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Montageanleitung Industriesektionaltore



BEDEUTUNG

GEFAHR



ACHTUNG



MERKE



ZUSÄTZLICHE INFORMATIONEN



VISUELLE BEMERKUNG



BETRIEBS- UND WARTUNGSHANDBUCH

GEFAHRZEICHEN

ELEKTRISCHE GEFAHR



BRANDGEFAHR

VERBOTSZEICHEN

RAUCHVERBOT IN DER NÄHE DER ANLAGE



SCHUTZEINRICHTUNGEN NICHT ENTFERNEN

GEBOTSZEICHEN

VOR BETRIEB UND REPARATUR STROMVERSORGUNG AUSSCHALTEN.



MONTAGE UND WARTUNGSARBEITEN NUR MIT ARBEITSHANDSCHUHEN DURCHFÜHREN.



BEI MONTAGE UND WARTUNGSARBEITEN SCHUTZSCHUHE TRAGEN.

BESCHREIBUNG, ANWEISUNGEN, BEMERKUNGEN

Dies bedeutet für den Benutzer eine Unfallgefahr, darunter die Gefahr eines tödlichen Unfalls. Ratschläge, wie man den Produktverschleiß vermeidet.

Schlüsselfunktionen oder brauchbare Informationen. Es ist die größte Aufmerksamkeit auf Informationen zu richten, die mit diesem Symbol versehen sind.

Zusätzliche Informationen.

Der Leser soll sich nach den visuellen Bemerkungen richten.

Dieses Symbol kann auch in der Betriebsanweisung auftreten.

Verweis auf den entsprechenden Punkt im „Betriebs- und Wartungshandbuch“.

Allgemeine Montagehinweise

1. Die Montage ist durch ein geschultes Montageteam mit entsprechenden Qualifikationen durchzuführen,
2. Es sind die geltenden Arbeitsschutzvorschriften zu beachten. Eine besondere Aufmerksamkeit ist auf die Arbeitssicherheit sowohl bei der Arbeit mit elektrischen Geräten als auch in der Höhe zu richten,
3. Das Montagegelände ist entsprechend zu markieren und zu sichern,
4. Der Montagegrund soll folgende Eigenschaften besitzen:
 - bei Frost - trockene und ebene Oberfläche mit entsprechender Festigkeit, hergestellt gemäß den geltenden Bauvorschriften,
 - bei Metallkonstruktionen - ordnungsgemäße Konstruktion und Festigkeit.
5. Zur Montage werden, abhängig vom Material, folgende Elemente verwendet:
 - bei Stahlbeton oder Vollziegel - Spreizdübel $\varnothing 14$ mm x 100 mm (für Stützen der Welle), Spreizdübel $\varnothing 10$ mm x 55 mm (für Führungsleisten),
 - bei Stahlkonstruktionen - Schrauben M8 (für Stützen der Welle), Schrauben M6 (für Führungsleisten) oder selbstbohrende Schrauben $\varnothing 6,3$ mm (die Wände der Stahlkonstruktion sollen eine Dicke von mindestens 3 mm haben).
 - bei Wänden aus Hohlmaterialien - entsprechende Montagesysteme, die für diese Materialart bestimmt sind,
 - bei anderen Materialien (Hochlochziegel, Gasbeton usw.) - Dübel für Hochlochziegel und Gasbeton, z. B. Typ Fischer SX
6. Bei der Montage von Federn und Seitenstützen ist besondere Vorsicht zu üben (sehr große Verdrehkräfte)
7. Es sind den Montagearbeiten zugeordnete Informations- und Warnzeichen zu beachten.
8. Nach der Montage, Überprüfung und eventueller Korrektur der Toreinstellung ist eine Benutzerschulung im Bereich Produktbedienung durchzuführen.
9. In Räumen, in denen die Tore montiert wurden, ist für die ordnungsgemäße Be- und Entlüftung zu sorgen. Sonst ist das Tor korrosionsgefährdet.
10. Das Tor ist durch geeignete Maßnahmen gegen aggressive, korrosiv wirkende Mittel (die z.B. in Ziegeln oder im Mörtel enthalten sein können) zu schützen.
11. Bei Toren, die in Waschanlagen montiert werden, sind an Stellen, an denen der Korrosionsschutz u.U. unterbrochen wurde, geeignete Schutzmaßnahmen zu treffen.

Montagewerkzeuge:

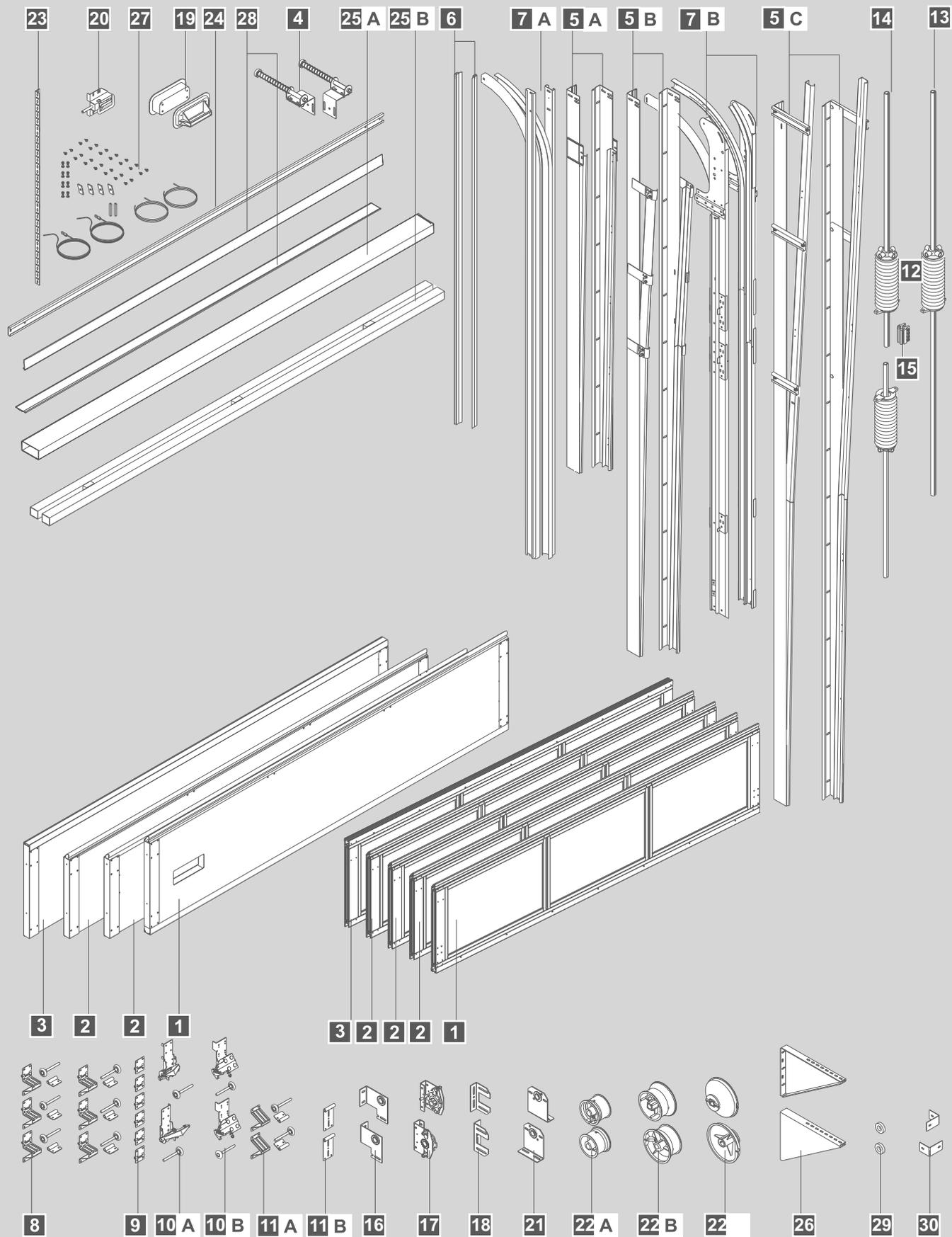
- Schlagbohrmaschine
- Metallbohrmaschine
- Schrauber mit regulierbarer Eindrehkraft
- Kantenschleifmaschine / Metallsäge
- Stahlstäbe $\varnothing 16$ mm (zum Aufspannen von Federn)
- Metallbohrer $\varnothing 5,0$ mm und $\varnothing 6,8$ mm
- Betonbohrer $\varnothing 10$ mm und $\varnothing 14$ mm
- Schlüssel mit Schlüsselweiten: 10; 13; 14; 15; 17
- Innensechskantschlüssel 4 mm; 5 mm; 6 mm
- Entsprechende Leiter/ Gerüst
- Hammer
- Maßstab
- Bleistift
- Wasserwaage

Reinigungswerkzeuge

Handkehrer, Schaufel, Staubsauger

ACHTUNG

Das Tor K2 IS, K2 IP, K2 IM darf erst nach endgültigem Abschluss der Montage benutzt werden!
Der Montageplatz ist sauber zu halten und nach Beendigung der Montage sorgfältig aufzuräumen



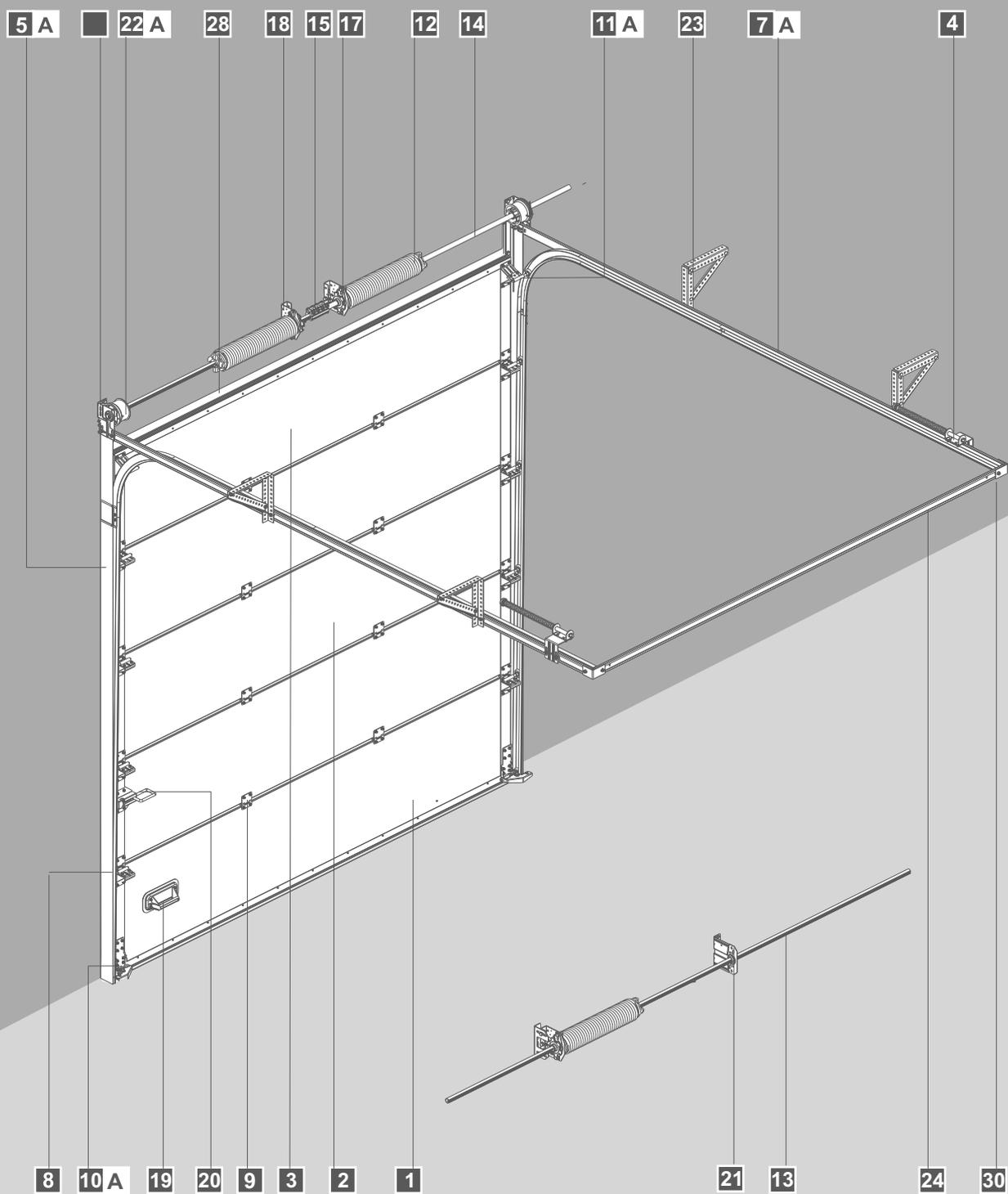
1	Untersekktion mit Beschlag	15	Verbindungsstück der Welle
2	Mittelsektionen mit Beschlag	16	Seitenstützen
3	Obersekktion mit Beschlag	17	Mittelstützen mit Schutzeinrichtungen
4	Türpuffer	18	Mittlere Abstandsstützen
5 A	Vertikale Winkel NP/LHR/LHRF/FTR/FLH	19	Zweiseitiger Halter
5 B	Vertikale Winkel HL/HL-K/FHL	20	Sperrriegel
5 C	Vertikale Winkel VL/VL-K	21	Mittelstützen
6	Dichtungen für vertikale Führungsleisten	22 A	Trommeln NP/FLH/LHR/LHRF/FTR
7 A	Horizontale Führungsleisten NP/HL/HL-K/FTR/ FHL	22 B	Trommeln HL/HL-K/FHL
7 B	Horizontale Führungsleisten LHR/LHRF/ FLH	22 C	Trommeln VL/VL-K
8	Seitenbänder	23	Lochwinkel
9	Mittelbänder	24	Montage-Querstück
10 A	Unterbänder NP/HL/HL-K/VL/VL-K/FHL/FTR	25 A	Konsolebalken
10 B	Unterbänder LHR/LHRF/ FLH/ NP/HL/HL-K/ VL/ VL-K/FHL/FTR	25 B	Konsolebalken
11 A	Oberbänder NP/HL/HL-K/VL/VL-K/FHL/FTR	26	Konsolen HL-K/VL-K
11 B	Oberbänder LHR/LHRF/ FLH	27	Seile, Schrauben, Schaftschrauben, Muttern, Unterlagen, Einlagen, Keile
12	Rechte Feder	28	Ober- und Unterdichtung
13	Welle	29	Wellenringe
14	Geteilte Welle	30	Montagewinkel



D

NP

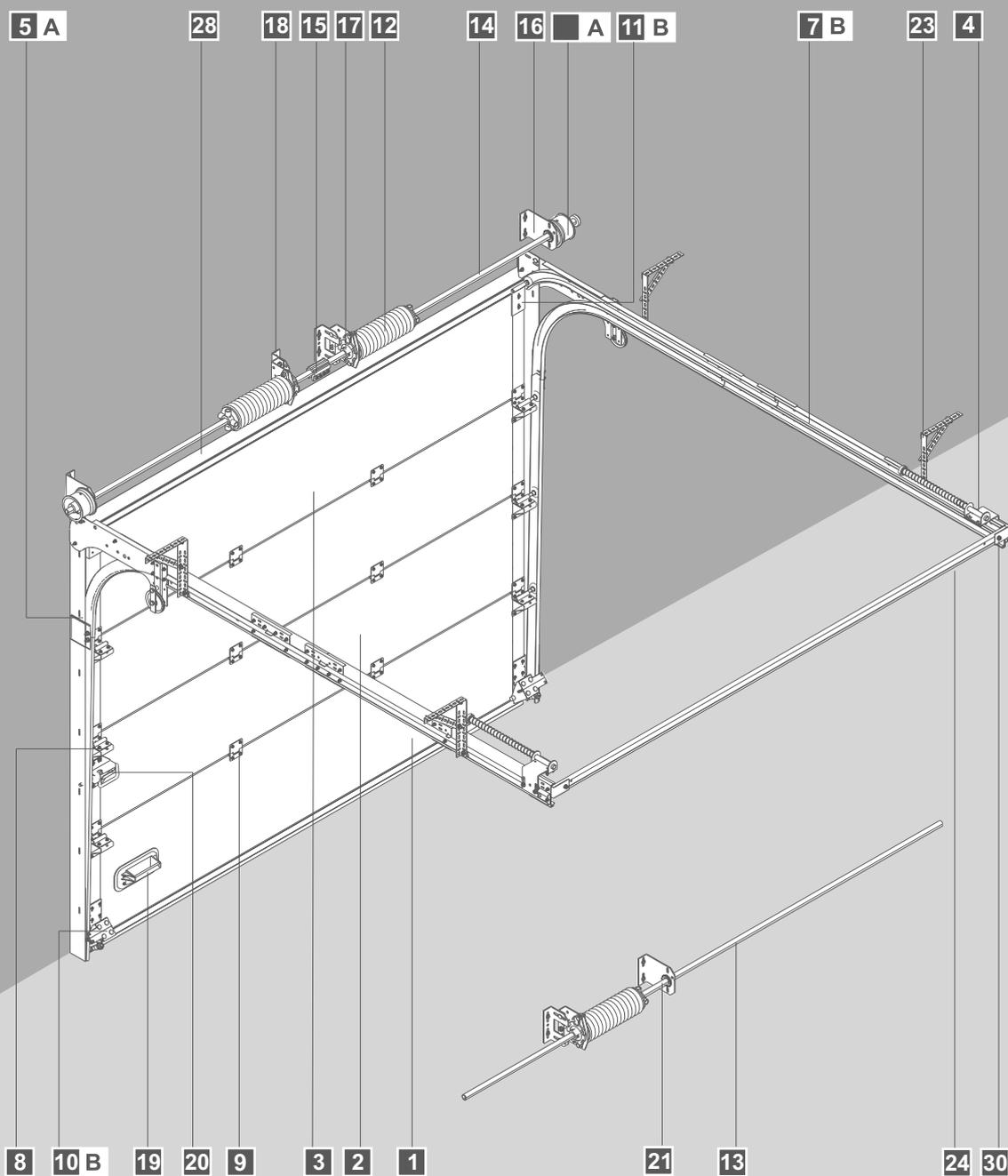
Standard



LHRF

niedrig

mit vorne liegender Federwelle



LHR

niedrig

mit hinten liegender
Federwelle

5 A

28

11 B

23

7 B

4

8

10 B

19

20

9

3

2

1

22 A

24

15

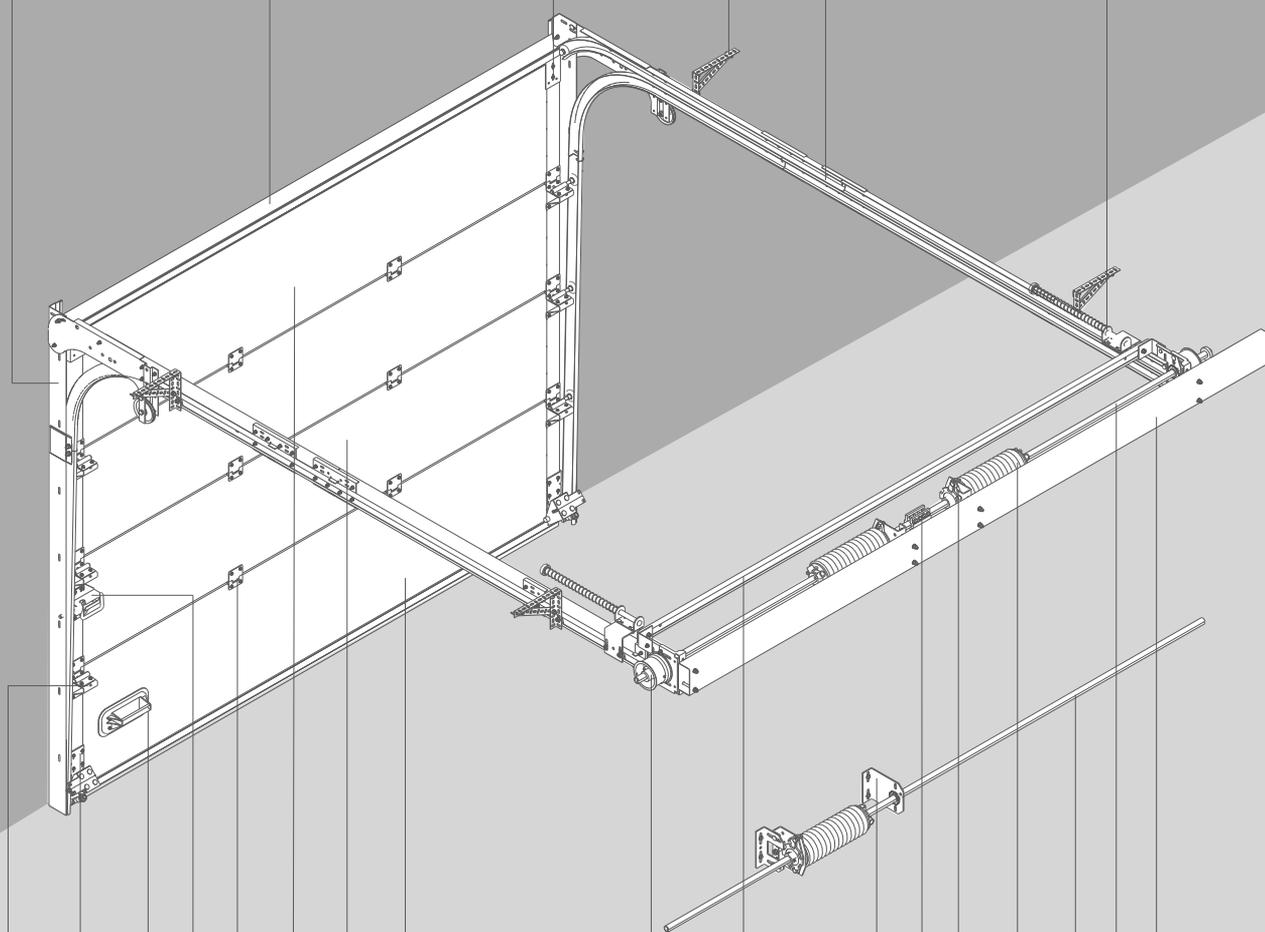
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12

13

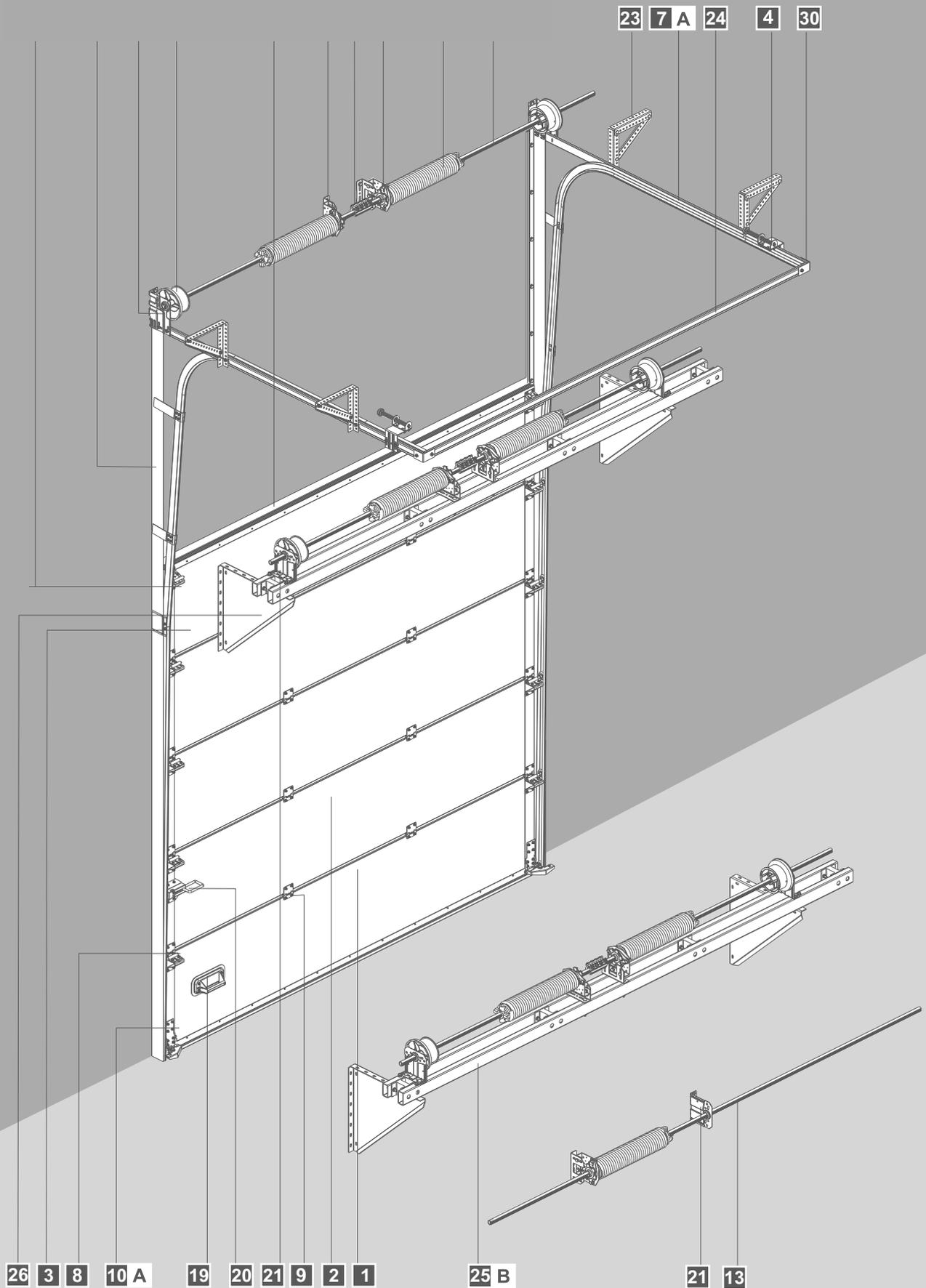
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25 A



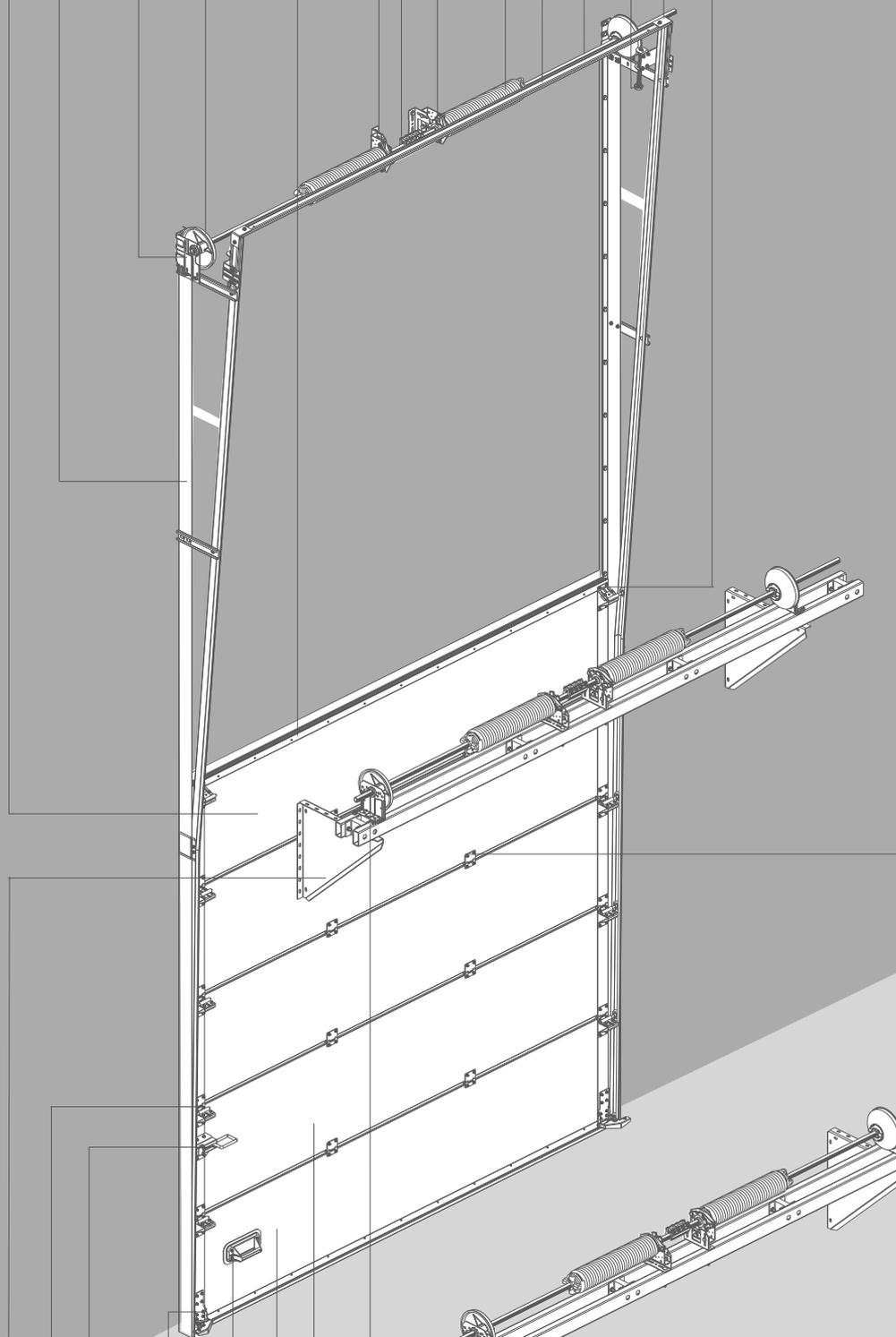
HL, HL-K

hoch mit Hebung auf Konsole



VL, VL-K vertikal auf Konsole

3 5 C 16 22 C 28 18 15 17 12 24 14 4 30 A 9



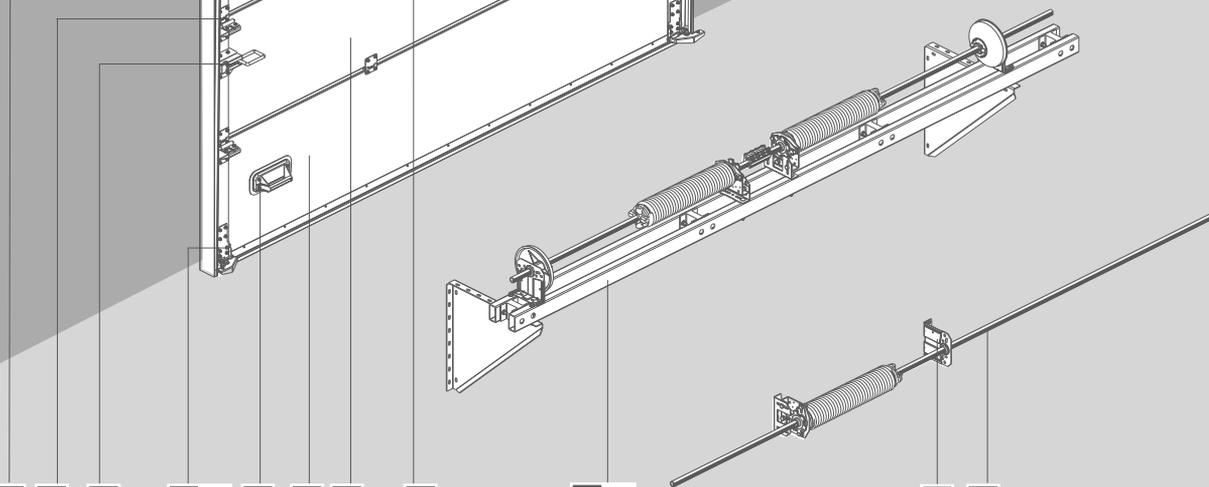
26 8 20

10 A 19 1 2

21

25 B

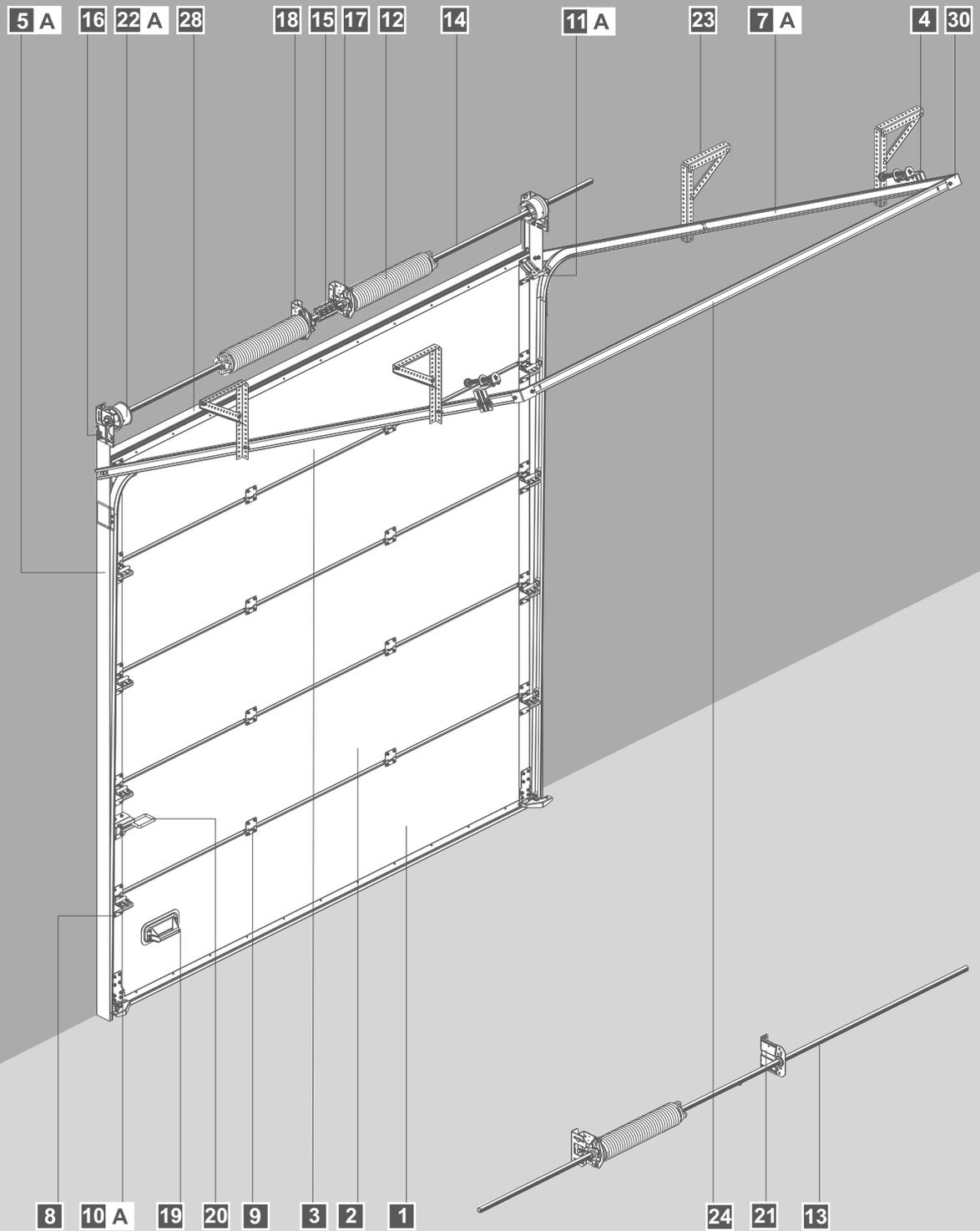
21 13



FTR

normal

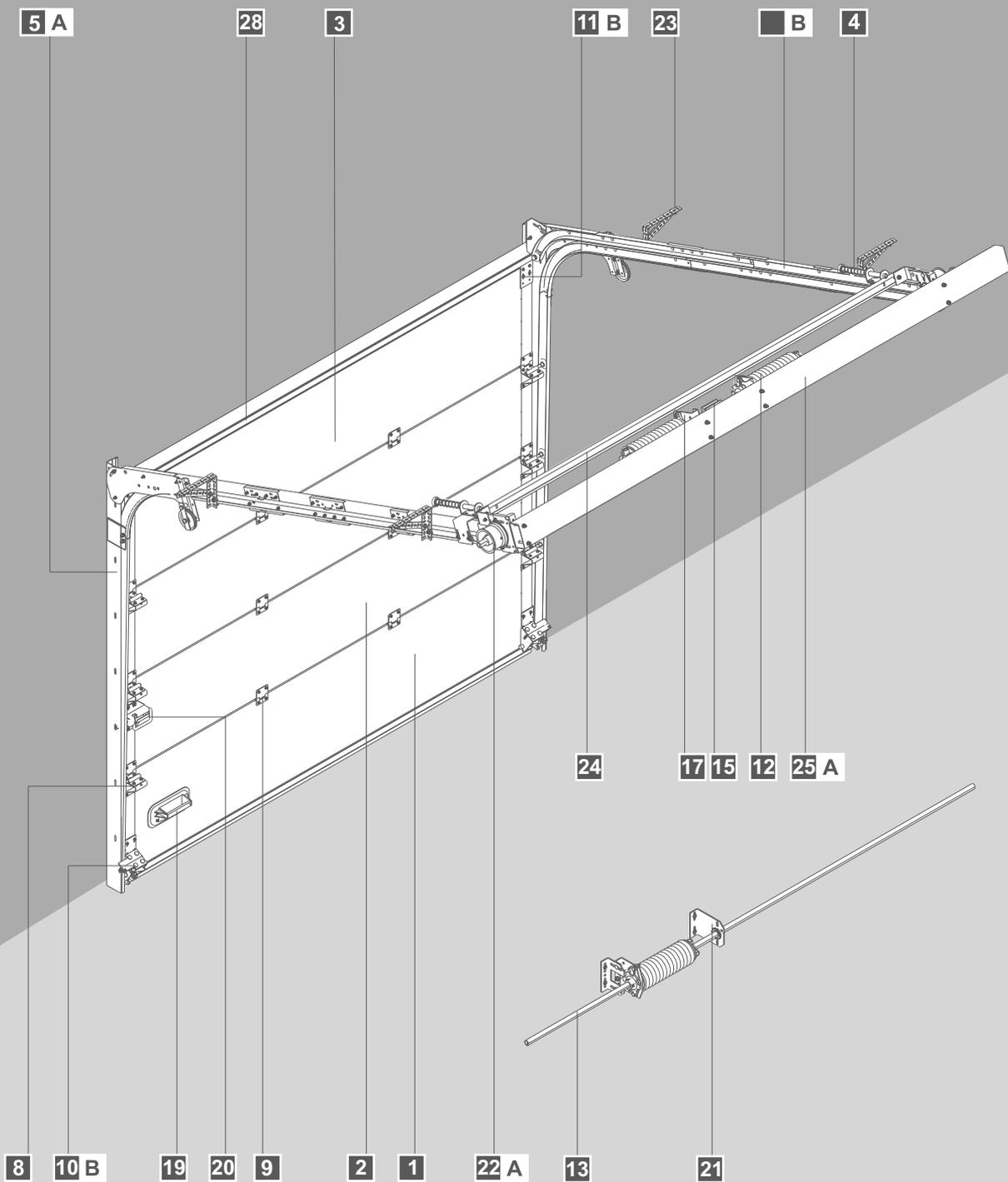
Dachfolgebeslag



FLH

niedrig

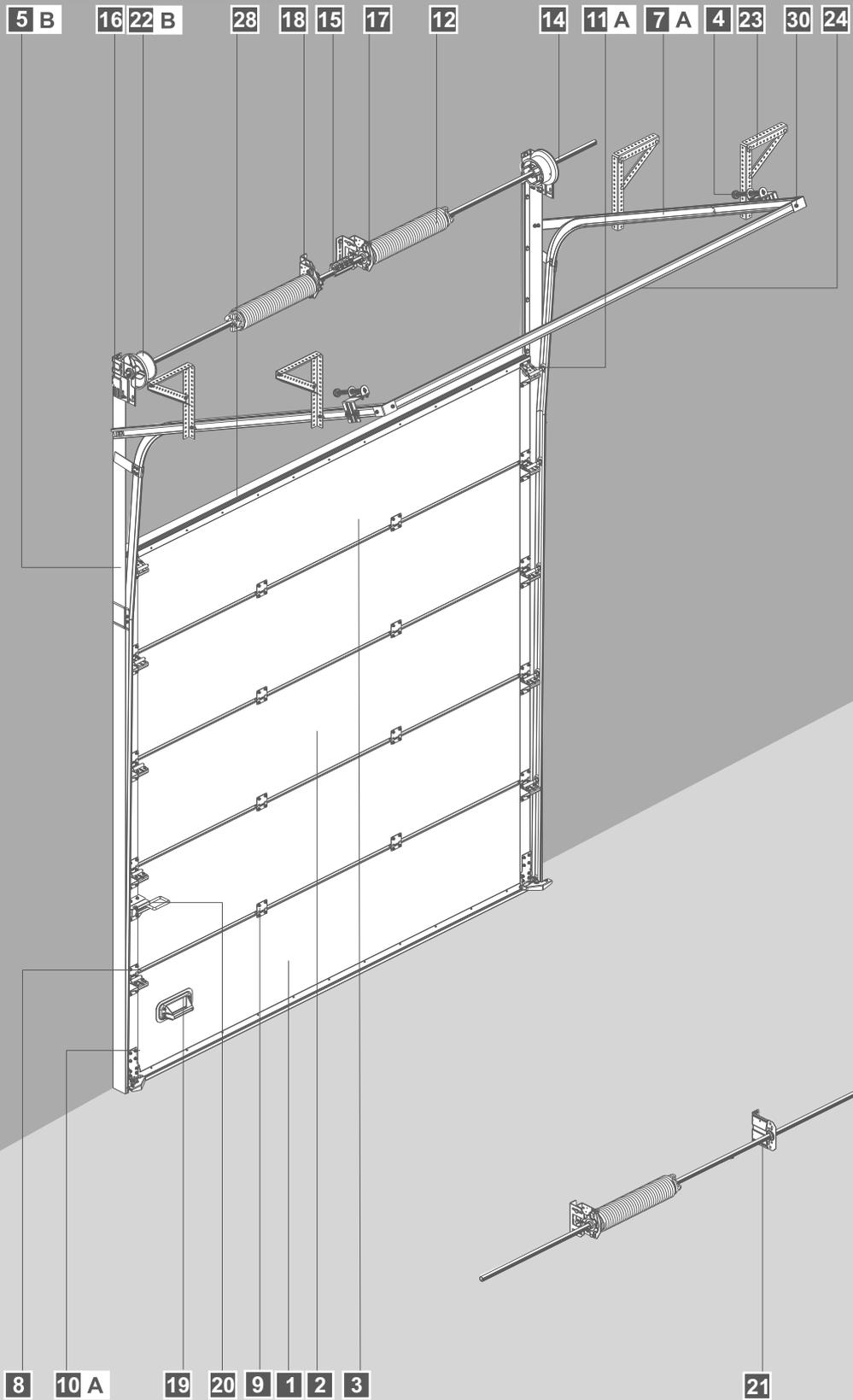
Dachfolgebeklag



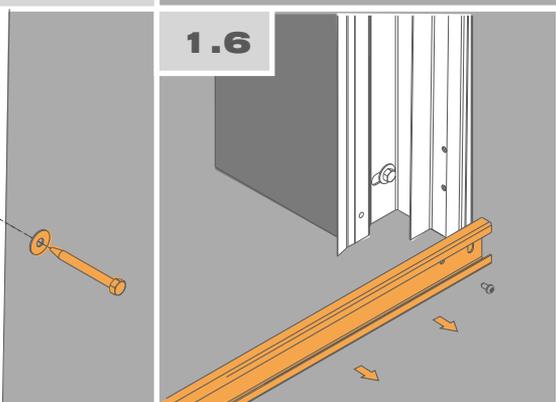
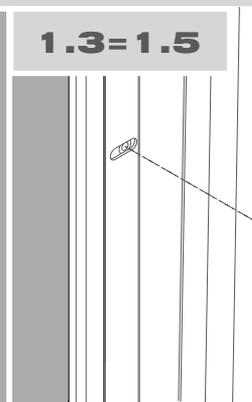
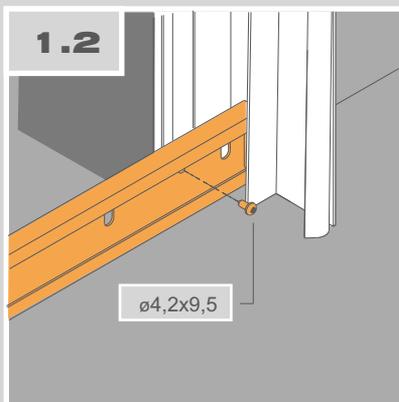
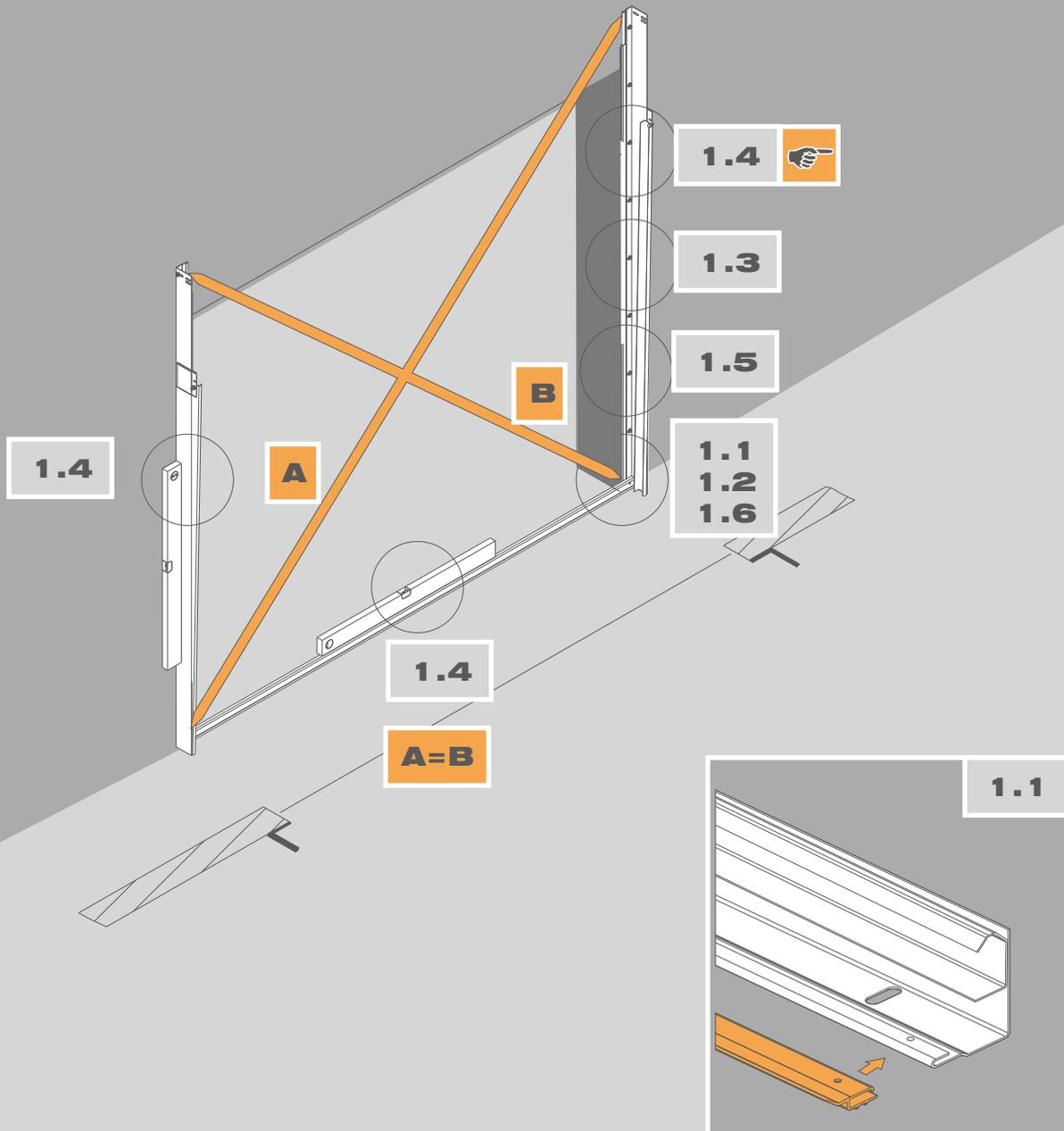
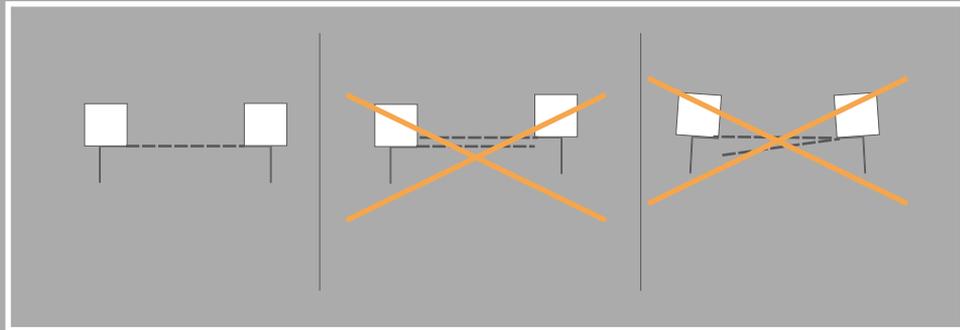
FHL

hoch mit Hebung

Dachfolgebekannt



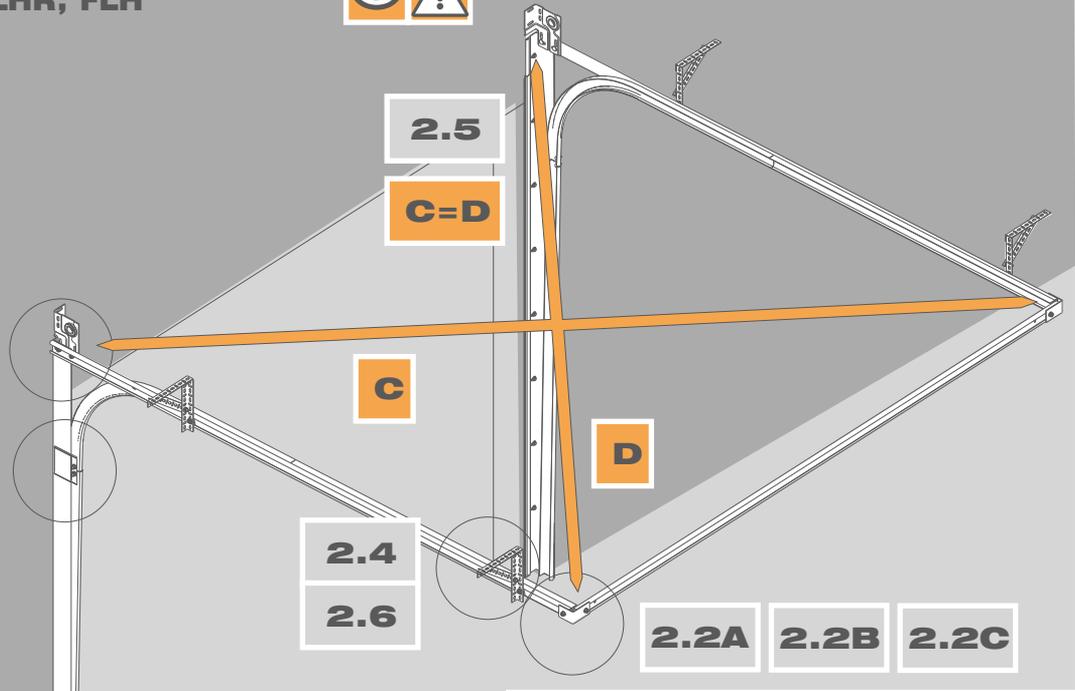
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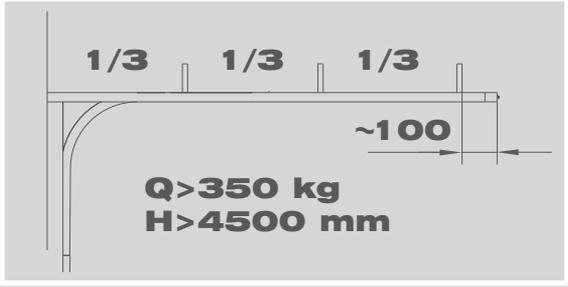
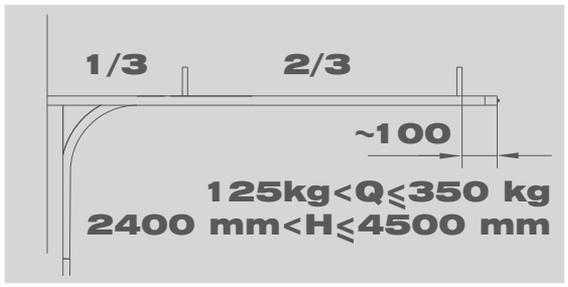
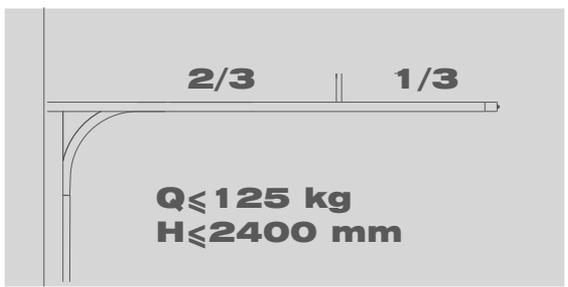
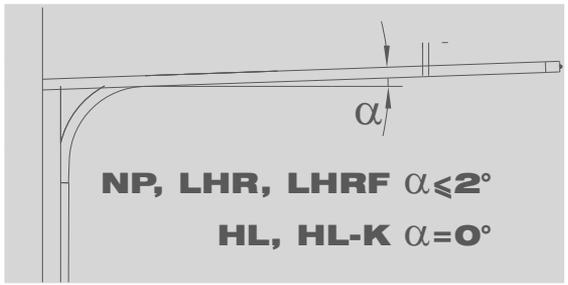
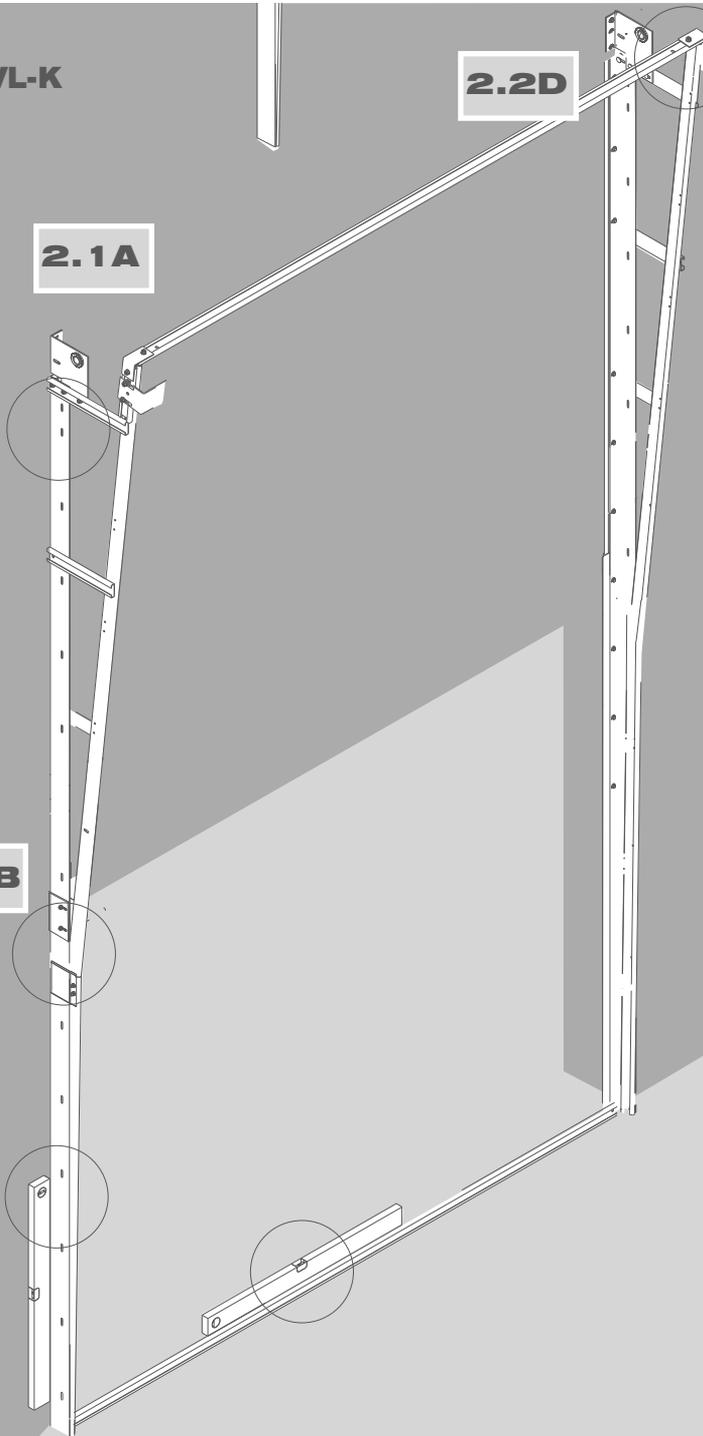
2 NP, HL, HL-K, FTR, FHL, LHRF, LHR, FLH



- 2.1A
- 2.1B
- 2.7A
- 2.7B
- 2.3A

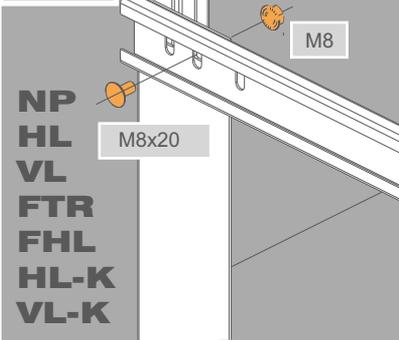


VL, VL-K

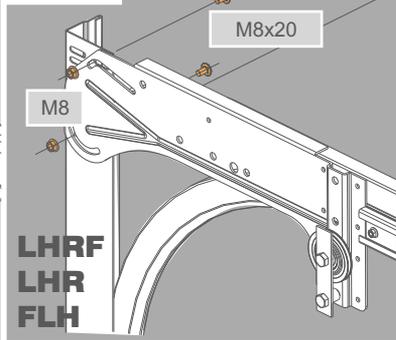


2 NP, HL, HL-K, FTR, FHL, VL, VL-K, LHRF, LHR, FLH

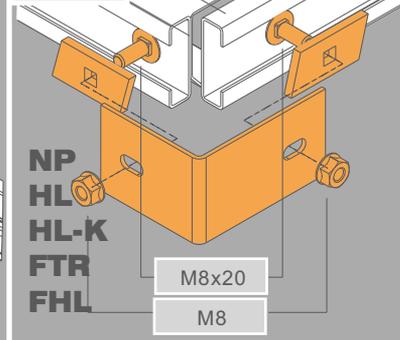
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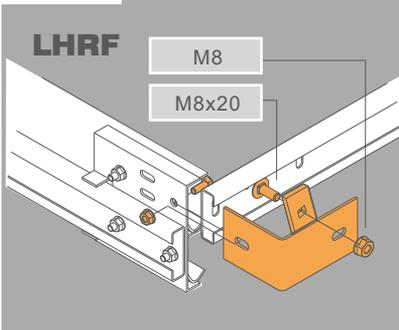
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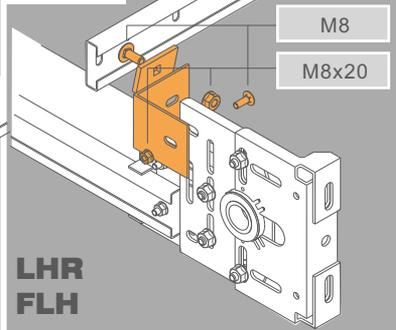
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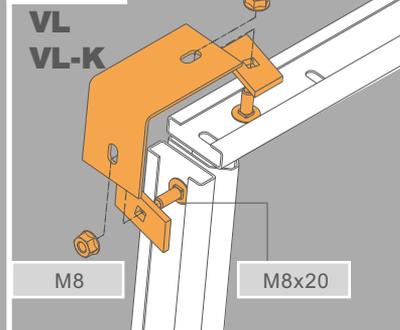
2.2B



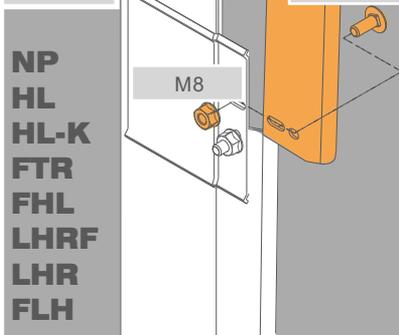
2.2C



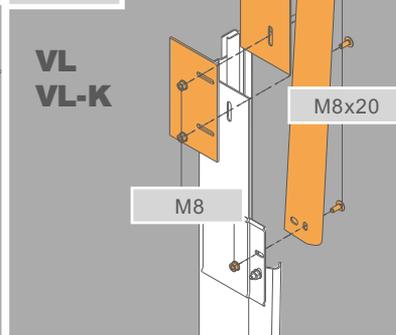
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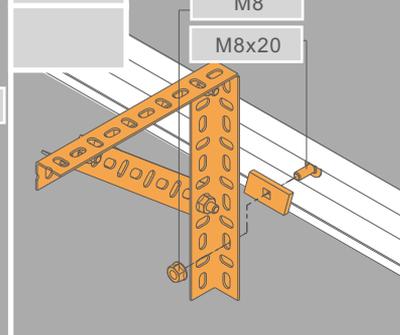
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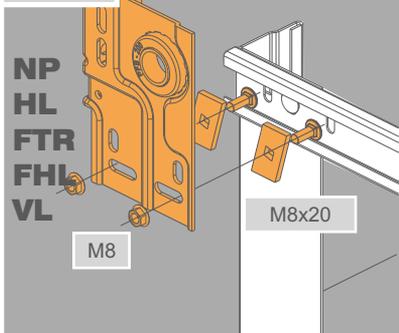
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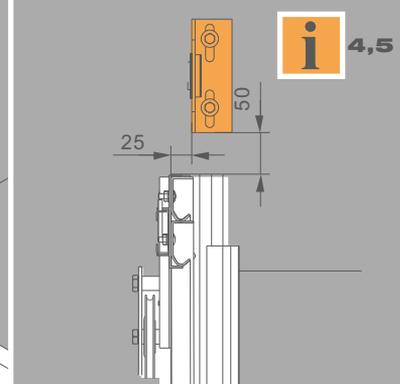
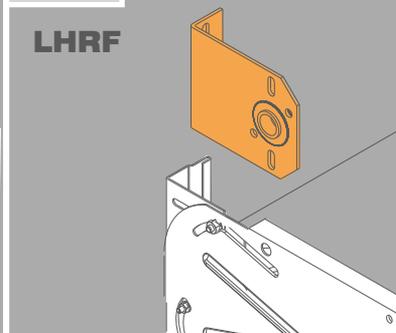
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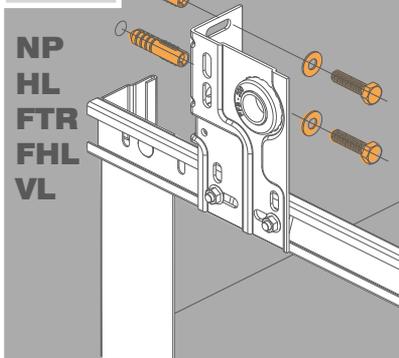
2.7A



2.7B

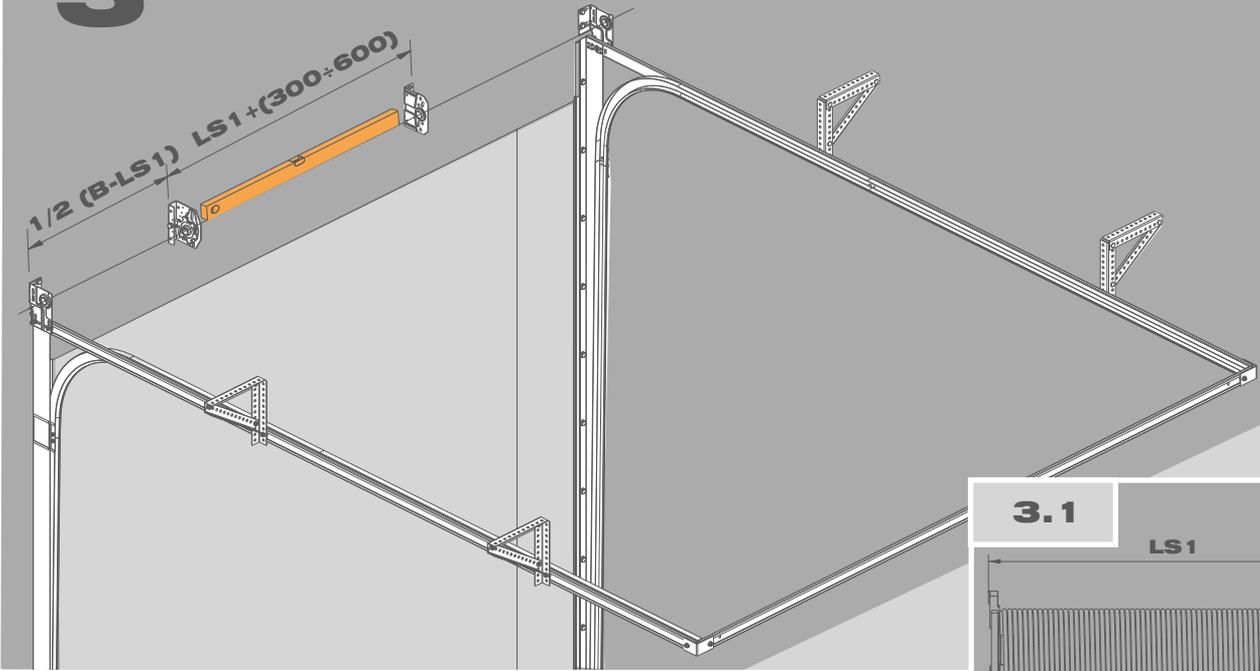


2.8A

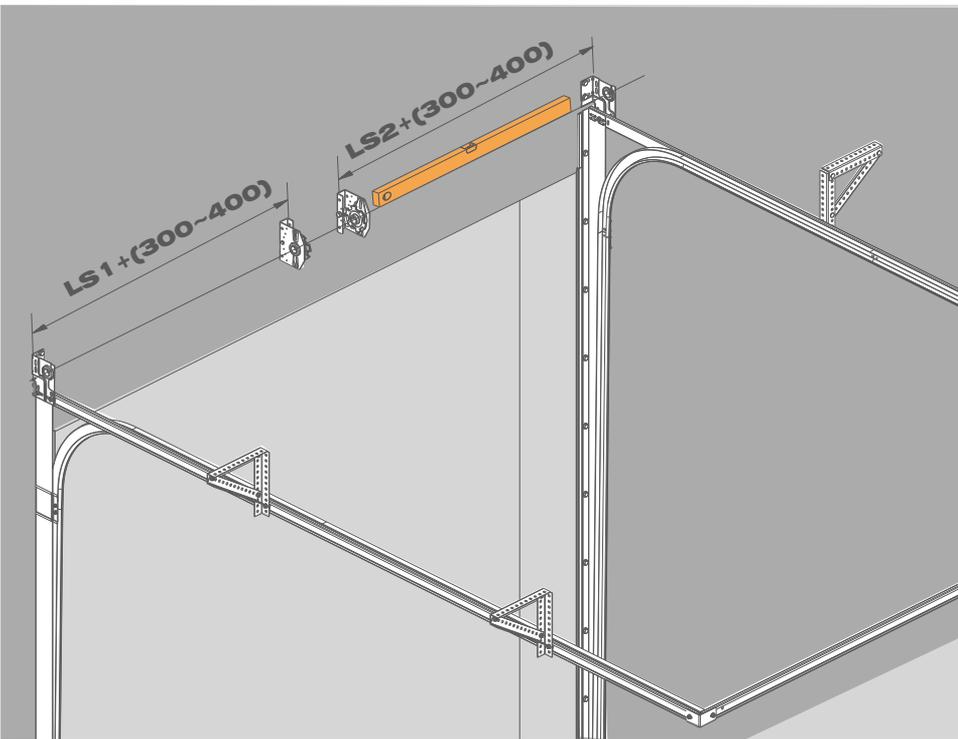
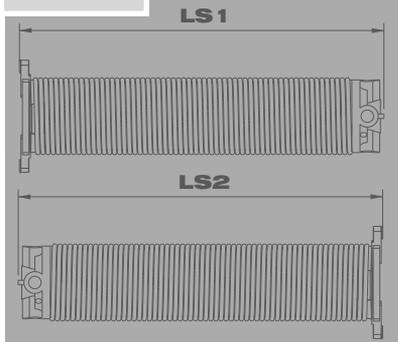


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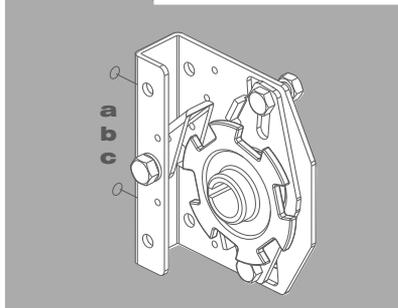
NP, HL, FTR, FHL



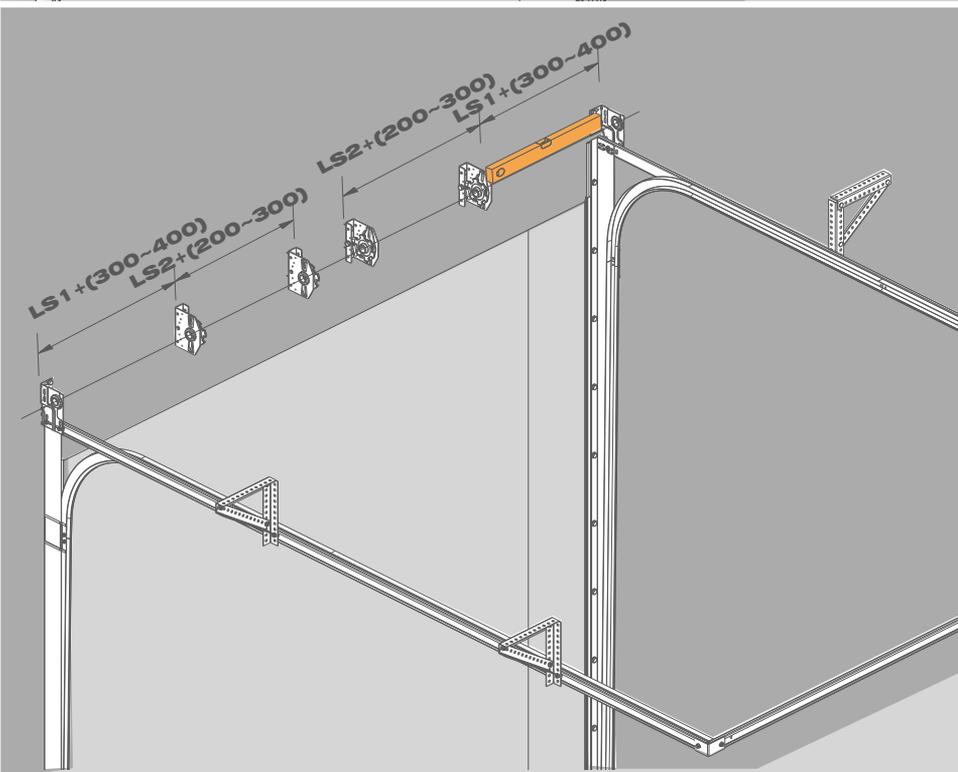
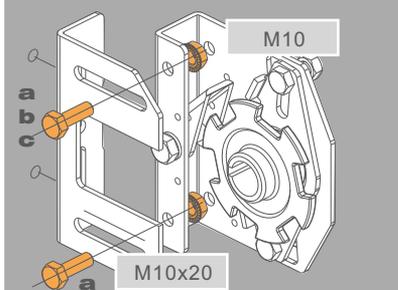
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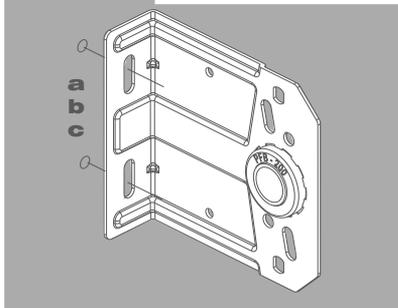
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3.2B



3.3



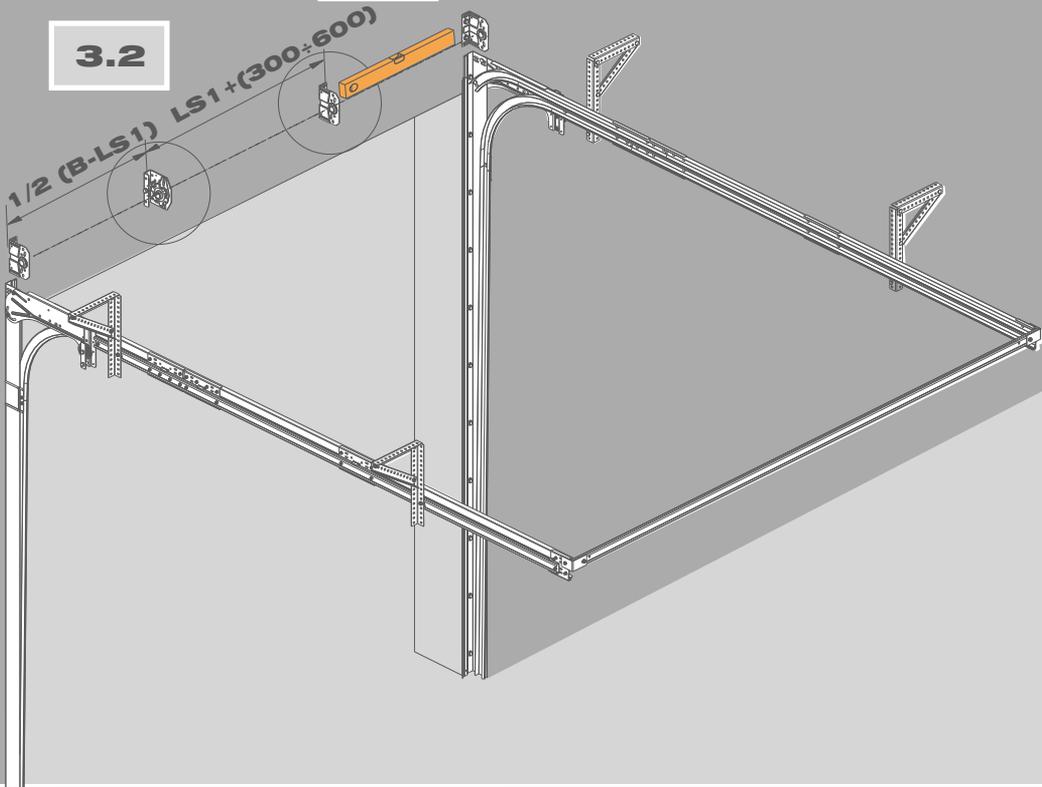
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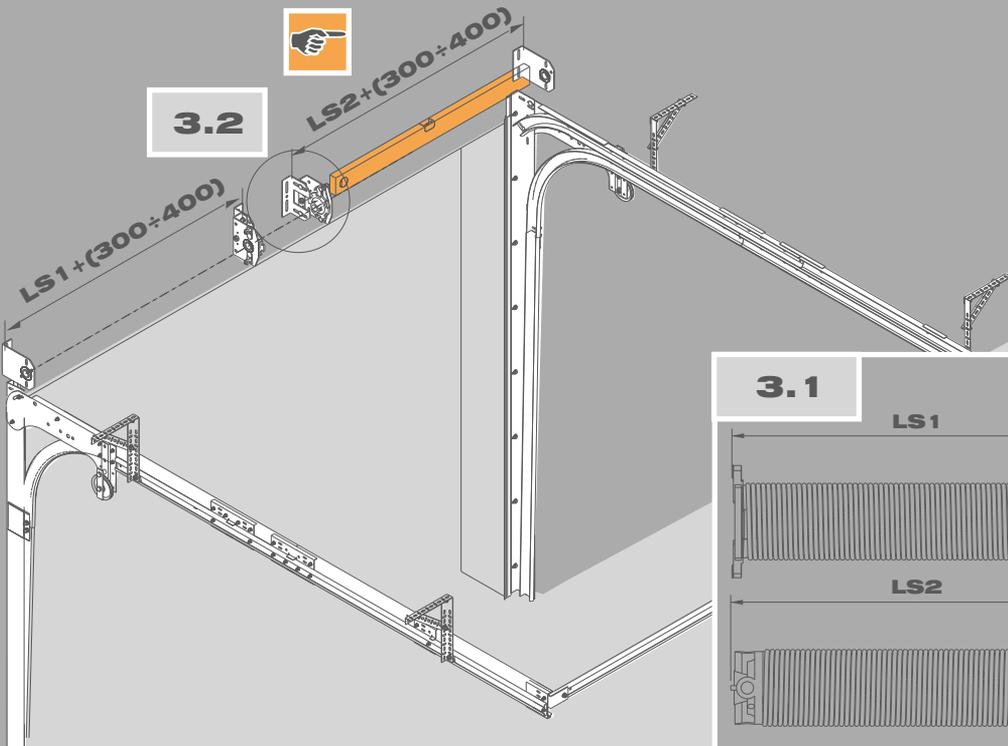
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LHRF

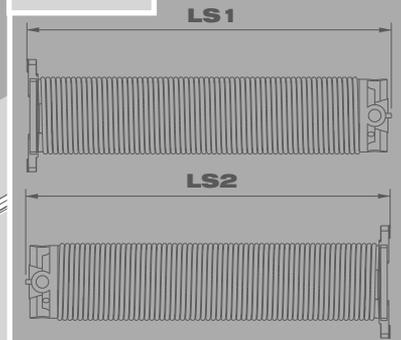
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3.2



3.1



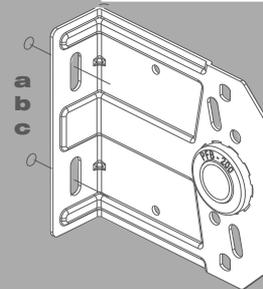
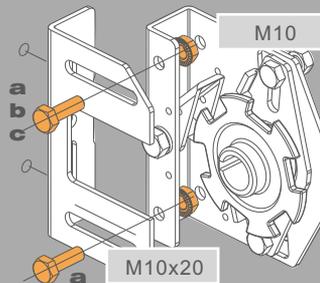
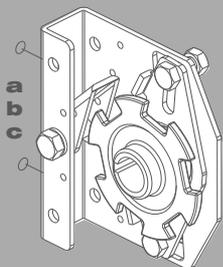
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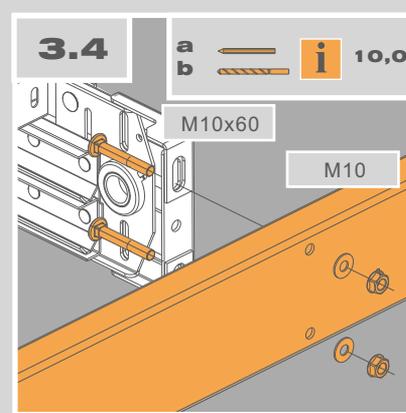
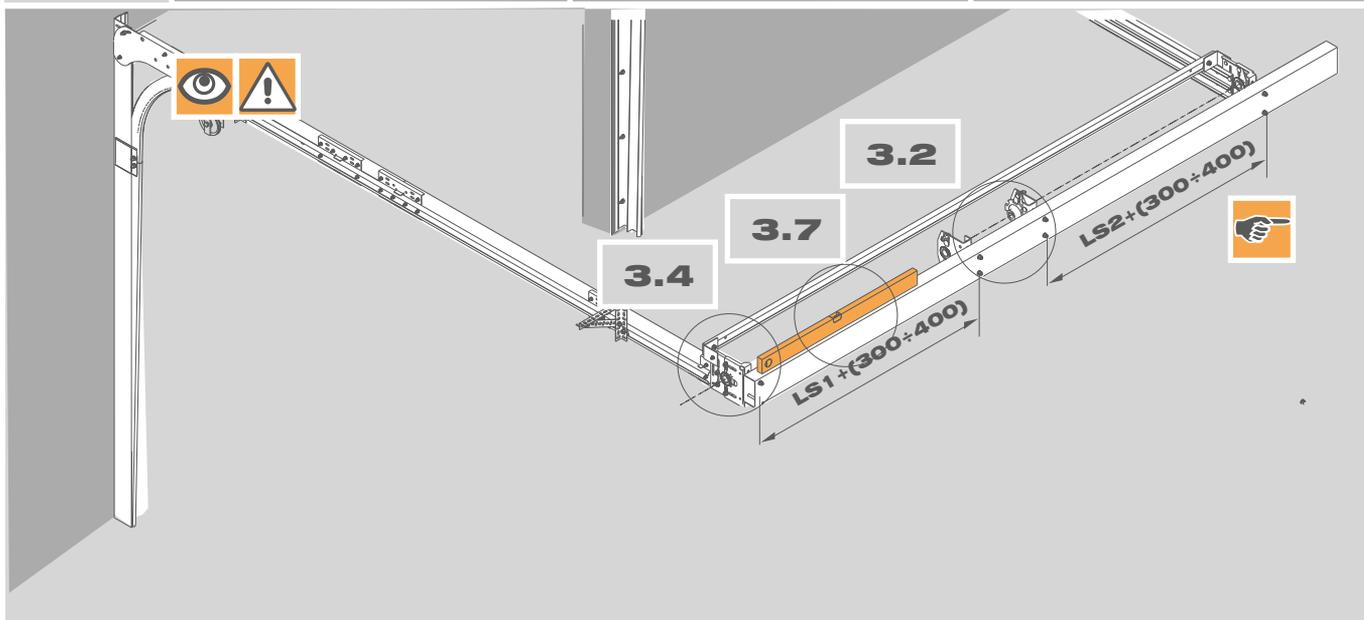
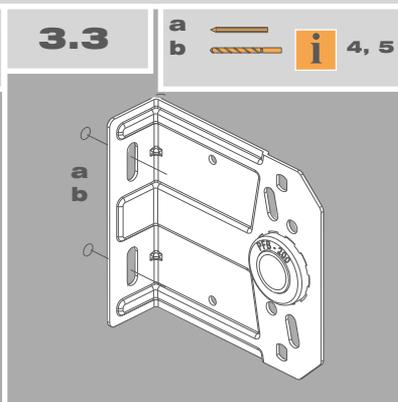
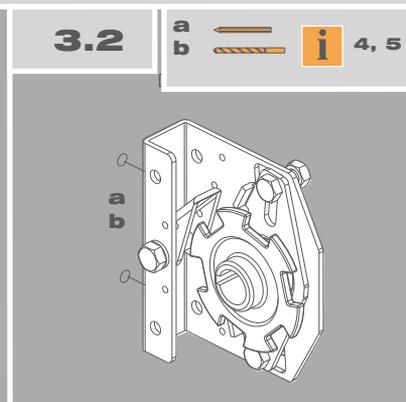
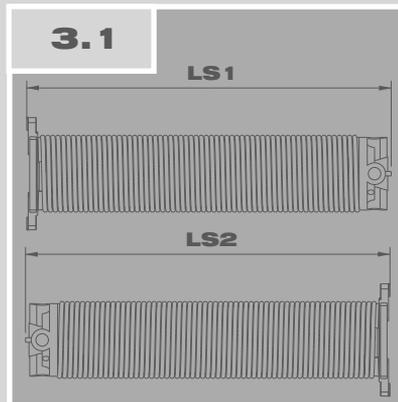
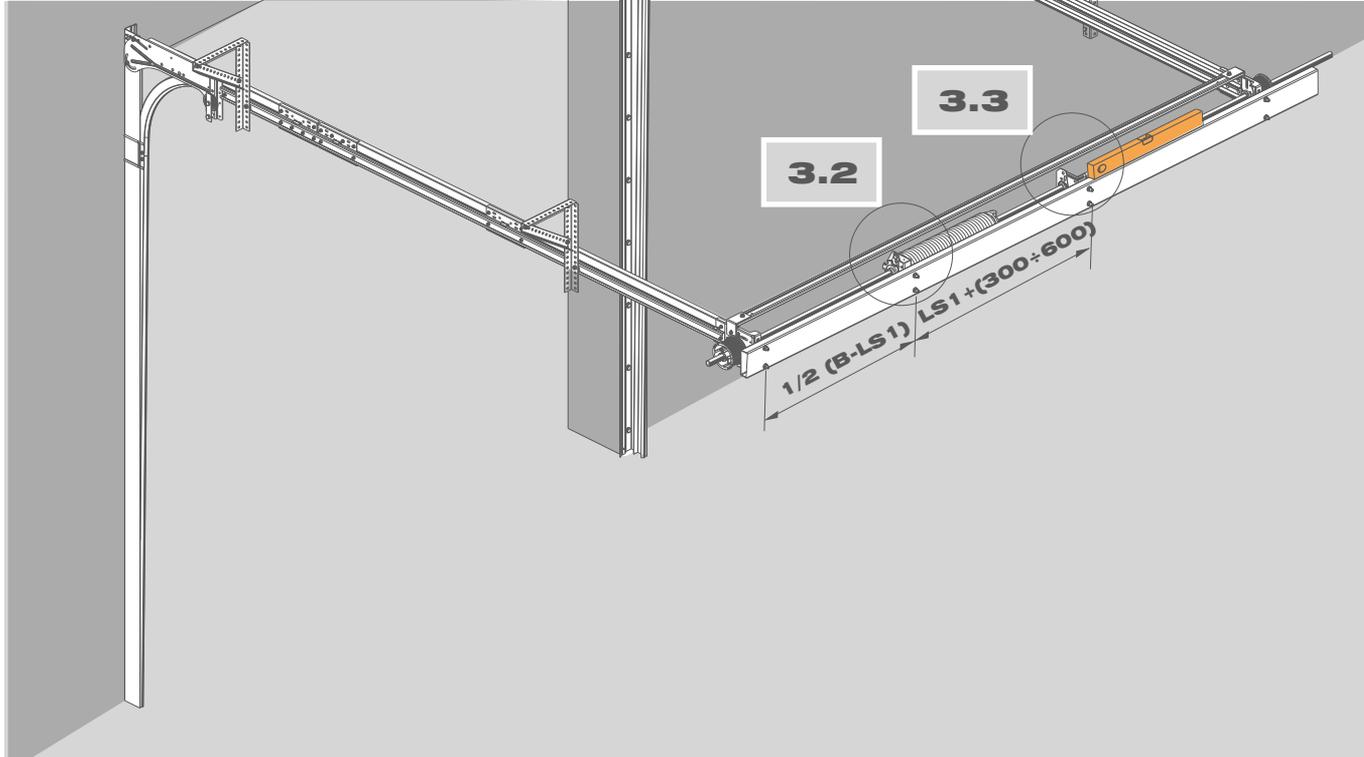


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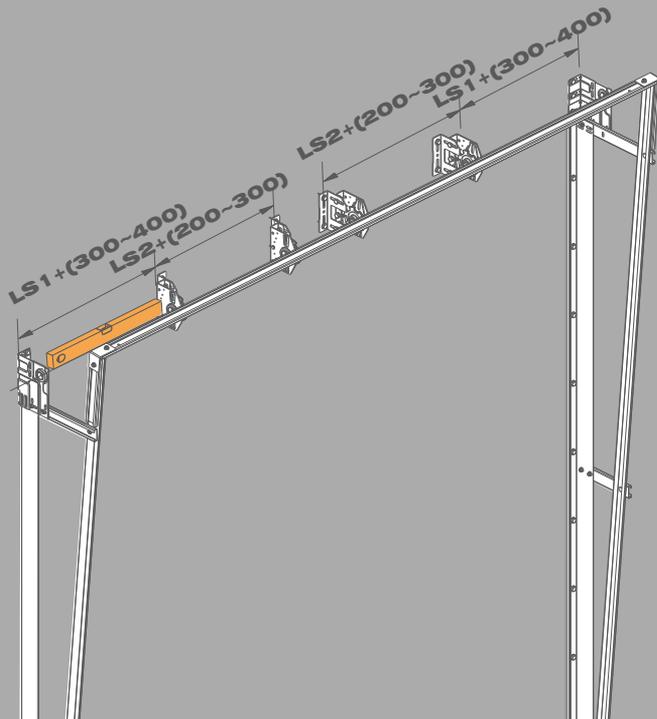
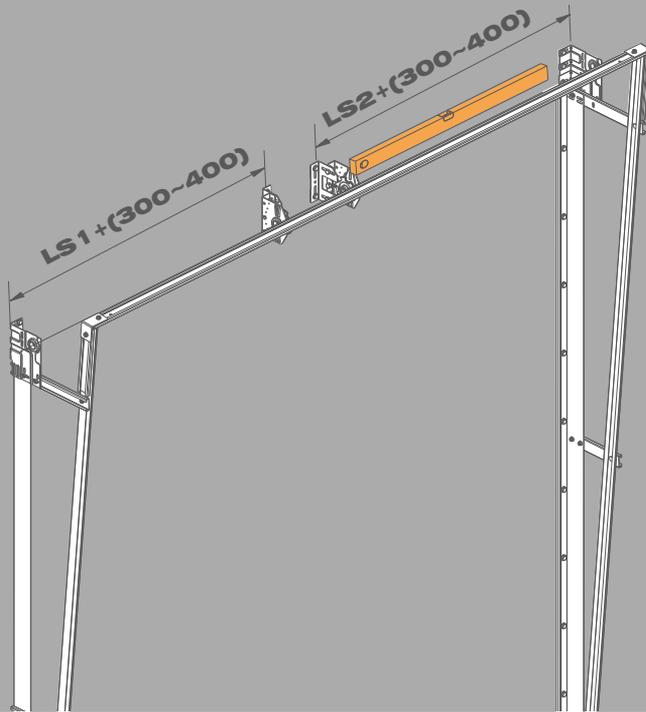
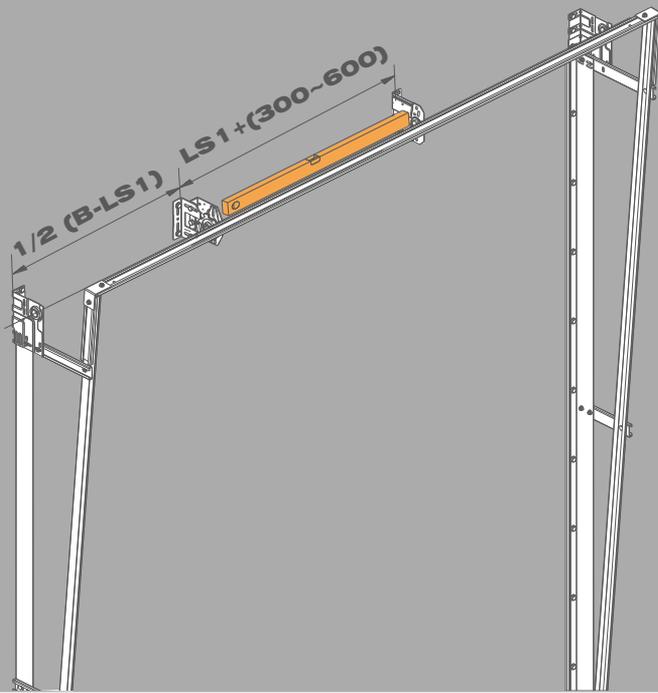


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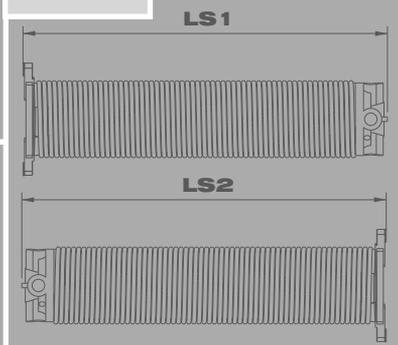




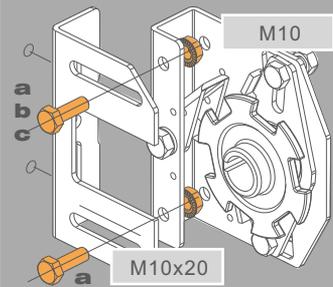
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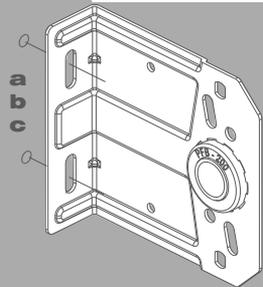
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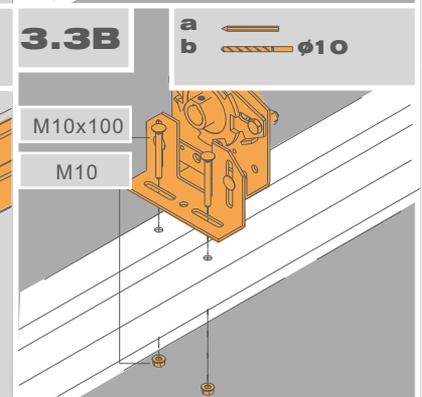
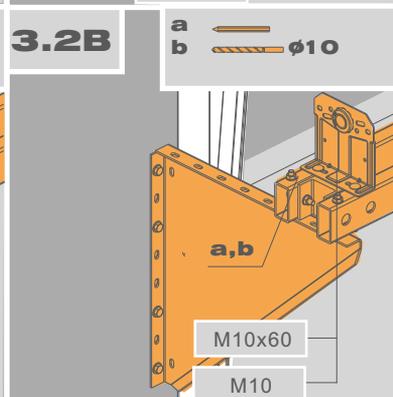
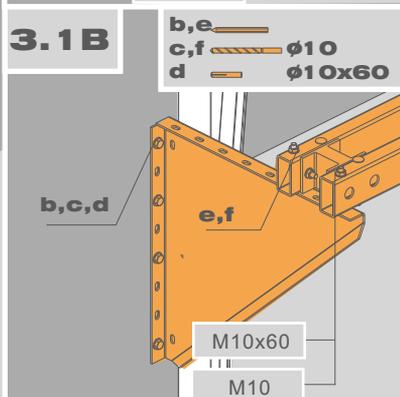
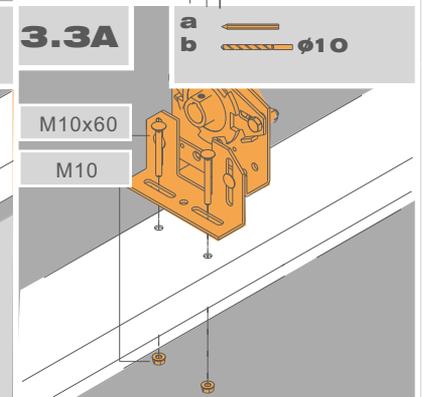
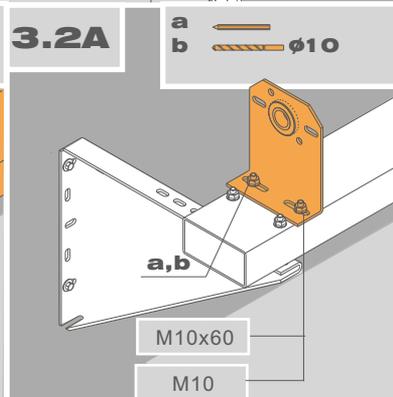
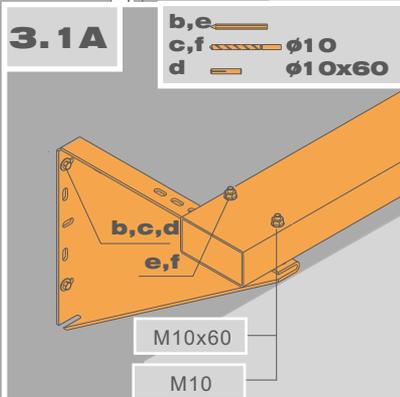
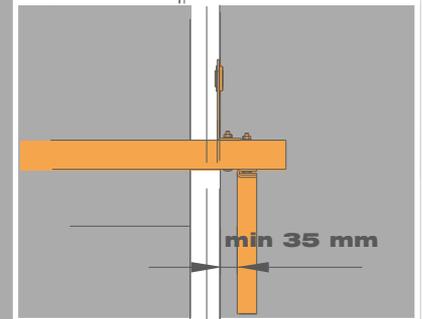
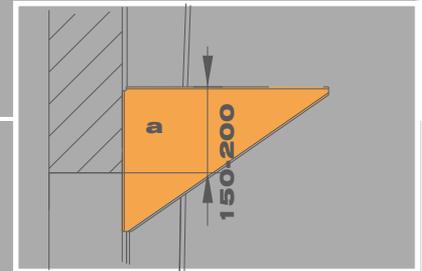
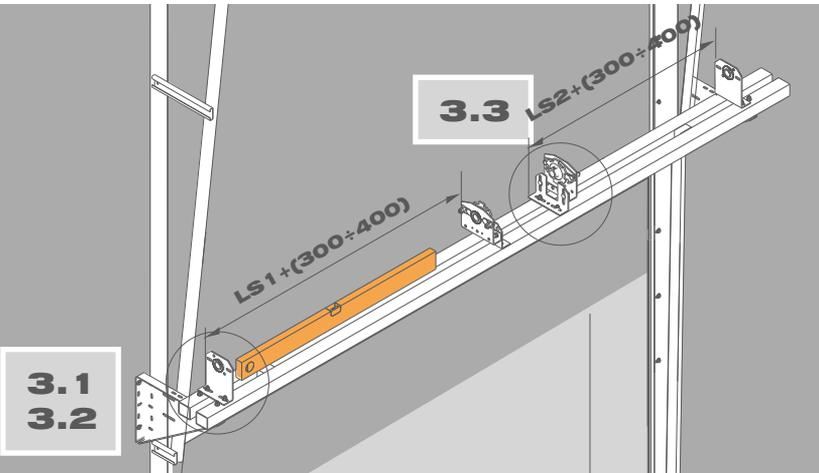
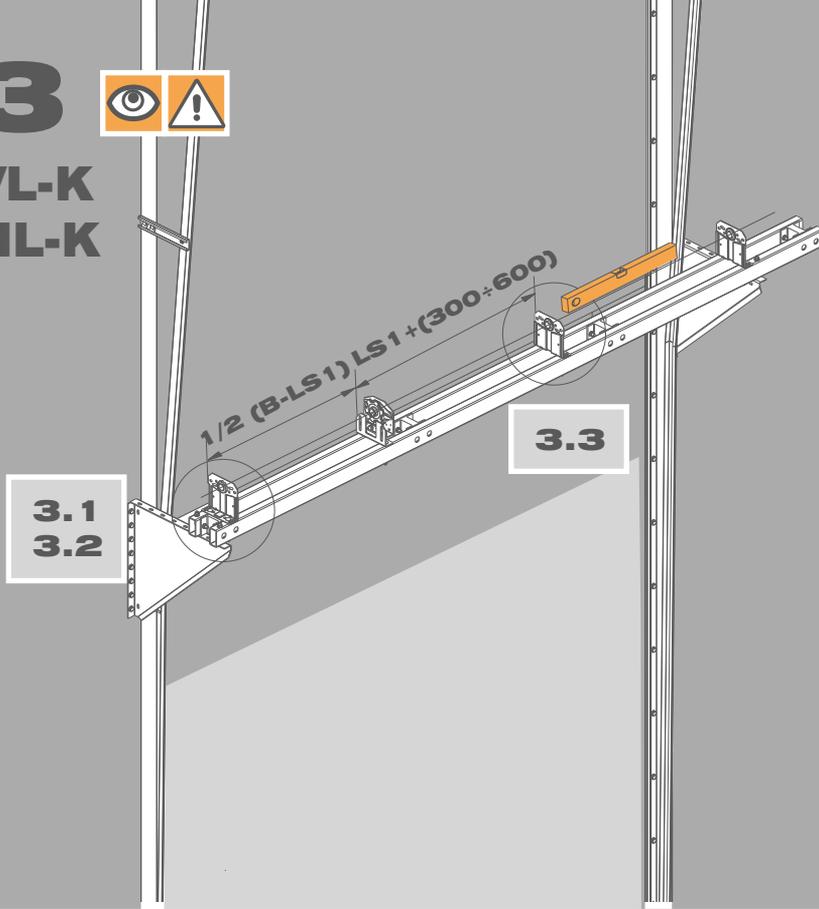
3.3



3

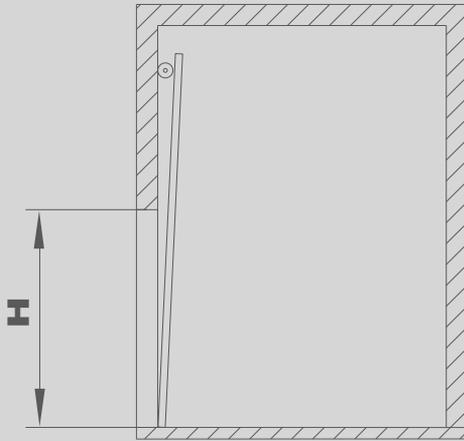


VL-K
HL-K

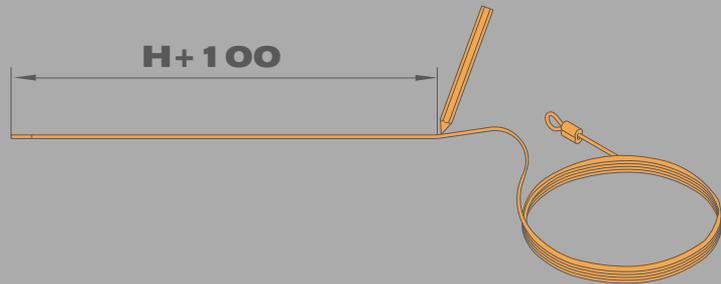


4

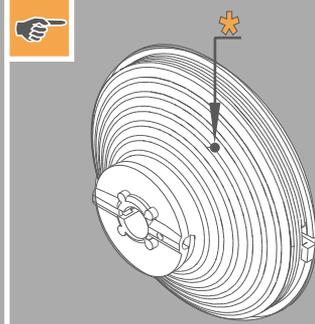
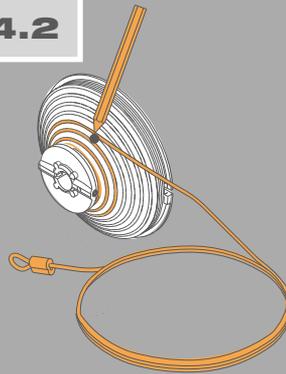
VL / VL-K



4.1

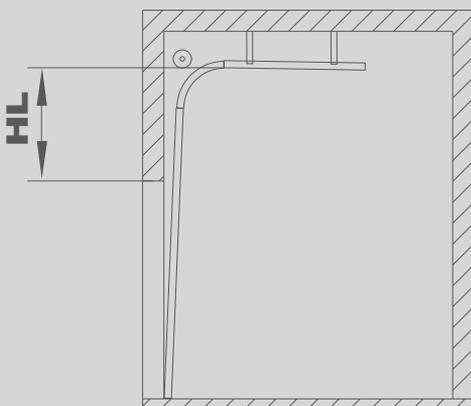


4.2

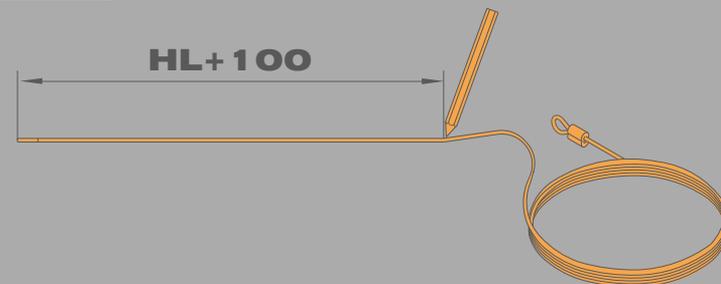


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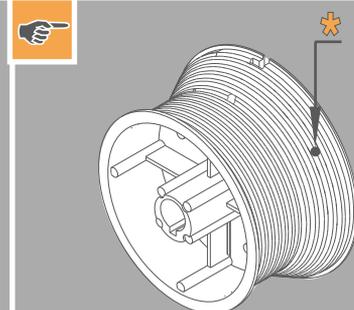
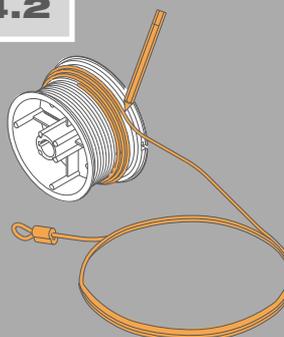
HL / HL-K



4.1

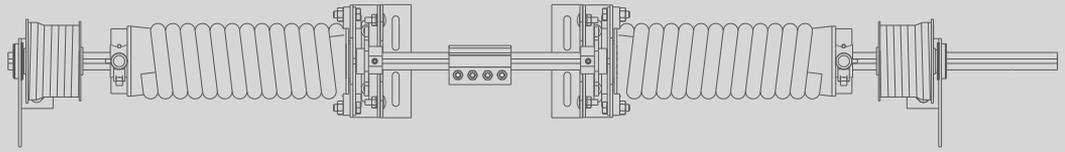


4.2

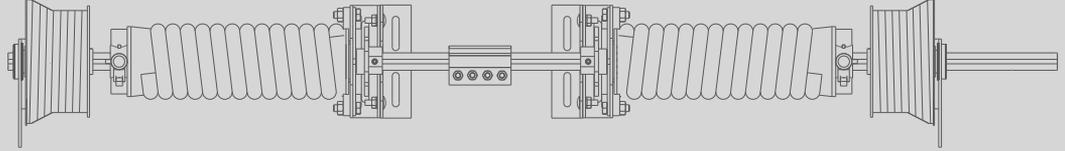


5

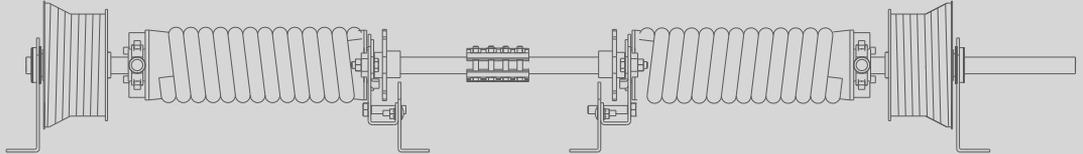
NP
FTR



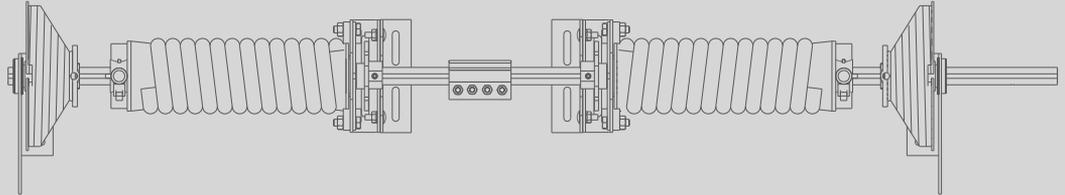
HL
FHL



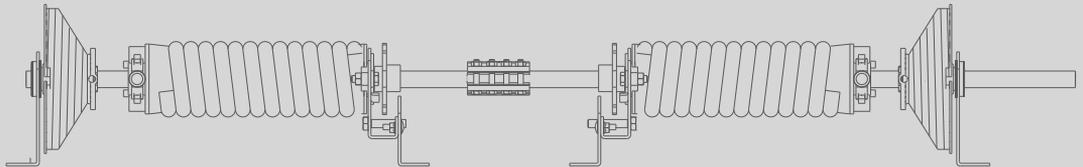
HL-K



VL



VL-K



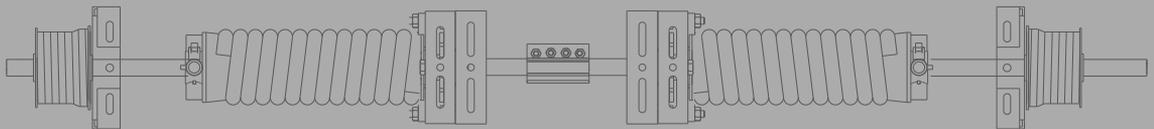
L

VR

VL

R

LHR
FLH



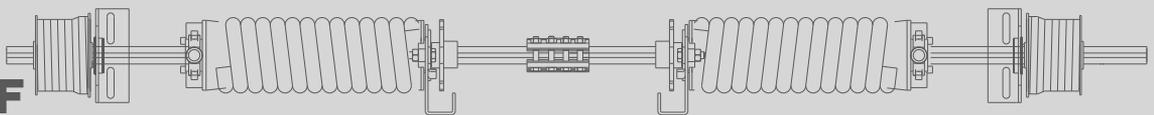
L

VL

VR

R

LHRF



R

VR

VL

L

VR

L

VL

R

rot

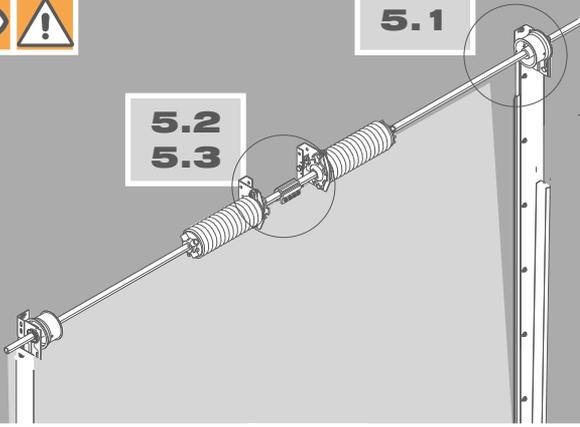
schwarz

5



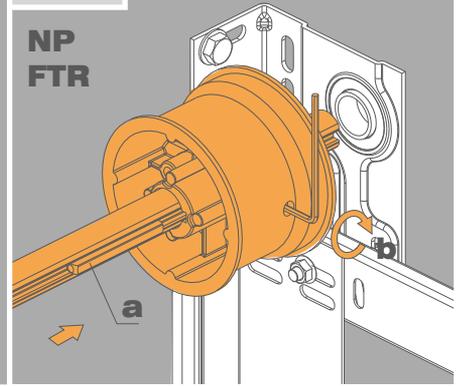
5.1

5.2 5.3



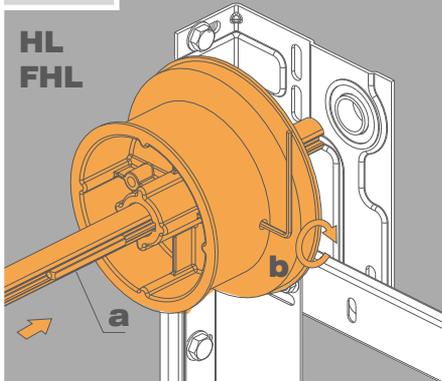
5.1A

NP
FTR



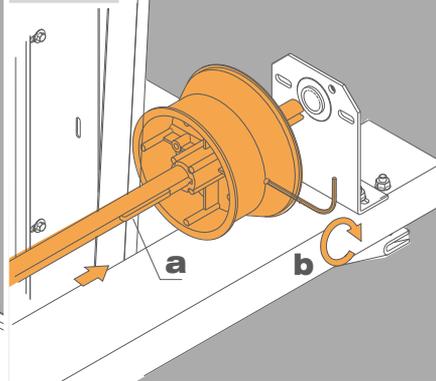
5.1B

HL
FHL



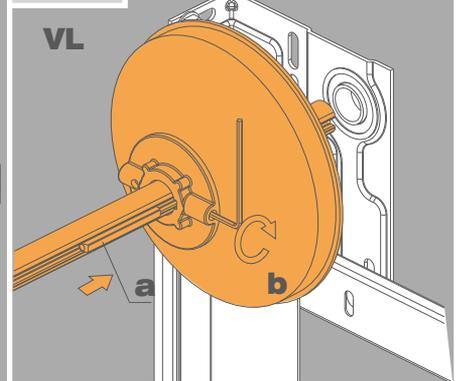
5.1C

HL-K



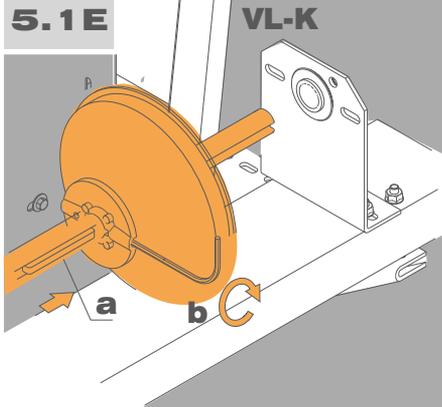
5.1D

VL



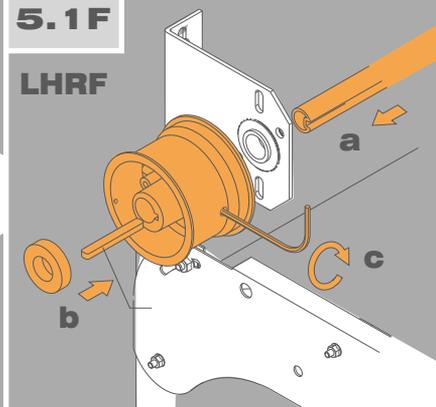
5.1E

VL-K



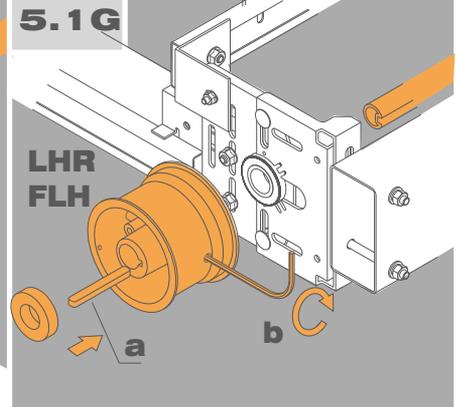
5.1F

LHRF

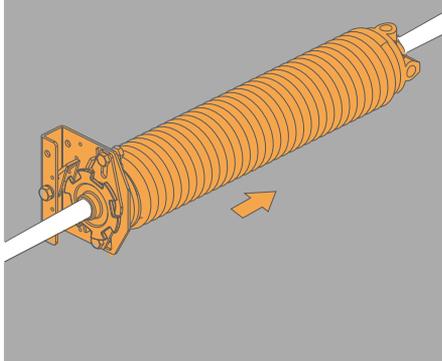


5.1G

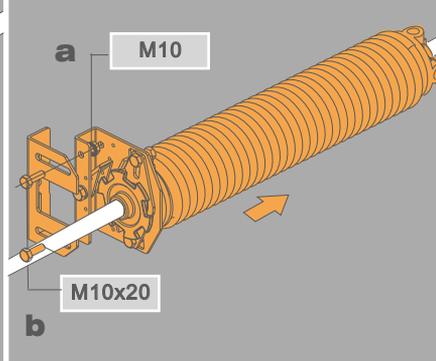
LHR
FLH



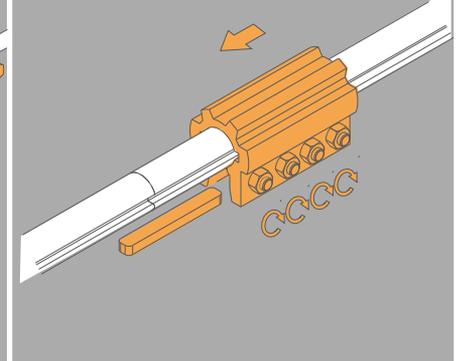
5.2A



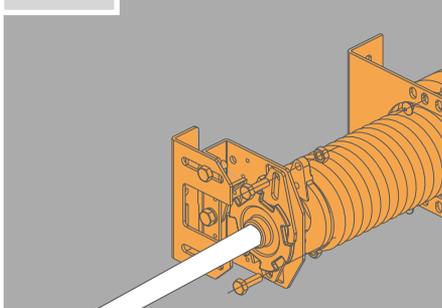
5.2B



5.3

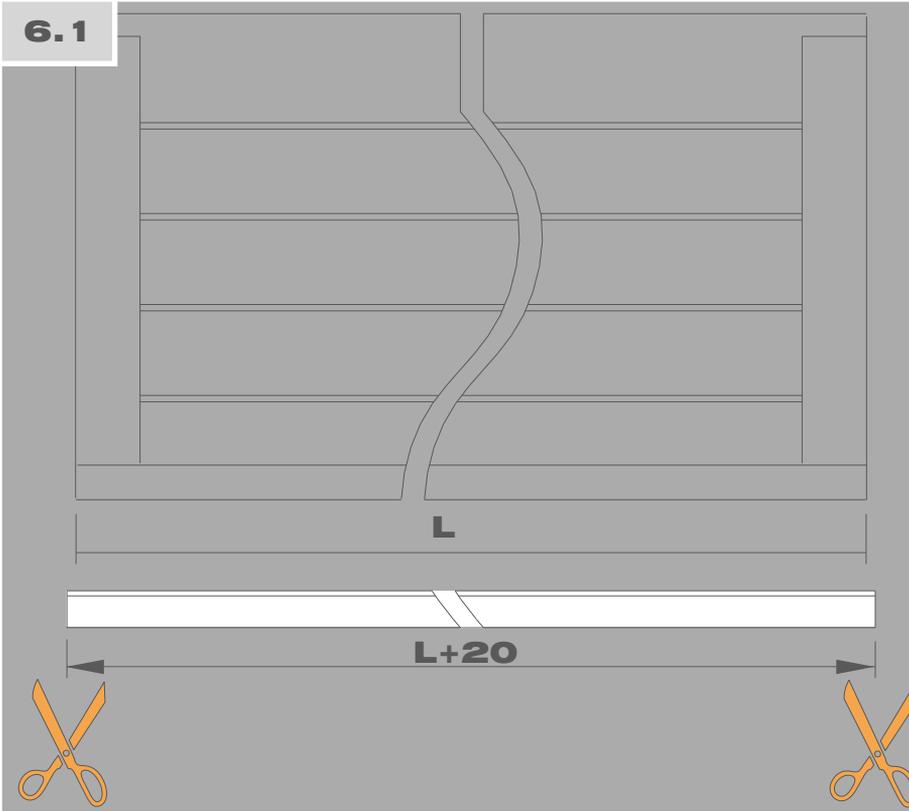


5.2C

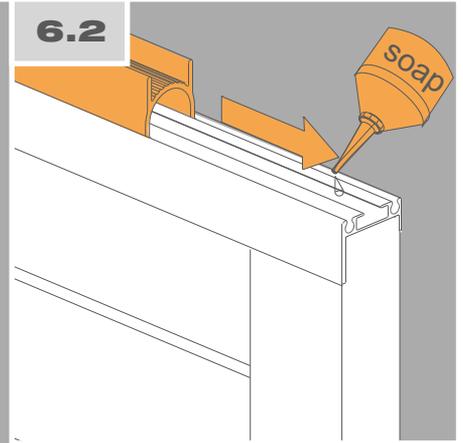


6

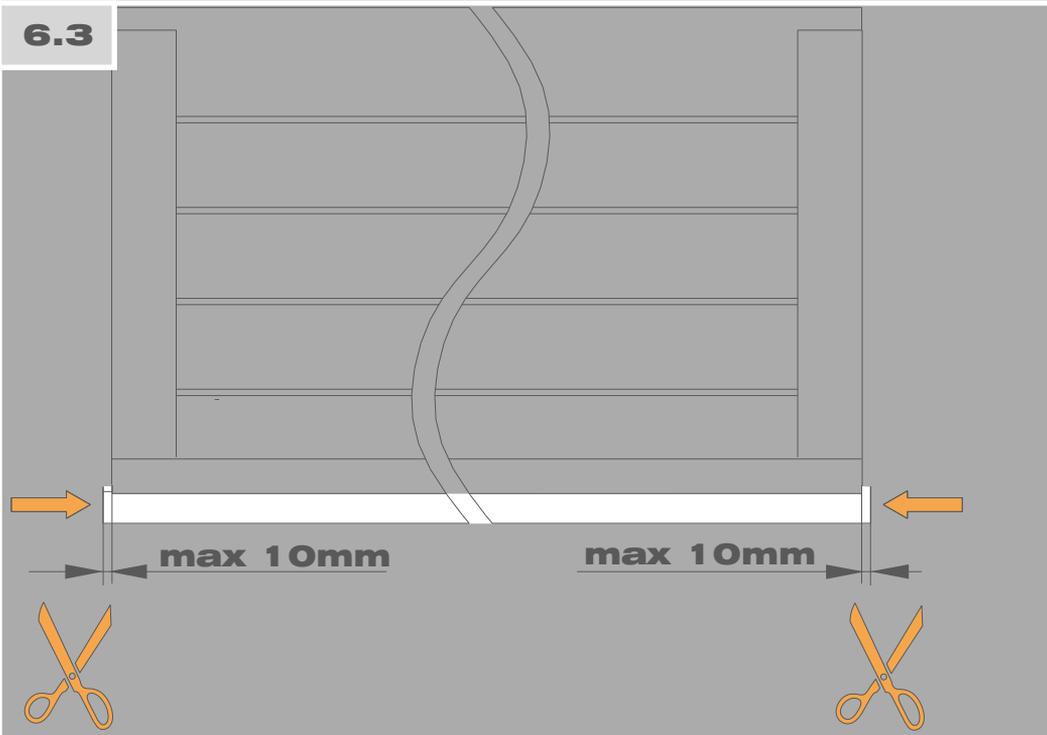
6.1



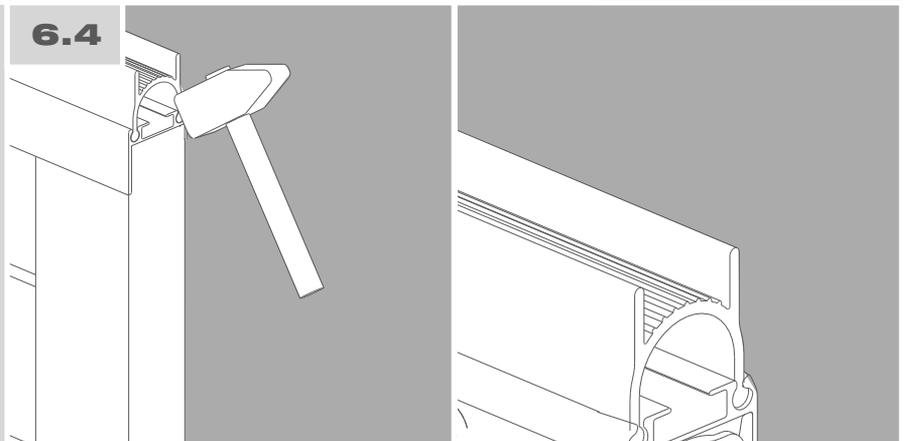
6.2



6.3



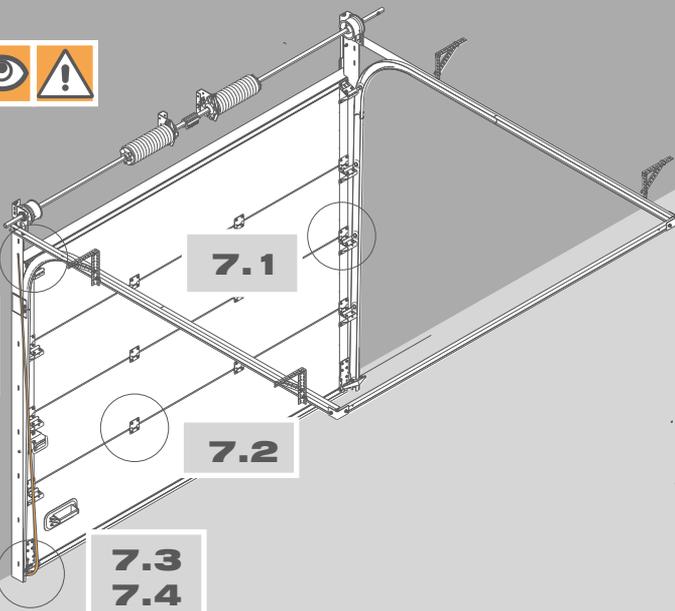
6.4



7



7.6
7.7

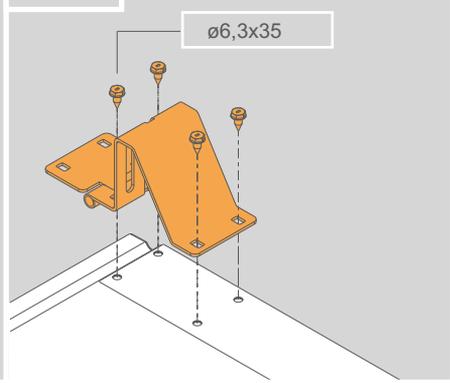


7.1

7.2

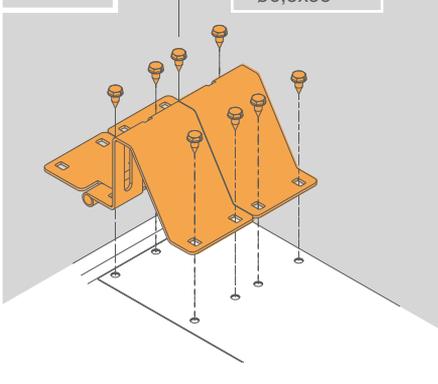
7.3
7.4
7.5

7.1A



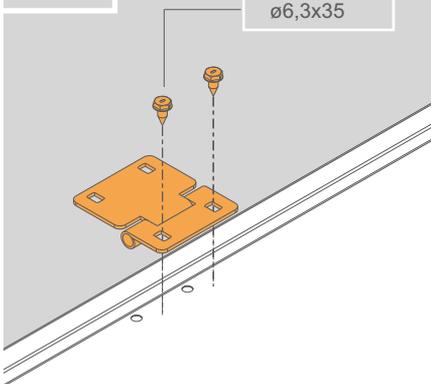
ø6,3x35

7.1B



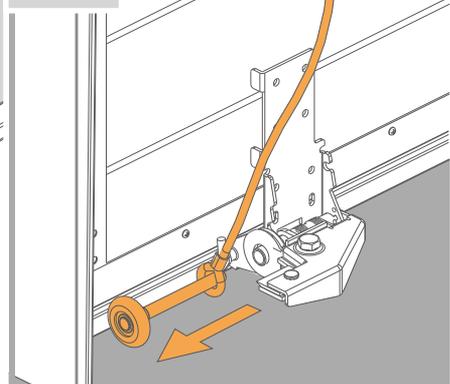
ø6,3x35

7.2

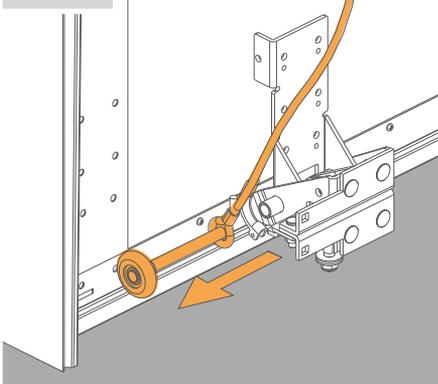


ø6,3x35

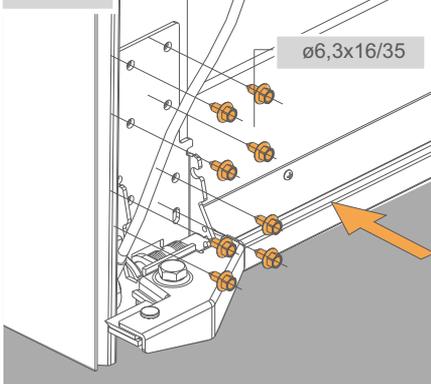
7.3A



7.3B

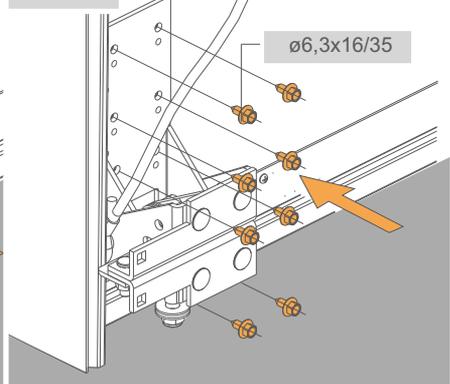


7.4A



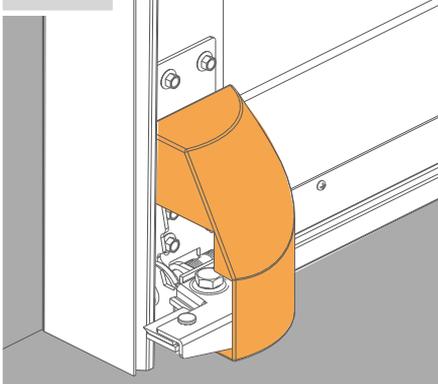
ø6,3x16/35

7.4B

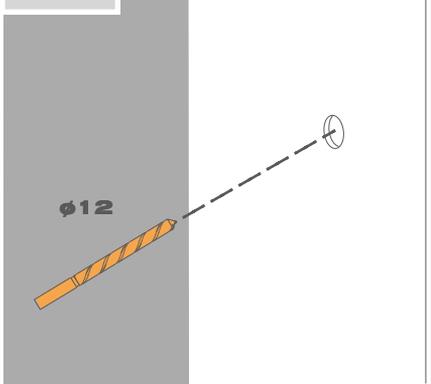


ø6,3x16/35

7.5A

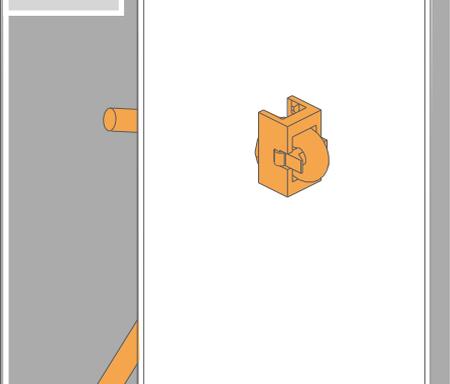


7.6

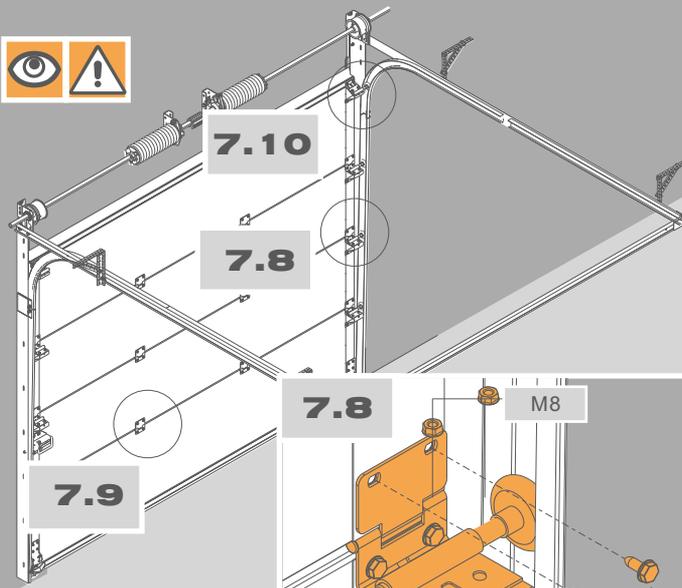


Ø12

7.7



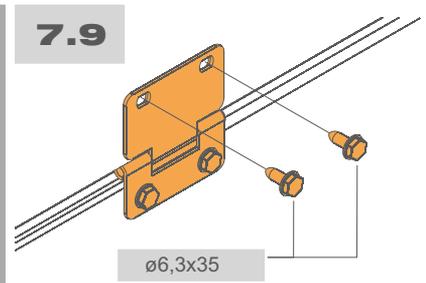
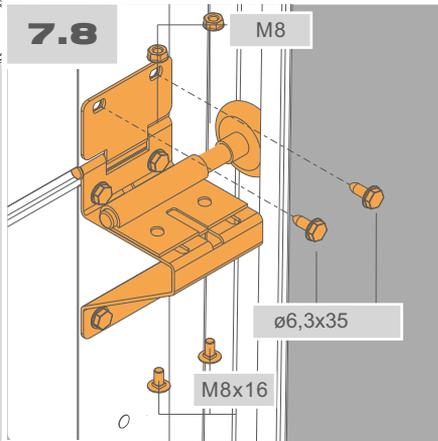
7



7.9

7.10

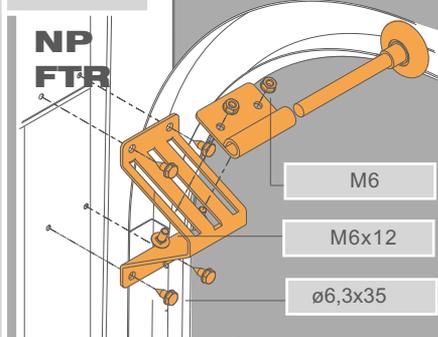
7.8



7.9

Ø6,3x35

7.10A

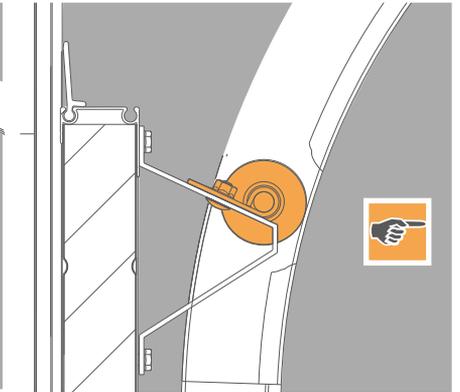


NP
FTR

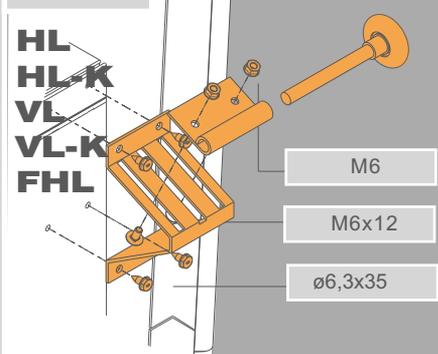
M6

M6x12

Ø6,3x35



7.10B

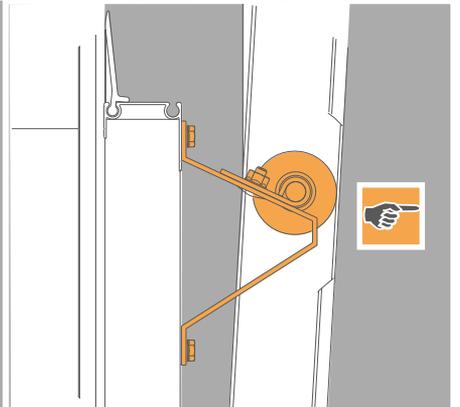


HL
HL-K
VL
VL-K
FHL

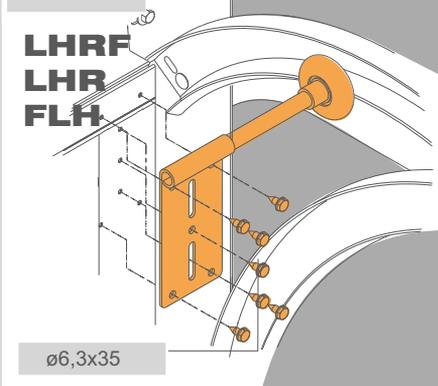
M6

M6x12

Ø6,3x35

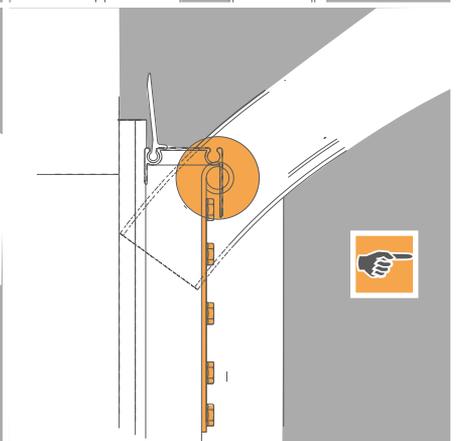


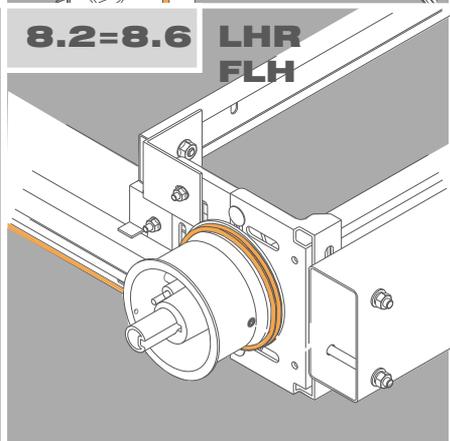
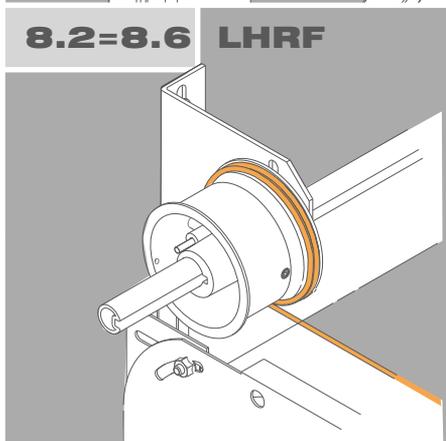
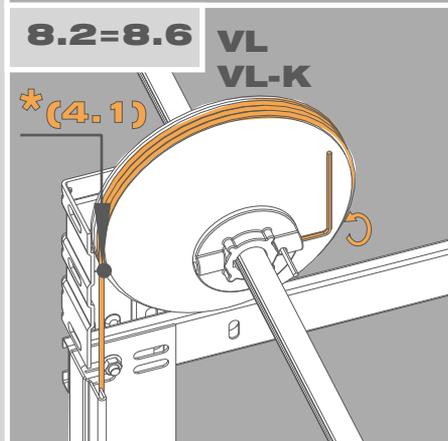
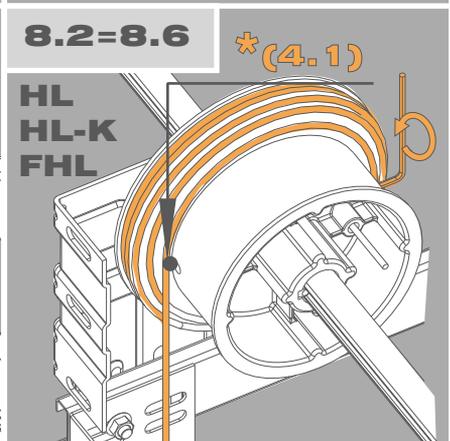
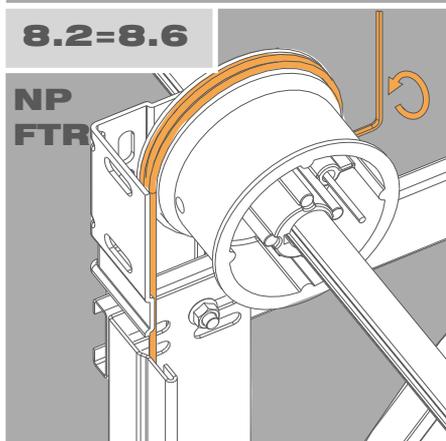
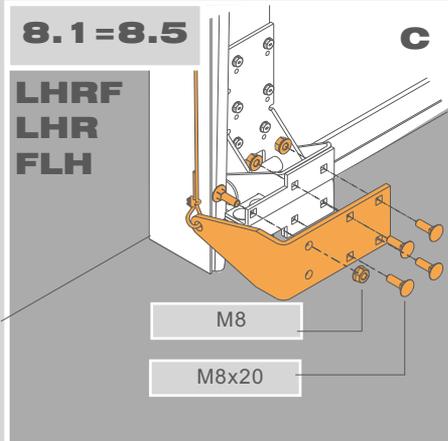
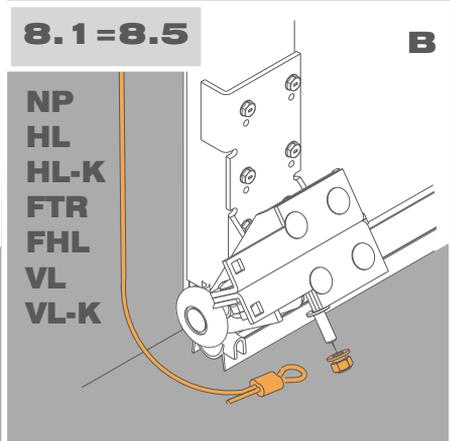
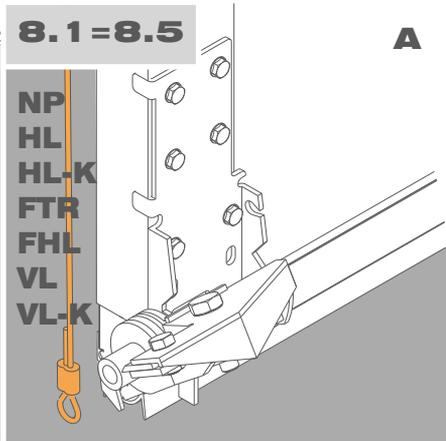
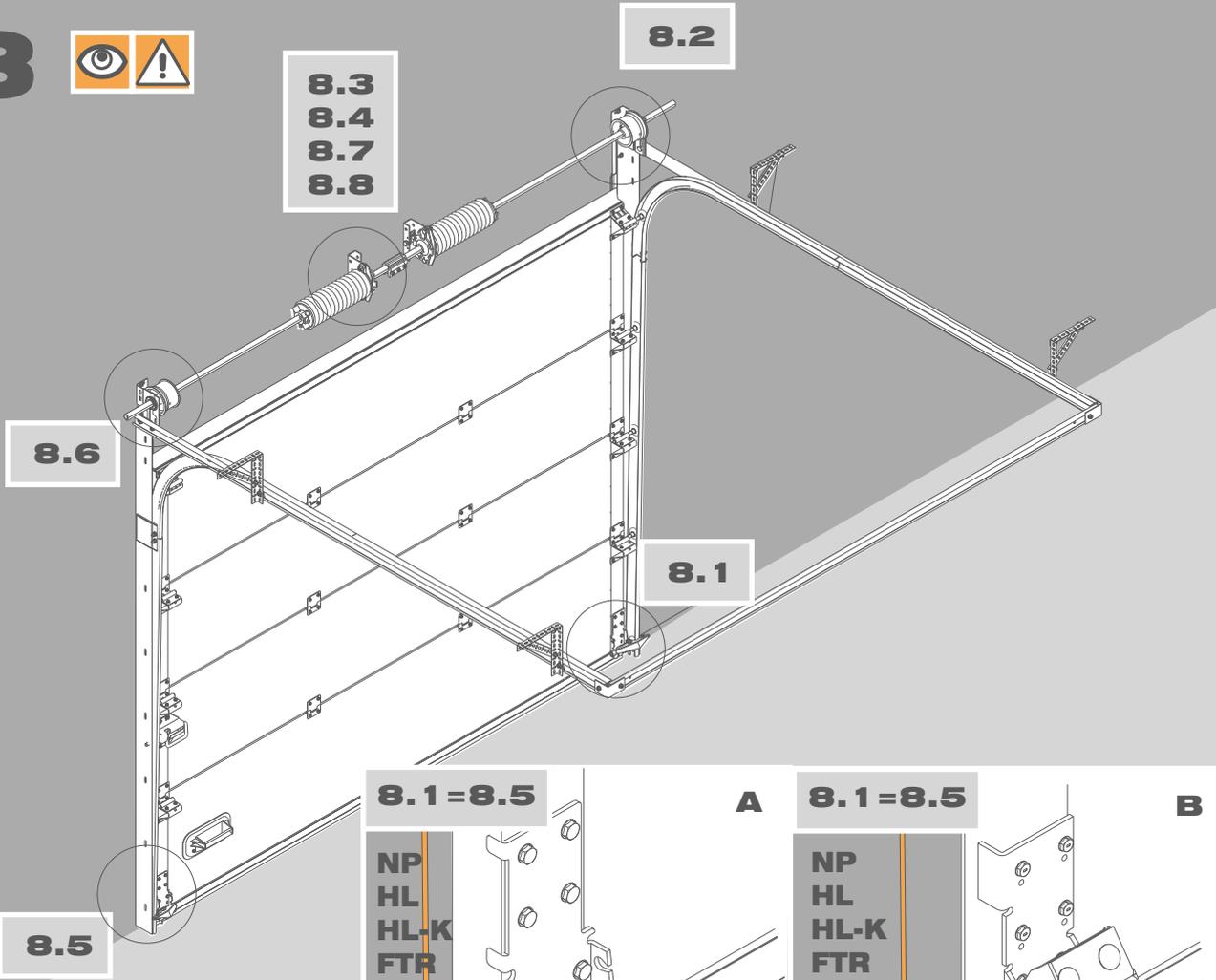
7.10C



LHRF
LHR
FLH

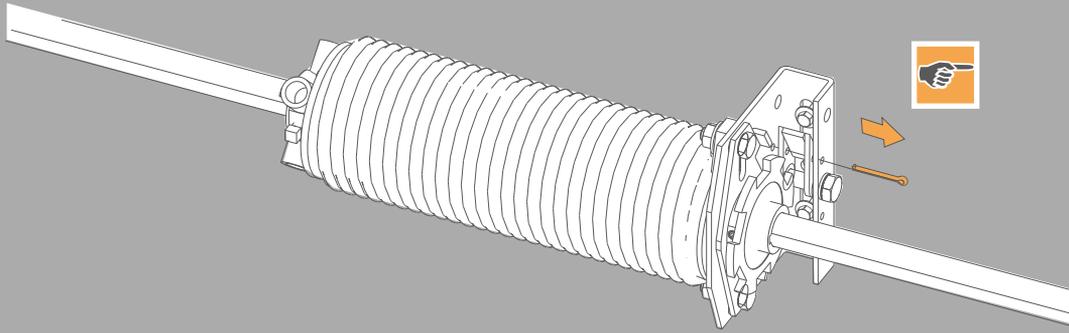
Ø6,3x35





8

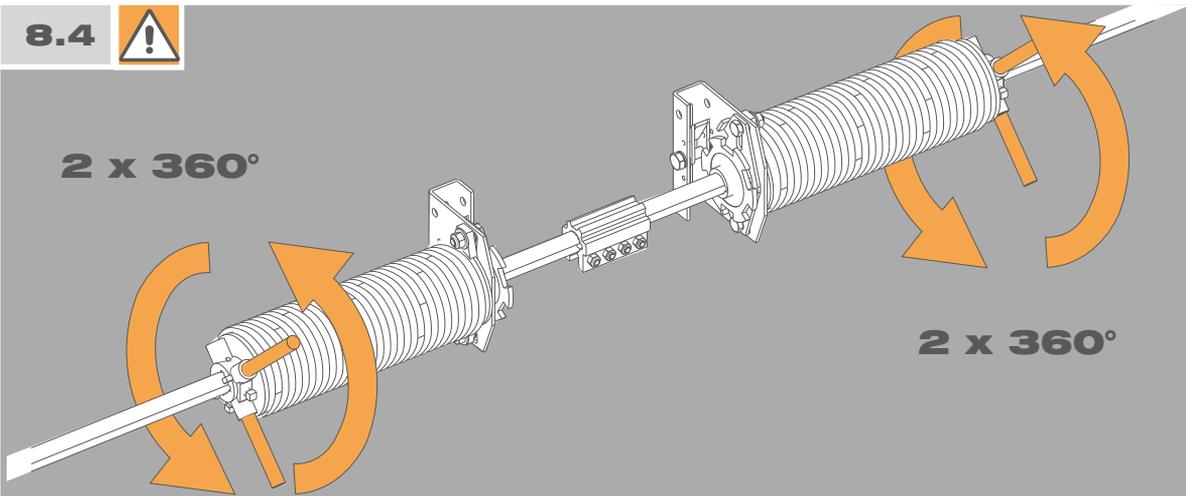
8.3



8.4

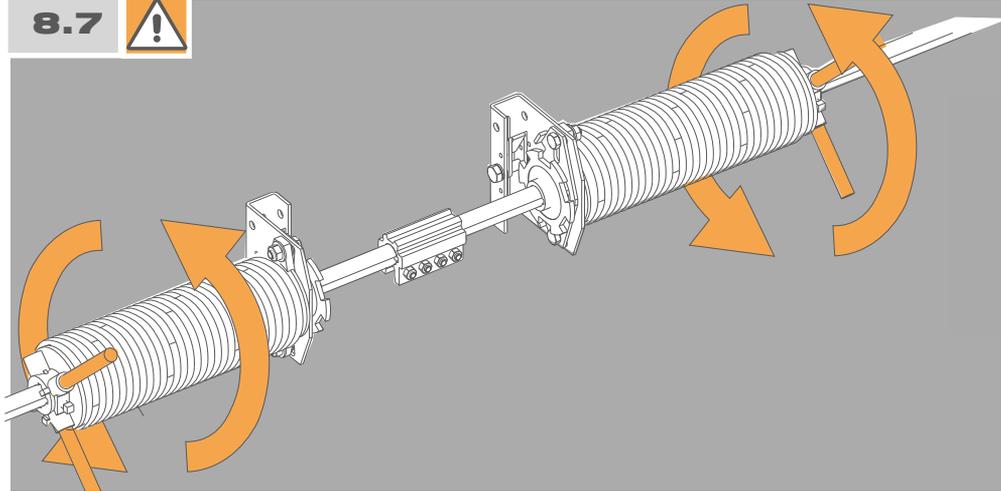


2 x 360°

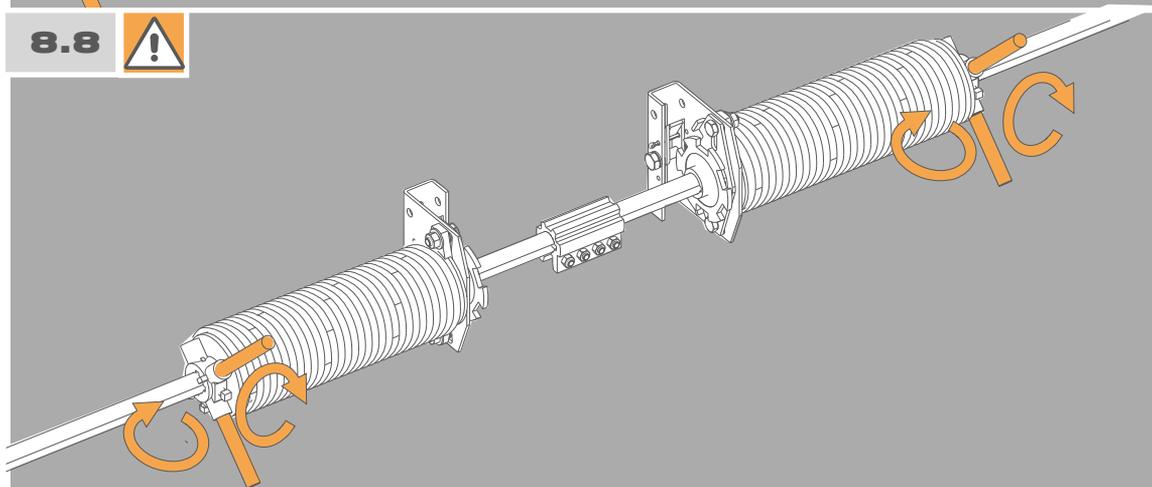


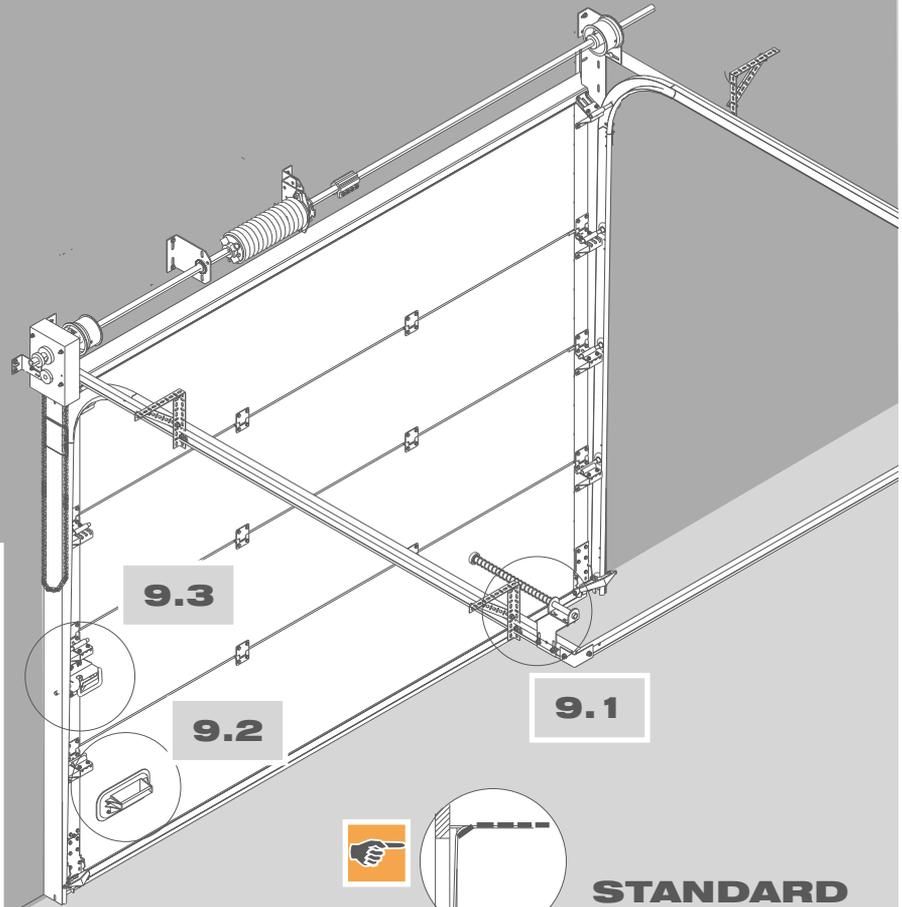
2 x 360°

8.7

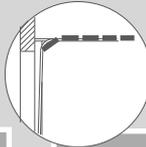
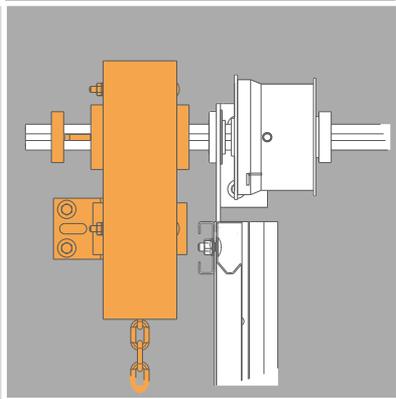
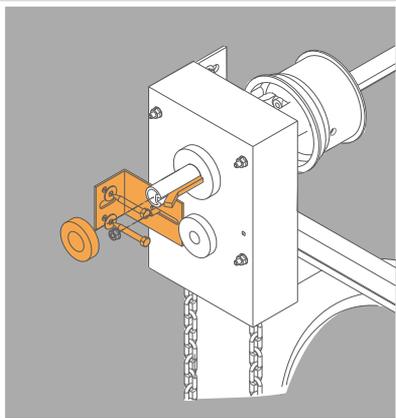


8.8

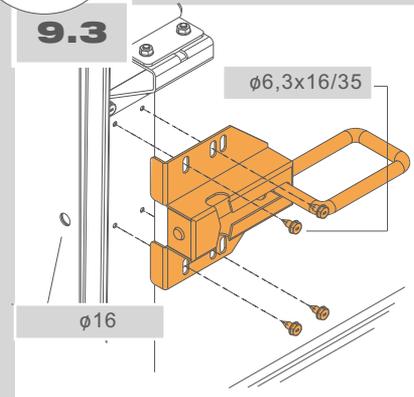
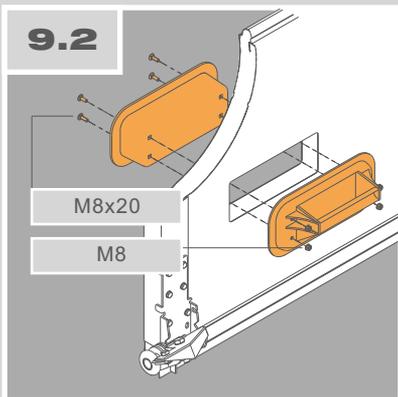
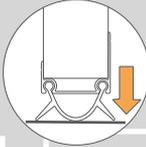
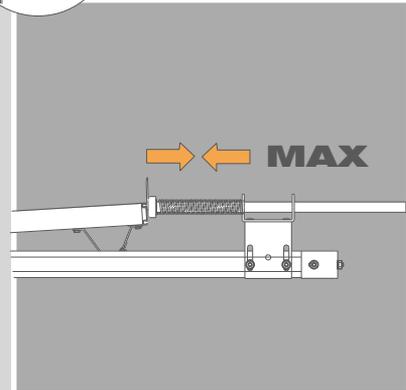
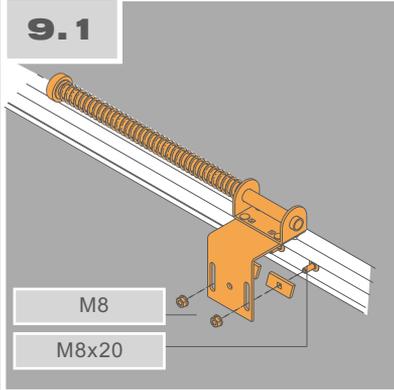


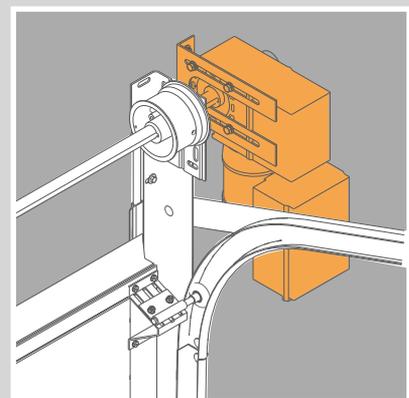
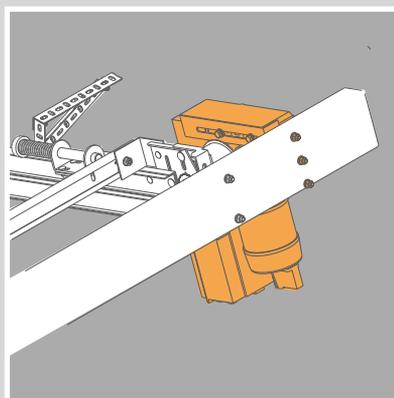
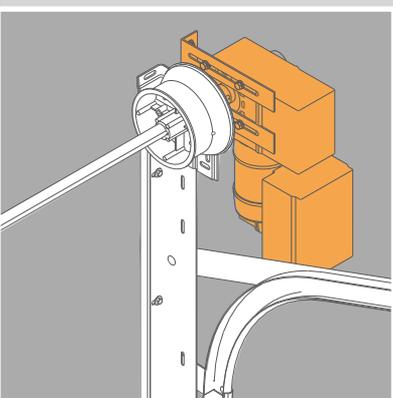
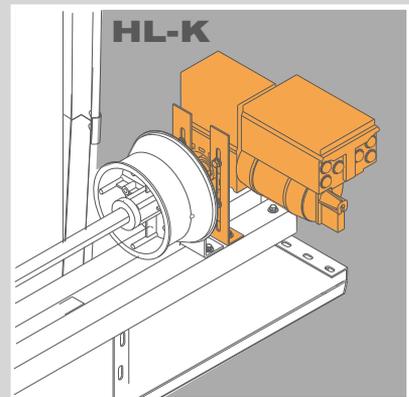
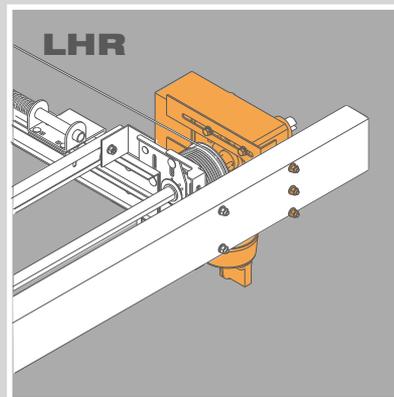
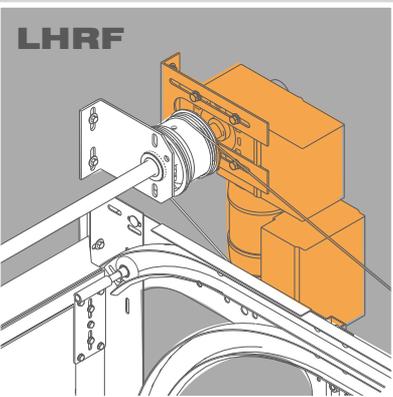
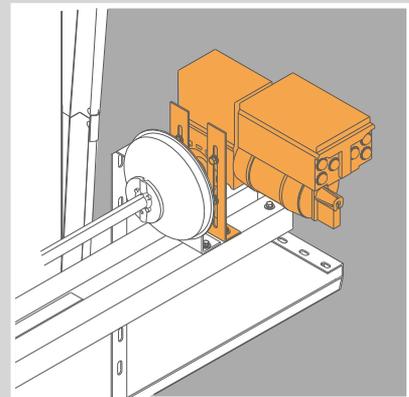
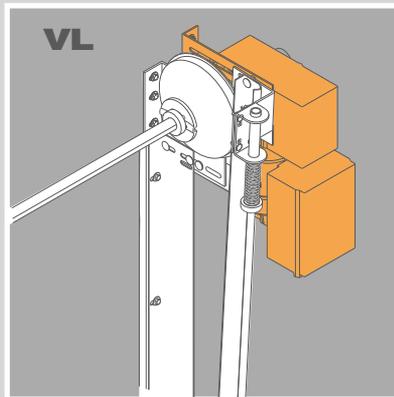
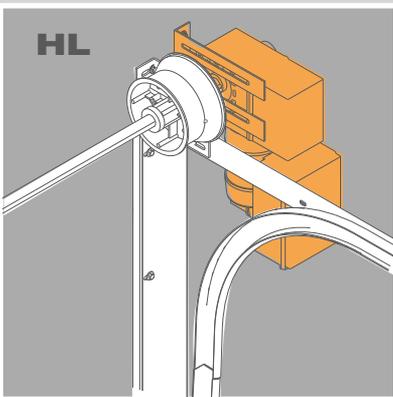
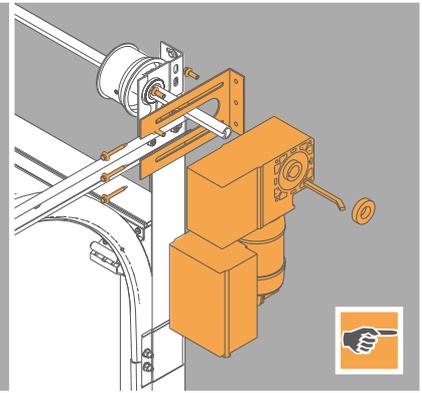
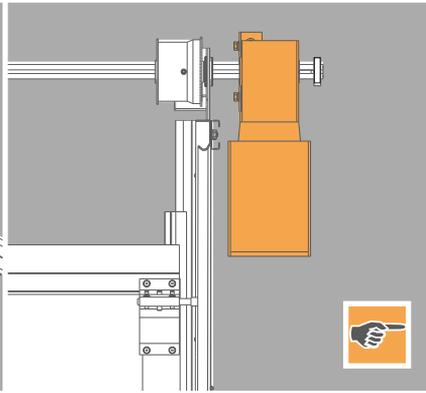
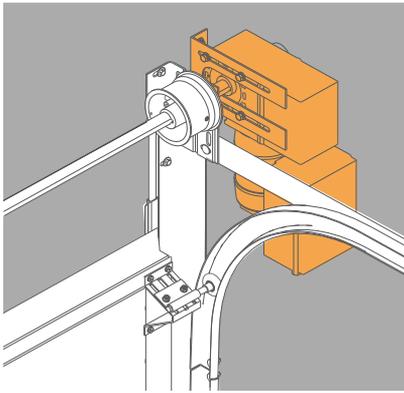


OPCJA

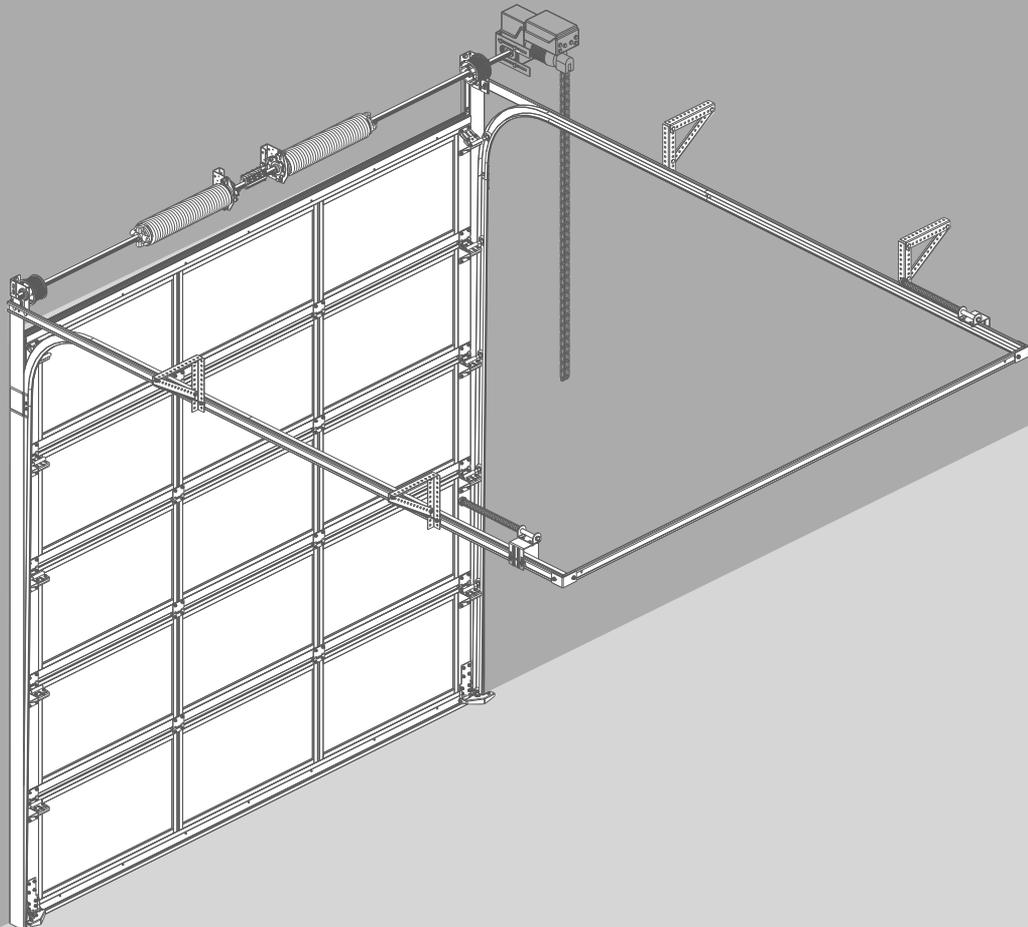
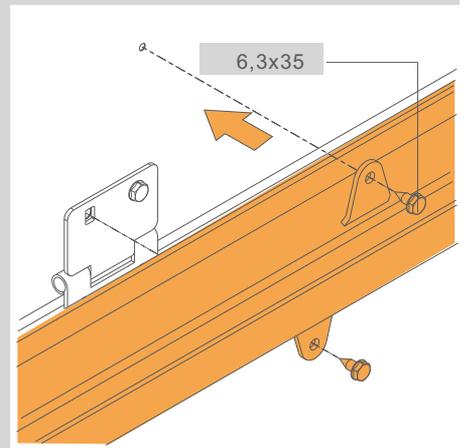
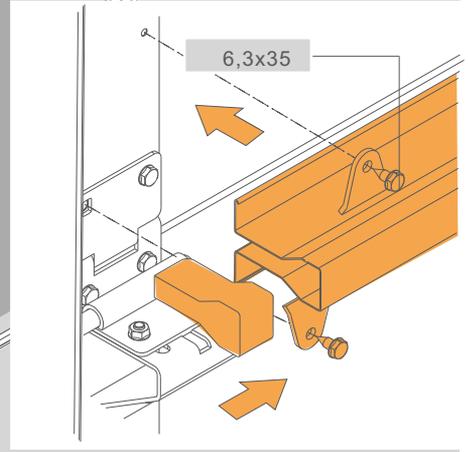
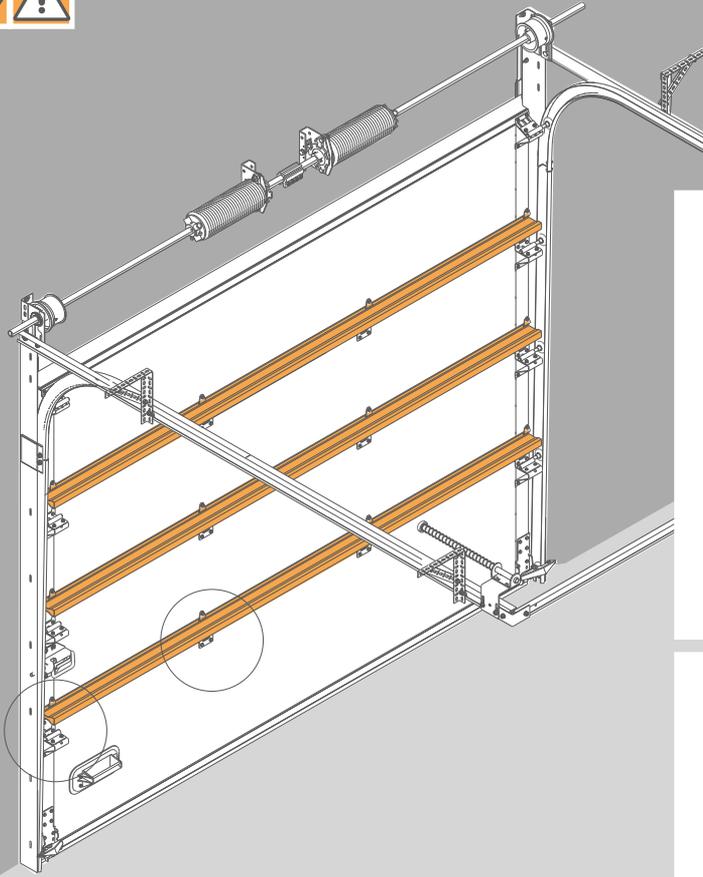


STANDARD

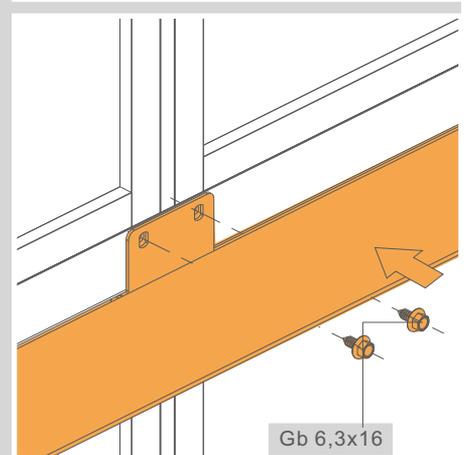
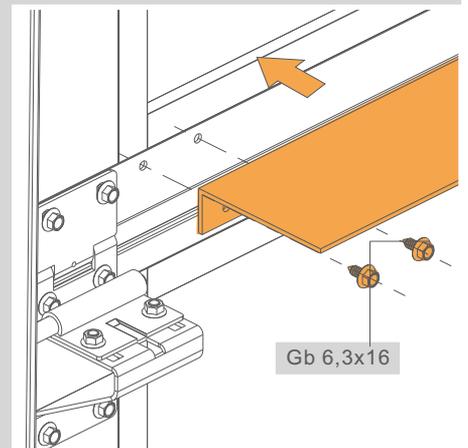
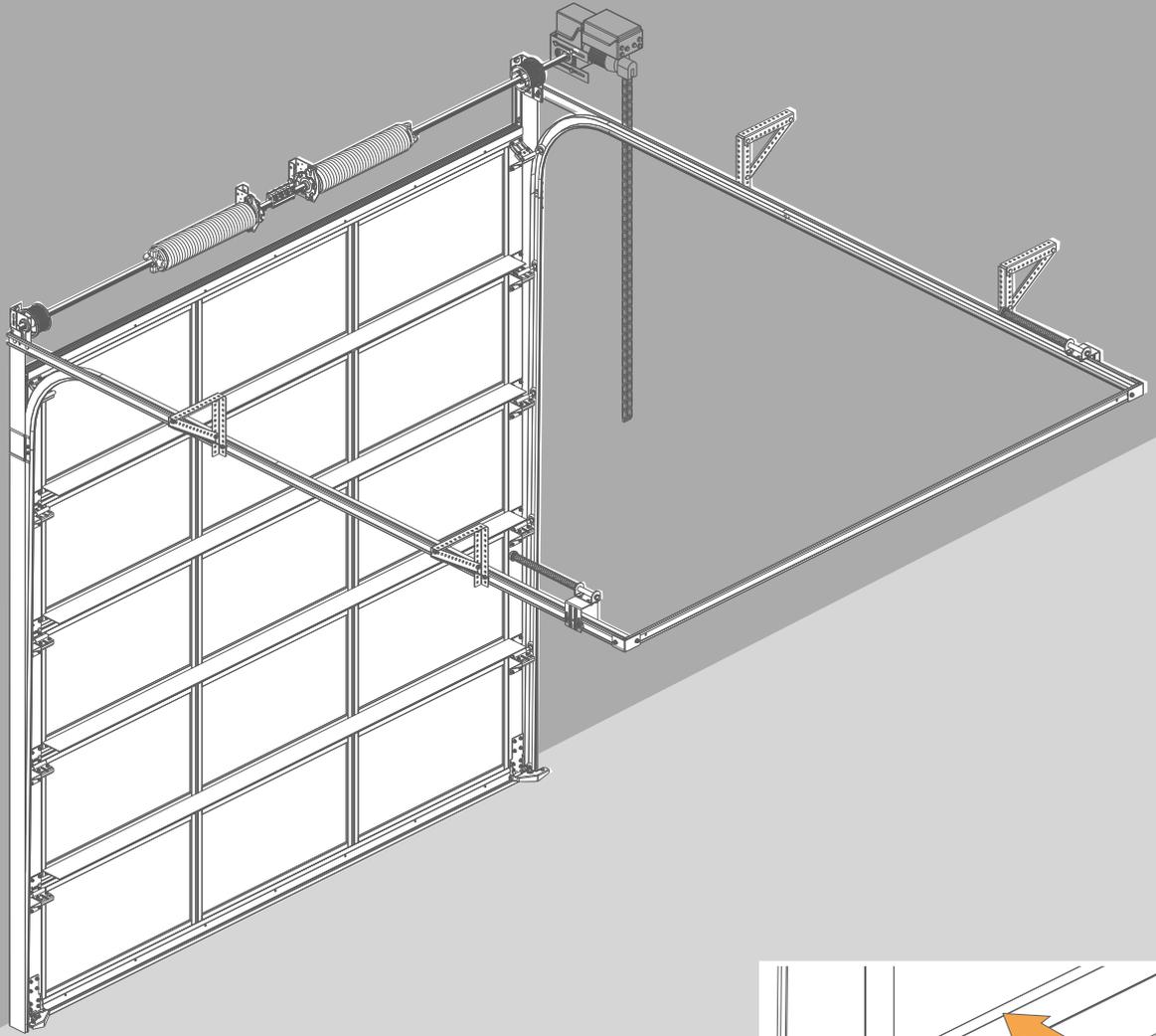




9



9



10



NP

10.3
10.5

10.4

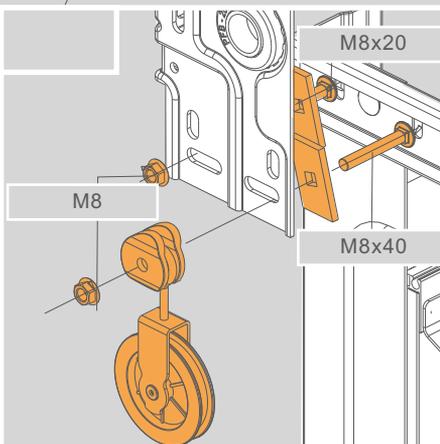
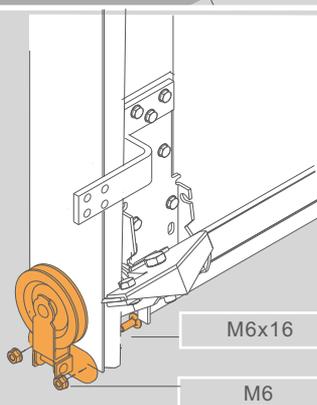
min 1500 mm

10.1
10.2

10.1

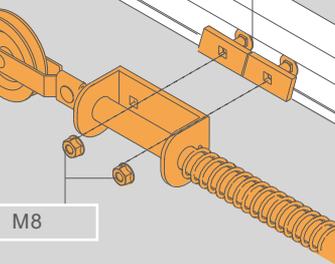
ø6,3x16

10.2



10.4

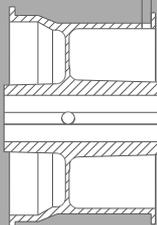
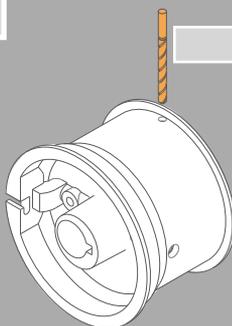
M8x16



10.5

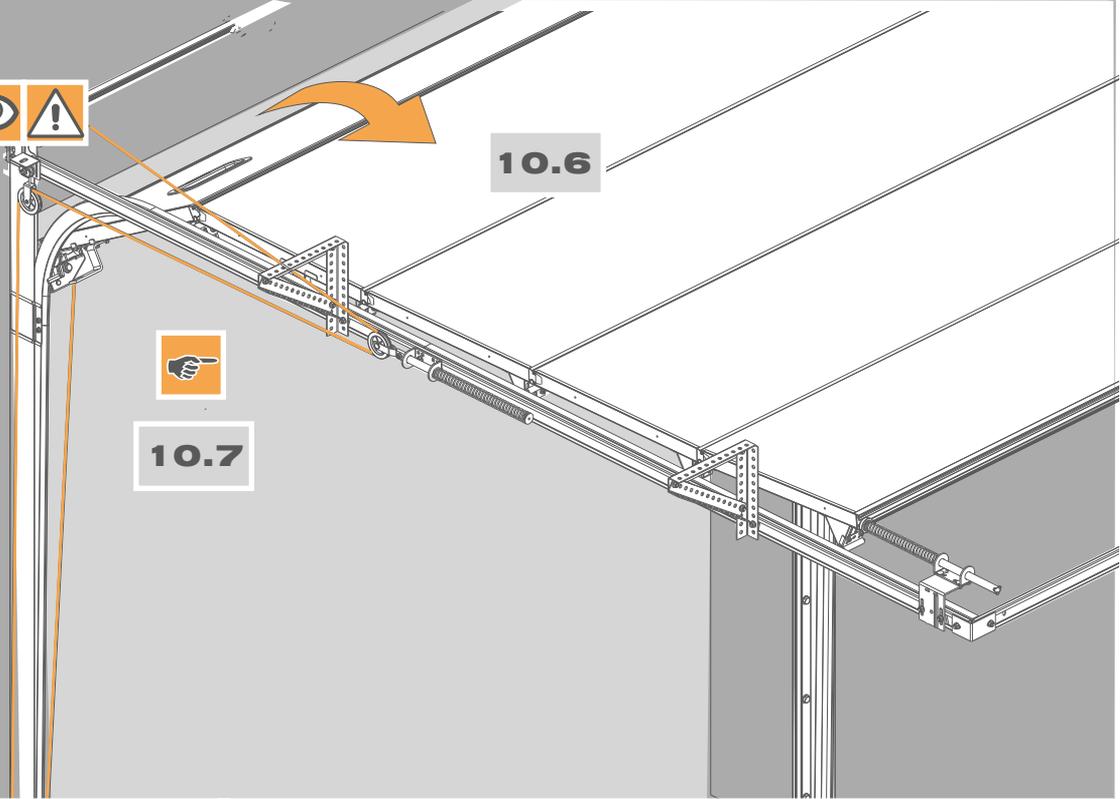
ø5

ø5



10

NP

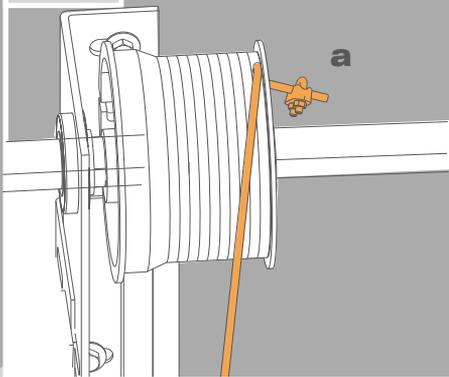


10.6

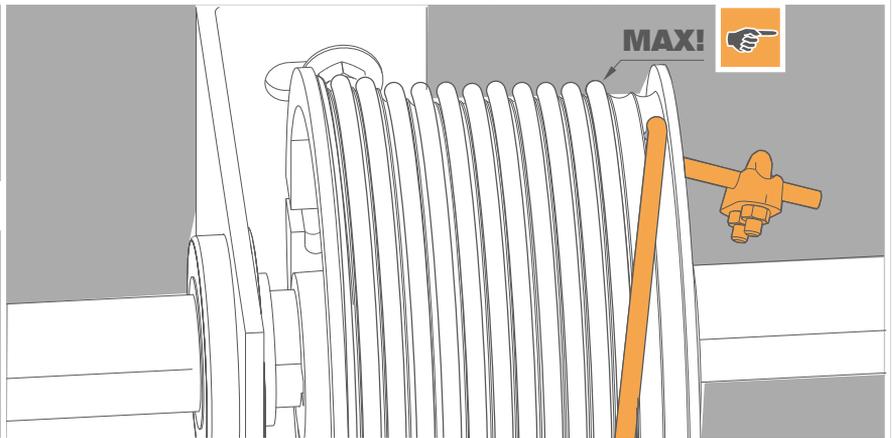


10.7

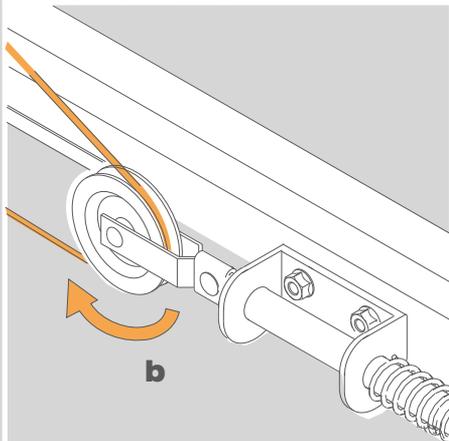
10.7



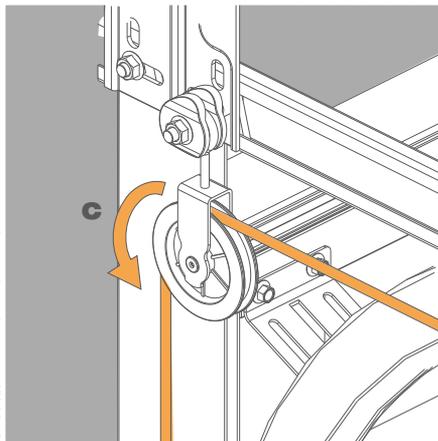
a



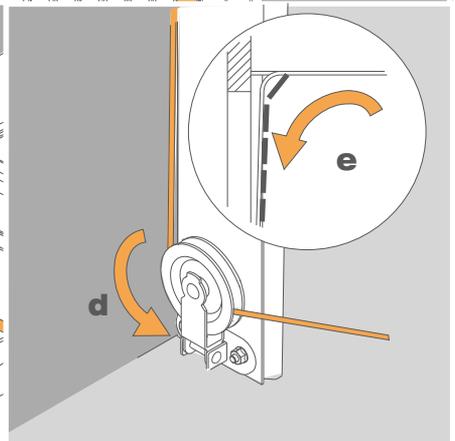
MAX!



b

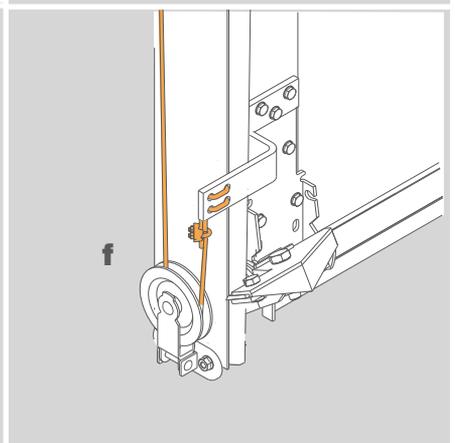


c



d

e



f

10



LHRF

10.3
10.5

10.4

min. 500 mm

10.1
10.2

10.1

ø6,3x16

10.2

M6

M6x16

M6

M6x16

10.3

M8x16

M8

10.4

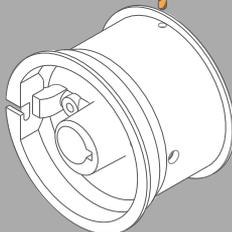
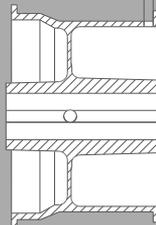
M8x16

M8

10.5

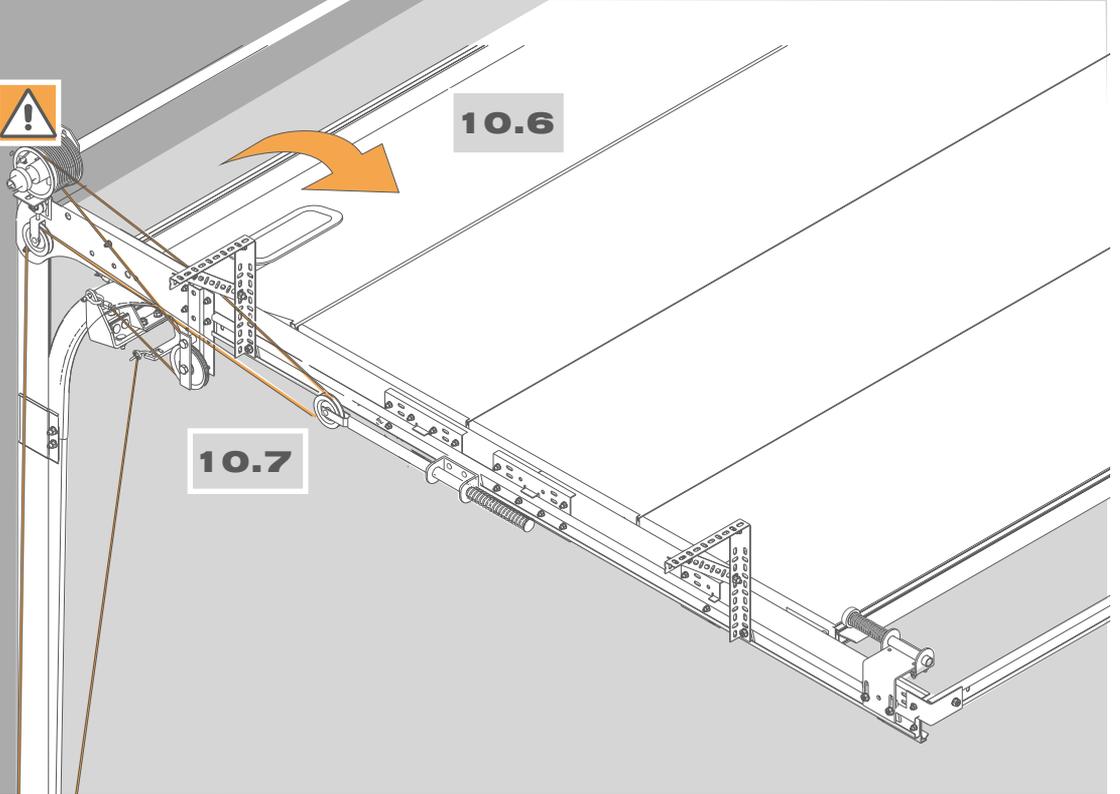
ø5

ø5

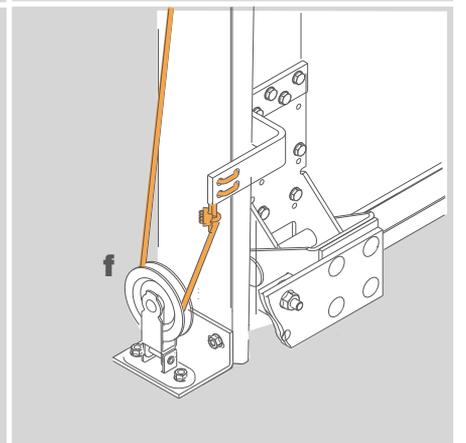
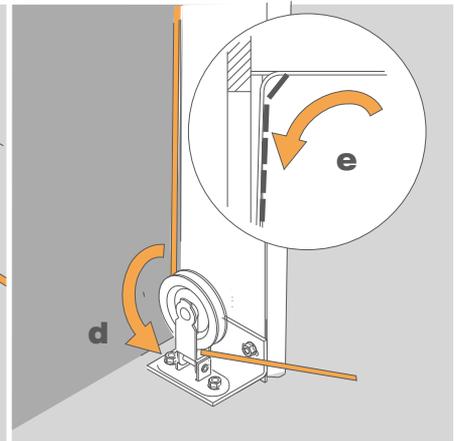
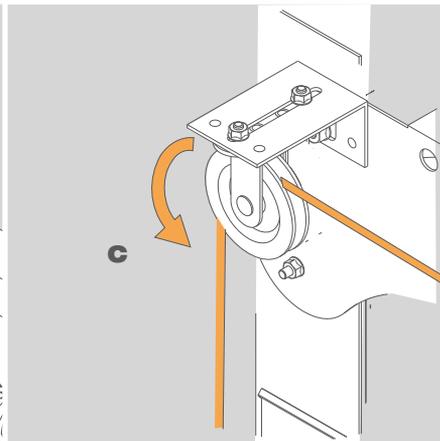
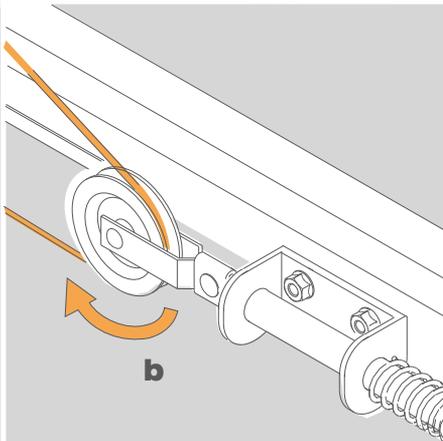
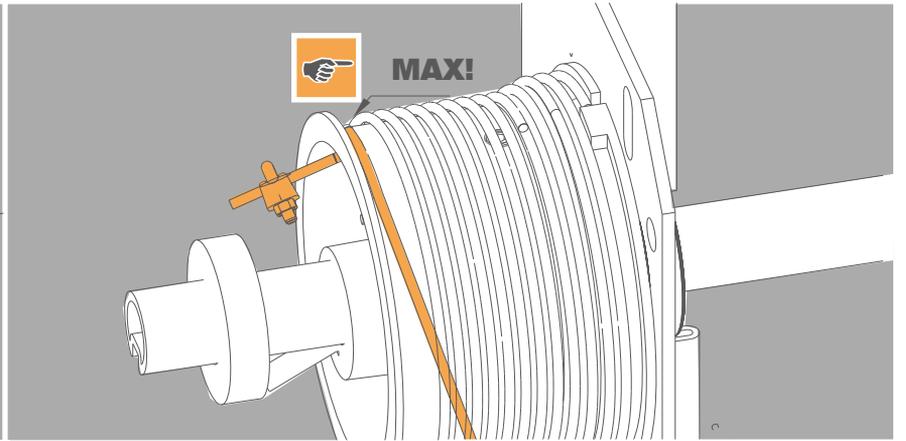
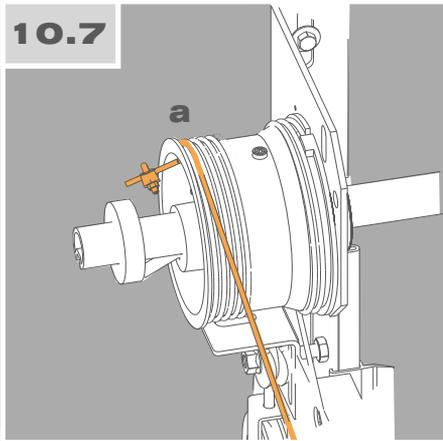


10

LHRF



10.7



10



LHR

10.3
10.5

min. 1500 mm

10.4

10.1
10.2

10.1

ø6,3x16

10.2

M6

M6x16

M6

M6x16

10.3

M8x16

M8

10.4

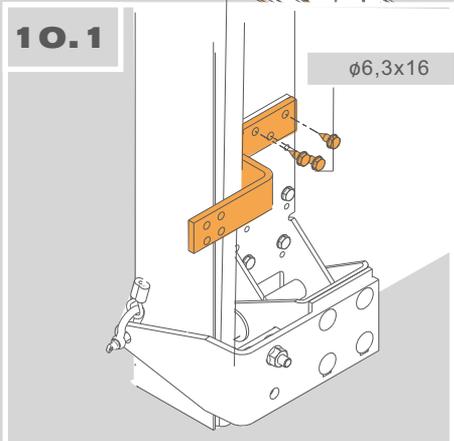
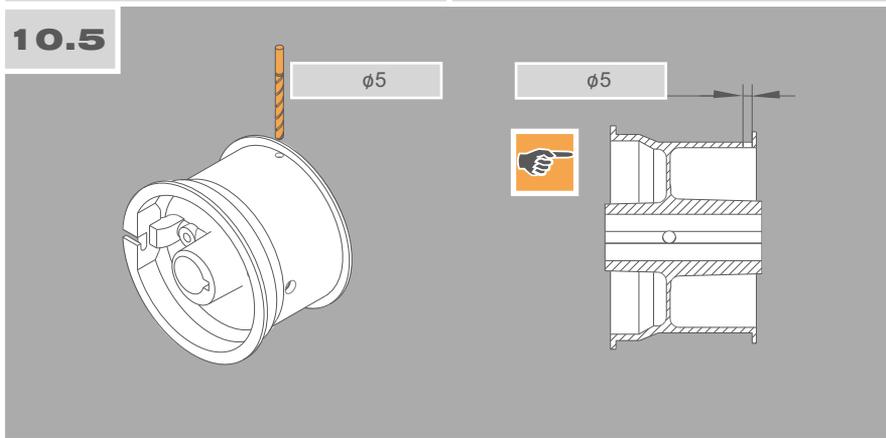
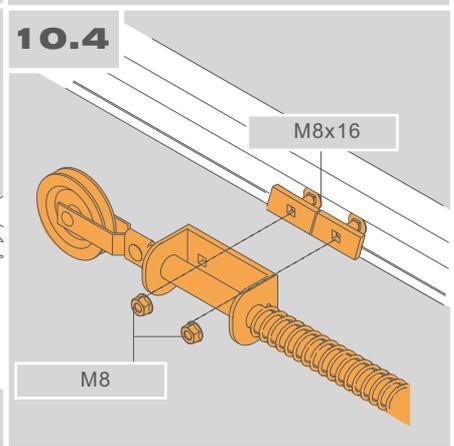
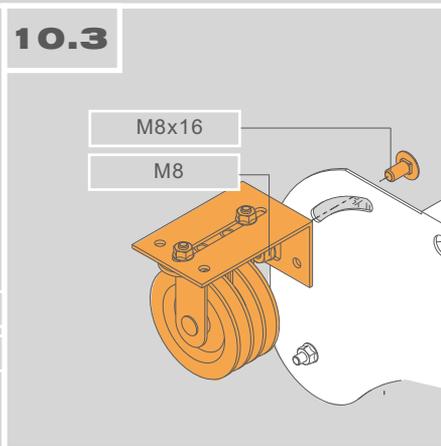
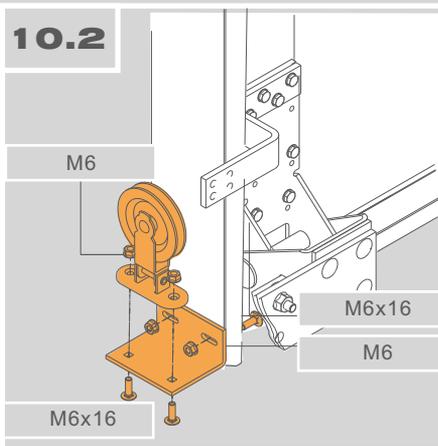
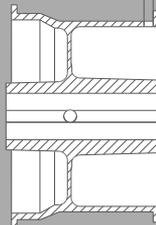
M8x16

M8

10.5

ø5

ø5



10

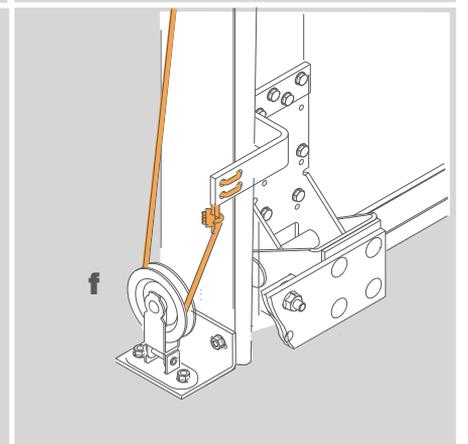
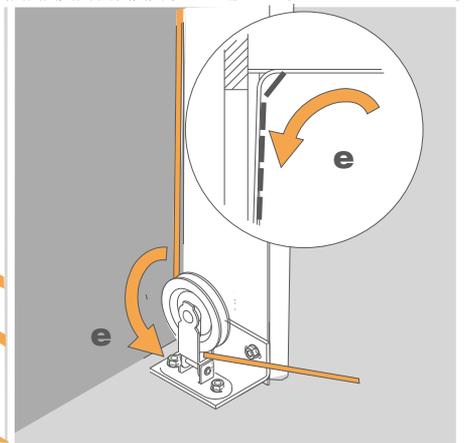
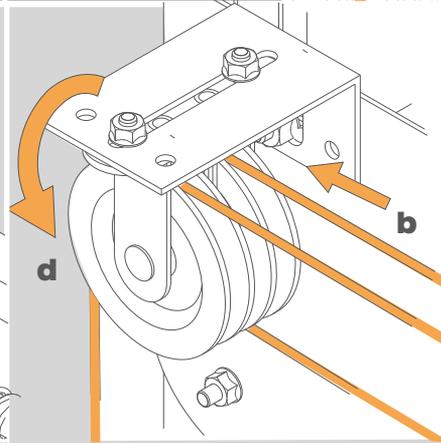
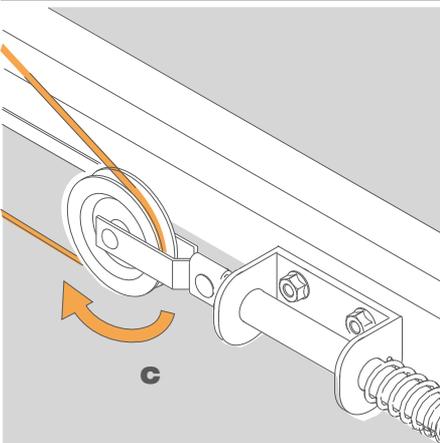
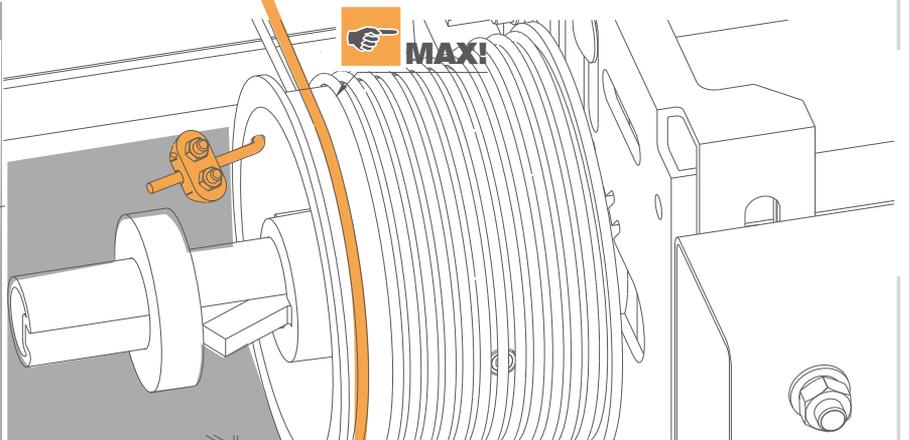
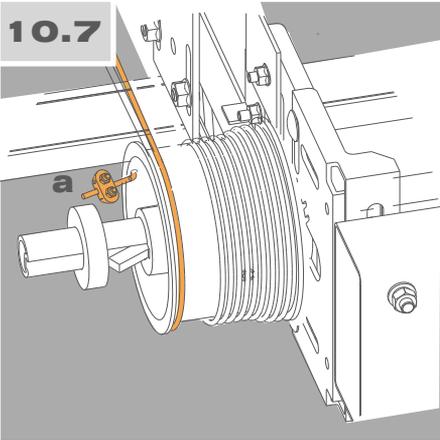


LHR

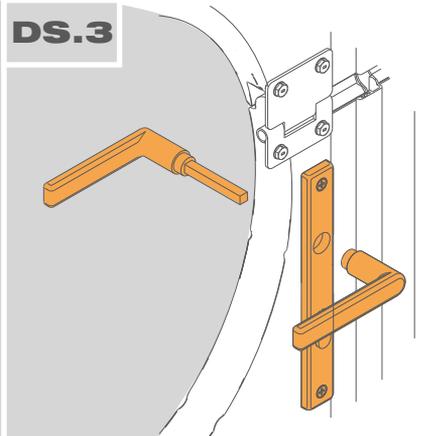
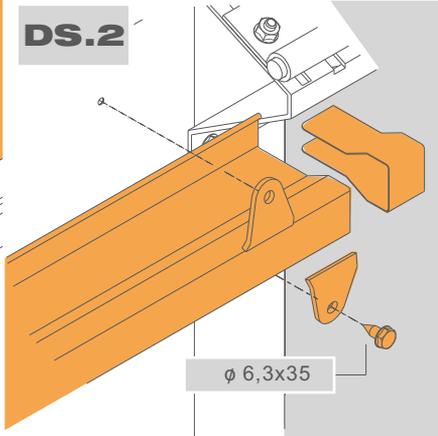
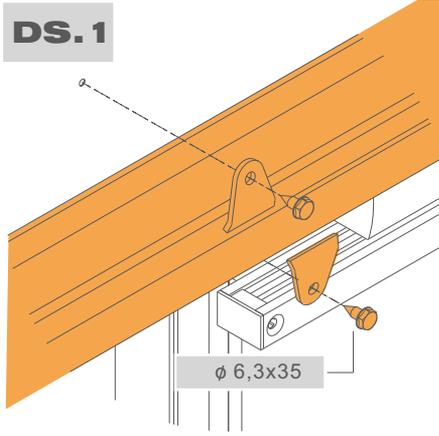
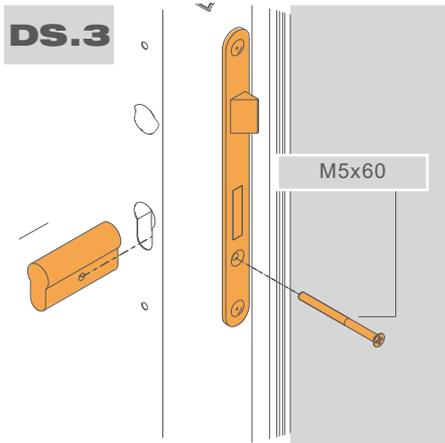
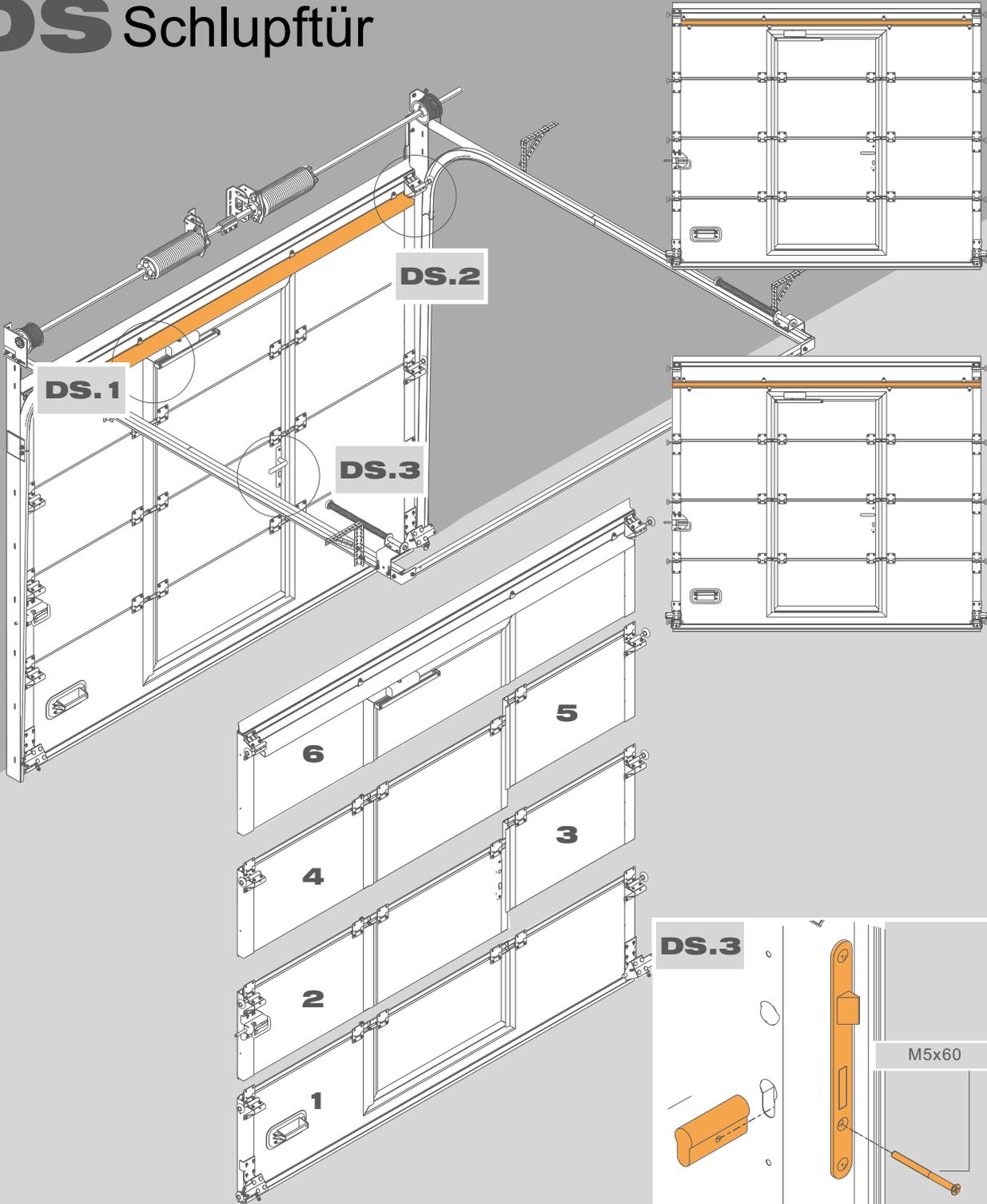
10.6

10.7

10.7

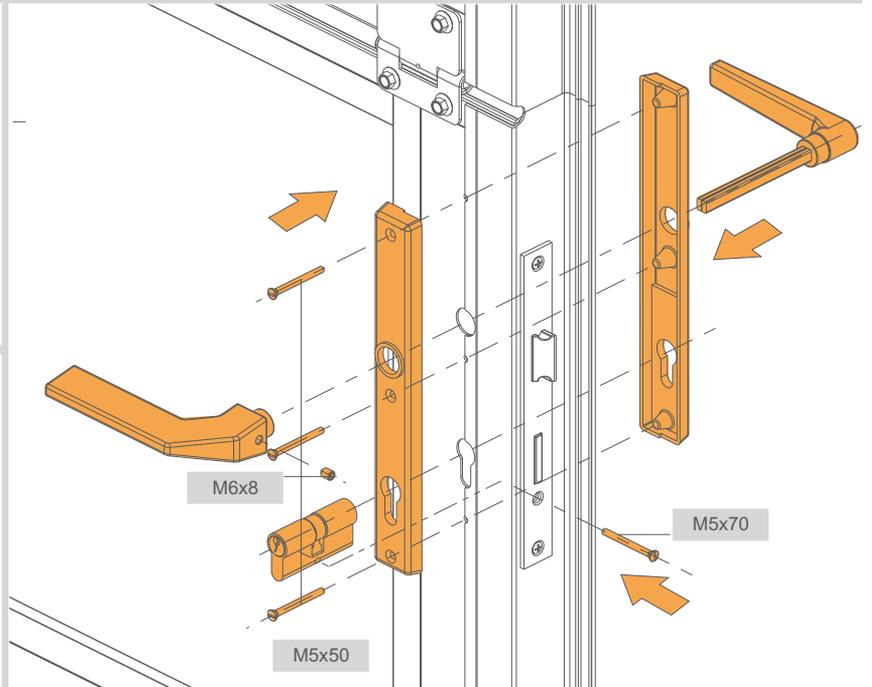
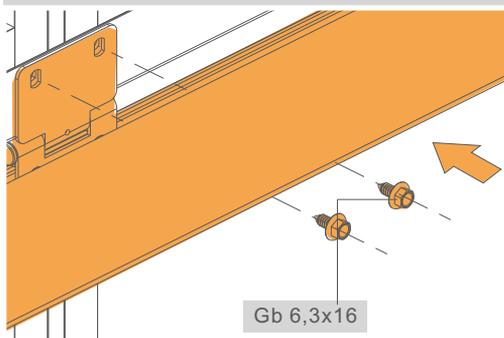
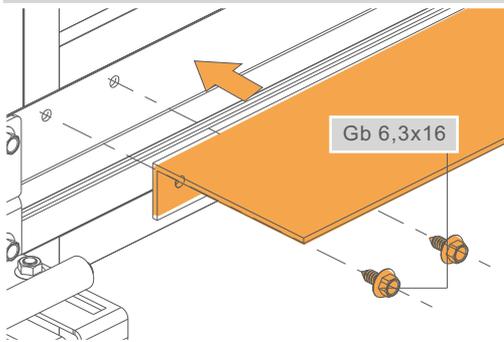
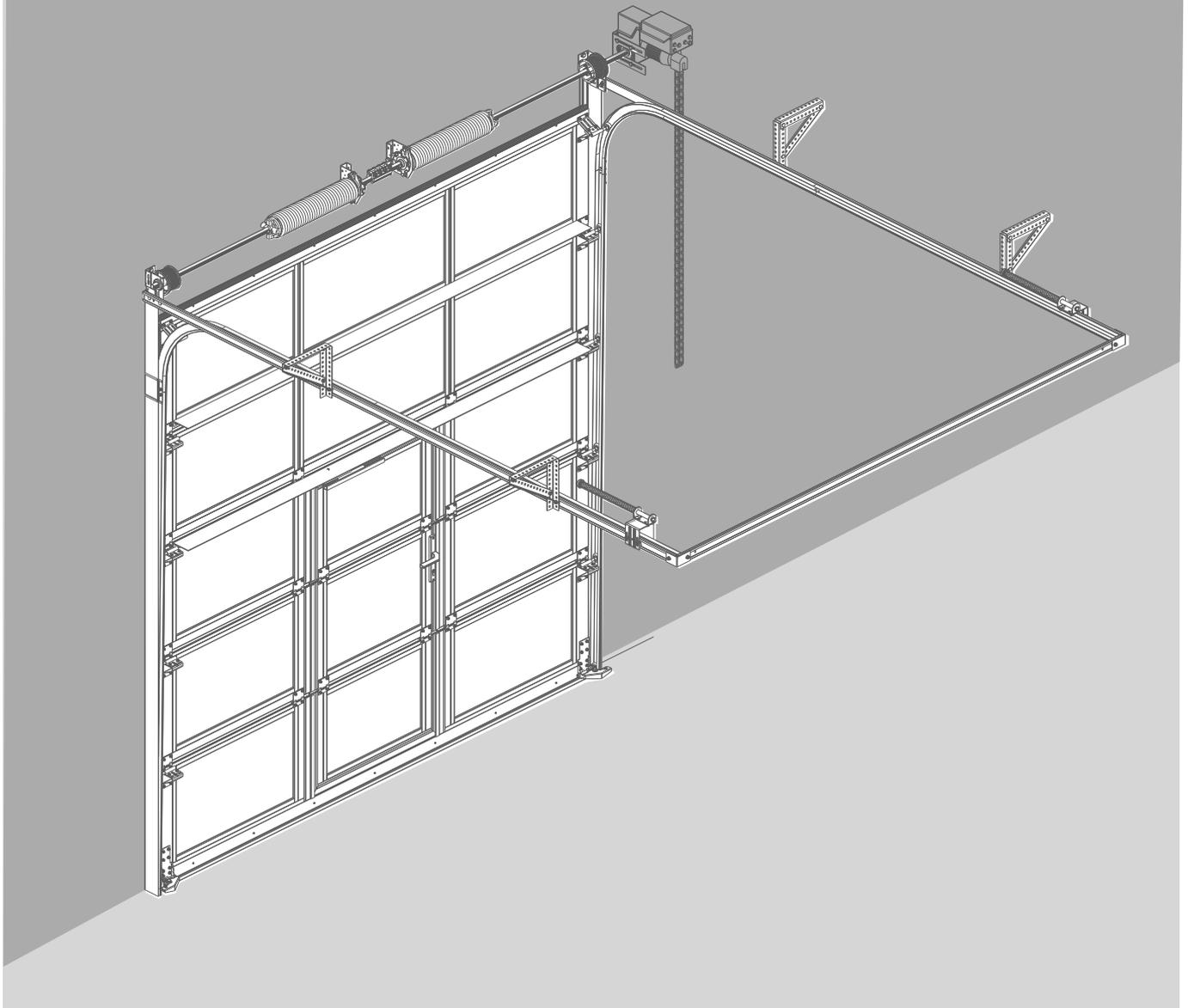


DS Schlupftür



DS Schlupftür

K2 IP



DB Nebentüre

