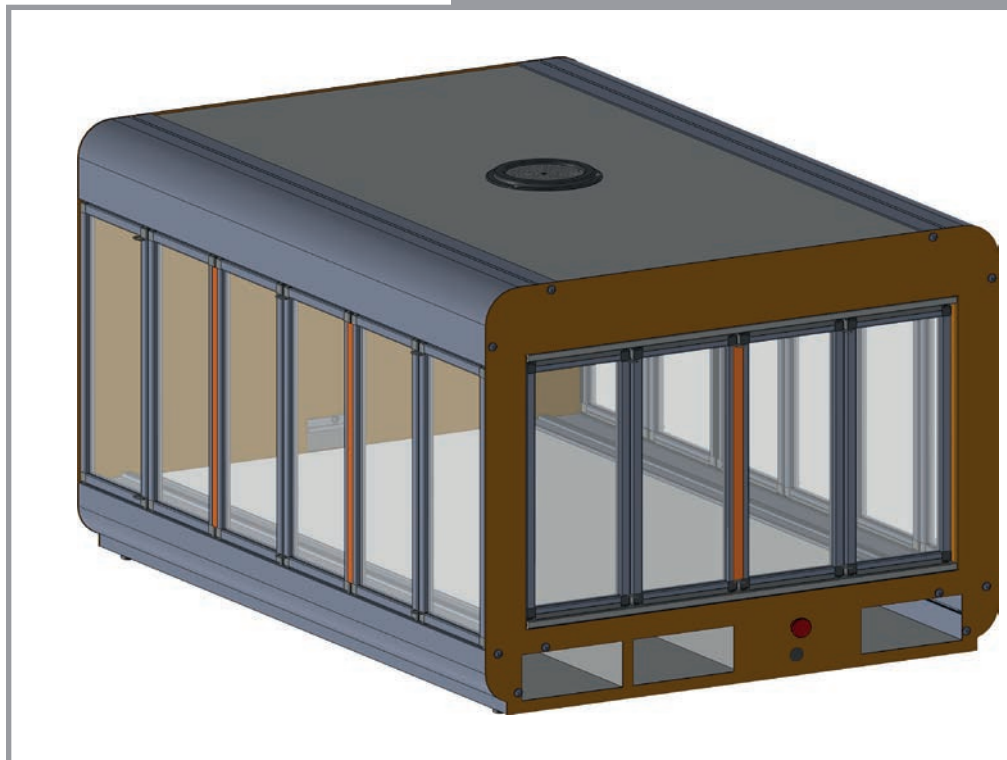


EASYBUILD- ASSEMBLY MANUAL

ENCLOSURE FOR DESKTOP CNC /3D SYSTEMS STEPCRAFT 600/ 840



Original assembly manual
date of 10.03.2017

Dear customer,

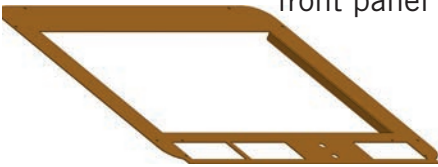
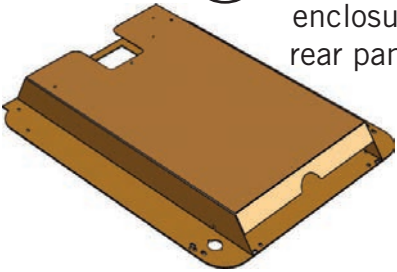
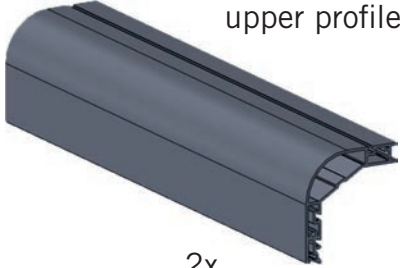
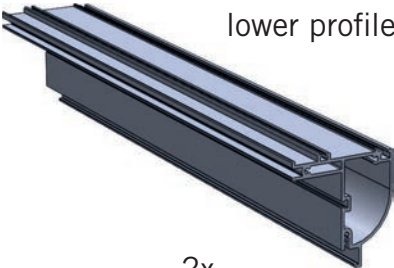
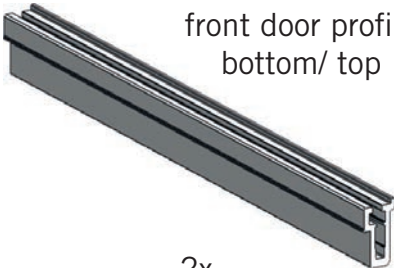


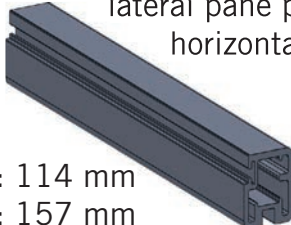

thank you very much for purchasing our high-quality kit of an enclosure of your **STEPCRAFT** Desktop CNC /3D System. This manual will take you through every step of the assembly.

Please read the entire manual carefully before starting assembly. This way, you obtain an overview of the steps require which will help you avoid unnecessary mistakes. Please take care to use the the correct parts in the correct orientation as some parts differ only minimally. Please let a second person assist you in the assembly.

Before beginning the assembly process, please verify that you have all of the required parts in your kit using the list below. **STEPCRAFT** provides video support with certain assembly steps. Simply scan the related QR code with your smart-phone. If you do not have a smartphone, please enter the following URL in your web browser: www.stepcraft-systems.com/enclosure/xx-xx (replace xx-xx with the number under the QR code).

STEPCRAFT has taken extreme care to ensure the correctness of the information contained in this manual. We accept no liability for damage in materials or injury to persons caused by assembling the enclosure. You are responsible for the safe operation of your **STEPCRAFT** Desktop CNC /3D System and its accessories.

Content of the construction kit (illustrations are not true to scale)

<p>1</p> <p>enclosure front panel</p>  <p>1x</p>	<p>2</p> <p>enclosure rear panel</p>  <p>1x</p>	<p>3</p> <p>upper profile</p>  <p>2x</p>
<p>4</p> <p>lower profile</p>  <p>2x</p>	<p>5</p> <p>front door profile bottom/ top</p>  <p>2x</p>	<p>6</p> <p>lateral pane profile vertical without handle 413 mm</p>  <p>18x</p>
<p>7</p> <p>lateral pane profile vertical with handle 411 mm</p>  <p>6x</p>	<p>8</p> <p>lateral pane profile horizontal</p> <p>600: 114 mm 840: 157 mm</p>  <p>24x</p>	<p>9</p> <p>front pane profile vertical without handle 374 mm</p>  <p>6x</p>

10

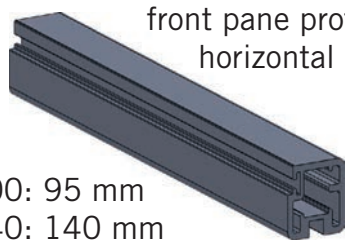
front pane profile
vertical with handle
372 mm



2x

11

front pane profile
horizontal

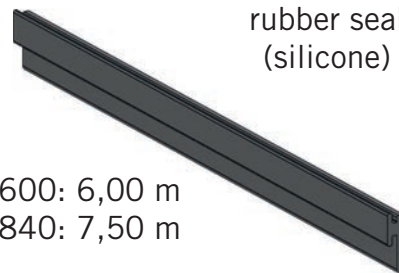


600: 95 mm
840: 140 mm

8x

12

rubber seal
(silicone)

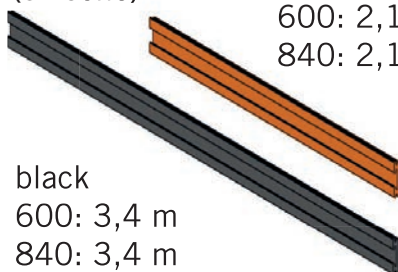


600: 6,00 m
840: 7,50 m

connection
profile
(silicone)

13

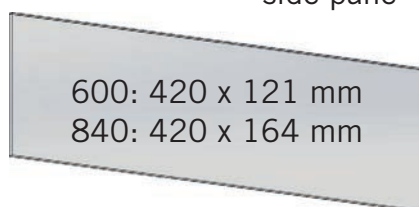
orange
600: 2,1 m
840: 2,1 m



black
600: 3,4 m
840: 3,4 m

14

side pane

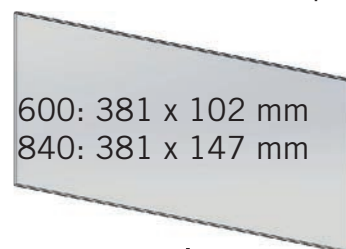


600: 420 x 121 mm
840: 420 x 164 mm

12x

15

front pane

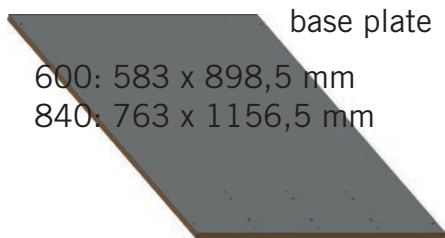


600: 381 x 102 mm
840: 381 x 147 mm

4x

16

base plate

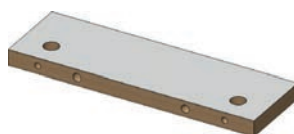


600: 583 x 898,5 mm
840: 763 x 1156,5 mm

1x

17

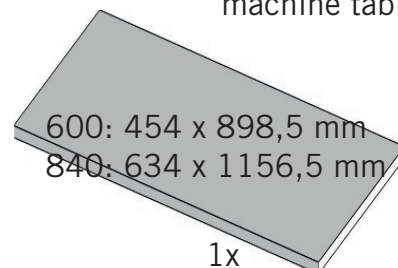
base plate partition



600: 2x
840: 3x

18

machine table

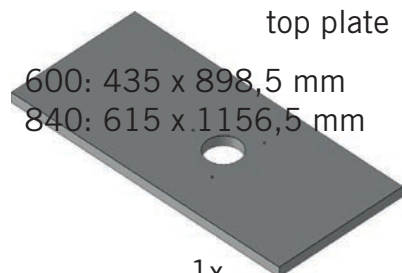


600: 454 x 898,5 mm
840: 634 x 1156,5 mm

1x

19

top plate



600: 435 x 898,5 mm
840: 615 x 1156,5 mm

1x

20

plastic corner



70x

21

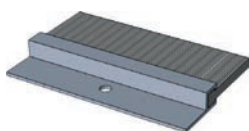
circular brush



1x

22

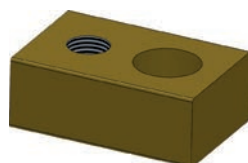
strip brush
cable outlet



1x

23

slot nut,
lockable



6x

24

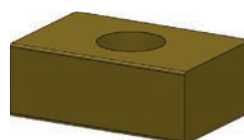
slot nut,
loose



10x

25

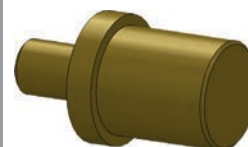
slot nut, loose
external



6x

26

pivot pin



32x

27

door handle



16x

28

pressure pin



16x

29

plastic foot



4x

30

socket head screw,
M6 x 30 mm



4x

31

socket head screw,
M5 x 30 mm



6x

32

flange screw,
M5 x 12 mm



2x

33

flange screw,
M6 x 20 mm



20x

34

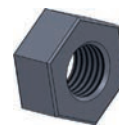
set screw,
M4 x 5 mm



6x

35

locking nut,
M5



6x

36

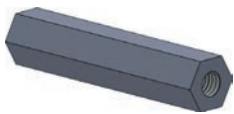
spacer
M3 x 10 mm



2x

37

spacer,
M5 x 50 mm



1x

38

button head
cap screw,
M3 x 6 mm



4x

39

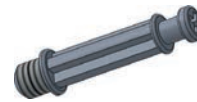
wooden dowel



600: 4x
840: 6x

40

cam lock screw



600: 4x
840: 6x

41

cam screw



600: 4x
840: 6x

42

end switch with
cable supply



3x

43

cable conduit
6/4 mm



600: 3,30 m
840: 4,30 m

44

emergency switch



1x

45

emergency switch
cable



600: 1,11 m
840: 1,35 m

46

controller board



1x

47

hole plug
8 mm



1x

48

hole plug
36 mm



1x

49

15 pin Sub-D
cable



1x

50

wood screw
3,5 x 15 mm



3x

51

grounding cable
set incl. serrated
lock washer



1x

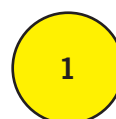
Explanation of symbols and details:



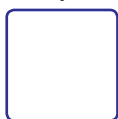
= assembly phase



= assembly group



= work step



= view of assembly phase



= required parts for this work step



= larger detailed view/
pre-assembly of parts



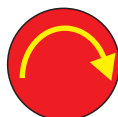
= Tighten the screw.



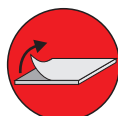
= Engage the screw, but do not tighten.



= Caution! Work particularly careful.



= Tighten clockwise.



= Remove protection film and affix self-adhesive part.



= Fasten part with superglue, use sparingly, must not get on bearing or running surface.



= Deburring.



= Apply dish liquid as shown in picture.

Required tools and materials:



- Needle file (supplied)
- Allen wrench 2,0 mm
- Allen wrench 3,0 mm
- Allen wrench 4,0 mm
- Allen wrench 5,0 mm

- Spanner 5,5 mm
- Spanner 8 mm
- Rubber mallet
- Crosstip screwdriver
- Superglue

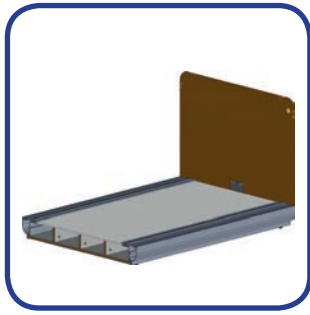
Differences in the assembly size 300 and 420:

The illustrations in this assembly manual are exemplary and are based on the enclosure for size 840.

Please pay attention to the different dimensions of the individual parts!

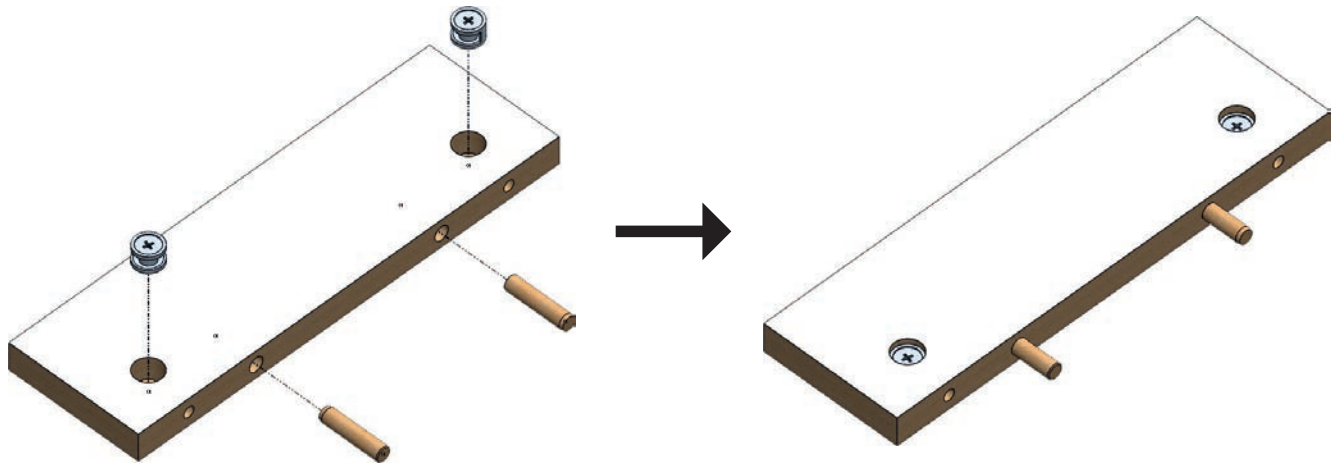
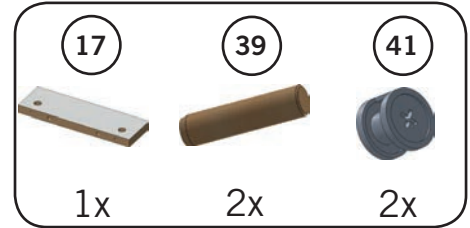


1



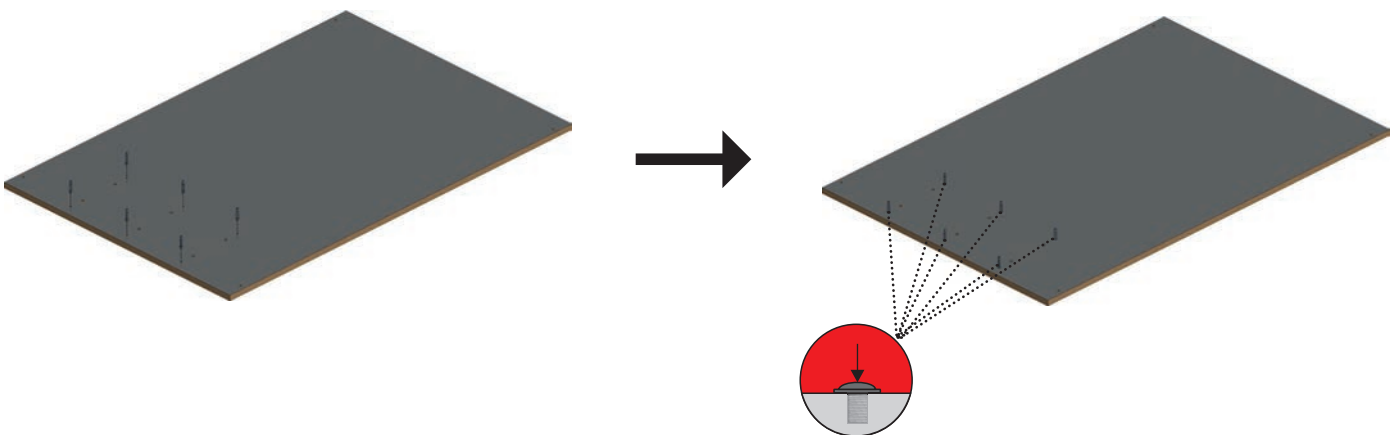
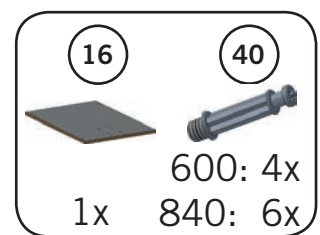
Base frame

A

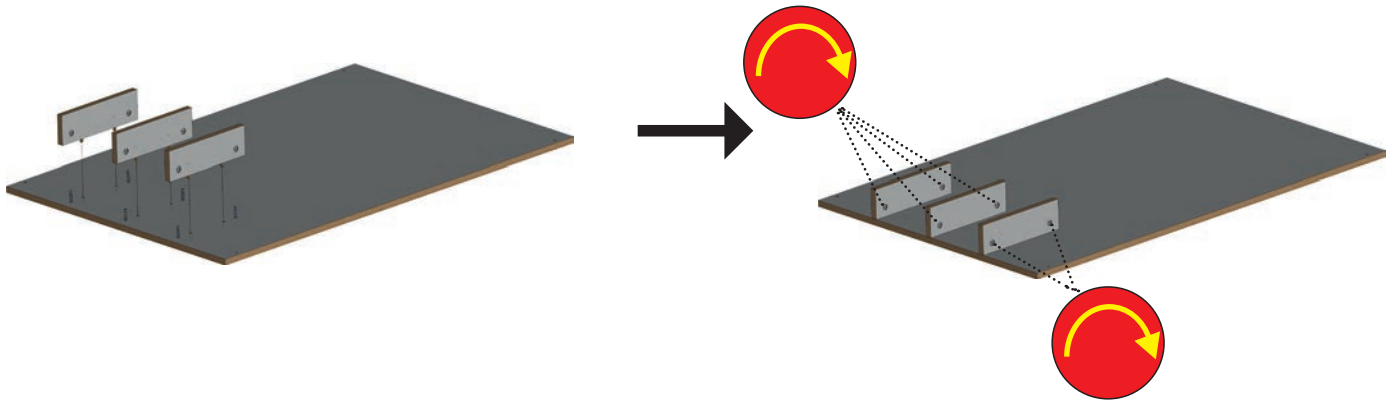
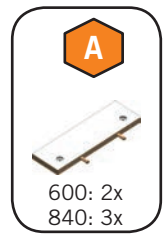


! Size 600: Please produce 2x !
! Size 840: Please produce 2x !

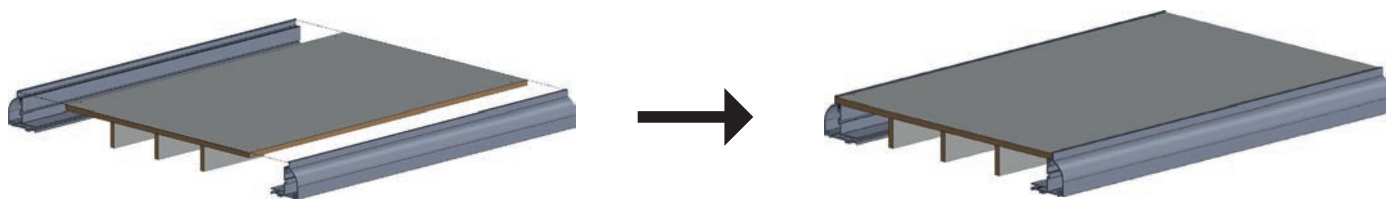
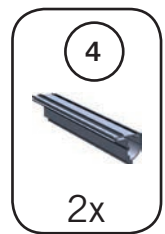
1.1



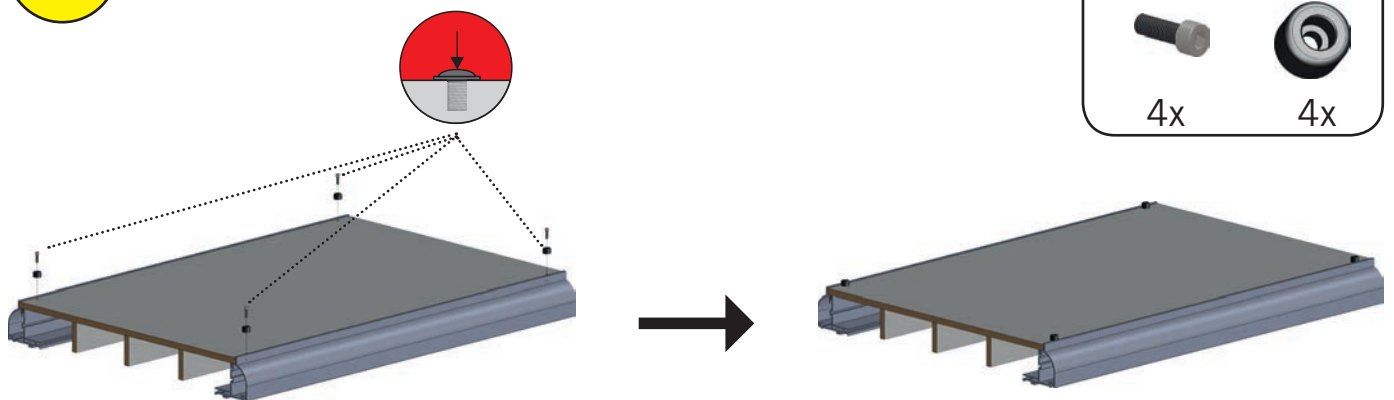
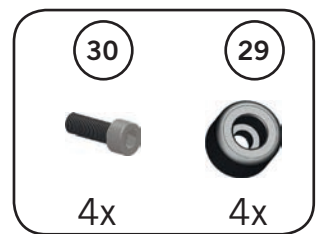
1.2



1.3

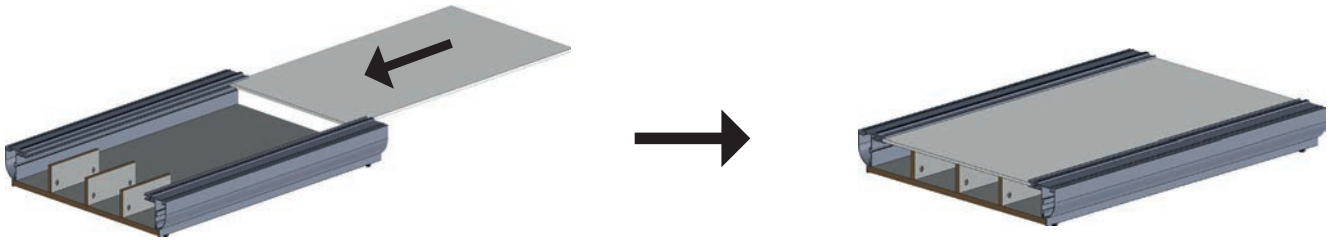


1.4



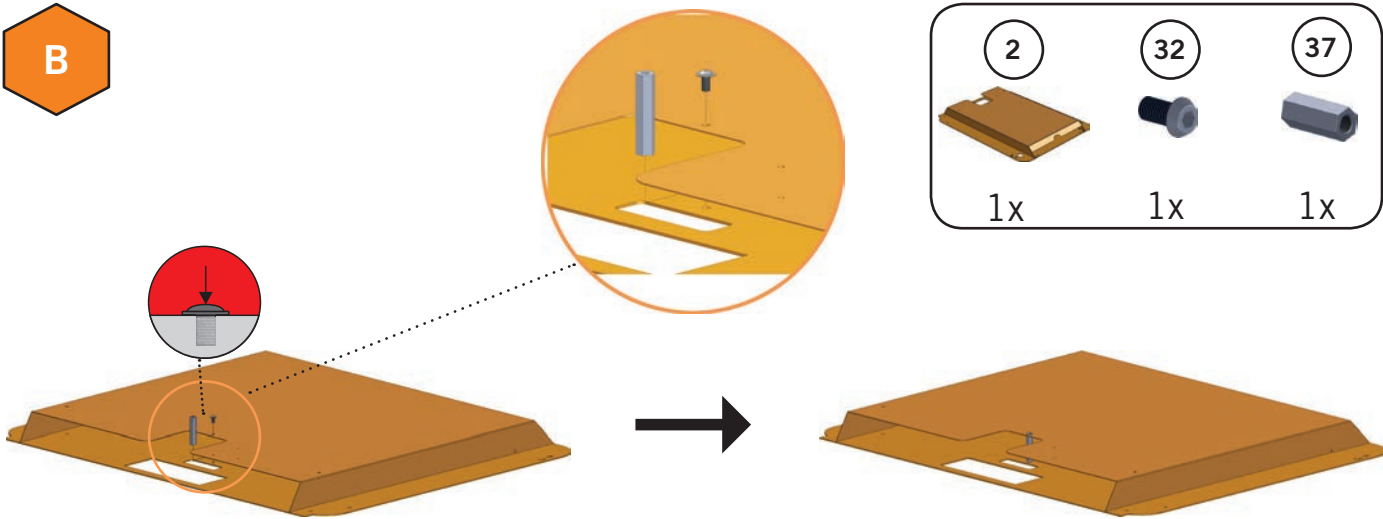
1.5

18
1x



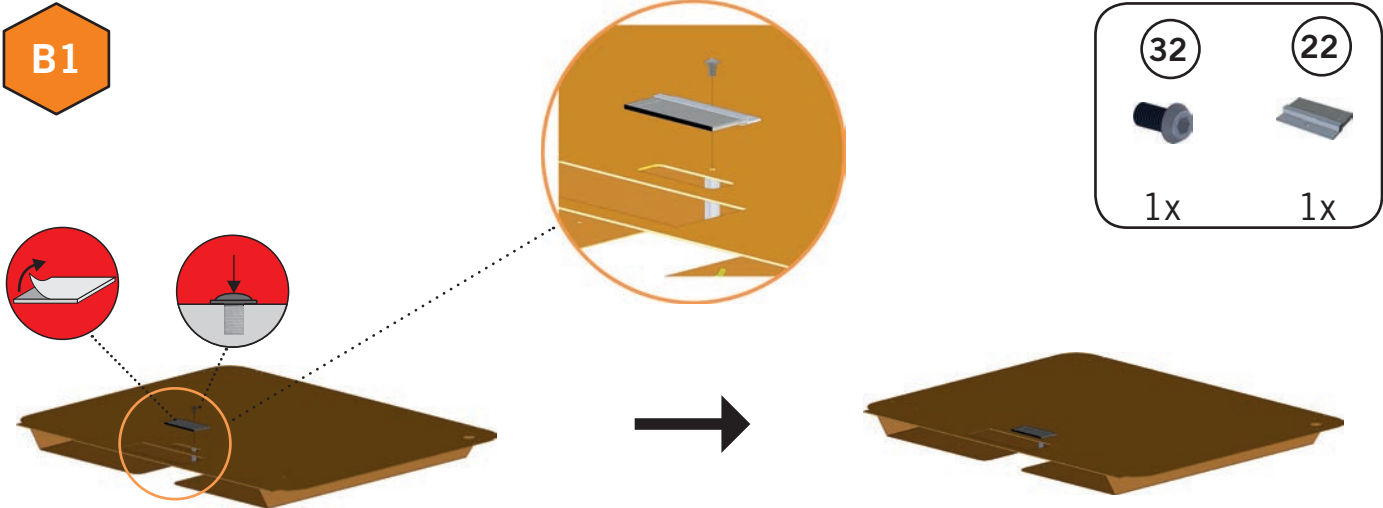
B

2 32 37
1x 1x 1x

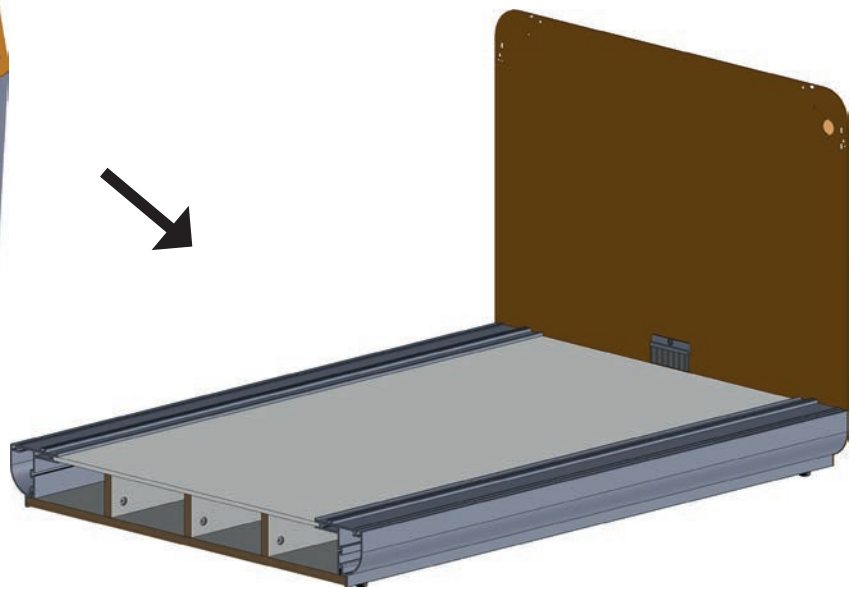
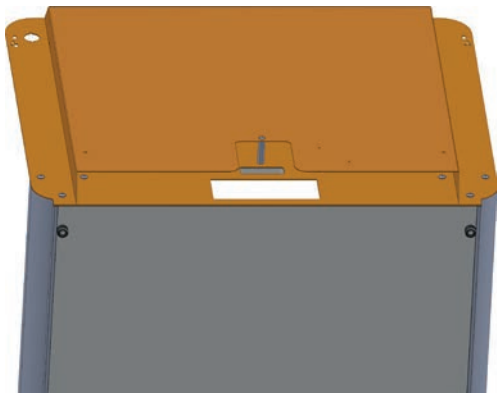
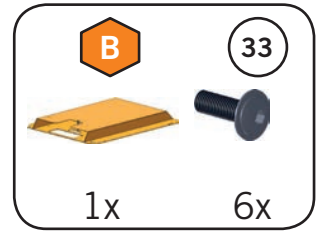
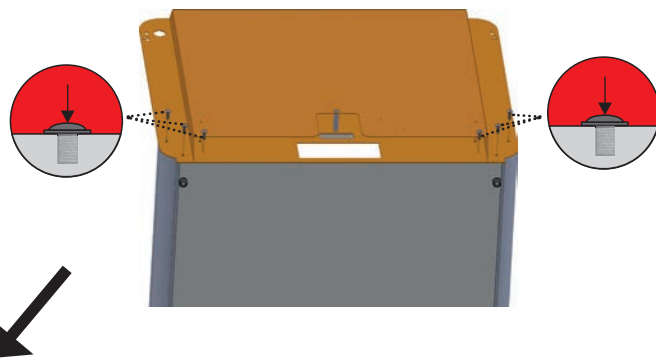


B1

32 22
1x 1x



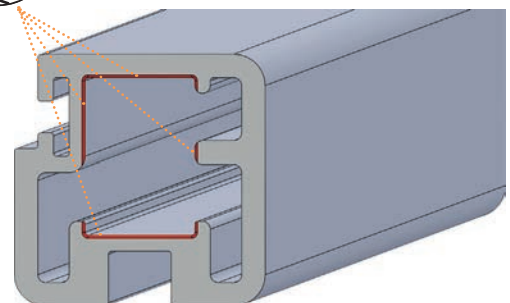
1.6



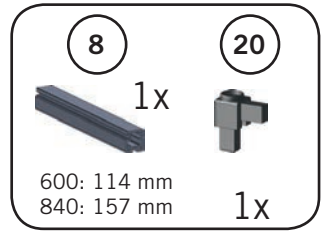
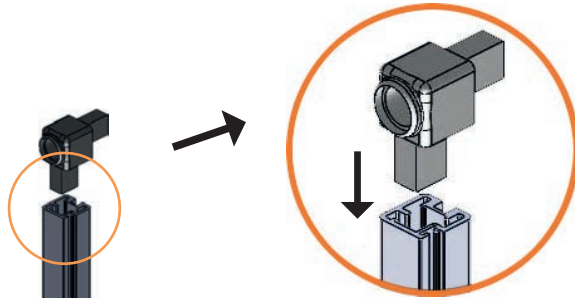
Preparatory steps for all doors:



Before attaching the plastic corners it is especially important that the leading edges of all profiles are deburred with the supplied needle file in order to avoid blocking due to plastic chips.



C

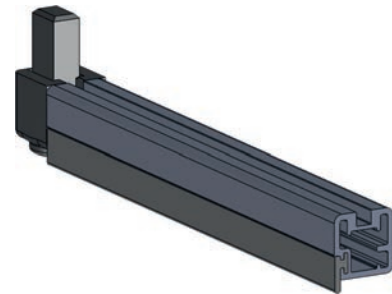
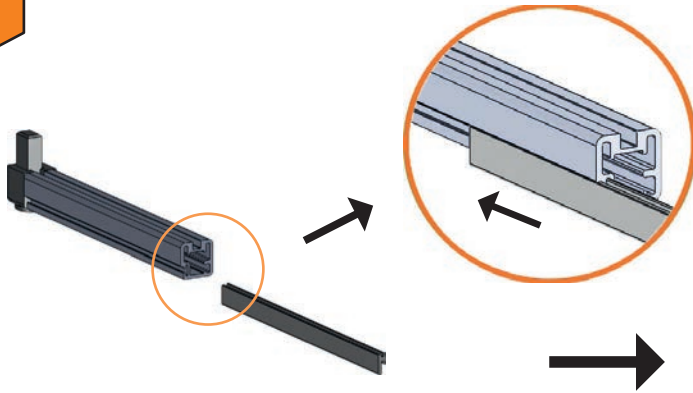


Please pay attention to the correct length!
114/ 157 mm !

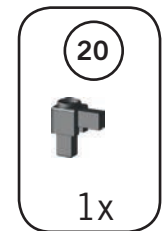
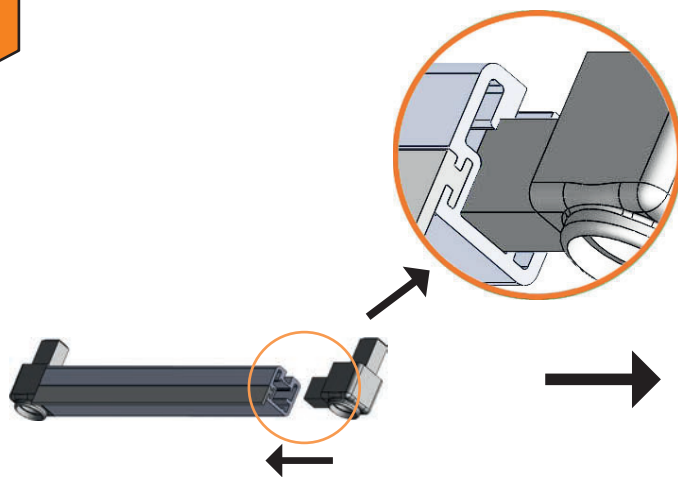


For an easier assembly of the plastic corners, please turn the profile and use the rubber mallet to fix it to the corner!

C1

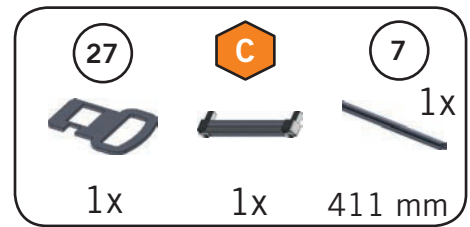


C2

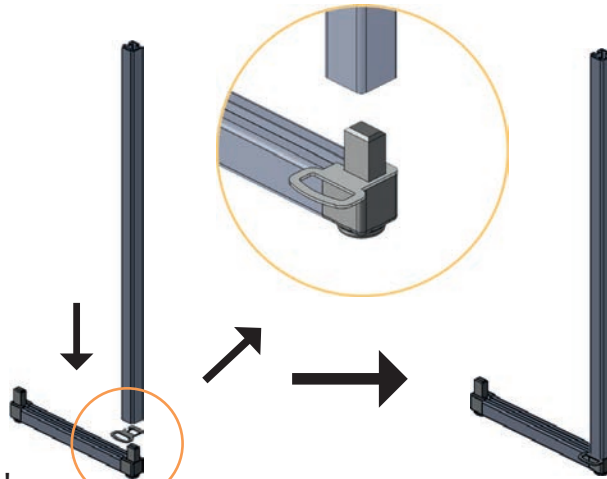


! Please produce 24x !

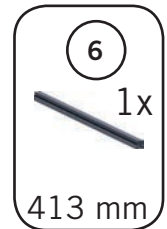
D



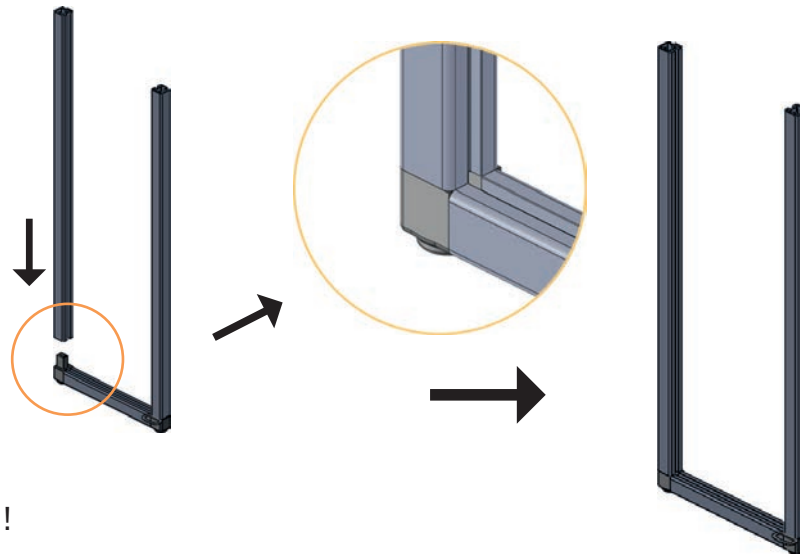
Please pay attention to the correct length!
411 mm !



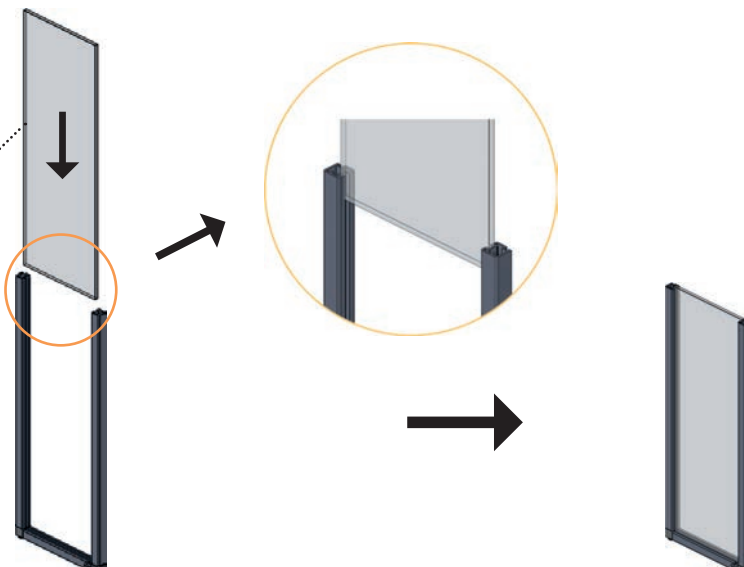
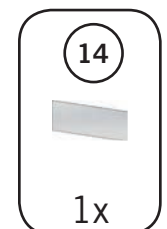
D1



Please pay attention to the correct length!
413 mm !



D2



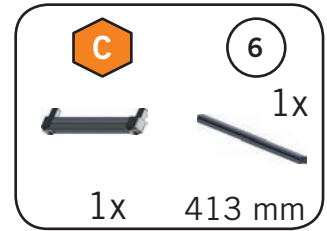
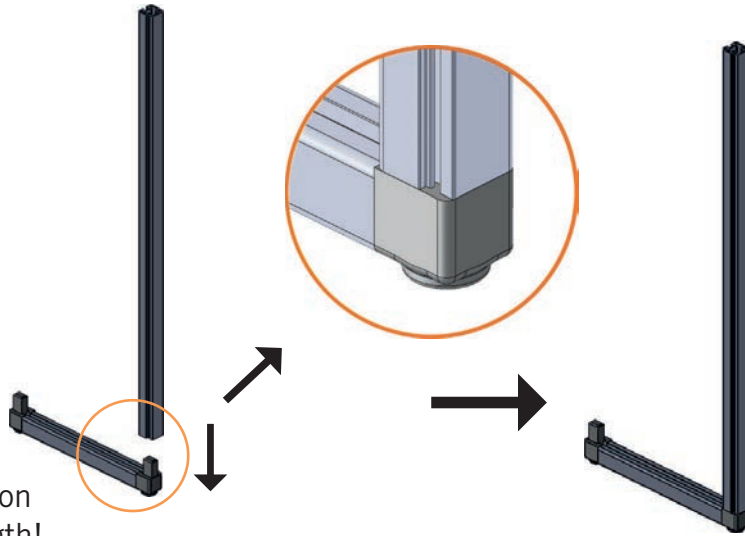
! Please produce 2x !



E



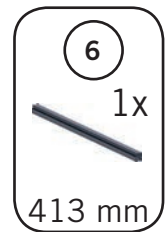
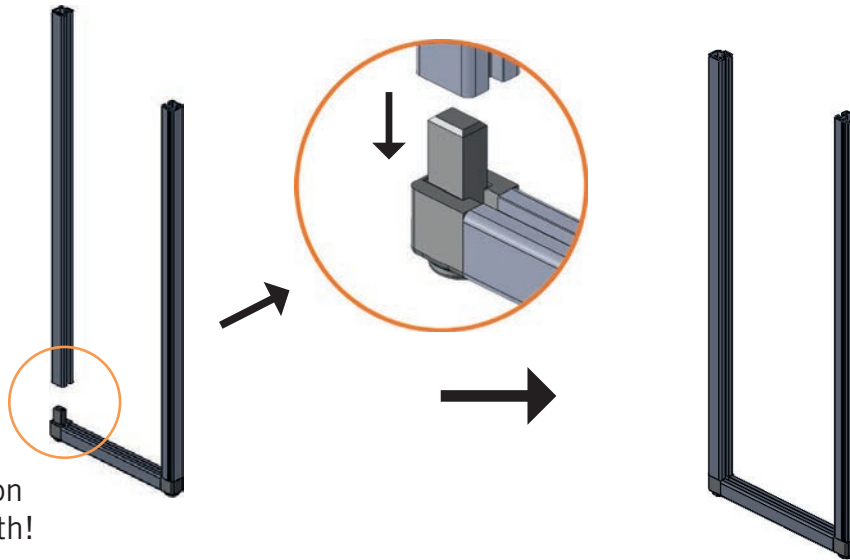
Please pay attention
to the correct length!
413 mm !



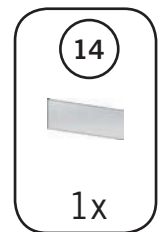
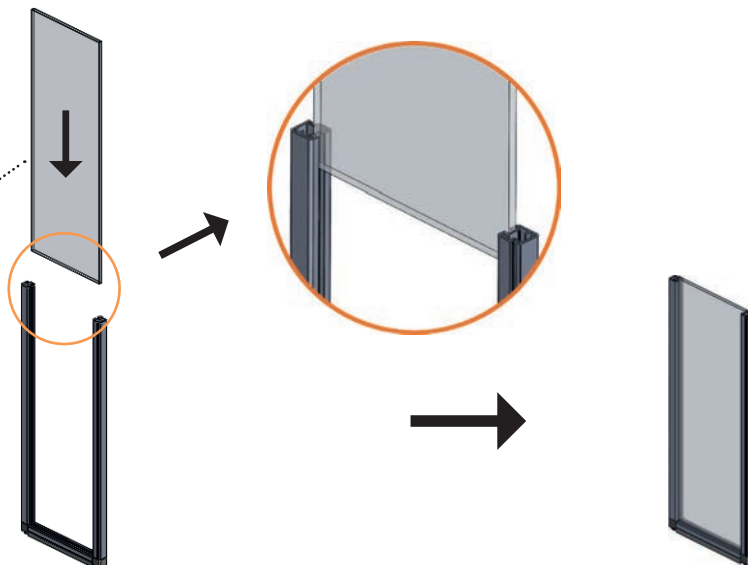
E1



Please pay attention
to the correct length!
413 mm !



E2

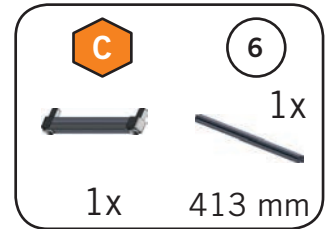
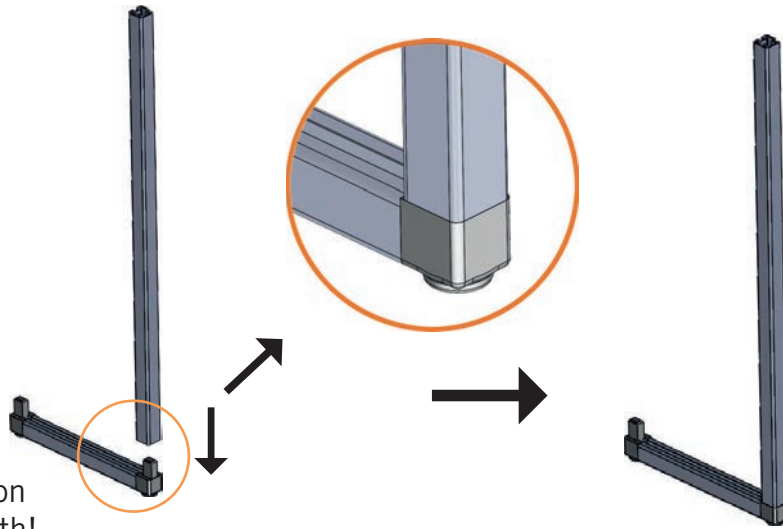


! Please produce 2x !

F



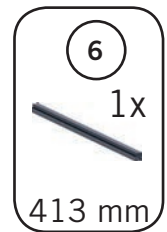
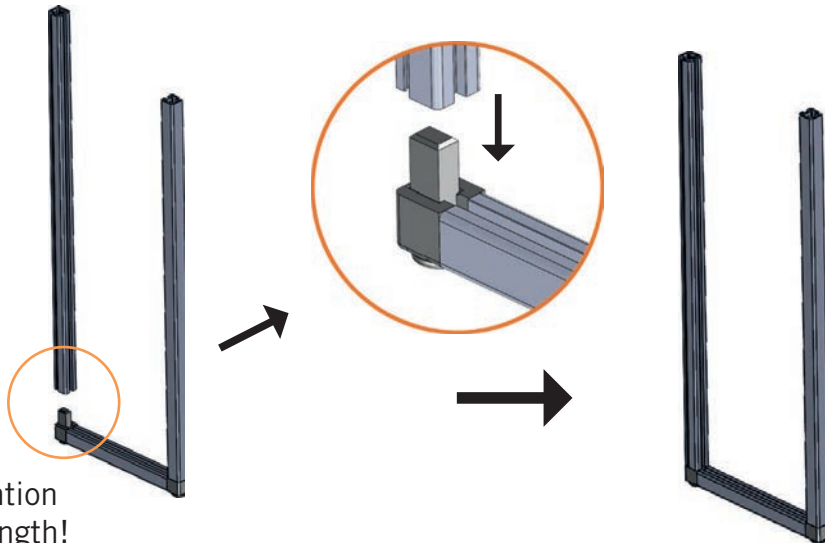
Please pay attention
to the correct length!
413 mm !



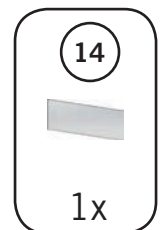
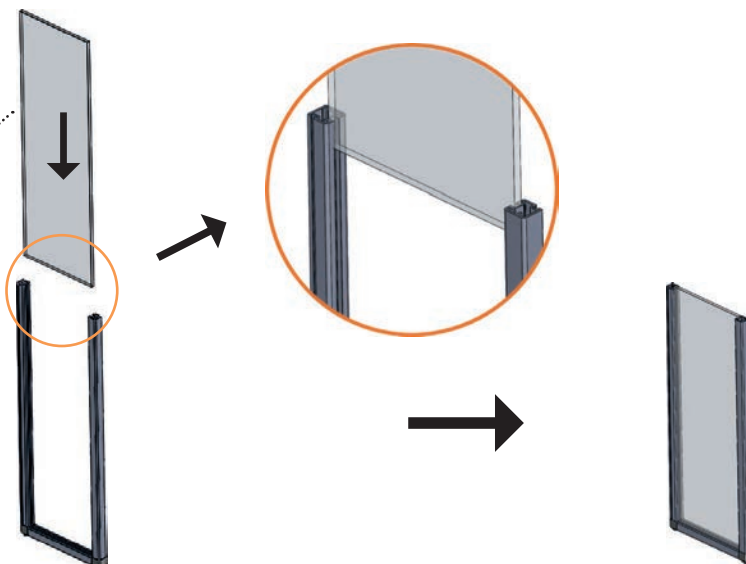
F1



Please pay attention
to the correct length!
413 mm !



F2

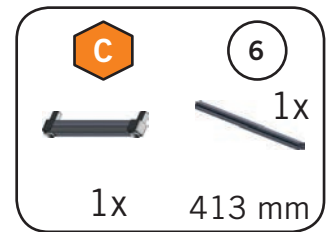
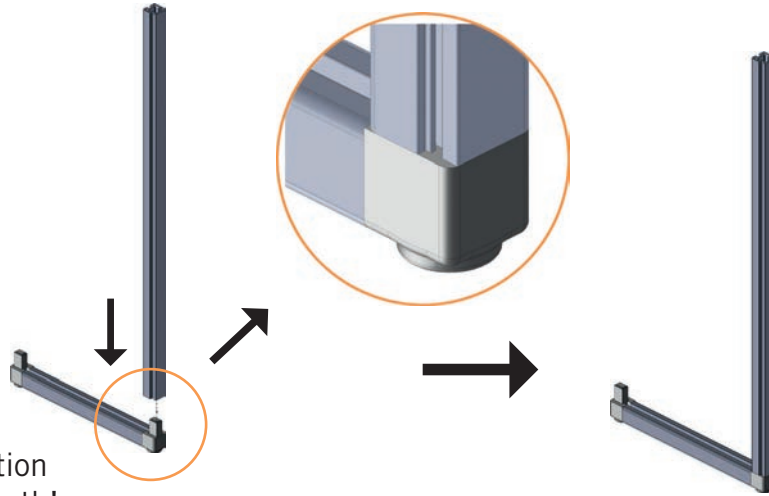


! Please produce 2x !

G



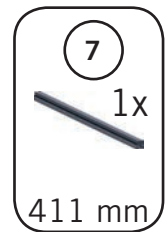
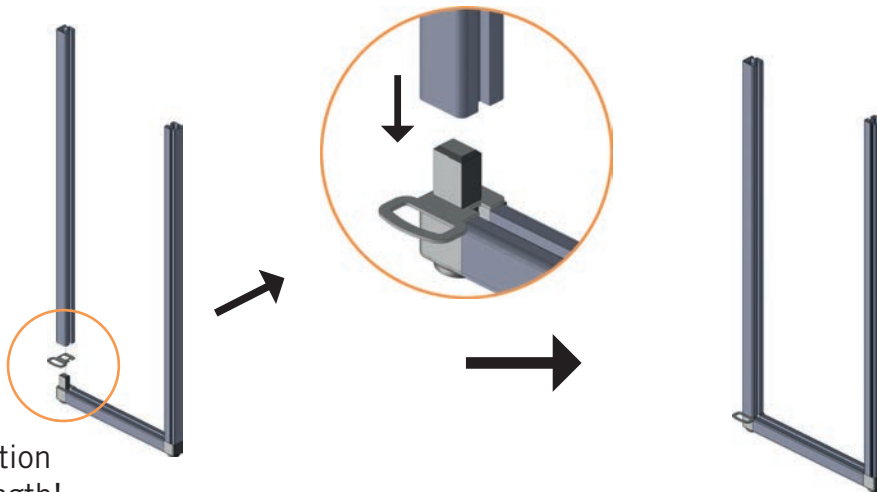
Please pay attention
to the correct length!
413 mm !



G1



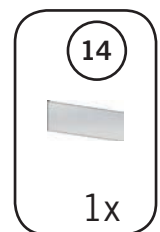
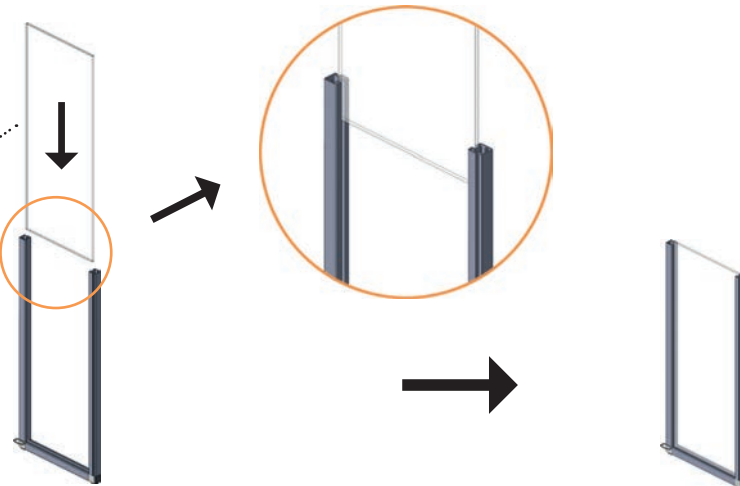
Please pay attention
to the correct length!
411 mm !



G2



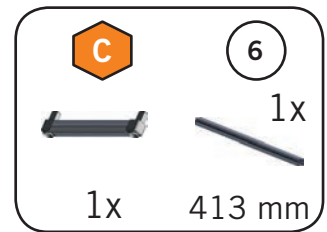
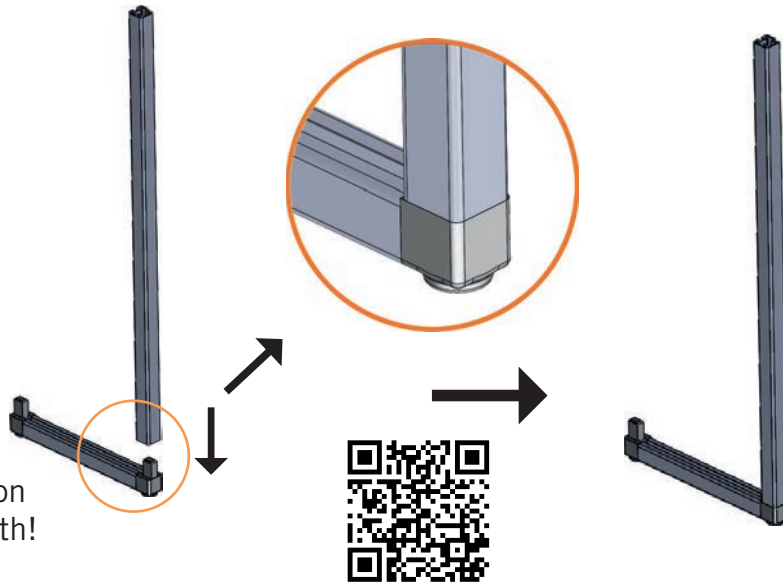
! Please produce 2x !



H



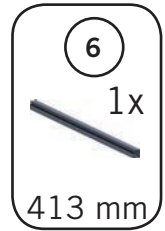
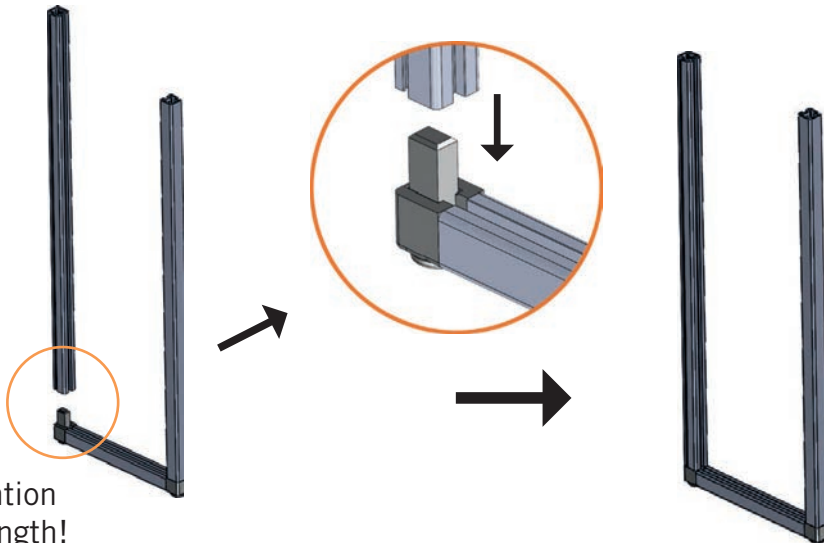
Please pay attention
to the correct length!
413 mm !



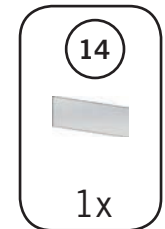
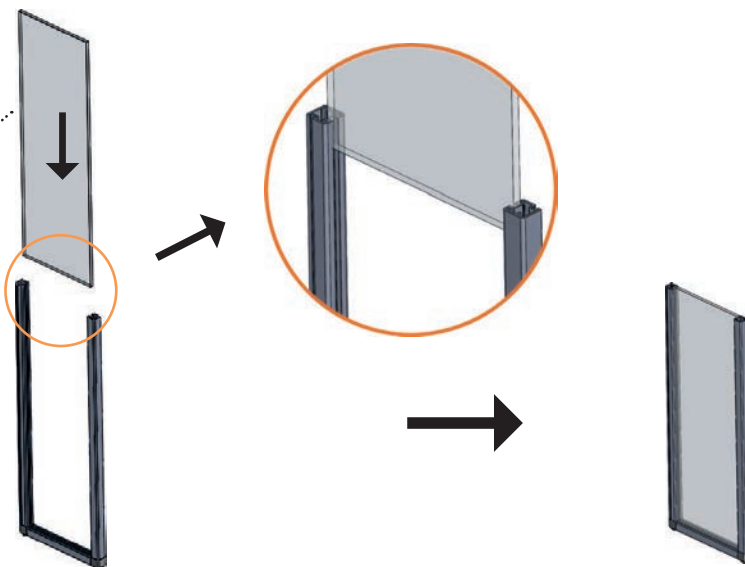
H1



Please pay attention
to the correct length!
413 mm !

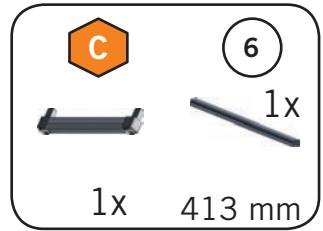
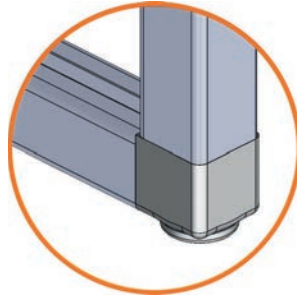
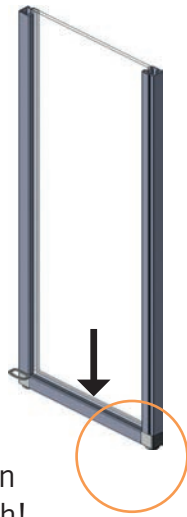


H2



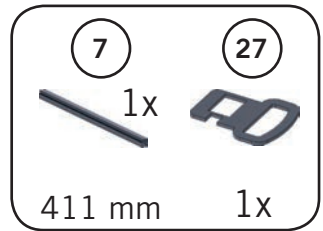
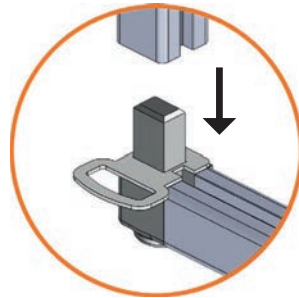
! Please produce 2x !

I



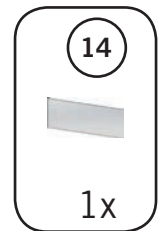
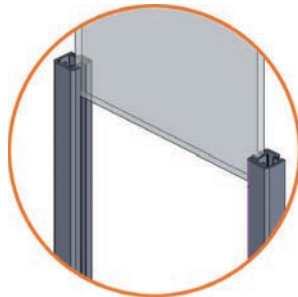
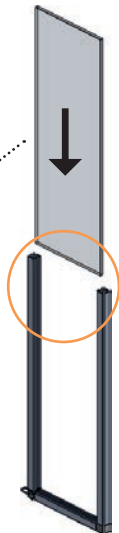
Please pay attention to the correct length!
413 mm !

I1



Please pay attention to the correct length!
411 mm !

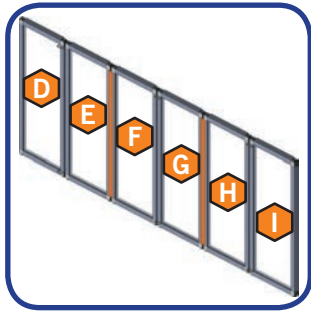
I2



! Please produce 2x !

2

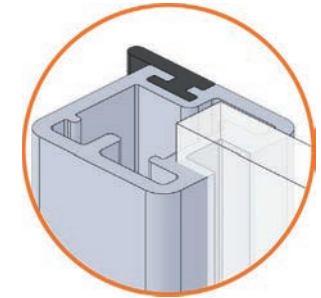
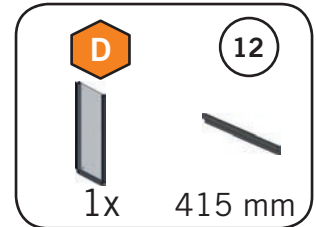
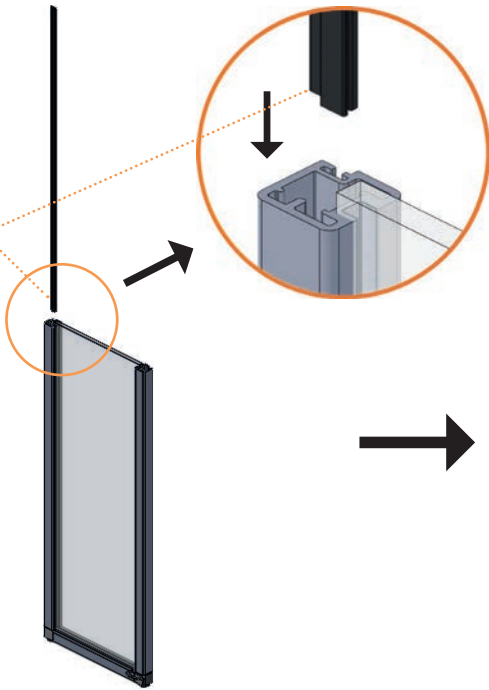
2 x



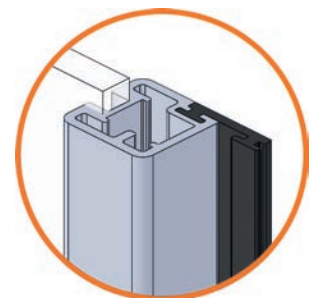
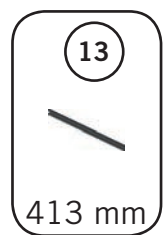
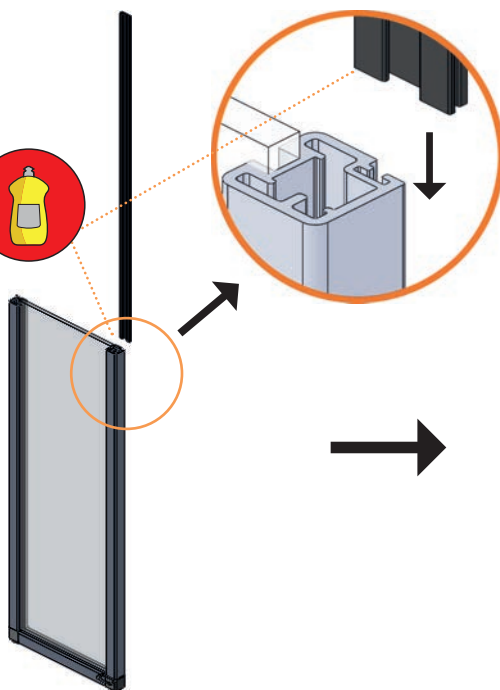
Side doors

(produce 2x)

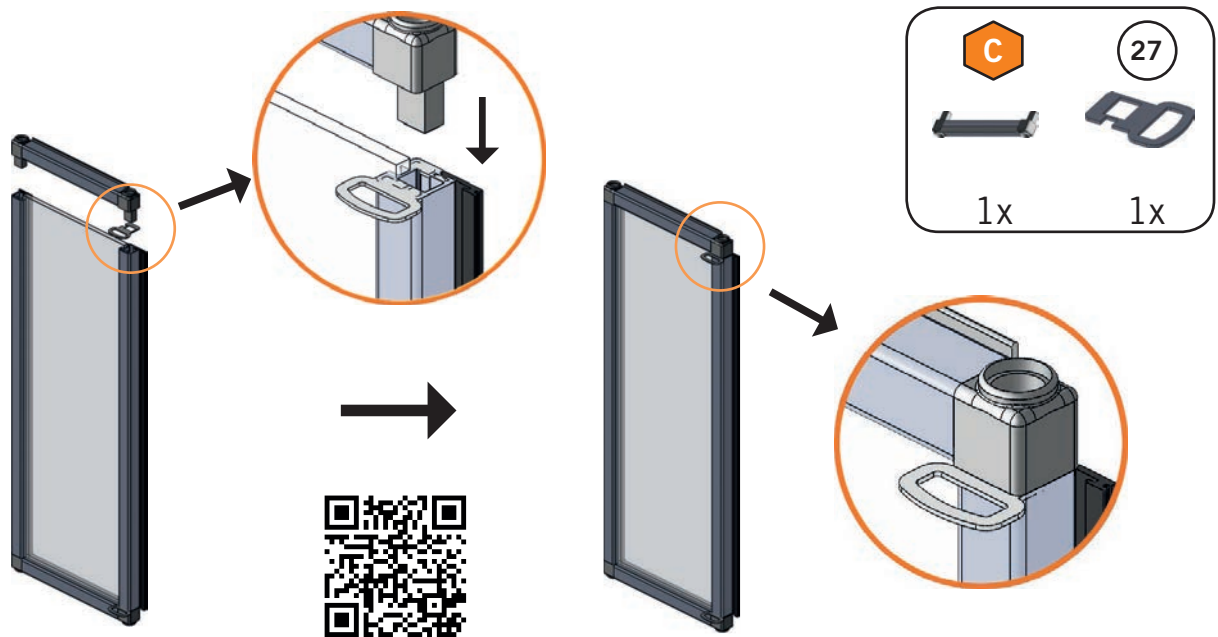
2.1



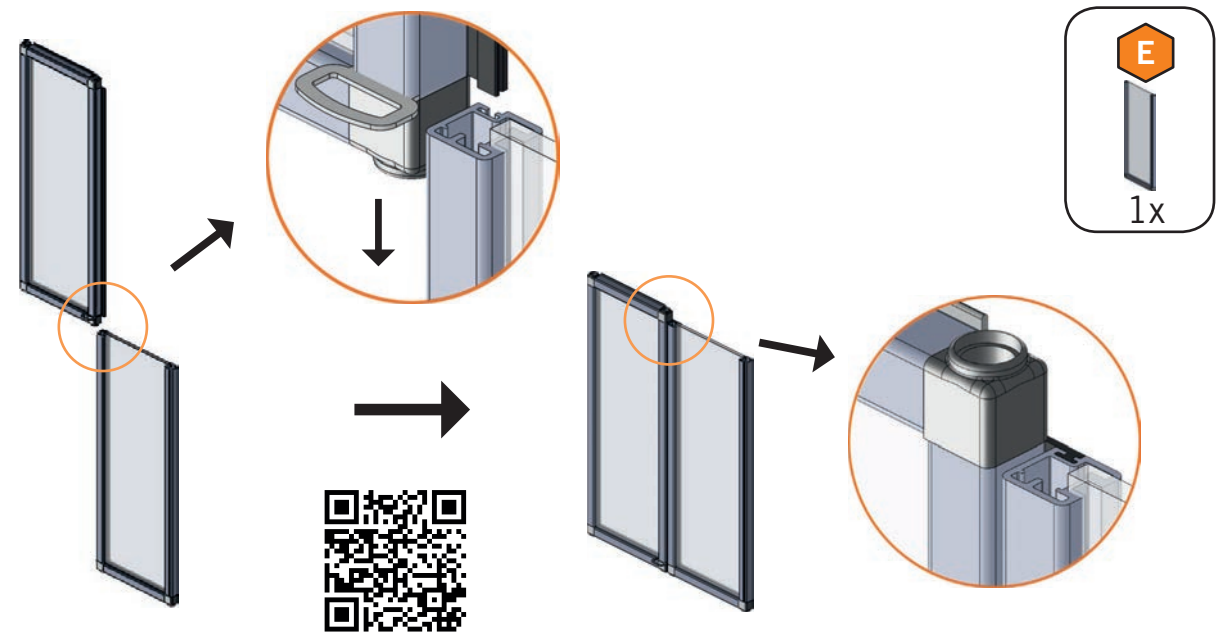
2.2



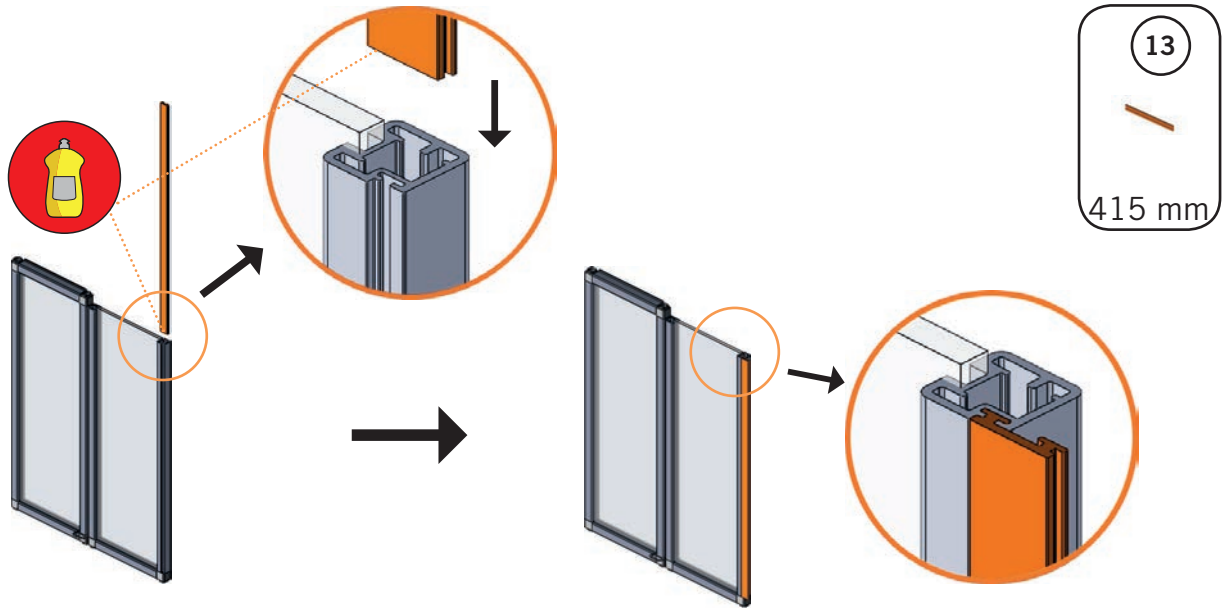
2.3



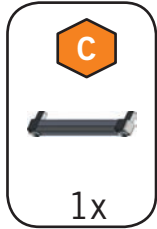
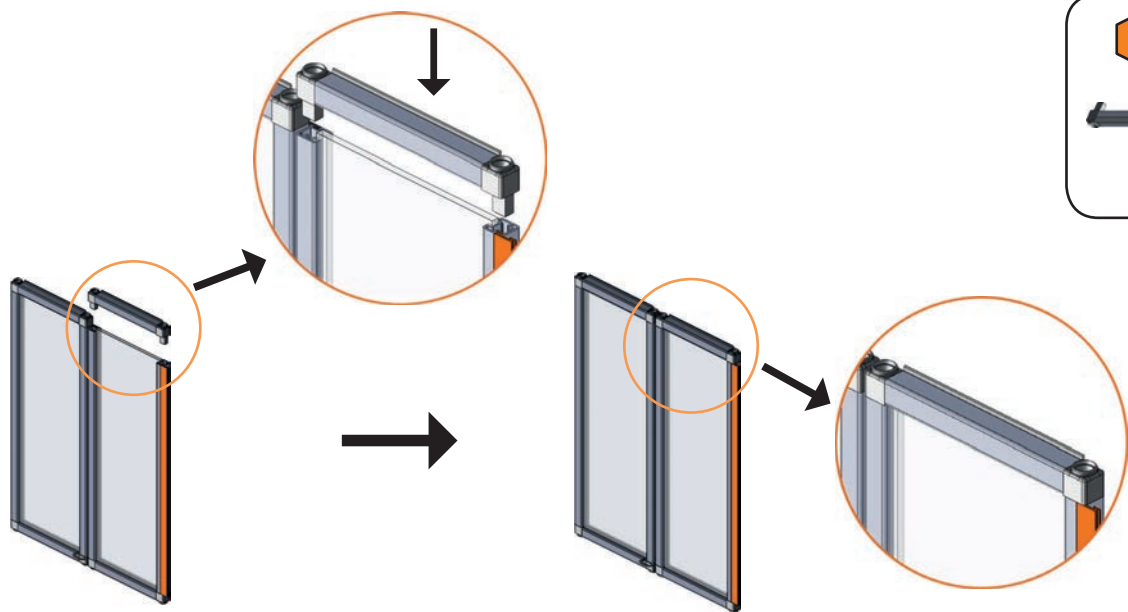
2.4



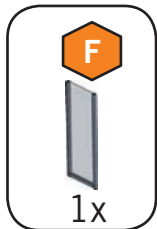
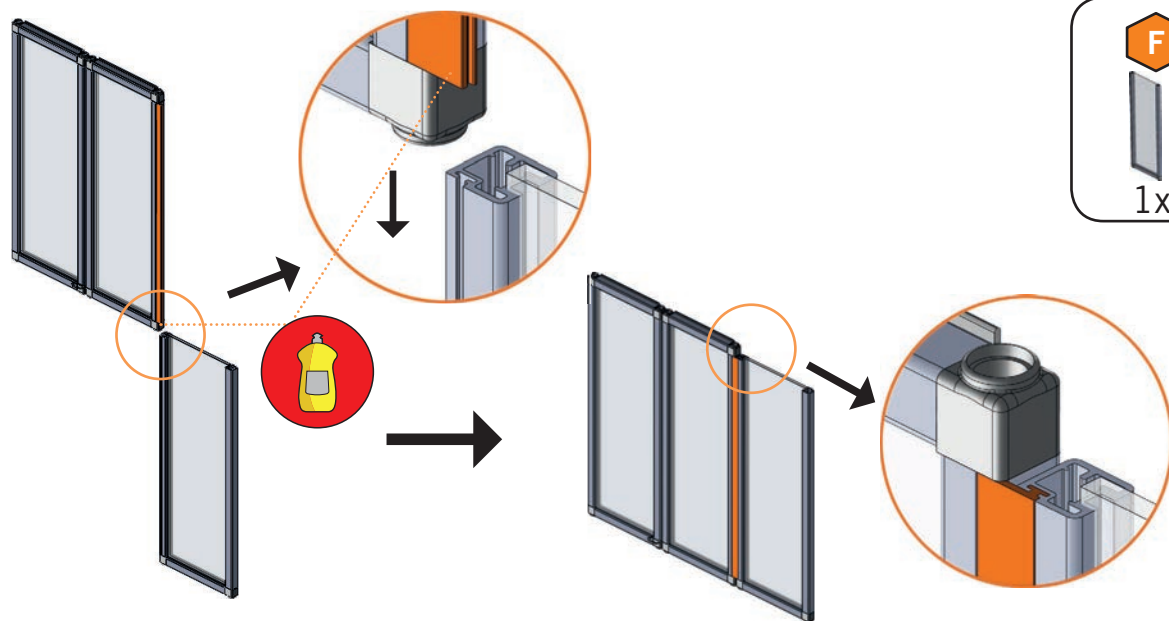
2.5



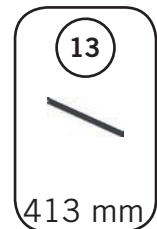
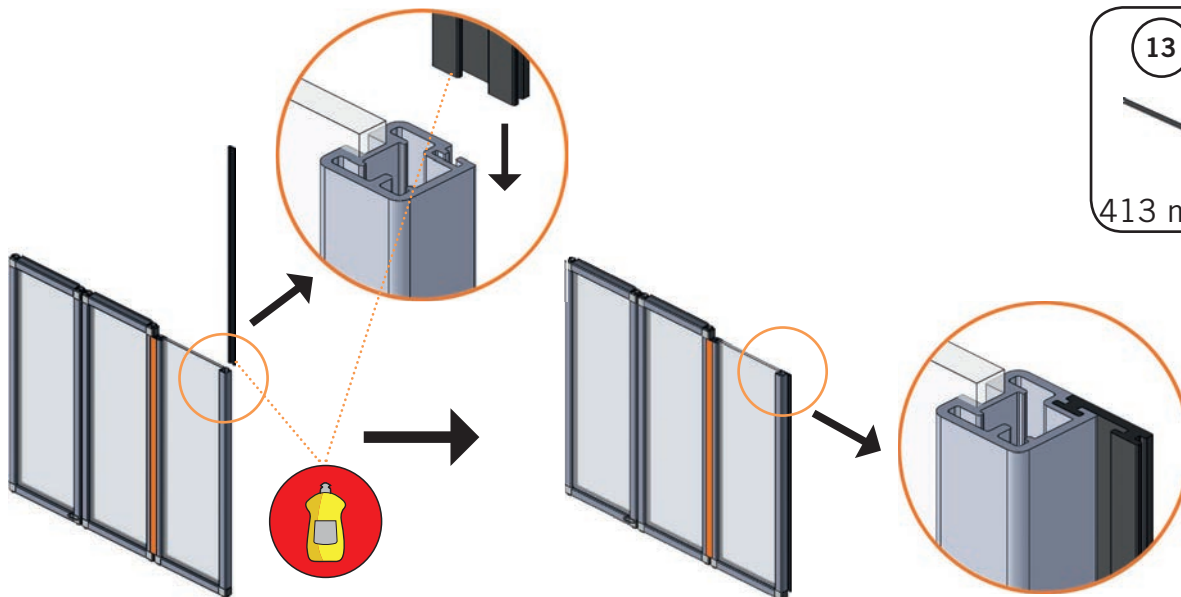
2.6



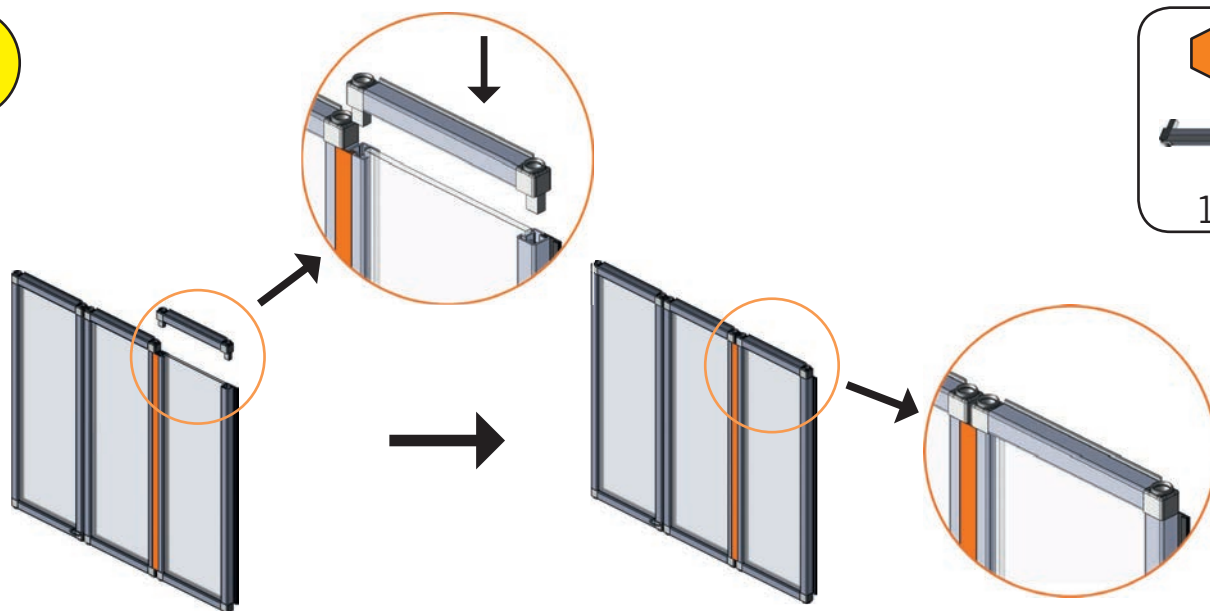
2.7



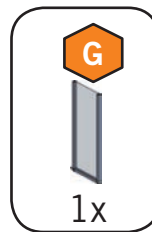
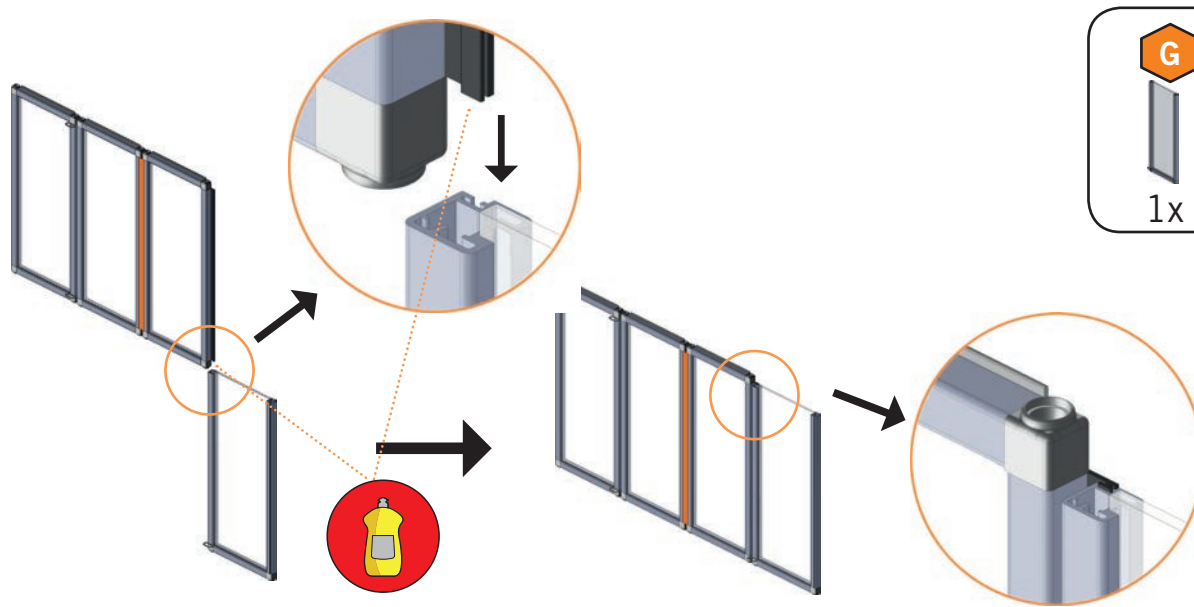
2.8



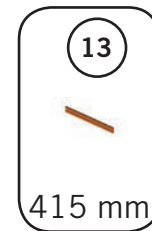
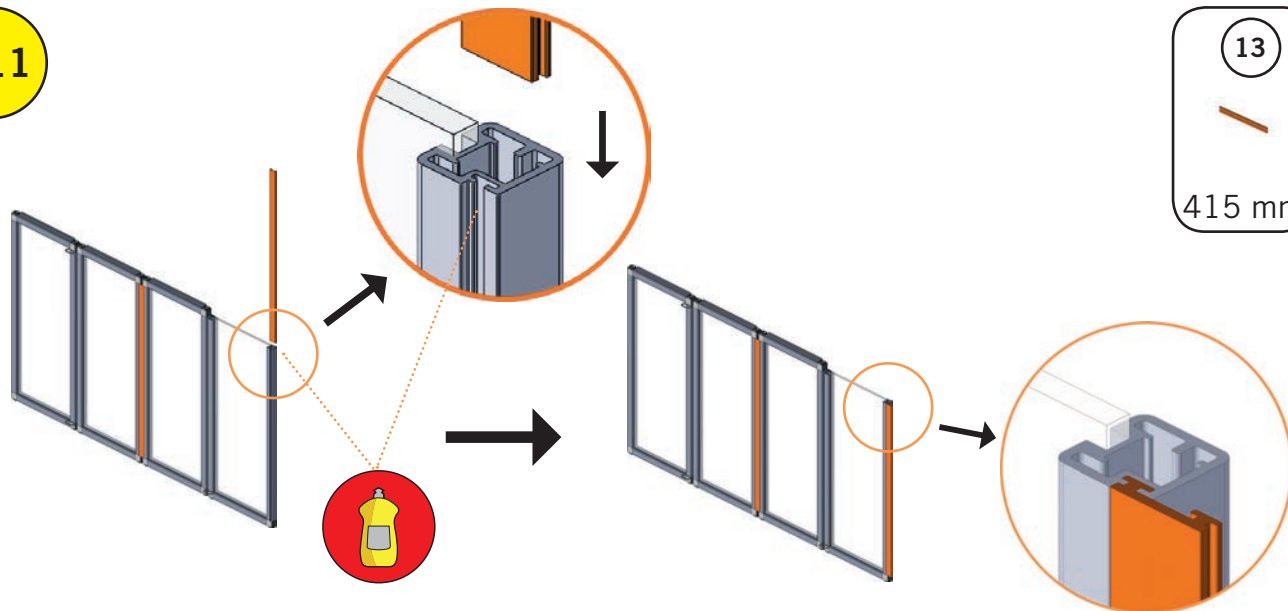
2.9



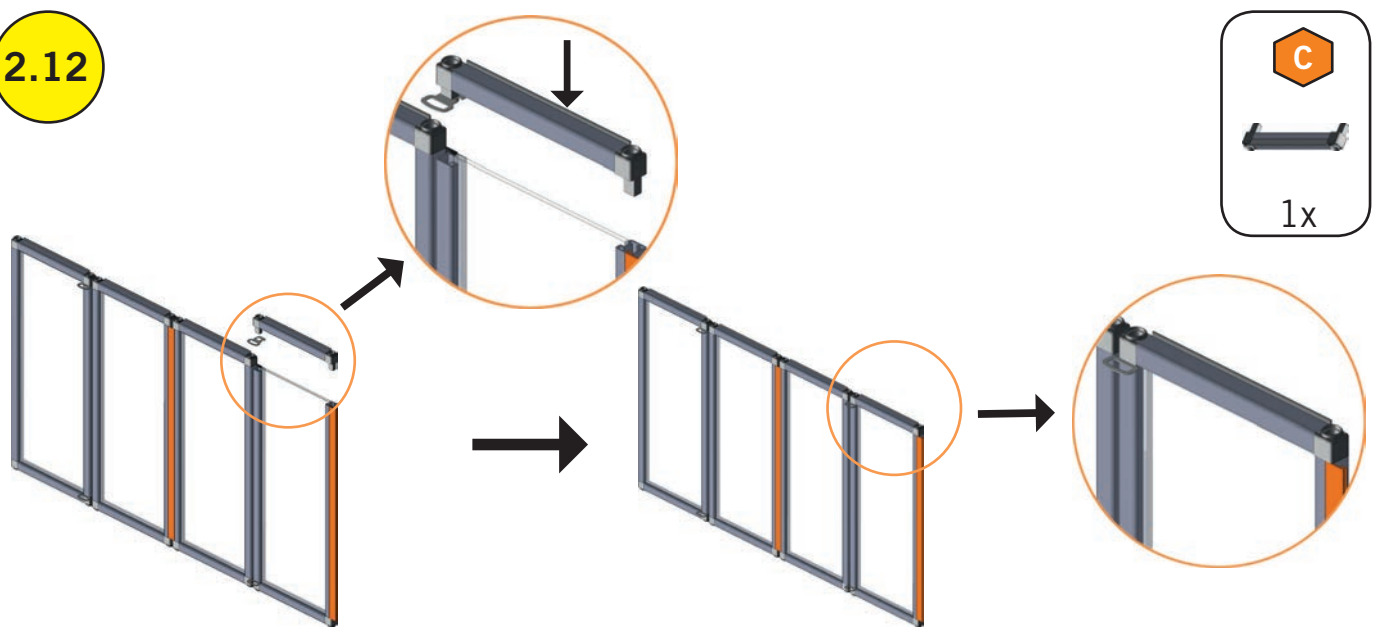
2.10



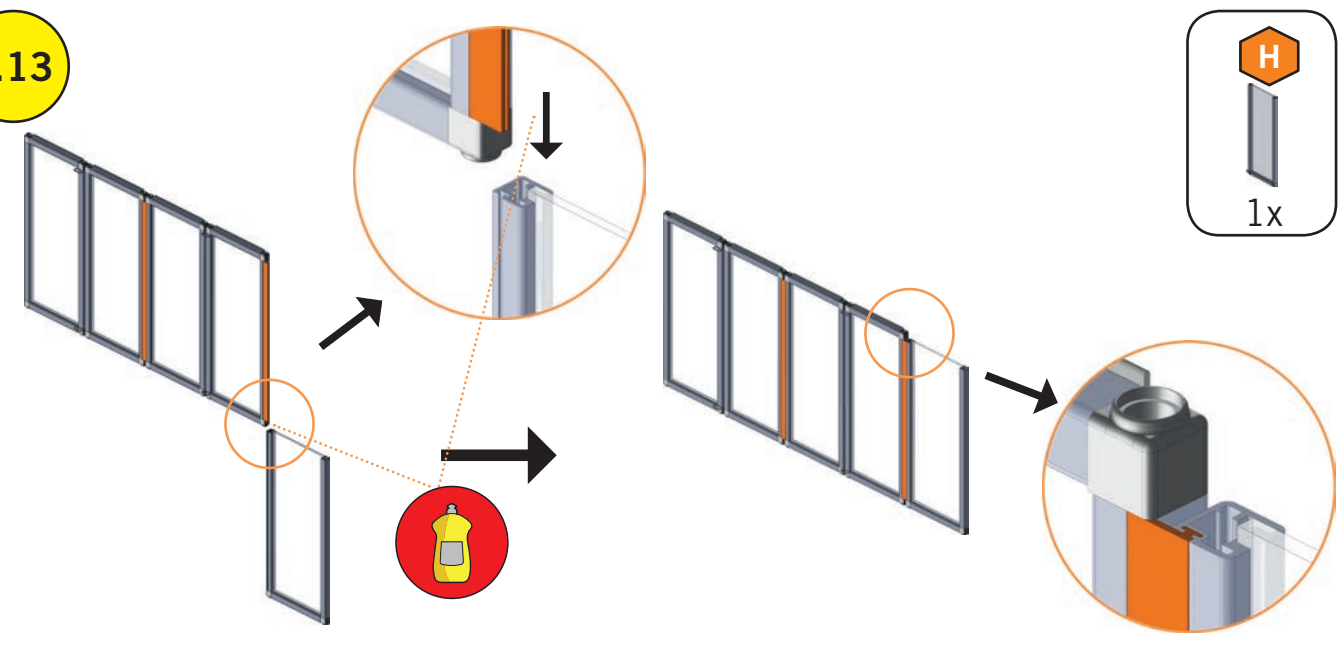
2.11



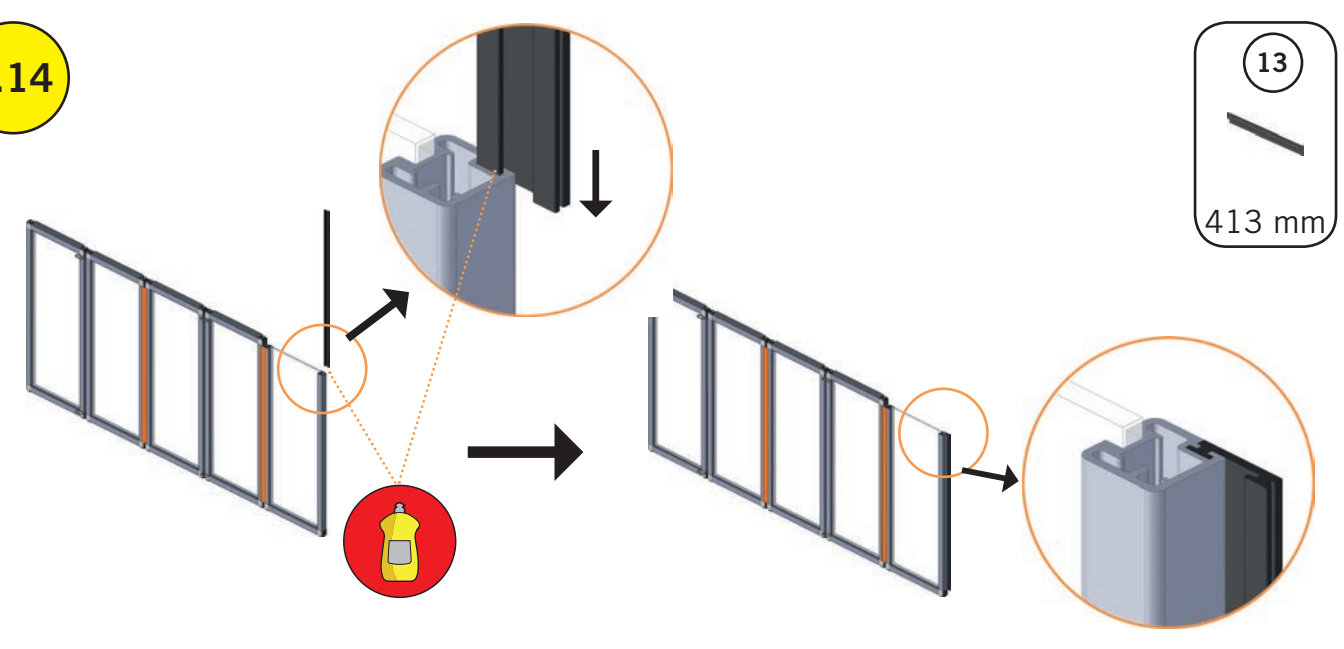
2.12



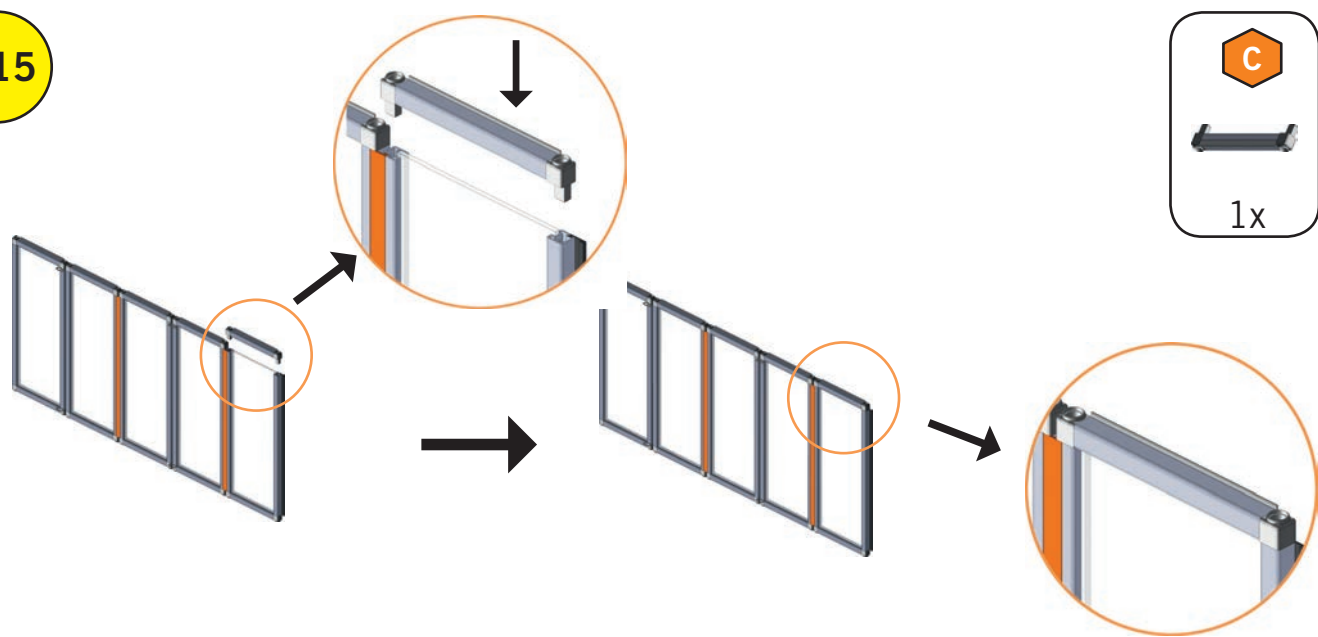
2.13



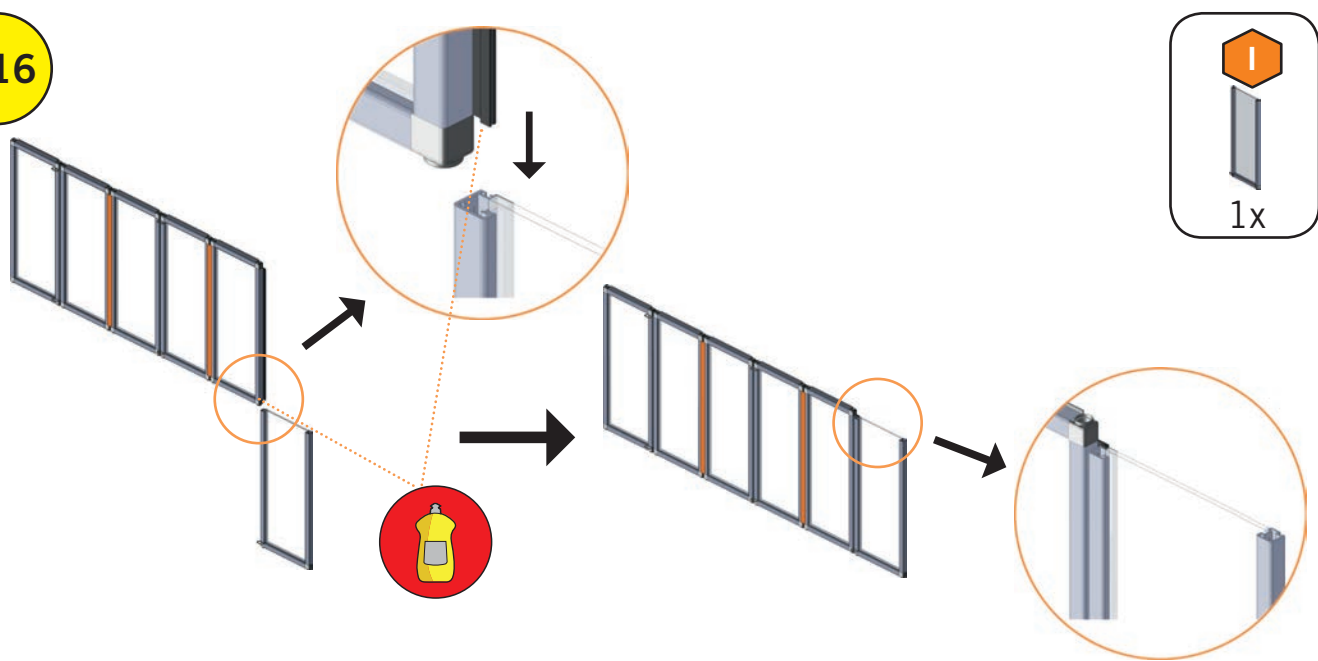
2.14



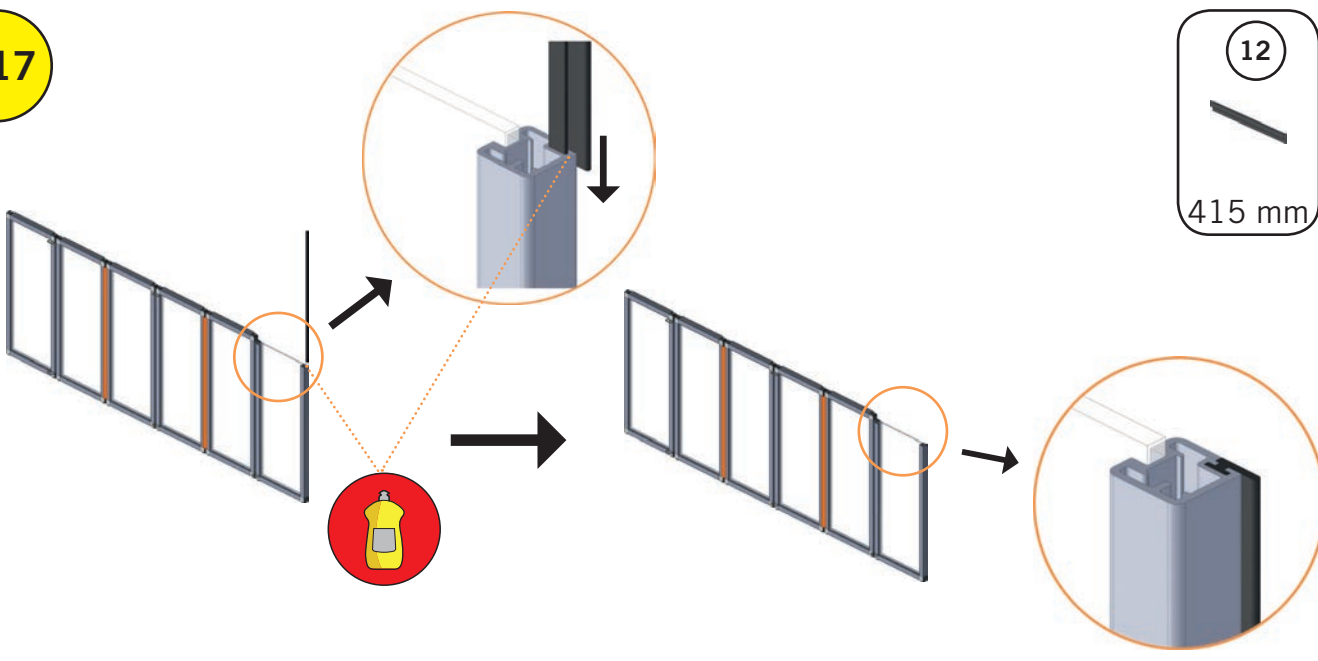
2.15



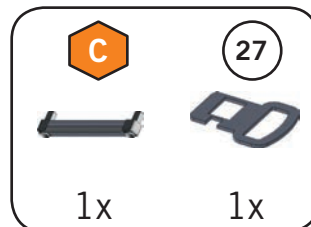
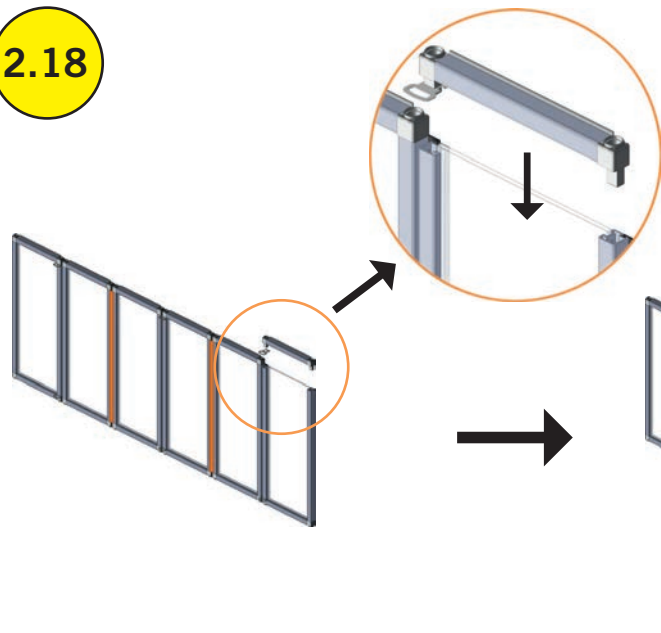
2.16



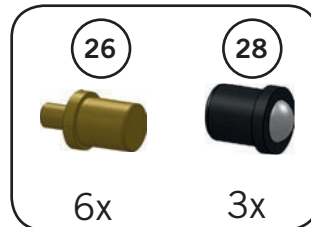
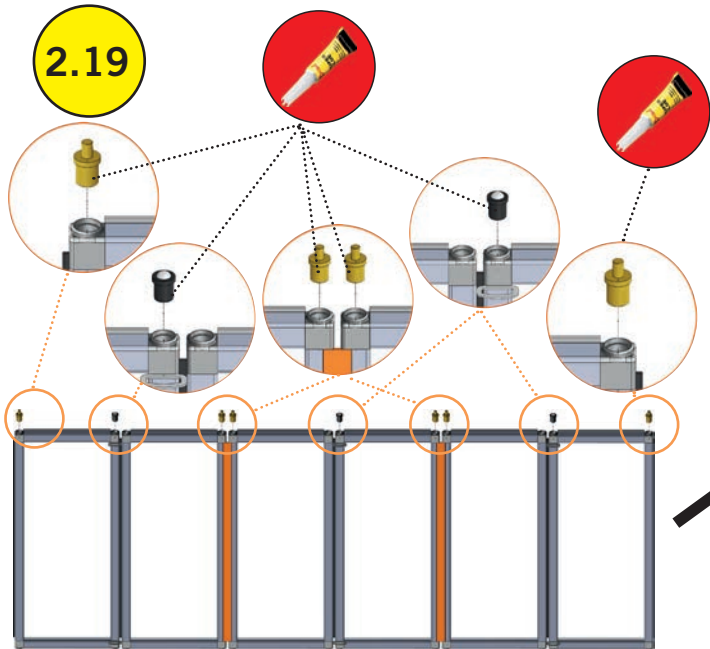
2.17



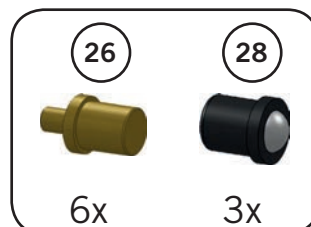
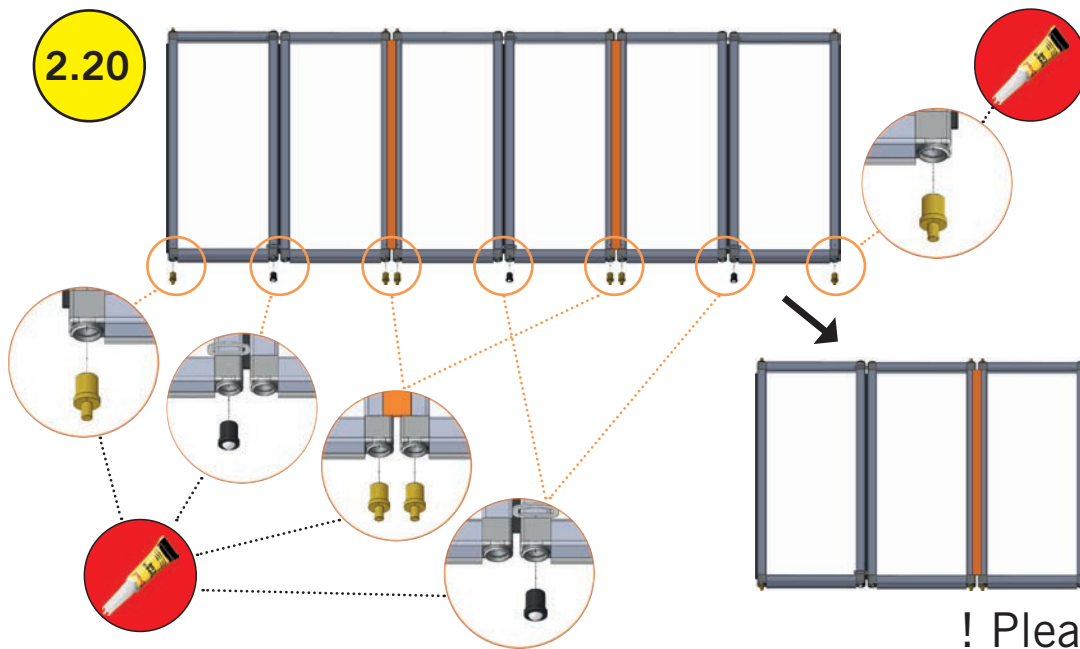
2.18



2.19



2.20



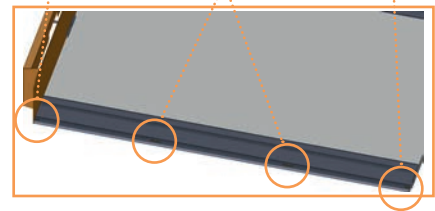
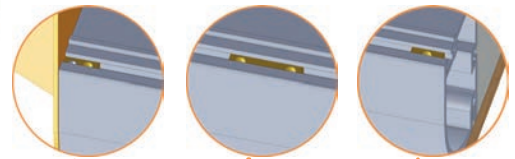
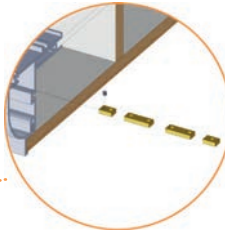
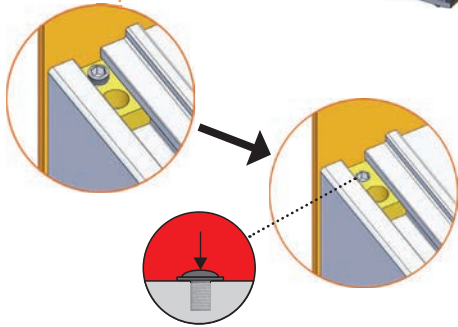
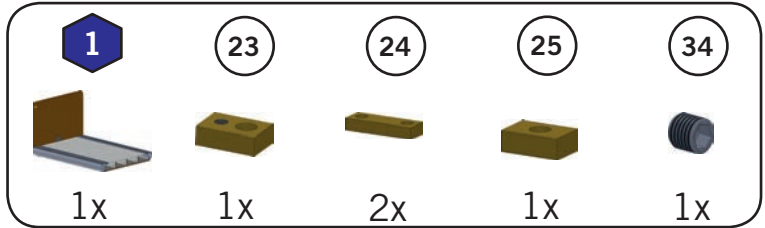
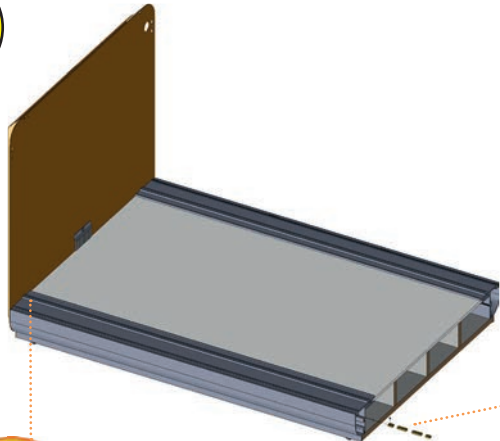
! Please produce 2x !

3

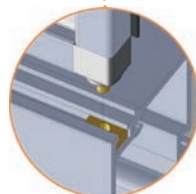
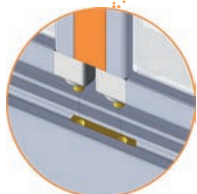
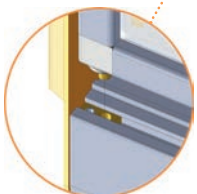
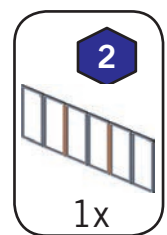
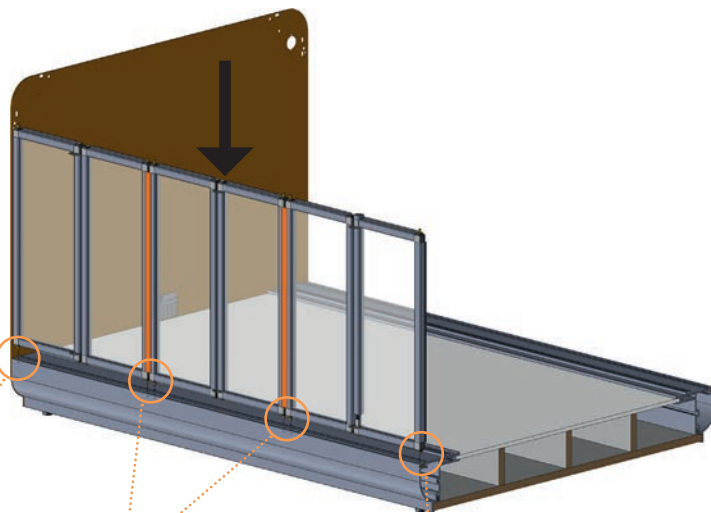


Upper frame

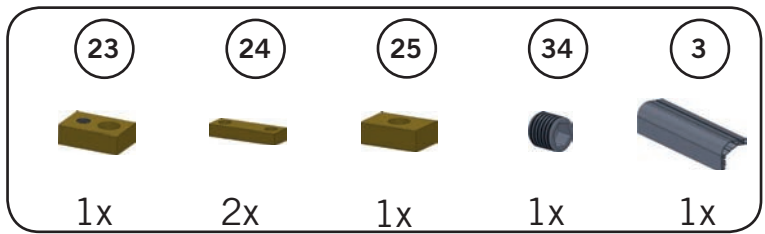
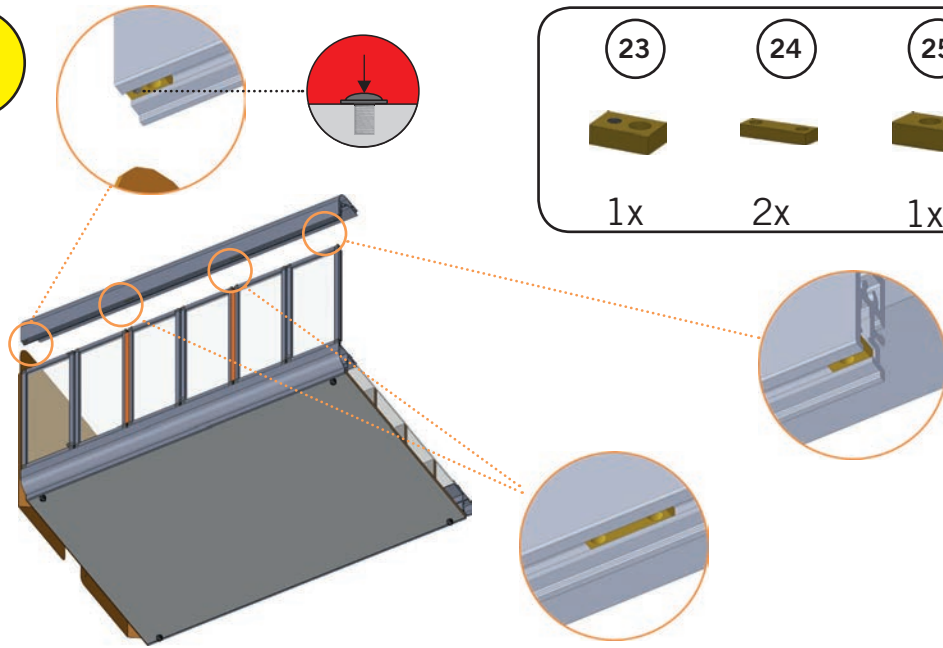
3.1



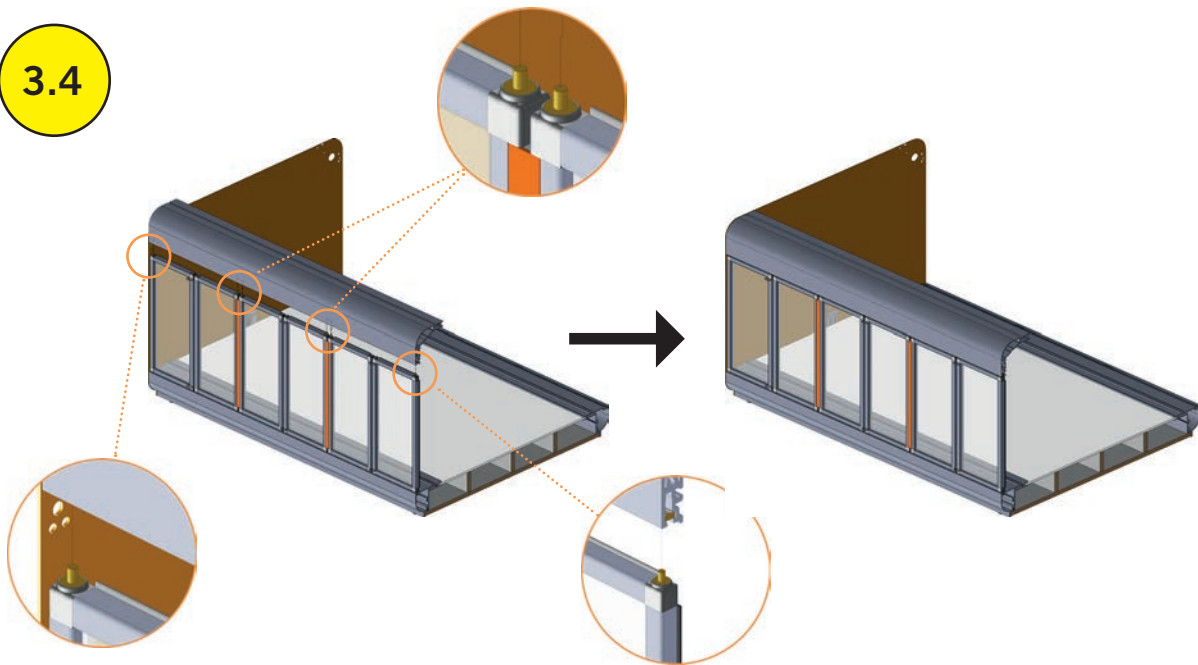
3.2



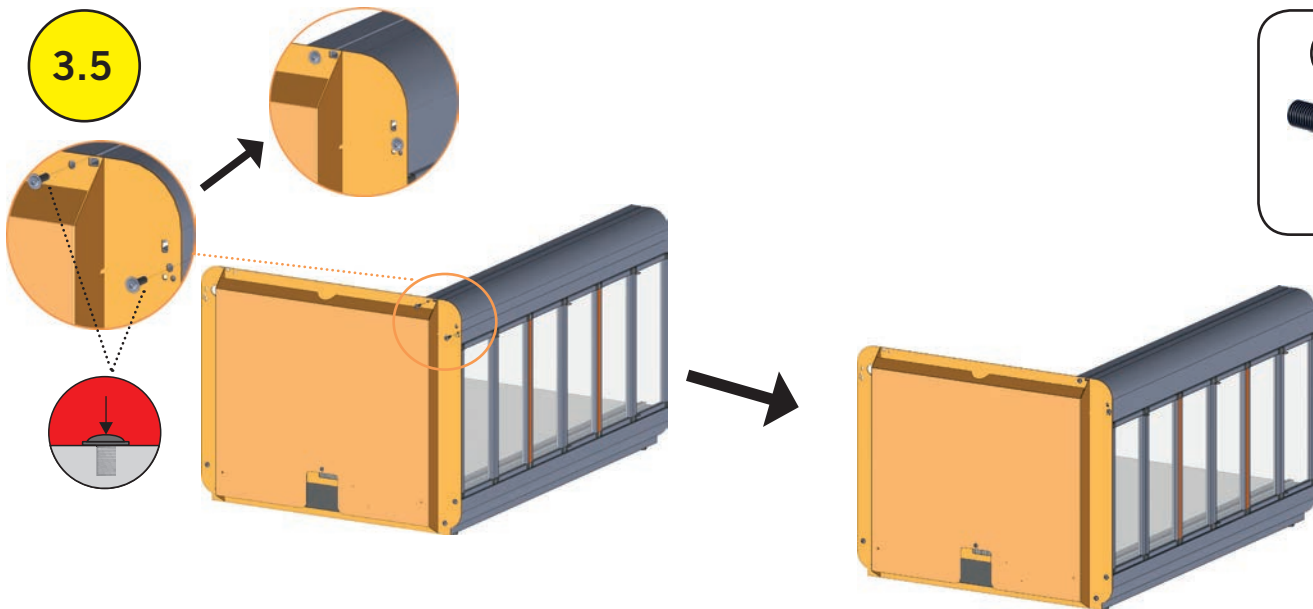
3.3



3.4

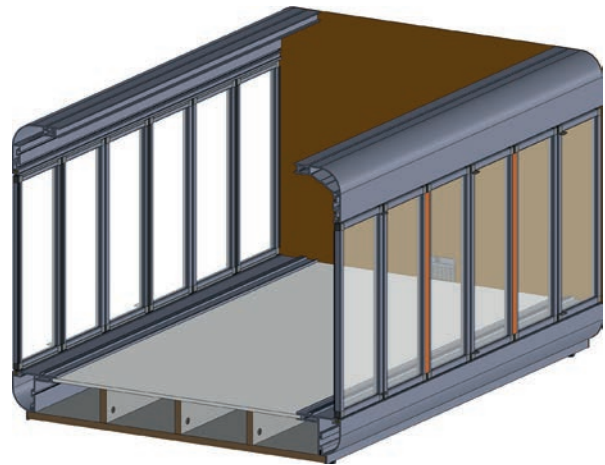


3.5

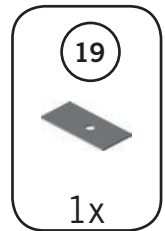
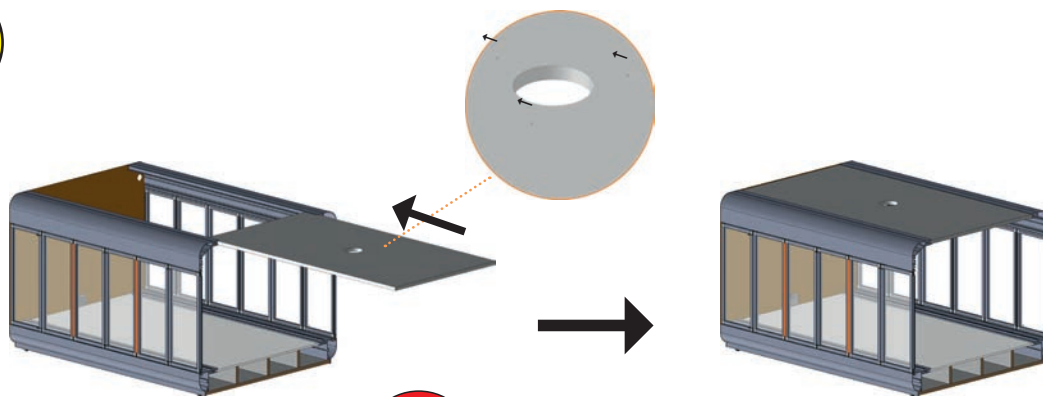


3.6

Please repeat worksteps 3.1 to 3.5 for the right of the enclosure in a mirror-inverted way!

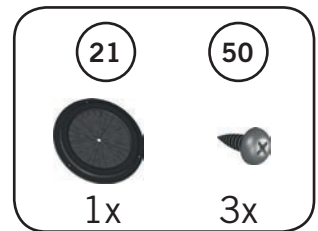
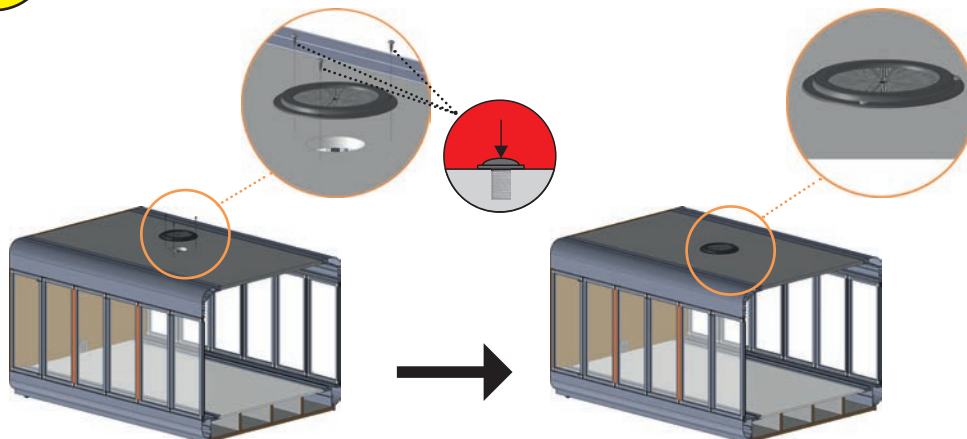


3.7

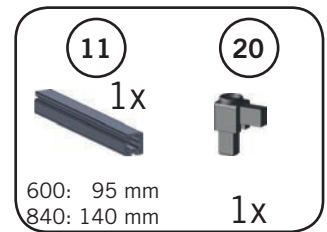
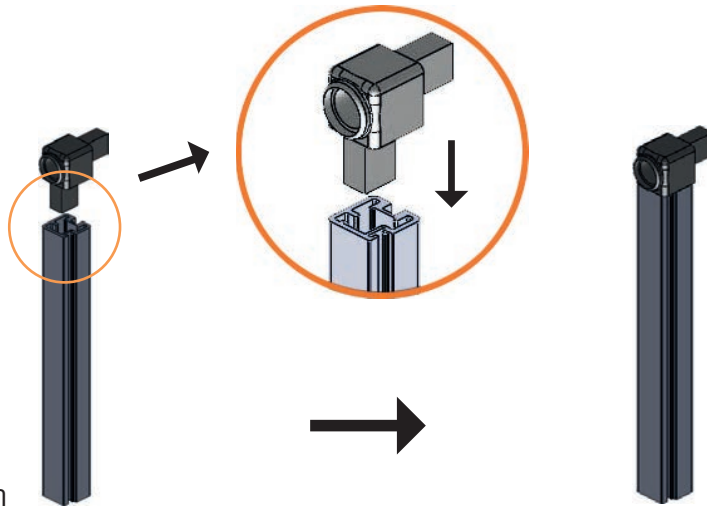


Please pay attention to the dimension of the top plate!

3.8



J

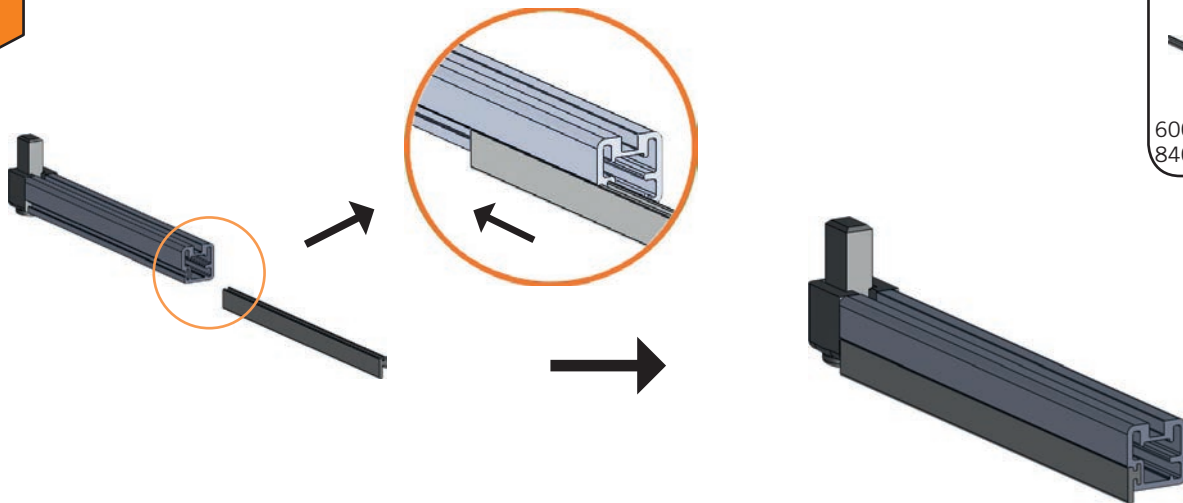


Please pay attention to the correct length!
95/ 140 mm !

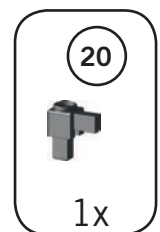
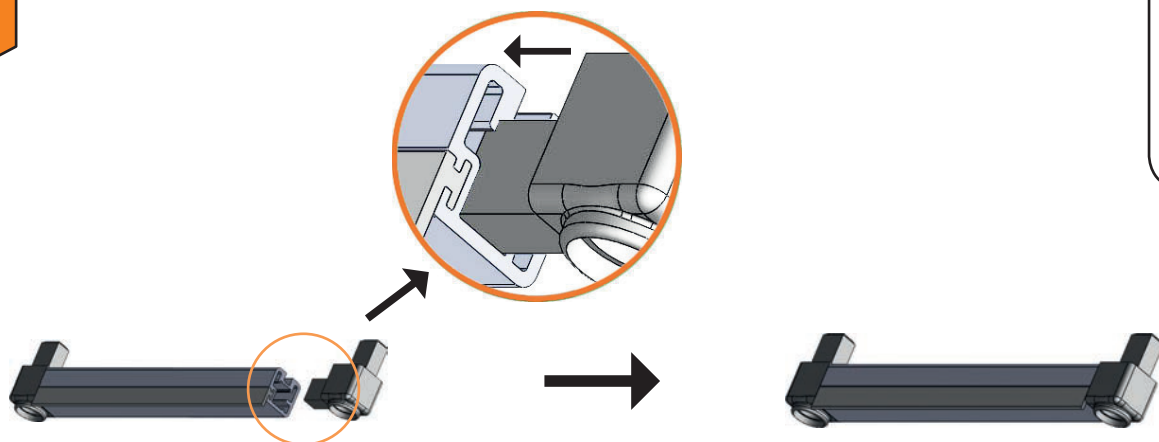


For an easier assembly of the plastic corners, please turn the profile and use the rubber mallet to fix it to the corner!

J1

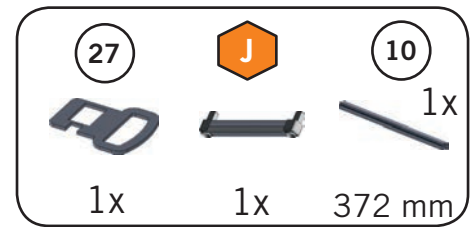


J2

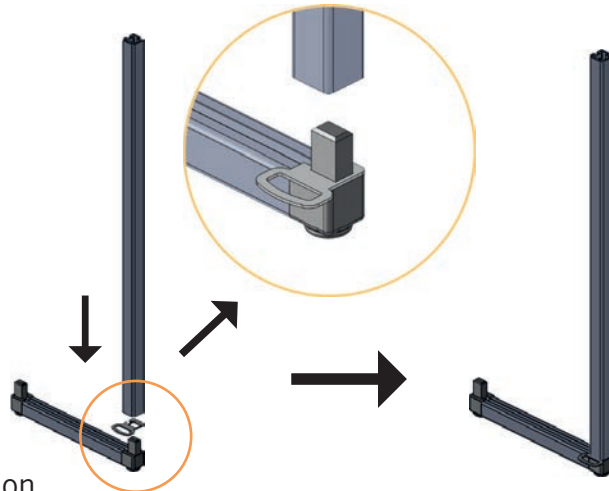


! Please produce 8x !

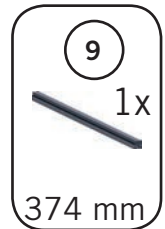
K



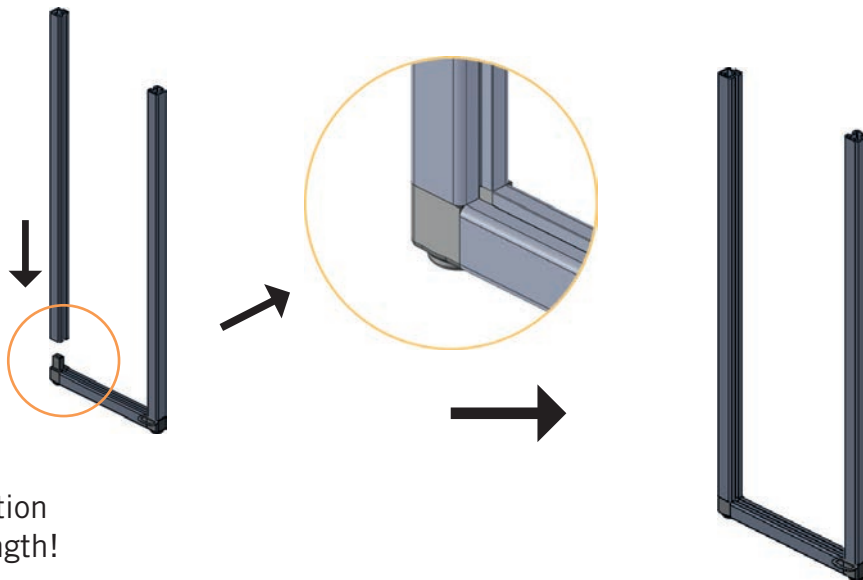
Please pay attention
to the correct length!
372 mm !



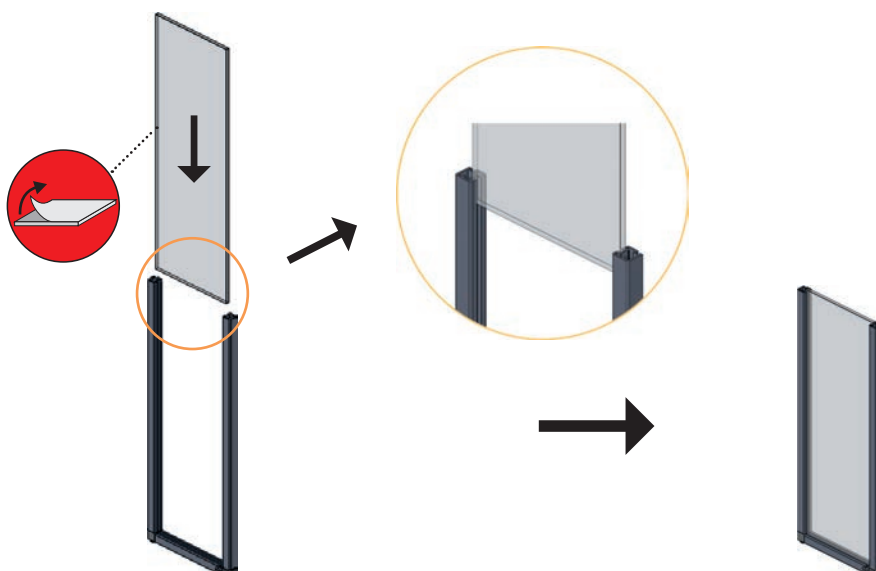
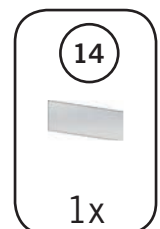
K1



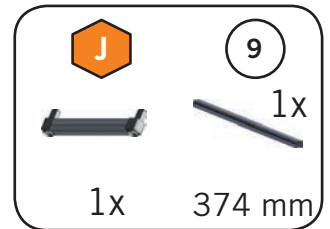
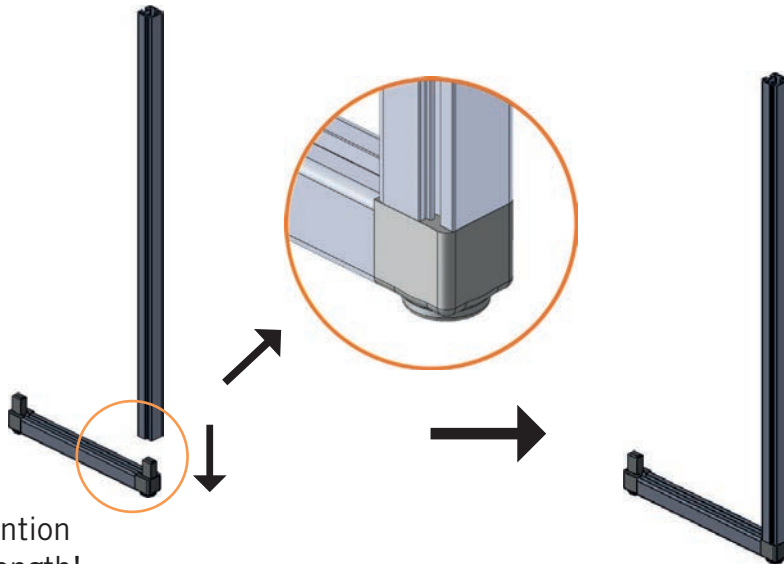
Please pay attention
to the correct length!
374 mm !



K2

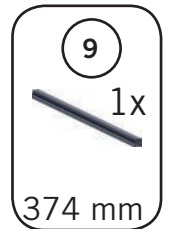
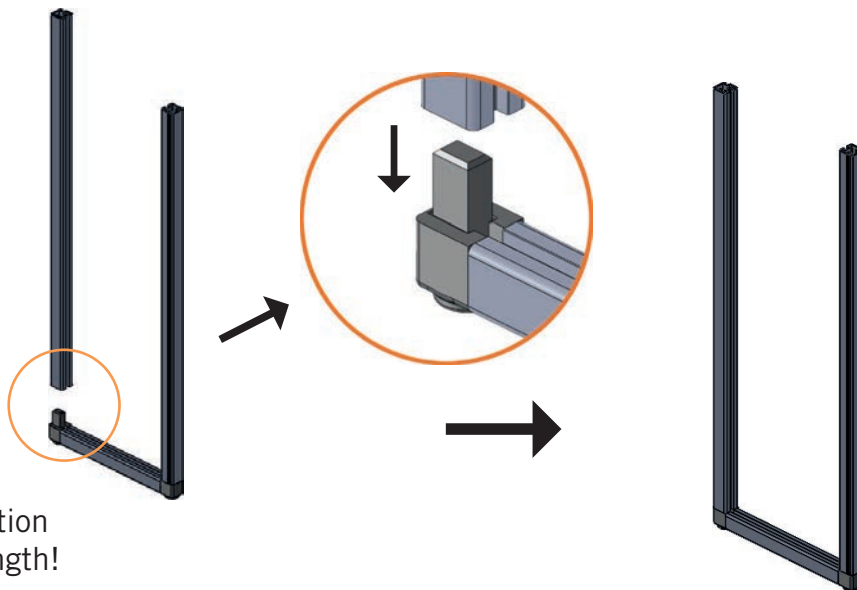


L



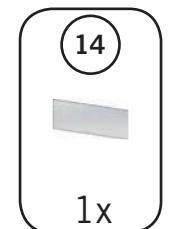
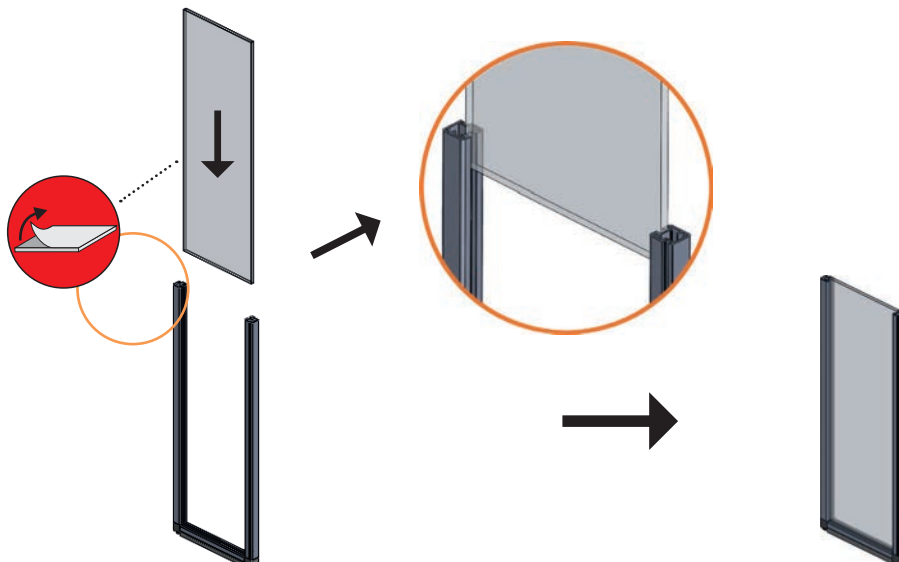
Please pay attention
to the correct length!
374 mm !

L1



Please pay attention
to the correct length!
374 mm !

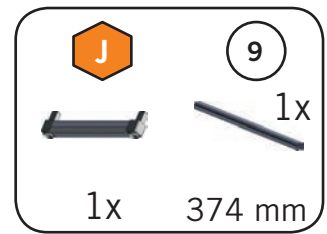
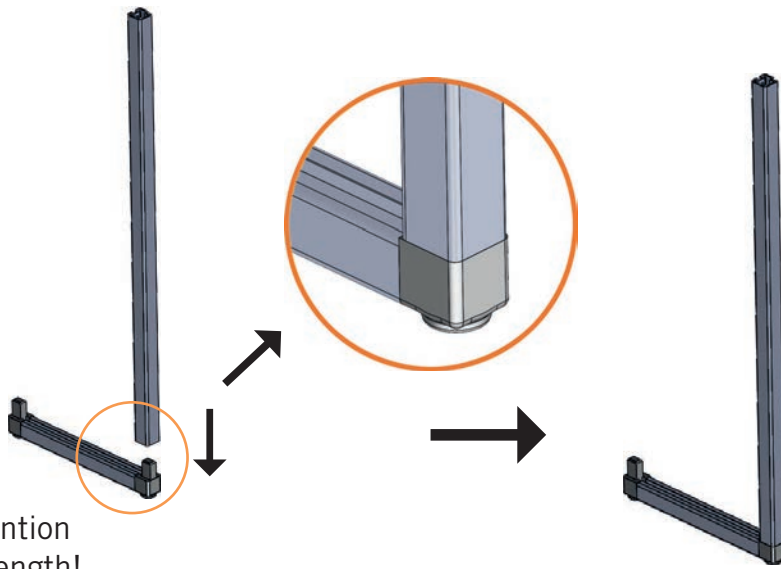
L2



M



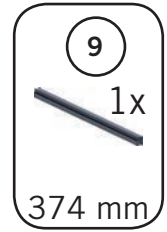
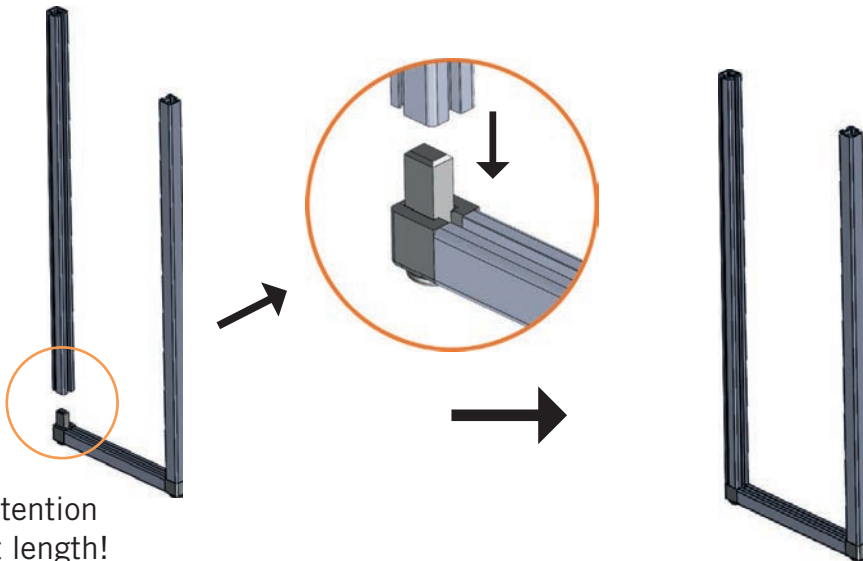
Please pay attention
to the correct length!
374 mm !



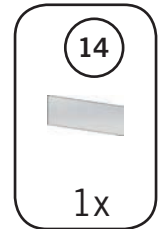
M1



Please pay attention
to the correct length!
374 mm !



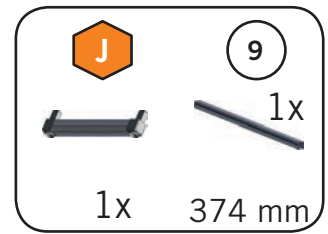
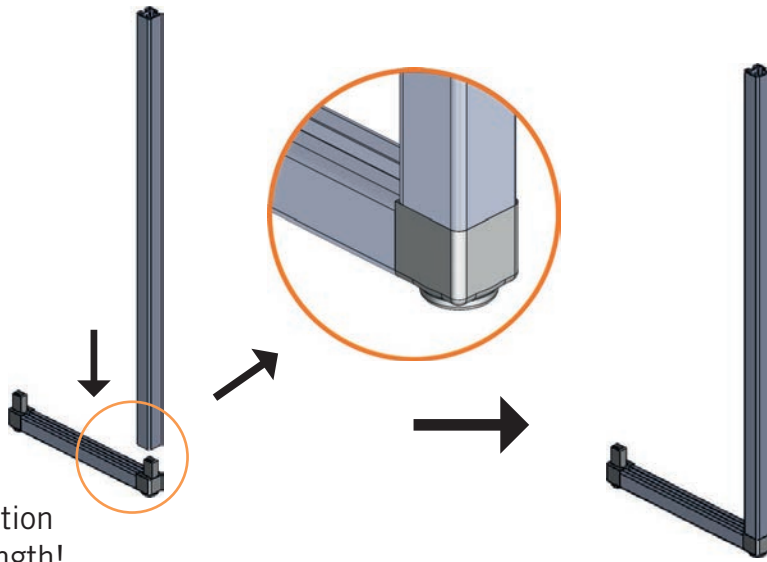
M2



N



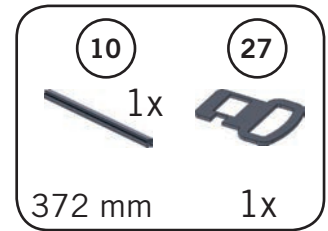
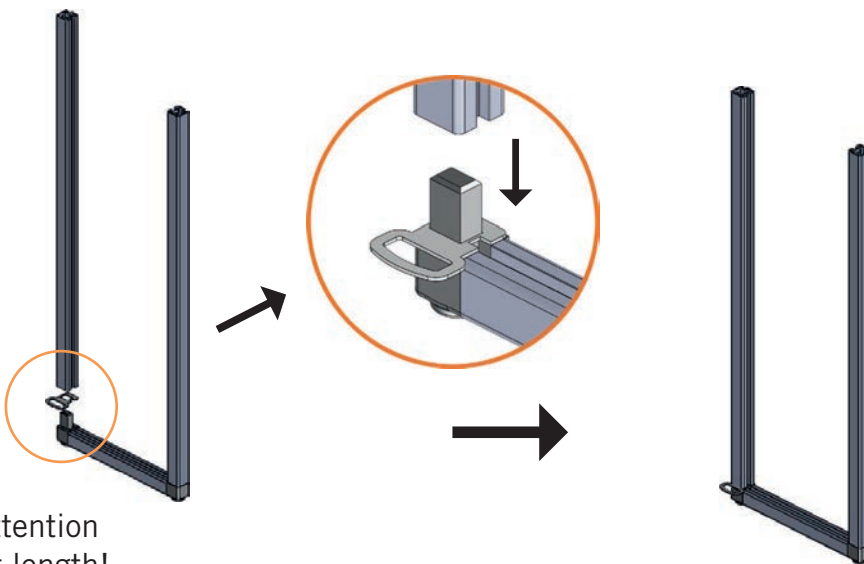
Please pay attention
to the correct length!
374 mm !



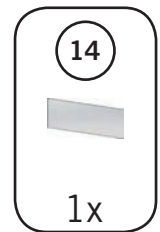
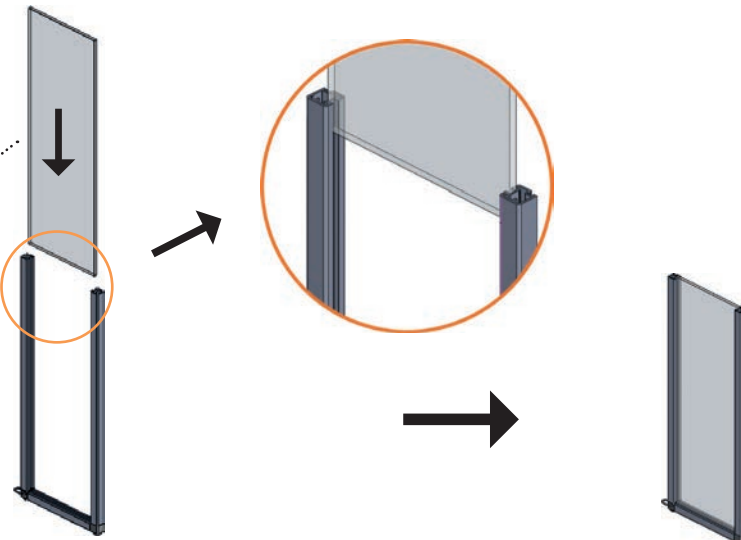
N1



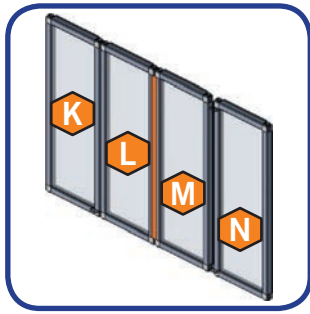
Please pay attention
to the correct length!
372 mm !



N2

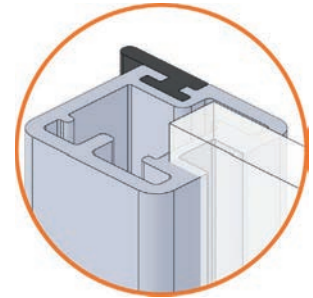
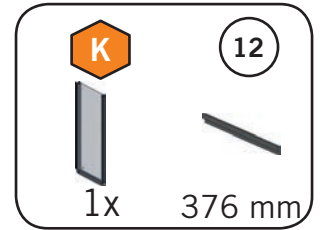
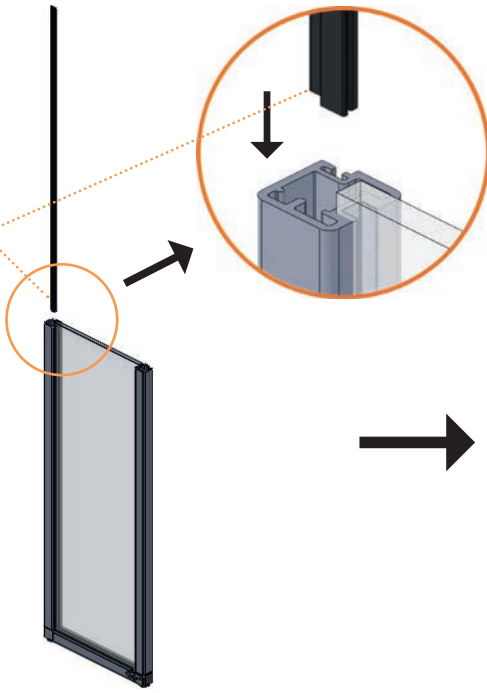


4

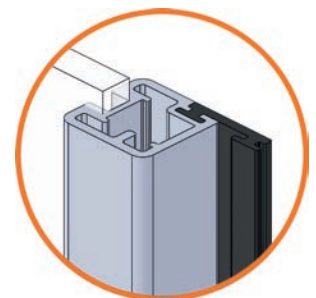
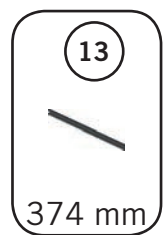
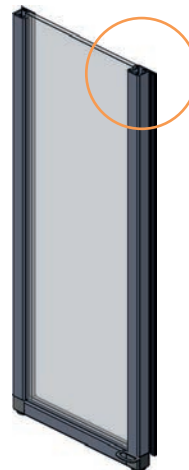
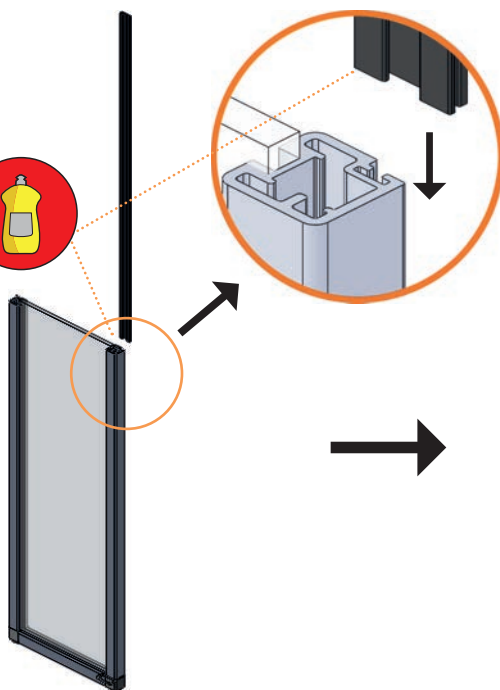


Front door

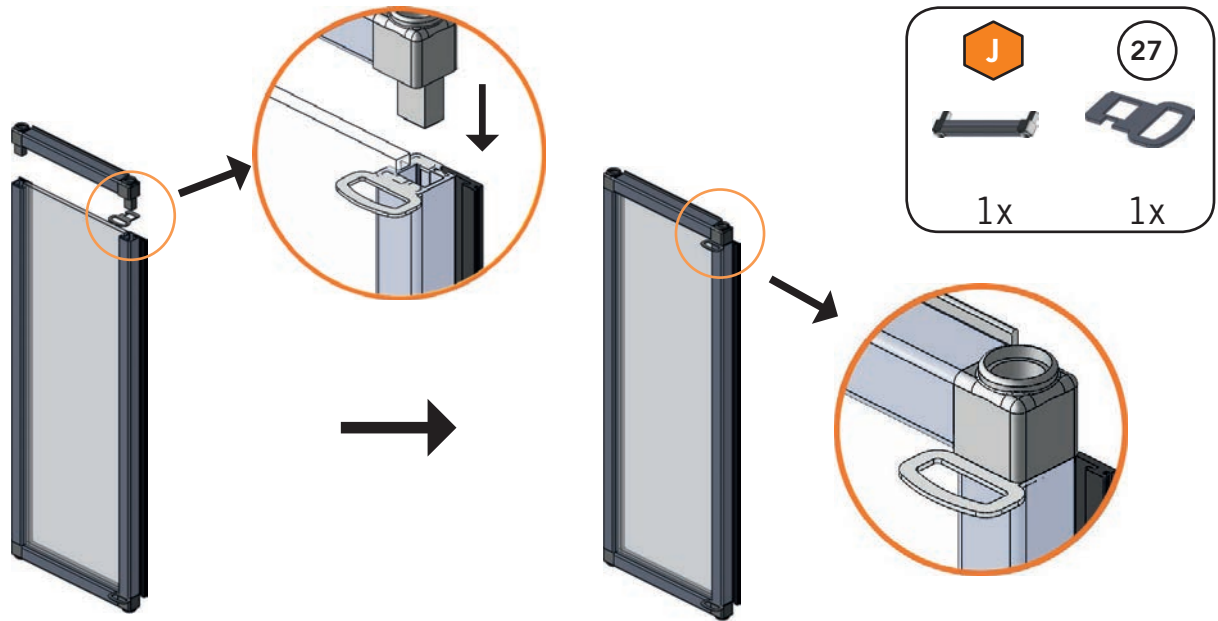
4.1



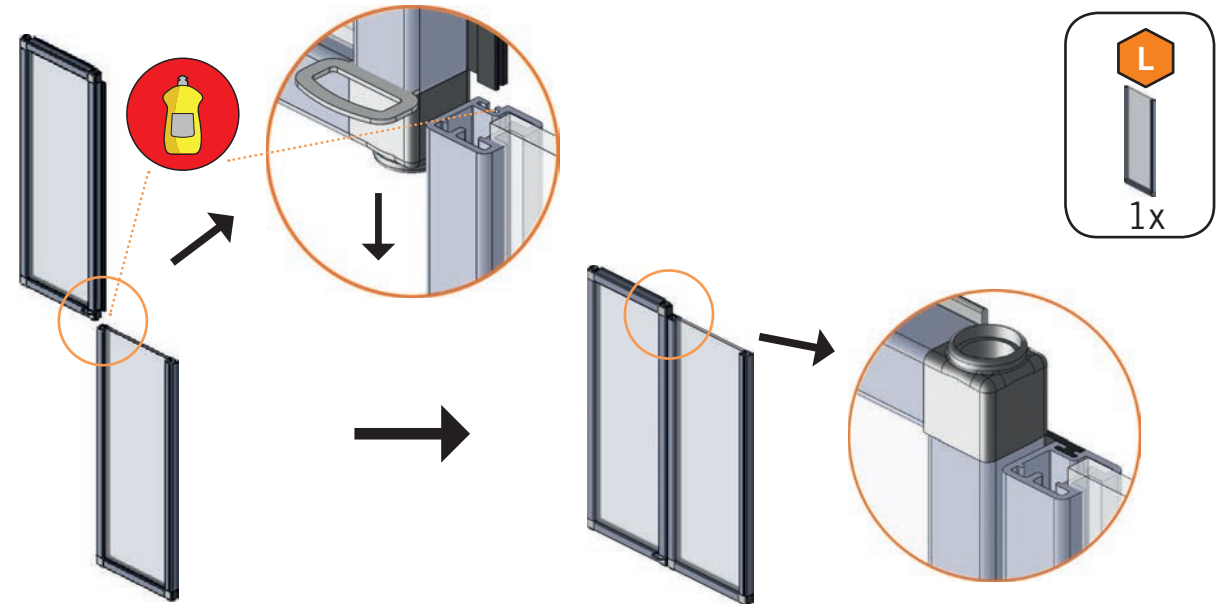
4.2



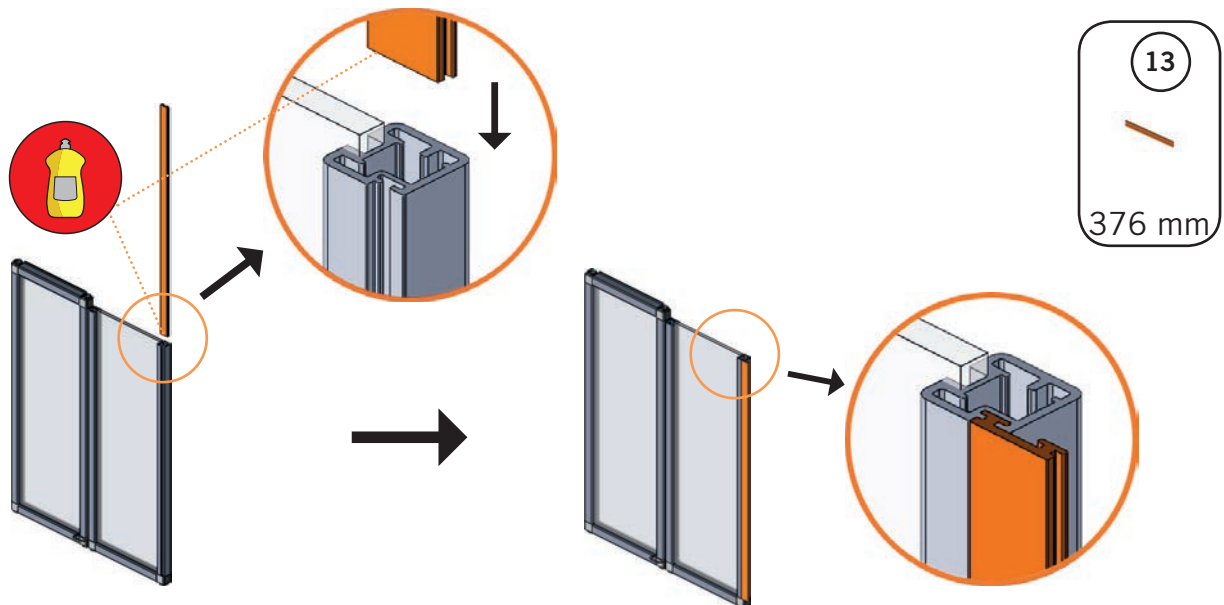
4.3



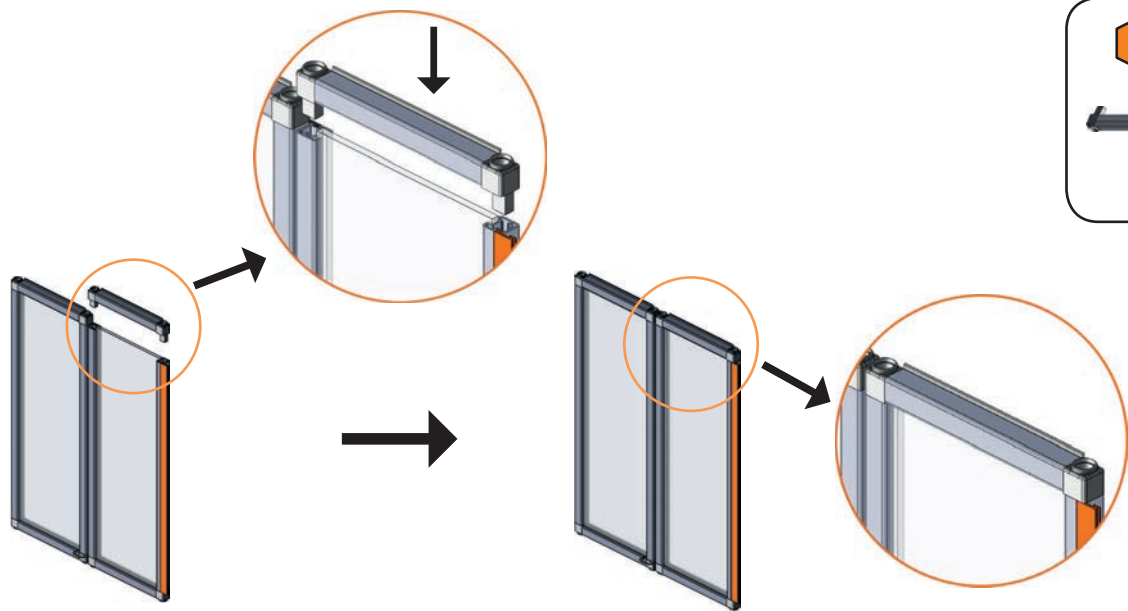
4.4



4.5

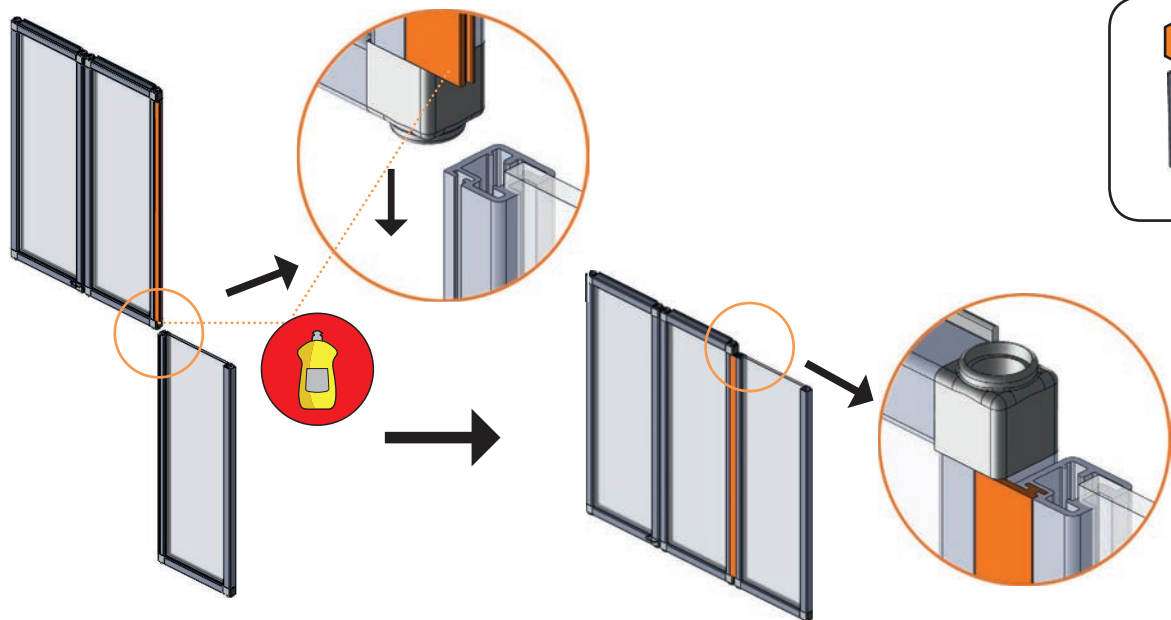


4.6



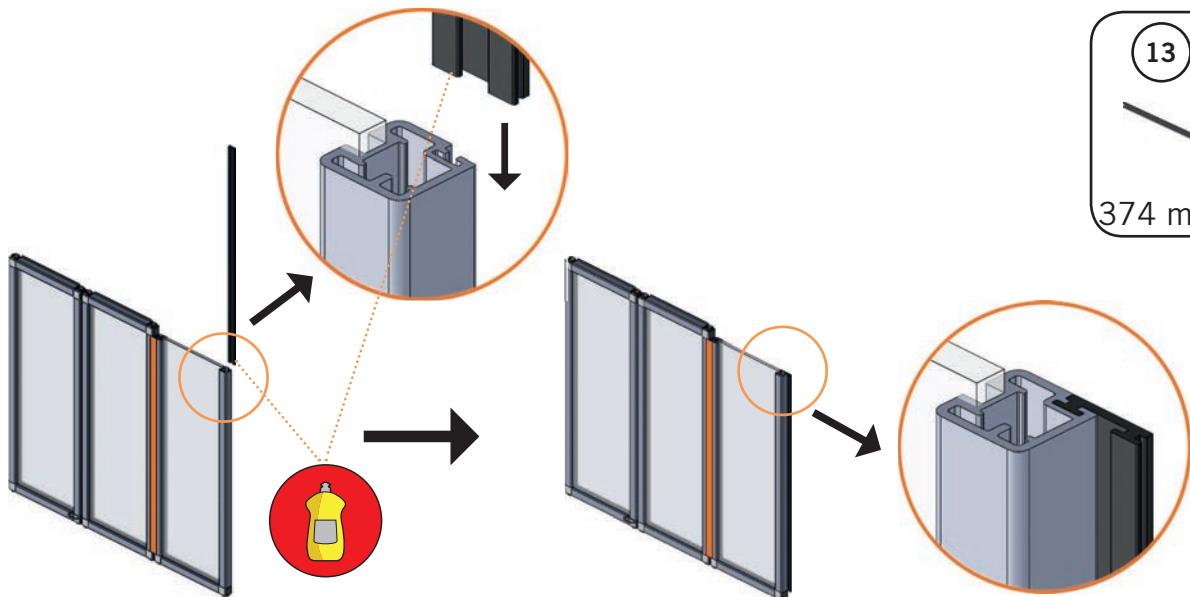
J
1x

4.7



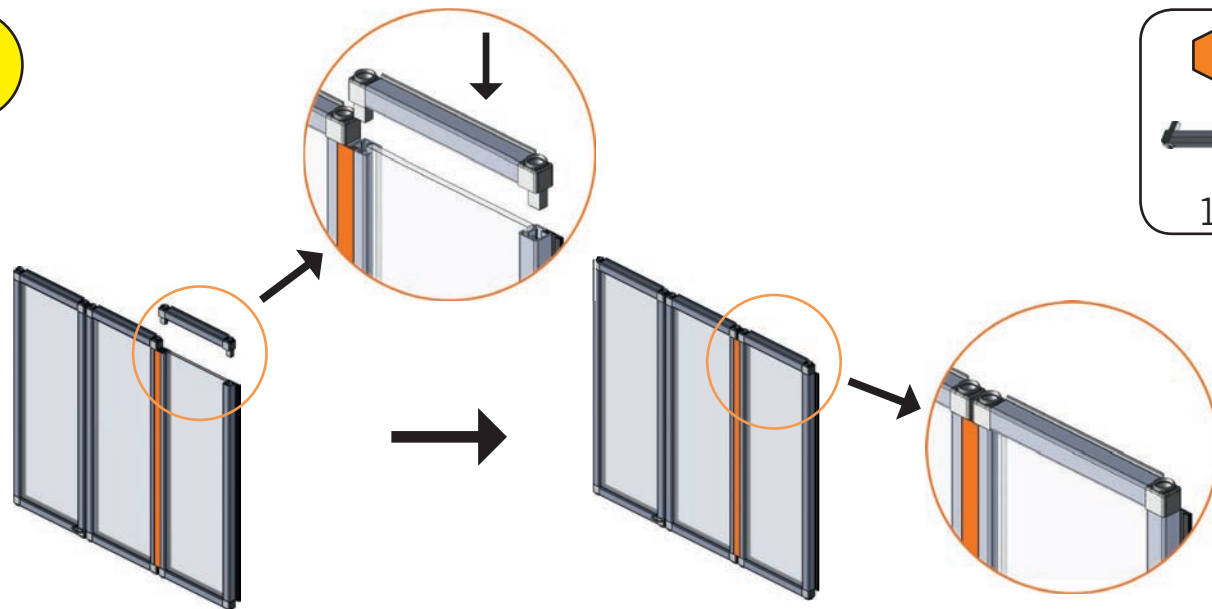
M
1x

4.8



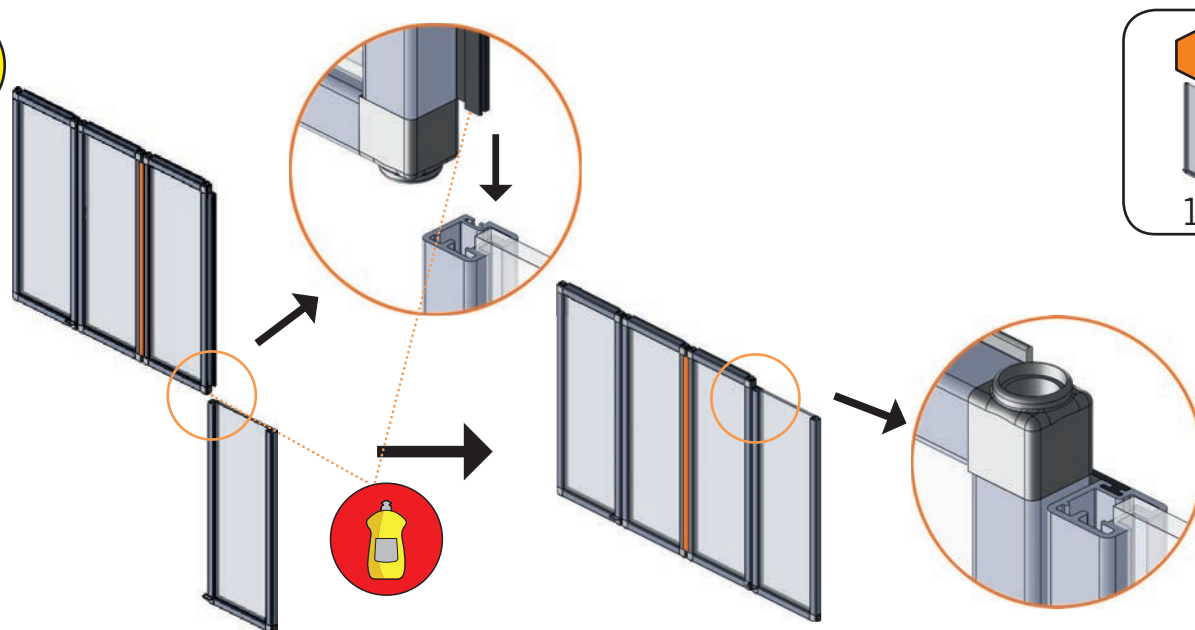
13
374 mm

4.9



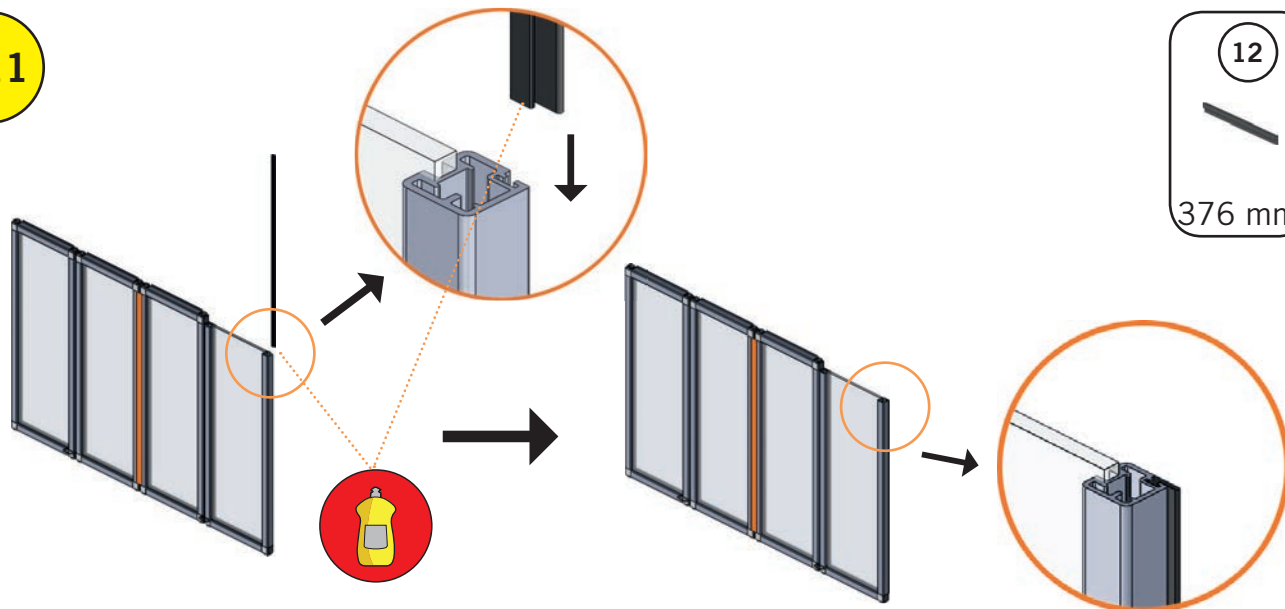
J
1x

4.10



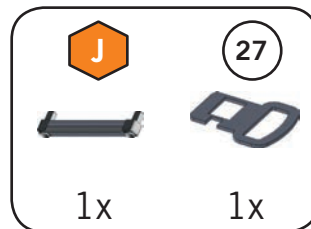
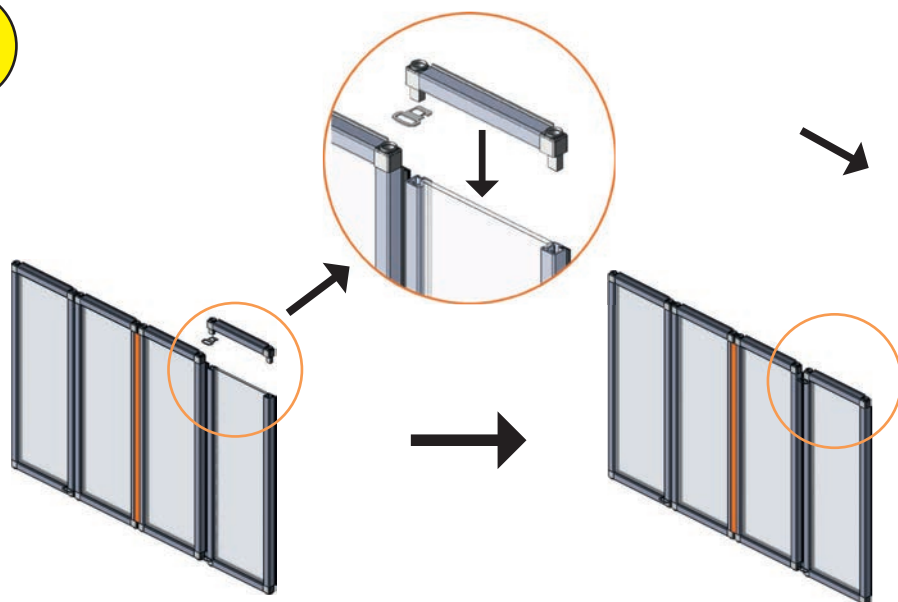
N
1x

4.11

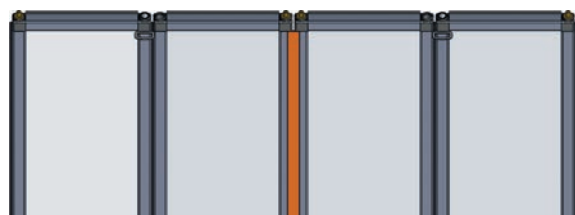
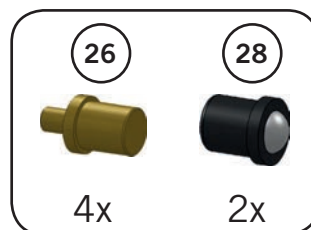
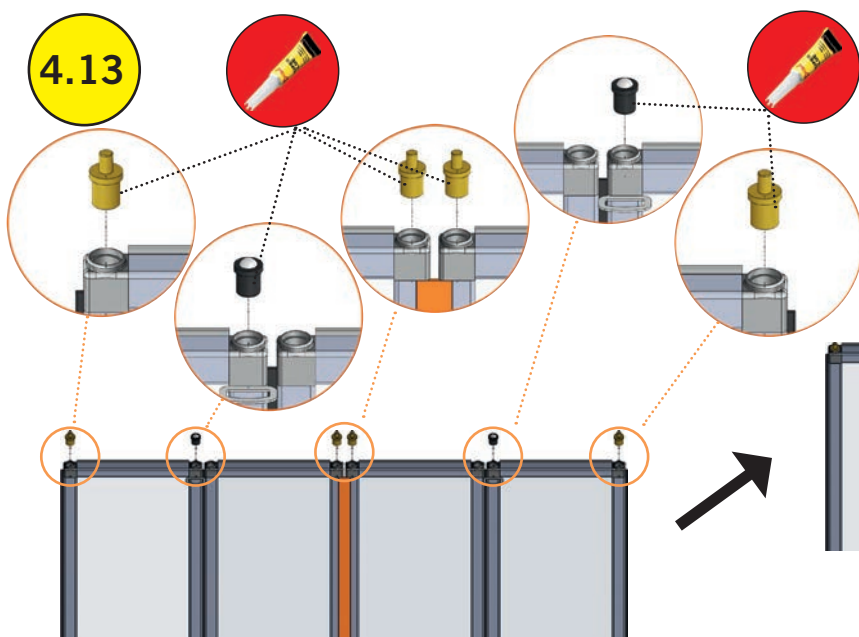


12
376 mm

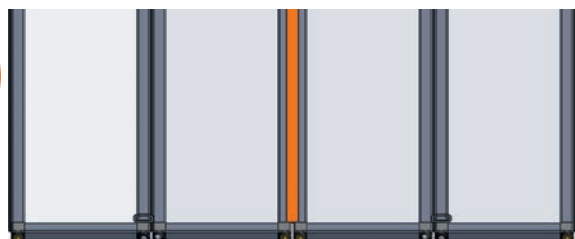
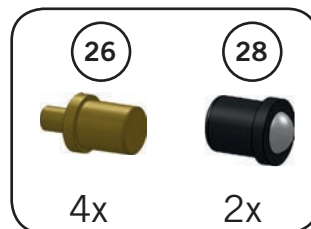
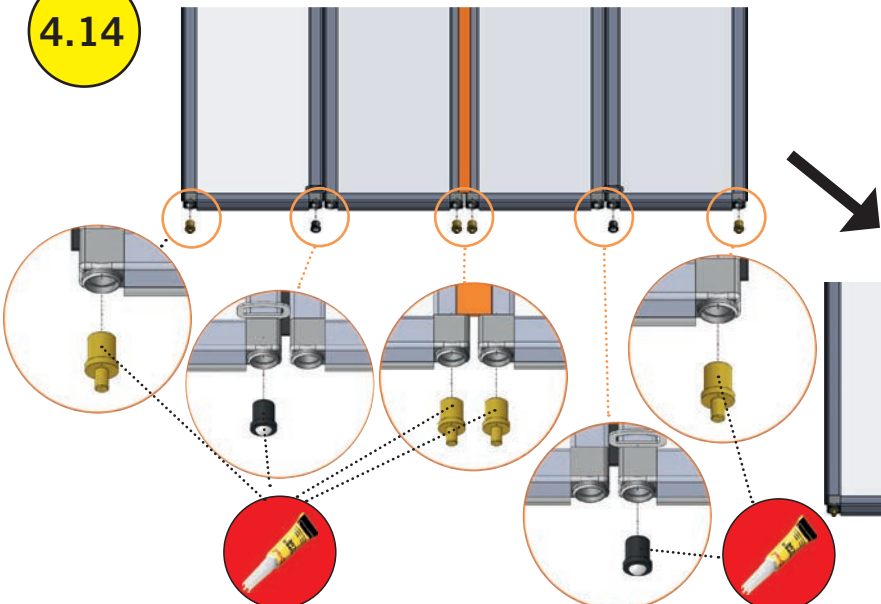
4.12



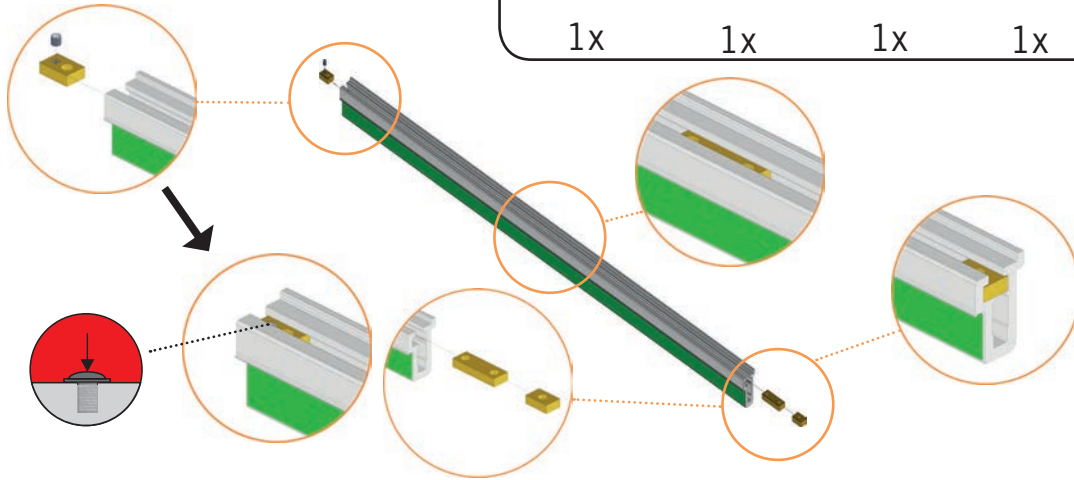
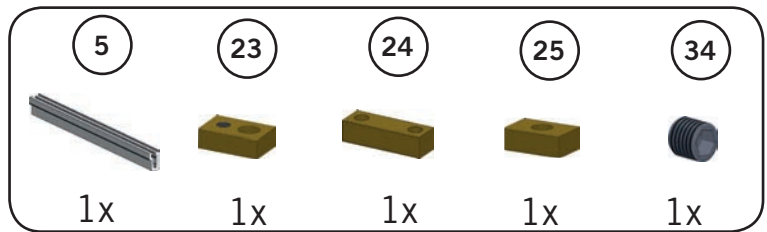
4.13



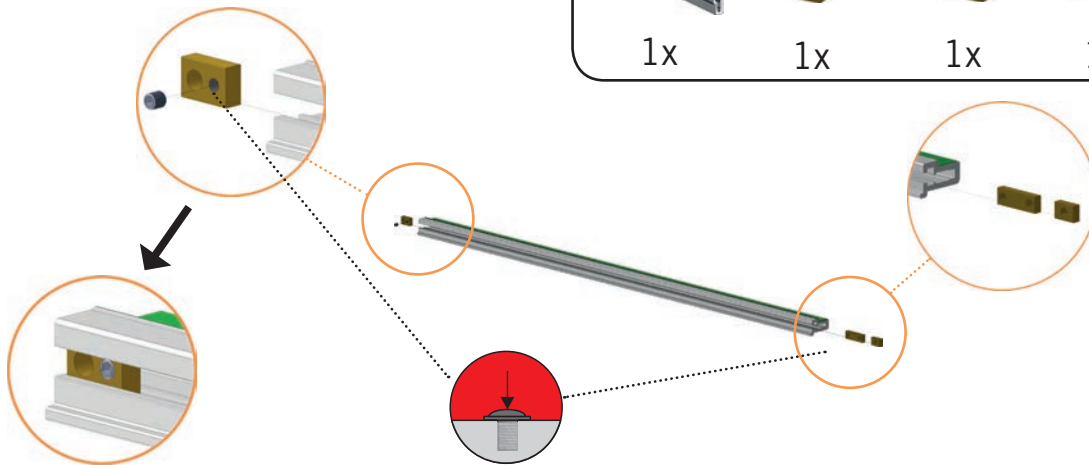
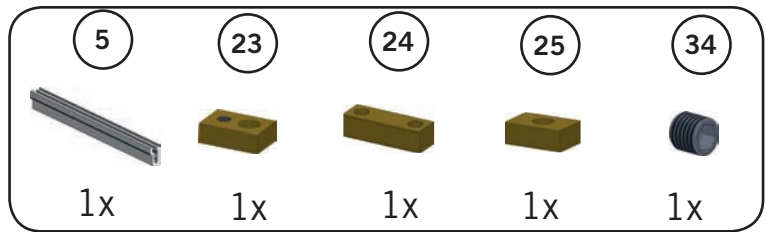
4.14



O



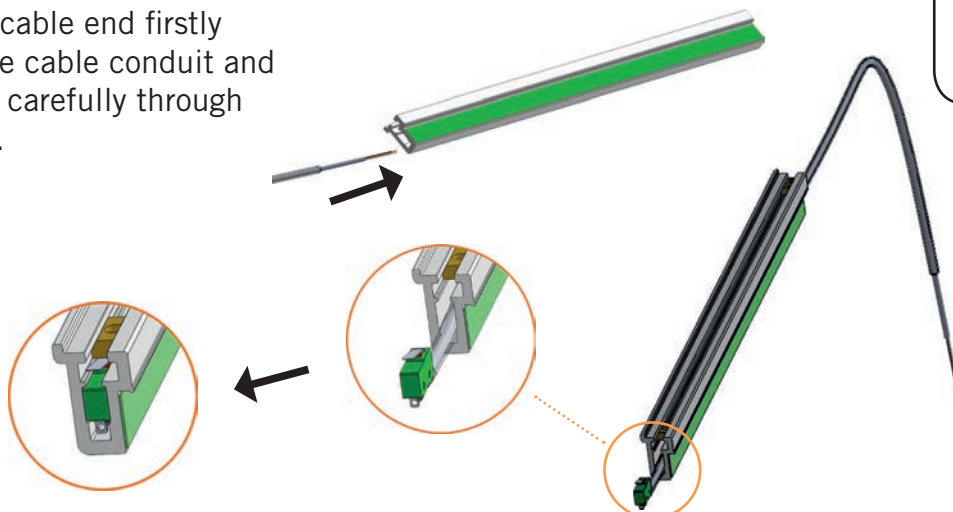
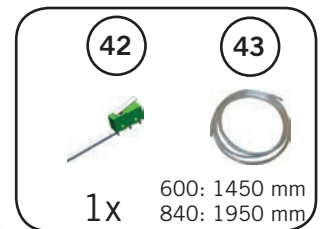
P



P1



Guide the cable end firstly through the cable conduit and afterwards carefully through the profile.

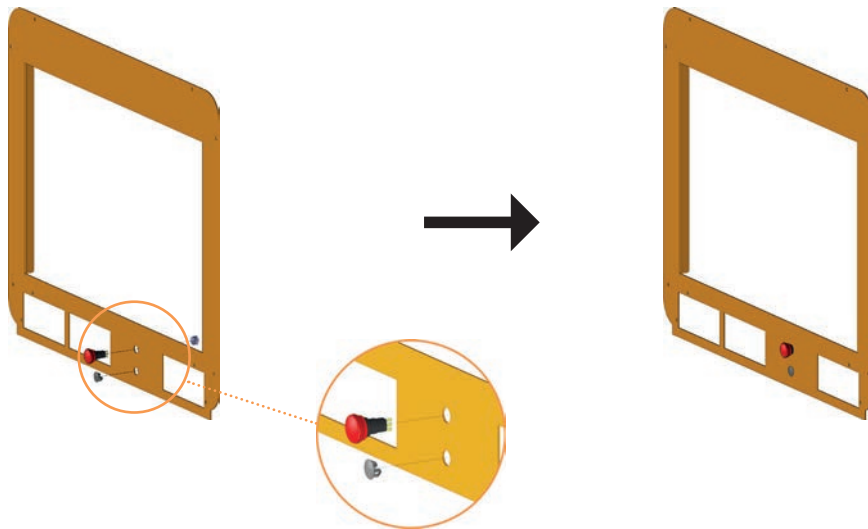
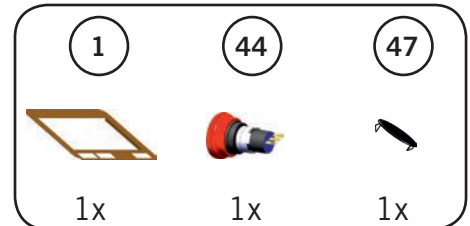


5

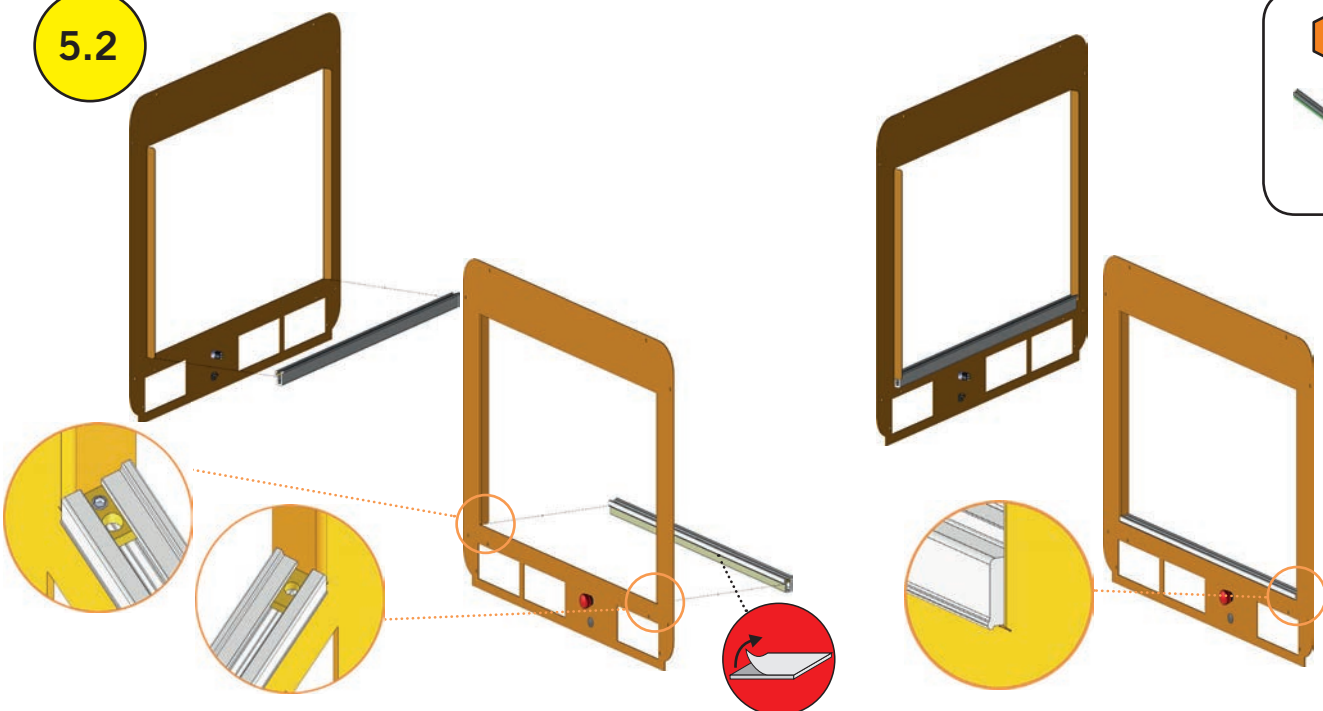
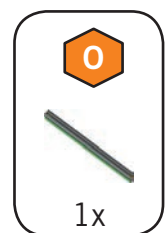


Enclosure front

5.1

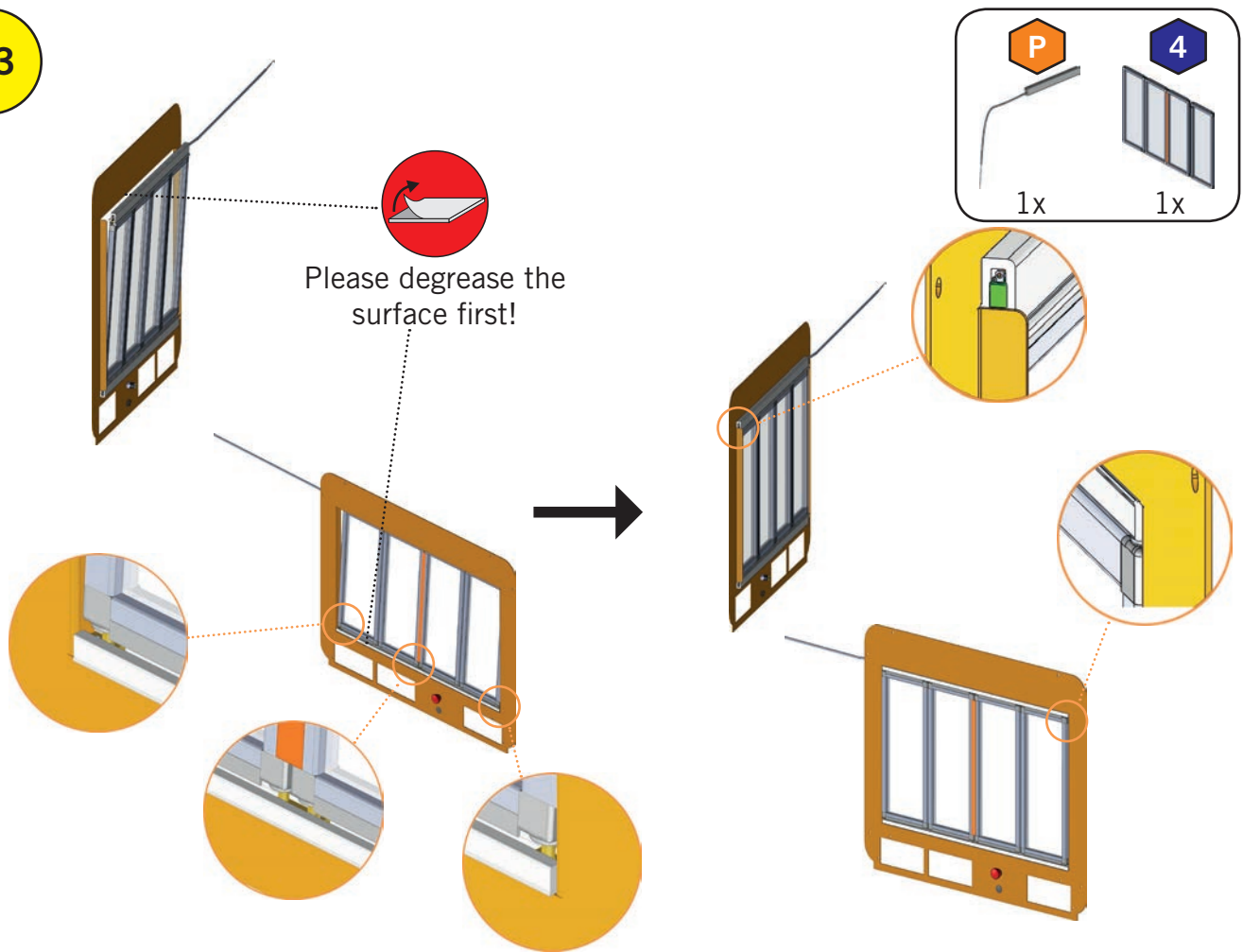


5.2

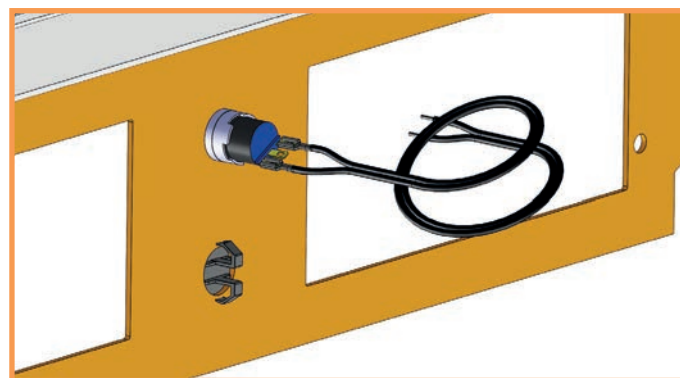
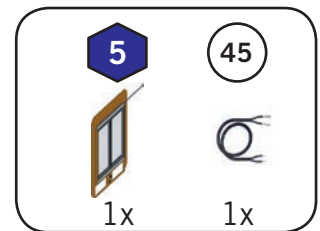


Please degrease the surface first!

5.3



5.4

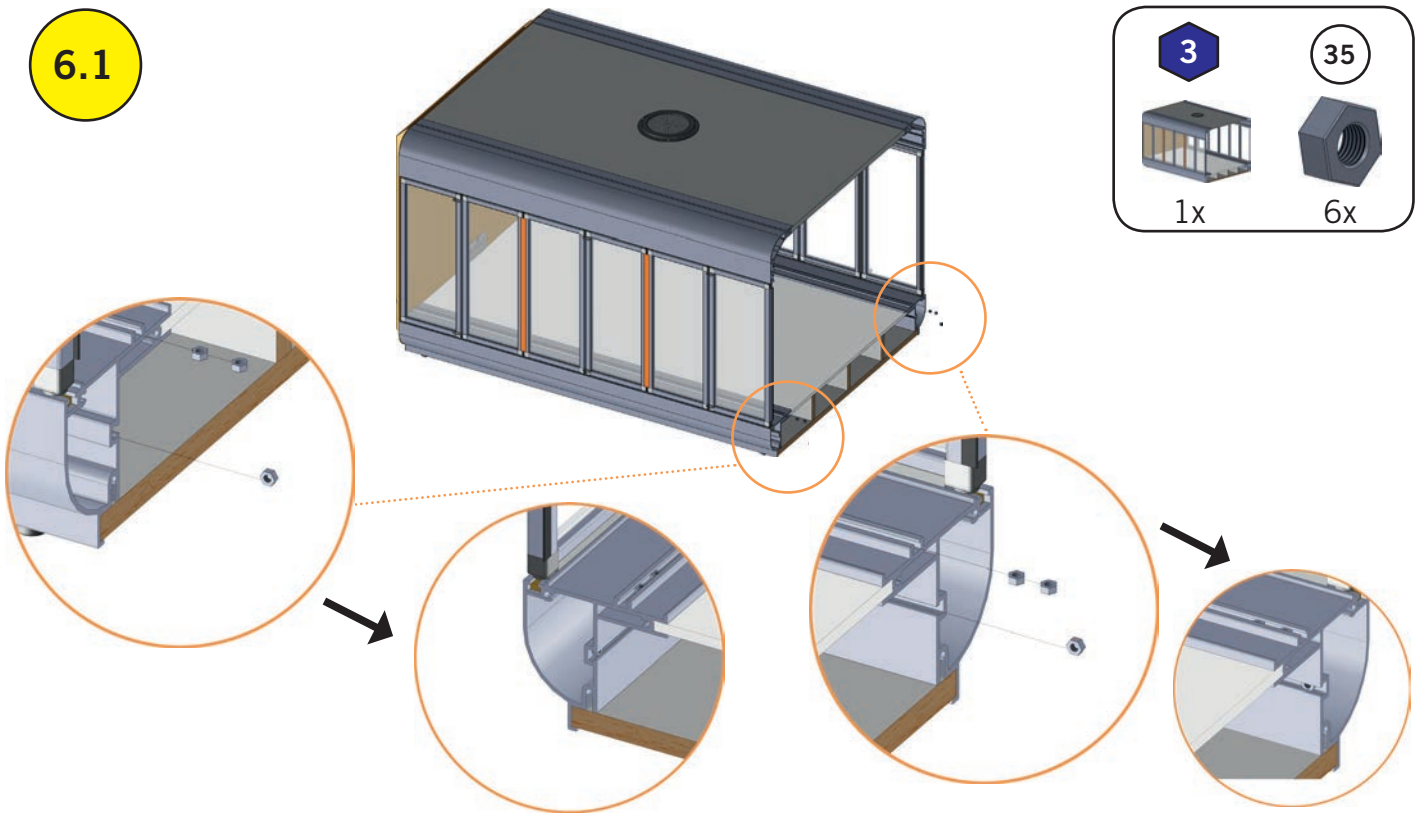
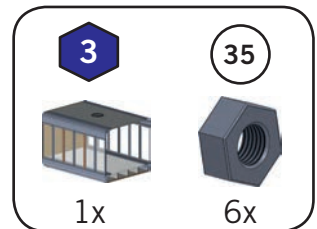


6



Final assembly

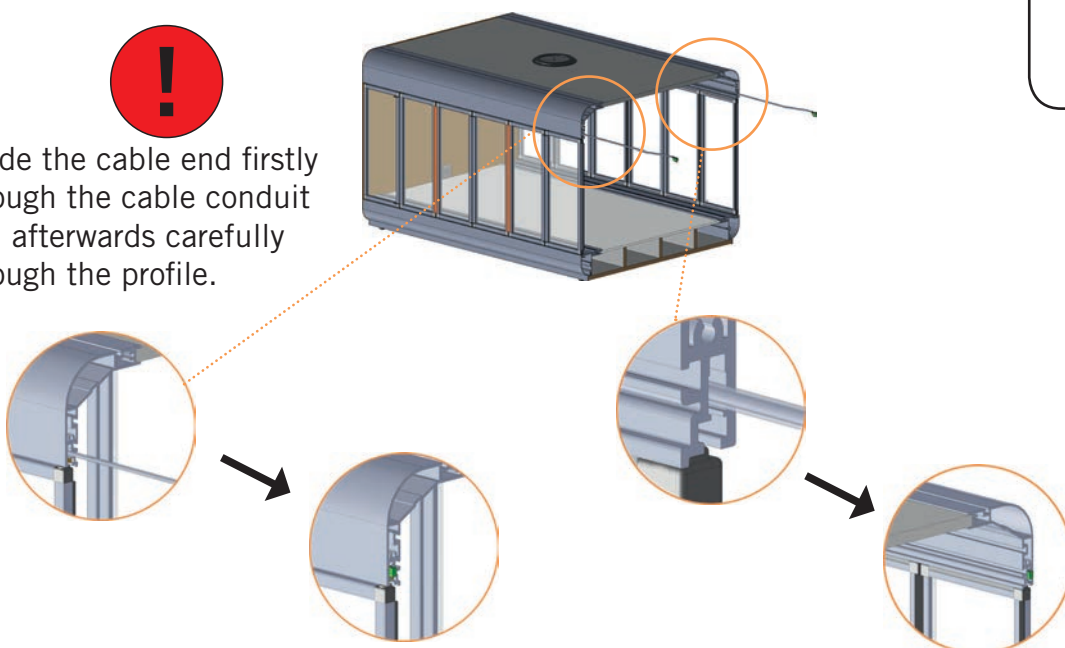
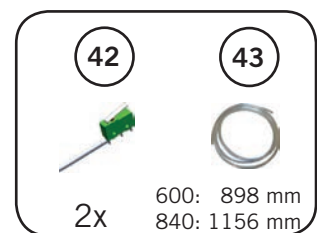
6.1



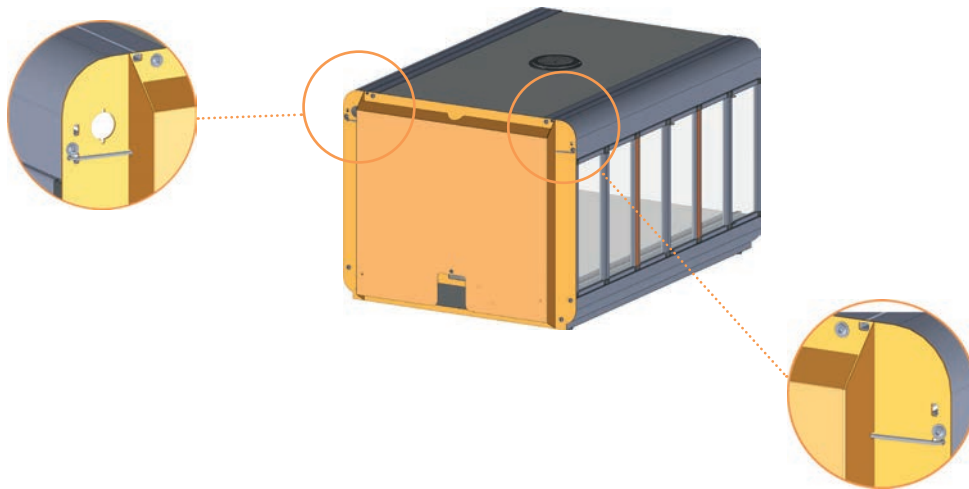
6.2



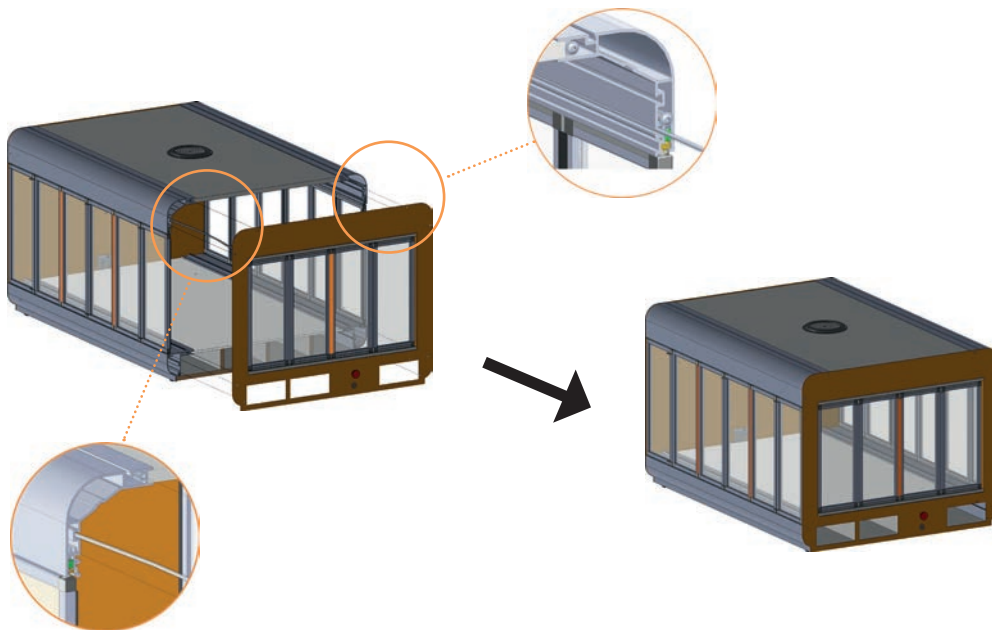
Guide the cable end firstly through the cable conduit and afterwards carefully through the profile.



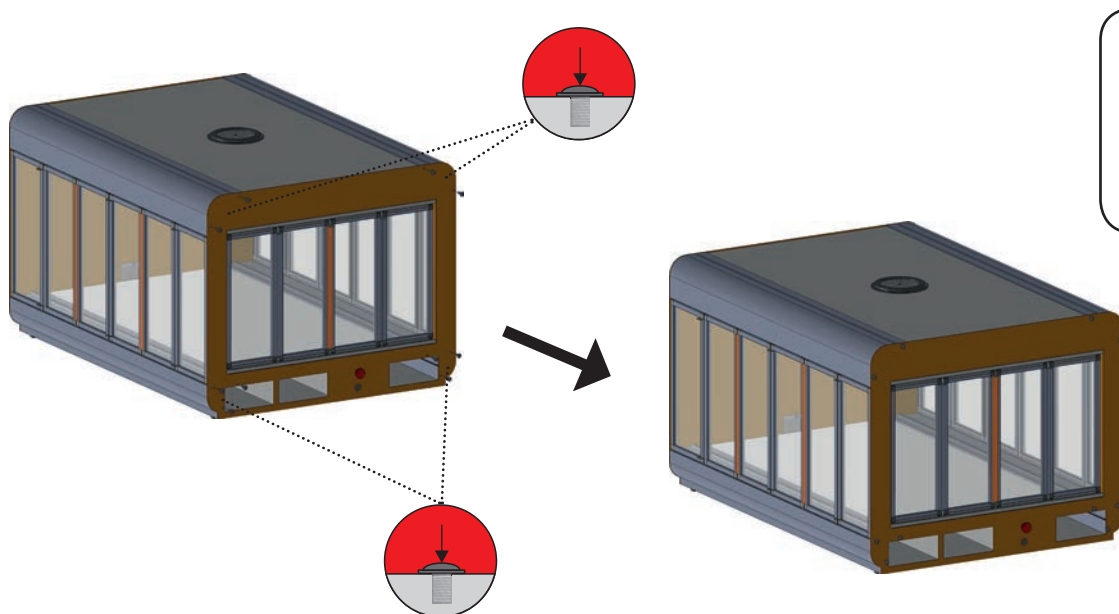
6.3



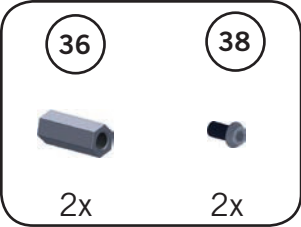
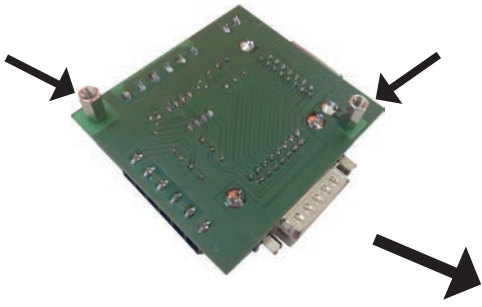
6.4



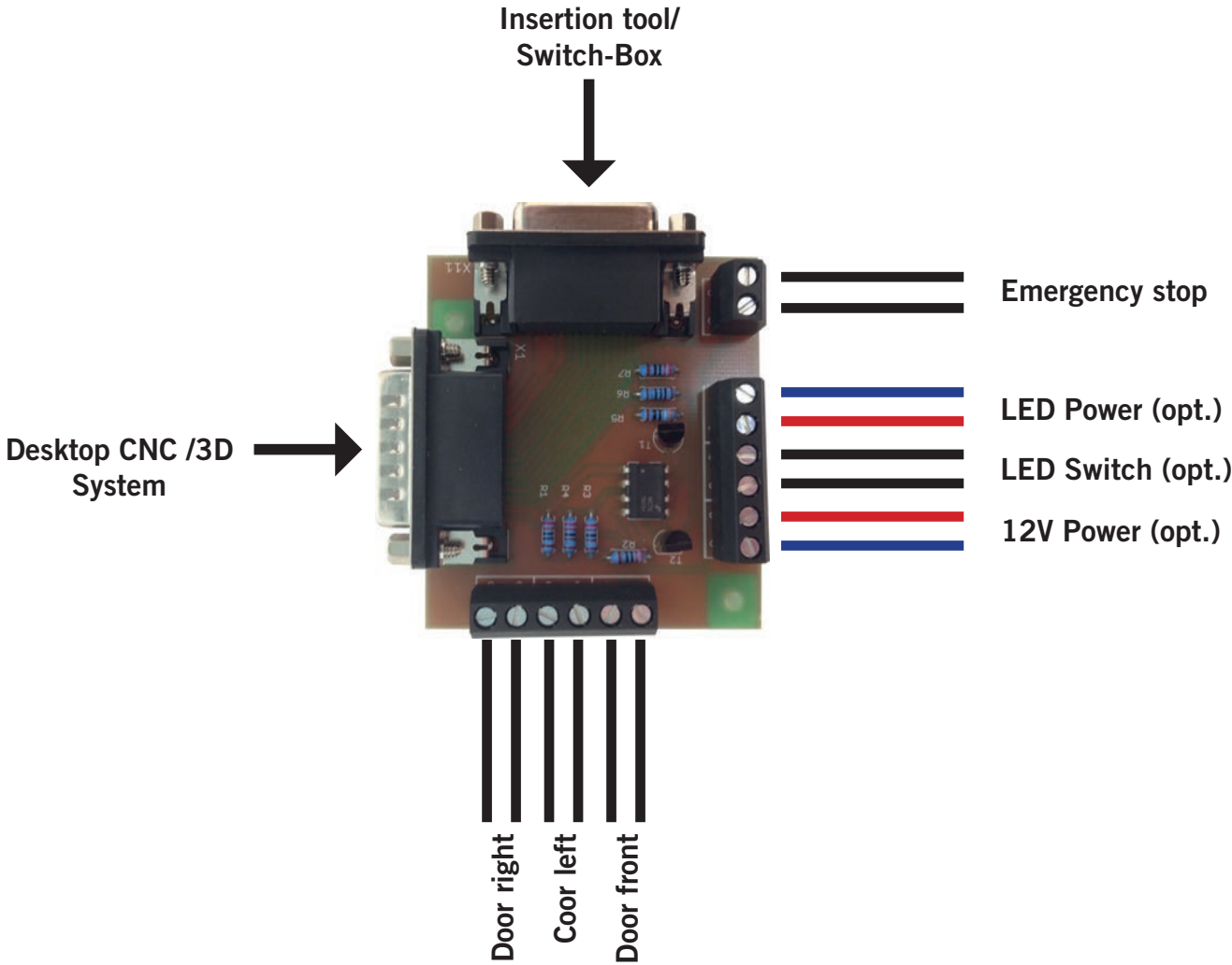
6.5



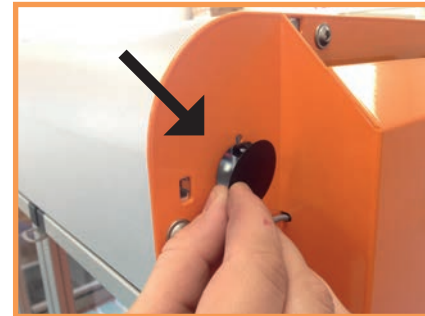
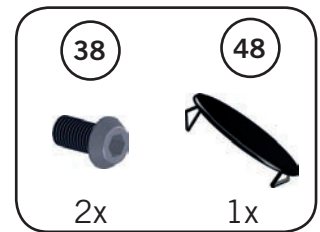
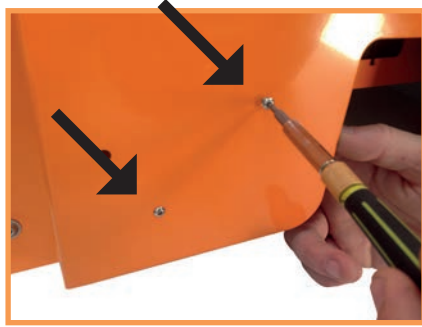
6.6



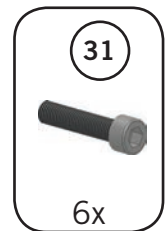
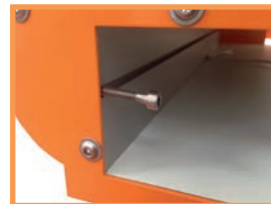
6.7



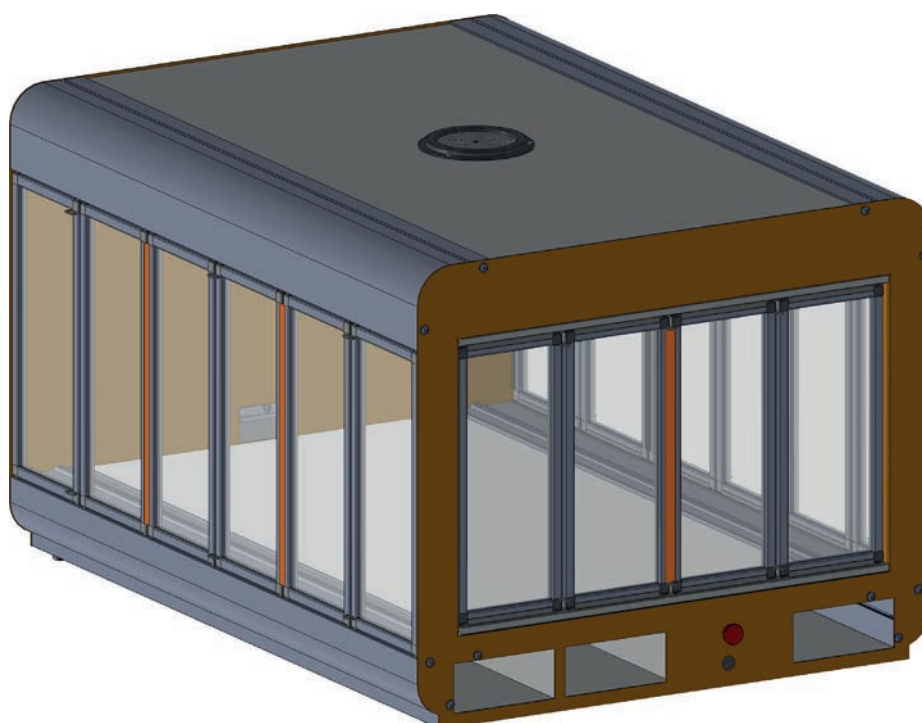
6.8



6.9



With the socket head screws M5 x 30 mm the **STEPCRAFT** Desktop CNC /3D System, control units or the Switch-Box and drawers can be fixed in their final position in the enclosure.



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