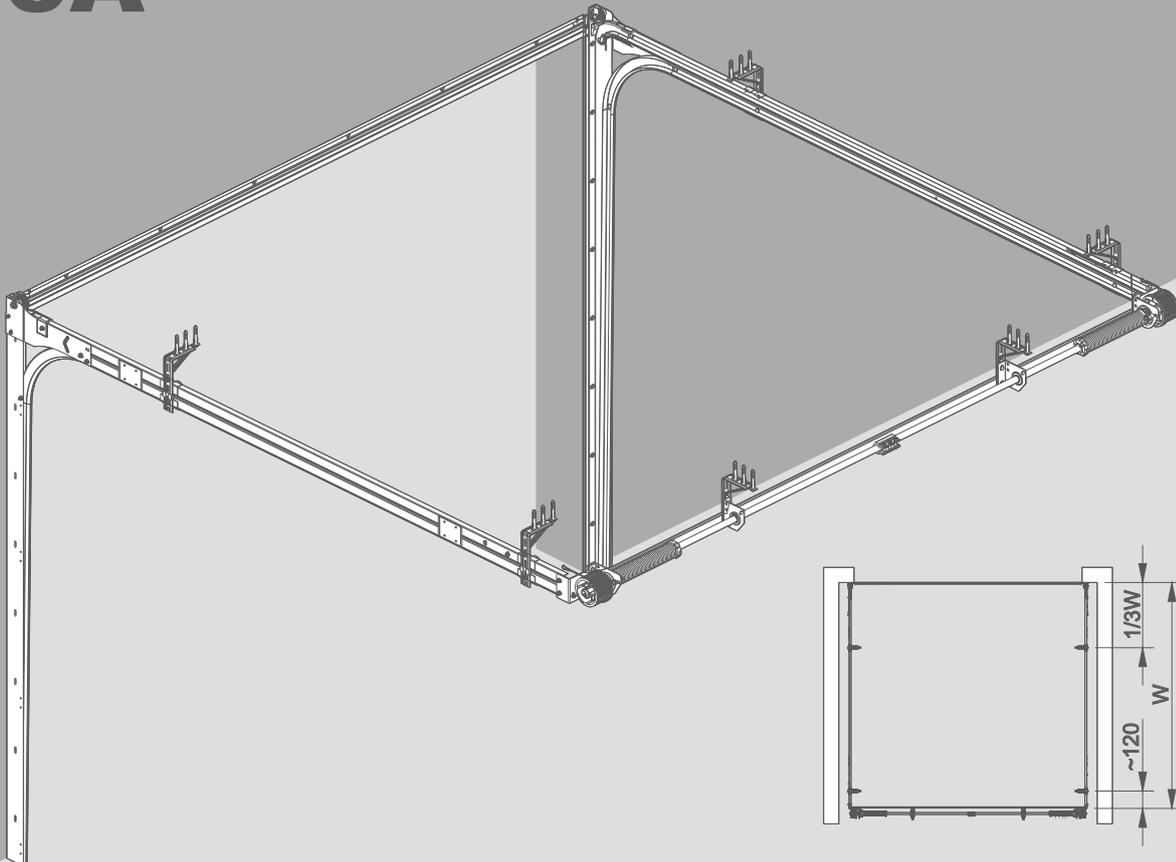
5.12a



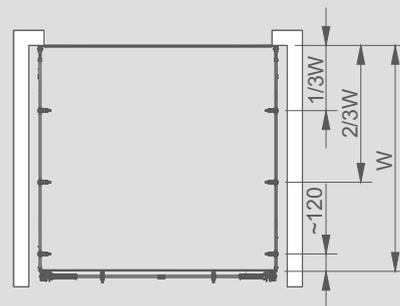
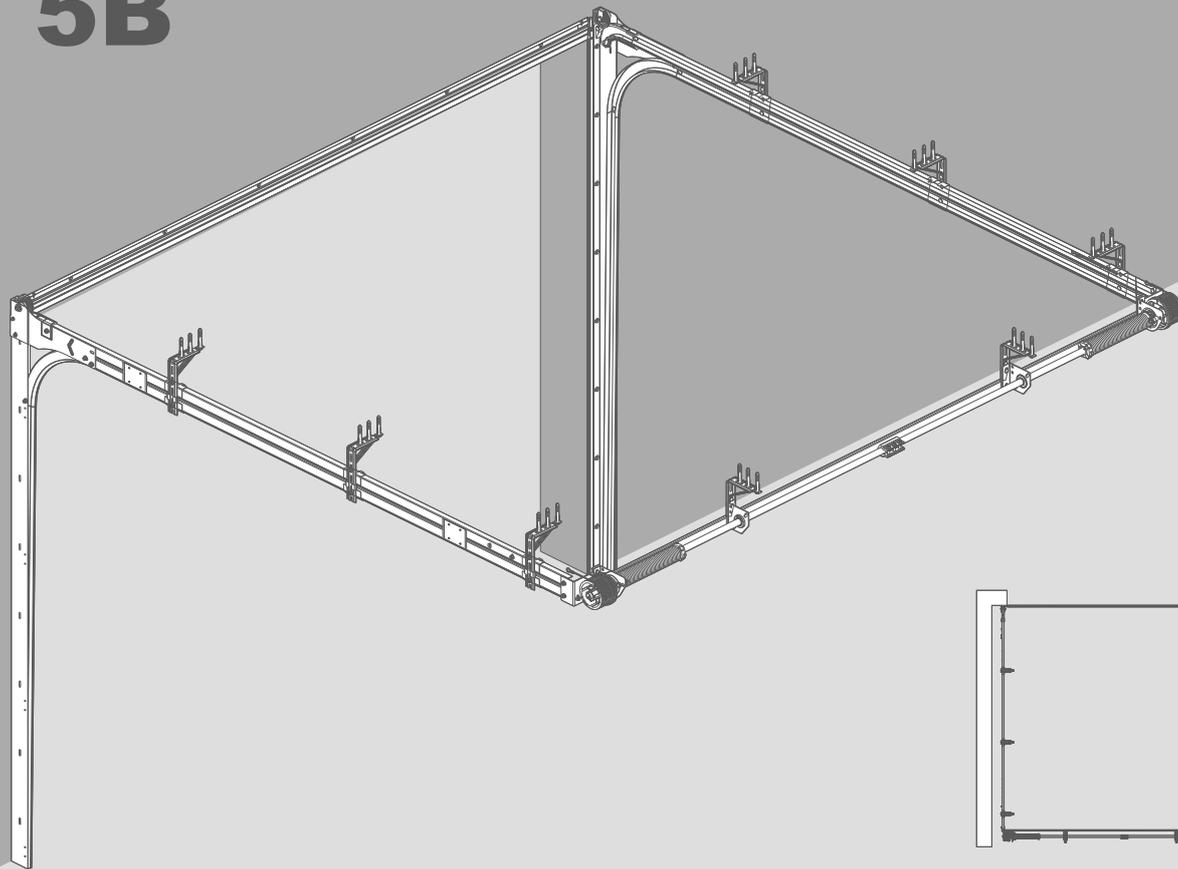
5.12b



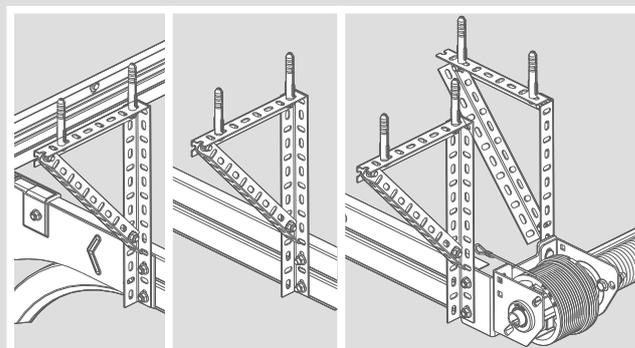
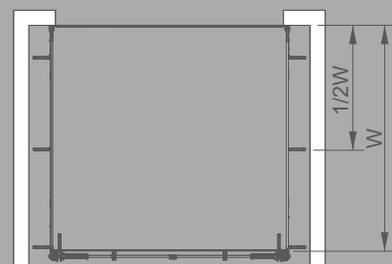
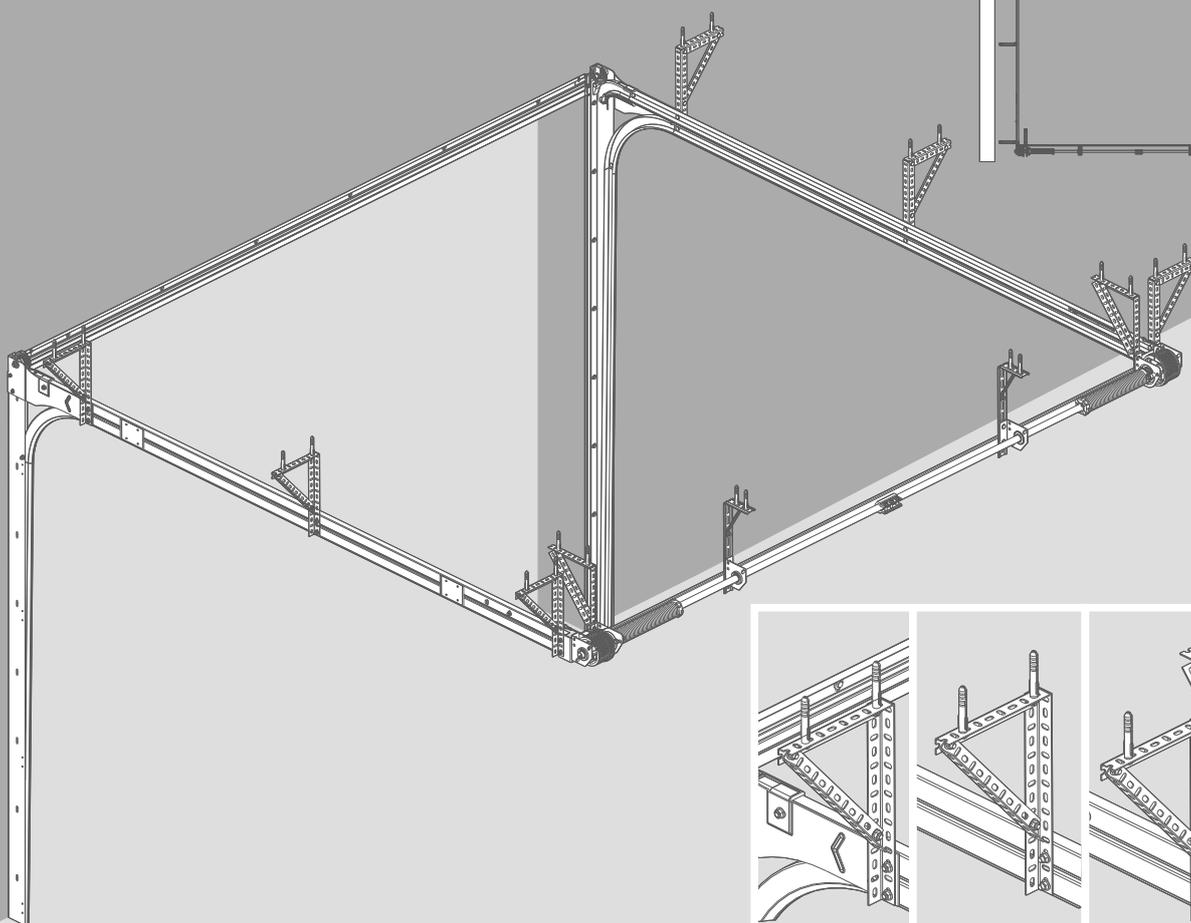
5A



# 5B



# 5C



# 6A

**GR GL RH LH**  
rot blau schwarz rot

**6.1a**  
**6.1b**

**i**

**6.3a**  
**6.3b**

**GR**

**RH**

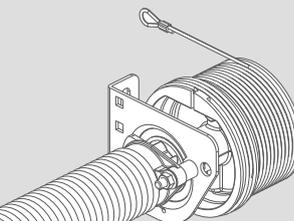
**LH**

**GL**

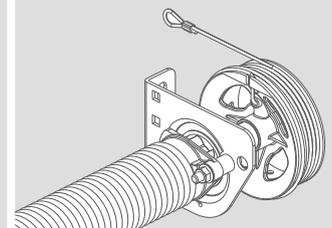
**6.3a**  
**6.3b**

**6.1a**  
**6.2a**

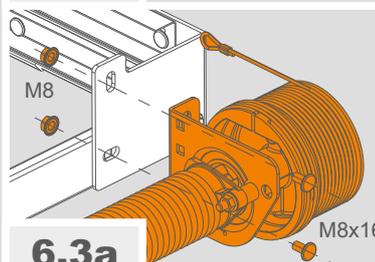
**6.1b**  
**6.2b**



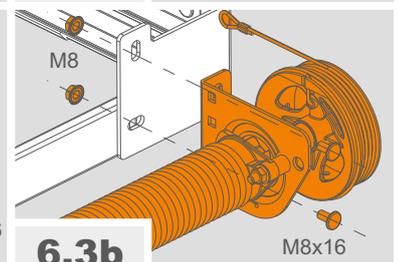
**6.2a**



**6.2b**



**6.3a**



**6.3b**

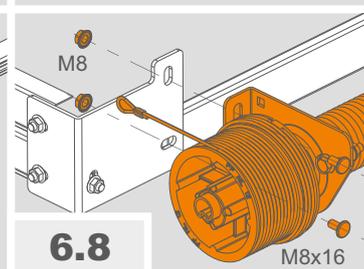
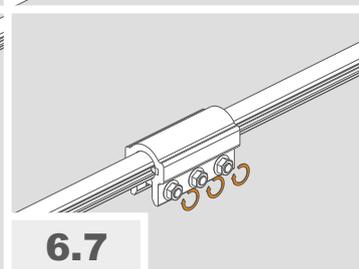
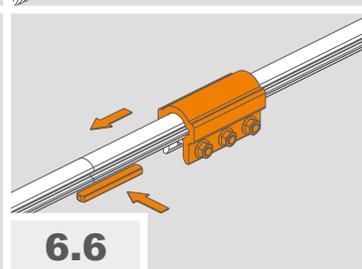
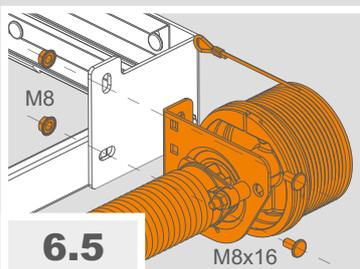
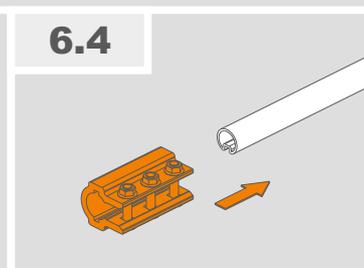
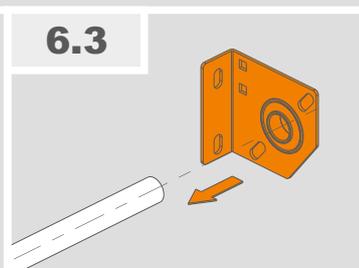
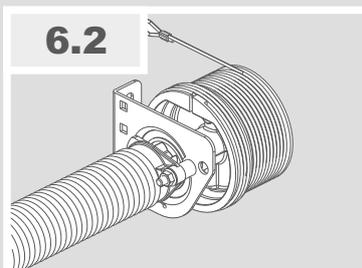
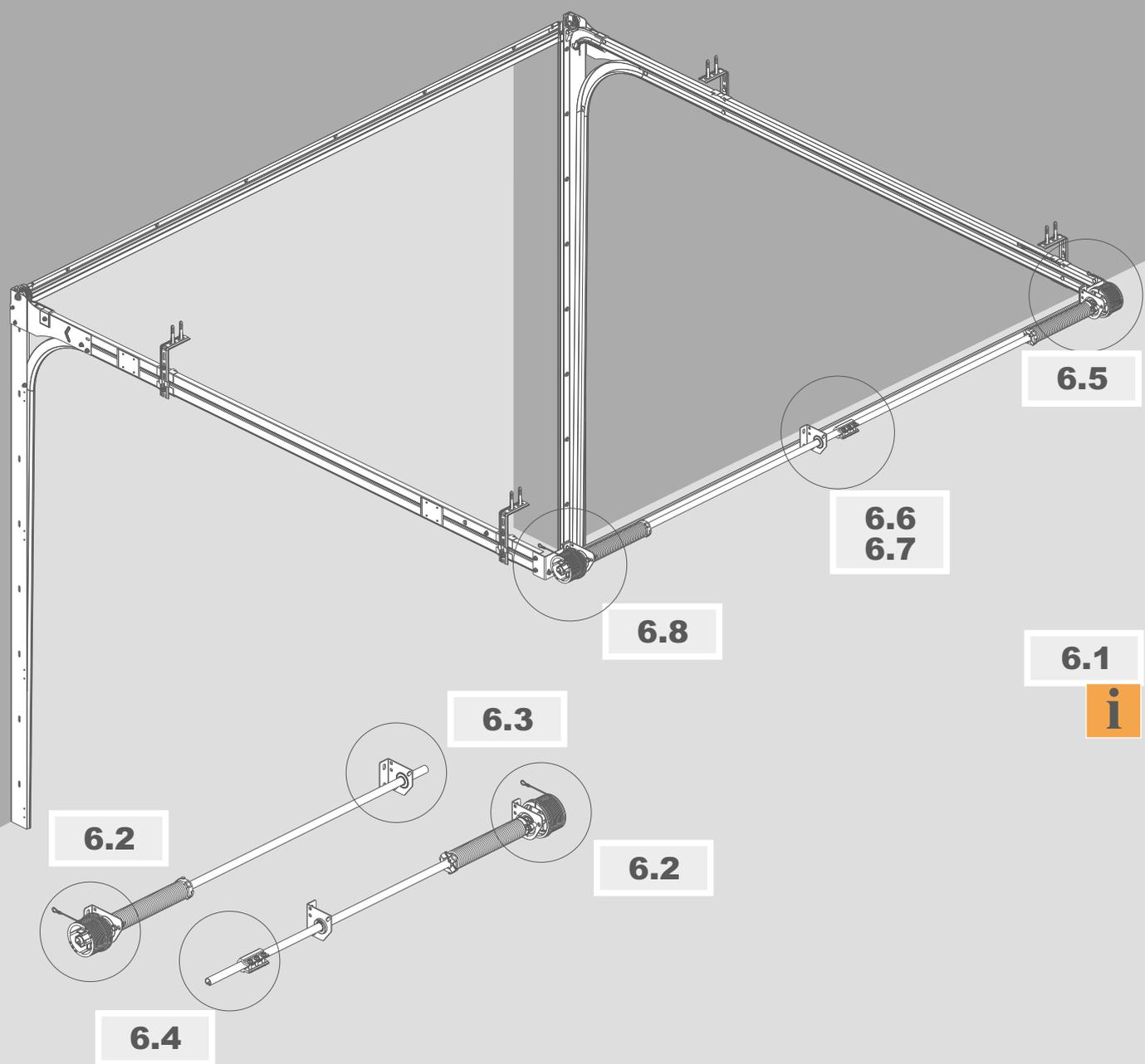
M8x16

M8x16

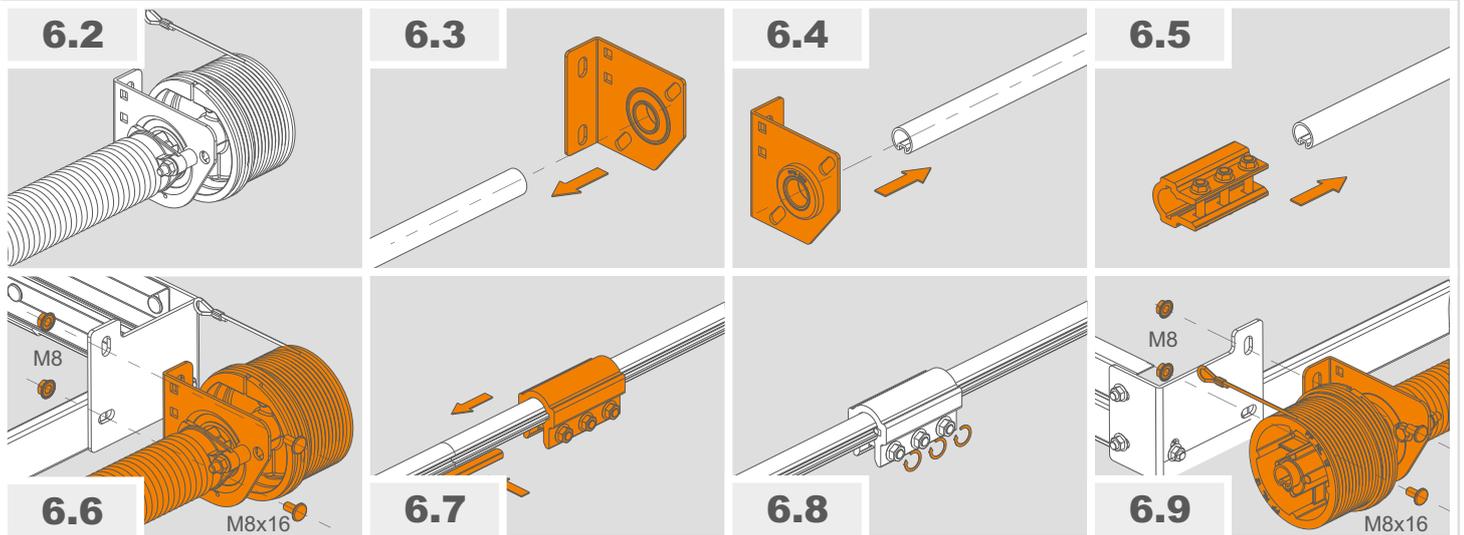
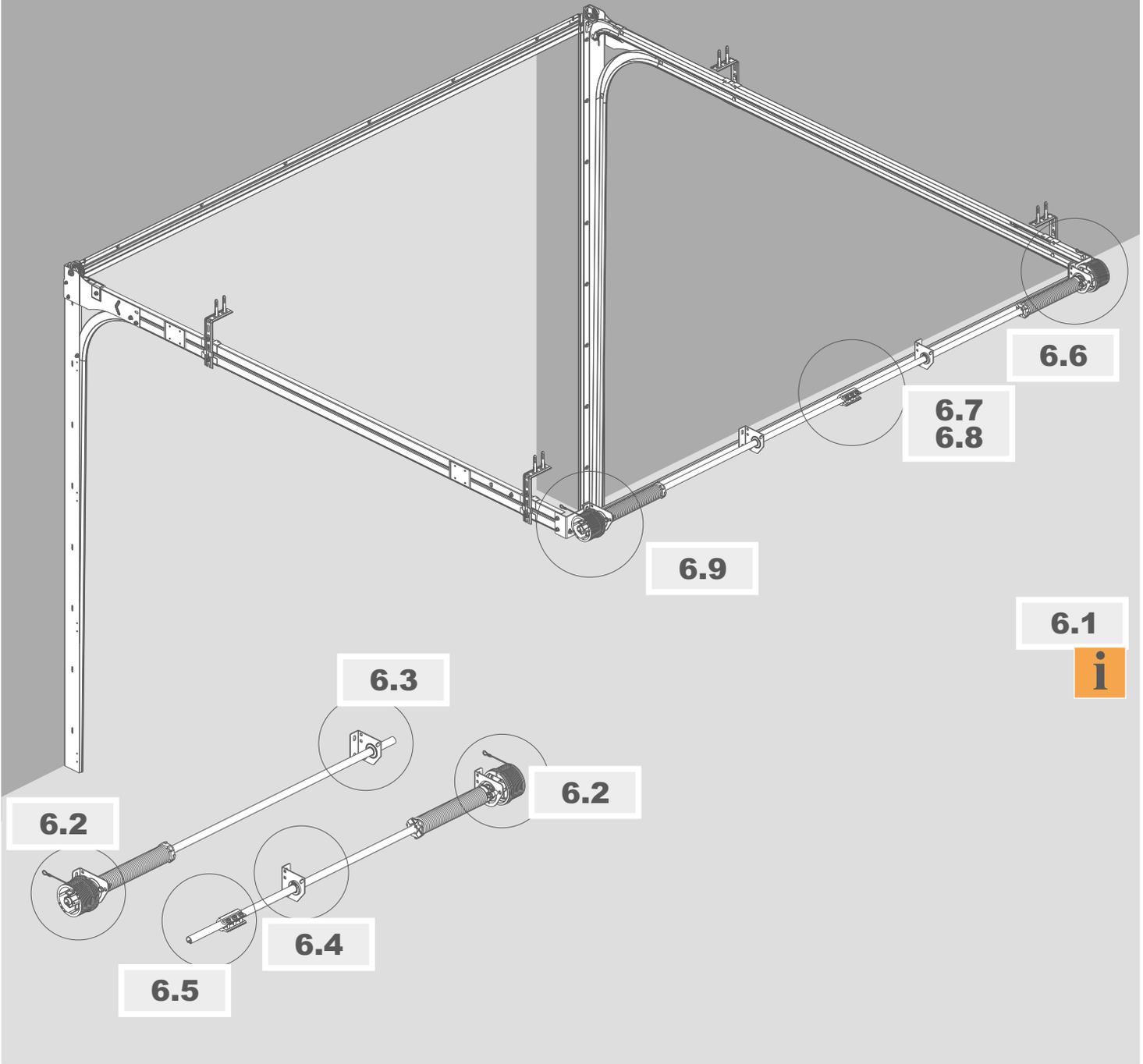
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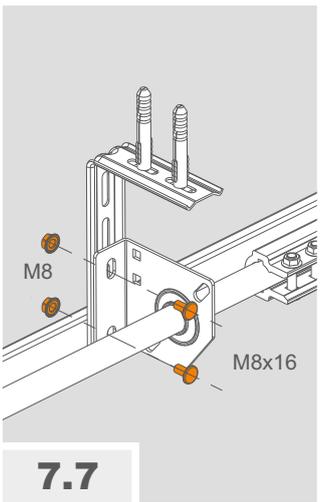
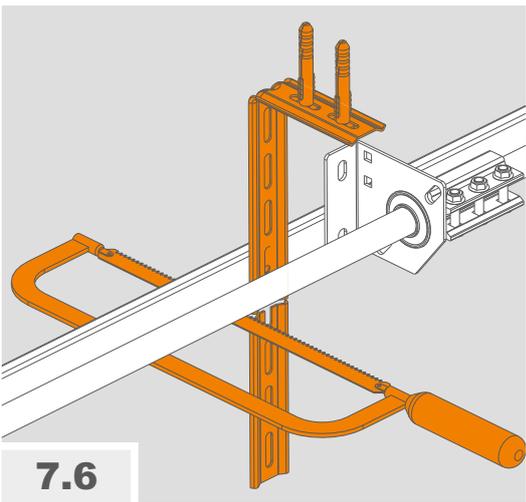
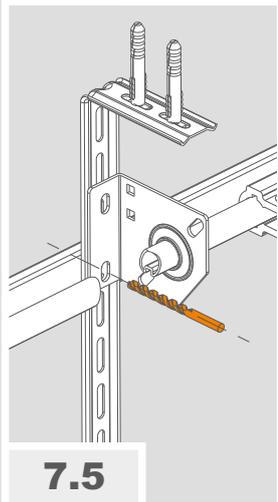
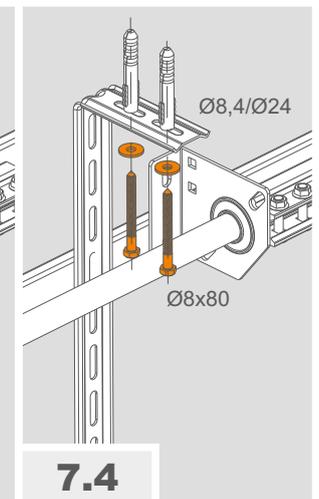
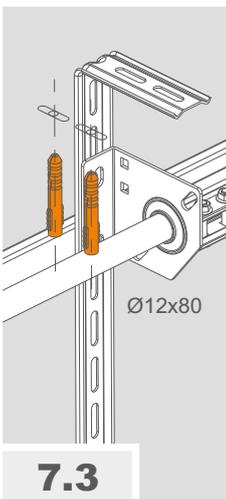
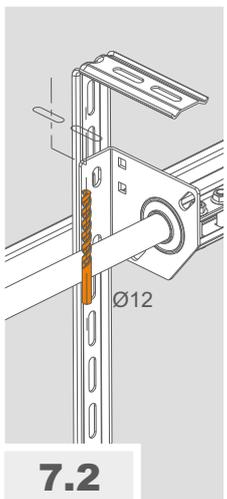
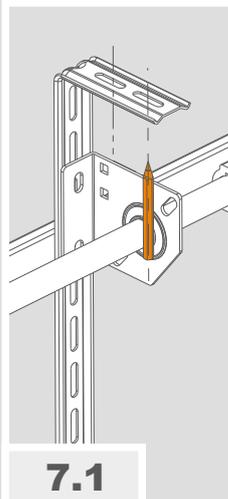
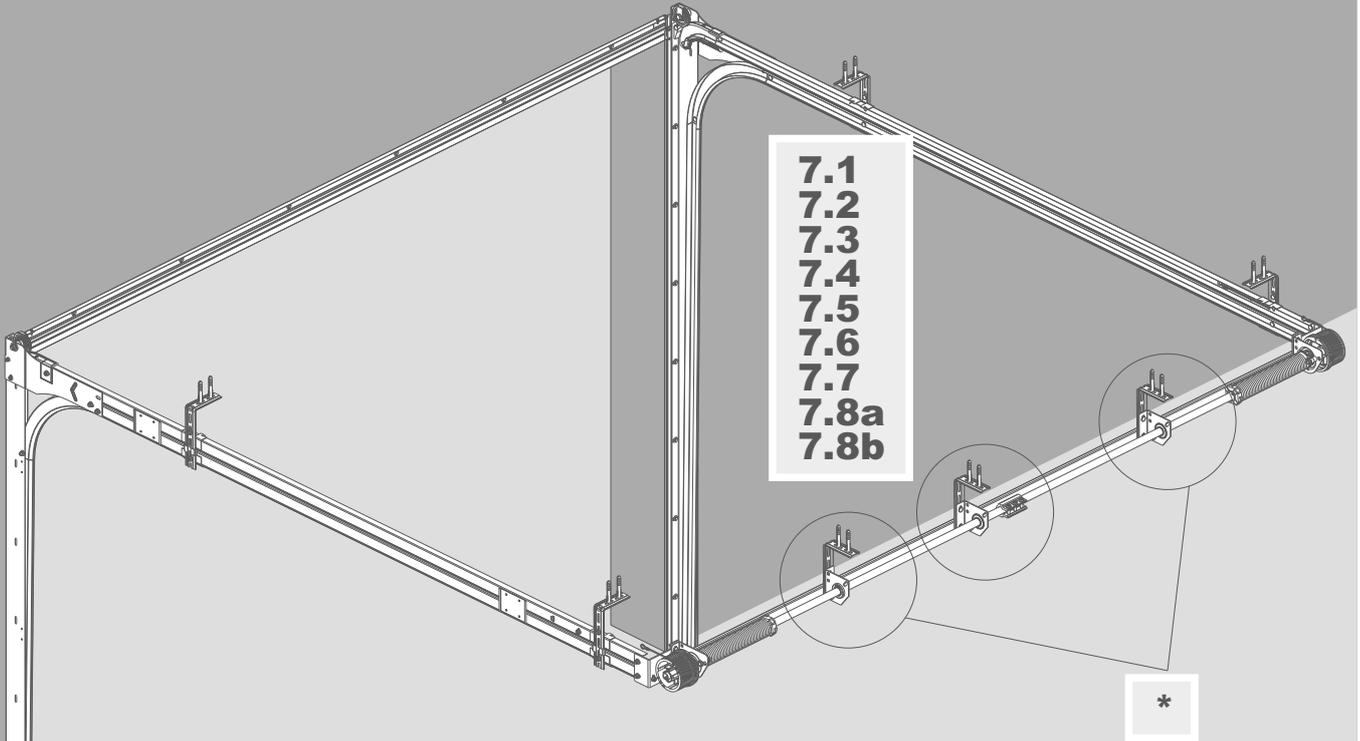
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# 6B

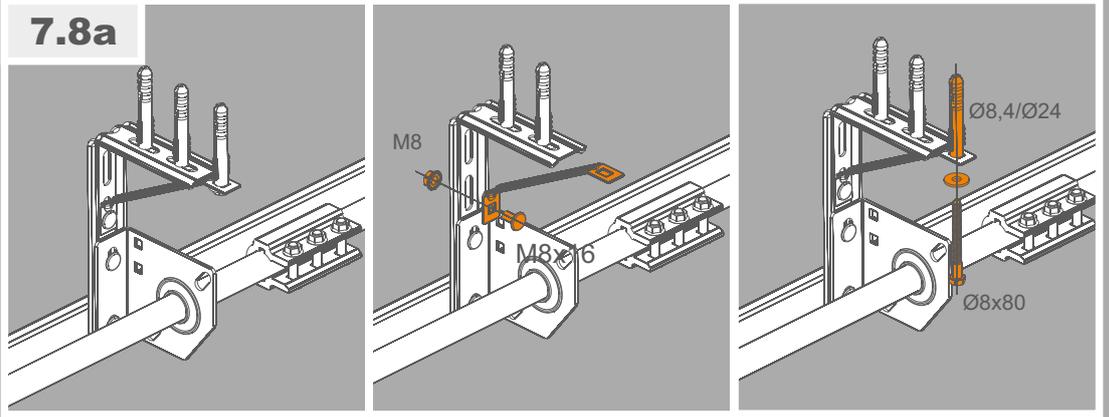


# 6C

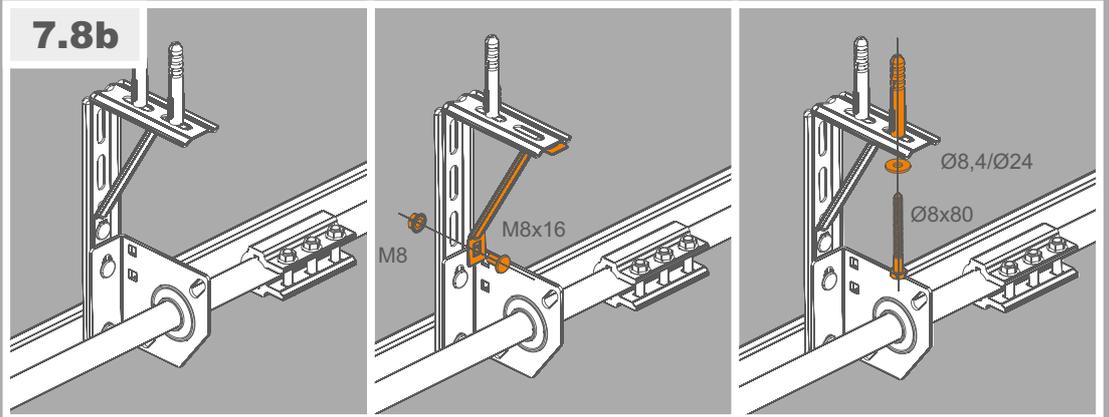




7.8a

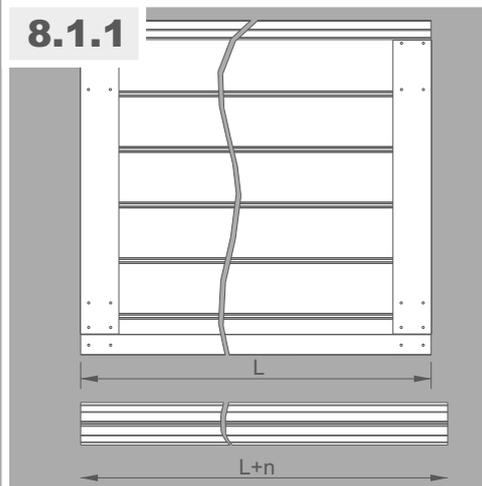


7.8b

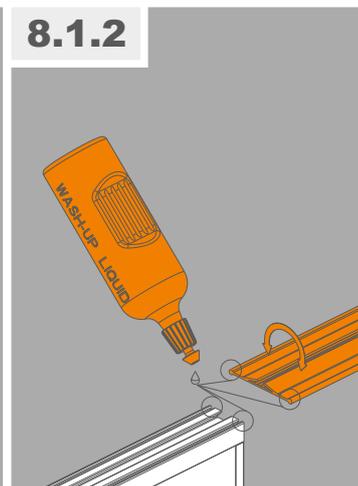


# 8

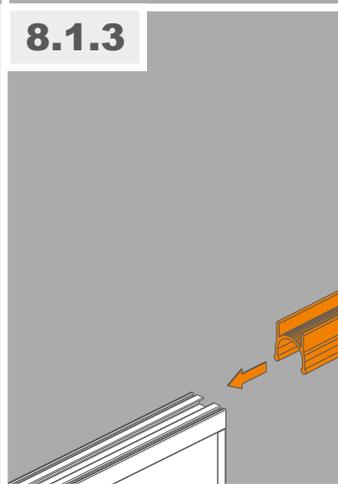
8.1.1



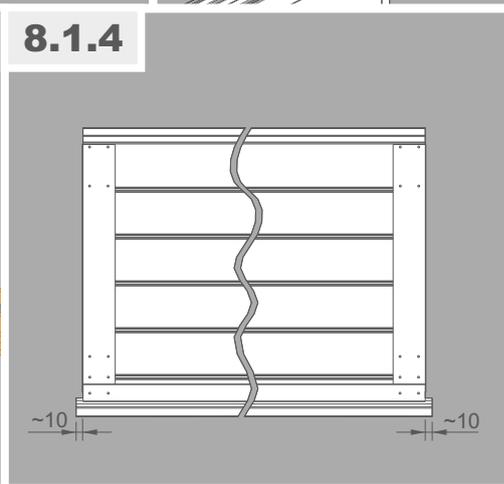
8.1.2



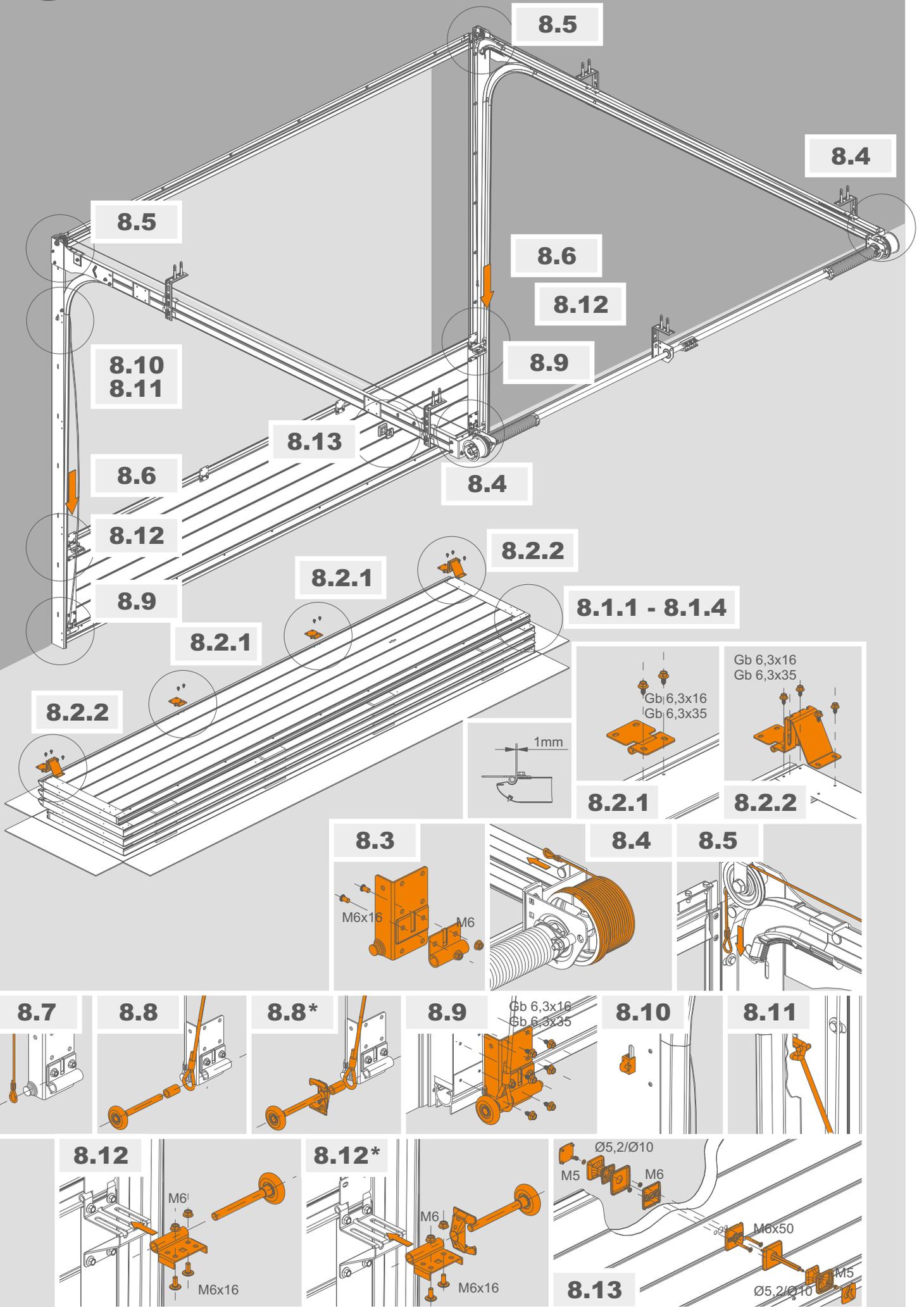
8.1.3

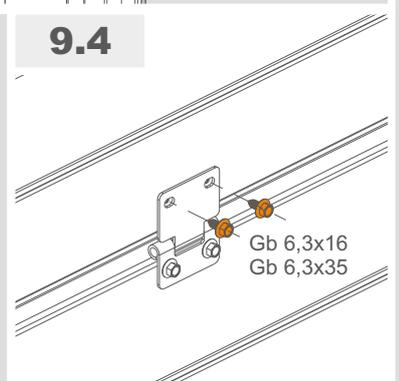
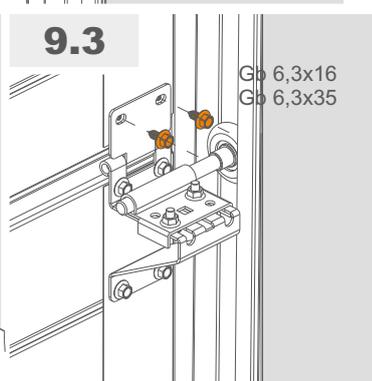
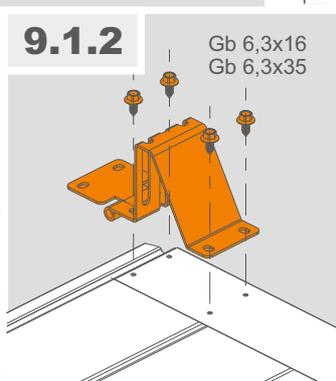
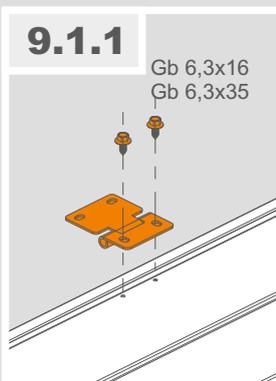
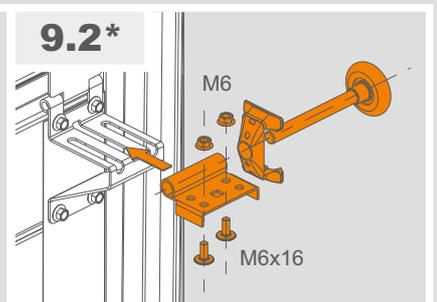
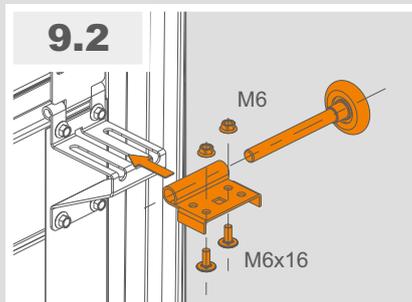
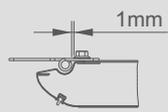
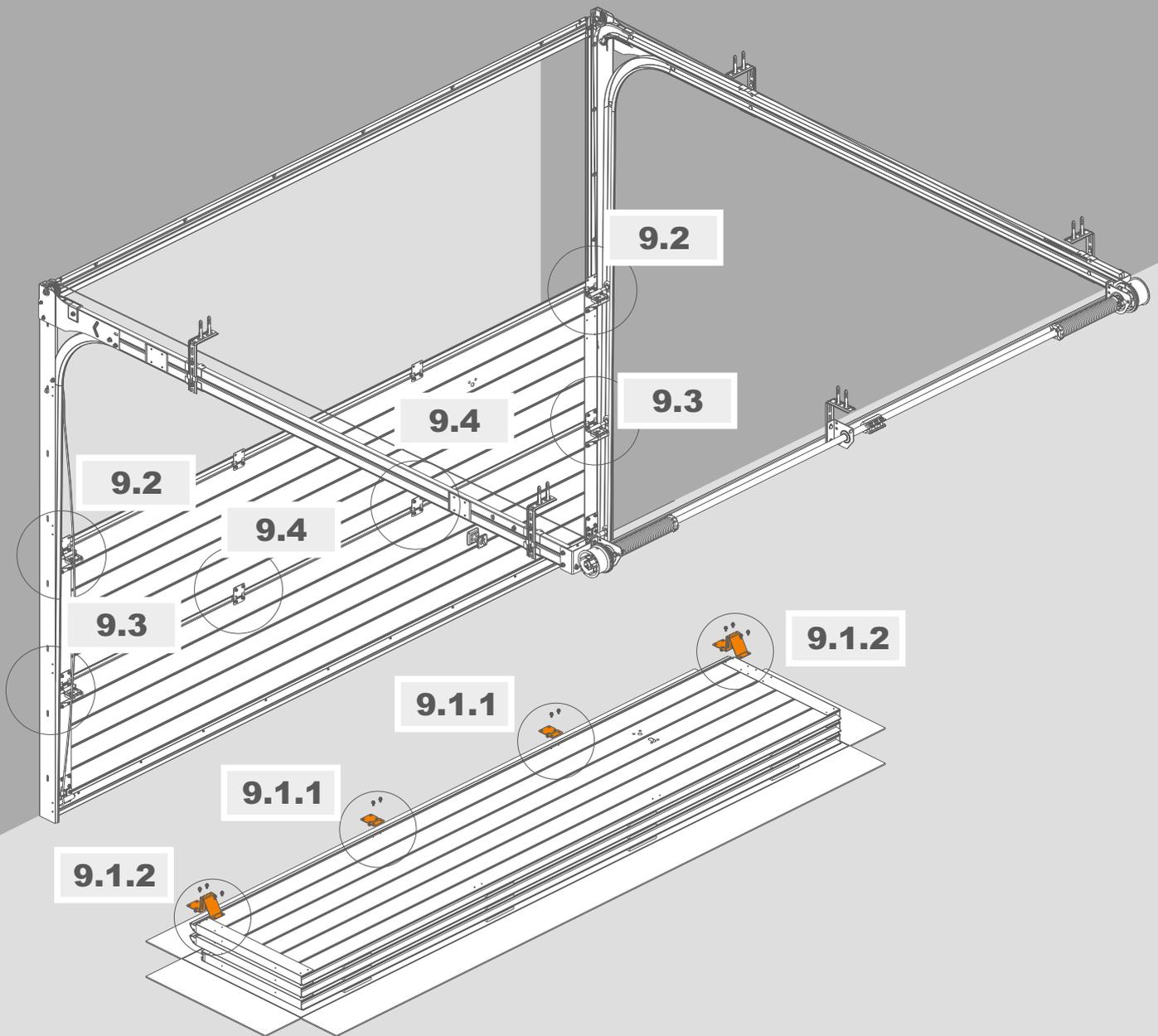


8.1.4

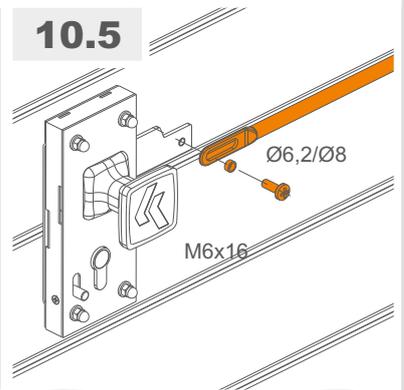
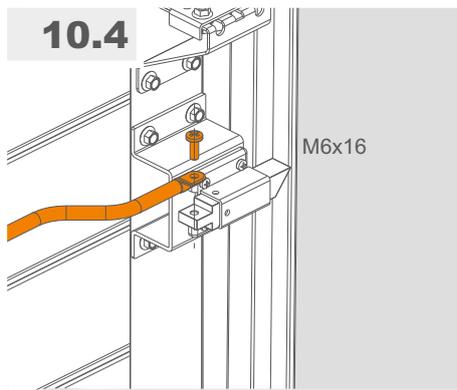
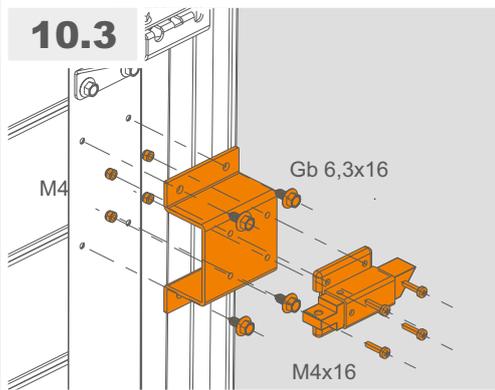
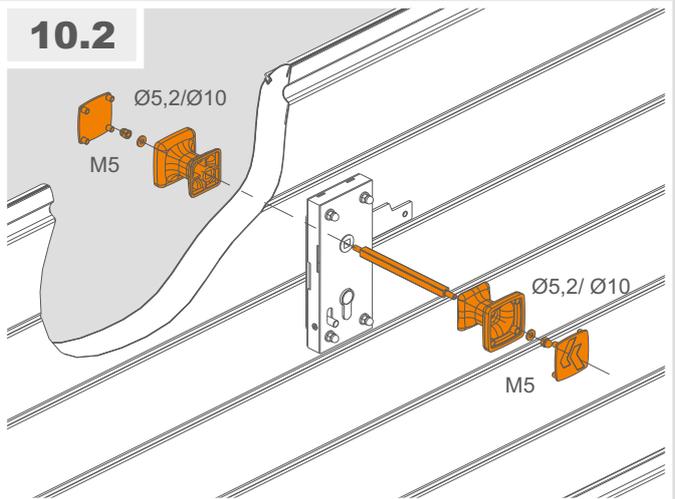
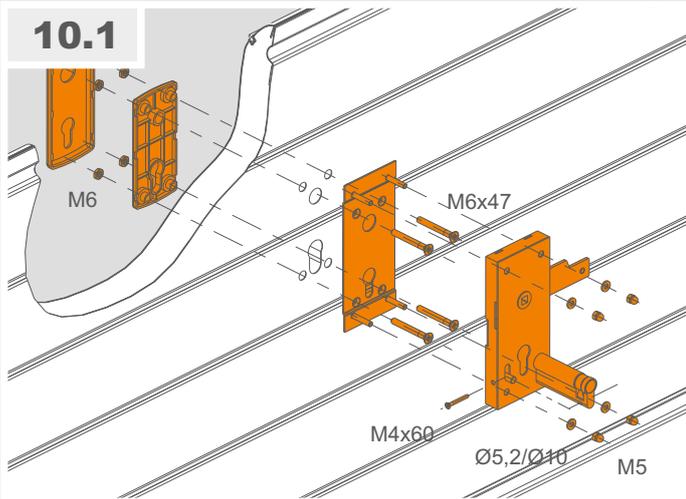
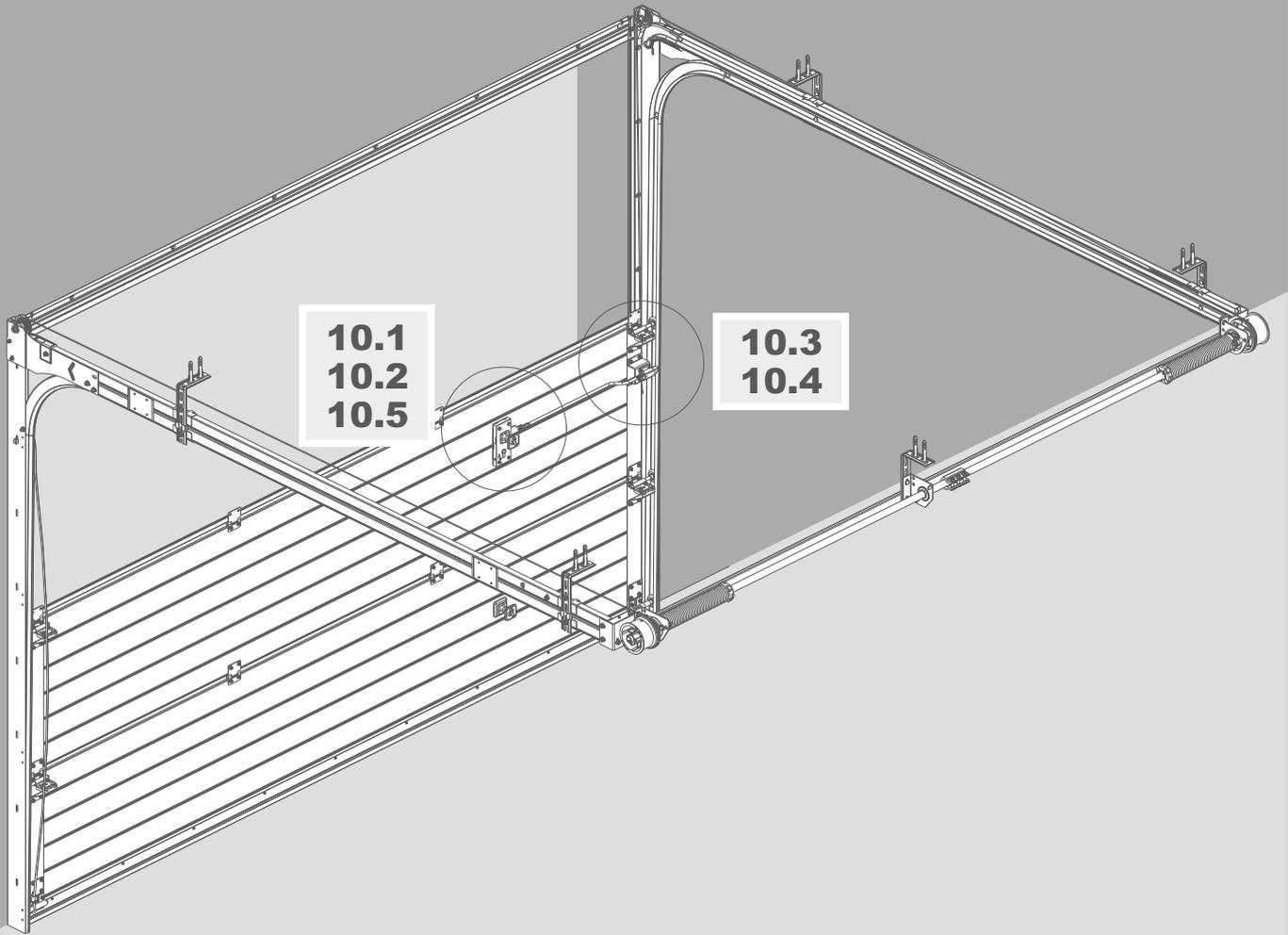


# 8



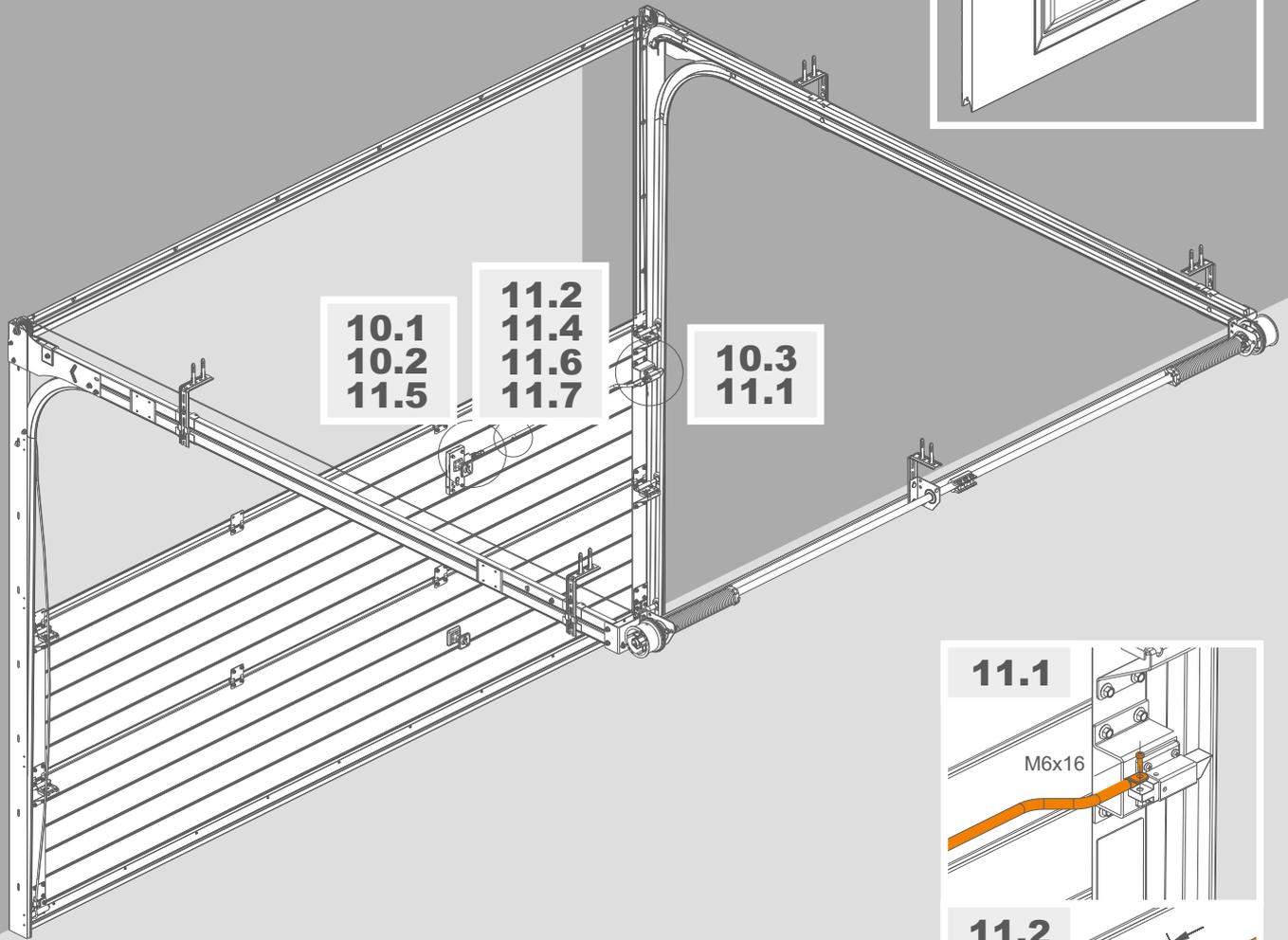
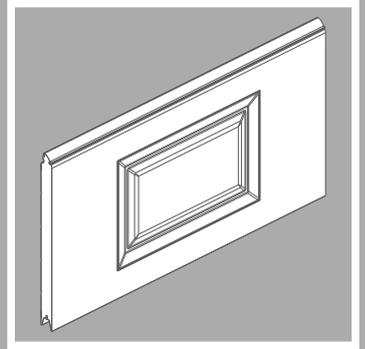


# 10\*



# 11\*

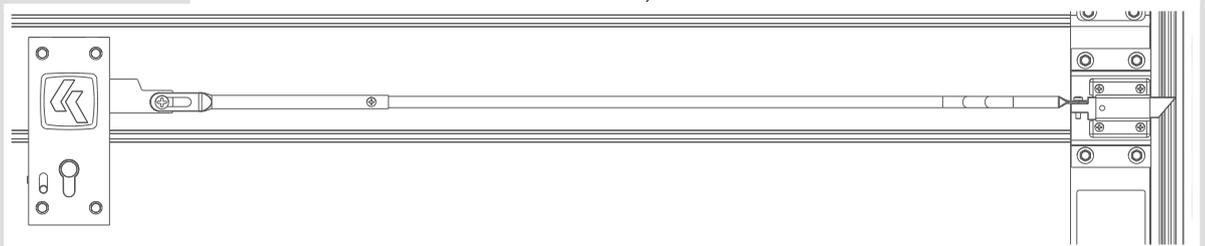
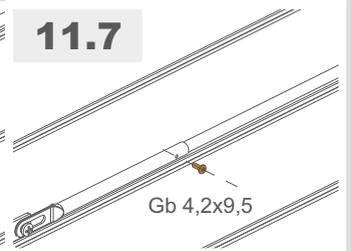
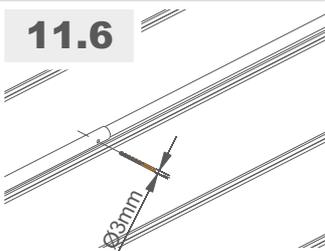
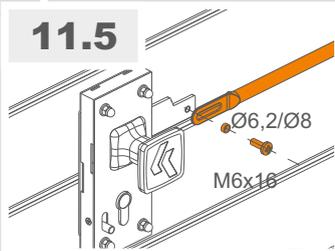
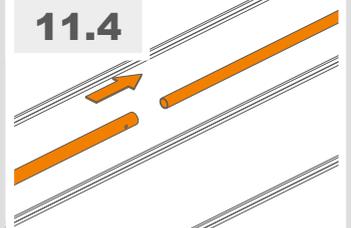
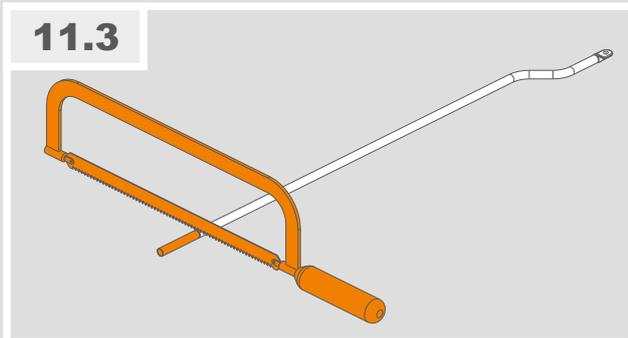
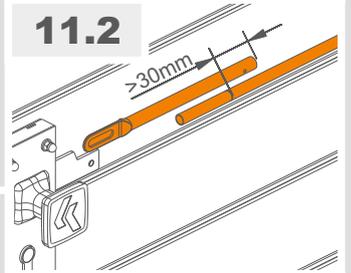
## ST42 TL Kassette



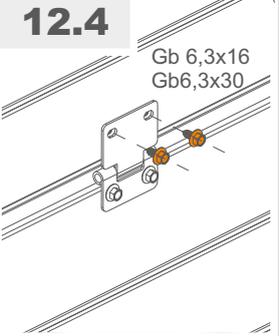
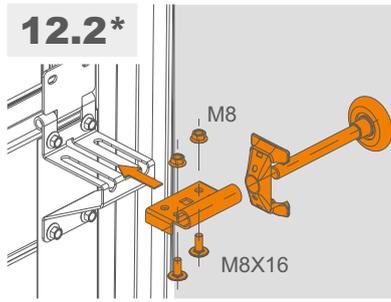
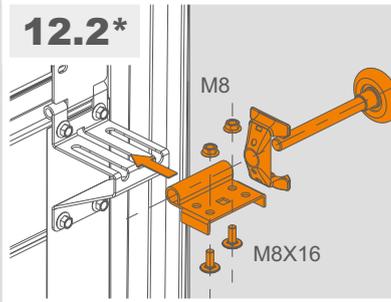
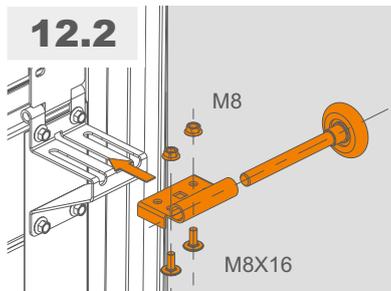
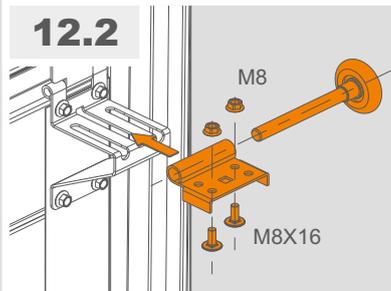
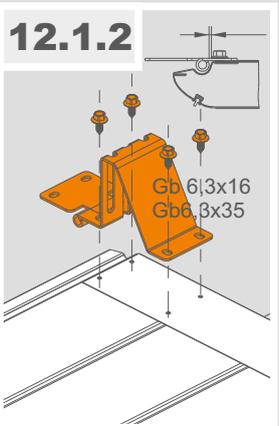
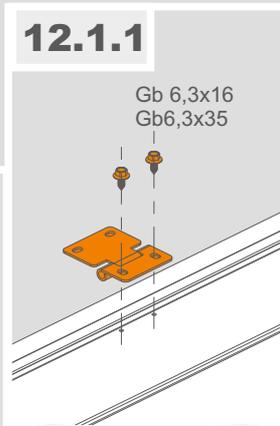
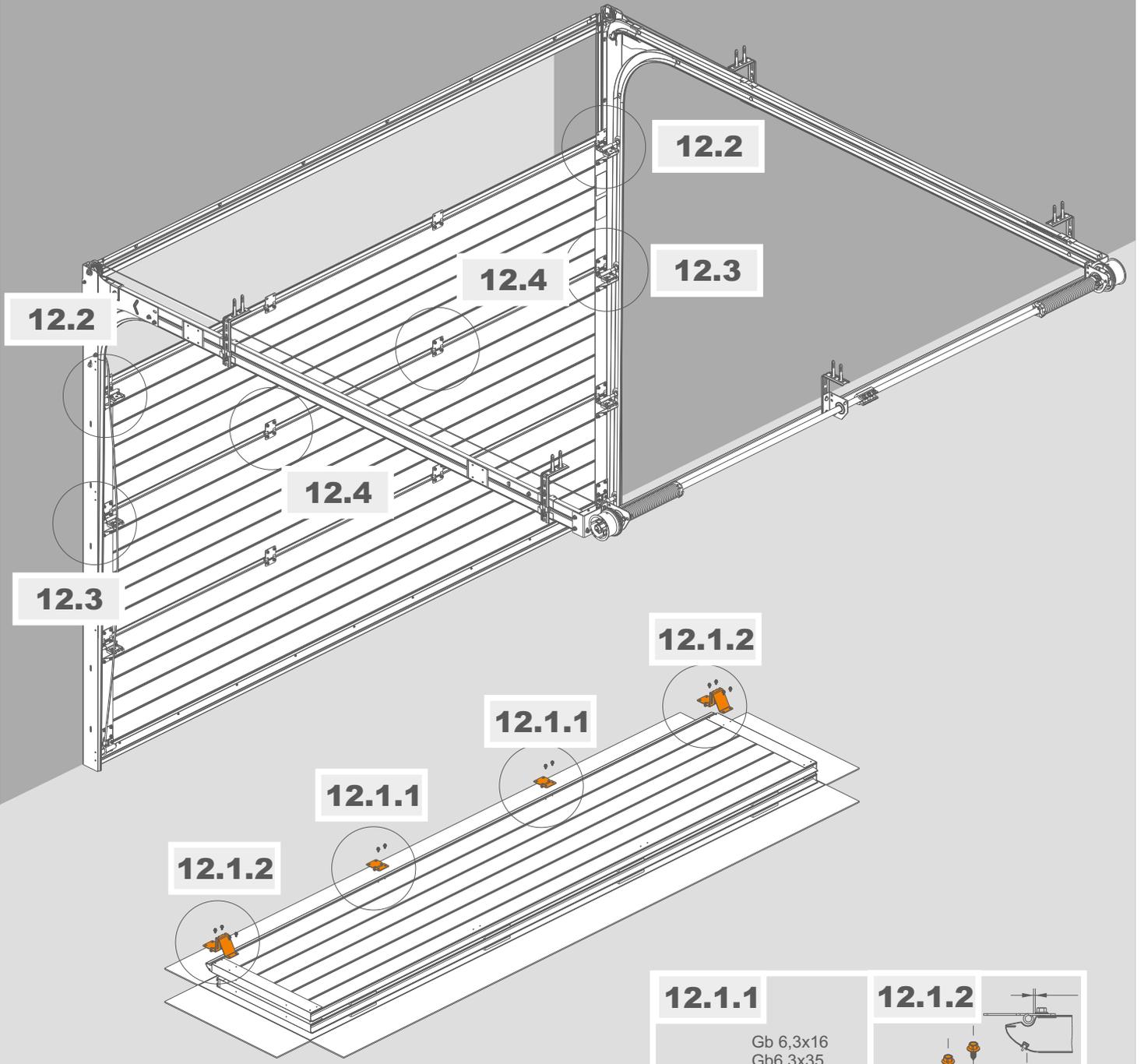
10.1  
10.2  
11.5

11.2  
11.4  
11.6  
11.7

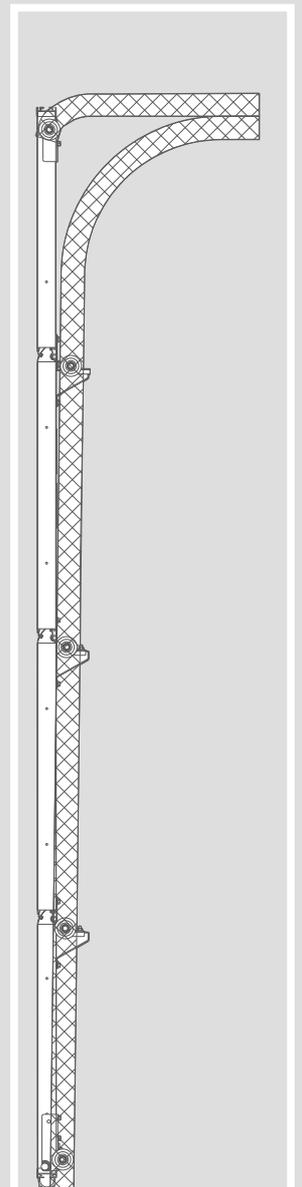
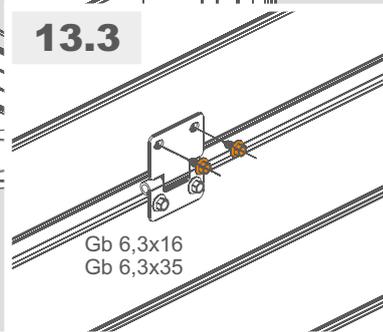
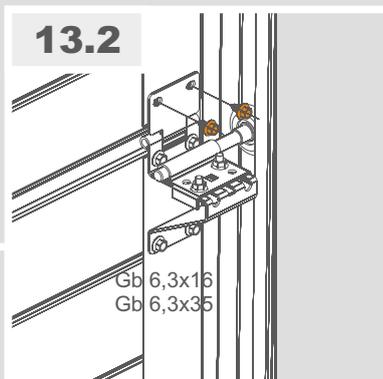
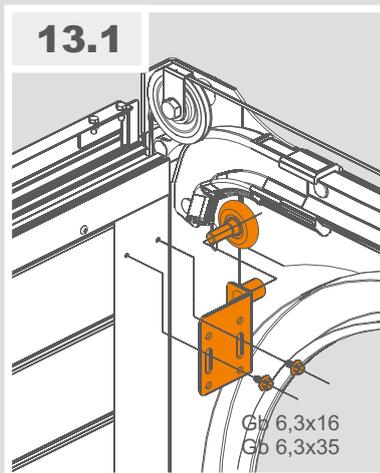
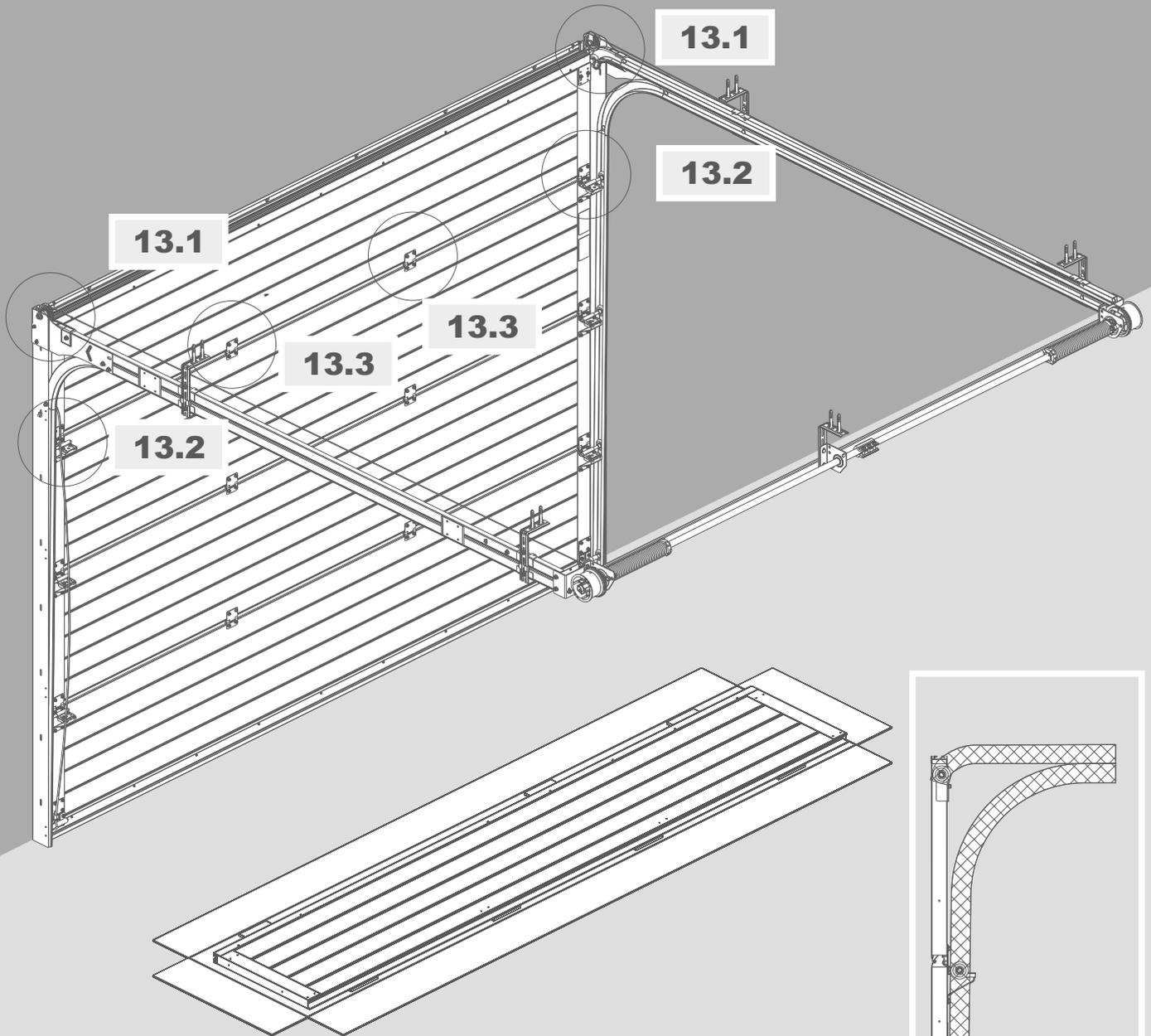
10.3  
11.1



# 12

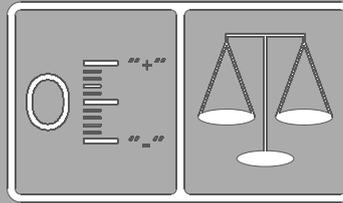


# 13\*



# 14

14.4  
14.5



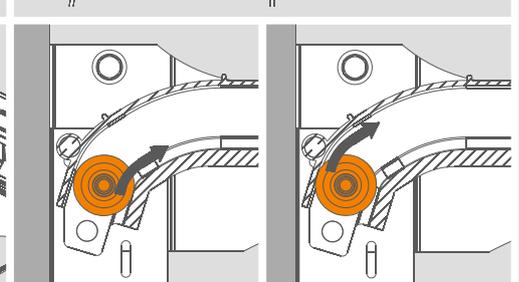
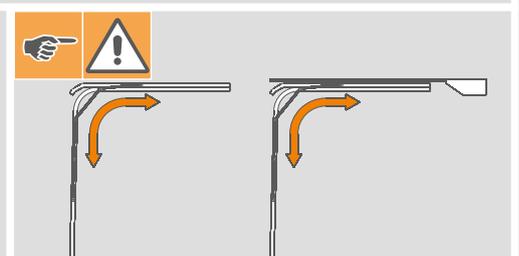
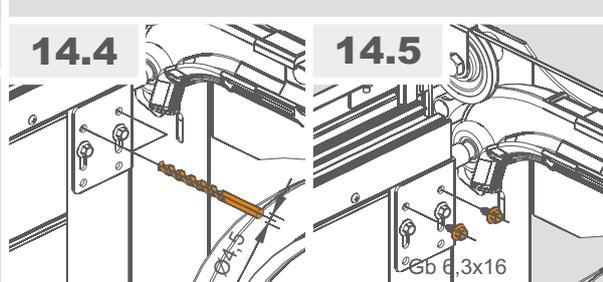
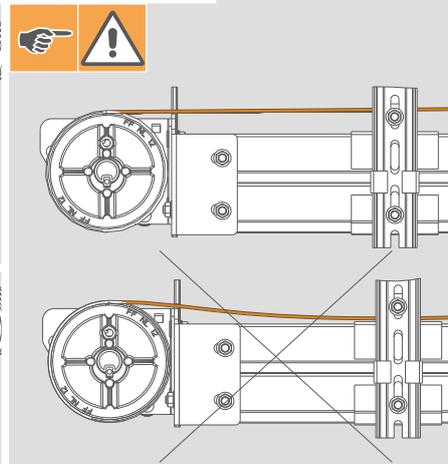
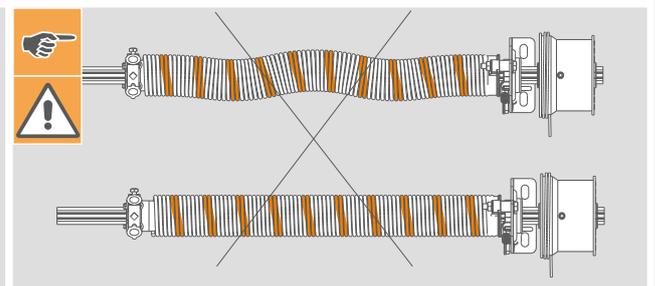
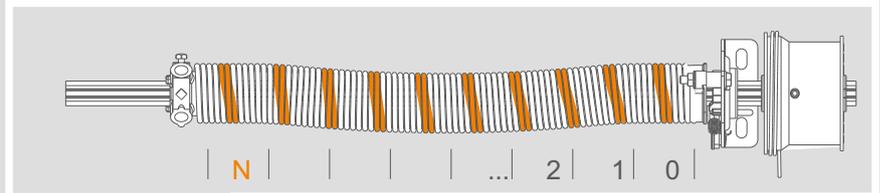
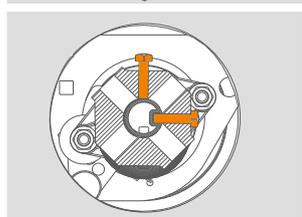
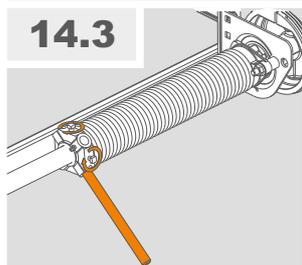
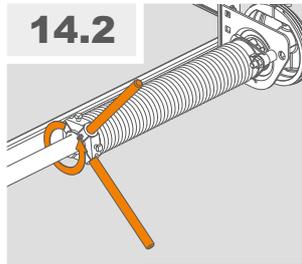
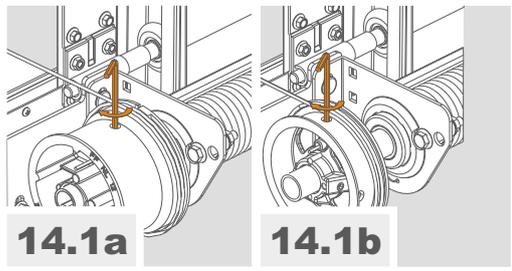
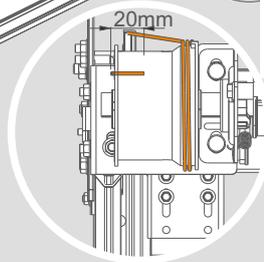
14.4  
14.5

14.1a  
14.1b

14.2  
14.3

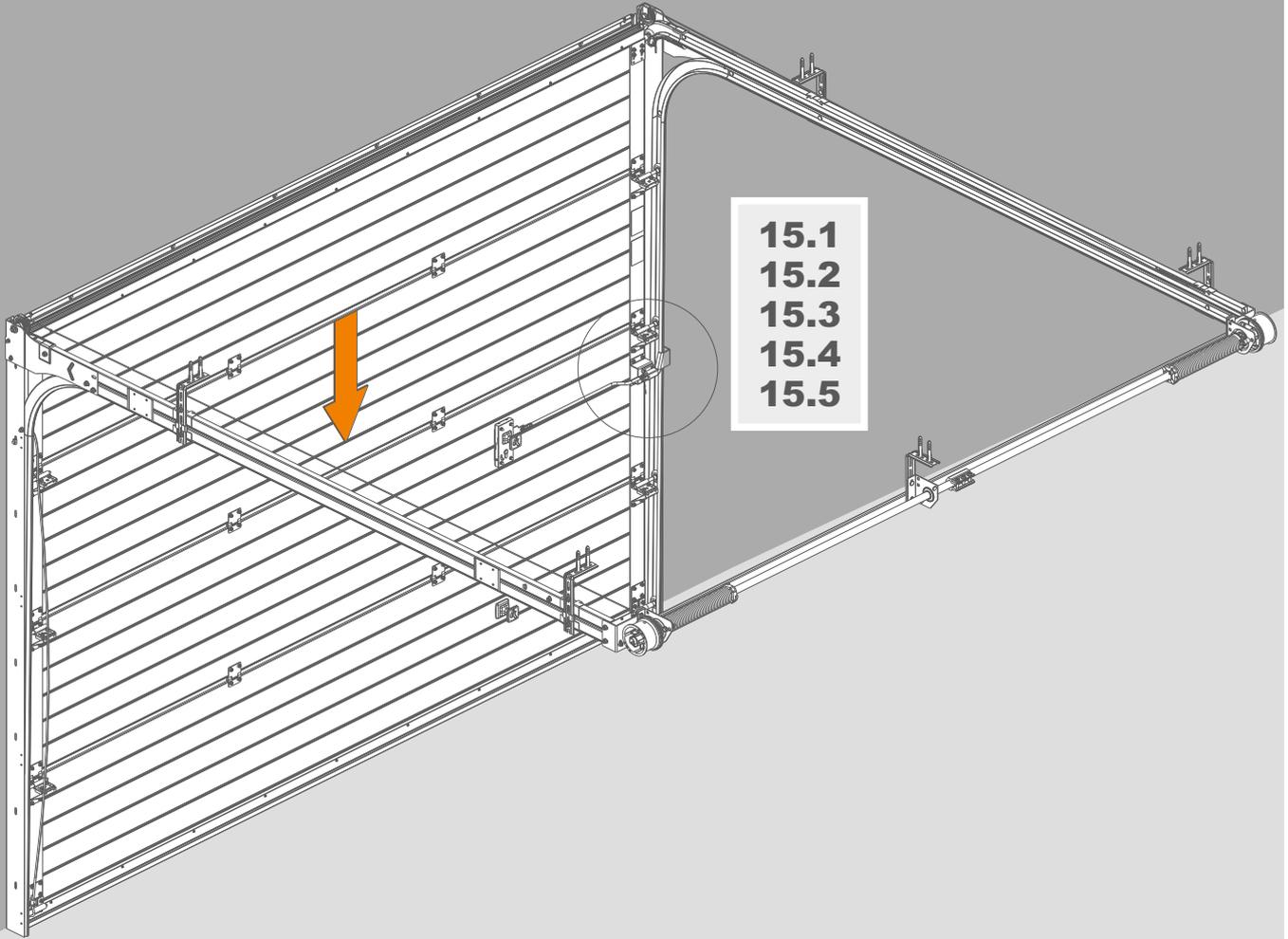
14.1a  
14.1b

14.2  
14.3

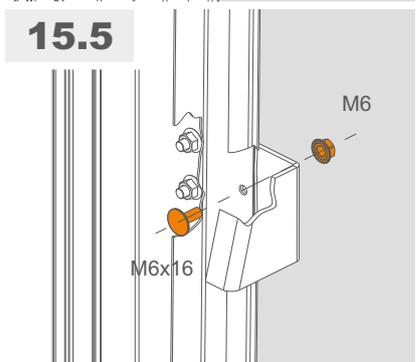
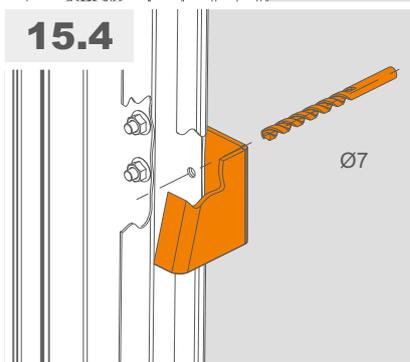
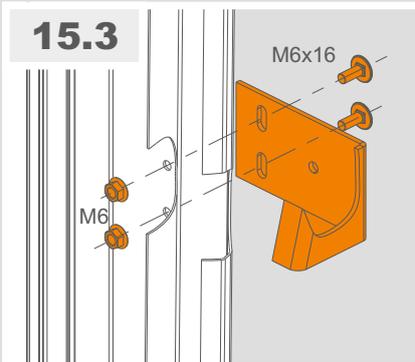
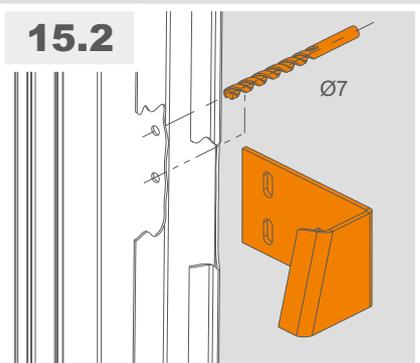
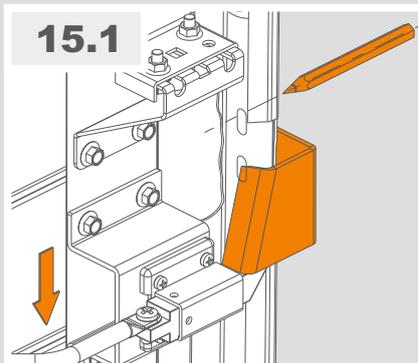


Gb 6,3x16

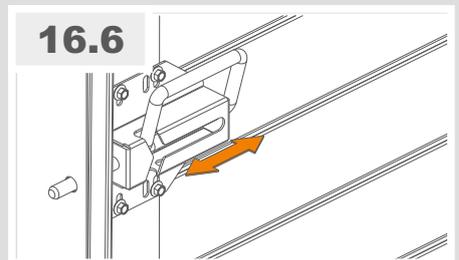
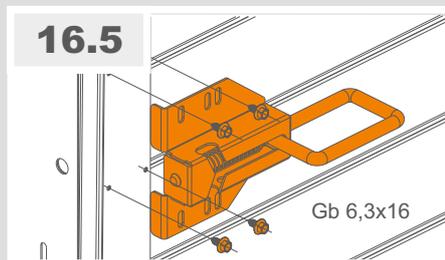
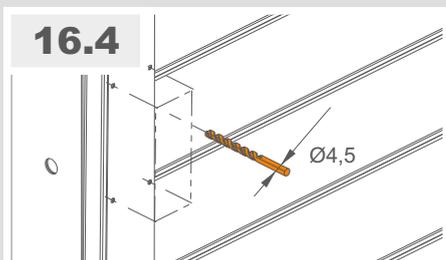
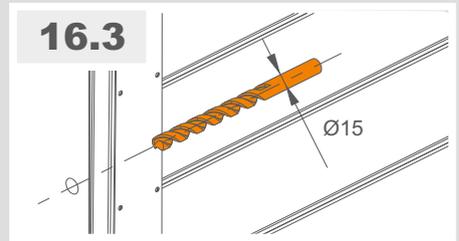
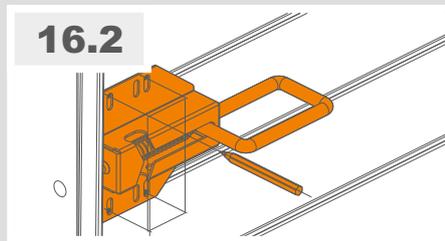
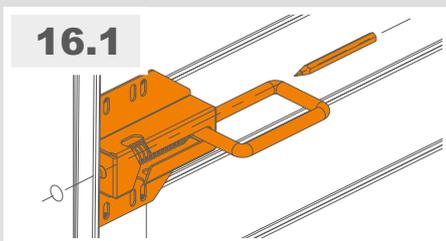
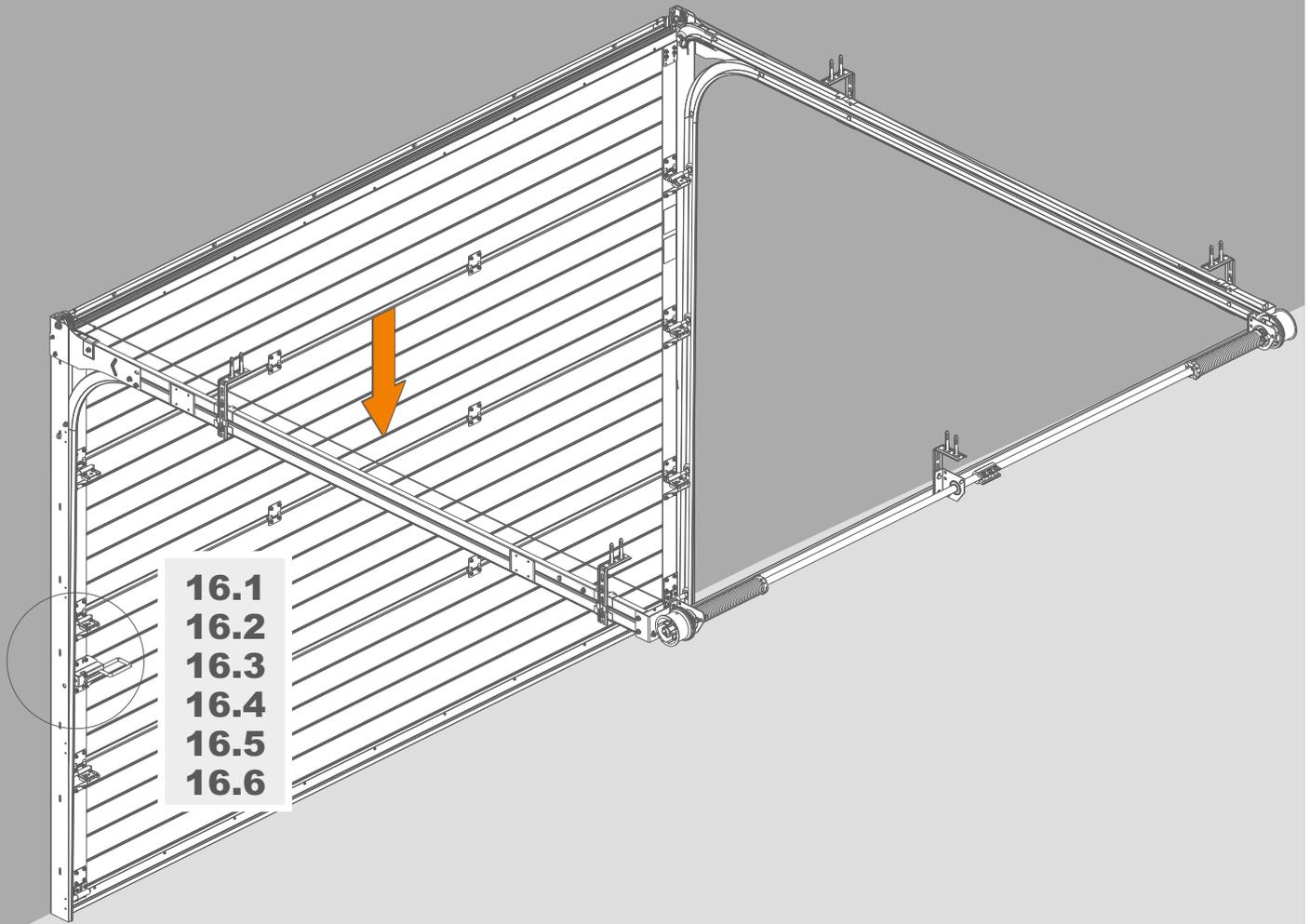
# 15\*



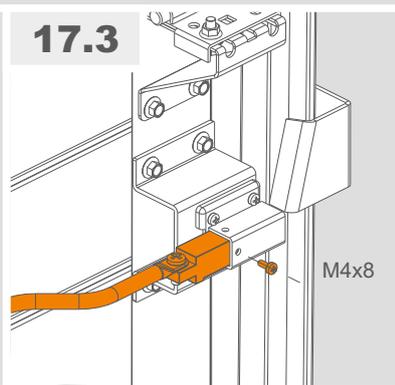
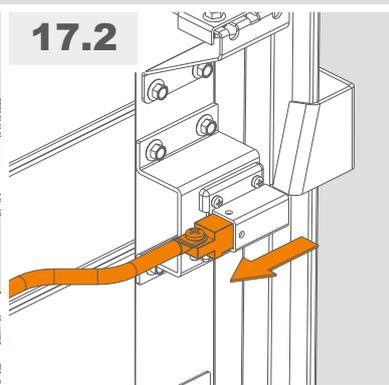
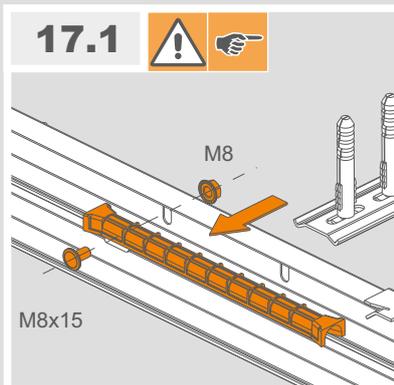
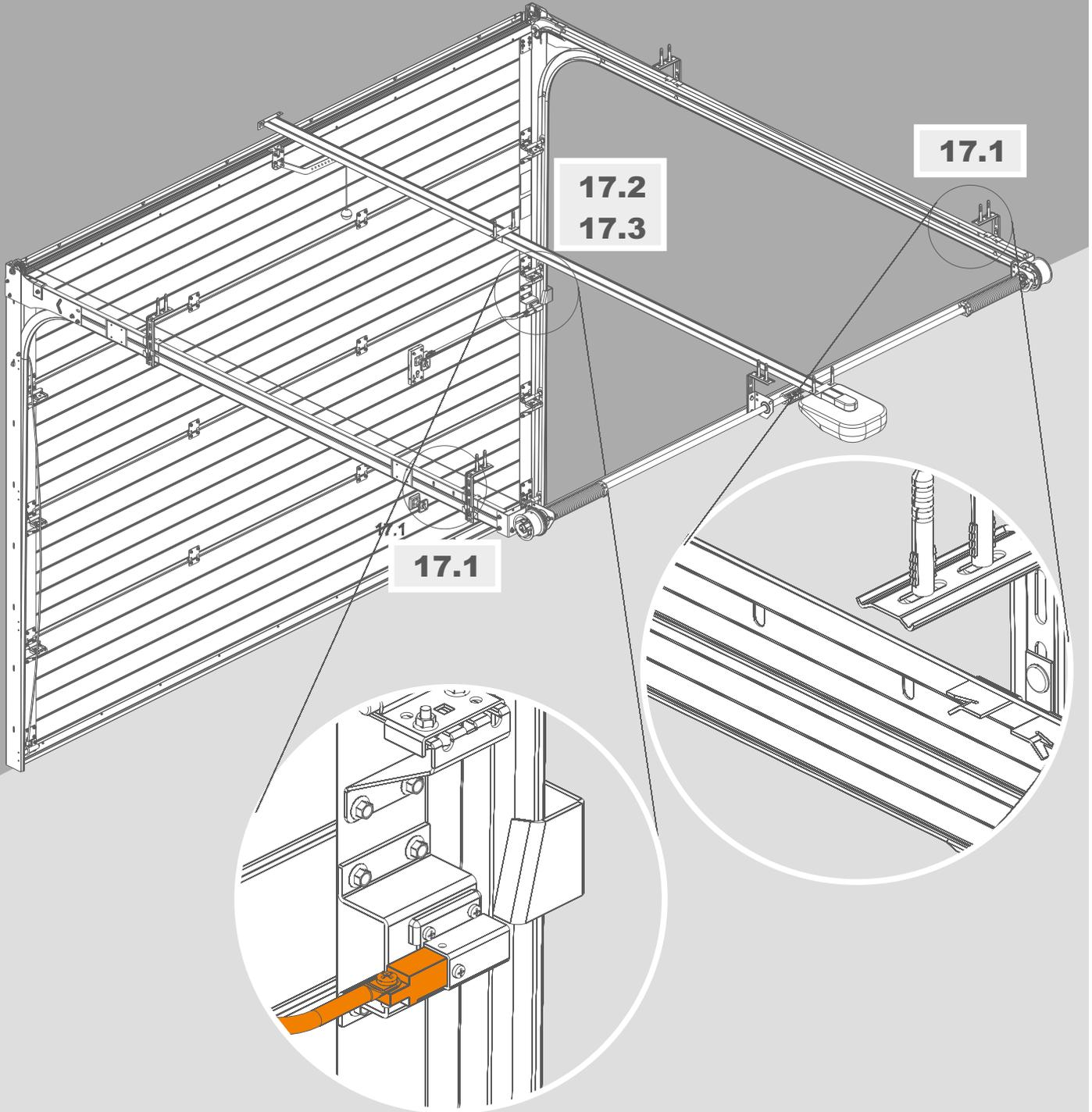
- 15.1
- 15.2
- 15.3
- 15.4
- 15.5



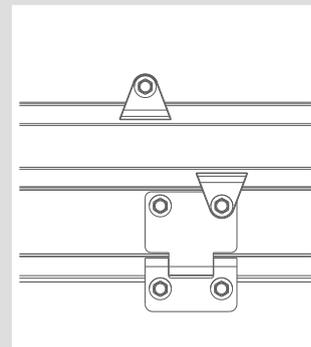
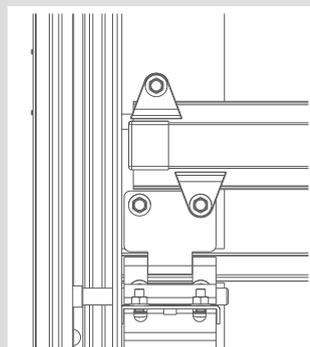
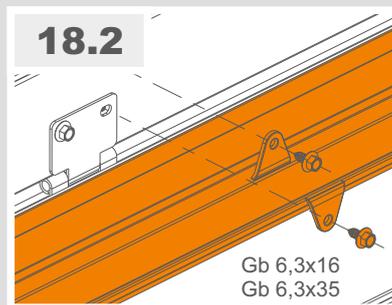
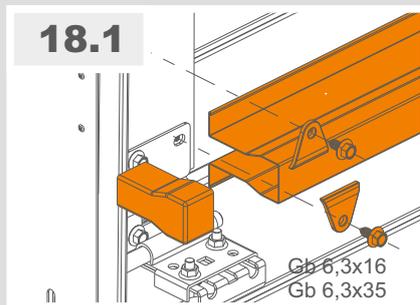
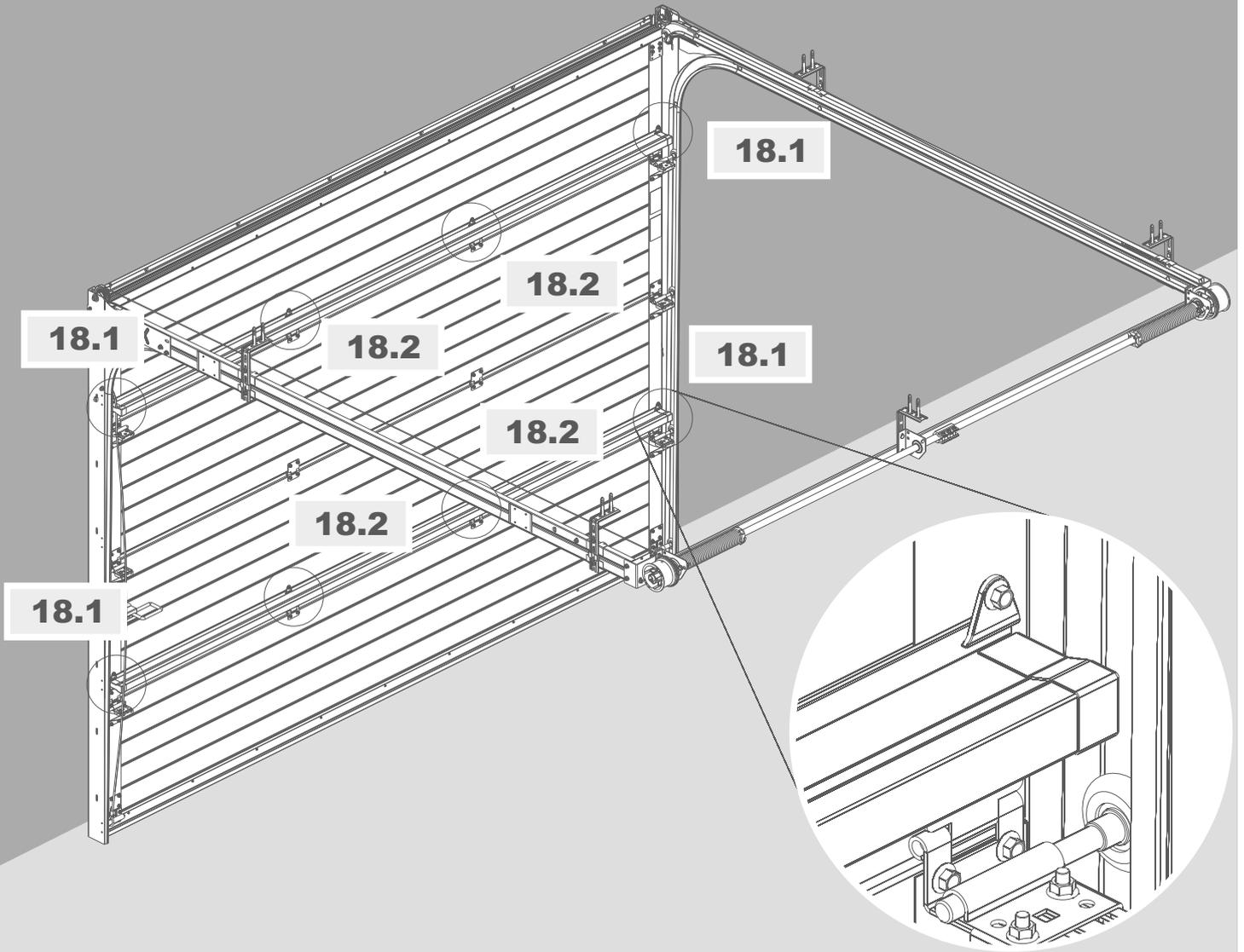
# 16



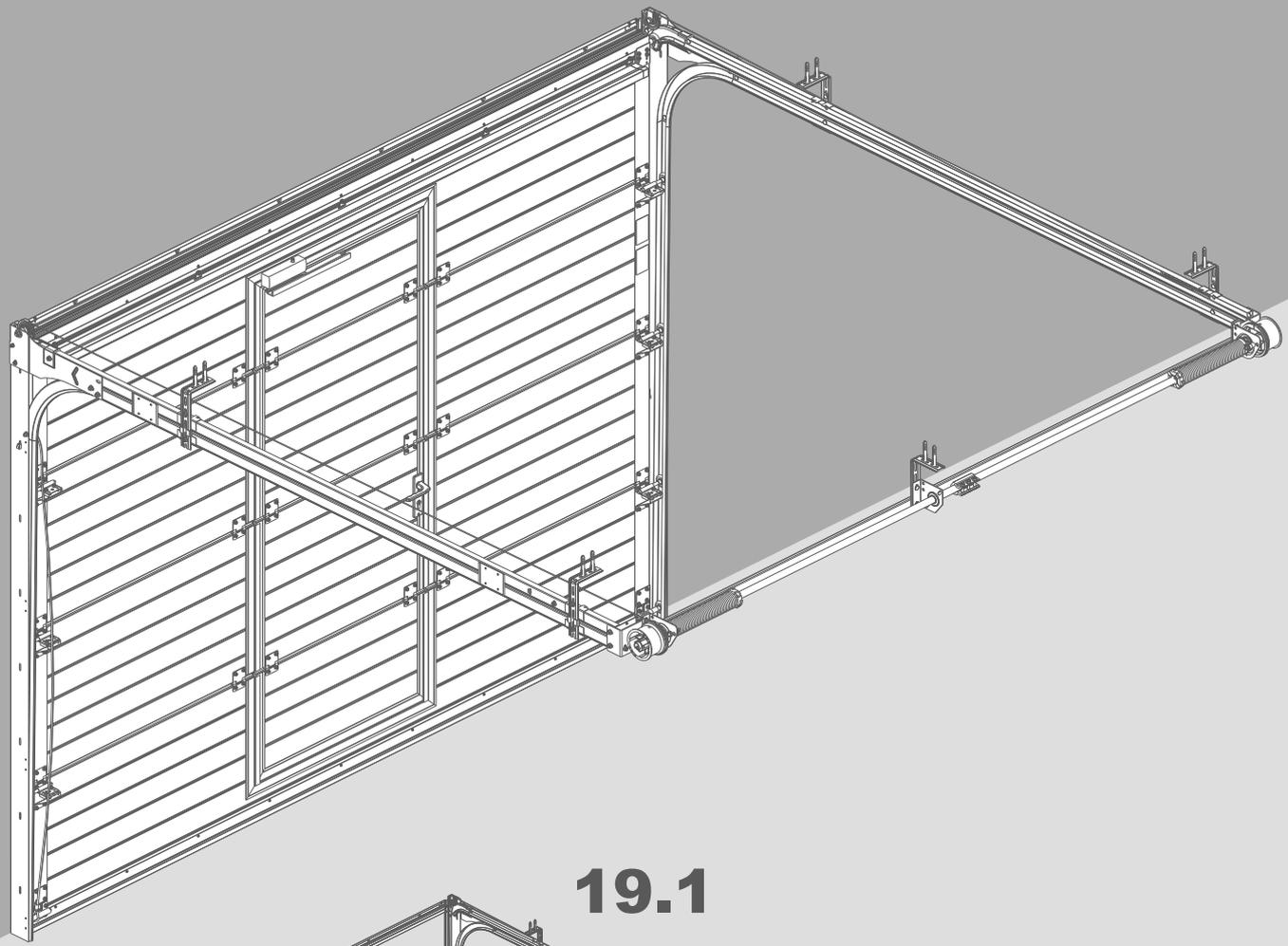
# 17\*



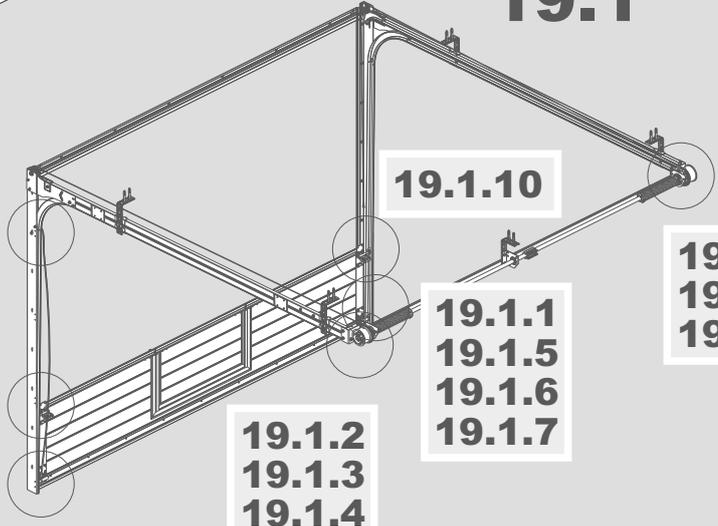
# 18\*



# 19\*



## 19.1



19.1.8  
19.1.9

19.1.10

19.1.2  
19.1.3  
19.1.4

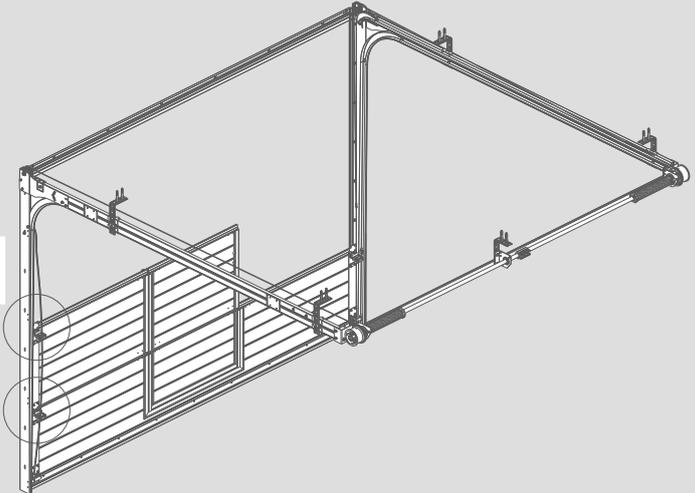
18.1.10

19.1.1  
19.1.5  
19.1.6  
19.1.7

19.1.2  
19.1.3  
19.1.4

19.1.1  
19.1.5  
19.1.6  
19.1.7

## 19.2

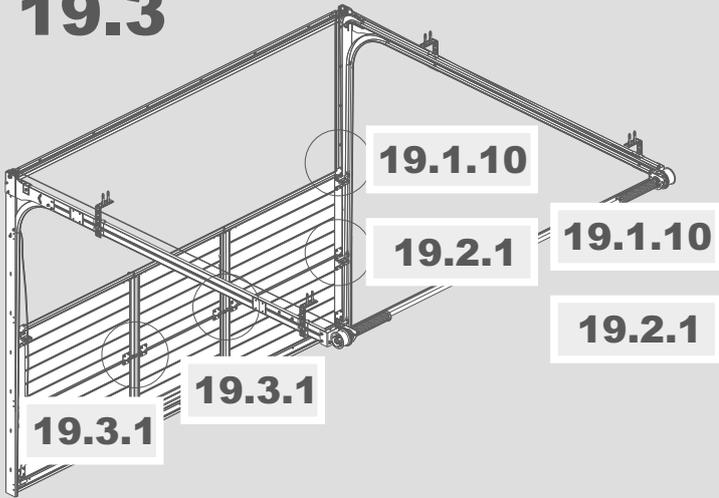


19.1.10

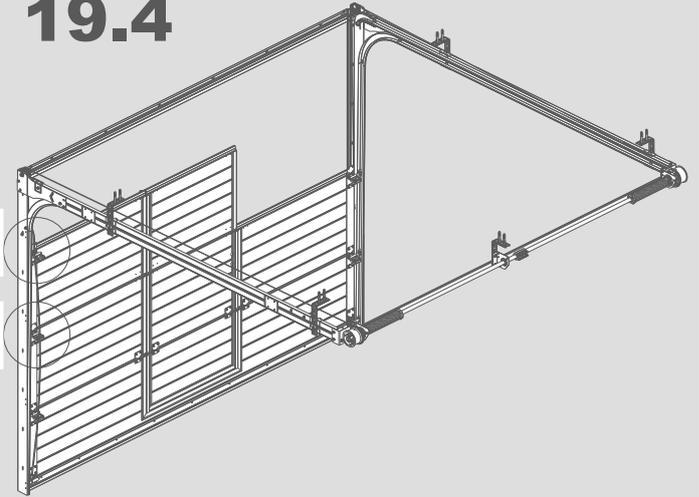
19.2.1

# 19\*

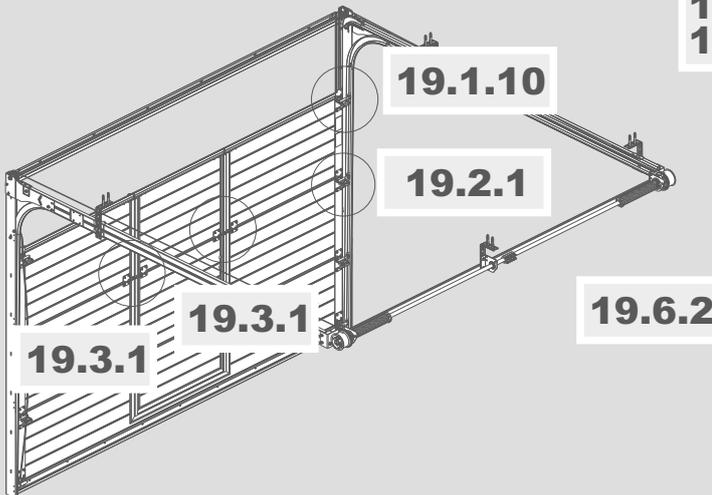
## 19.3



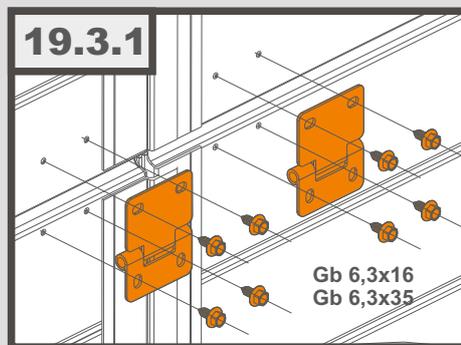
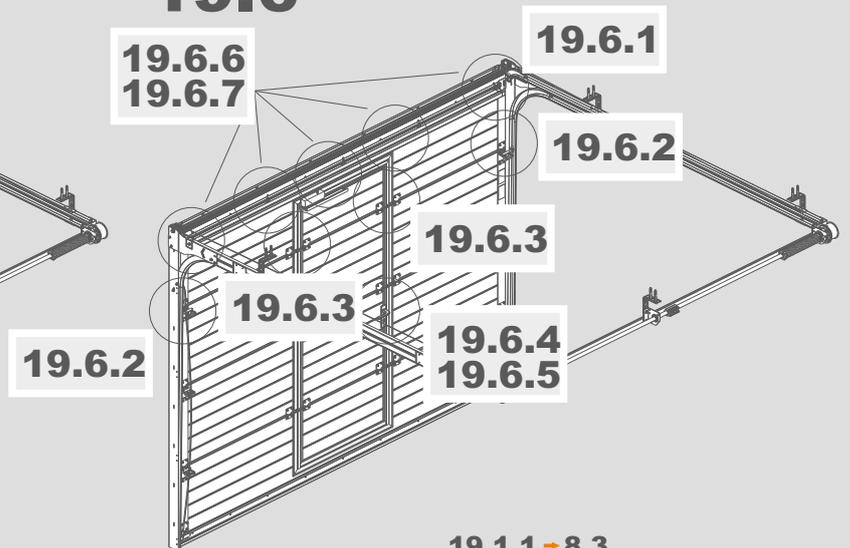
## 19.4



## 19.5



## 19.6



- 19.1.1 → 8.3
- 19.1.2 → 8.4
- 19.1.3 → 8.5
- 19.1.4 → 8.6
- 19.1.5 → 8.7
- 19.1.6 → 8.8, 8.8\*
- 19.1.7 → 8.9
- 19.1.8 → 8.10
- 19.1.9 → 8.11
- 19.1.10 → 8.12, 8.12\*
- 19.2.1 → 8.3
- 19.3.1
- 19.6.1 → 13.1
- 19.6.2 → 9.3
- 19.6.3 → 19.3.1
- 19.6.4
- 19.6.5
- 19.6.6
- 19.6.7
- 19.6.8 → 13

# 19\*

## 19.6

