novelforis

Puertas seccionales

Installation Manual

HOME-F

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Los artículos marcados como OPCIONAL no están incluidos de forma estándar. Si lo desea, puede pedir su suministro de forma opcional.

1. Symbols

Danger / Attention

Look / Check

Manual operation

Electrical operation

1 Mandatory step

1 Optional step

ALT. Alternative step

Consult manual

2. General warnings

This manual has been prepared for use by qualified personnel and therefore not by trainees or “do it yourselfers”
In case of doubt about the assembly and/or maintenance, please contact DOCO International
To avoid severe personal injury, carefully read and observe all indications and warnings in this manual.

- This manual describes the assembly, use and maintenance of your residential door system HOME.
- This manual may be supplemented by other manuals, for instance the panel assembly manual and operator manual (if applicable).
- This residential door system has been designed in accordance with the latest European standards; however you must check for yourself whether this standard corresponds with the local national standard.
- All measurements are in millimetres unless specified otherwise.
- After installation ensure that the CE marking label has been completed and attached.
- Keep this manual in a safe place, near the residential door.
- Subject to technical changes without written notice.

2.1 Safety requirements for assembly and first use

- This residential system may only be mounted, connected and put into operation by qualified personnel.
- Make sure that the power is switched off and remains switched off while electrical work is carried out!
- Never bridge safety devices!
- Adding or omitting parts can affect the door operation and thus the safety of the installed sectional door. This is therefore strongly discouraged!
- Some parts may contain sharp edges: use protective gloves.
- All references to the door/component handing in this manual are always as viewed from inside looking out.
- Never use the sectional door if visual damage is observed, particularly with respect to cables, springs and safety devices.
- When performing assembly/maintenance, always wear at least gloves, safety boots safety goggles during drilling/cutting!
- Make sure that you can always perform your work in a stable environment.
- Secure the assembly/maintenance site with safety ribbon to keep others (children!) at a distance.
- Maintenance may only be performed by a qualified company and/or qualified personnel.
- Make sure there is enough light.
- Always use appropriate tools.

3. Terms and conditions

Our general conditions of delivery and payments are applicable on all our offers, agreements or subsequent revisions.
A copy of our terms and conditions is available on request or can be downloaded from our website:
www.doco-international.com

4. Area of application

This hardware set has been developed for installation in garages in the private sector
- Maximum door width: 6000 mm
- Maximum door height: 3000 mm
- Maximum door leaf weight: 295 kg
- Maximum temperature range outside*: -20 °C until +50 °C
- Relative humidity 20 - 90%
- Lifetime: 15.000 cycles

* Big differences in temperature between inside and outside can cause deflection in the panel leafs (bi-metal effect). In particular dark coloured panels are susceptible to this effect and should be avoided. Care should be taken during manual handeling as there is a big risk of damage.

5. Guidelines

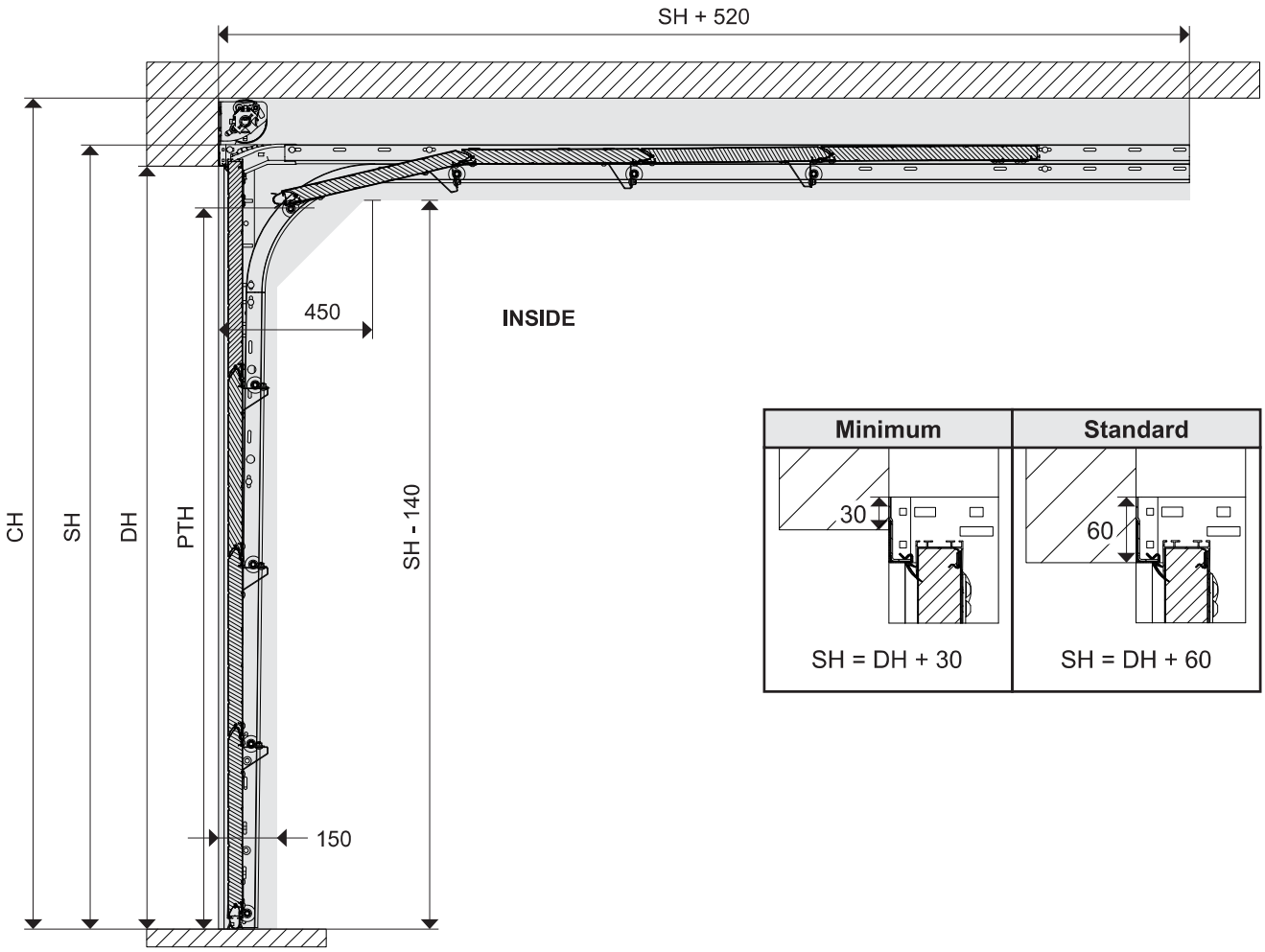
DOCO International had carried out the “Product Test“ of this door (Initial Type Testing = ITT) by the SP institute in Sweden, known as Notified Body No. 0402.
Documents regarding this ITT can, in consultation with DOCO, be transferred to the company which produces the door. This is necessary to complete a CE-dossier.
NOTE: CE-approved only using the correct DOCO components.

! It is the responsibility of the installation company to ensure that the chosen E-operator and panels comply with the product standard EN13241-1 and have carried out the necessary ITT.
If a wicket door is to be installed, it is the responsibility of the installation company to ensure that the complete door conforms to the product standard EN13241-1 and have carried out the necessary ITT.

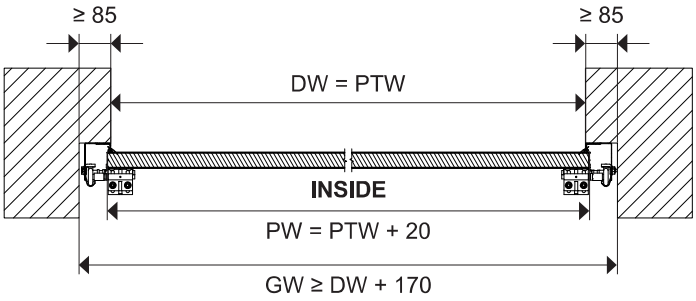
6. Fixing material building

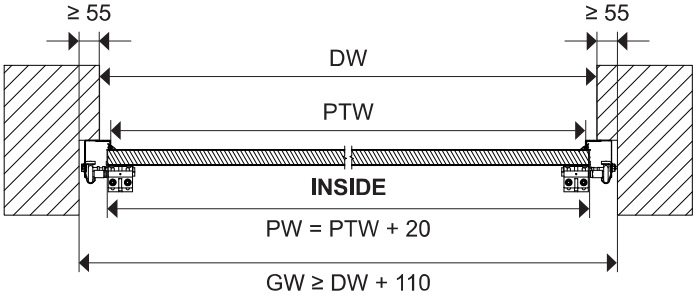
! The necessary fittings to fix the garage door to the building and/or ceiling, are not included!
It is the responsibility of the installer to make sure that the building structure is safe/strong enough, to accept the door and its fixings. The installer is also responsible for using the correct fixing materials on the right foundation (stone, concrete, steel, wood). In the image section there will be therefore no specification included.

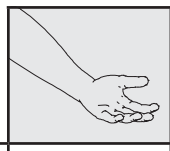
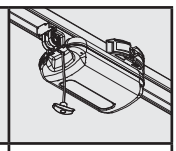
7. System overview



Minimum	Standard
SH = DH + 30	SH = DH + 60



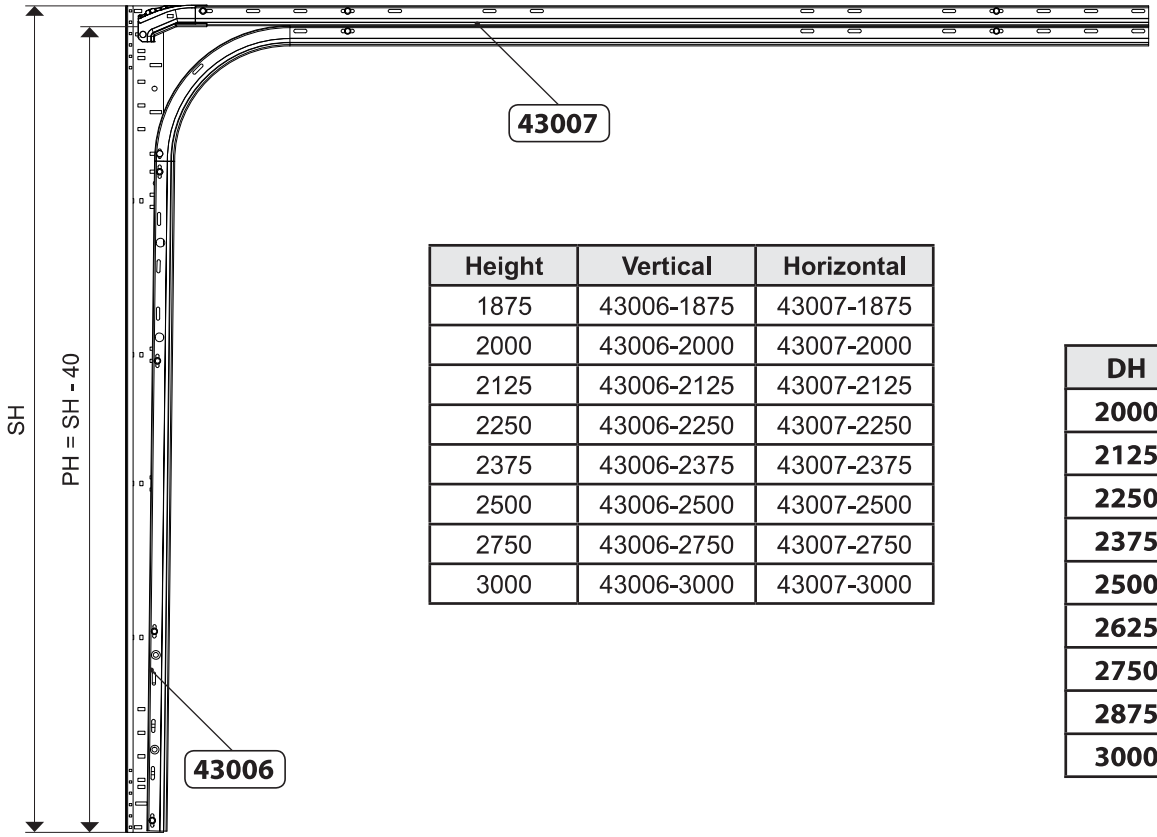


		
CH	SH + 130	SH + 130
PTH	SH - 235*	SH - 70

* With manual door stop (280020):
PTH = SH - 70

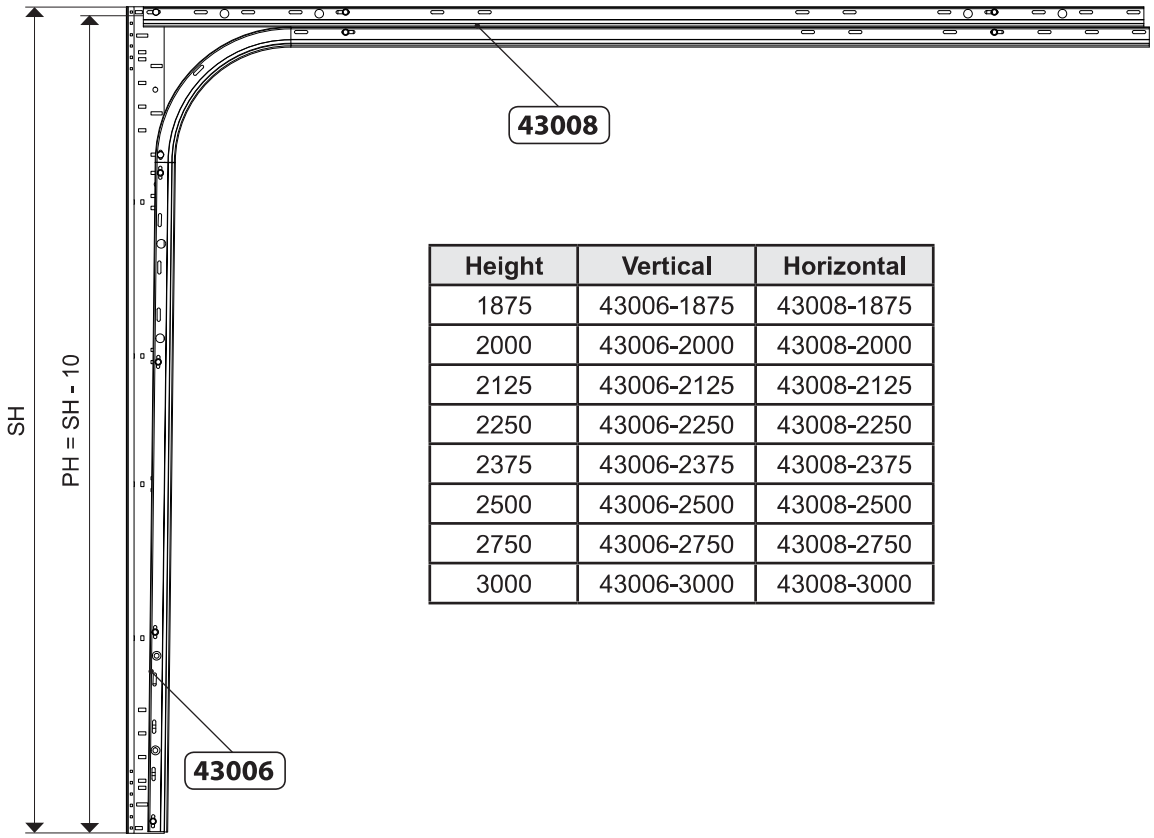
DH	Daylight height
DW	Daylight width
SH	System height
CH	Ceiling height
GW	Garage width
PTH	Pass through height
PTW	Pass through width
PH	Panel height
PW	Panel width

7.1 Pre-assembled rail set



Height	Vertical	Horizontal
1875	43006-1875	43007-1875
2000	43006-2000	43007-2000
2125	43006-2125	43007-2125
2250	43006-2250	43007-2250
2375	43006-2375	43007-2375
2500	43006-2500	43007-2500
2750	43006-2750	43007-2750
3000	43006-3000	43007-3000

DH	X
2000	7
2125	7¼
2250	7½
2375	8
2500	8¼
2625	8¾
2750	9
2875	9½
3000	9¾



Height	Vertical	Horizontal
1875	43006-1875	43008-1875
2000	43006-2000	43008-2000
2125	43006-2125	43008-2125
2250	43006-2250	43008-2250
2375	43006-2375	43008-2375
2500	43006-2500	43008-2500
2750	43006-2750	43008-2750
3000	43006-3000	43008-3000

7.2 Spring matrix

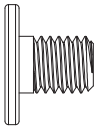
DH	2000	2125	2250	2375	2500	2625	2750	2875	3000
Spring \ Turns	7	7¼	7½	8	8¼	8¾	9	9½	9¾
3295005752	49 kg	52 kg	55 kg	58 kg	62 kg	65 kg	68 kg	71 kg	-
3295005512	52 kg	55 kg	59 kg	62 kg	65 kg	68 kg	-	-	-
3295005072	55 kg	59 kg	62 kg	66 kg	69 kg	-	-	-	-
3295004632	62 kg	65 kg	69 kg	-	-	-	-	-	-
3295507912	-	-	-	-	-	73 kg	76 kg	80 kg	83 kg
3295507532	-	-	-	-	73 kg	77 kg	80 kg	84 kg	88 kg
3295507202	-	-	-	-	77 kg	81 kg	85 kg	88 kg	92 kg
3295506772	68 kg	72 kg	73 kg	77 kg	81 kg	85 kg	-	-	-
3295506302	72 kg	76 kg	80 kg	85 kg	-	-	-	-	-
3295505882	78 kg	83 kg	88 kg	-	-	-	-	-	-
3296010212	-	-	-	-	-	-	89 kg	93 kg	98 kg
3296009822	-	-	-	-	-	-	93 kg	97 kg	101 kg
3296009242	-	-	-	-	89 kg	94 kg	98 kg	103 kg	107 kg
3296008622	-	-	-	93 kg	98 kg	102 kg	107 kg	112 kg	117 kg
3296008122	85 kg	90 kg	95 kg	100 kg	106 kg	111 kg	-	-	-
3296007602	91 kg	97 kg	102 kg	108 kg	114 kg	-	-	-	-
3296007172	98 kg	104 kg	110 kg	116 kg	-	-	-	-	-
3296006812	104 kg	111 kg	117 kg	-	-	-	-	-	-
3296511822	-	-	-	-	-	-	116 kg	115 kg	129 kg
3296510782	-	-	-	-	-	119 kg	125 kg	131 kg	137 kg
3296510192	-	-	-	-	122 kg	128 kg	134 kg	140 kg	146 kg
3296509712	-	-	-	124 kg	130 kg	137 kg	-	-	-
3296509232	111 kg	117 kg	124 kg	131 kg	138 kg	-	-	-	-
3296508812	117 kg	124 kg	131 kg	139 kg	-	-	-	-	-
3296508422	123 kg	131 kg	138 kg	-	-	-	-	-	-
3397011212	-	-	-	-	-	-	-	-	-
3397010662	-	-	-	-	-	-	143 kg	150 kg	156 kg
3397010072	-	-	-	-	-	145 kg	152 kg	159 kg	165 kg
3397009752	-	-	-	-	146 kg	153 kg	161 kg	168 kg	-
3397009162	-	-	-	146 kg	154 kg	162 kg	170 kg	-	-
3397008862	130 kg	138 kg	146 kg	154 kg	163 kg	-	-	-	-

Lifetime expectation less than 15.000 cycles

Notes:
- Based on 15.000 cycles
- Only for E-operator doors. For manually driven doors: calculate with separate DOCO Spring Calculator

8. Fasteners and tools

A 14024



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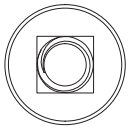
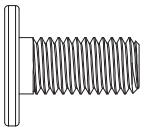
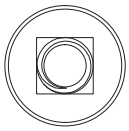


Ø 17 mm

B 14023

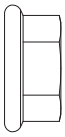


M8 x 17



Ø 17 mm

C 14022



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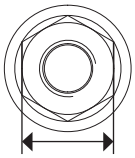
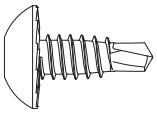


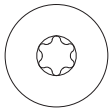
13 mm

10 Nm

D 150113

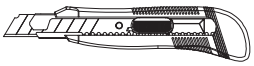


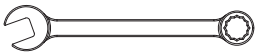
ST6,3 x 16



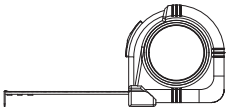
T30
Ø 14 mm

10 Nm





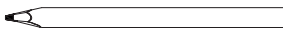
13 mm

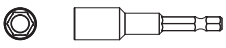


≥ 5 m

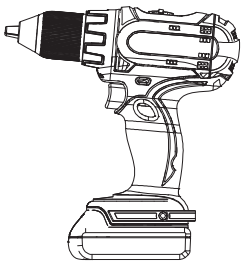
Ø 4,5 mm

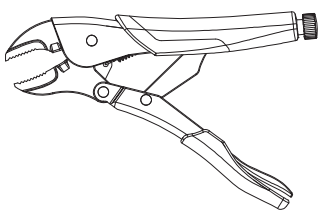
T30





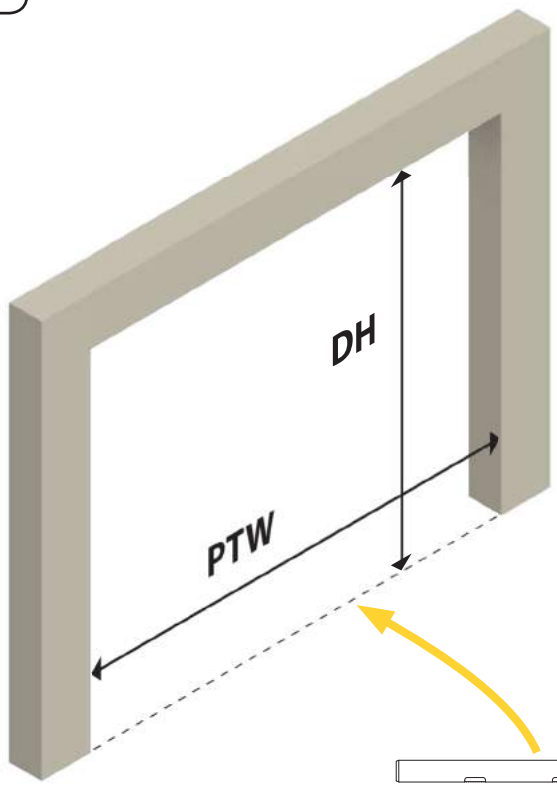
7 / 10 / 13 mm



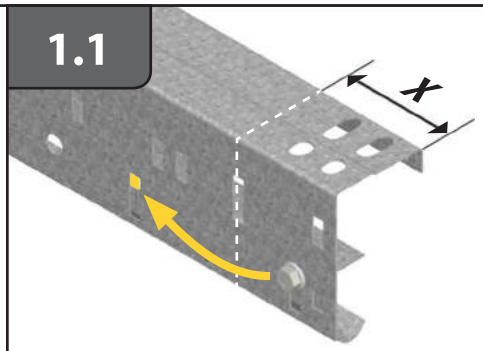


8.1 Assembly

1

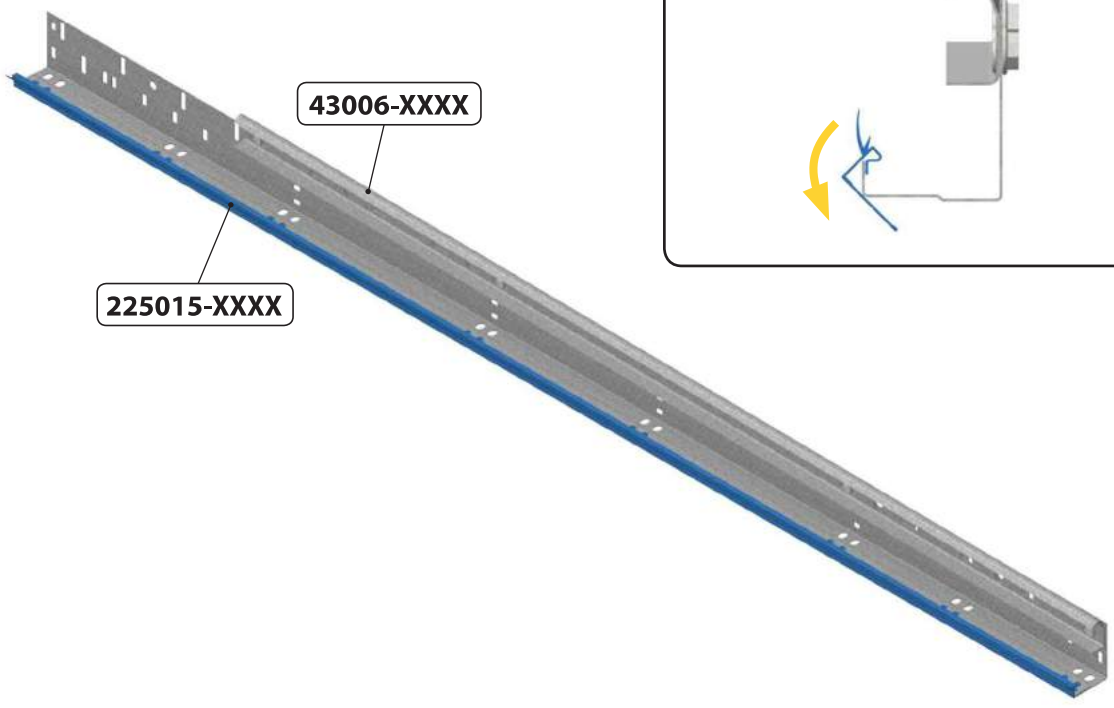


1.1

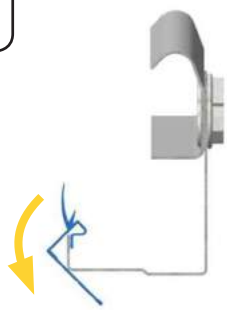


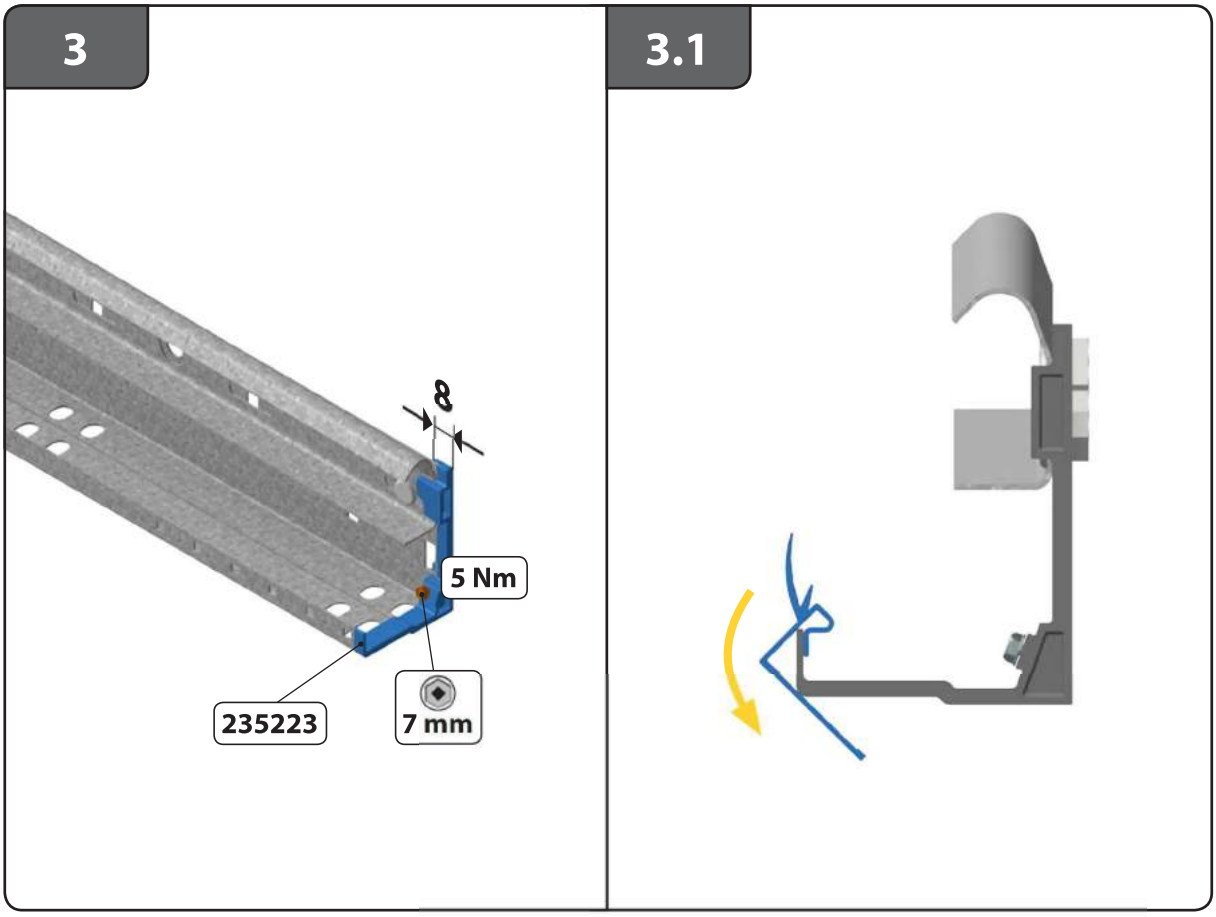
DH	X
≤ 2500	≤ 125
2501 - 3000	≤ 250

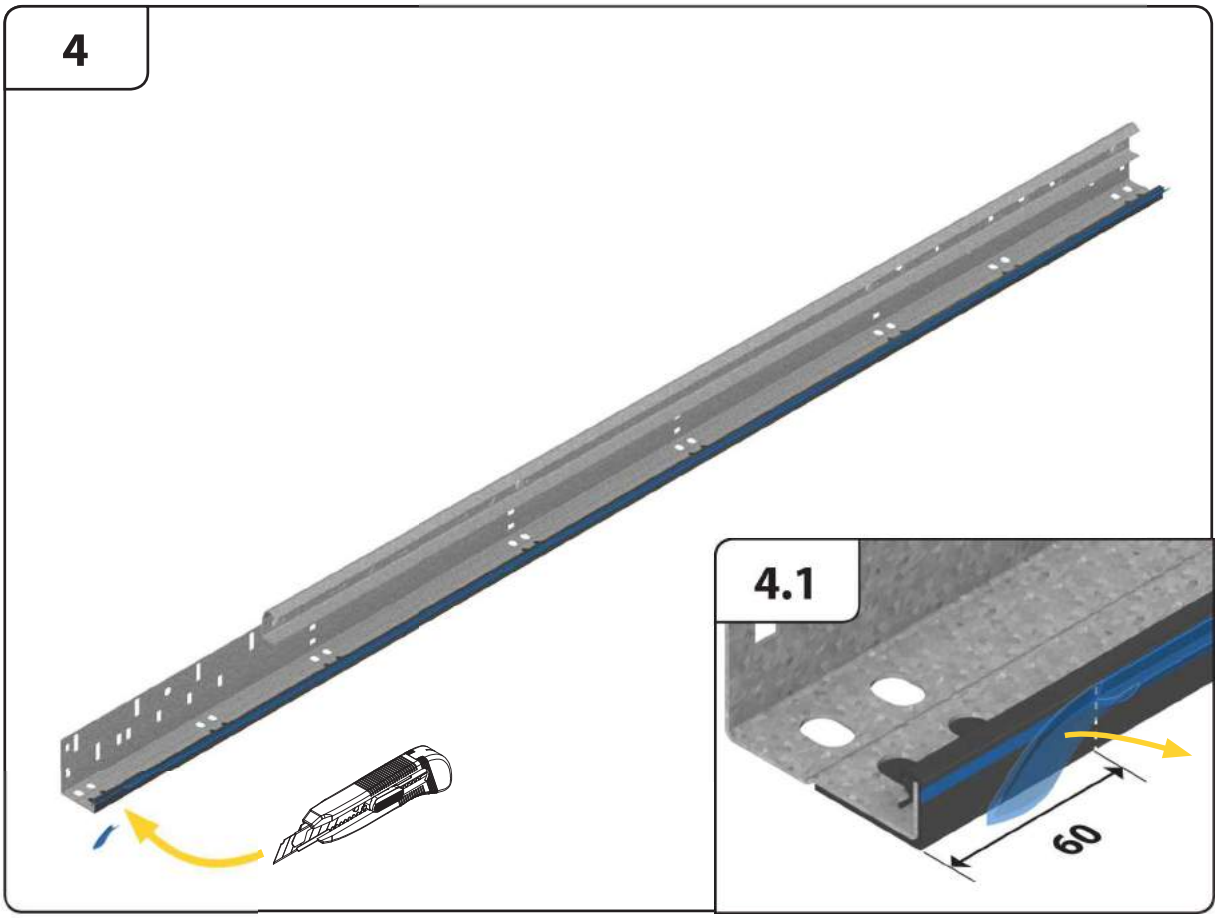
2

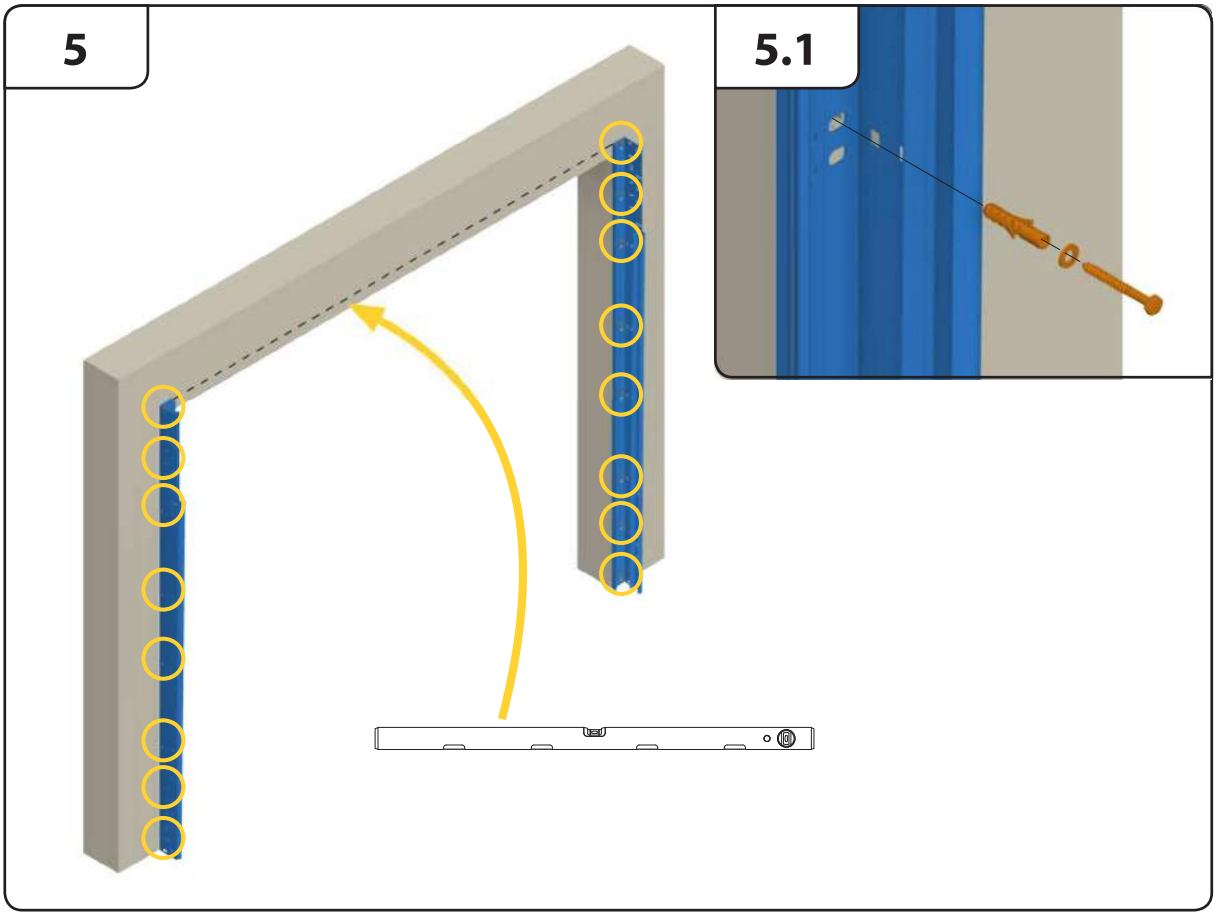


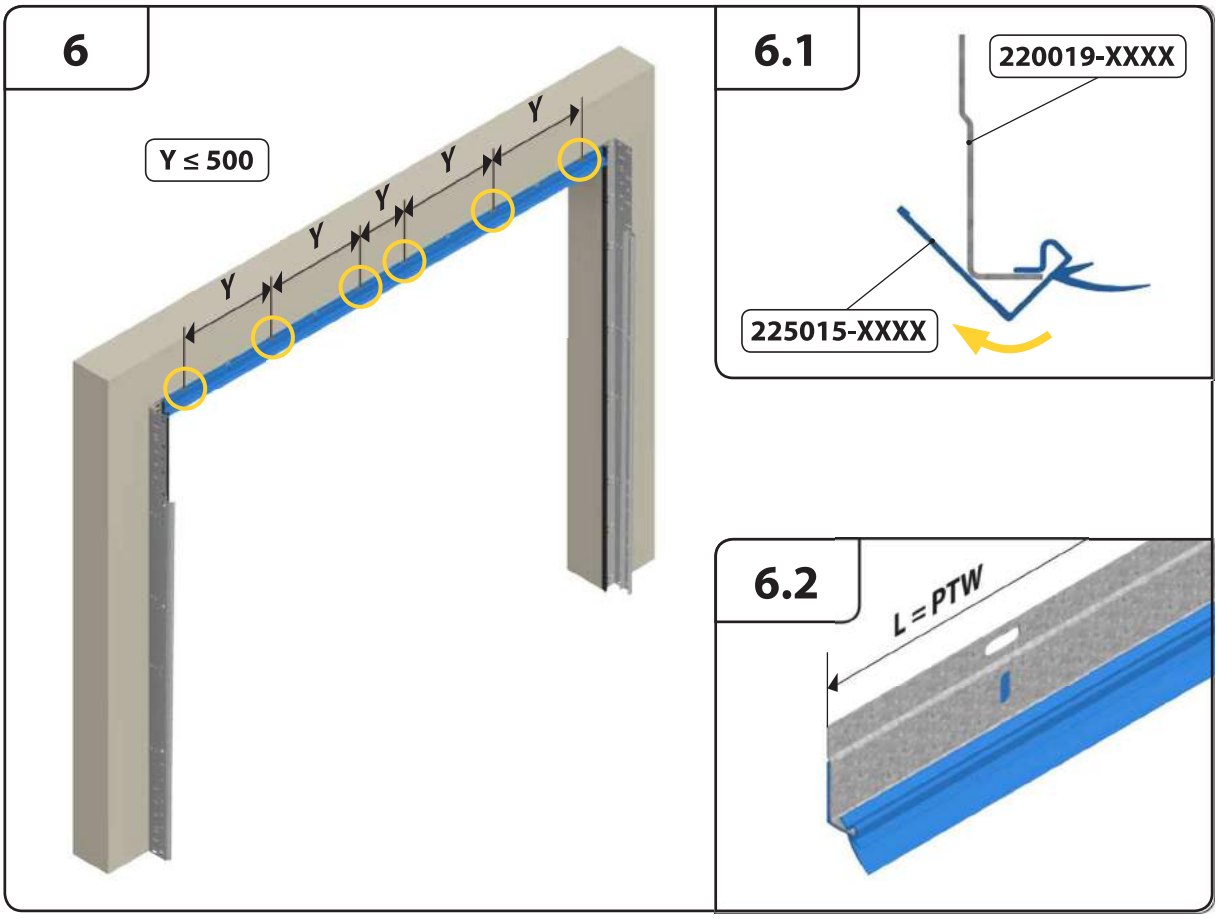
2.1

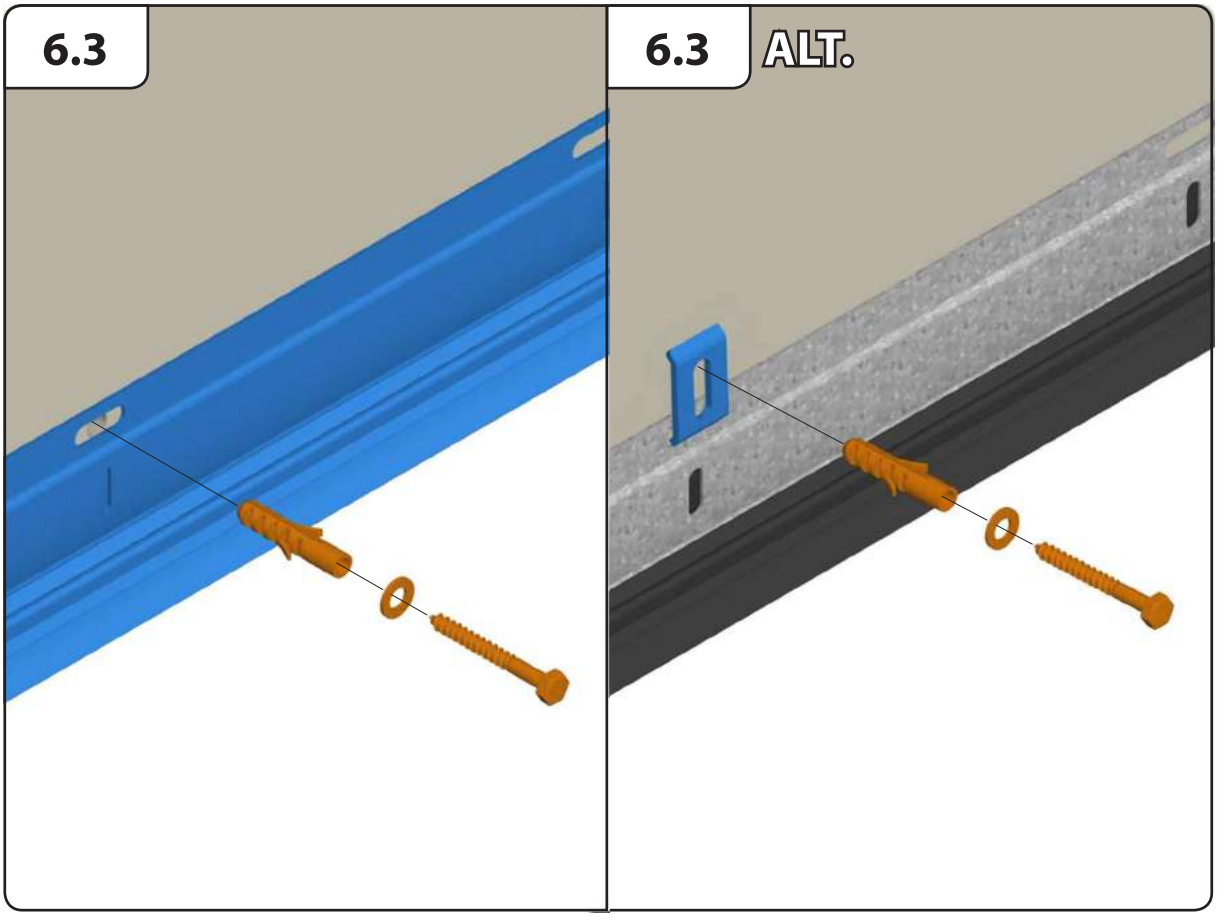


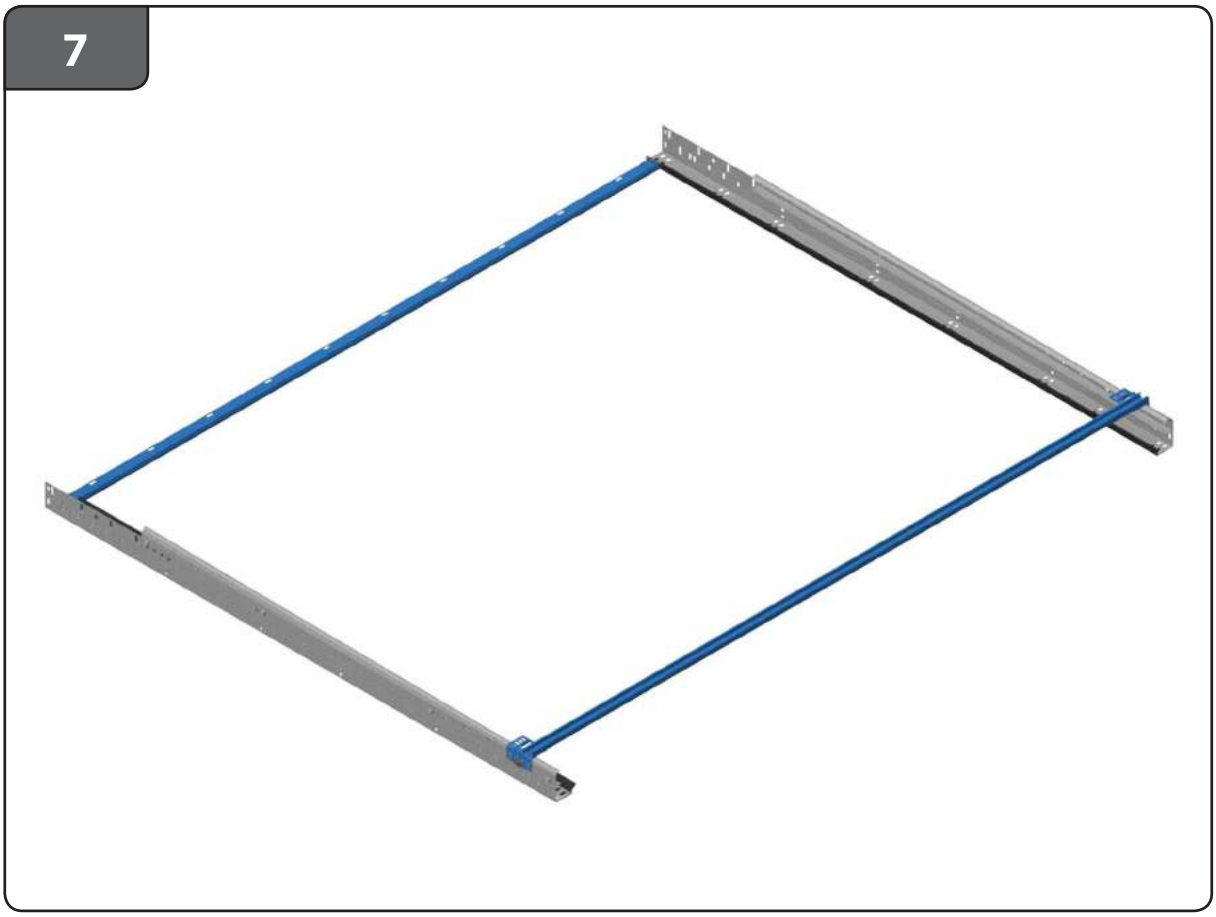

3
8
5 Nm
235223
7 mm
3.1


4
4.1
60


5
5.1


6
Y ≤ 500
Y
Y
Y
Y
Y
6.1
220019-XXXX
225015-XXXX
6.2
L = PTW


6.3
6.3
ALT.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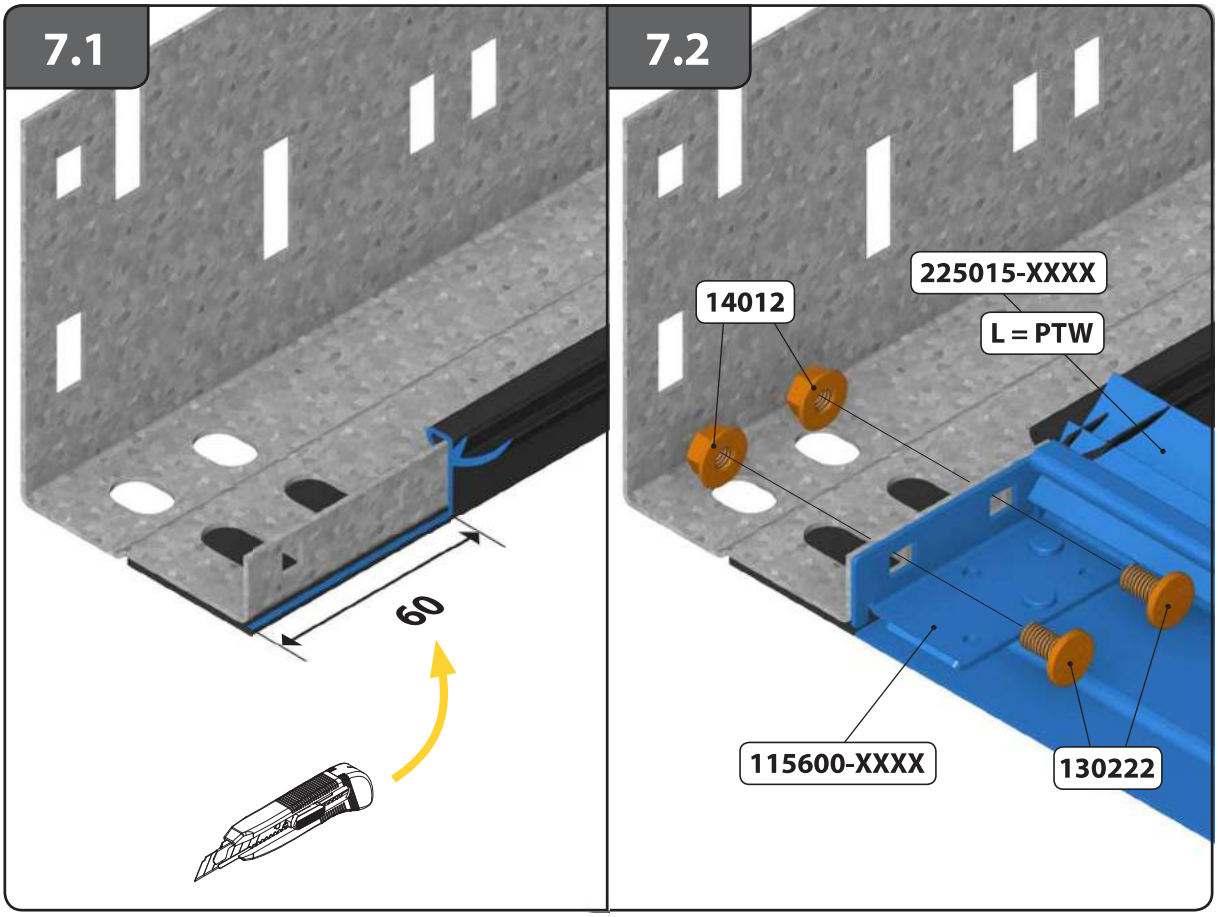
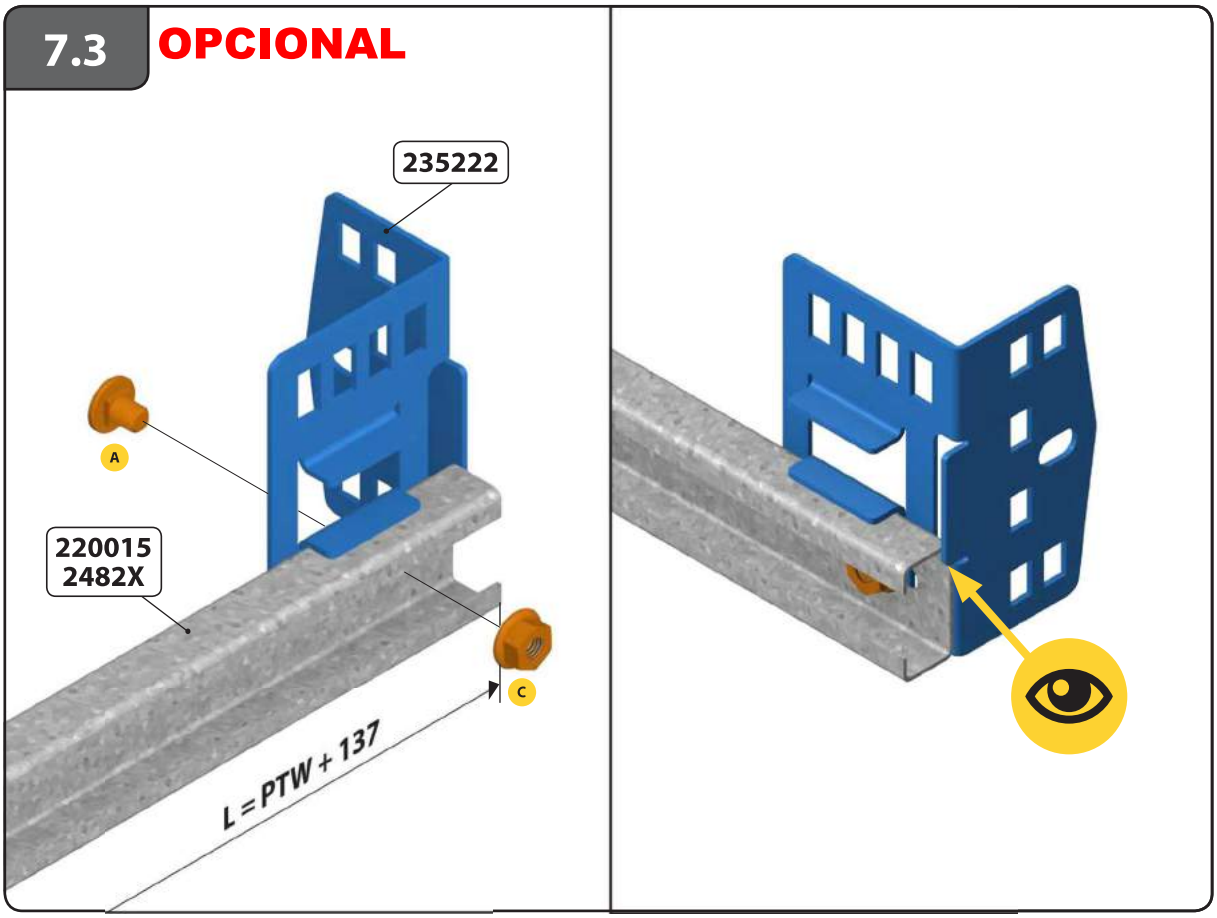
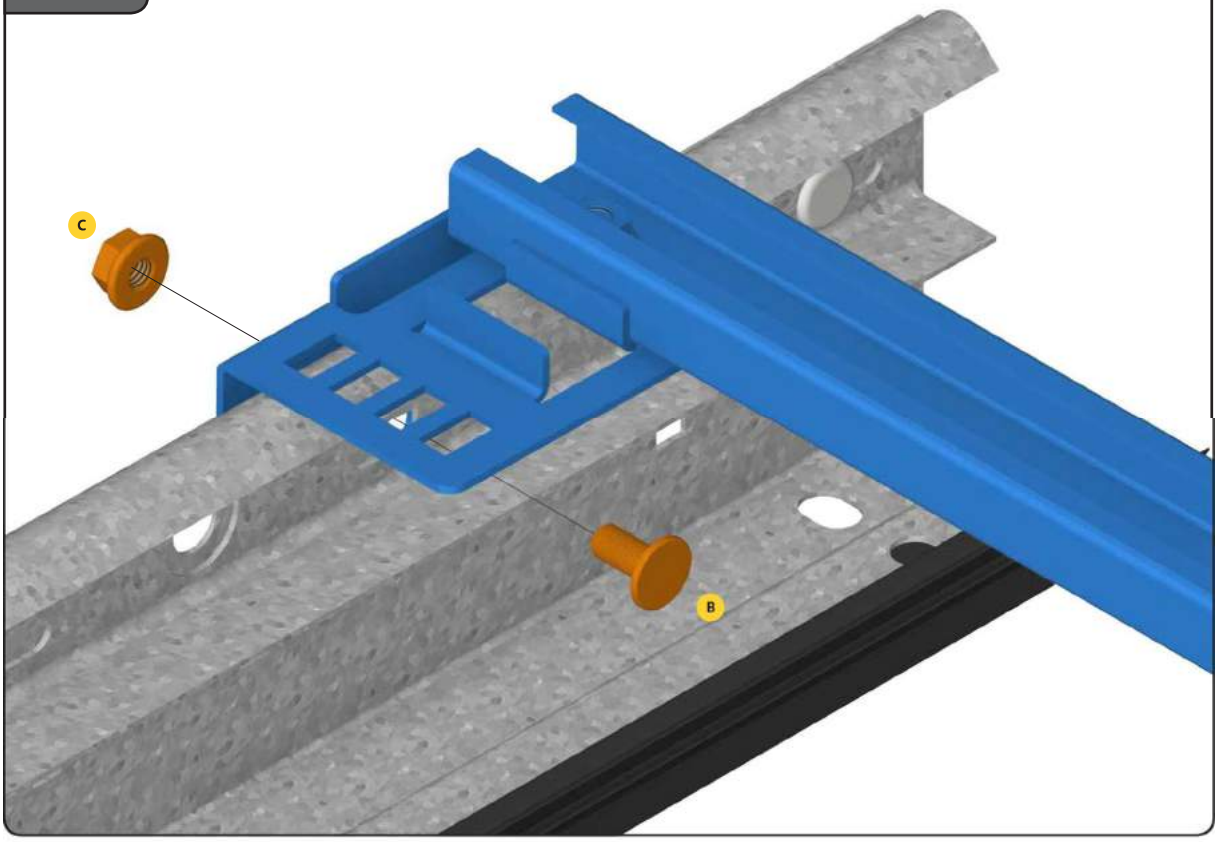
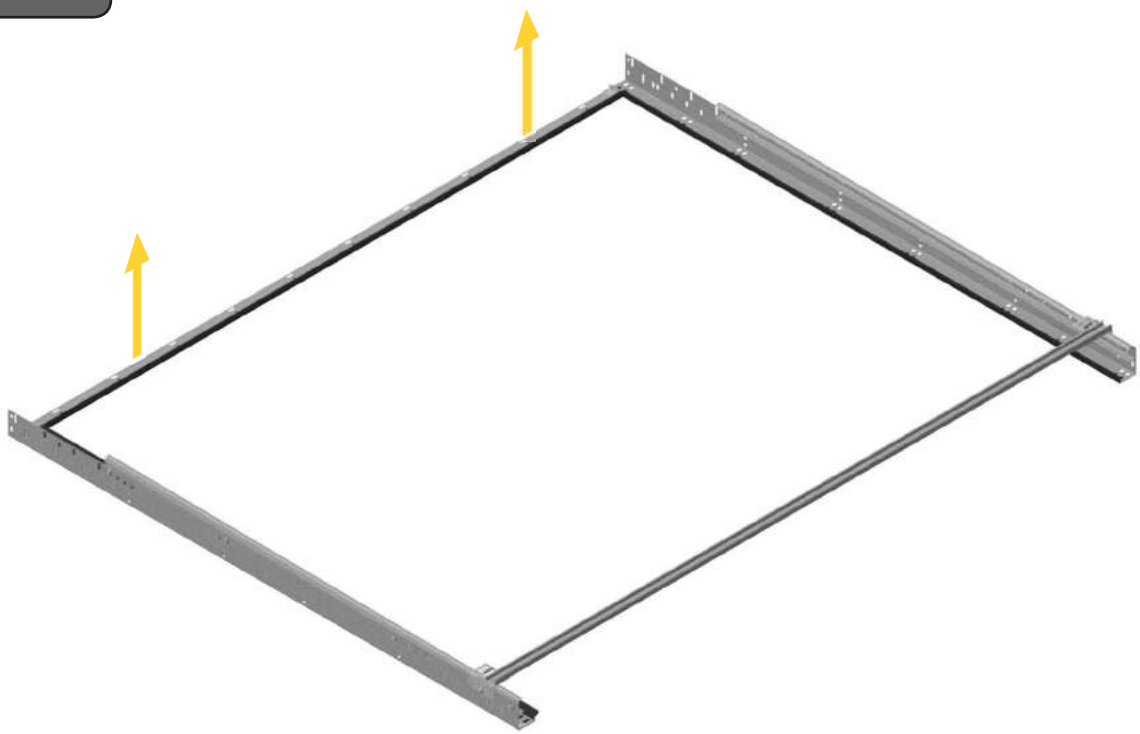

7.1
60
7.2
14012
225015-XXXX
L = PTW
115600-XXXX
130222

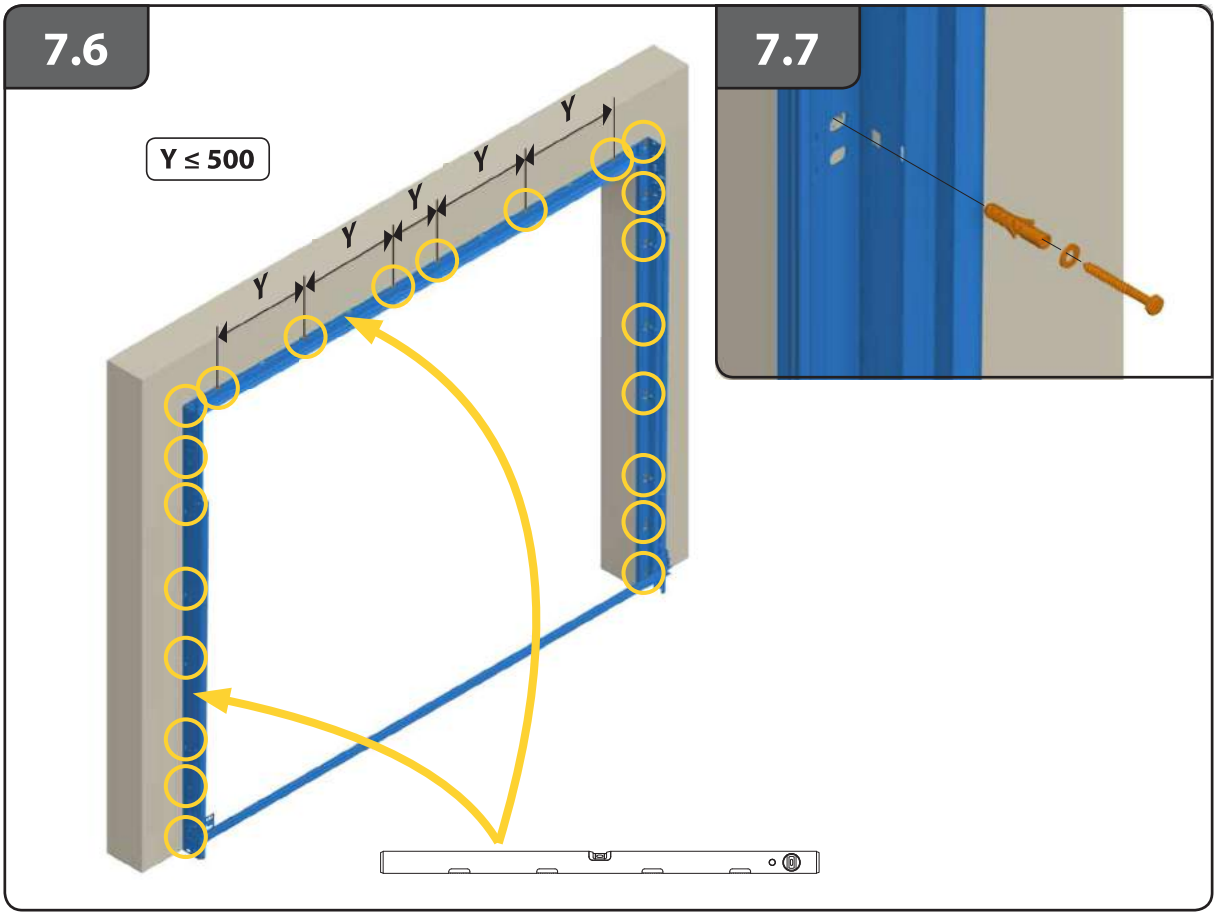

7.3
OPCIONAL
235222
A
220015
2482X
C
L = PTW + 137

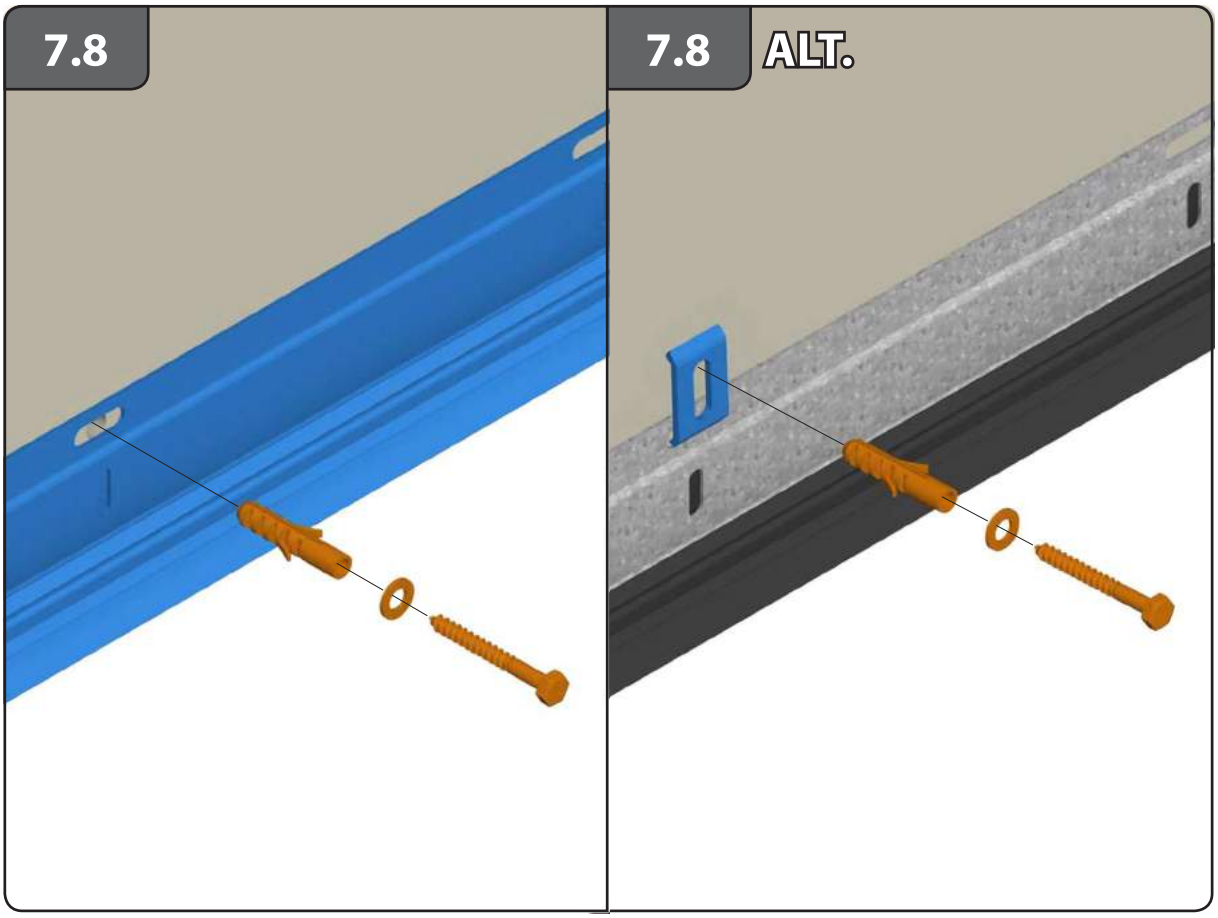
7.4 OPCIONAL



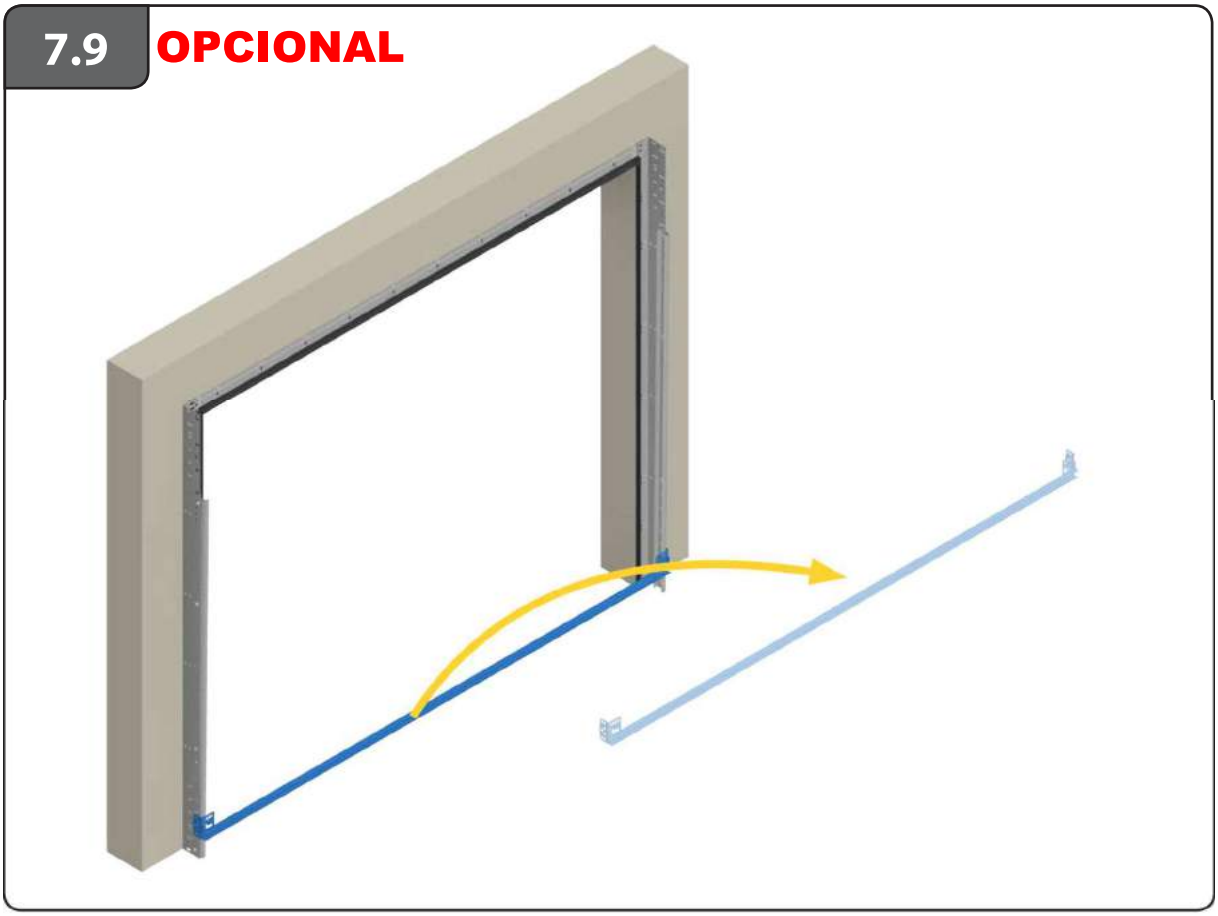
7.5




7.6
Y ≤ 500
Y
Y
Y
Y
Y
7.7


7.8
7.8
ALT.

7.9 OPCIONAL



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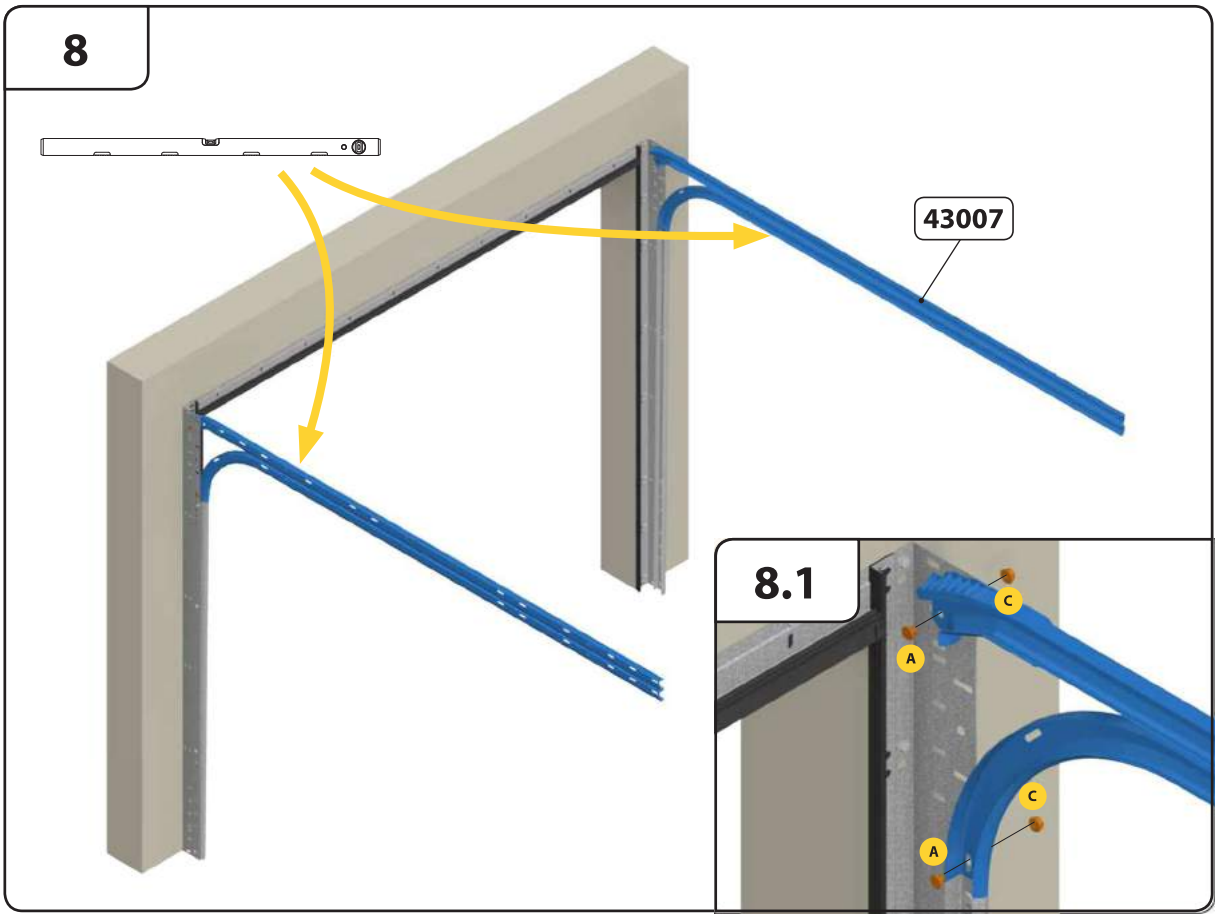
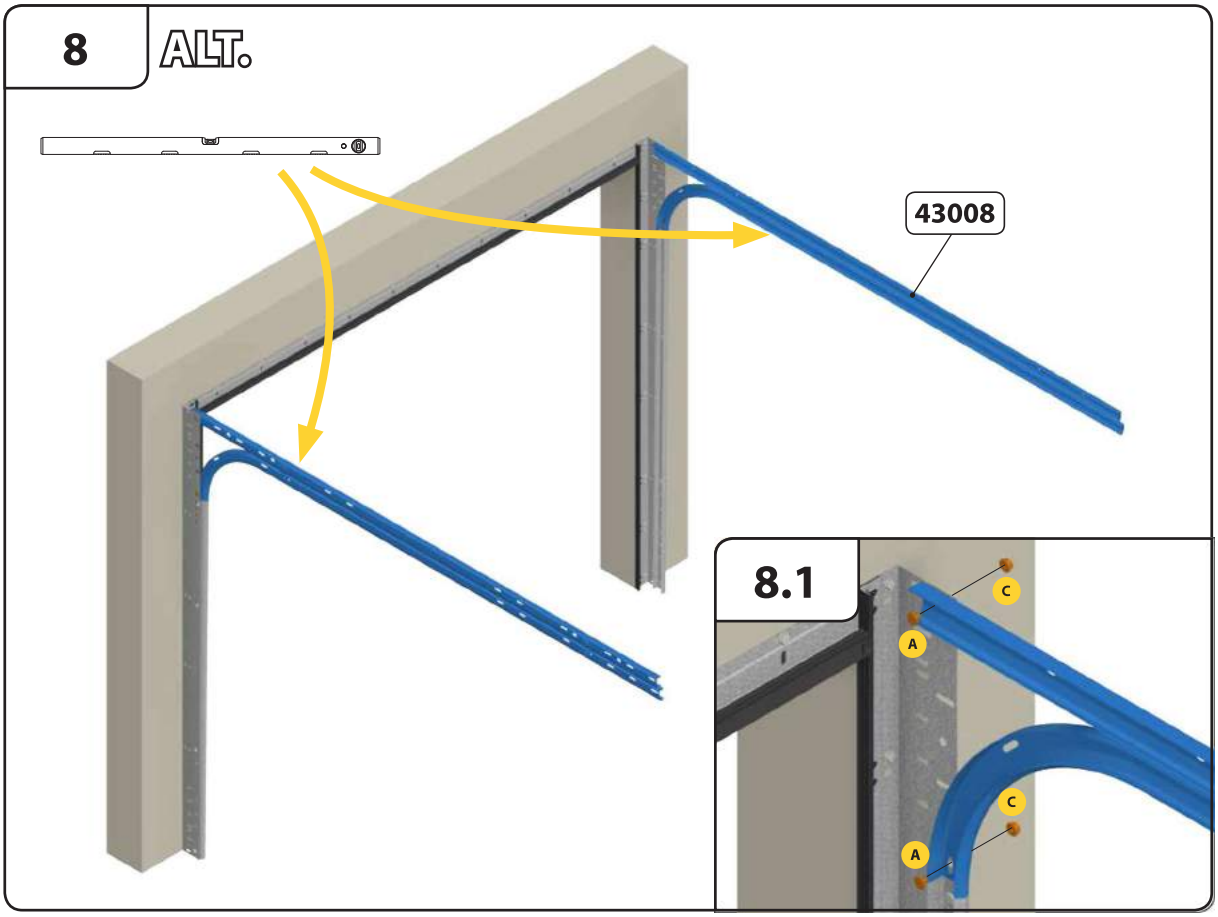
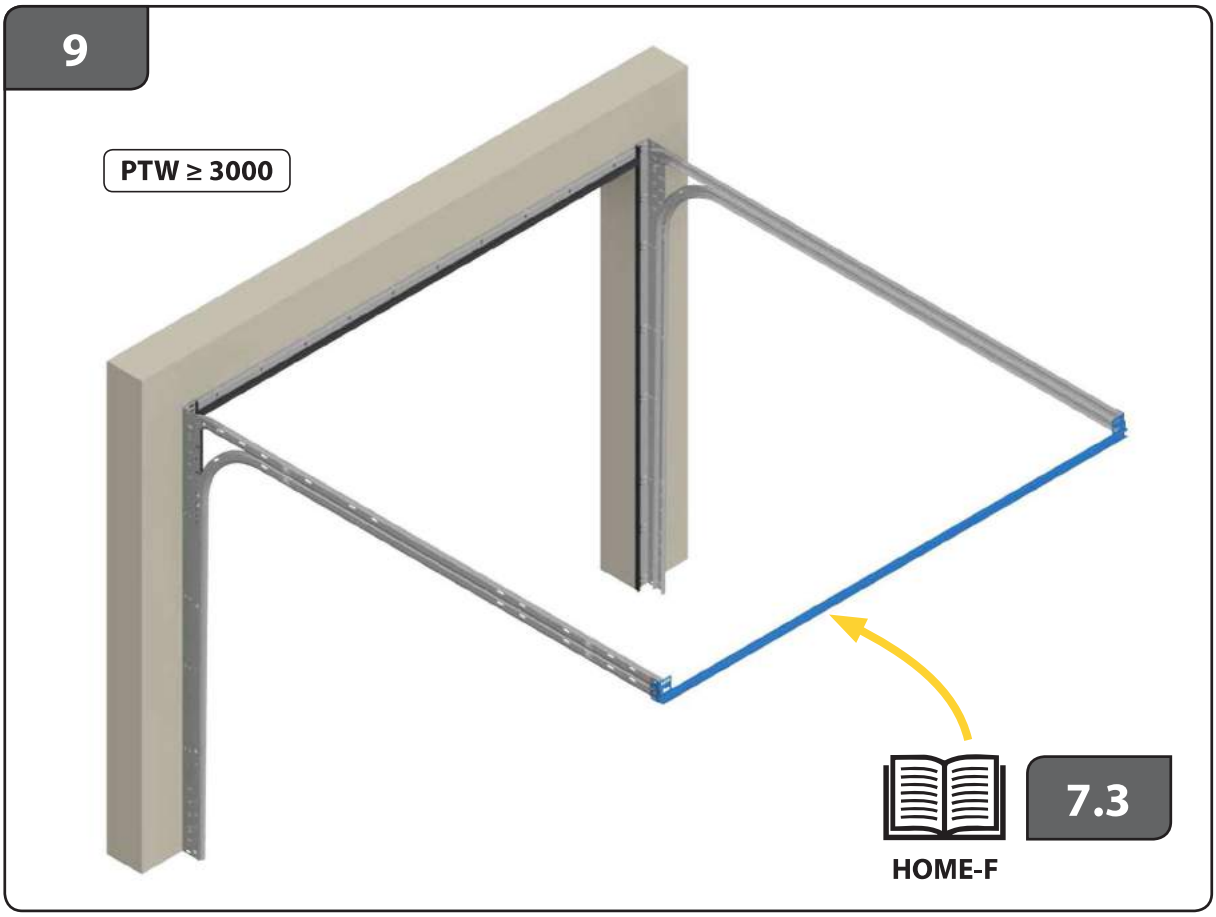
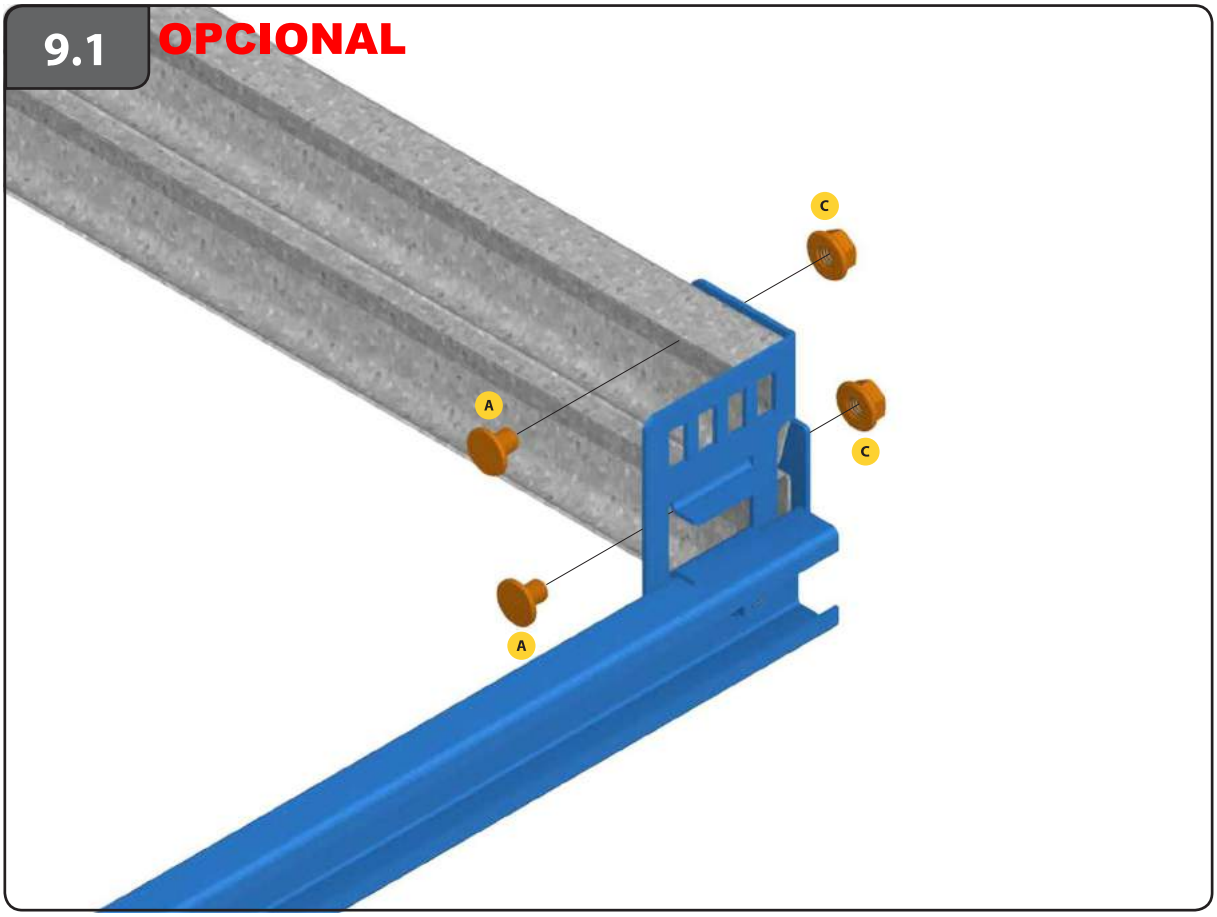



8
ALT.
43008
8.1
C
A
C
A


9
PTW ≥ 3000
7.3
HOME-F

9.1 OPCIONAL



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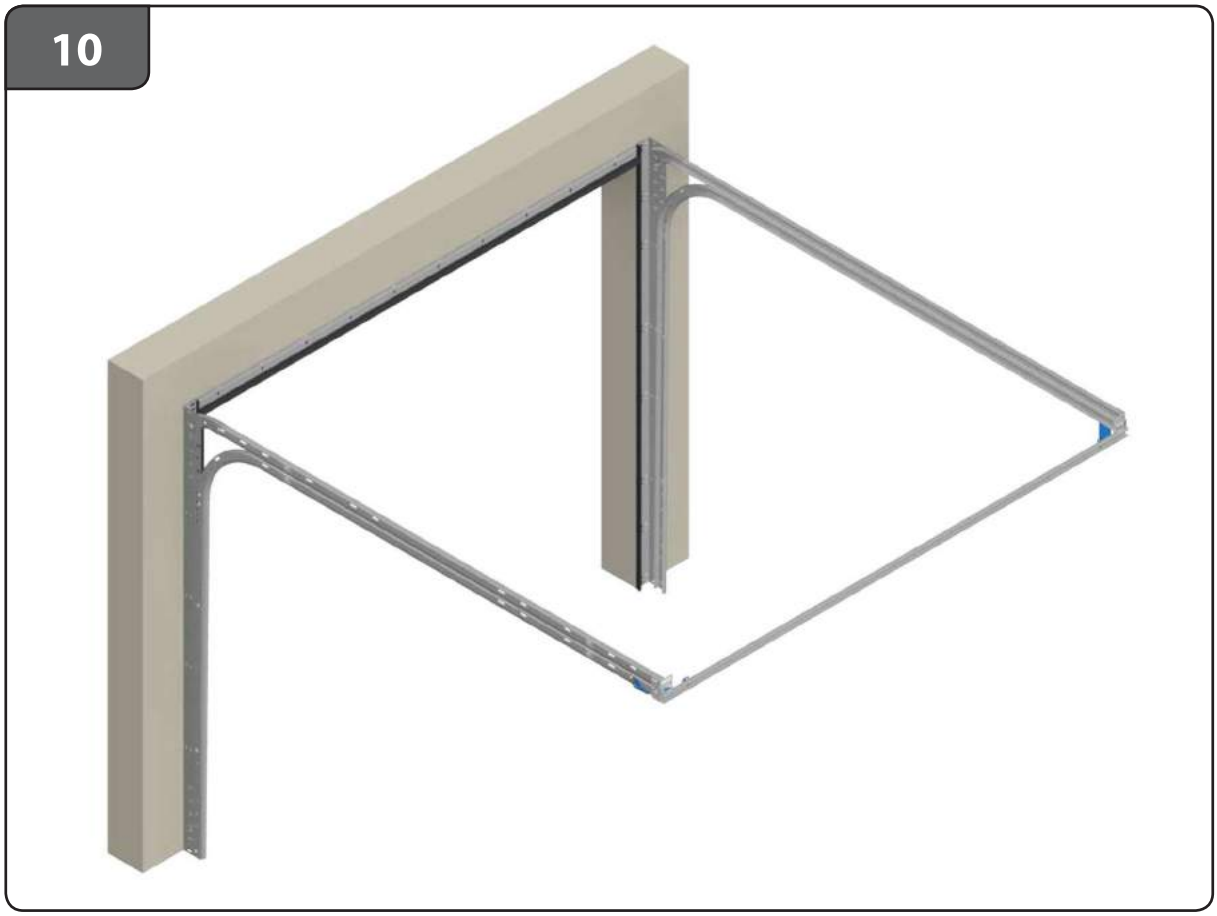
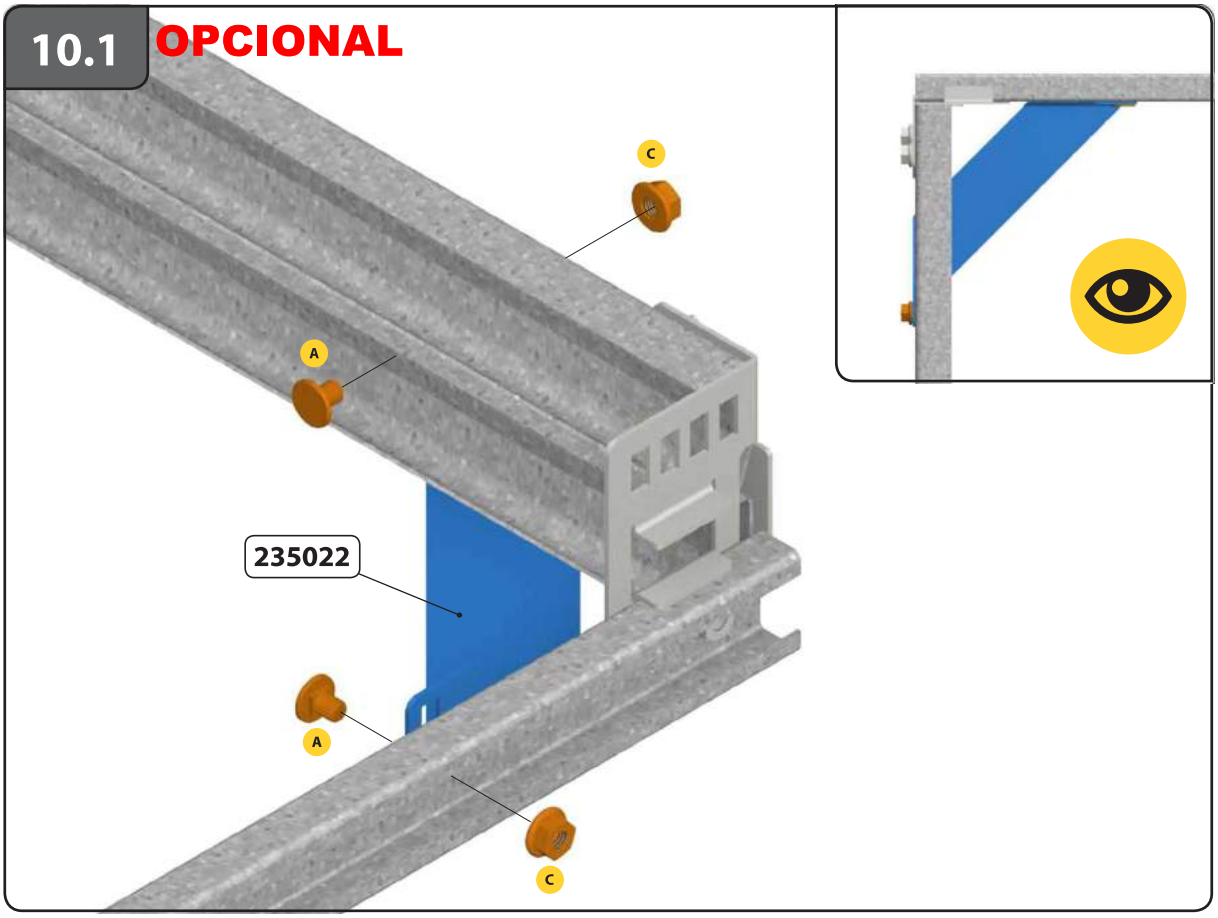
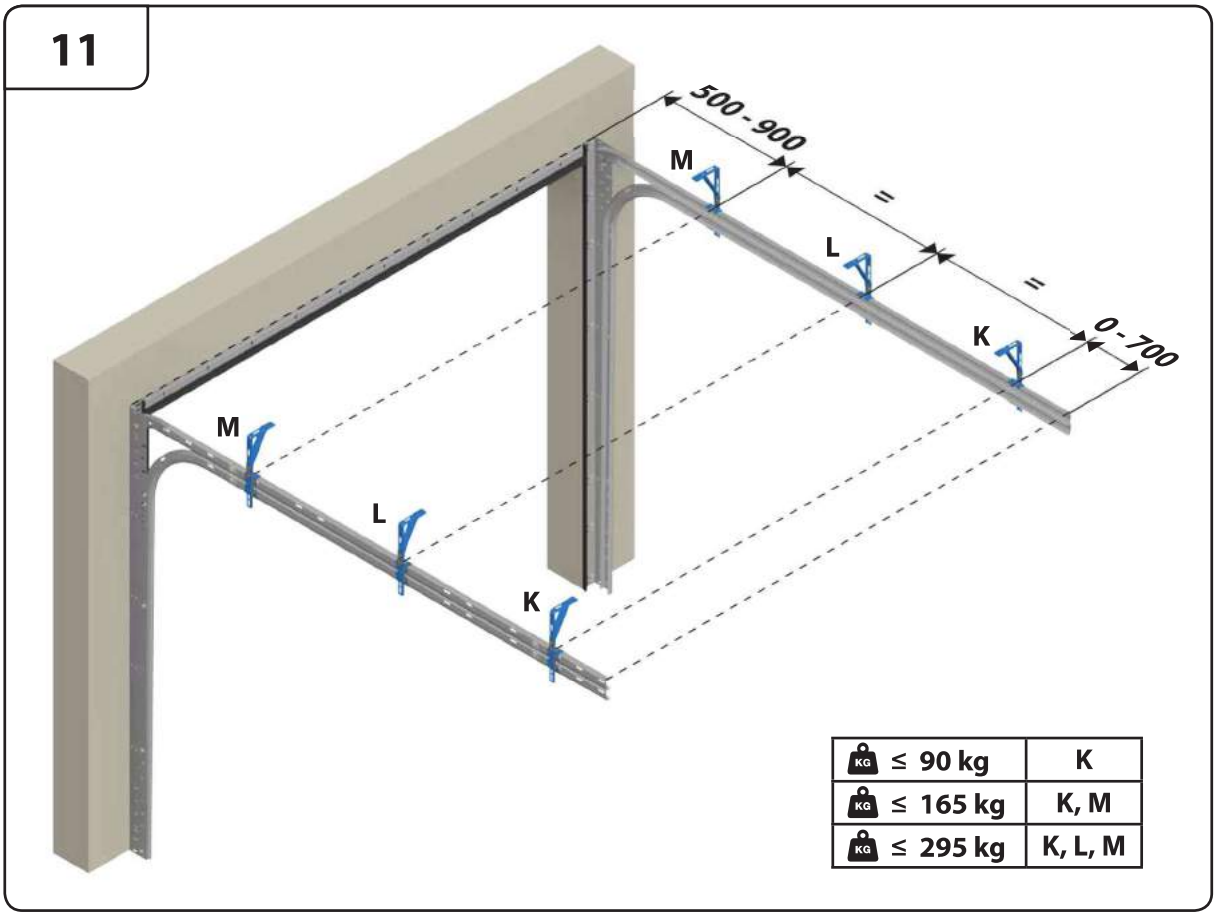


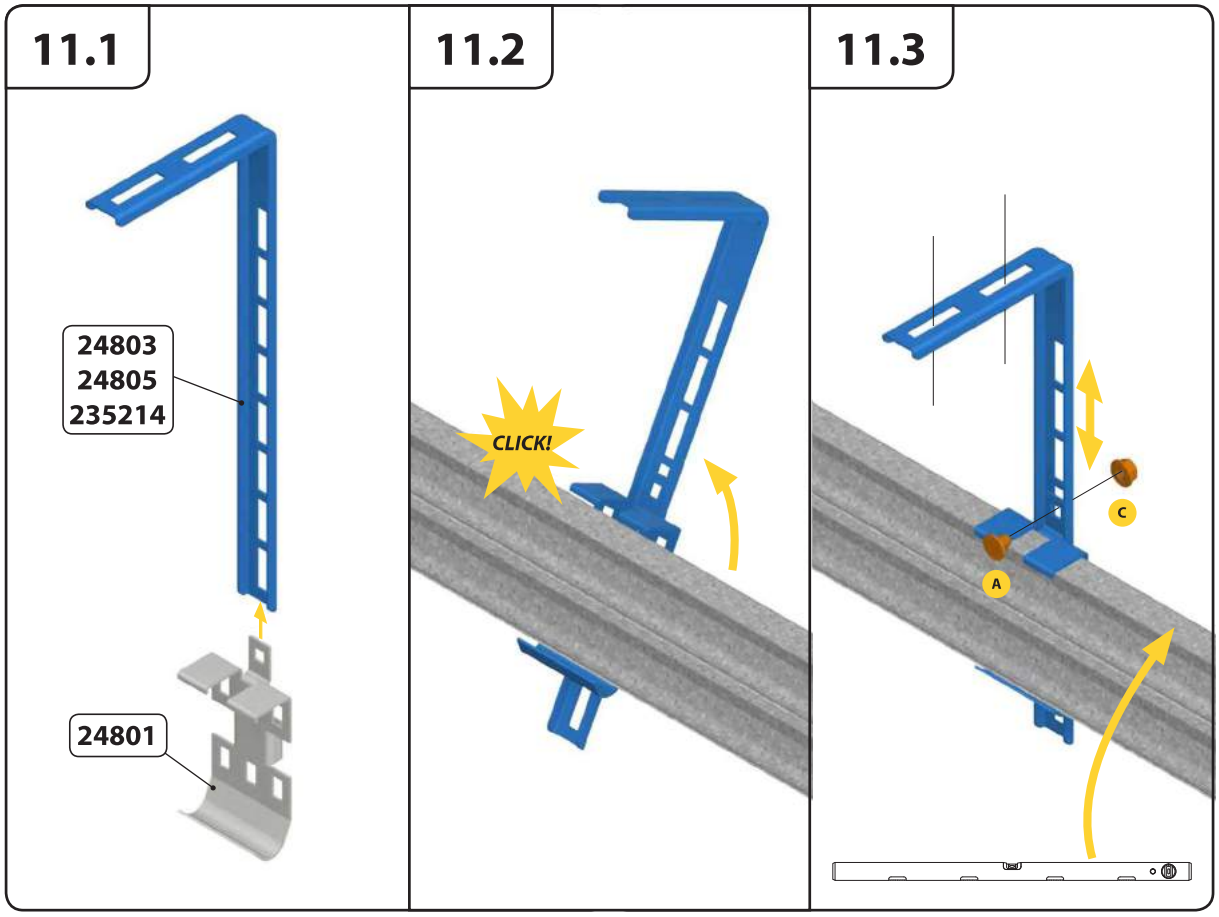
10.1 OPCIONAL

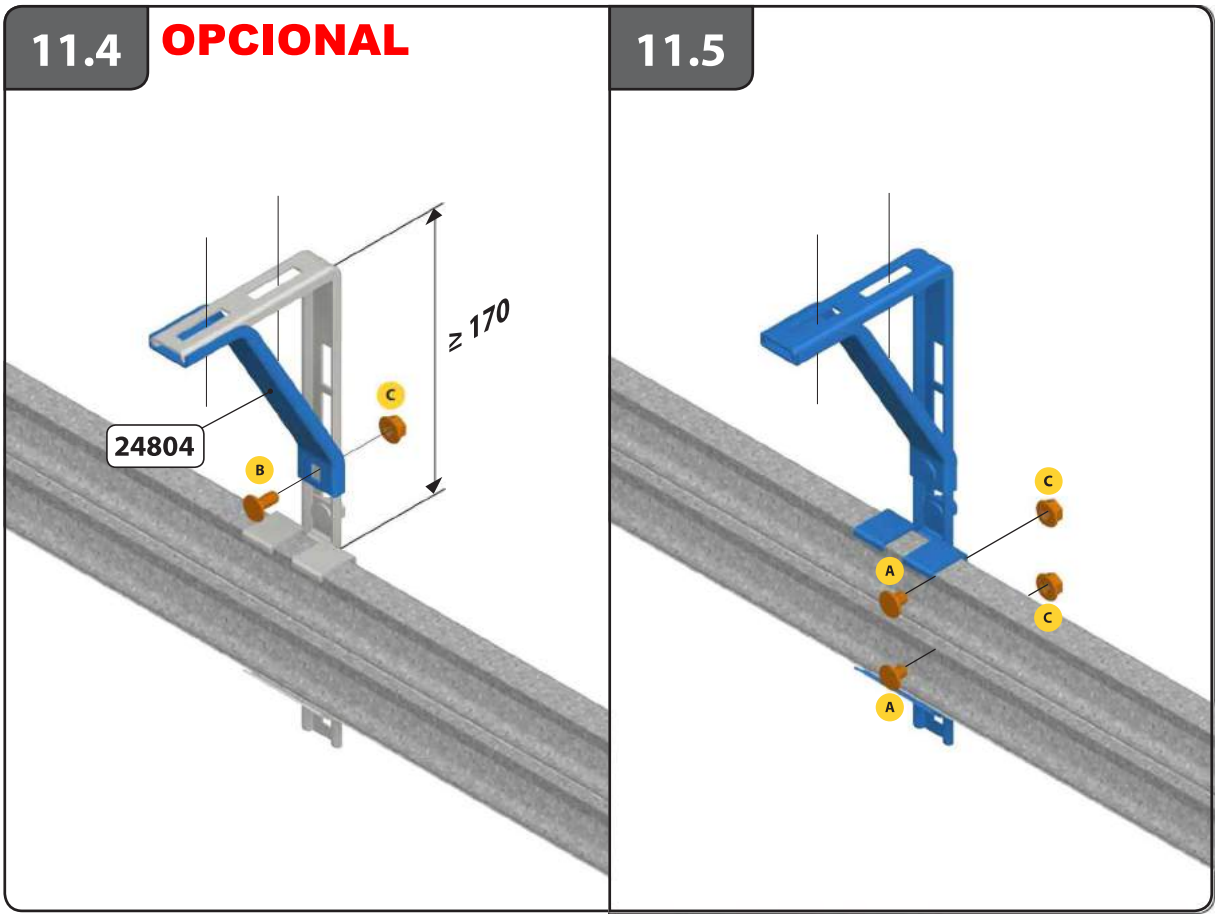


11

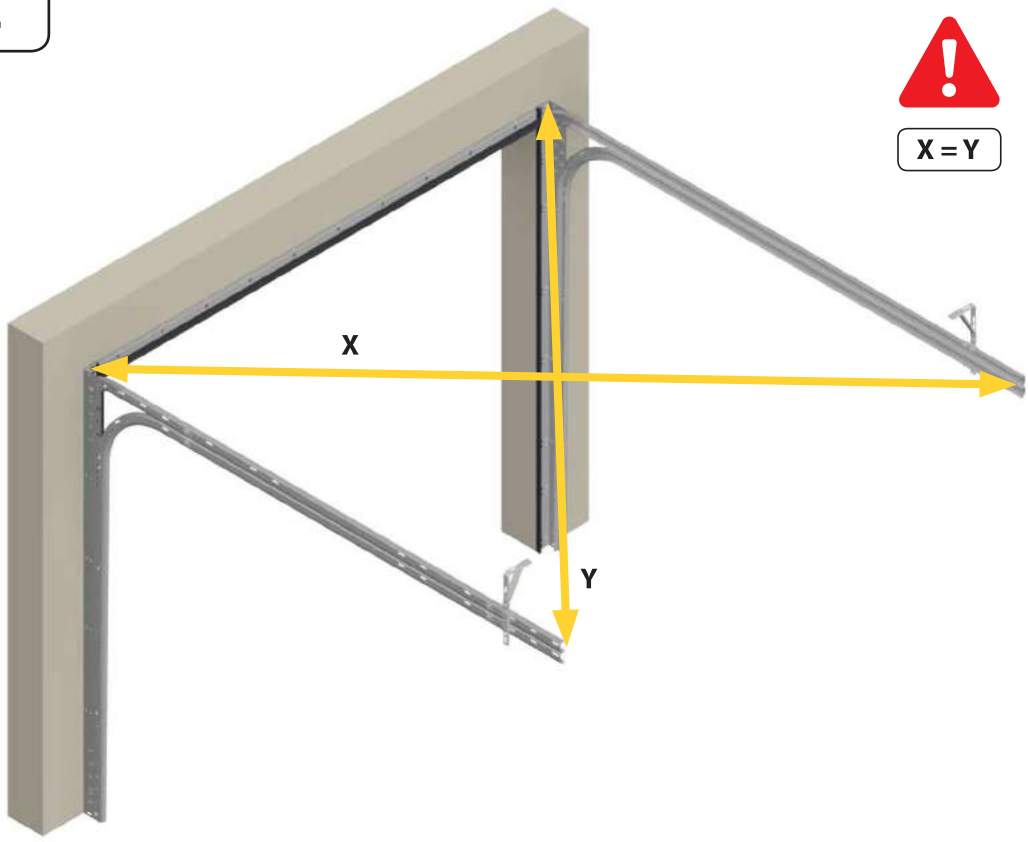


≤ 90 kg	K
≤ 165 kg	K, M
≤ 295 kg	K, L, M

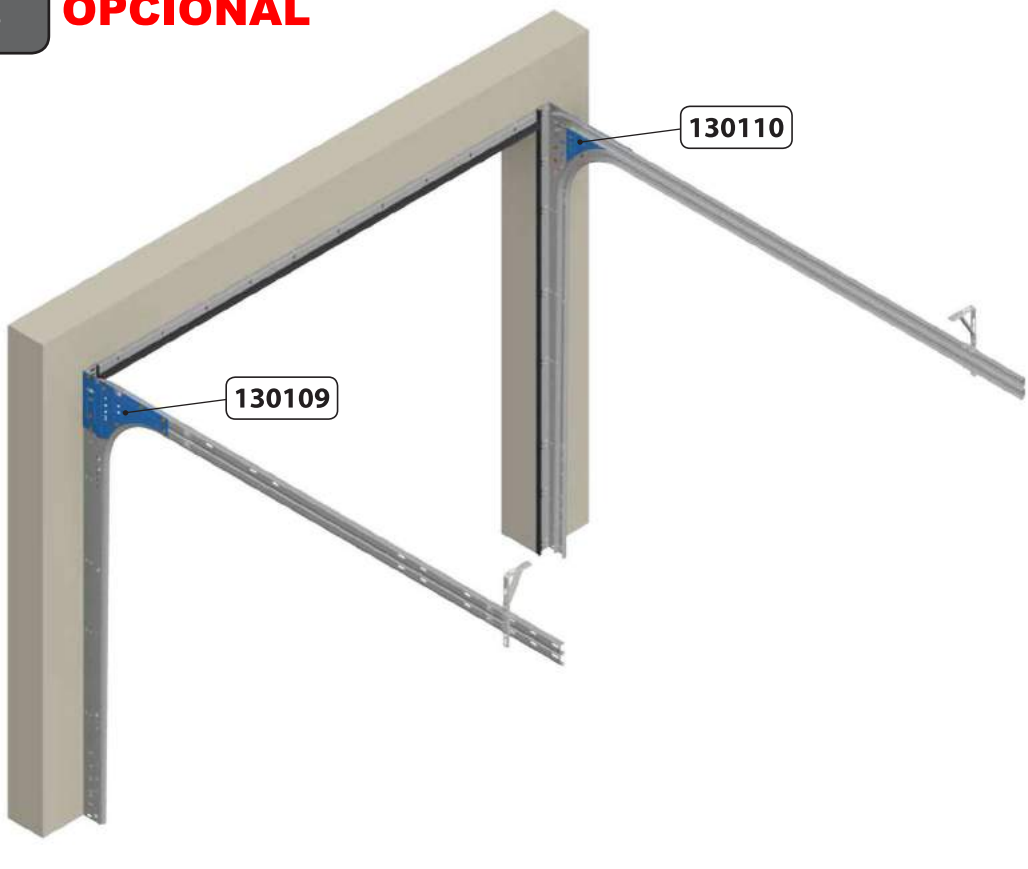

11.1
24803
24805
235214
24801
11.2
CLICK!
11.3
C
A

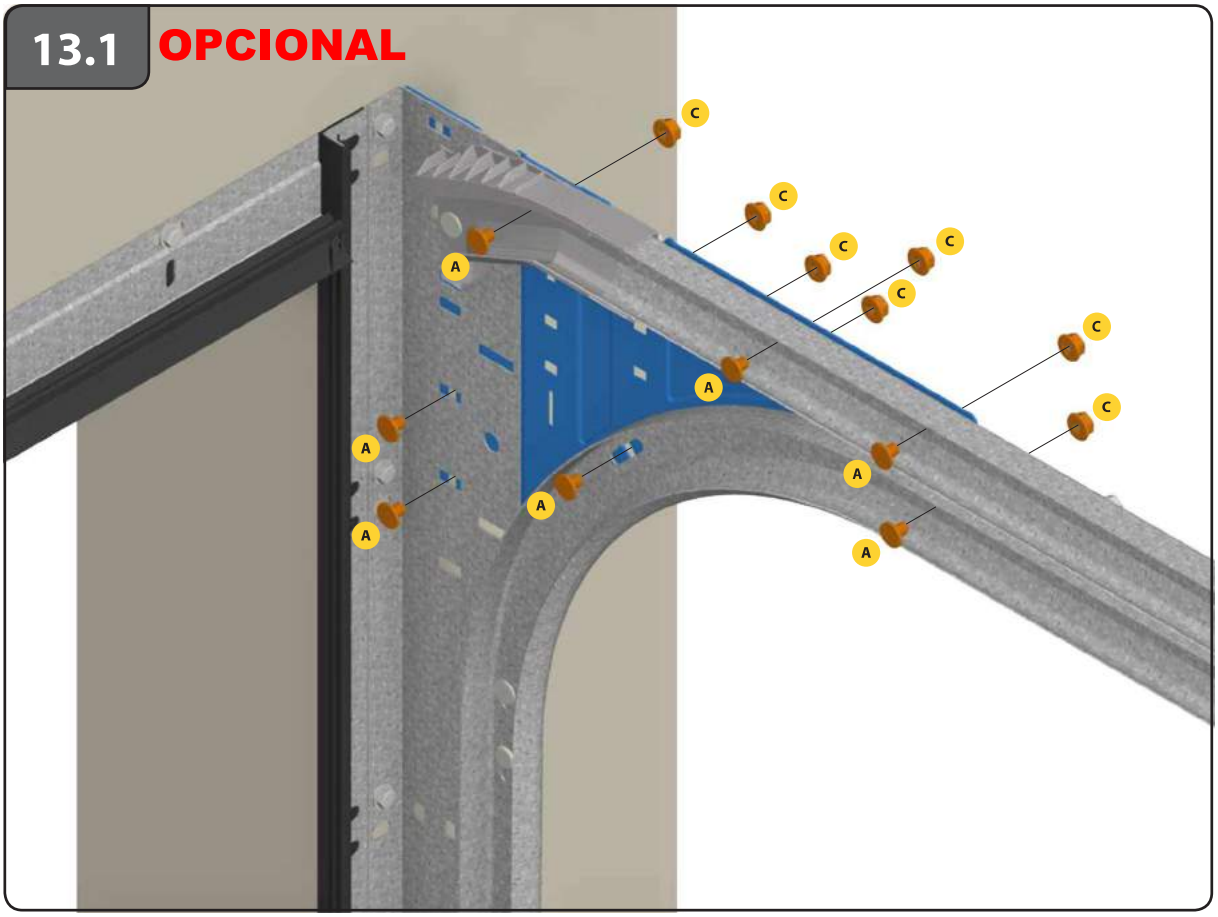

11.4
OPCIONAL
24804
B
C
≥ 170
11.5
A
C
C
A

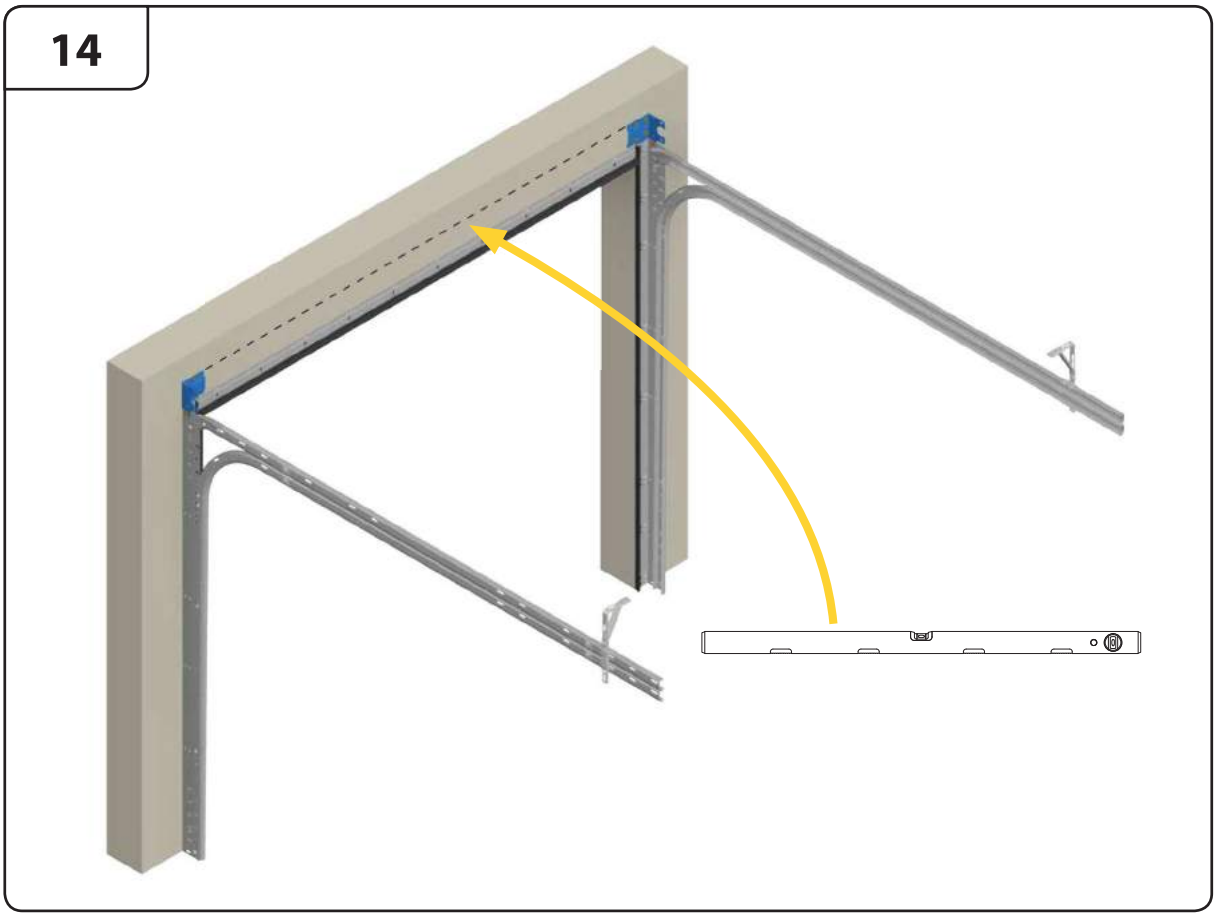
12

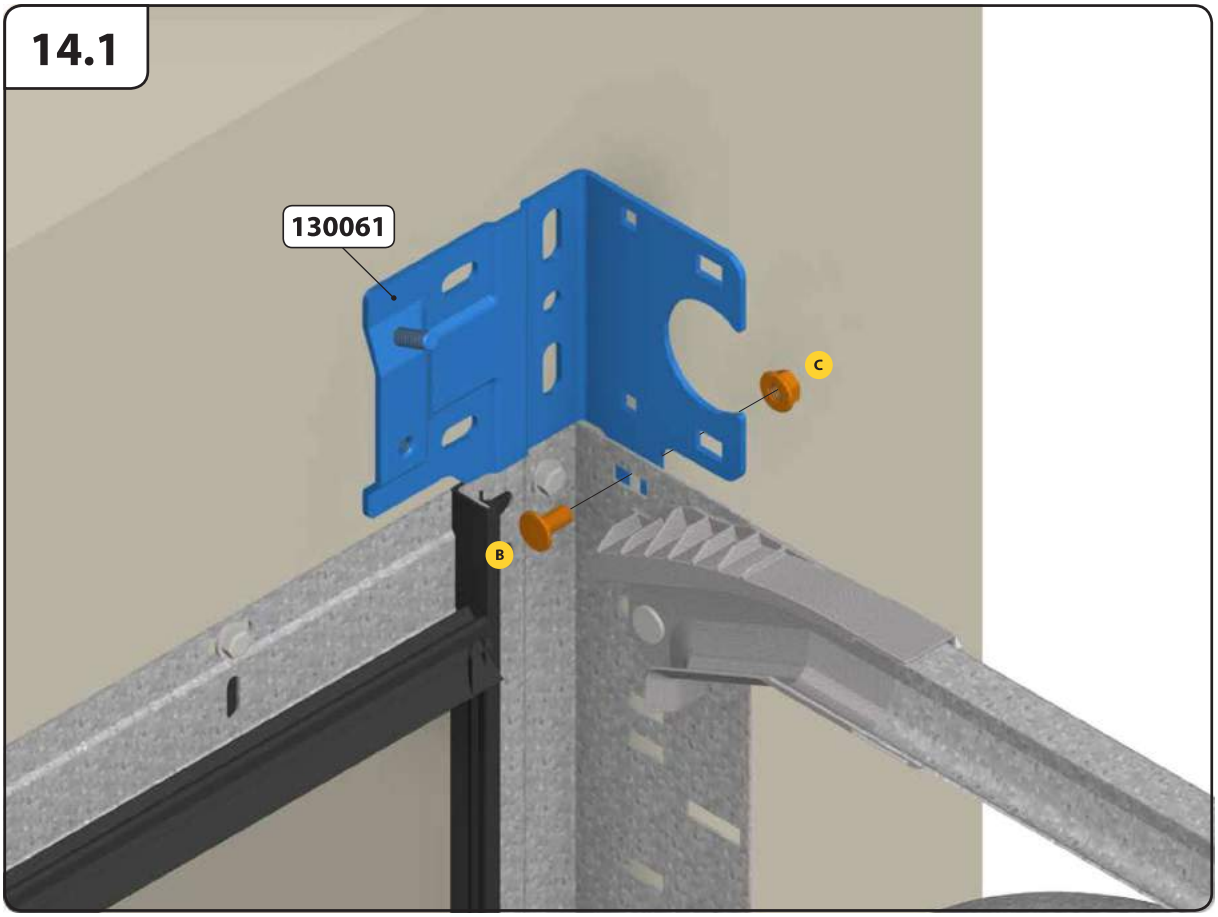


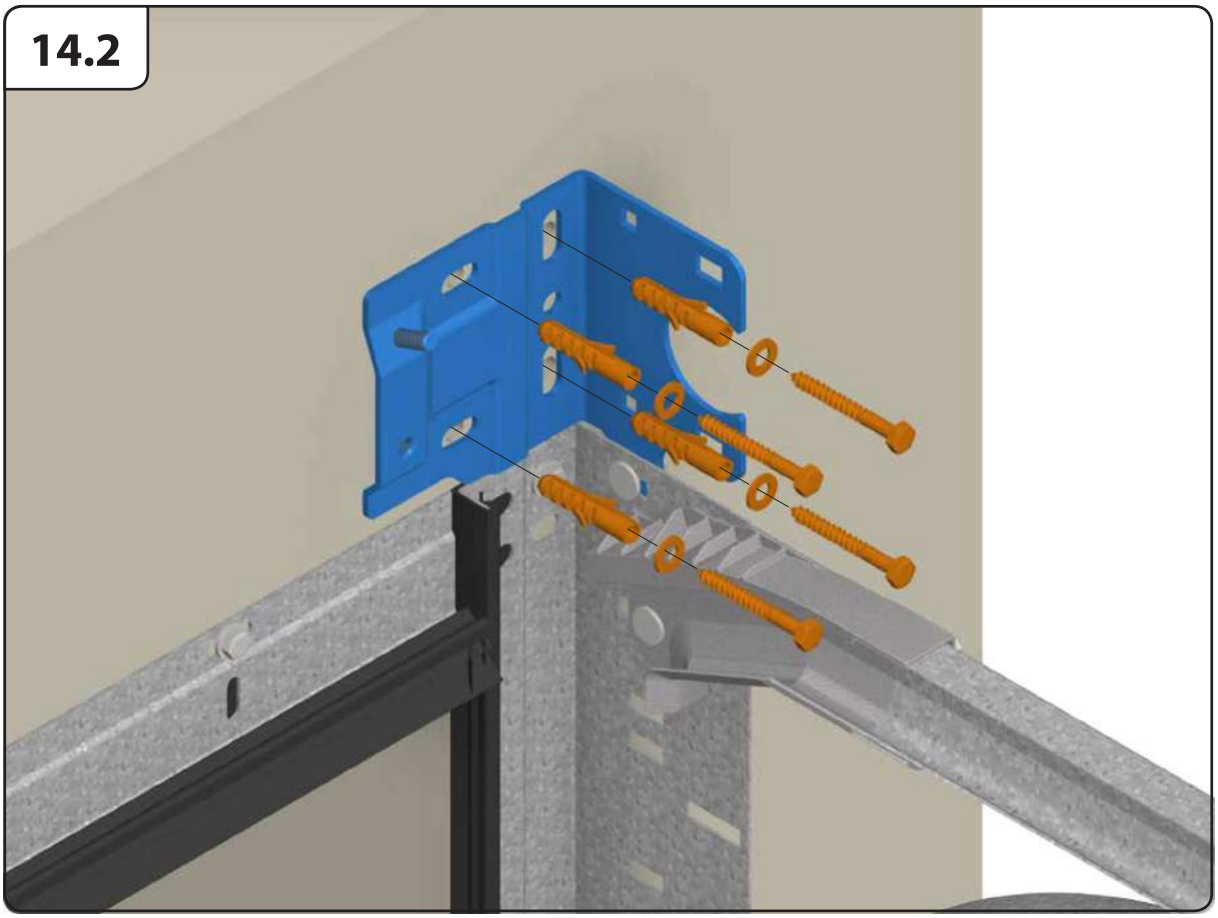
13 OPCIONAL



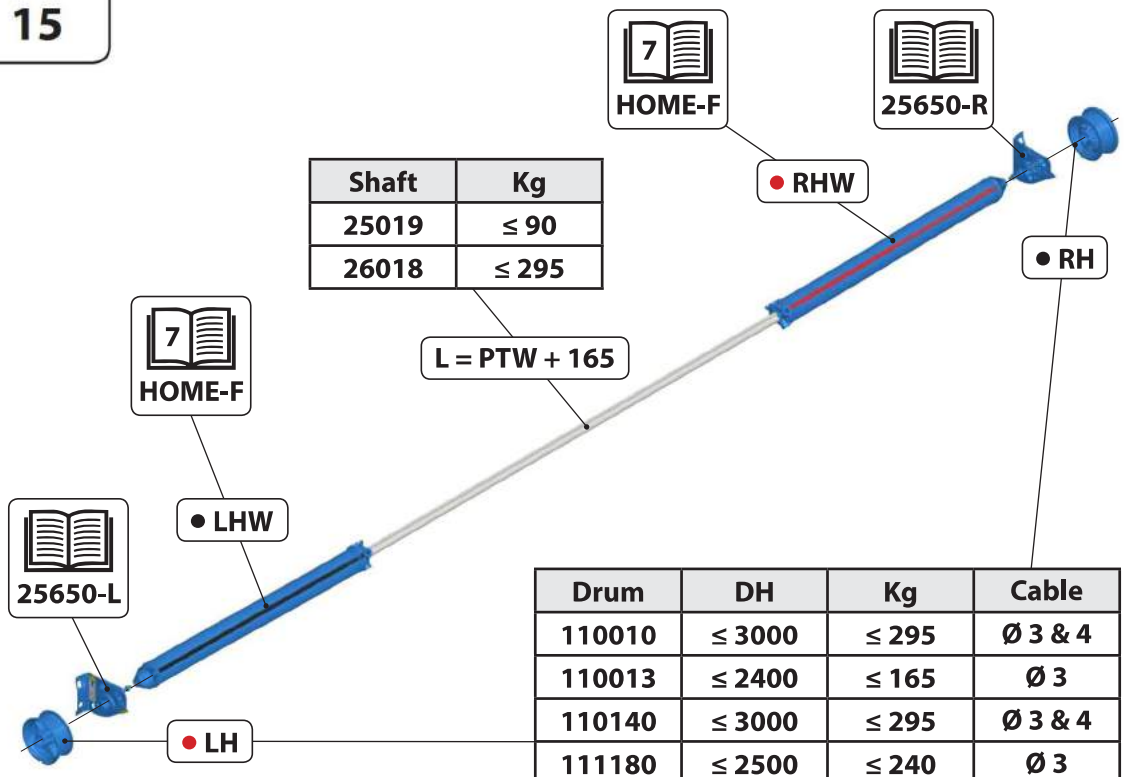

13.1
OPCIONAL
C
C
C
C
C
C
C
C
A
A
A
A
A
A
A


14


14.1
130061
C
B

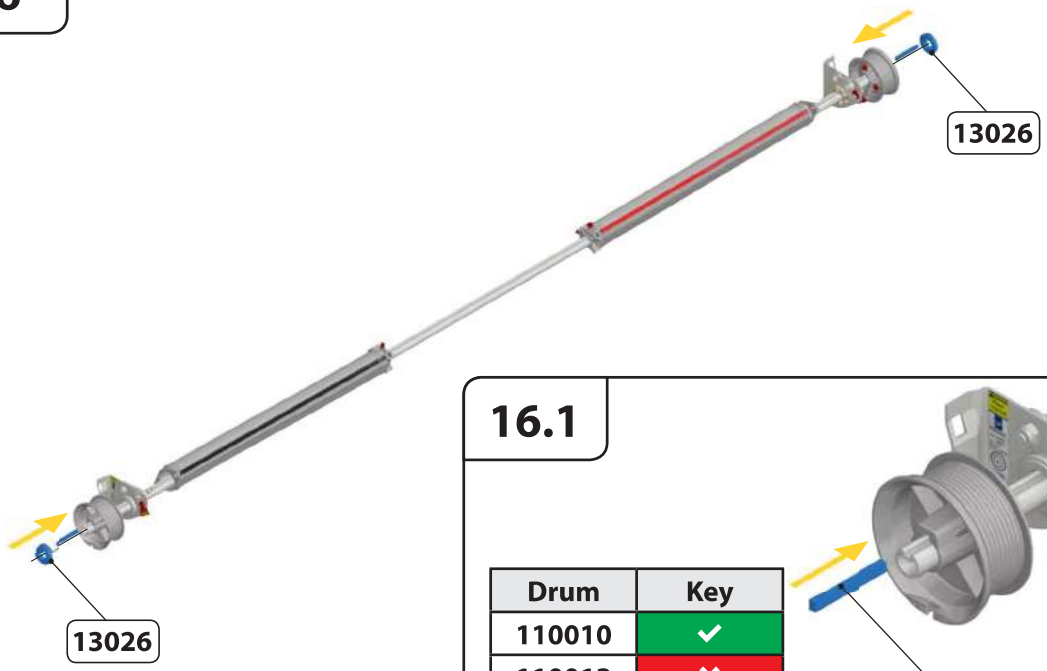

14.2

15

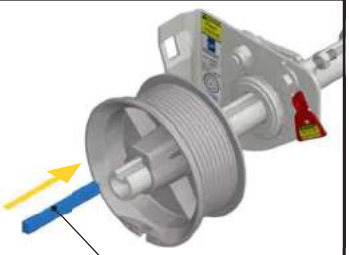


Drum	DH	Kg	Cable
110010	≤ 3000	≤ 295	Ø 3 & 4
110013	≤ 2400	≤ 165	Ø 3
110140	≤ 3000	≤ 295	Ø 3 & 4
111180	≤ 2500	≤ 240	Ø 3
112001	≤ 3000	≤ 295	Ø 3 & 4

16

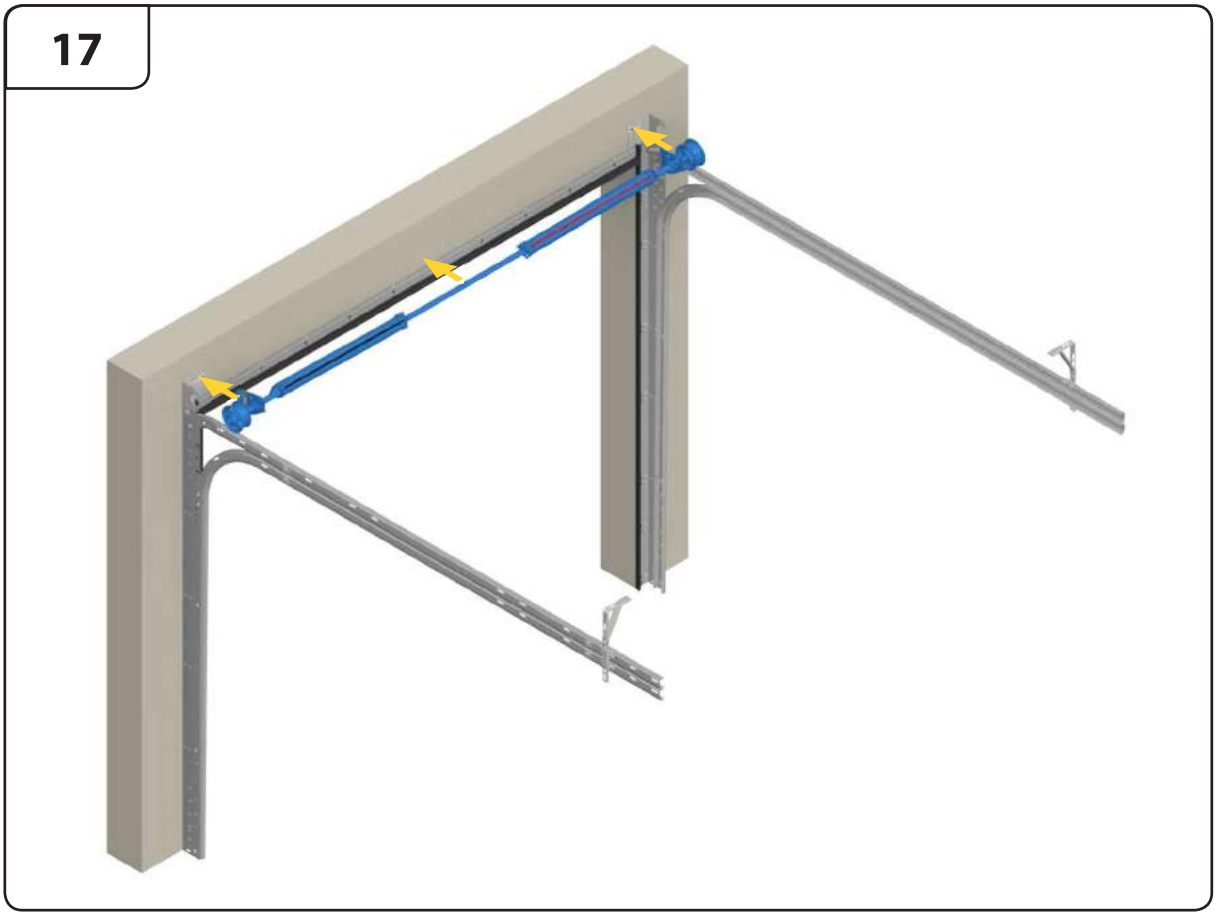


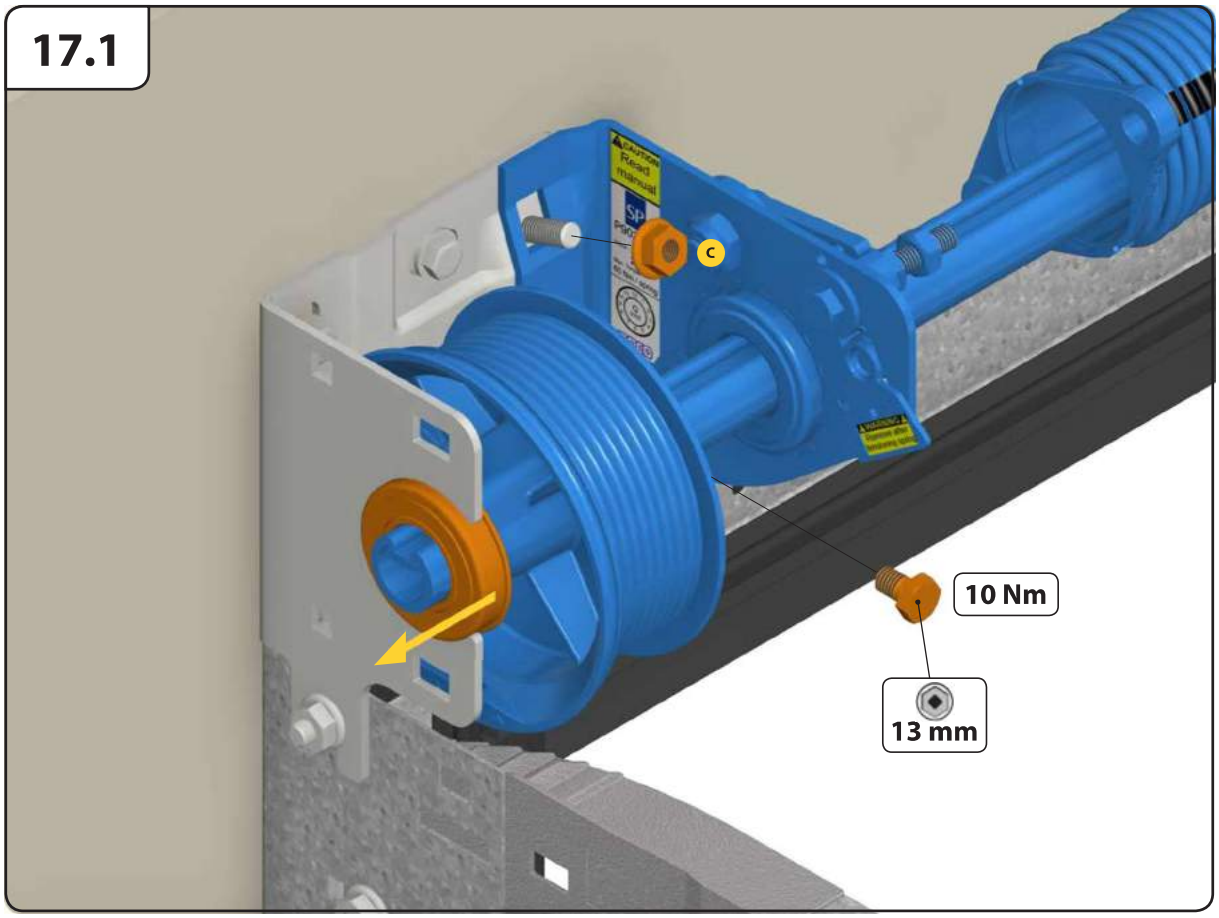
16.1

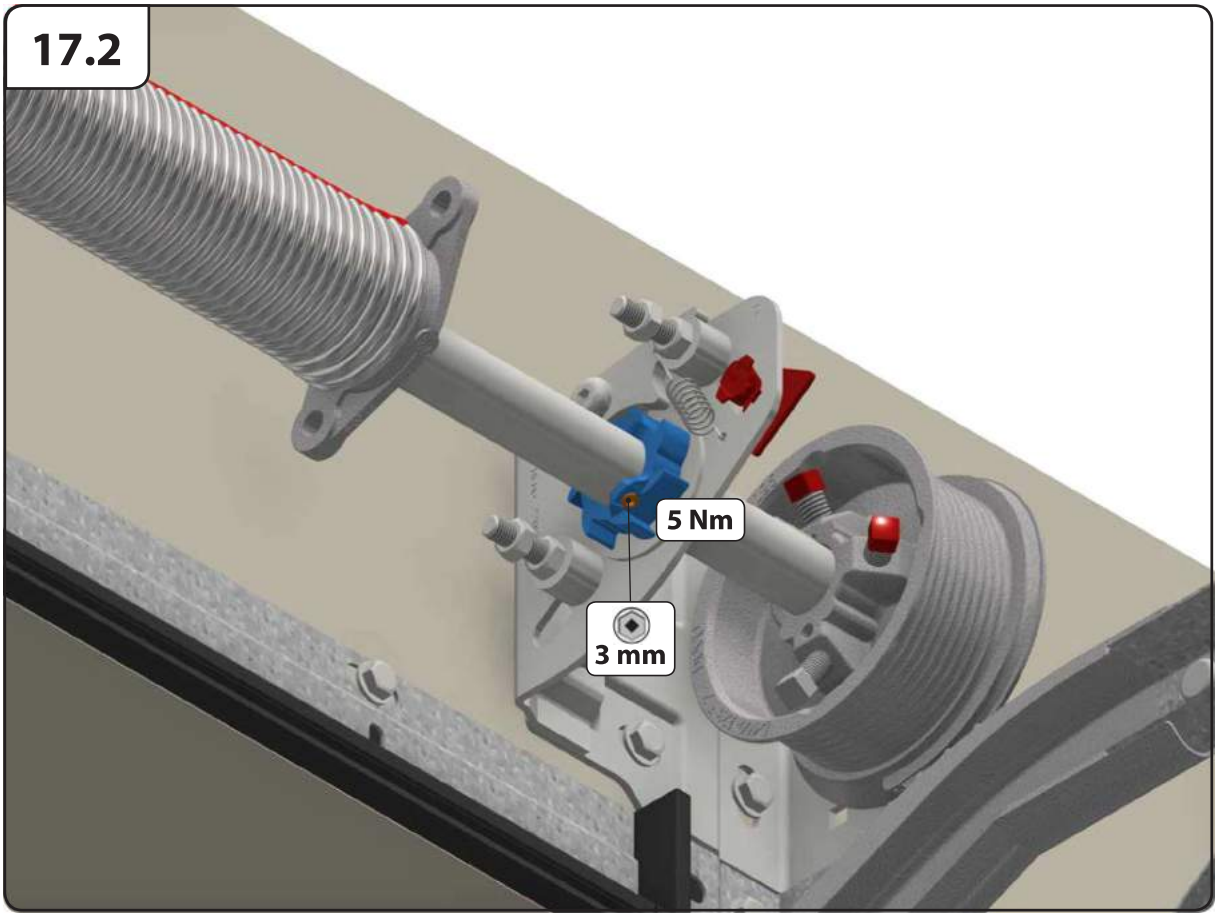


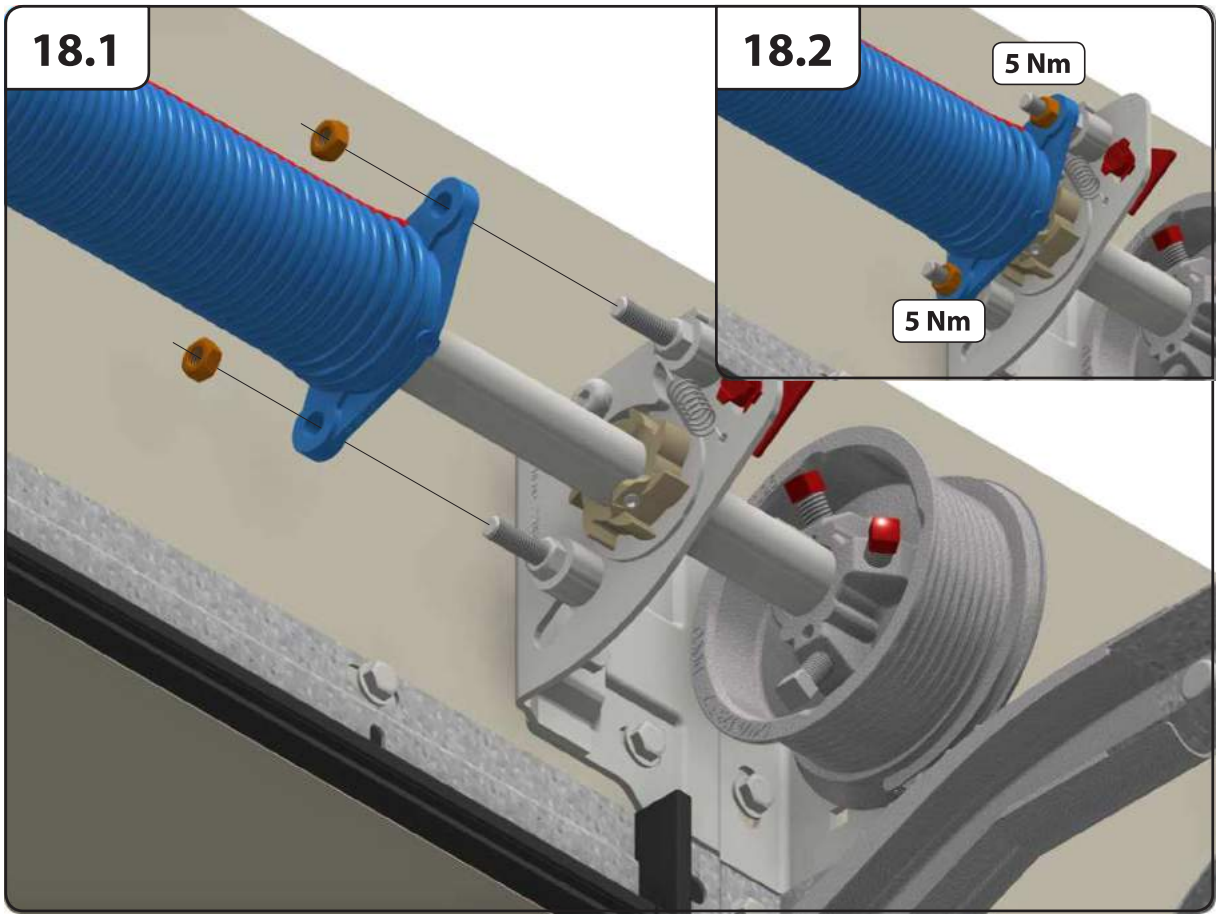
Drum	Key
110010	✓
110013	✗
110140	✓
111180	✗
112001	✓

Shaft	Key
25019	25064
26018	26064


17

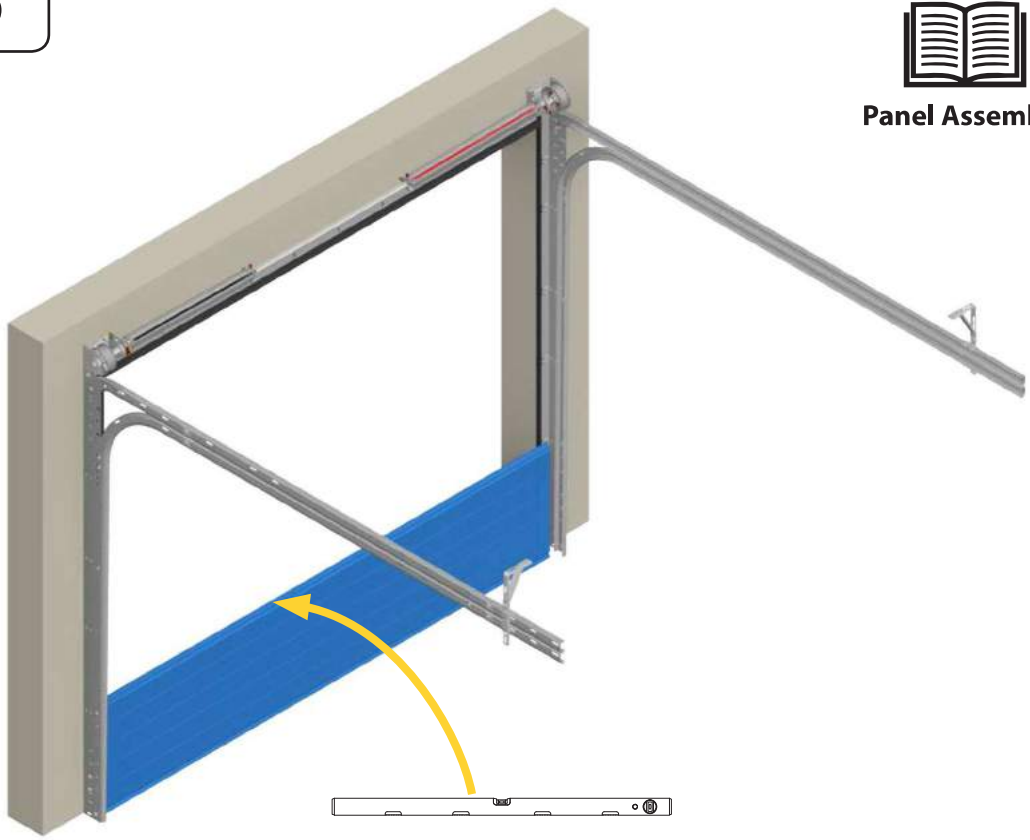

17.1
C
10 Nm
13 mm


17.2
5 Nm
3 mm

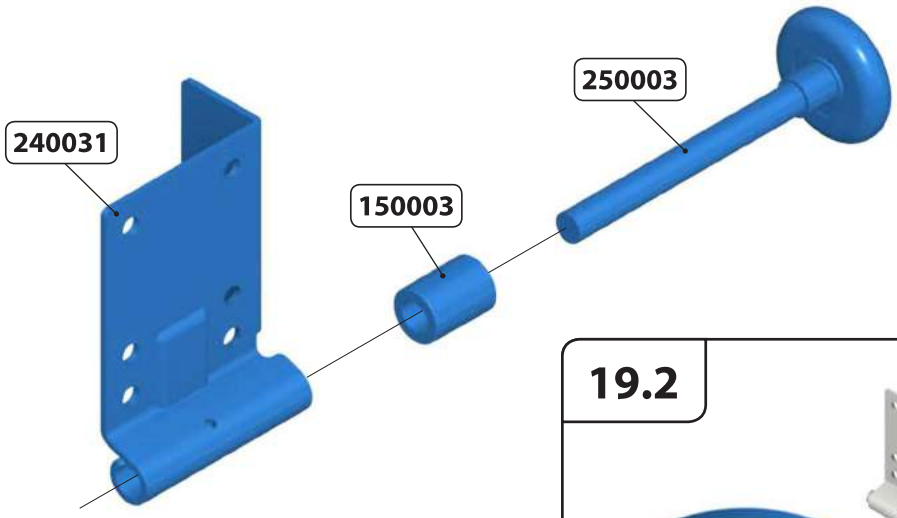

18.1
18.2
5 Nm
5 Nm

19

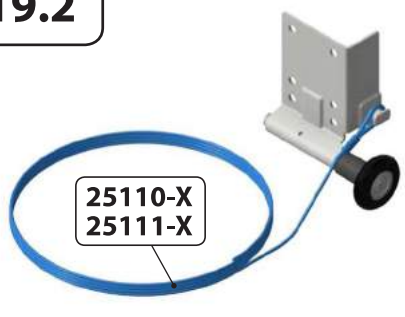
Panel Assembly

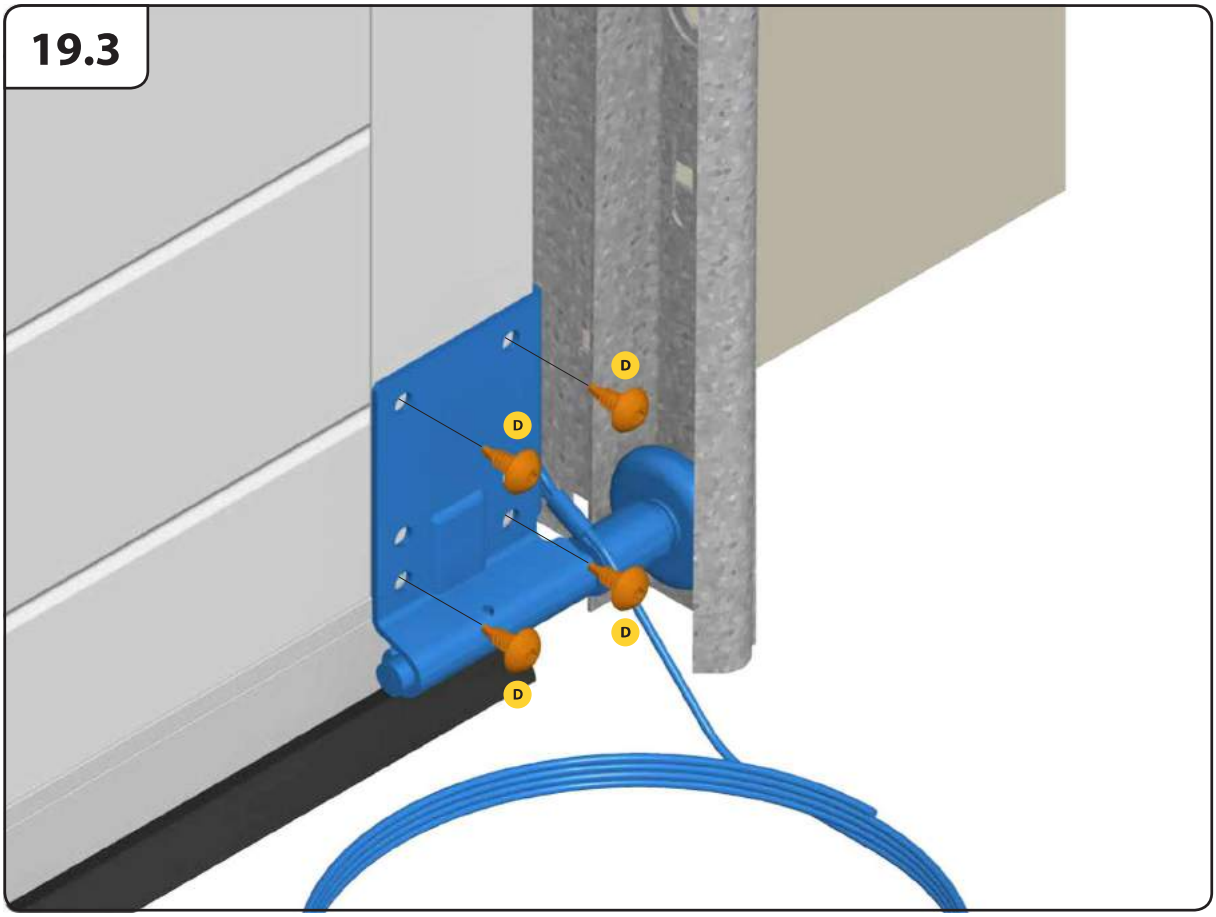


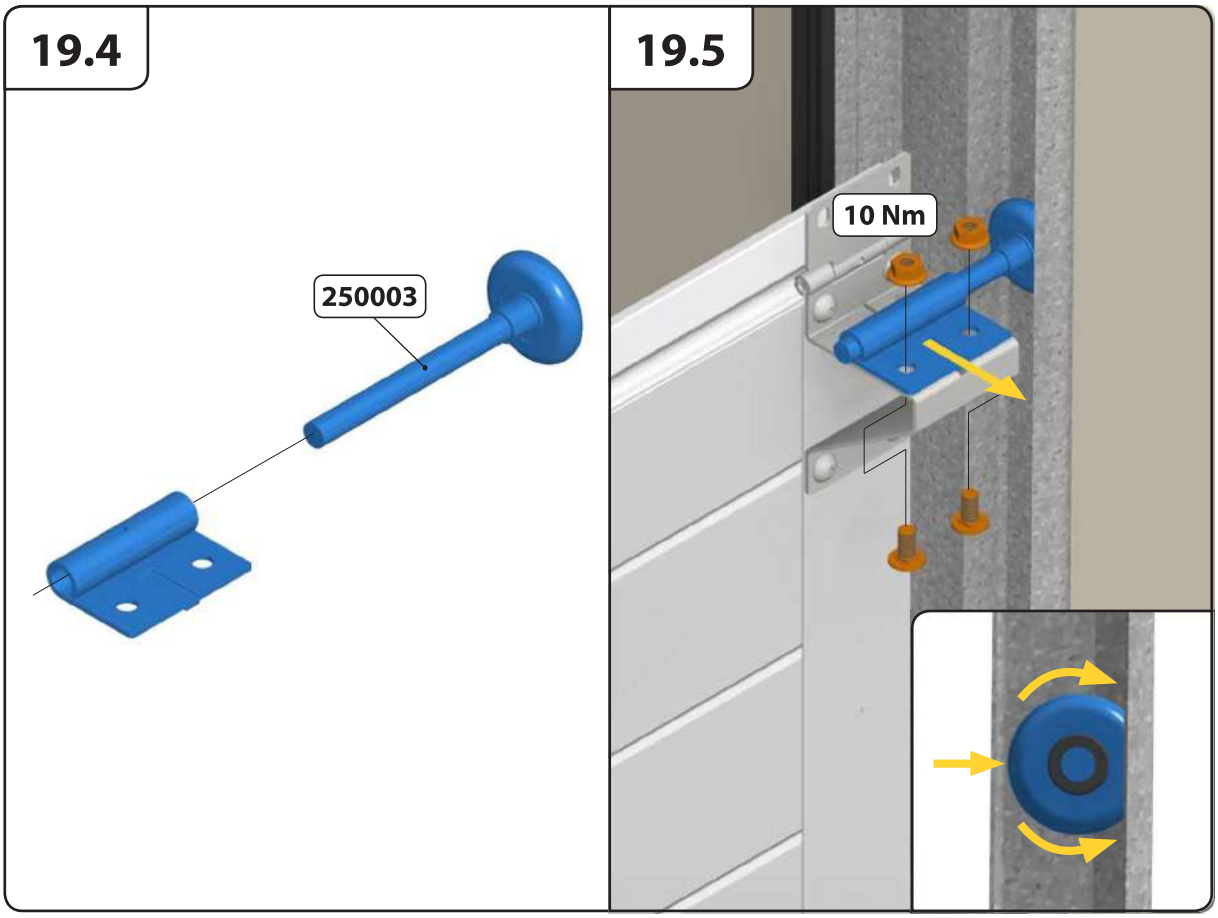
19.1



19.2

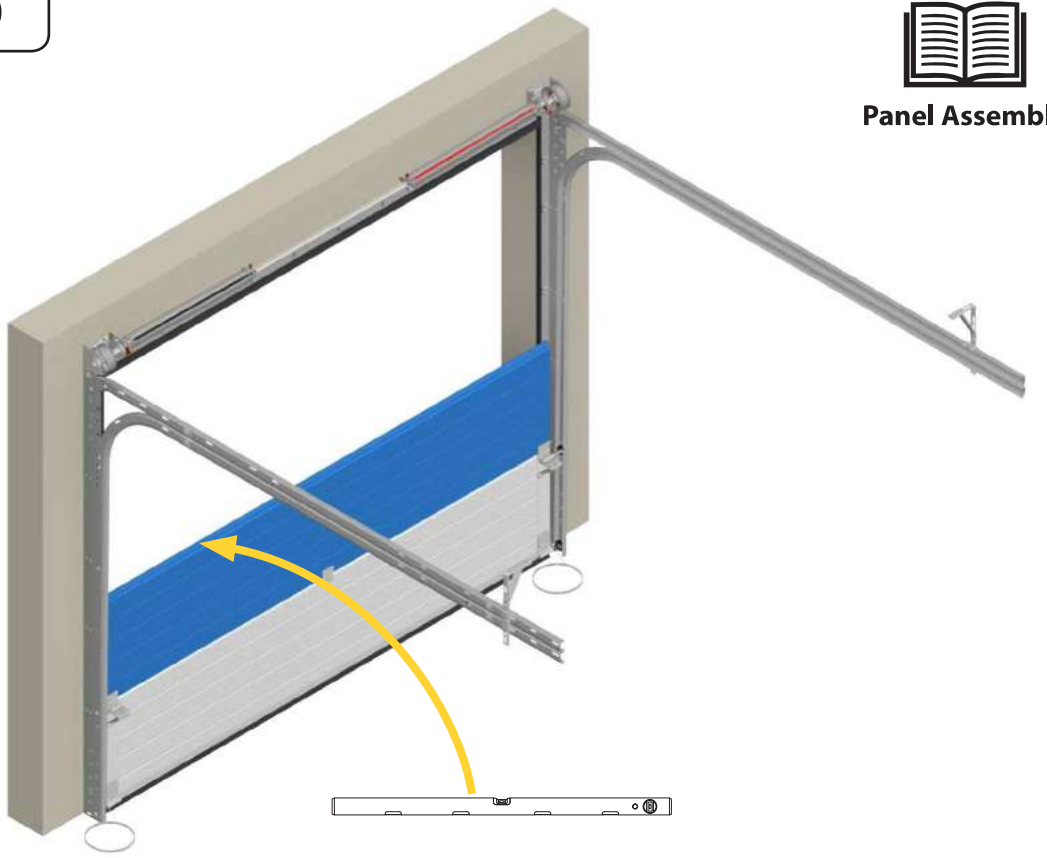



19.3
D
D
D
D

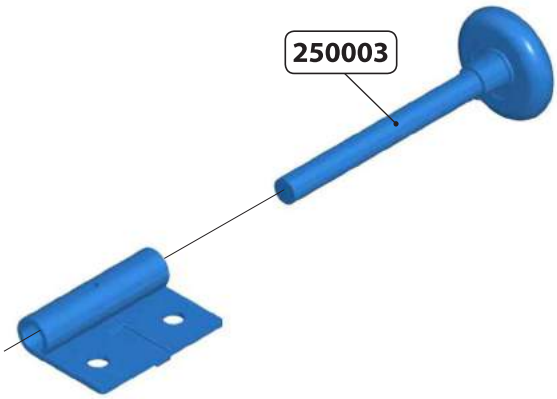

19.4
250003
19.5
10 Nm

20

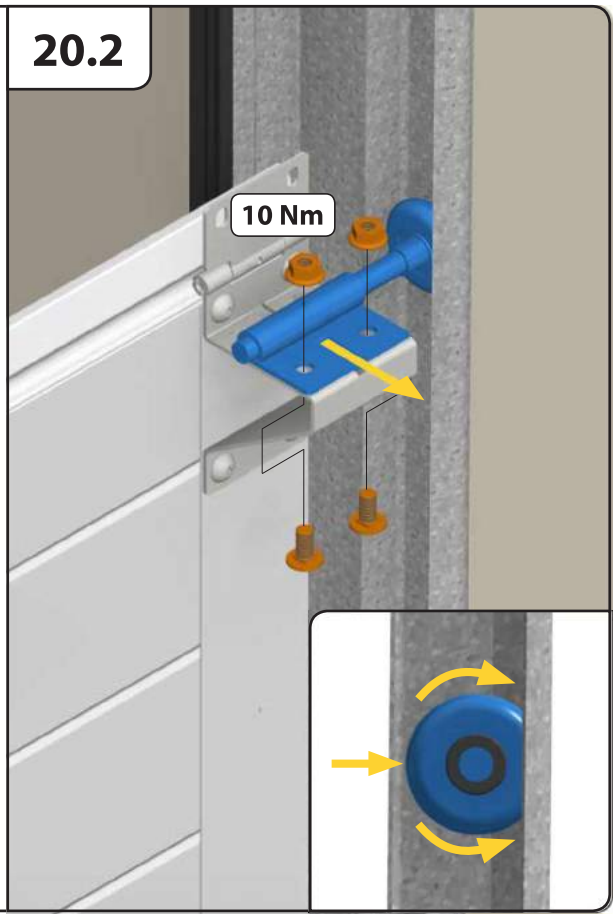
Panel Assembly

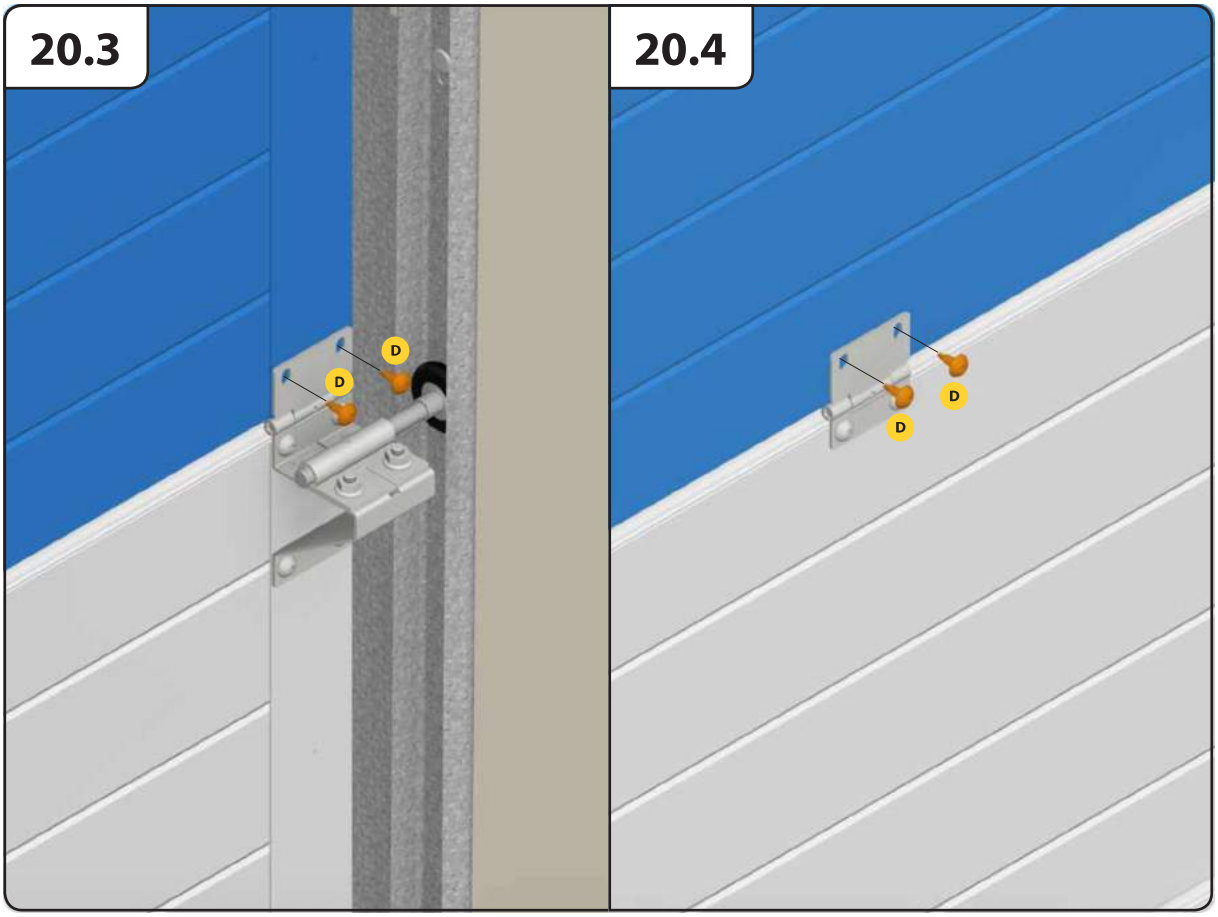


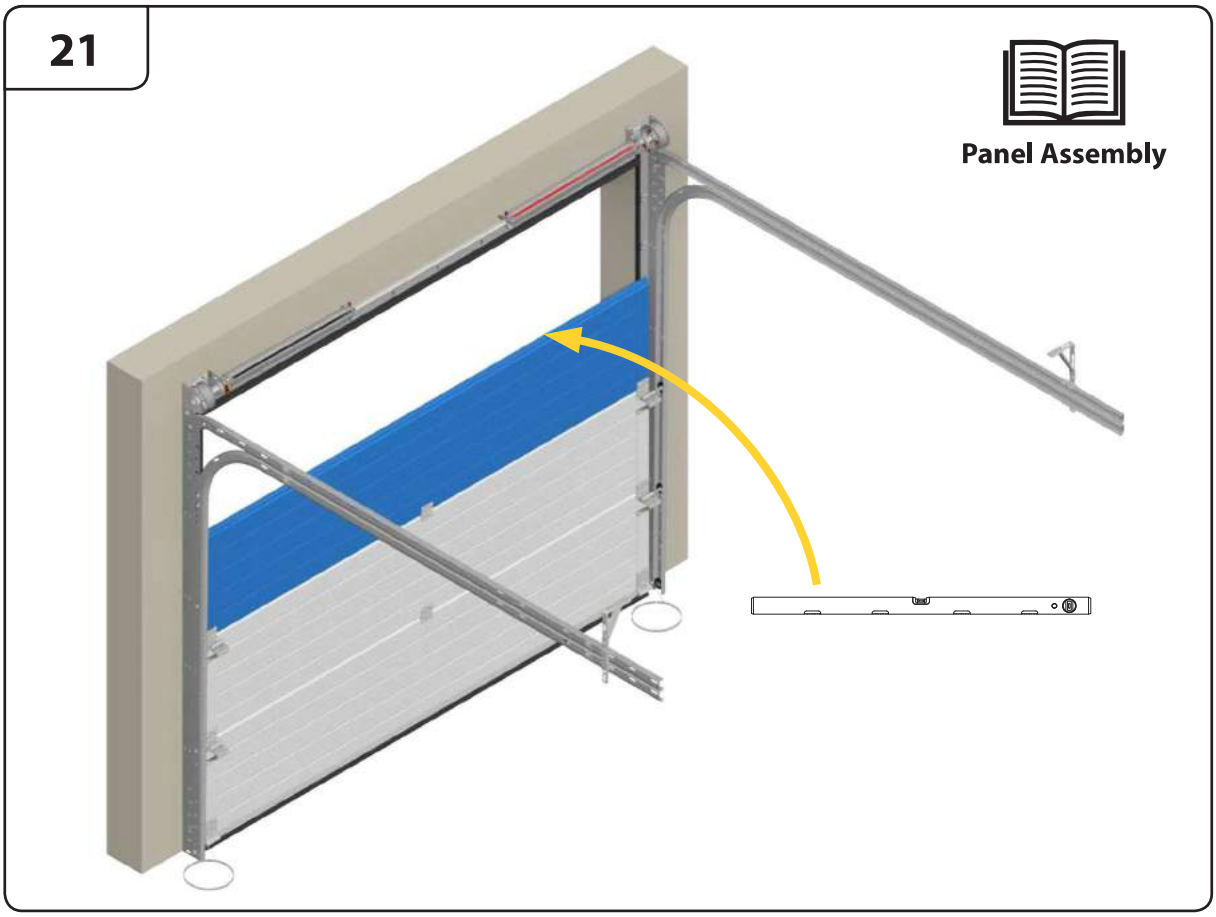
20.1

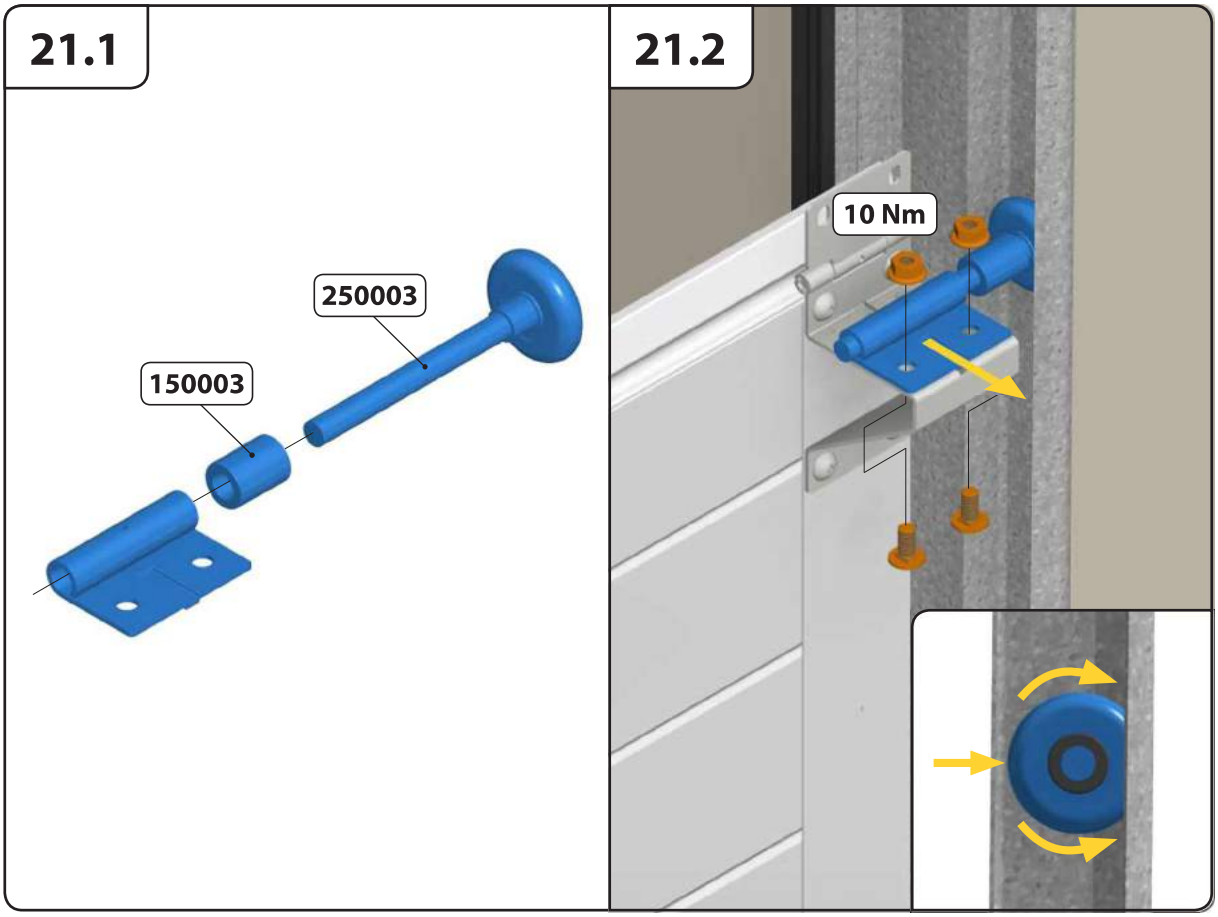


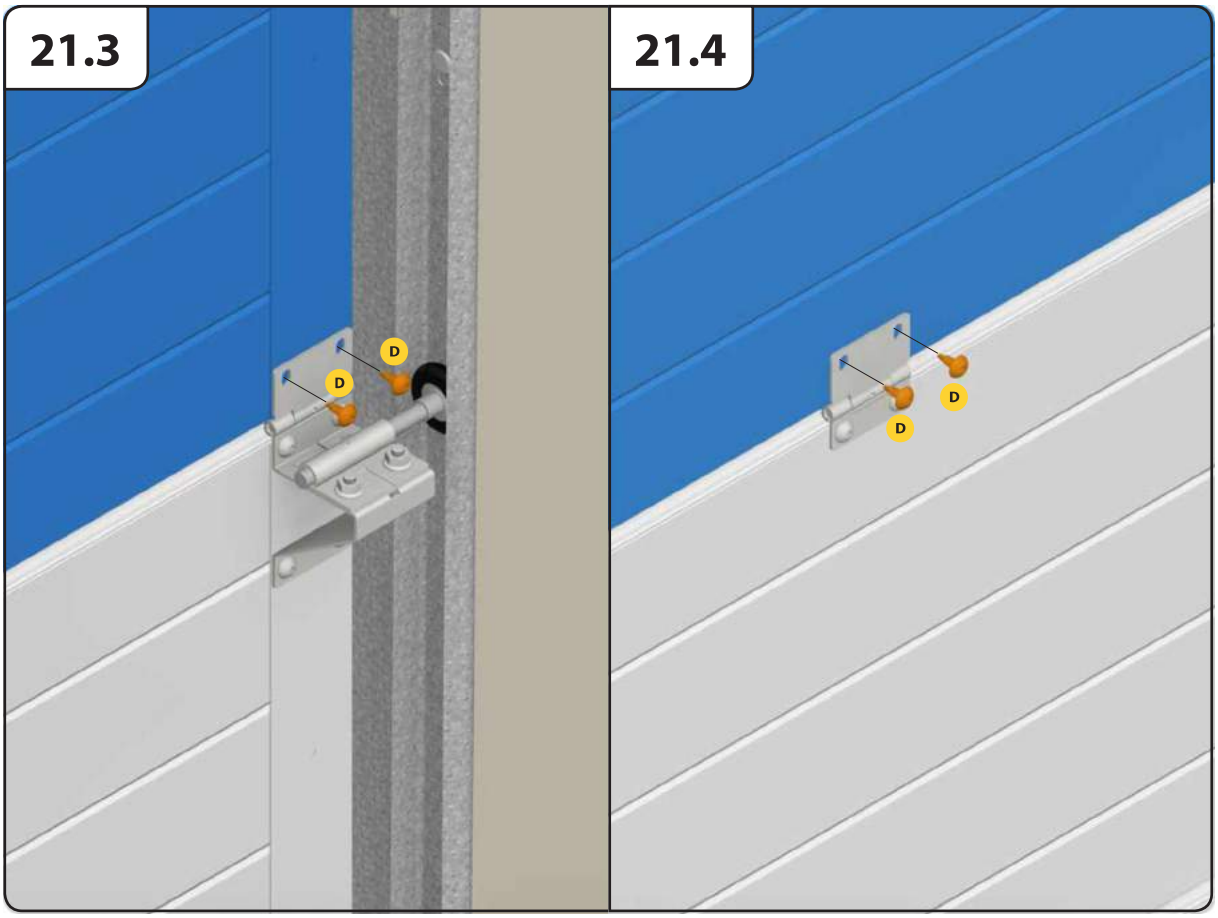
20.2

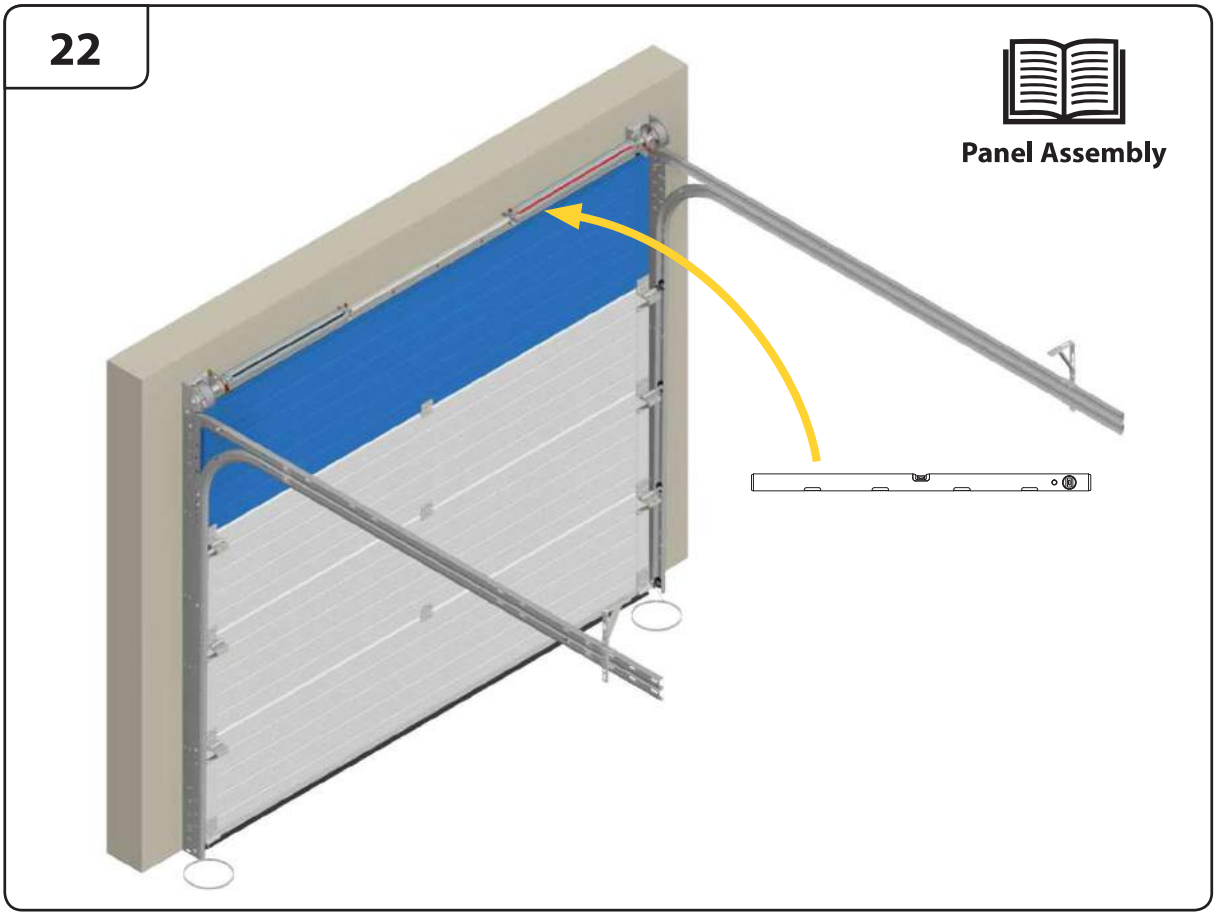


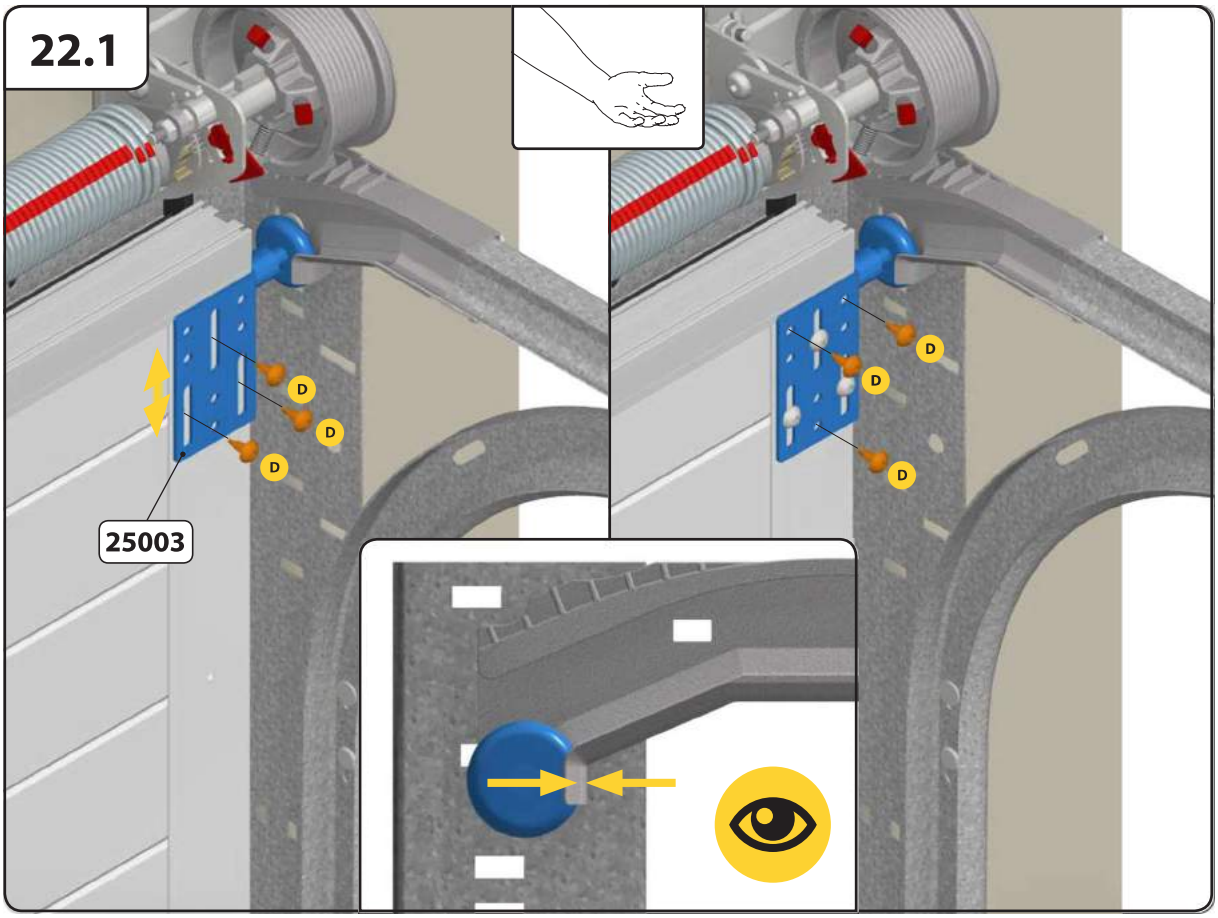

20.3
D
D
20.4
D
D

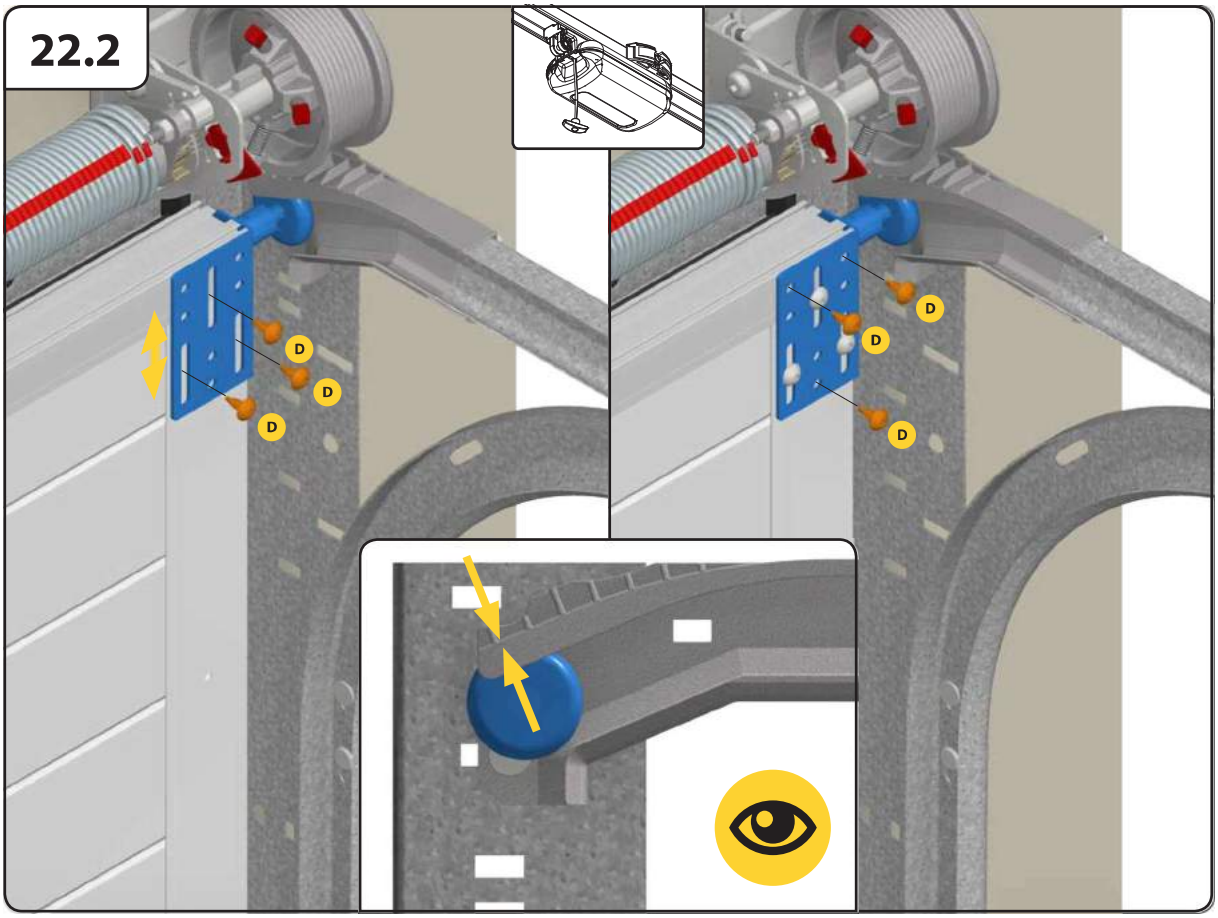

21
Panel Assembly

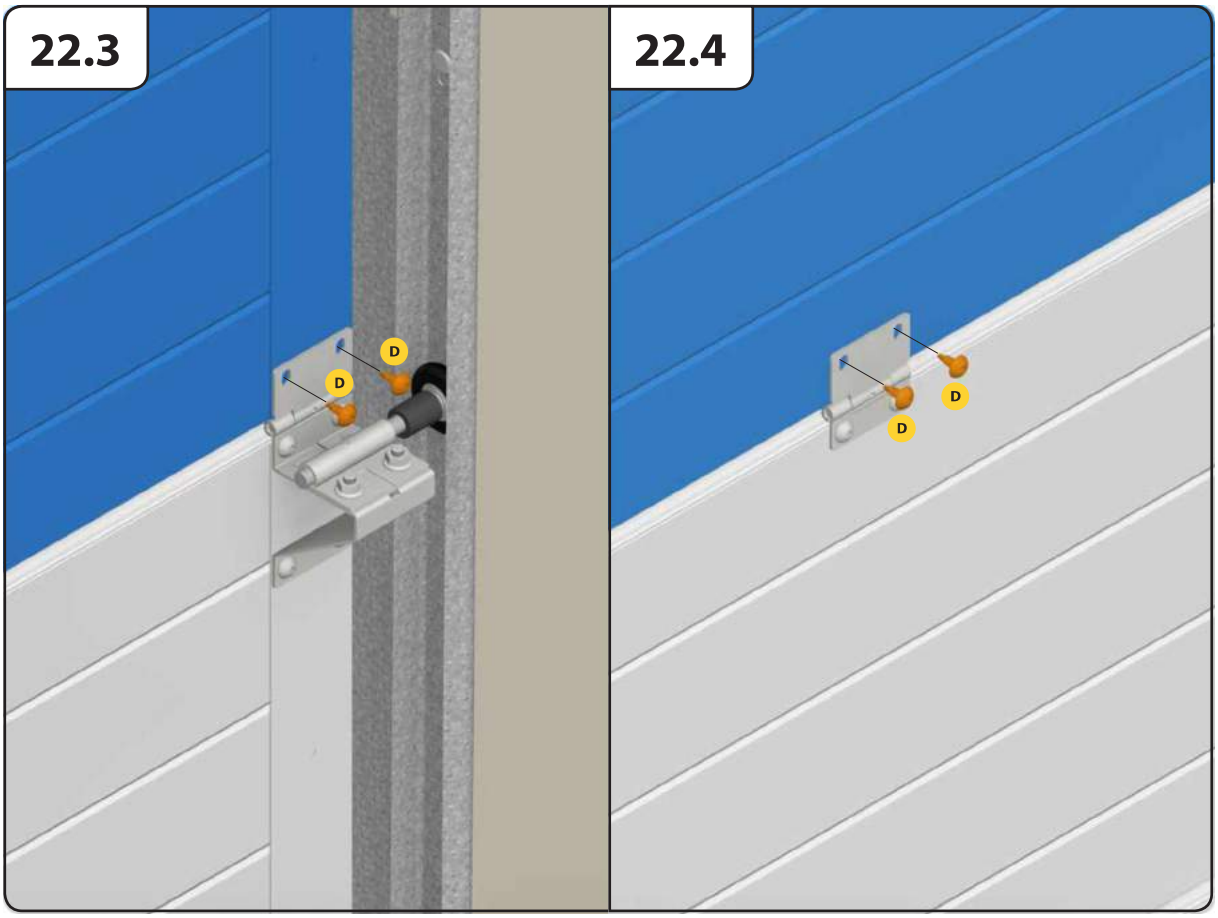

21.1
250003
150003
21.2
10 Nm


21.3
D
D
21.4
D
D

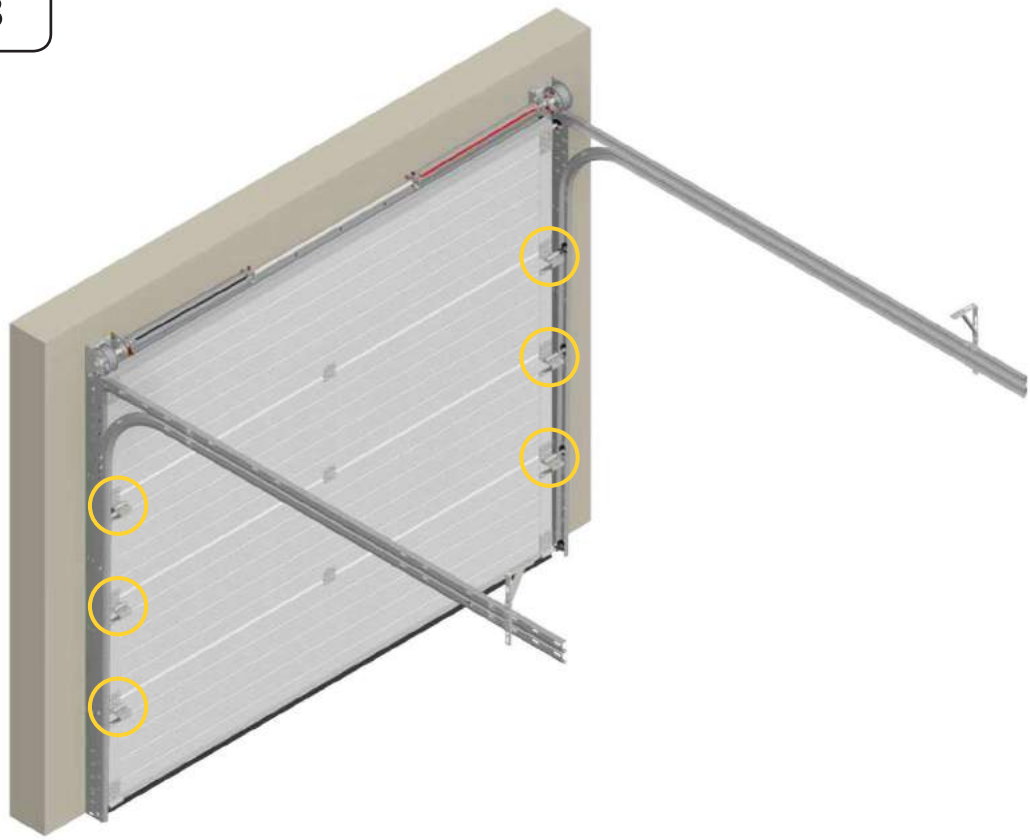

22
Panel Assembly


22.1
D
D
D
25003
D
D
D

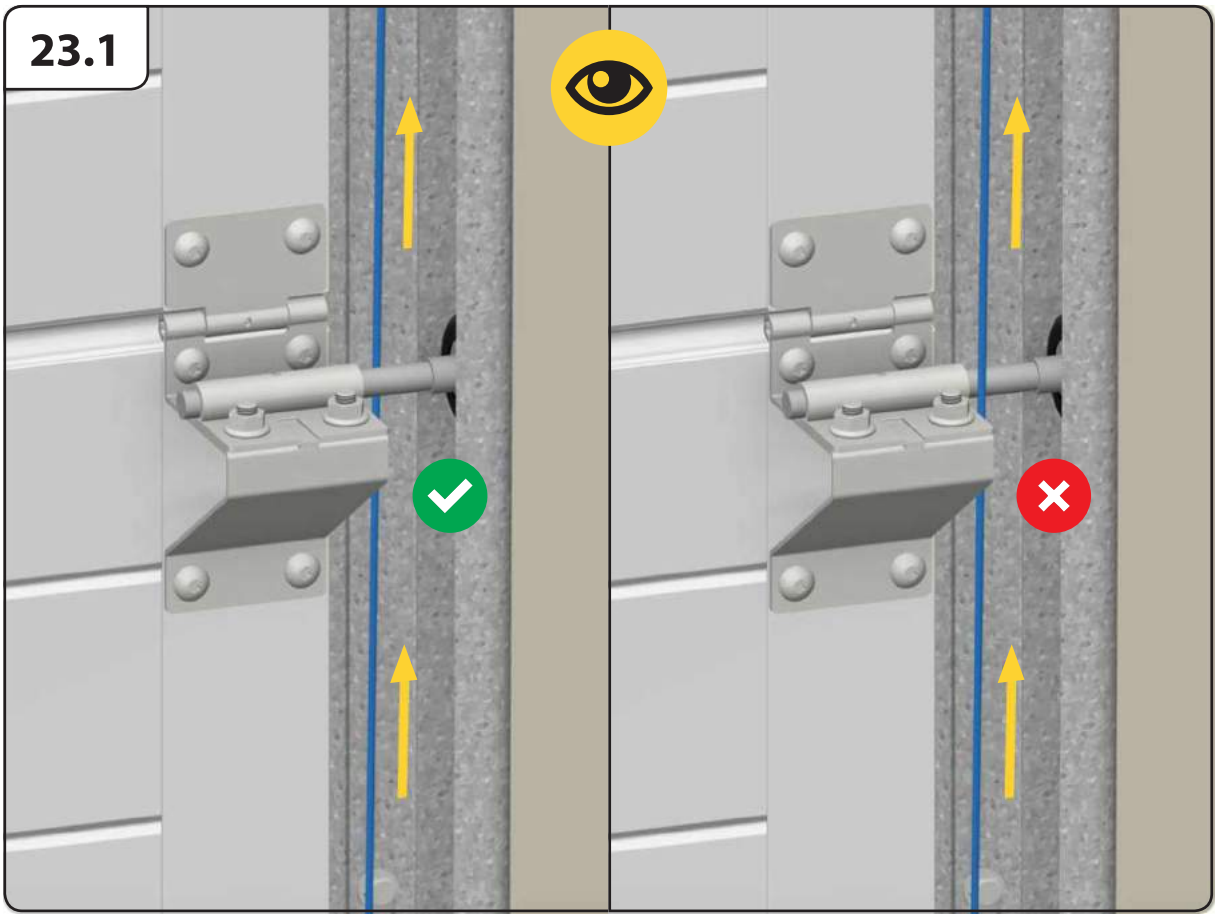

22.2
D
D
D
D
D
D

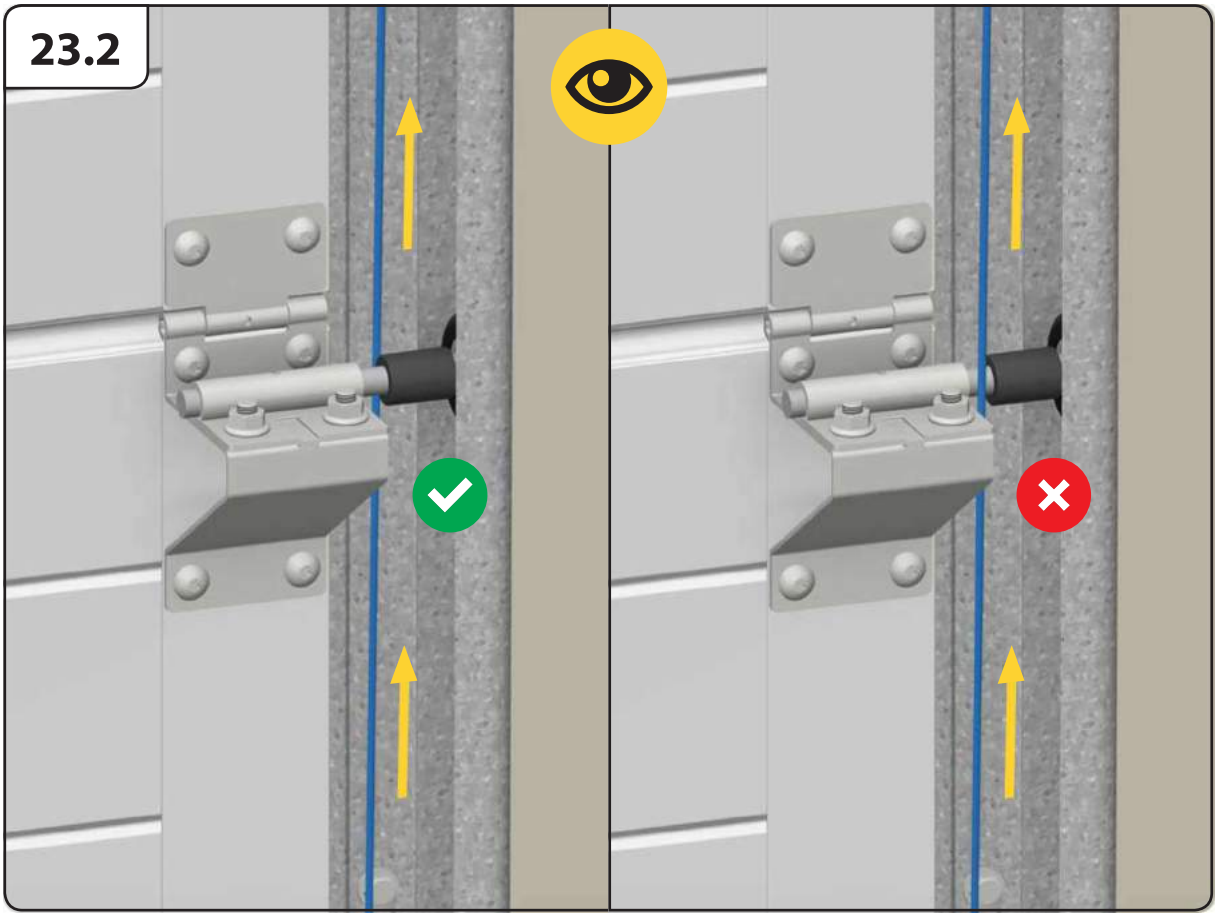

22.3
D
D
22.4
D
D

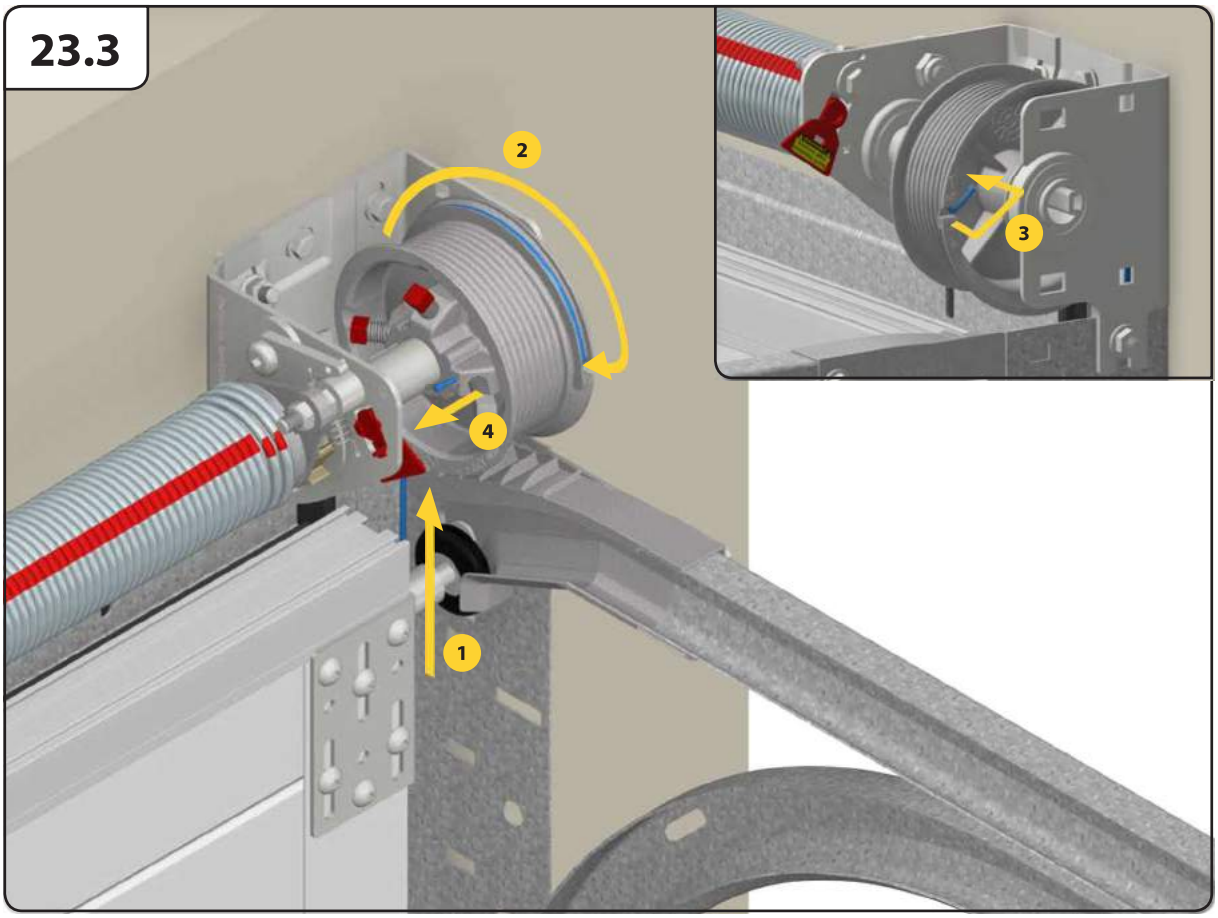
23

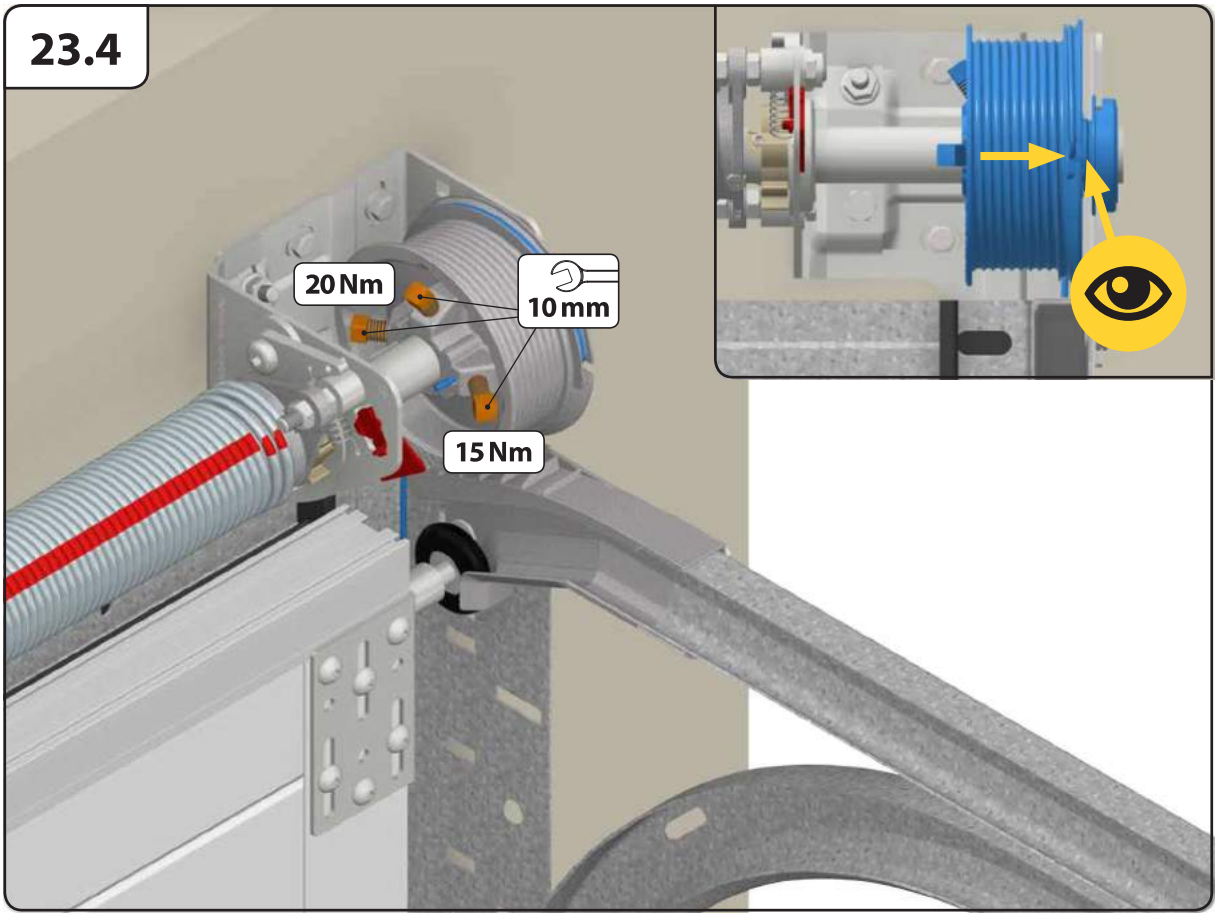


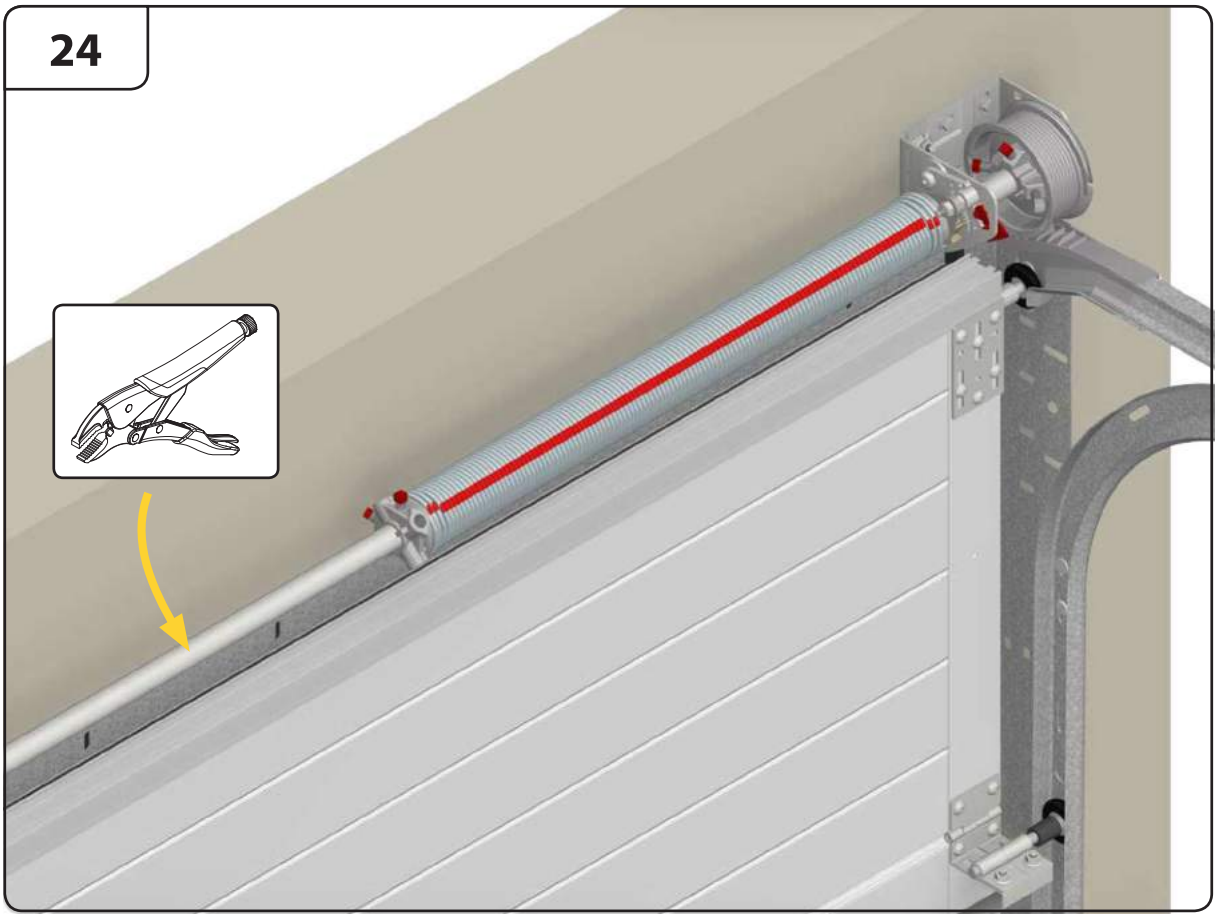
23.1

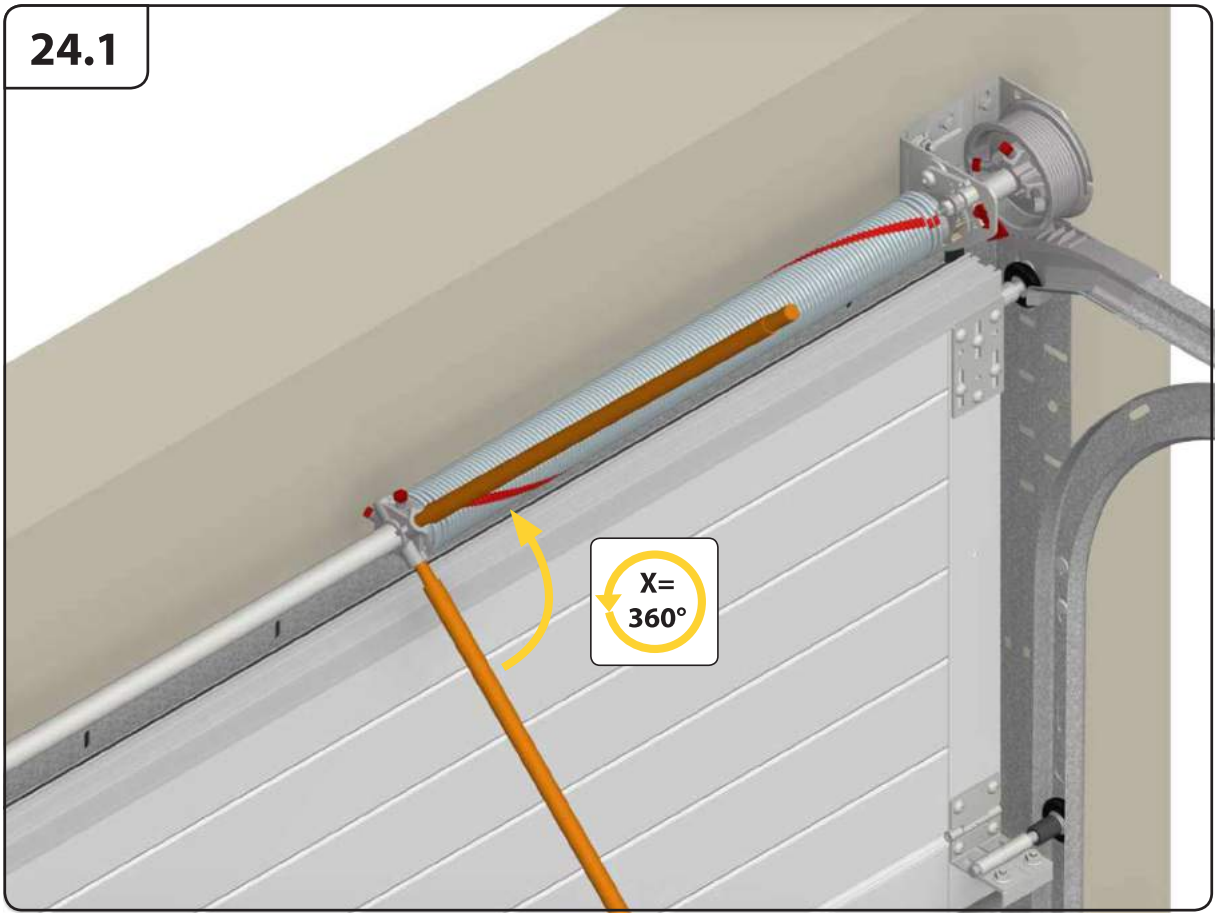


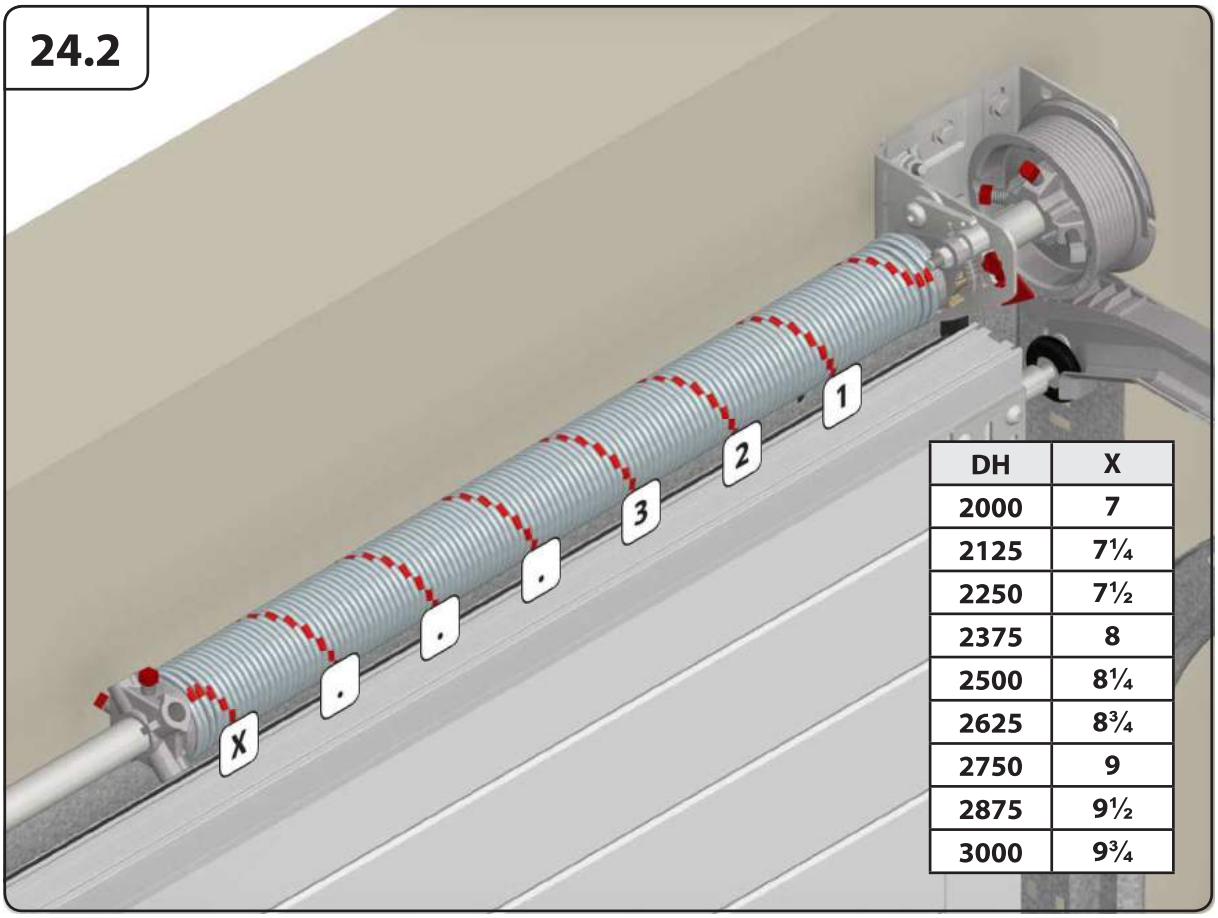

23.2


23.3
2
3
4
1

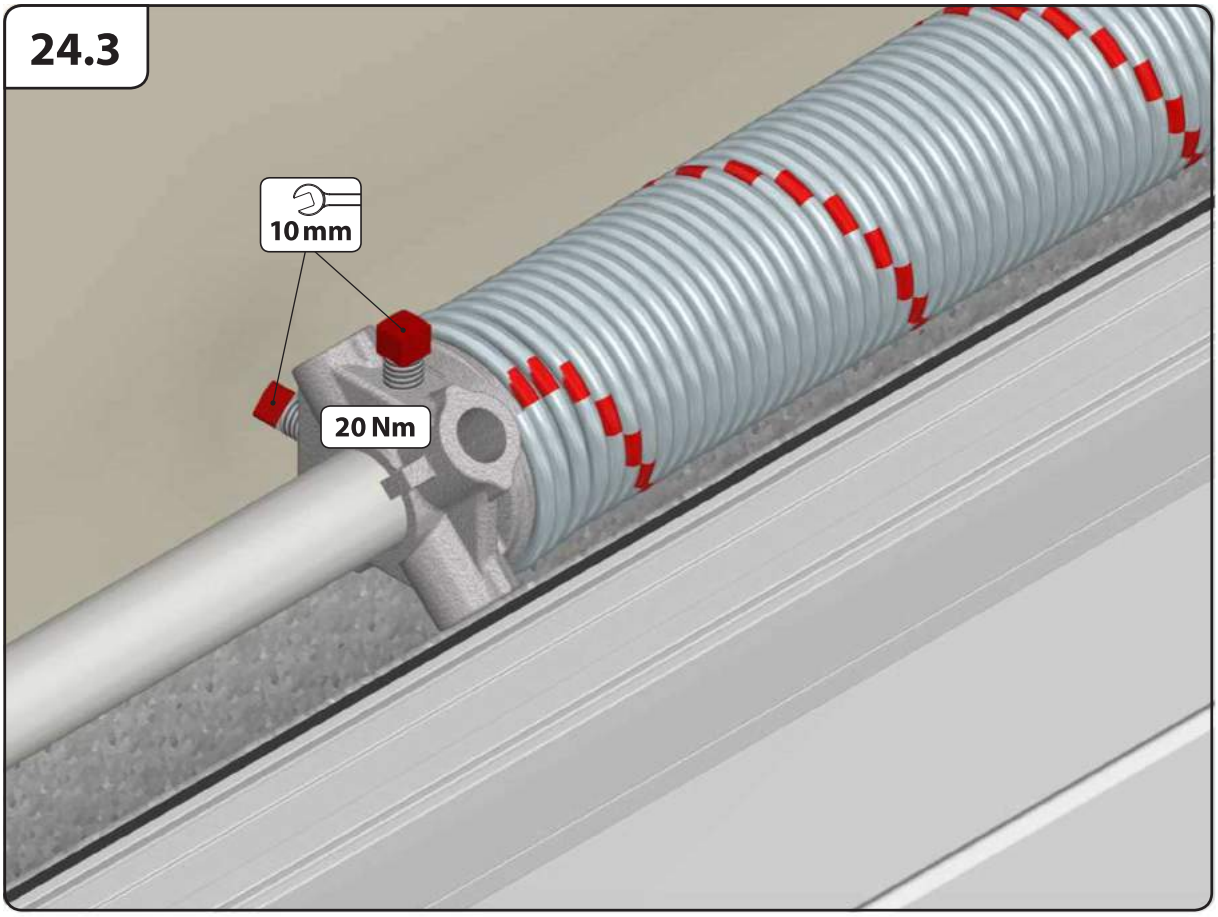

23.4
20 Nm
10 mm
15 Nm

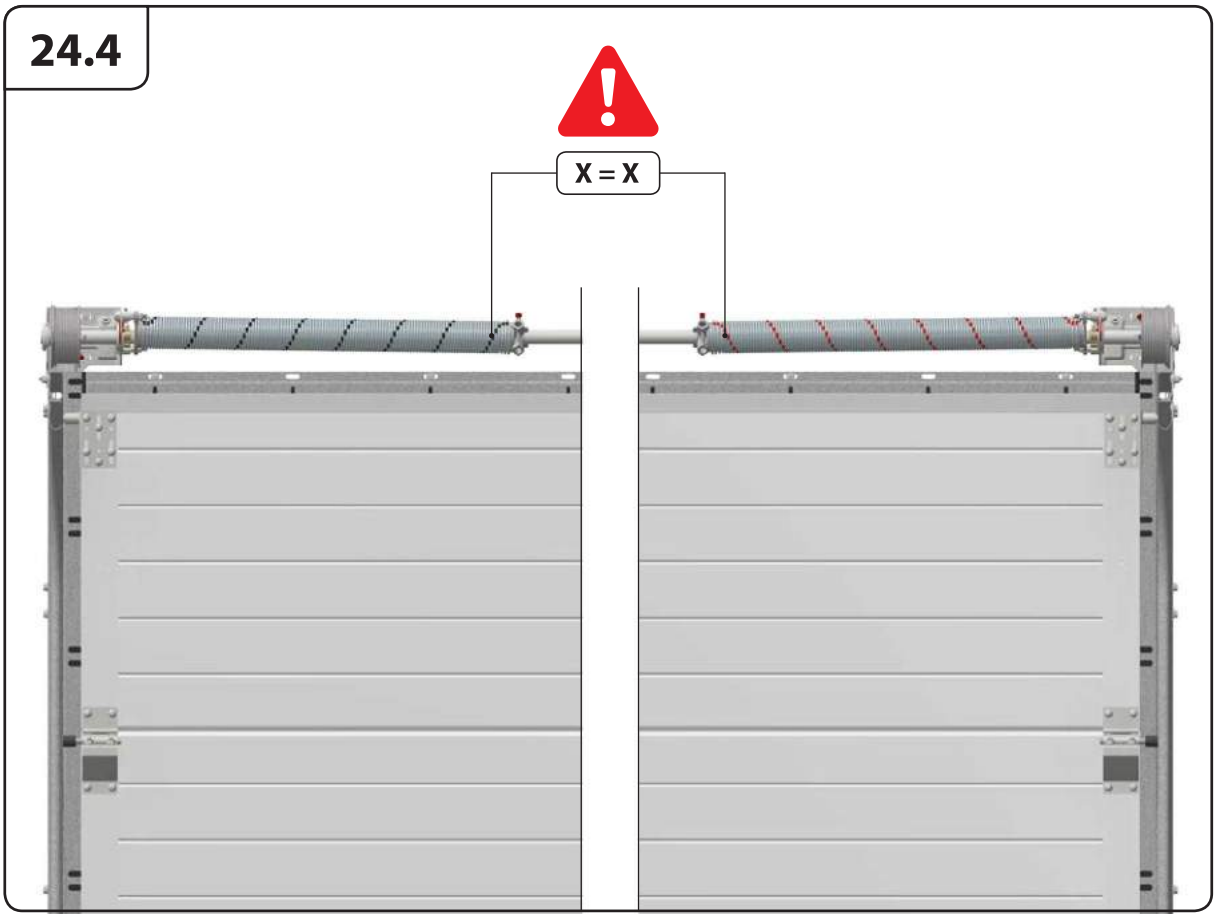

24

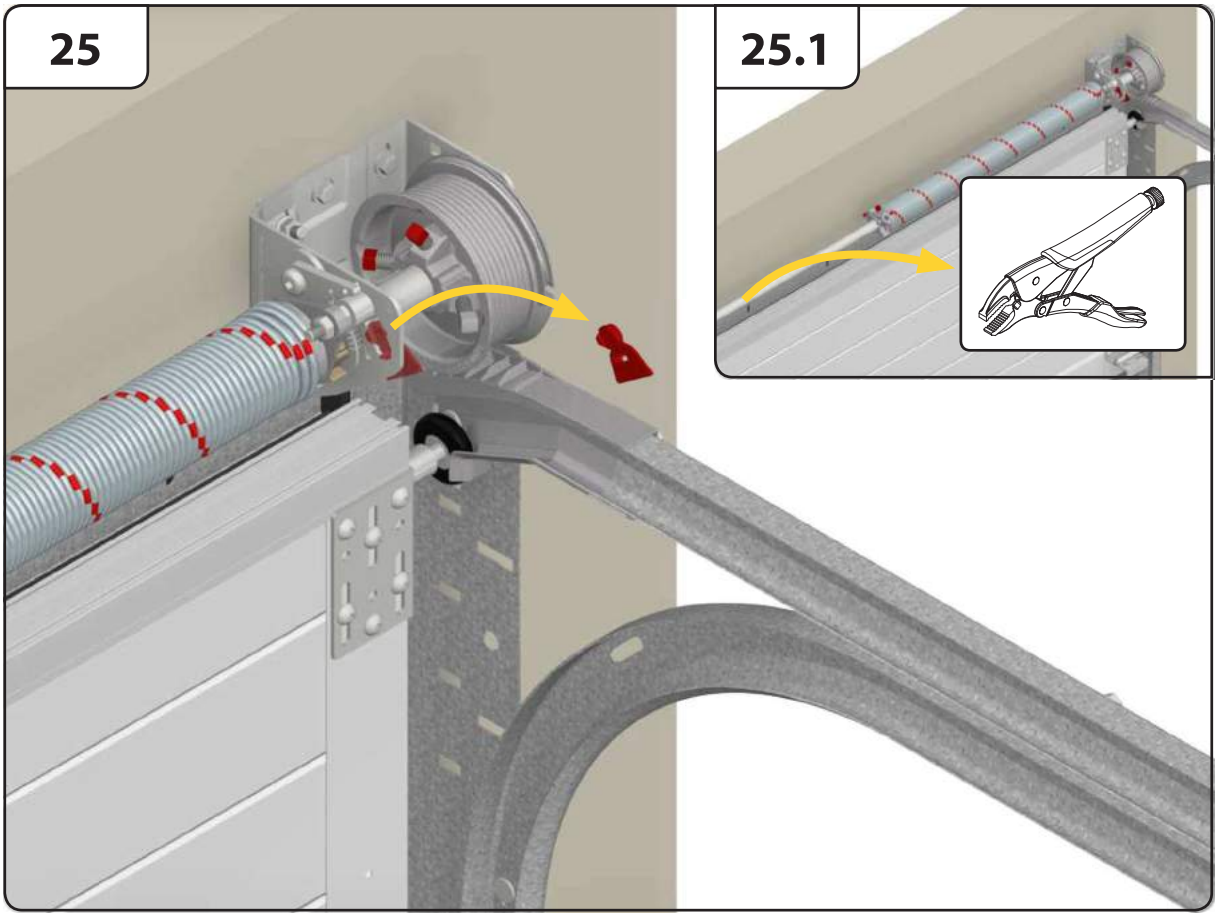


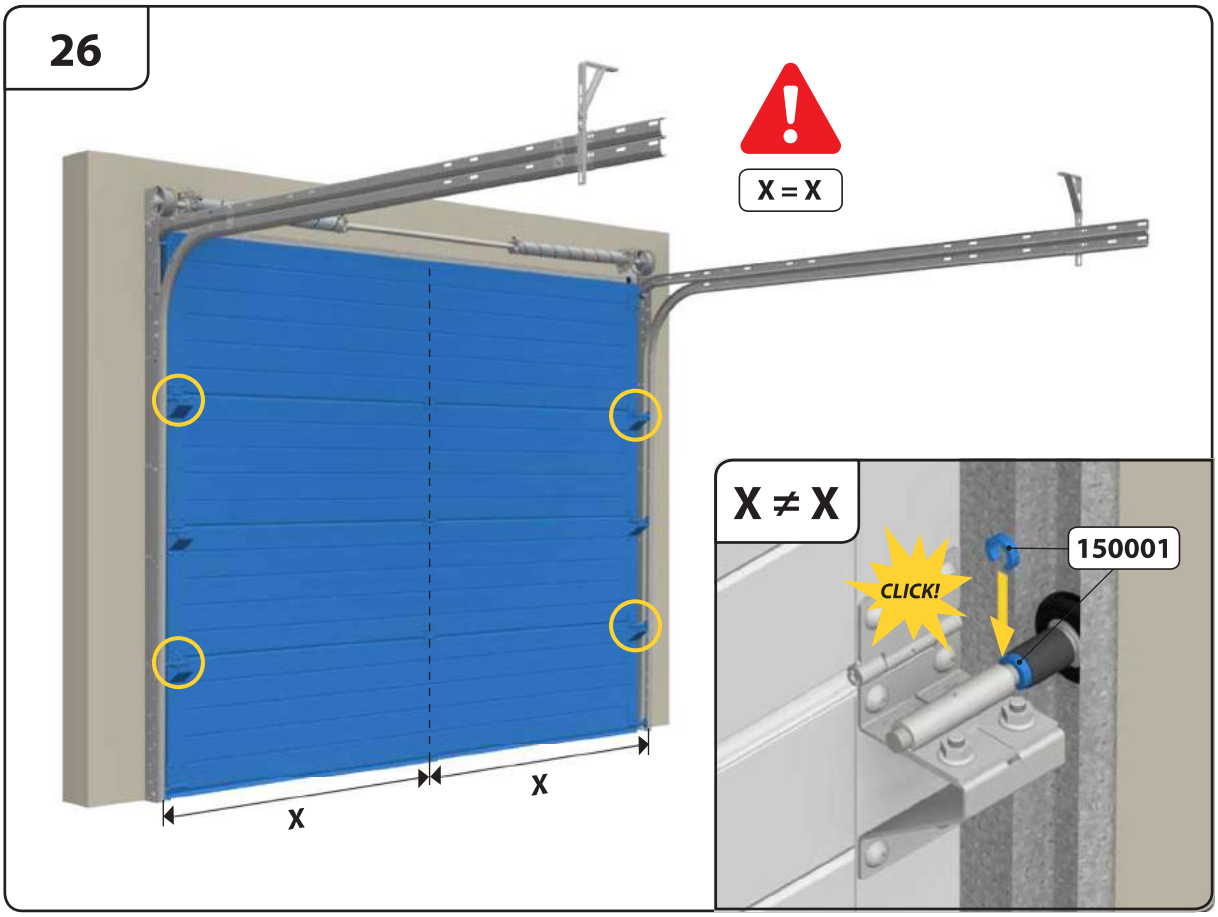


DH	X
2000	7
2125	7¼
2250	7½
2375	8
2500	8¼
2625	8¾
2750	9
2875	9½
3000	9¾

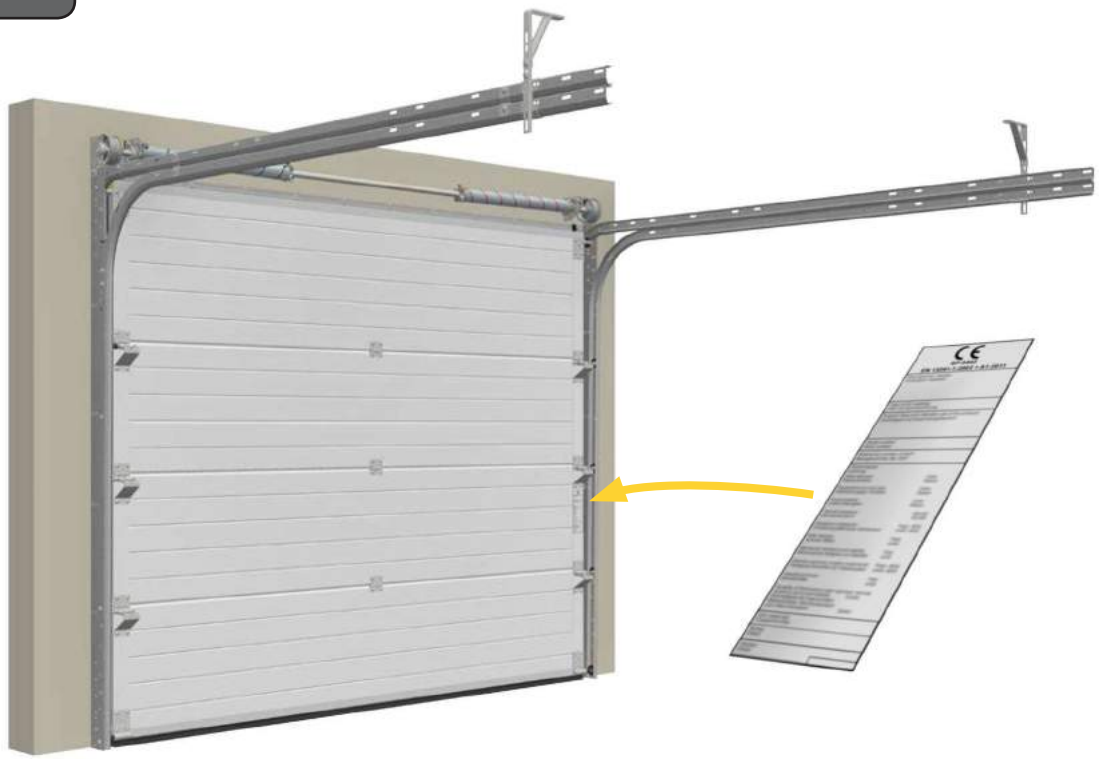

24.3
10 mm
20 Nm


24.4
X = X

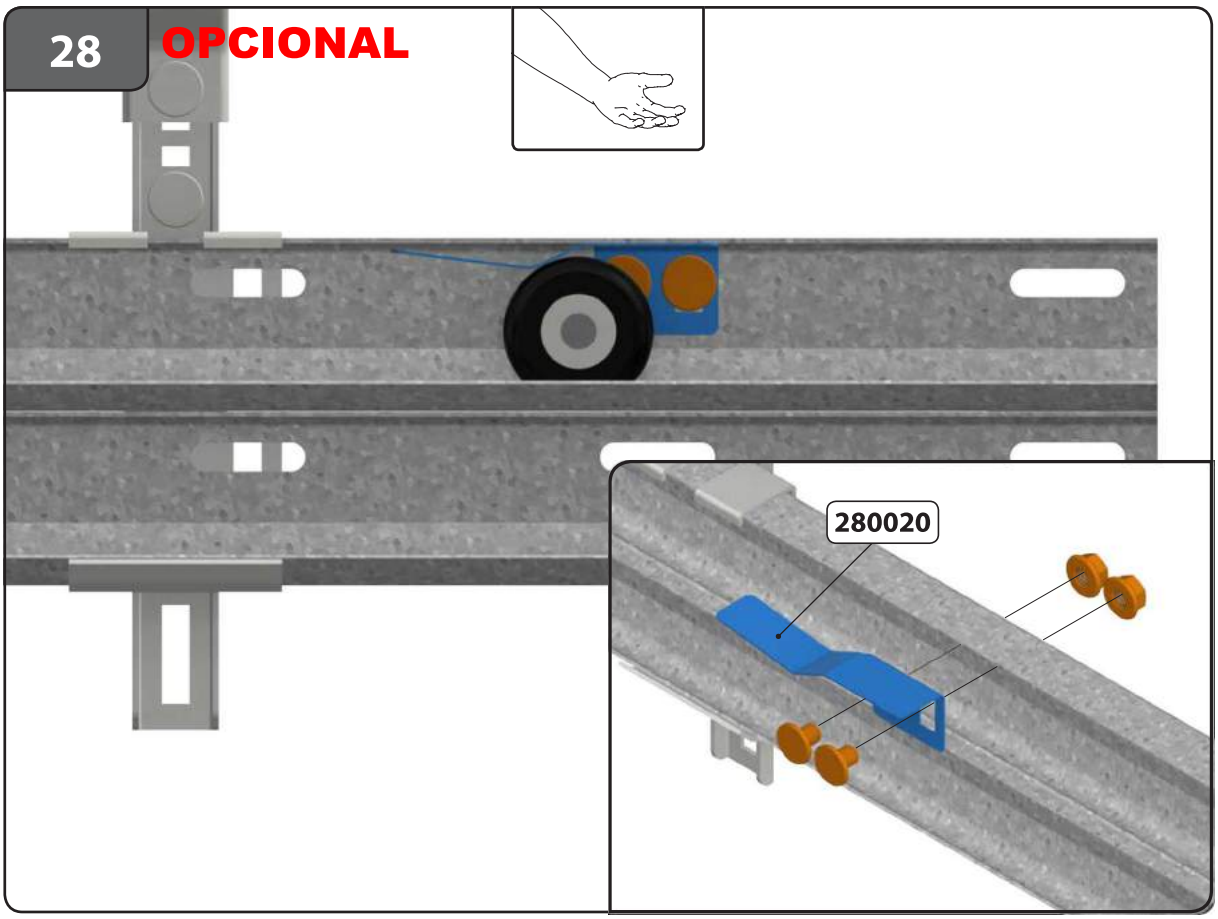

25
25.1

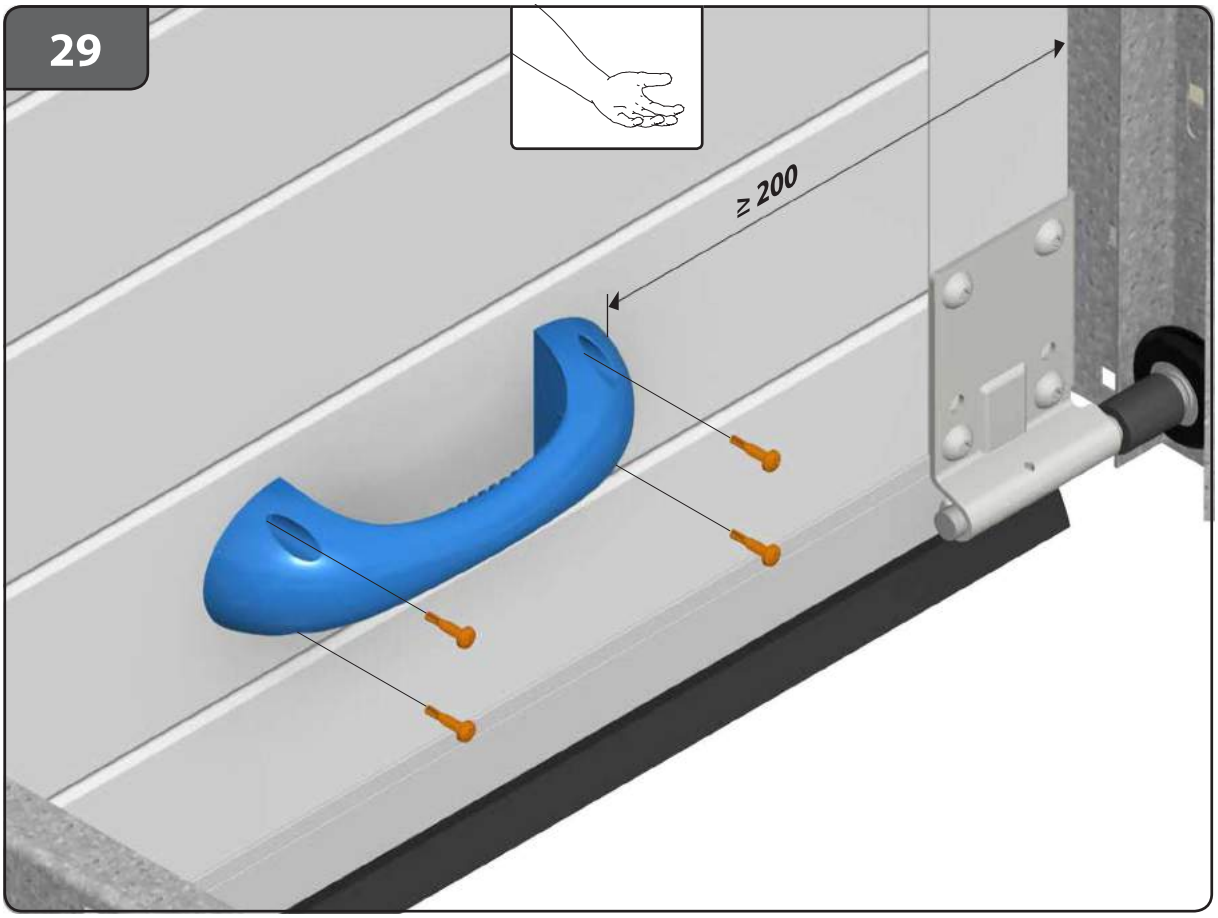

26
X = X
X ≠ X
CLICK!
150001
X
X

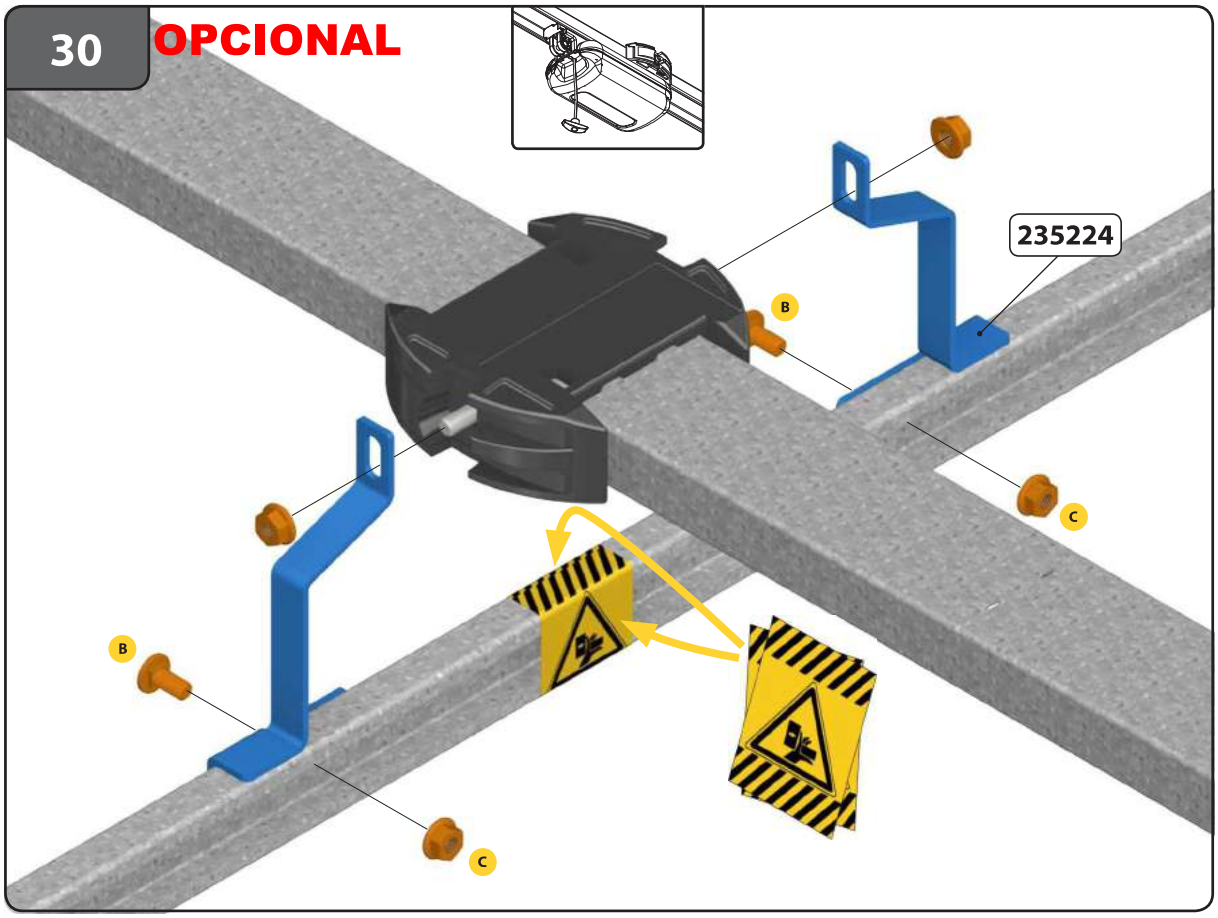
27

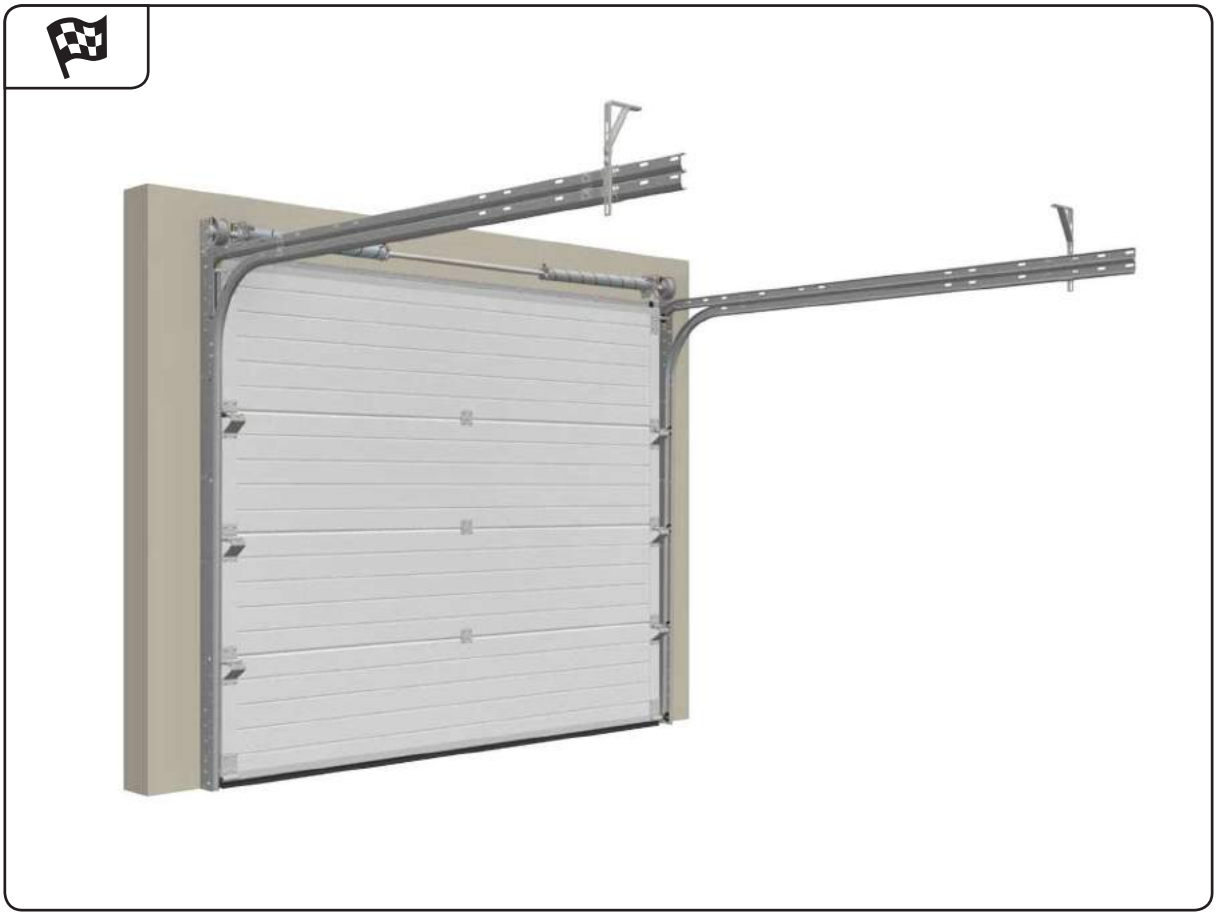


28 OPCIONAL




29
≥ 200


30
OPCIONAL
235224
B
C
B
C



9. Handover

The following documents must be provided to the end user:
- This manual (assembly, maintenance and disassembly)
- User guide
- Service manual
- Declaration of Performance (DoP)
- Declaration of Conformity (DoC), only in the case of a power operated door
- Inform the end user how to handle in case of malfunctions

9.1 First use

The first use of the garage door has to be carried out by an installer. After that the users can be instructed.
For more information refer to the user guide.

10. Electric operator (optional)

Mount the operator according the supplier's manual.

NOTE:
In case of power failure it should be possible to unlock the door using the emergency release from the operator .
The door leaf may only in that case, be operated with a handle.
If there is no second entrance to the garage, we recommend an external release lock (art 60011) to be fitted.

Do not fit a pull cord, shoot bolt or lock to an electrically operated door .

Ensure that the horizontal tracks are long enough for the electrically operator, this is with reference to the operator drawbar.
In the event that the tracks are too short, a longer horizontal track kit should be used.

10.1 Operator settings

Adjustment to the operator should be carried out in accordance with the operator manufacturers manual.
Please note that our hardware kits have been CE approved for use with the operators specified in our ITT report and enclosure B. Should a different operator be chosen, then the installer must carry out a peak force analysis in accordance with EN 12445 and EN 12453.

11. Disassembly

Disassembly should be only carried out by a qualified residential door company/installer.
The door should be disassembled in the reverse sequence to the assembly manual.

11.1 Disposal

All parts of this garage door can be easily disposed of.
Please consult your local authorities on this matter.

12. Maintenance

! In accordance with EU standards, sectional overhead doors should be checked, from the first time of use, based on the indicated service by the installer.
This inspection service has to be recorded written.
This inspection service should be carried out by an approved installer/company.

Directly after installing (by installer):
1. Lubricate the running part of the tracks (advice: PTFE spray)
2. Lubricate bearings and roller shafts (advice: PTFE spray)
3. Lubricate pins of the hinges from intermediate and side hinges (advice: PTFE spray)
4. Lubricate sealing rubbers (advice: special rubber grease or Vaseline)

After 3 months (by installer):
1. Check balancing system. If required, adjust spring tension (relaxation springs)
2. Complete visual inspection

Every 6 months or every 750 door cycles (by user):
1. Check side seal, top seal and bottom seal for damage, wear or tear
2. Lubricate the running part of the tracks (advice: PTFE spray)
3. Lubricate bearings, and roller shafts (advice PTFE spray)
4. Lubricate pins of the hinges from intermediate and side hinges (advice: PTFE spray)
5. Lubricate sealing rubbers (advice: special rubber grease or Vaseline)
6. Clean the panels (advice: car shampoo and water); do not use aggressive detergents
7. Wax the panels (advice: car wax)
8. Remove dirt from the door and surroundings

Every 12 months or every 1500 door cycles (by installer):
1. Check the cables and their end connections, bottom brackets for wear or damage
2. Check the balance of the door and adjust if needed / check the manual operation
3. Check the hinges on wear or damage
4. Check the pulleys for wear or damage
5. Check the rollers for wear and damage
6. Check or test the spring fixations
7. Check the closing forces of the main closing edge
8. Check the suspension from the horizontal track to the ceiling
9. Check the side seals for wear or damage
10. Check the bottom seal for wear or damage
11. Check the seal of the top panel for wear or damage
12. Check the panels for wear or damage

13. Replacements of parts

Only use original DOCO spare parts!
Maintenance should only be performed by a qualified residential door company / installer.

After breakage of spring(s):
Replace all springs at once according installation manual.

After cable break or damage:
Replace all cable sets at once according installation manual.