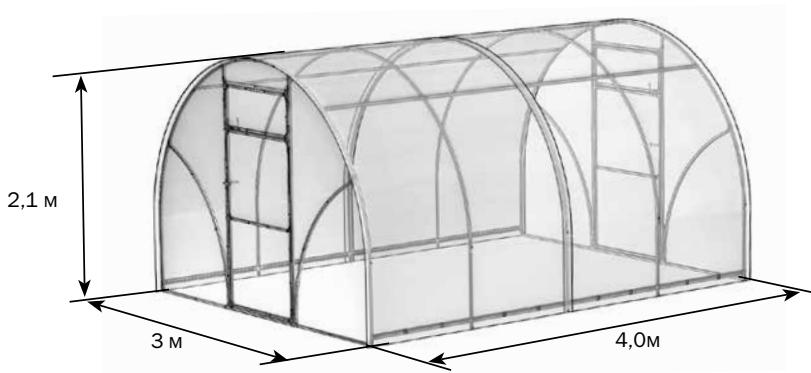




VOLCAN

Cellular polycarbonate Greenhouse



Technical certificate

p. 2-8

Assembly manual

p. 9-39

! The assembly and operation of the «ALFA» greenhouse should be carried out strictly in accordance with the Assembly manual and operating rules set forth in the technical certificate. The technical certificate must be kept.

Description

The «ALFA» greenhouse is designed to create a favorable microclimate for growing crops in allotments and family gardens.

The greenhouse is available in different lengths depending on the buyer's choice. The required length of the greenhouse is attained by buying additional packages with extension inserts. Each insert lengthens the standard supply set of the greenhouse by 2 m. The length of the standard supply set is 4 m. The height of the installed frame of the greenhouse is 2.1 m.

The frame of the greenhouse is made of galvanized steel pipes and profiles and is assembled with screws and nuts. The kit includes everything you need for fixing the glazing. The complete set of the greenhouse is glazed at the request of the buyer. The standard supply set requires 3 sheets of 2.1 x 6 m polycarbonate 4 or 6 mm thick: one 2.1x6 m polycarbonate sheet for each insert.

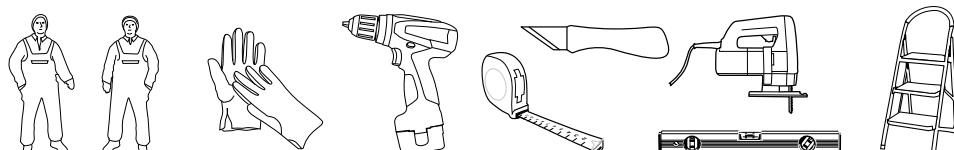
Operating rules

Before starting the operation, the greenhouse should be assembled and installed according to the Assembly manual instructions. When installing the greenhouse by third parties, the buyer should check the assembly quality for compliance with the Assembly manual instructions.

Do not install the greenhouse close to buildings and trees from which snow or ice may fall. The distance of at least 2 m is recommended.

The greenhouse is designed to withstand the wind speed no more than 24 m/s.

The maximum snow load for the framework occurs when the weight of a snow cover is 60 kg per 1 m² of the horizontal surface of the ground. It is necessary to avoid exceeding the snow load on the greenhouse: either to remove snow from the greenhouse after each snowfall, or remove the greenhouse glazing for winter, or install the sliding panels over all spans of the frame and shift them to the lower position for winter.



Cleaning and washing polycarbonate panels

1. Rinse the panel with warm water.
2. Wash the panel with a mild soap solution or household detergent and warm water, using a soft cloth or sponge to remove dirt.
3. Rinse with cold water and wipe with a soft cloth.

Do not use abrasives or highly alkaline cleaning agents to clean polycarbonate panels. Dry wiping of the surface will damage the protective layer of the glazing and shorten its effective life. Do not rub the surface of polycarbonate panels with brushes, metallic fabric or other abrasive materials. When disinfecting a greenhouse from pathogens of fungal and bacterial diseases, do not apply sulfur candles to avoid corrosion (blackening) of the frame.

Warranty

1. The manufacturer is liable for the completeness of the product.
2. The manufacturer is liable for the possibility to assemble the structure in accordance with the Assembly manual instructions.
3. The manufacturer is liable for the structural strength within the specified operating rules.
4. Claim submission period is 24 months from the date of purchase.

Warranty Terms

Warranty does not apply to cases if:

1. Installation of the structure in violation of the requirements of the instructions.
2. Violation of the operating rules.
3. Misuse of the structure.
4. The presence of corrosion traces on the cutoffs of parts, because this does not affect the performance of the structure.
5. Greenhouse deformations due to excess of snow load stated in the technical certificate of the greenhouse.
6. Greenhouse deformations due to soil movement.
7. Floods, hurricanes, and other natural disasters.

STANDARD SUPPLY SET

1 PACKAGE

Nº	marking	denomination	q-ty, pcs
1	1	Leg	10
2	1-2	End wall leg	4
3	2	Purlin	20

2 PACKAGE

Nº	marking	denomination	q-ty, pcs
4	8-1	End wall connecting bar	2
5	8-2	End wall corrugated connecting bar	2
6	9-2	Doorway post for hinges	2
7	9-1	Doorway post	2
8	10	Doorway tie	2
9	12	Door vertical element for hinges	2
10	12-1	Door vertical element	2
11	12-2	Window vertical element for hinges	2
12	12-3	Window vertical element	2
13	13-1	Door/window horizontal element	6
14	13	Door horizontal element medium	2
15	13-2	Window horizontal element	2

3 PACKAGE

Nº	marking	denomination	q-ty, pcs
16	4T	End wall arch	4
17	4BT	Upper end wall arch	2
18	4B	Upper arch	3

4 PACKAGE

Nº	marking	denomination	q-ty, pcs
19	4H	Lower arch	6
20	4HT	Lower end wall arch right	2
21	4HT-1	Lower end wall arch left	2

5 PACKAGE

Nº	marking	denomination	q-ty, pcs
22	-	Inner clamp	15
23	-	Outer clamp	15
24	-	End wall clamp	10
25	-	40x20 clamp	4
26	-	40x20 clamp	4
27	-	20x20 clamp	40
28	-	20x20 angle clamp	32
29	-	Hinge	8
30	-	Handle kit	4
31	3	Support	14
32	-	Handle bushing	4
33	-	Latch	4
34	-	Stop bar	4
35	-	Door holder kit (hooks)	2
36	-	Washer	4
37	-	Adhesive tape	1
38	-	M4x12 screw	40

Nº	marking	denomination	q-ty, pcs
39	-	M4x35 screw	 16
40	-	M5x30 screw	 36
41	-	M6x16 screw	 40
42	-	4.8x19 self drilling screw	 295
43	-	4.8x11 sharp-tipped screw	 4
44	-	32x4 washer	 16
45	-	M4 nut	 56
46	-	M5 nut	 40
47	-	M6 nut	 40

3 INSERT PACKAGE

Nº	marking	denomination	q-ty, pcs
52	3	Support	 4
53	-	Inner clamp	 10
54	-	Outer clamp	 10
55	-	M4x12 screw	 20
56	-	M4x35 screw	 8
57	-	M4 nut	 28
58	-	32x4 washer	 8
59	-	4.8x19 self drilling screw	 22

EXTENSION INSERT KIT

1 INSERT PACKAGE

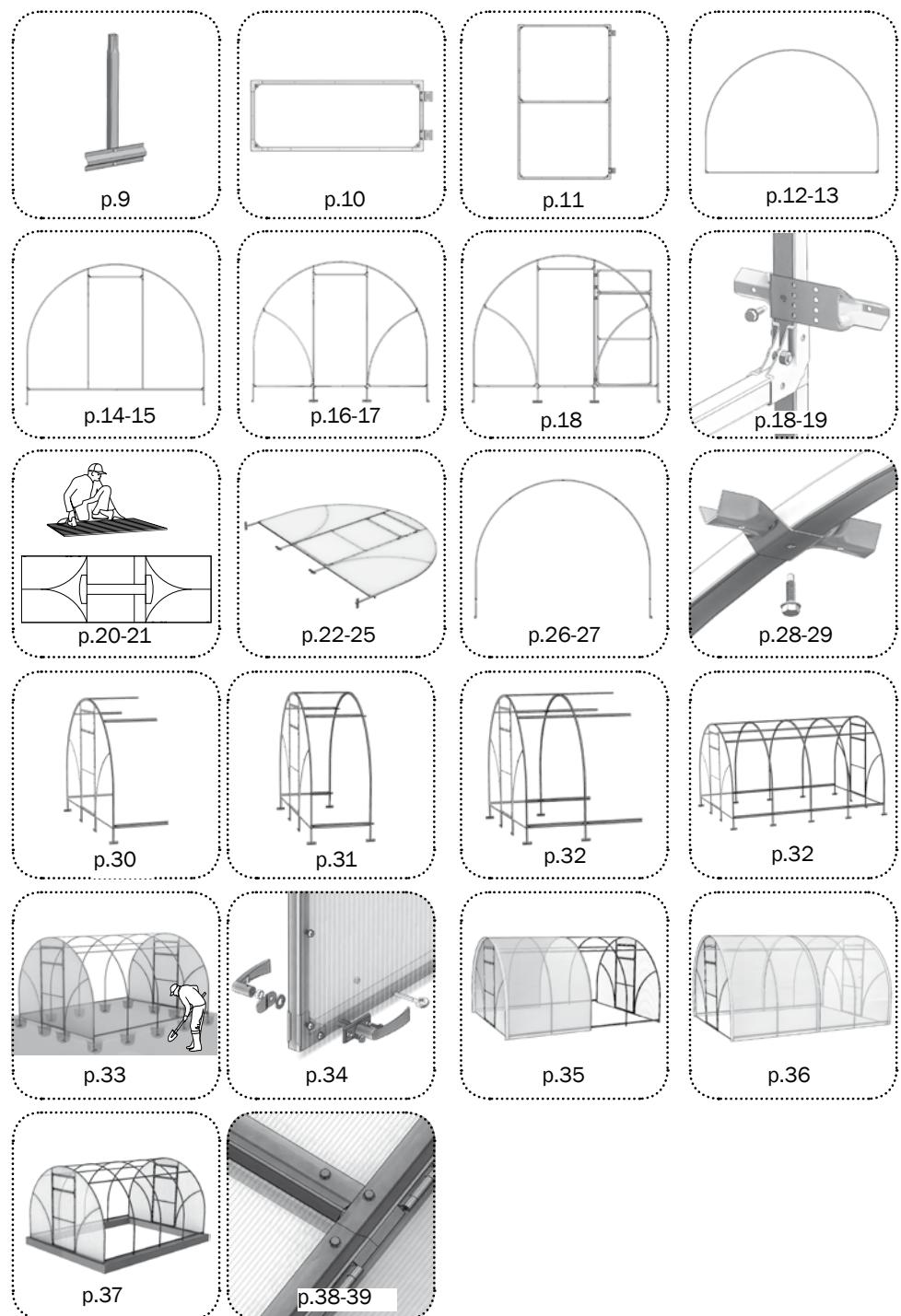
Nº	marking	denomination	q-ty, pcs
48	1	Leg	 4
49	2	Purlin	 10

2 INSERT PACKAGE

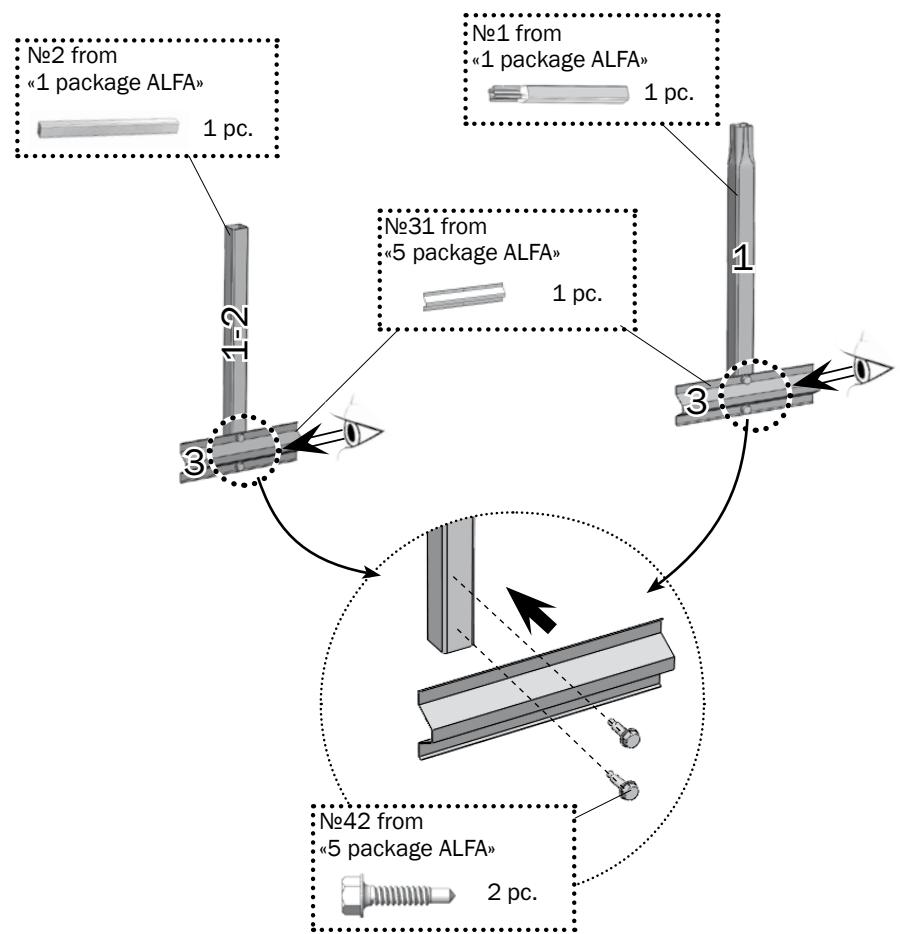
Nº	marking	denomination	q-ty, pcs
50	4B	Upper arch	 2
51	4H	Lower arch	 4

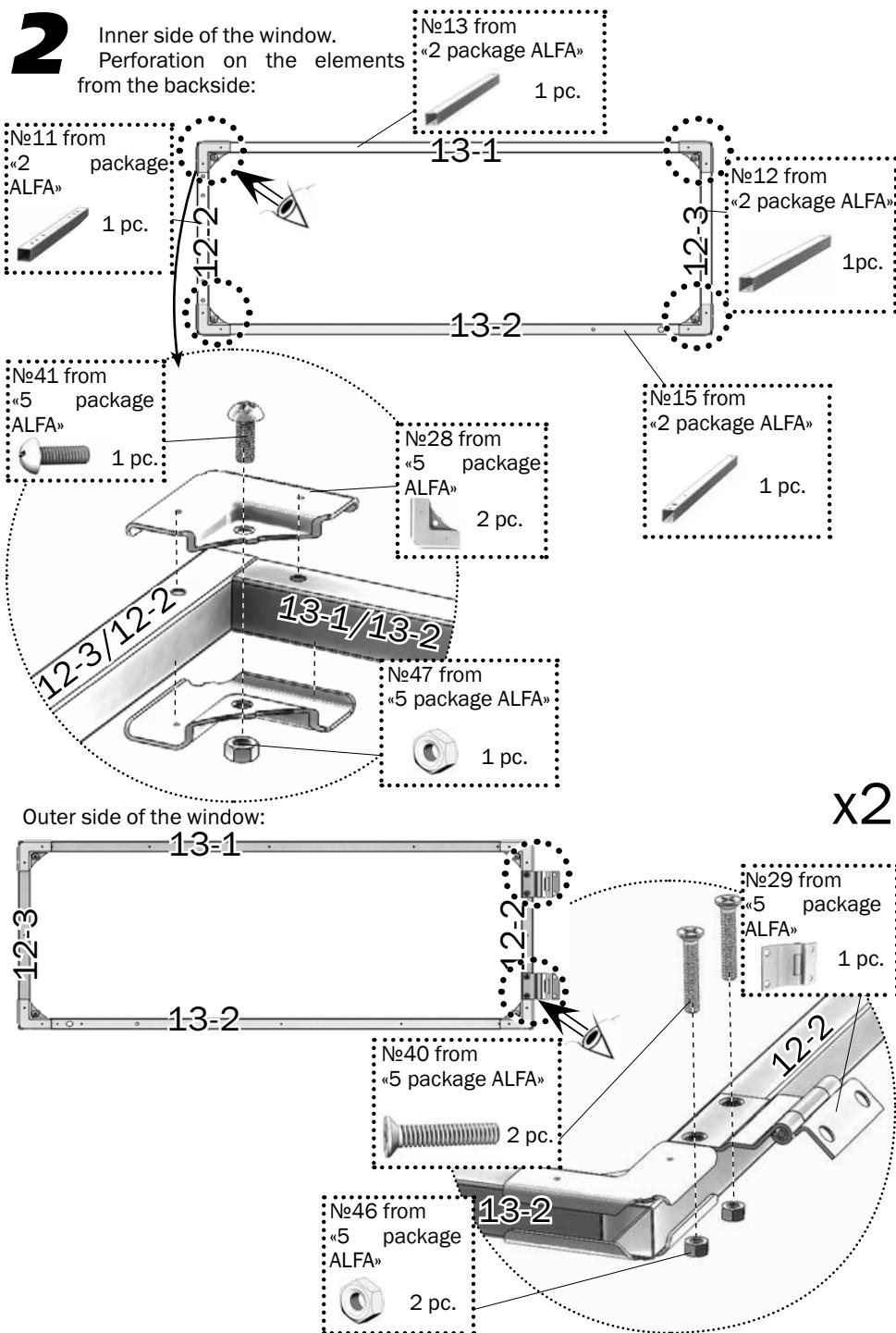
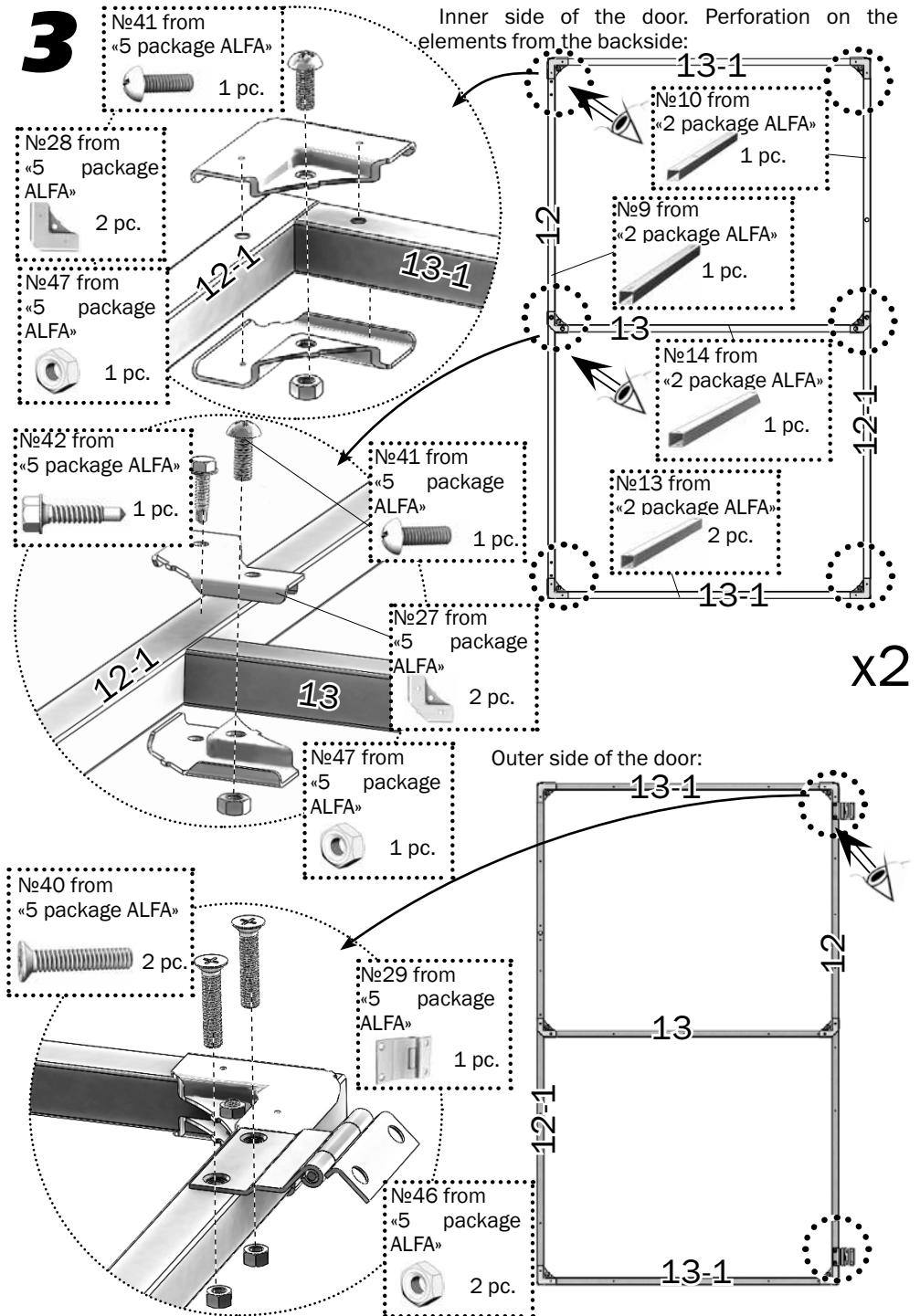
Decorative steel lining (seal)
Additional kit (purchase separately)

Nº	marking	denomination	q-ty, pcs
60	Y1	Door lining	 2
61	Y2	Door lining	 2
62	Y8	Door lining	 2
63	Y9	Door lining	 2
64	Y10	Window lining	 2
65	Y6	Window lining	 2
66	Y7	Window lining	 2
67	Y11	Window lining	 2

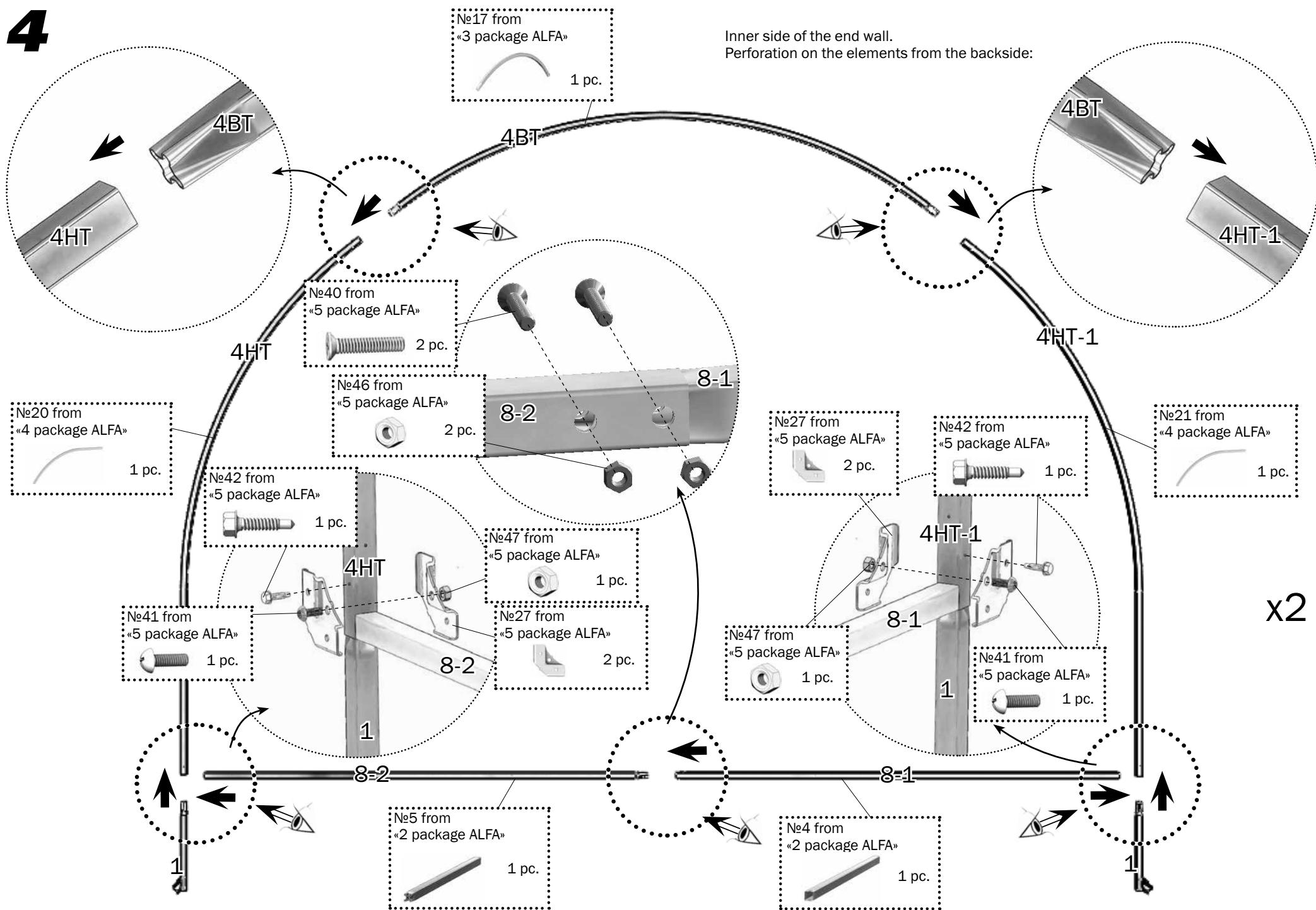


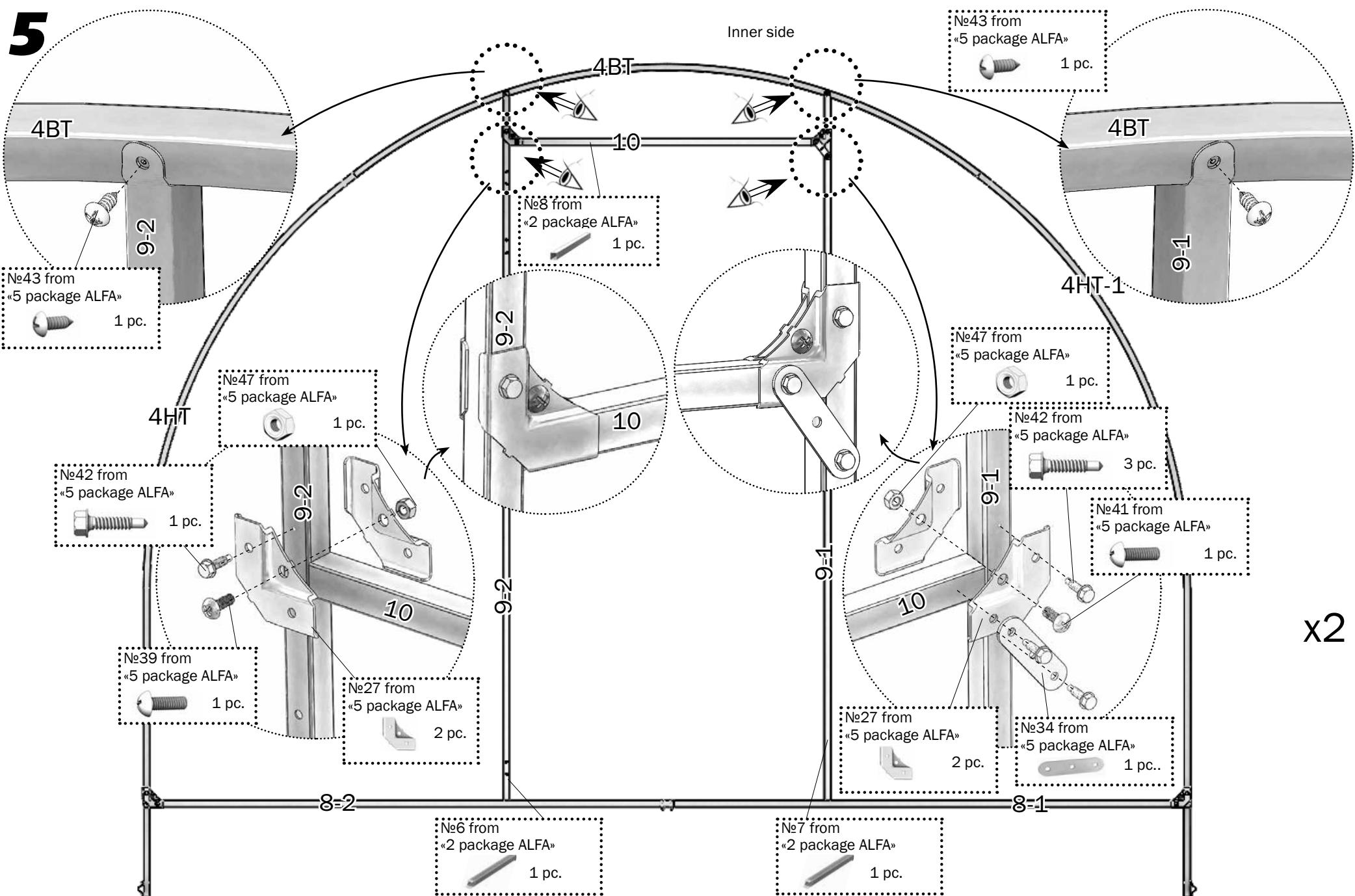
1 If the greenhouse is mounted on a foundation (see para.27), the elements **1** and **3** are not assembled and are not mounted in the subsequent assembly.



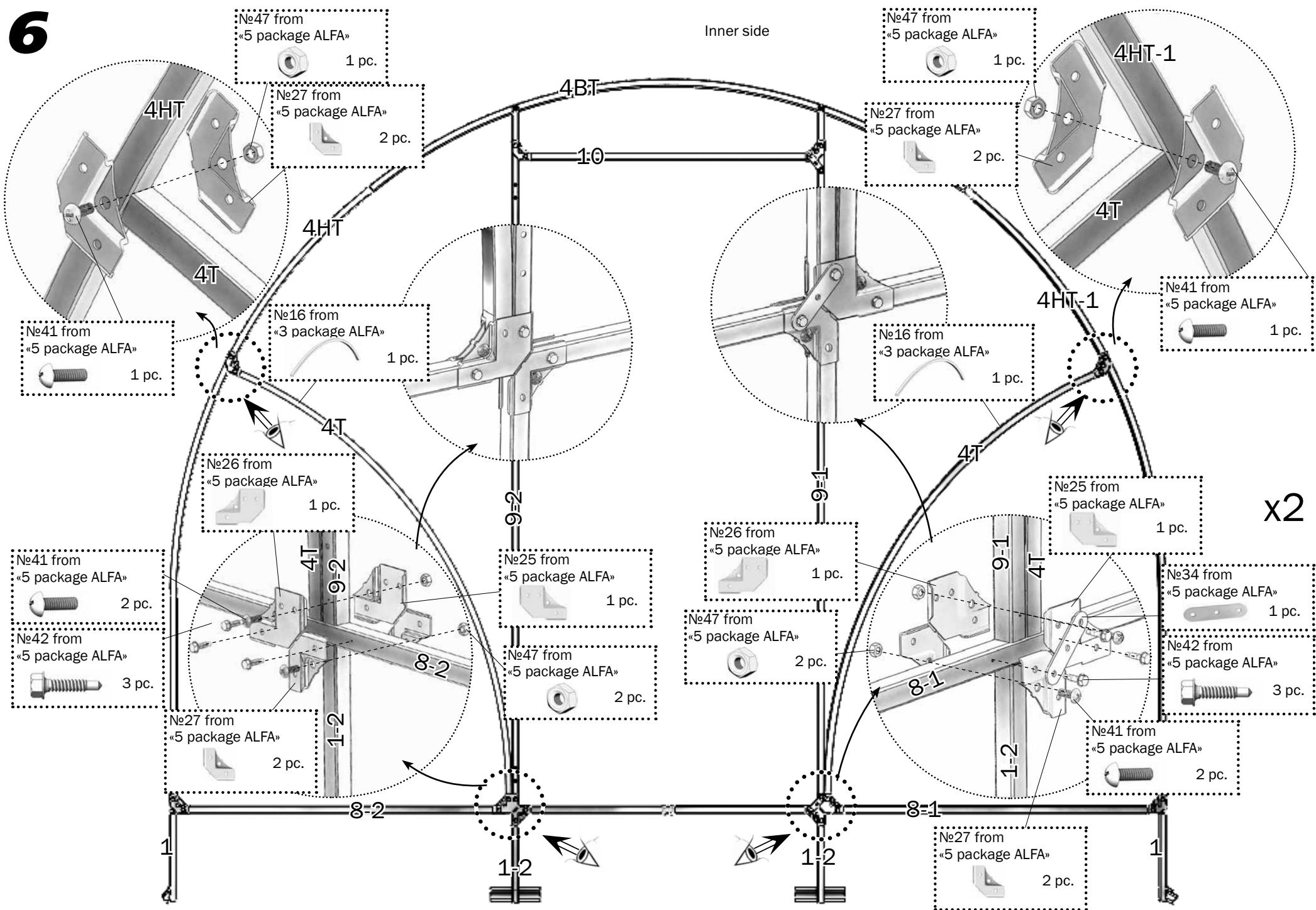
2**3**

4



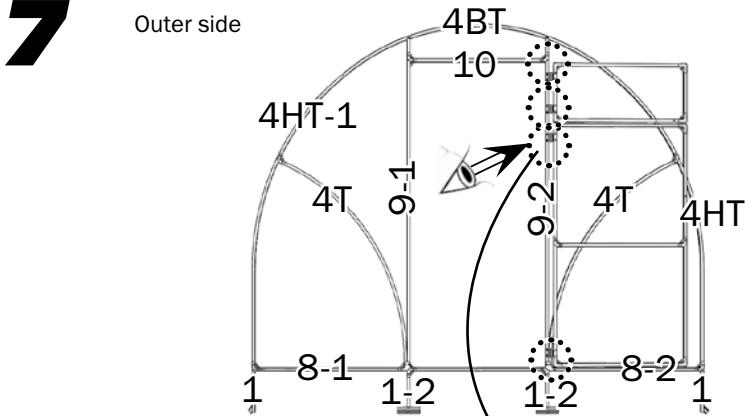
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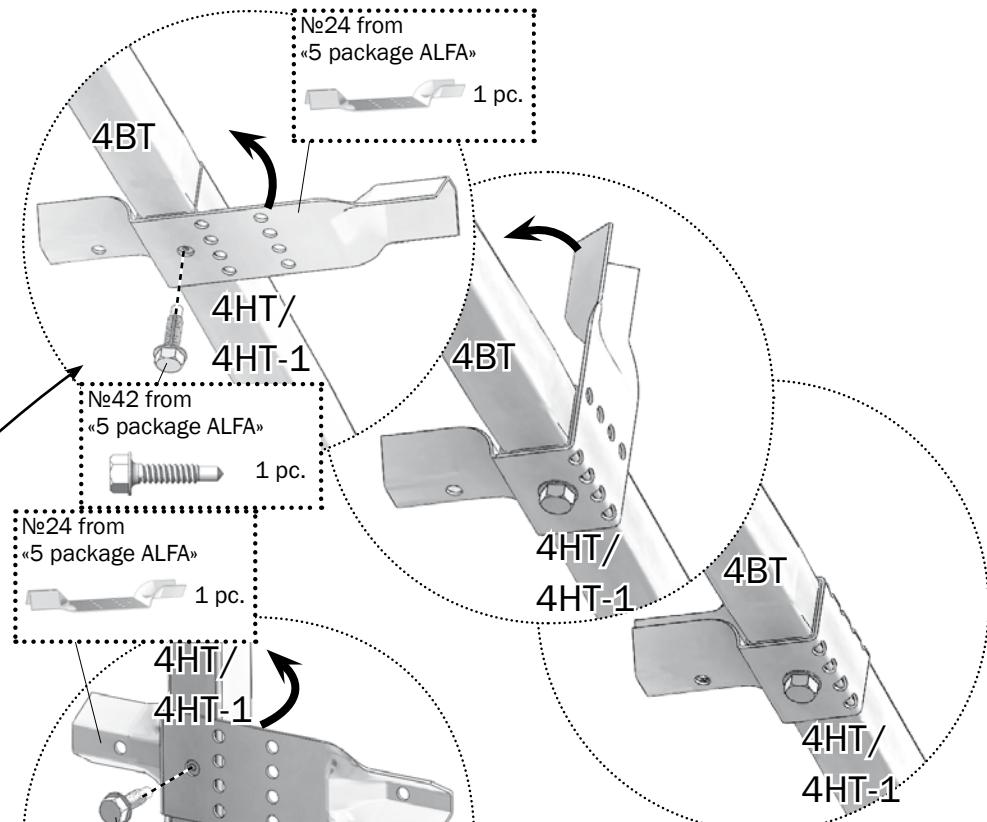


7

Outer side

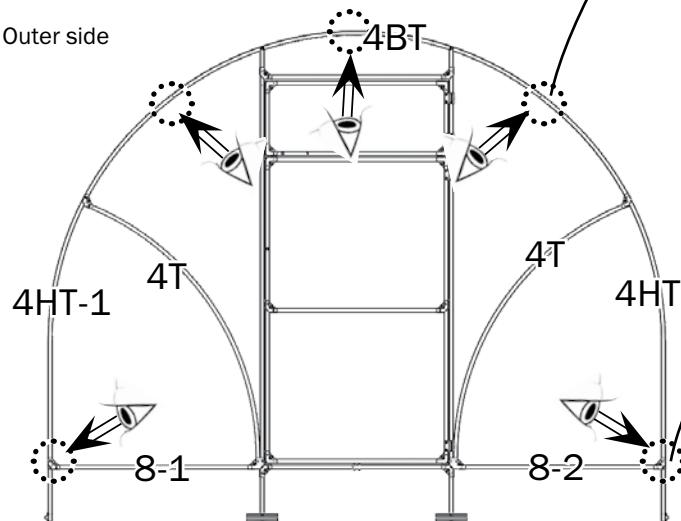


x2

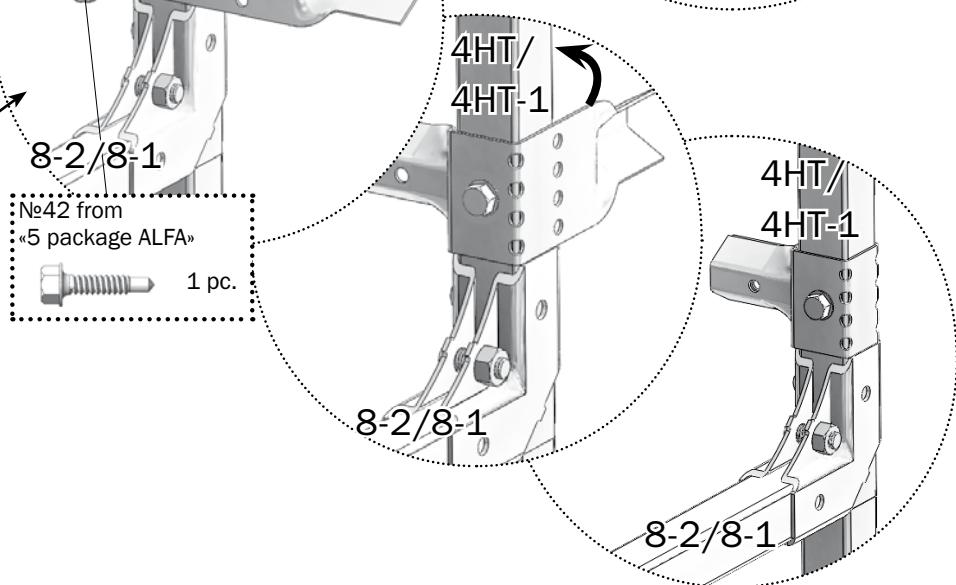


8

Outer side

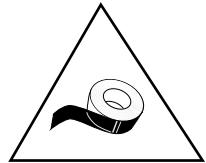
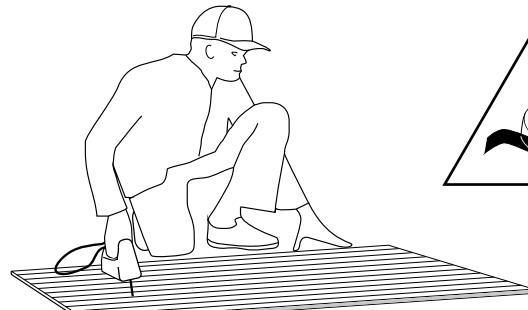


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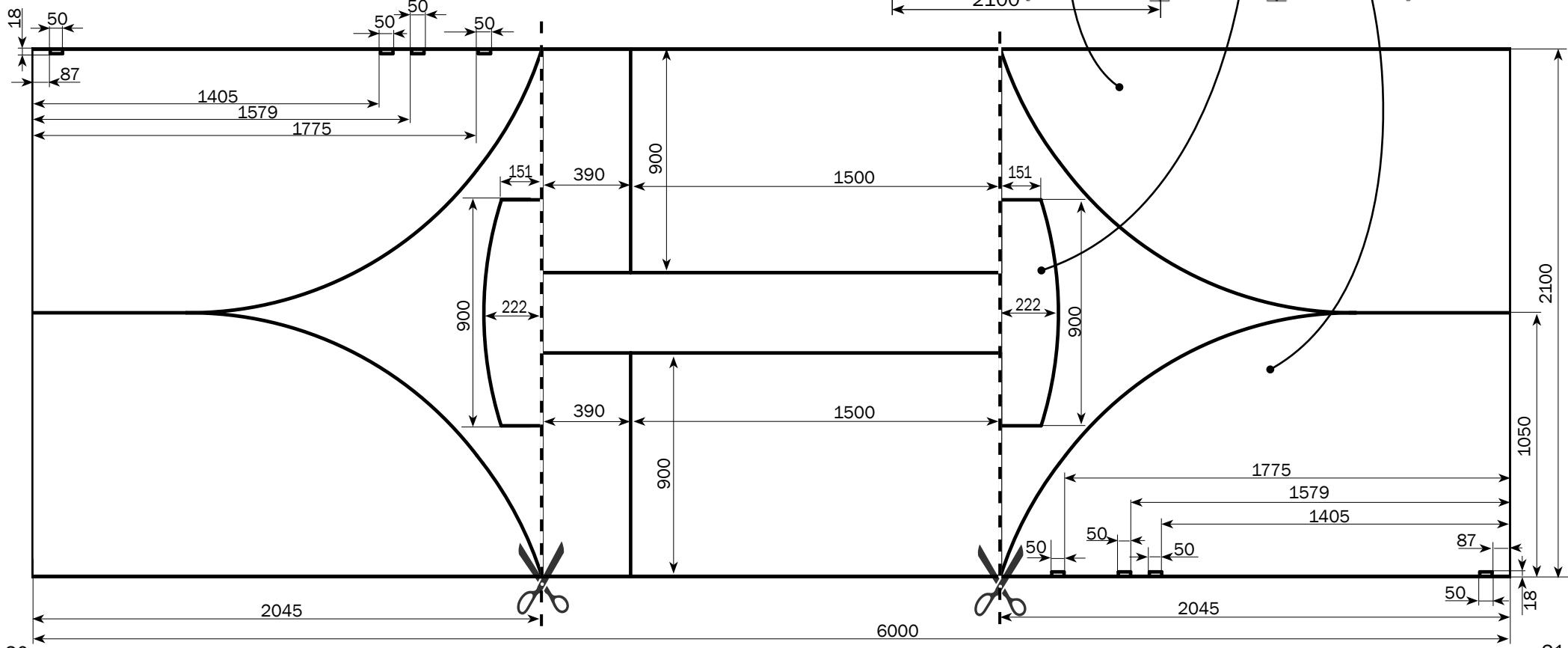


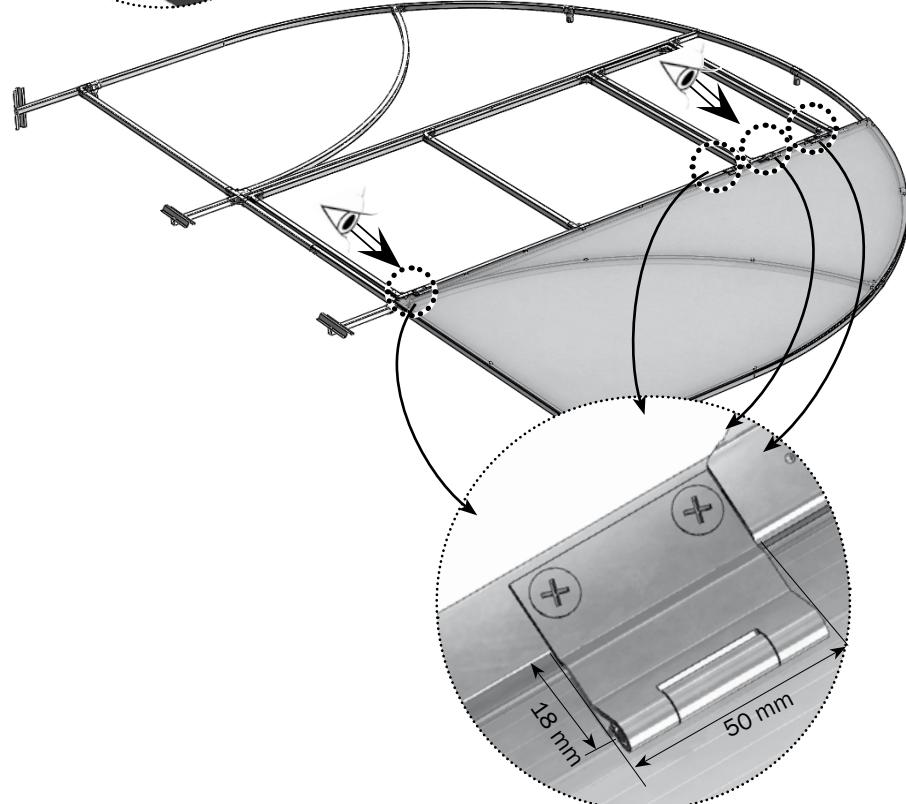
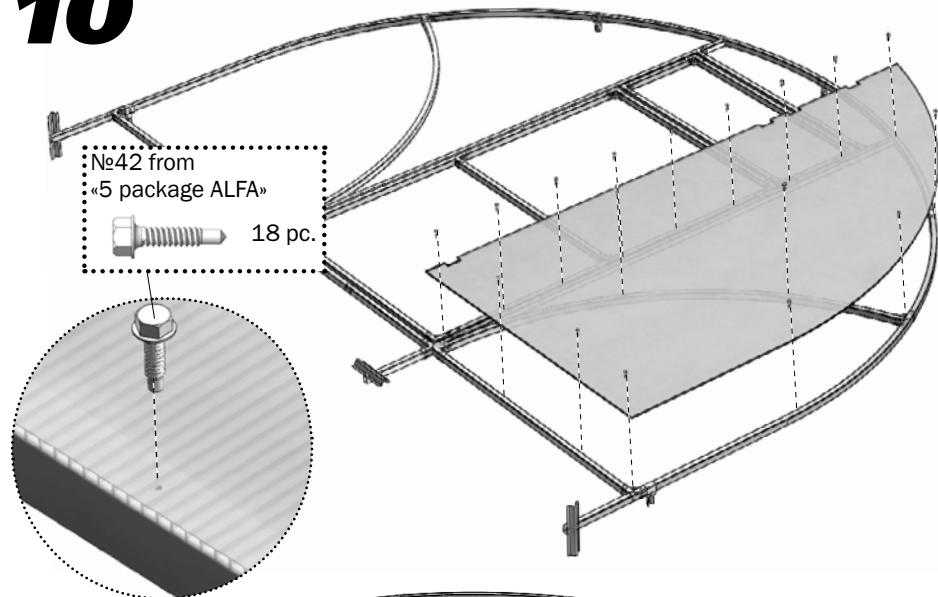
9

Cellular polycarbonate panels are installed with a certain surface, which has a protective layer, outside (towards the sun). The protective layer usually has a side with the inscriptions on the transportation film. The other side of the film is transparent. Mark the protective side of the sheet in each panel because after removing the transportation film, the sides of the panel do not visually differ. The transportation film should be removed from both surfaces before fixing the glazing on the frame.

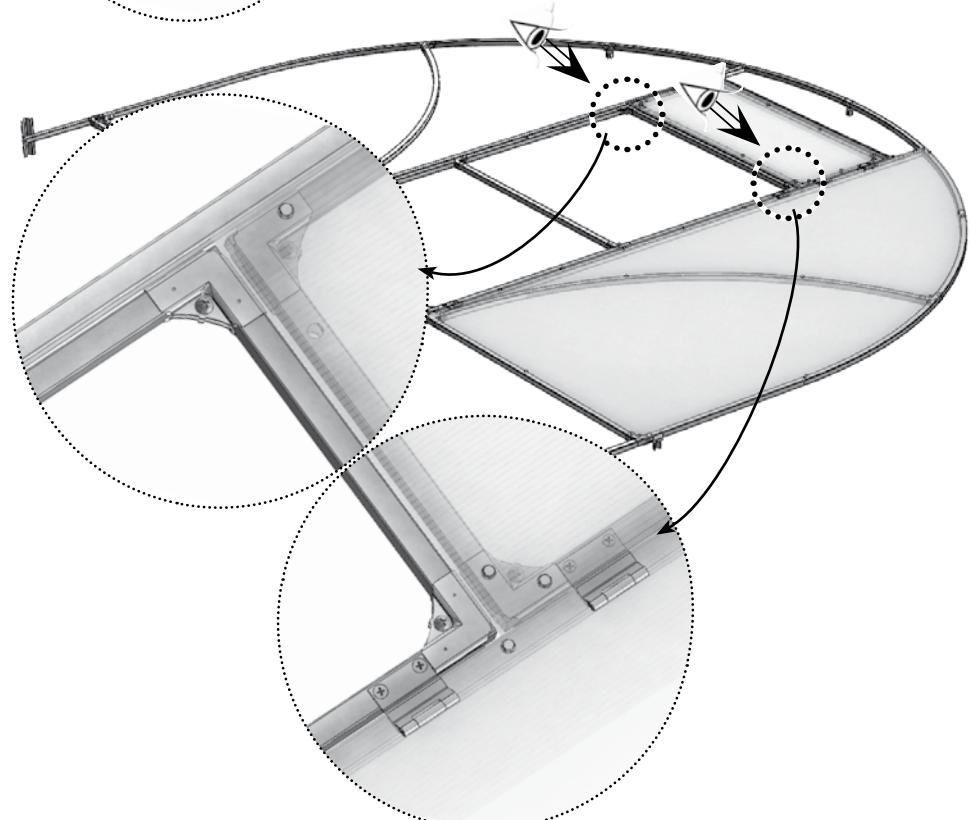
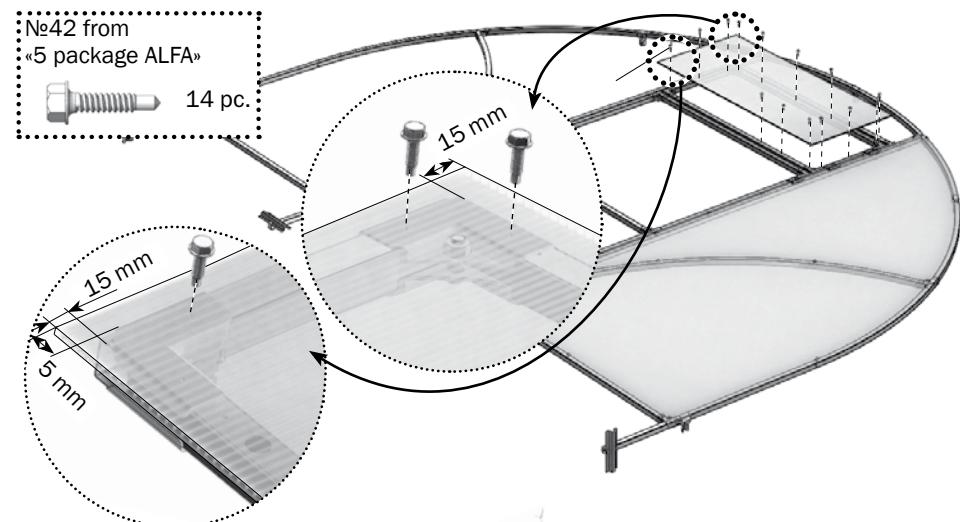


It is necessary to stick the adhesive tape over the open polycarbonate shearing surfaces.

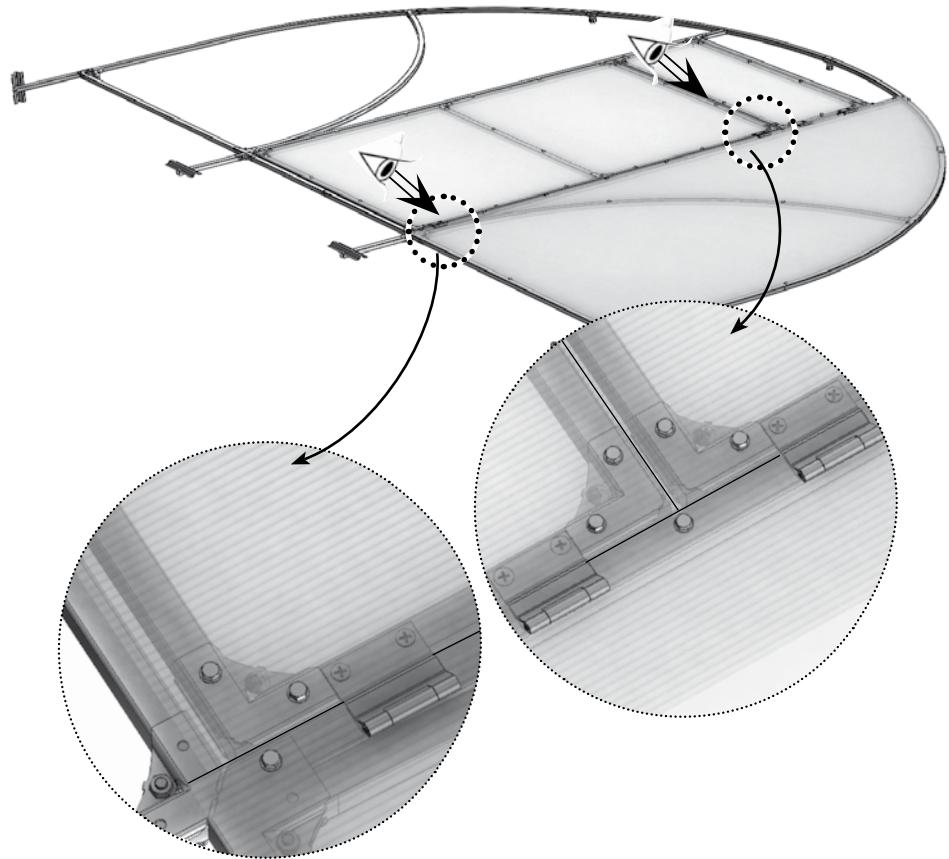
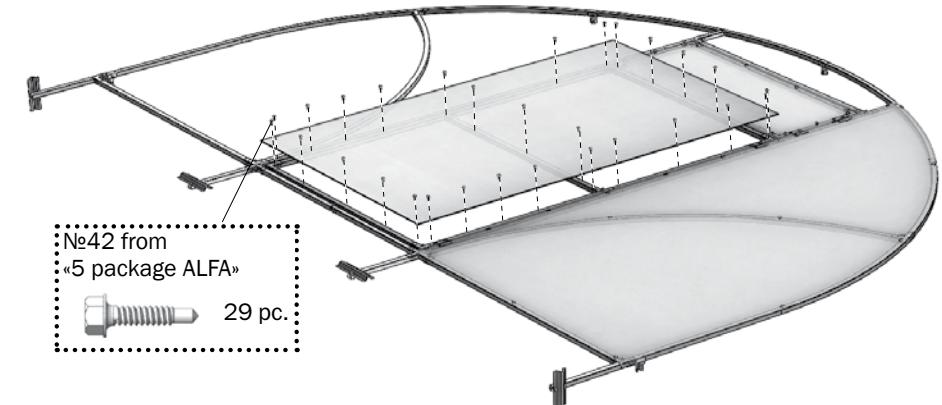


10**11**

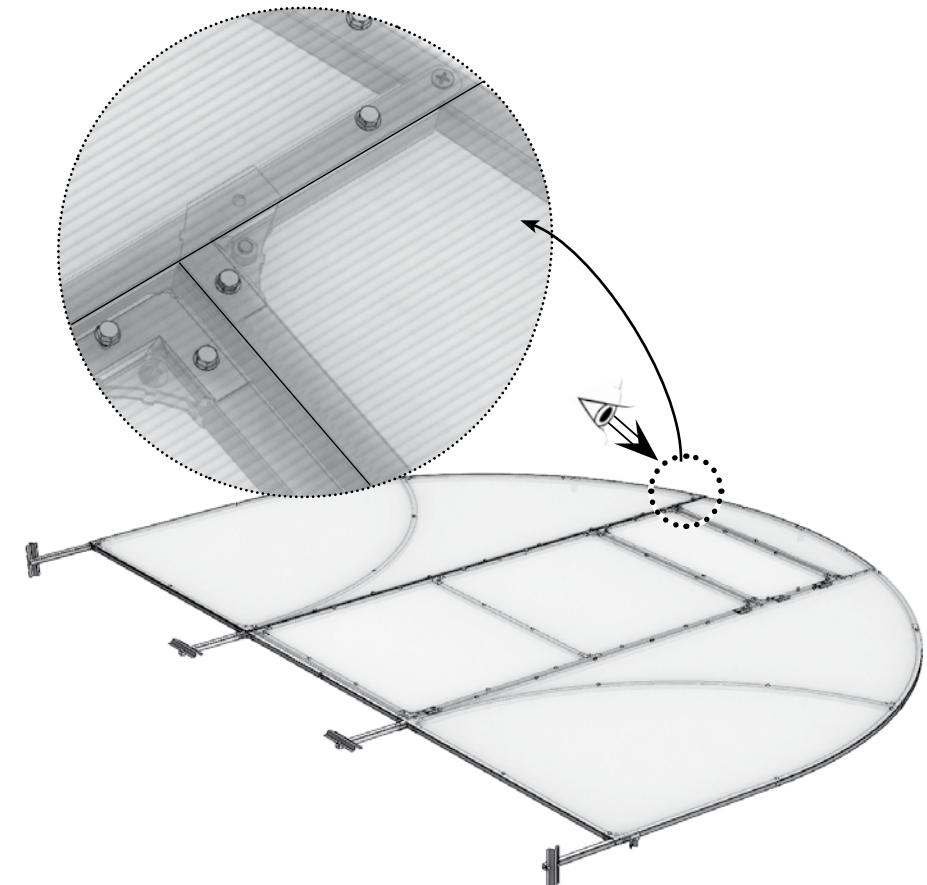
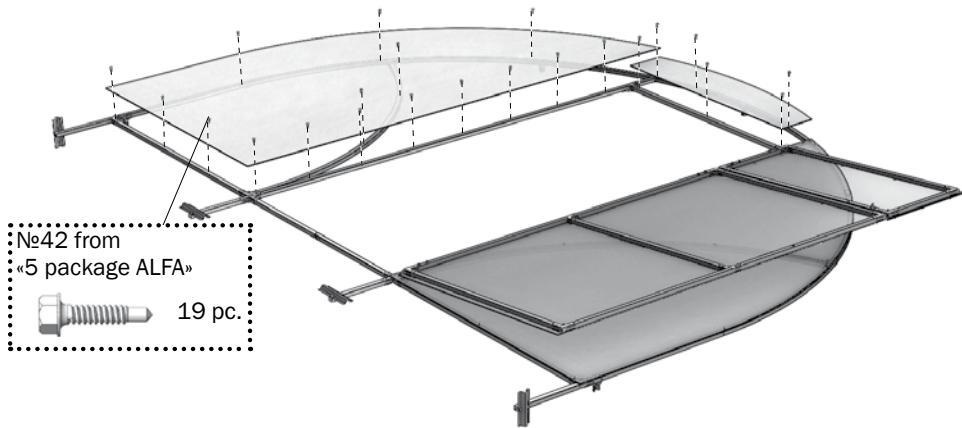
In case the decorative steel lining (seal) from the additional kit is installed on the doors and windows see para.28



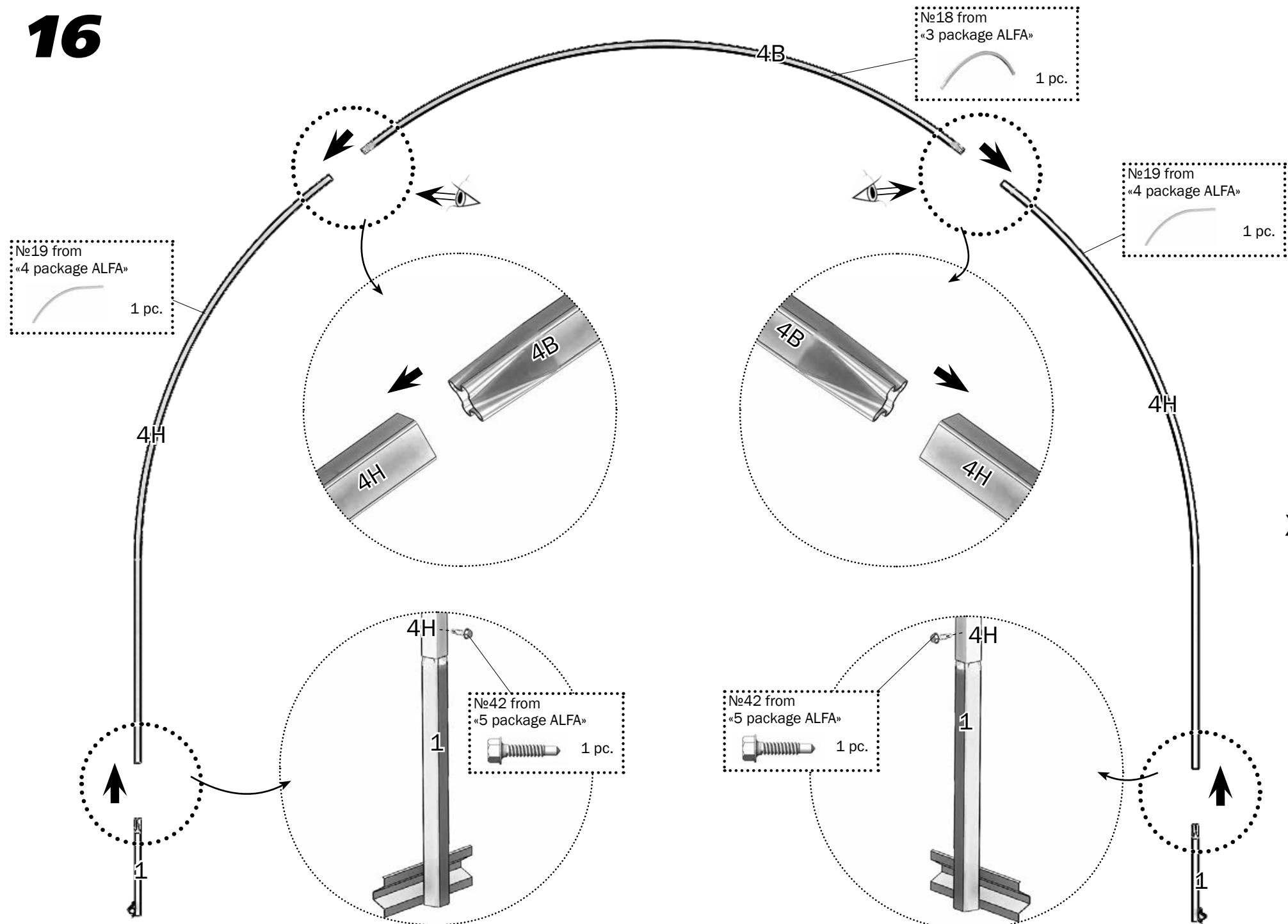
14 In case the decorative steel lining (seal) from the additional kit is installed on the doors and windows see para.28



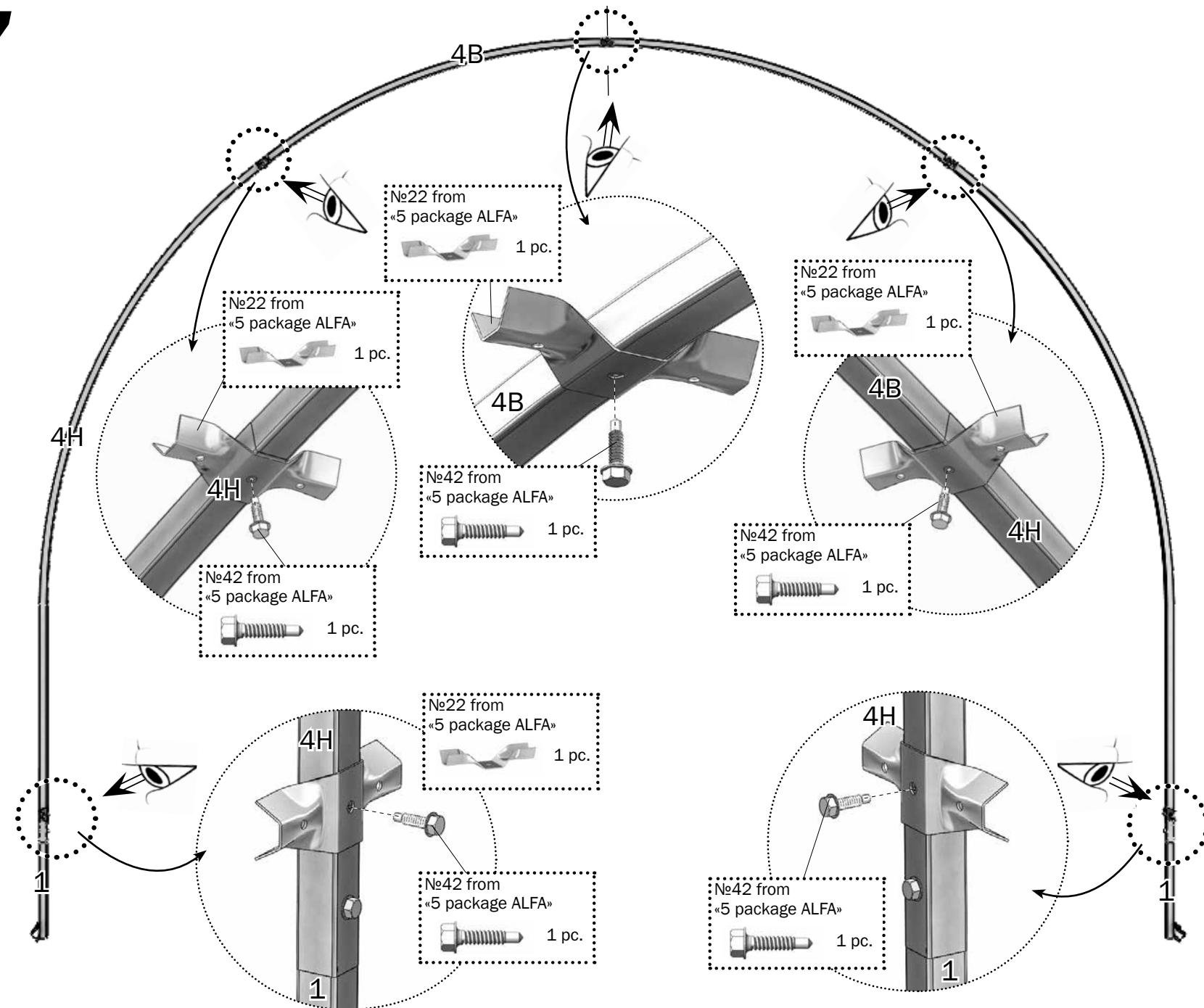
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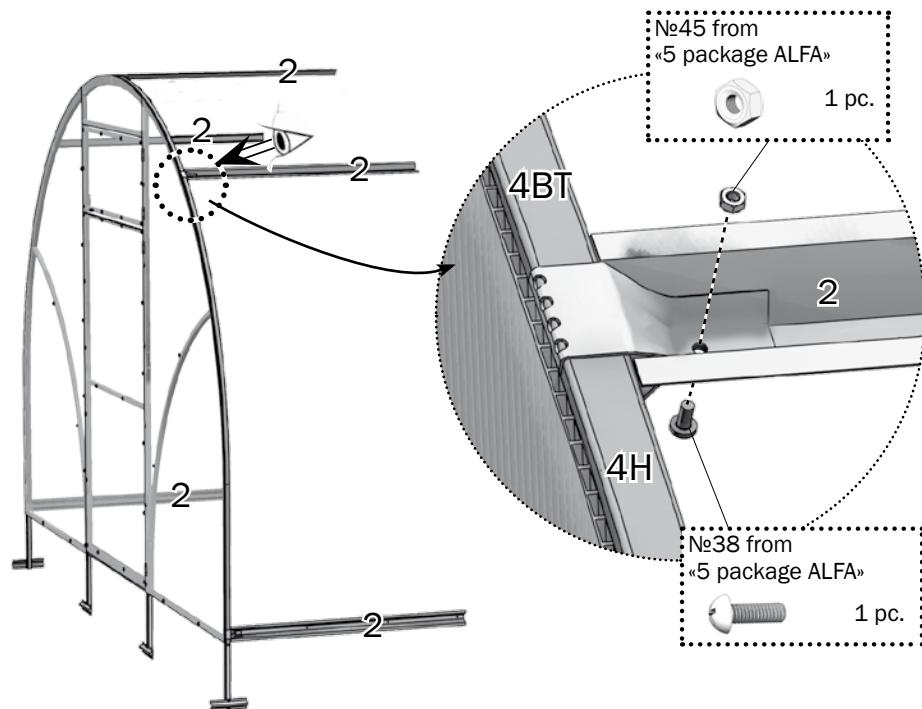
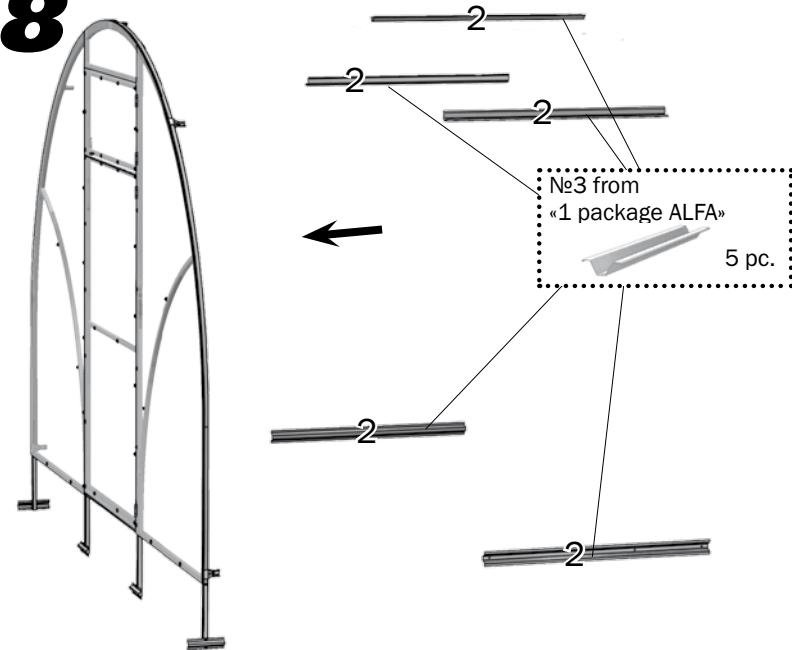
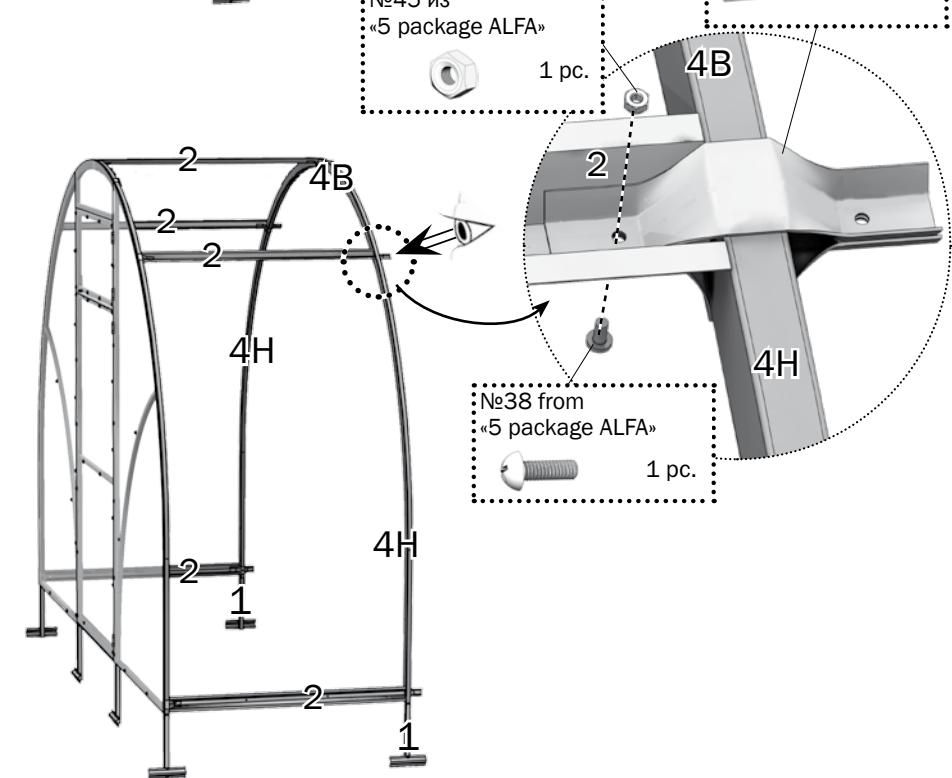
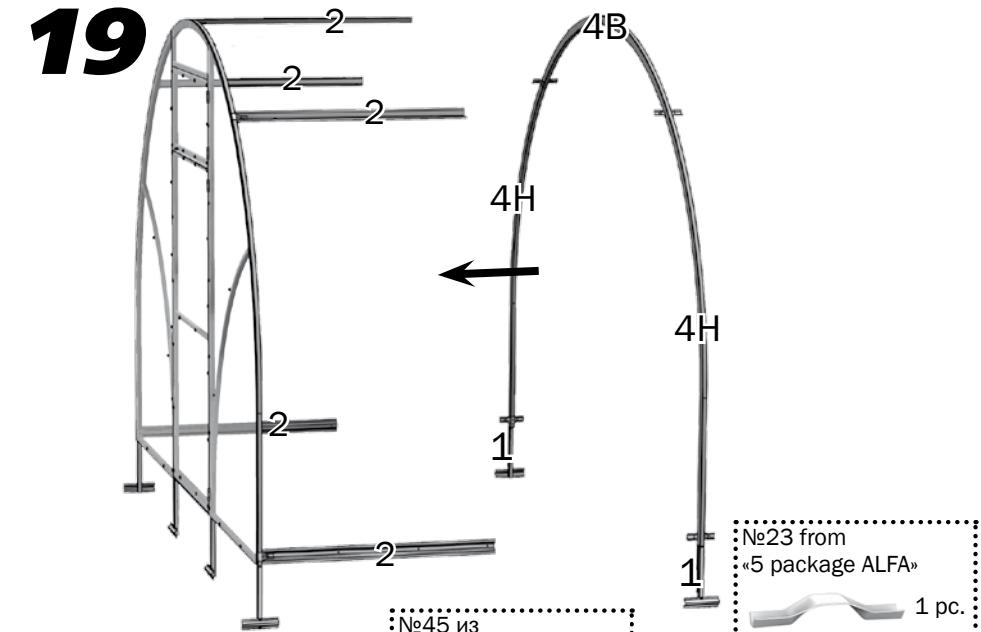


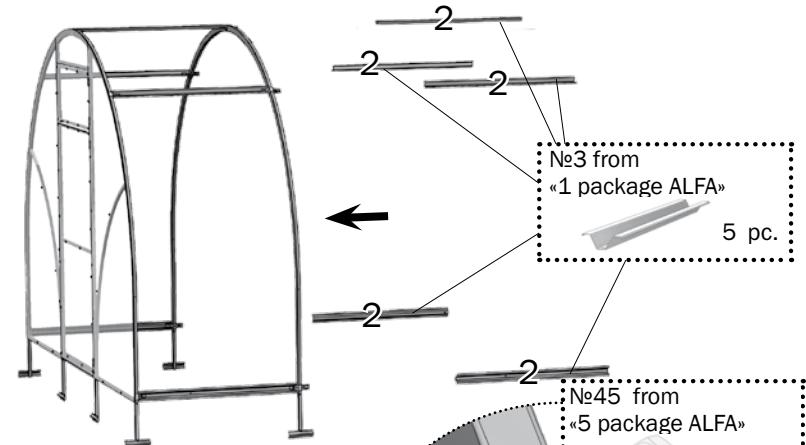
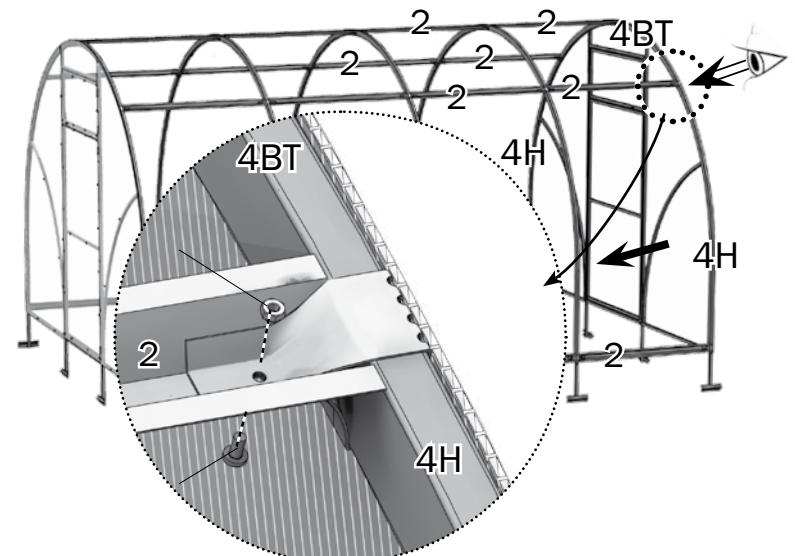
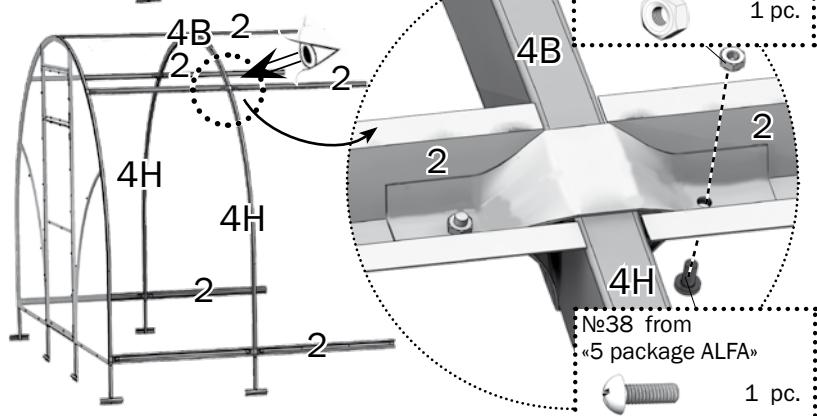
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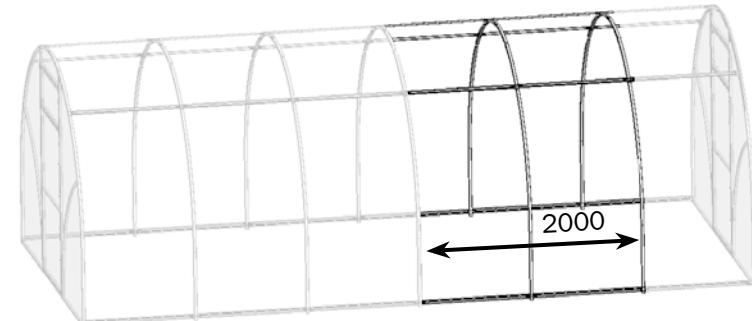
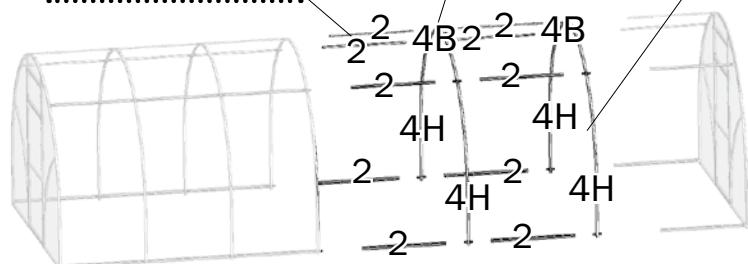
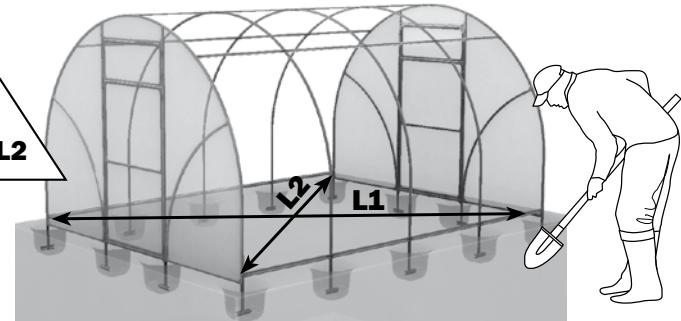
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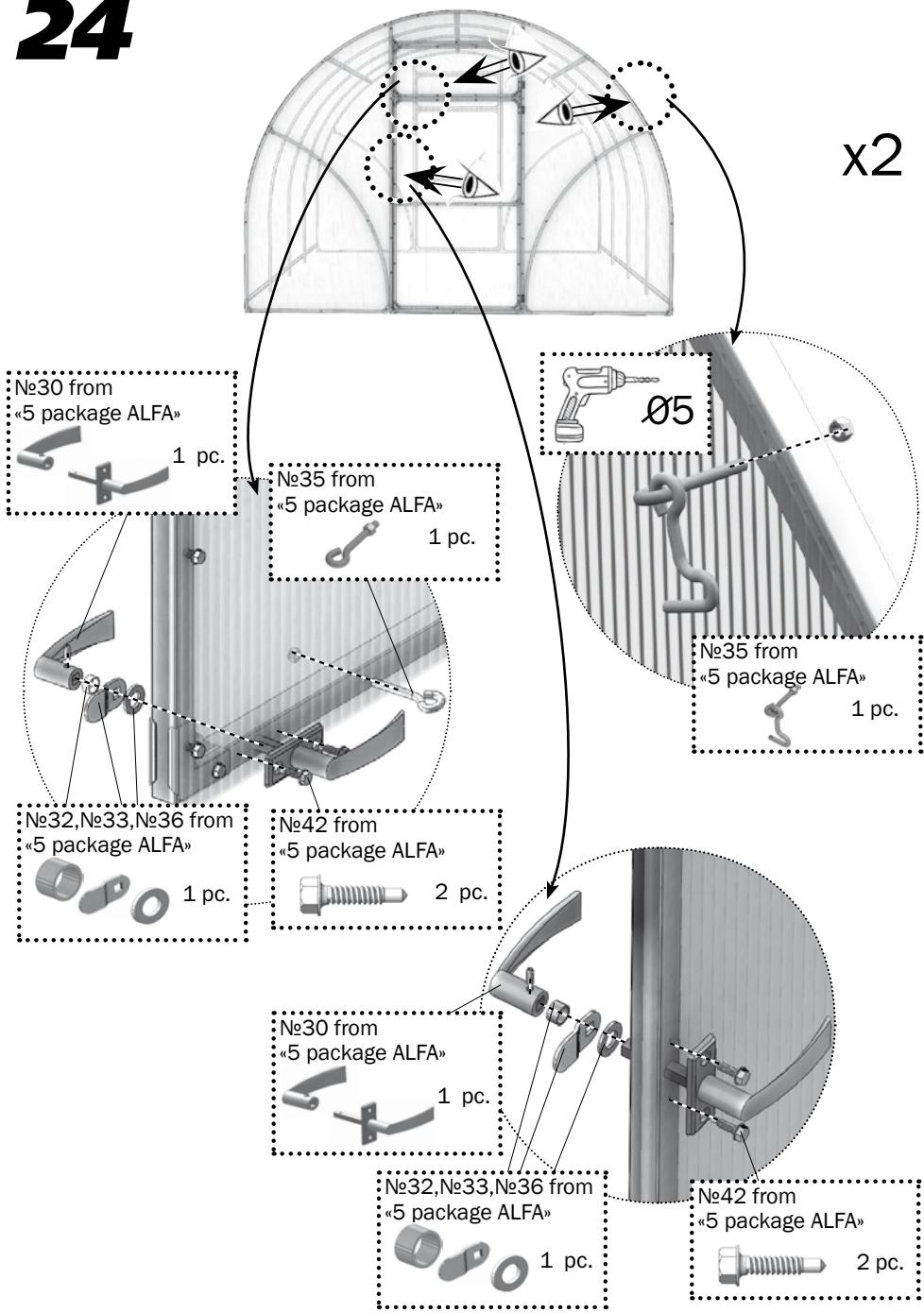


18**19**

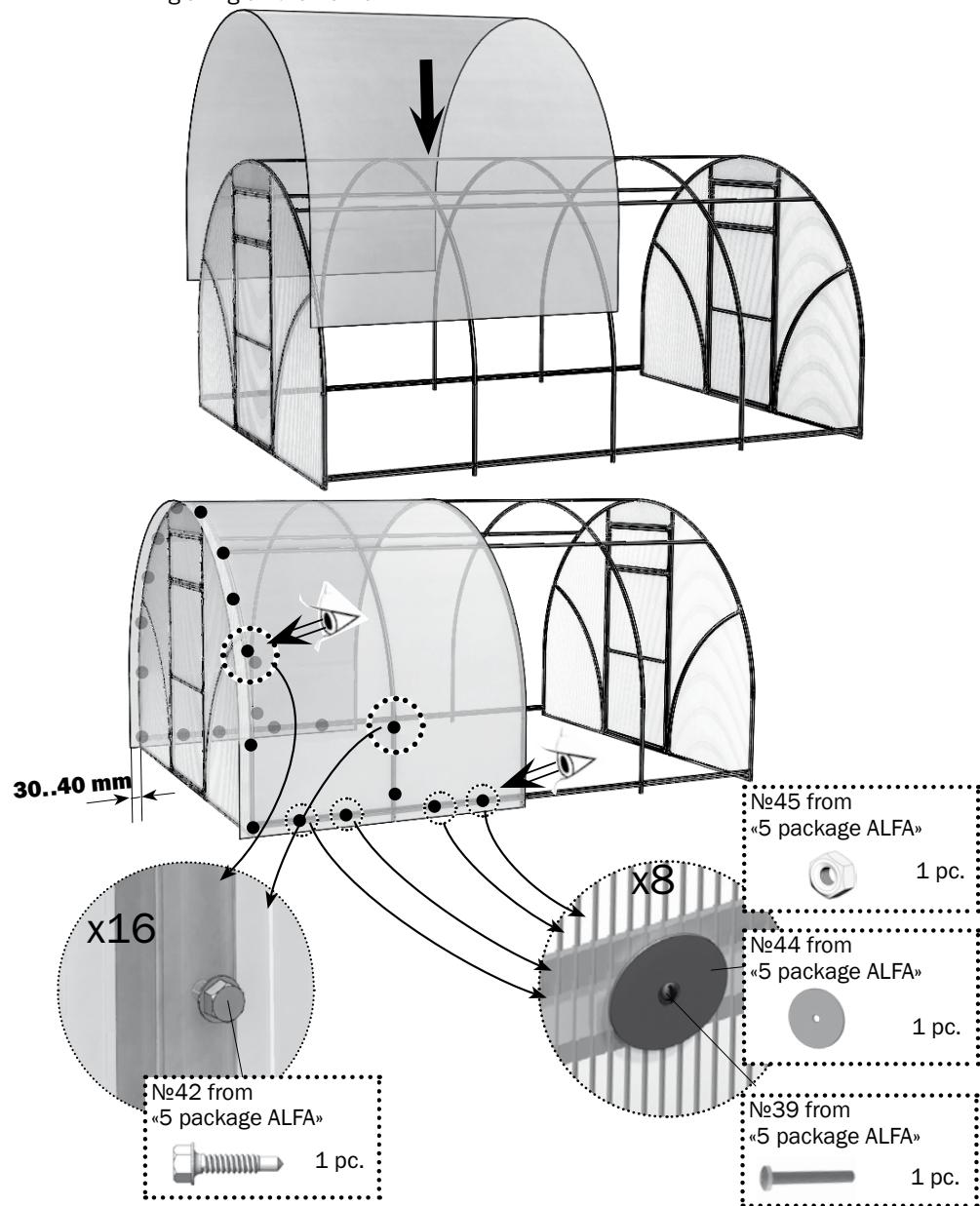
20**21****22****LENGTHENING OF THE BASE WITH THE INSERT**

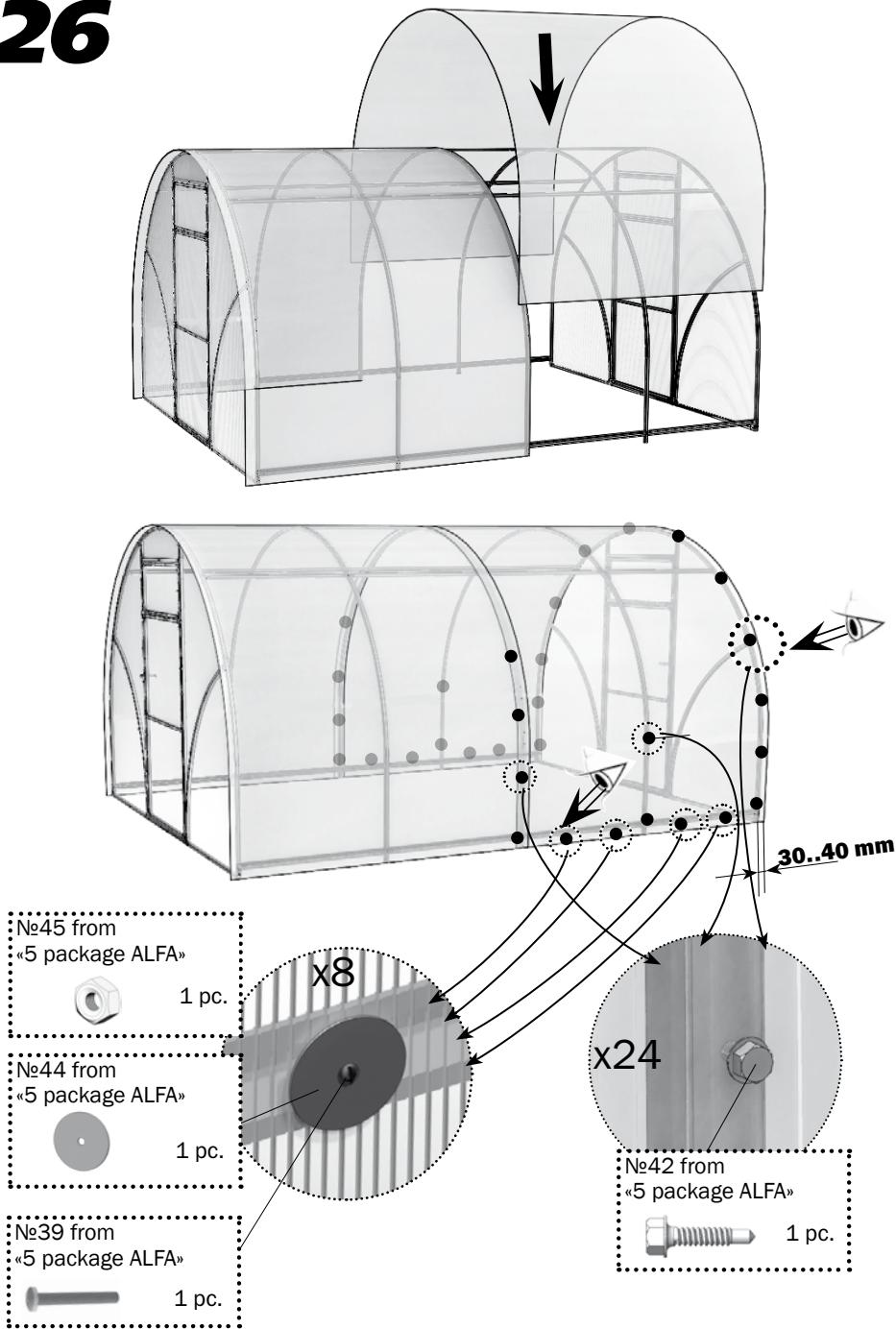
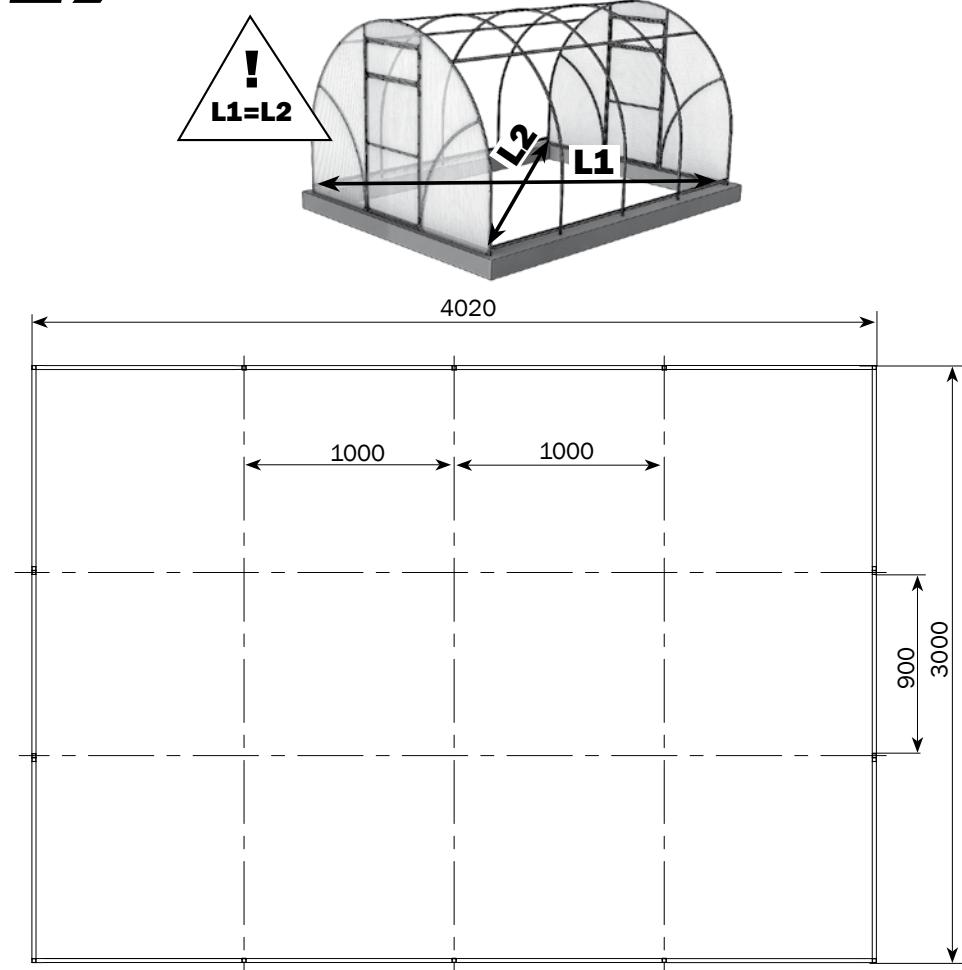
№49 from «1 package INSERT ALFA»	10 pc.	№50 from «2 package INSERT ALFA»	2 pc.	№51 from «2 package INSERT ALFA»	1 pc.
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**23**

24

25 Cellular polycarbonate panels are installed with a certain surface, which has a protective layer, outside (towards the sun). The protective layer usually has a side with the inscriptions on the transportation film. The other side of the film is transparent. Mark the protective side of the sheet in each panel because after removing the transportation film, the sides of the panel do not visually differ. The transportation film should be removed from both surfaces before fixing the glazing on the frame.



26**27****MOUNTING ON THE FOUNDATION**

28 Mounting of decorative steel lining on the doors and windows (seal). Additional kit (purchase separately).

