

Quality management system (QMS)
of LLC «Volya» is certified
for compliance with
standard of
ISO 9001:2008

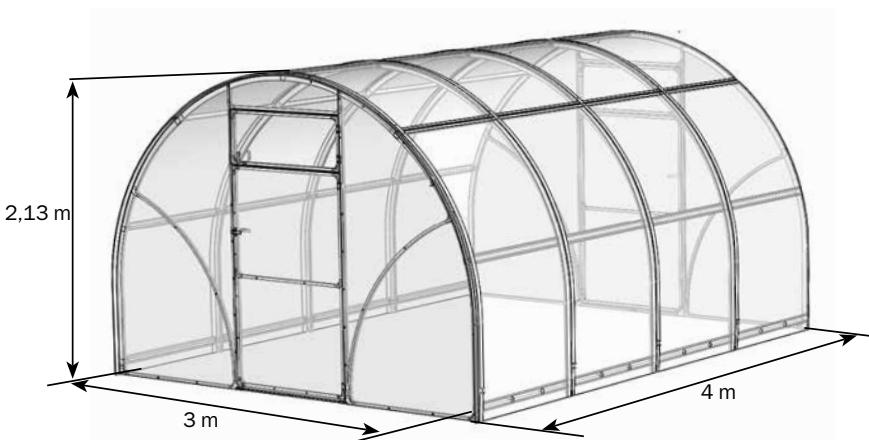


Certified by
Russian Registry



SIGMA EURO

Cellular polycarbonate greenhouse



Technical certificate

p. 2-9

Assembling manual

p. 11-43

! Perform assembling and operation of the greenhouse in strict accordance with the manual and operating rules stated in the technical certificate. Please keep this technical certificate for further reference.

Description

The greenhouse is intended to create a favorable microclimate for growing garden crops in allotments and kitchen 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. It is assembled with screws and nuts. The kit comprises everything needed for fixing the glazing. The complete set of the greenhouse includes the glazing at the request of the buyer. The standard supply set requires 3 sheets of 2.1x6 m polycarbonate 4 mm thick. For each insert there is one 2.1x6 m polycarbonate sheet.

Operation rules

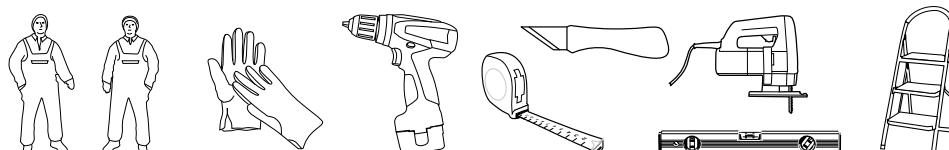
Before starting the operation, the greenhouse should be assembled and installed according to the instruction. When installing the greenhouse by third parties, the buyer should check the assembly quality for compliance with the instruction.

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 160 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 sheets of polycarbonate

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

Never use abrasives or highly alkaline cleaning compositions for cleaning polycarbonate sheets. Dry rubbing of the surface will damage the protective layer of the cladding and shorten its shelf life. Never rub the surface of polycarbonate sheets with brushes, metallic cloth or other abrasive materials.

When disinfecting the greenhouse from pathogens causing fungal and bacterial diseases, do not use «sulfur blocks» to avoid frame corrosion (blackening).

Warranty liabilities

1. The manufacturer is responsible for the completeness of the product.
2. The manufacturer is responsible for assemblability of the greenhouse in accordance with the instructions.
3. The manufacturer is responsible for the greenhouse durability in the specified weather conditions.
4. Term for making claims is 24 months from the day of purchase

Terms of warranty provisions

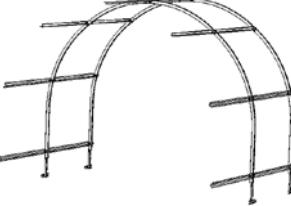
Warranty does not apply to cases of:

1. Greenhouse installation in violation of instruction requirements
2. Violation of the rules of operation.
3. Inappropriate use of the greenhouse.
4. Deformation of the greenhouse as a result of ground movement.
5. Floods, hurricanes and other natural disasters.

Production date

Manufacturing facility: LLC "Volya"
141983, Dubna, Moscow region, Severnyi per., 8.
The manufacturer is responsible for the quality of products in accordance with the RF Civil Code.
The company reserves the right to make changes in the greenhouse design

KITTING OF PARTS FOR ASSEMBLY

GREENHOUSE	BOX 1	BOX 2	BOX EXTENTION
SIGMA 3 m x 4 m BASELINE MODEL 	+ 	+ 	- 
EXTENTION FOR GREENHOUSE 2m 	- 	- 	+

STANDARD SUPPLY SET

BOX 1

Nº	marking	denomination	q-ty, pcs
1	1	Leg	10
2	1-2	End wall leg	4
3	2	Purlin	28
4	8-2	End wall corrugated connecting bar	2
5	8-1	End wall 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
16	-	Profile L=1050 mm	4
17	-	Profile L=1000 mm	4

Nº	marking	denomination	q-ty, pcs
18	y1	Door lining	2
19	y2	Door lining	2
20	y8	Door lining	2
21	y9	Door lining	2
22	y10	Window lining	2
23	y6	Window lining	2
24	y7	Window lining	2
25	y11	Window lining	2

BOX 2

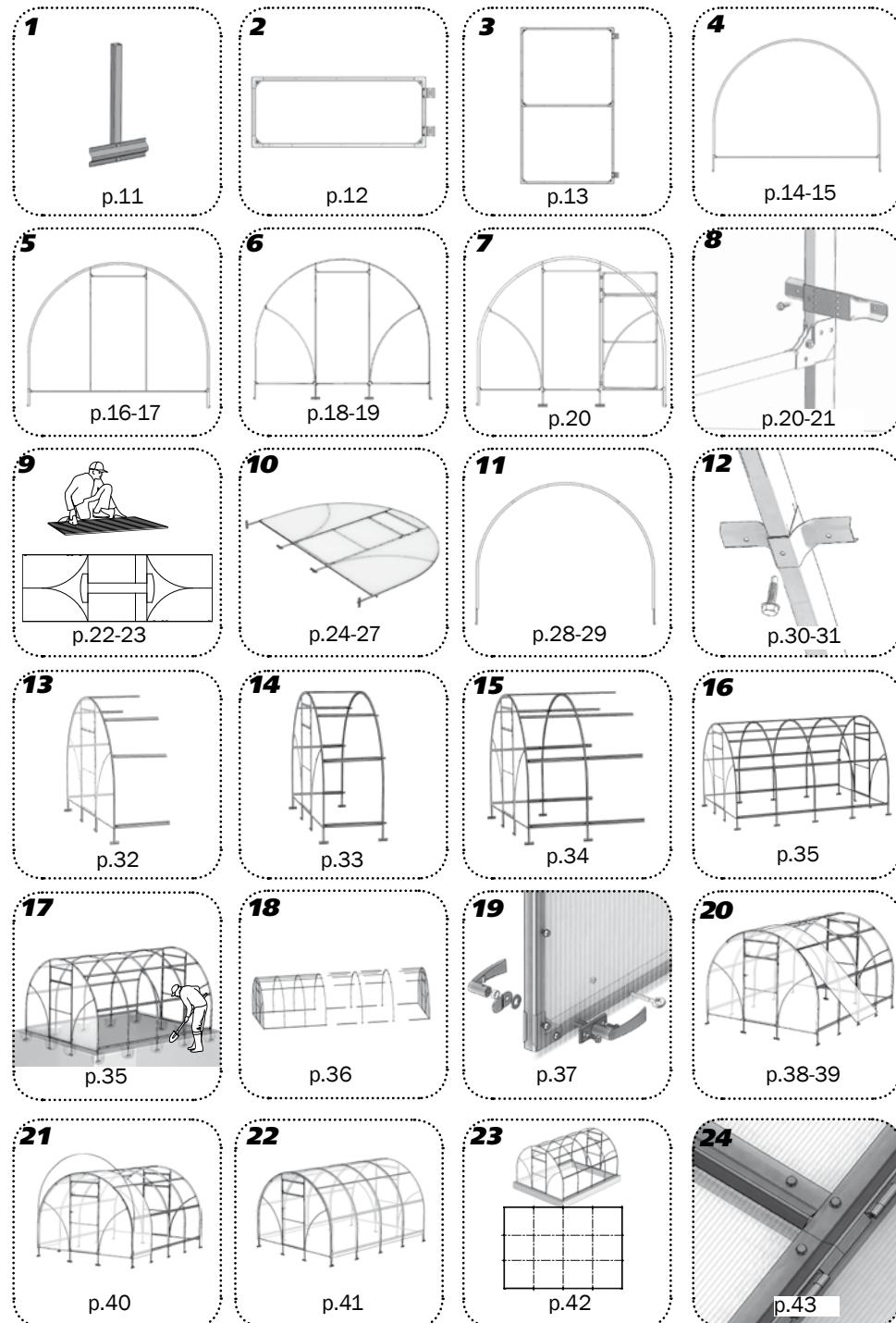
Nº	marking	denomination	q-ty, pcs
26	4T	End wall arch	4
27	4BT	Upper end wall arch	2
28	4HT	Lower end wall arch right	2
29	4HT-1	Lower end wall arch left	2
30	4B	Upper arch	3
31	4H	Lower arch	6
32	-	Inner clamp	21
33	-	Outer clamp	21
34	-	End wall clamp	14

Nº	marking	denomination	q-ty, pcs
35	-	40x20 clamp	12
36	-	40x20 clamp	12
37	-	20x20 clamp	24
38	-	20x20 angle clamp	32
39	-	Hinge	8
40	-	Handle kit	4
41	3	Support	14
42	-	Handle bushing	4
43	-	Latch	4
44	-	Stop bar	4
45	-	Door holder kit (hooks)	2
46	-	Washer 10	4
47	-	Adhesive tape	1
48	-	Double-sided tape L=10 m	1
49	-	M4x12 screw	56
50	-	M4x25 screw	16
51	-	M4x35 screw	16
52	-	M5x30 screw	36
53	-	M6x16 screw	40
54		M6x60 bolt	10

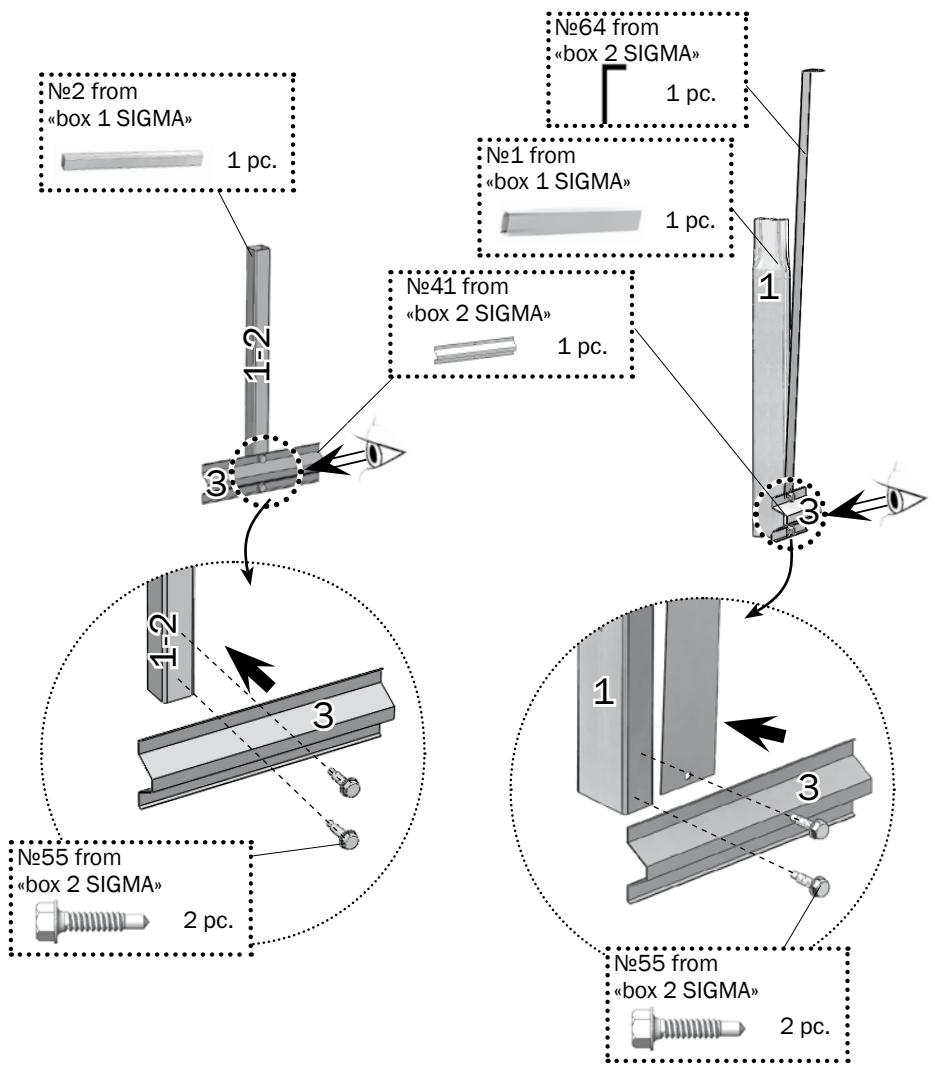
55	-	4.8x19 self drilling screw		275
56	-	4.8x11 sharp-tipped screw		4
57	-	32x4 washer		16
58	-	M4 nut		88
59	-	M5 nut		40
60	-	M6 nut		50
61	-	6 washer		20
62		5 washer		160
63	-	Top metal fastening band		5
64	-	Bottom metal fastening band		10

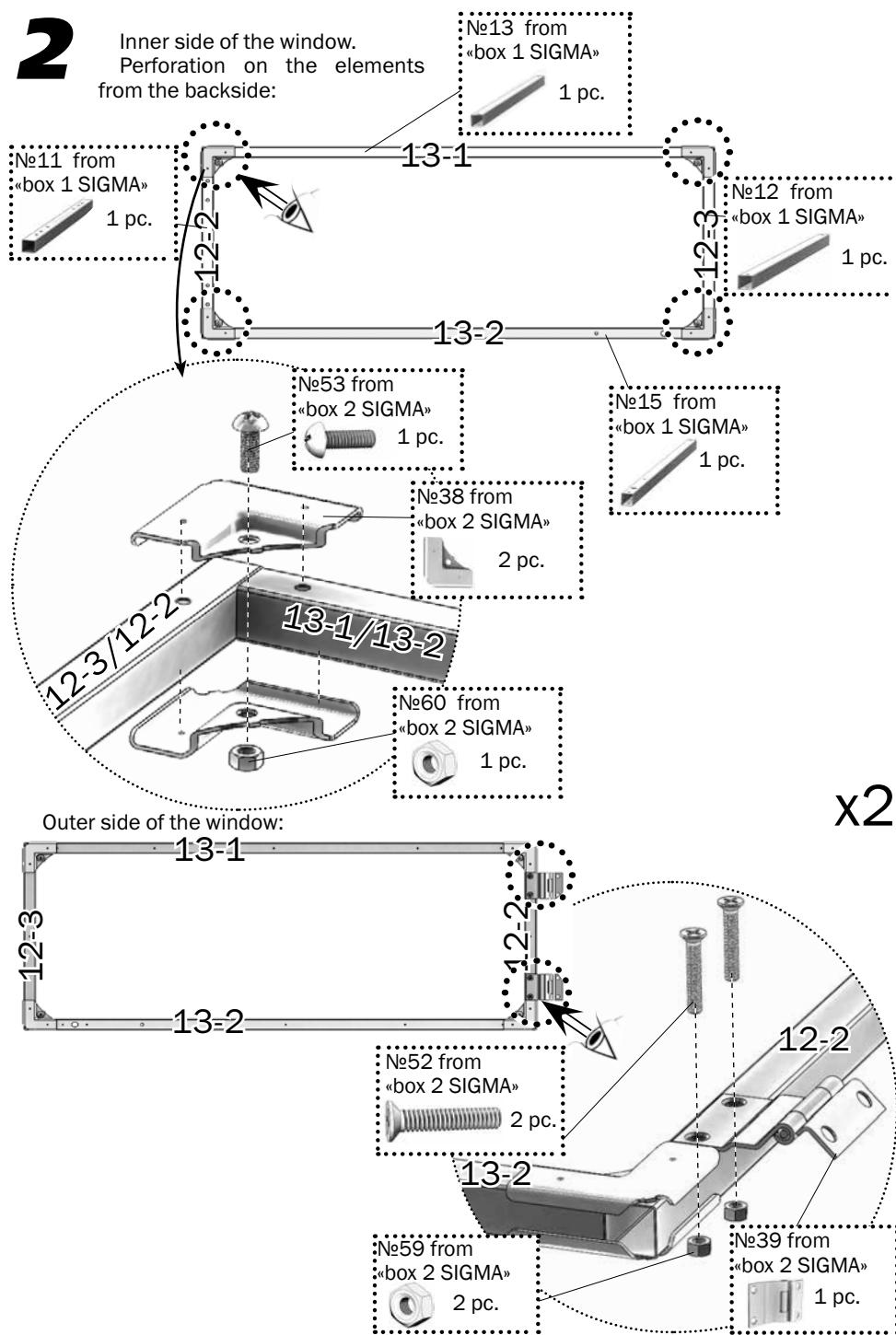
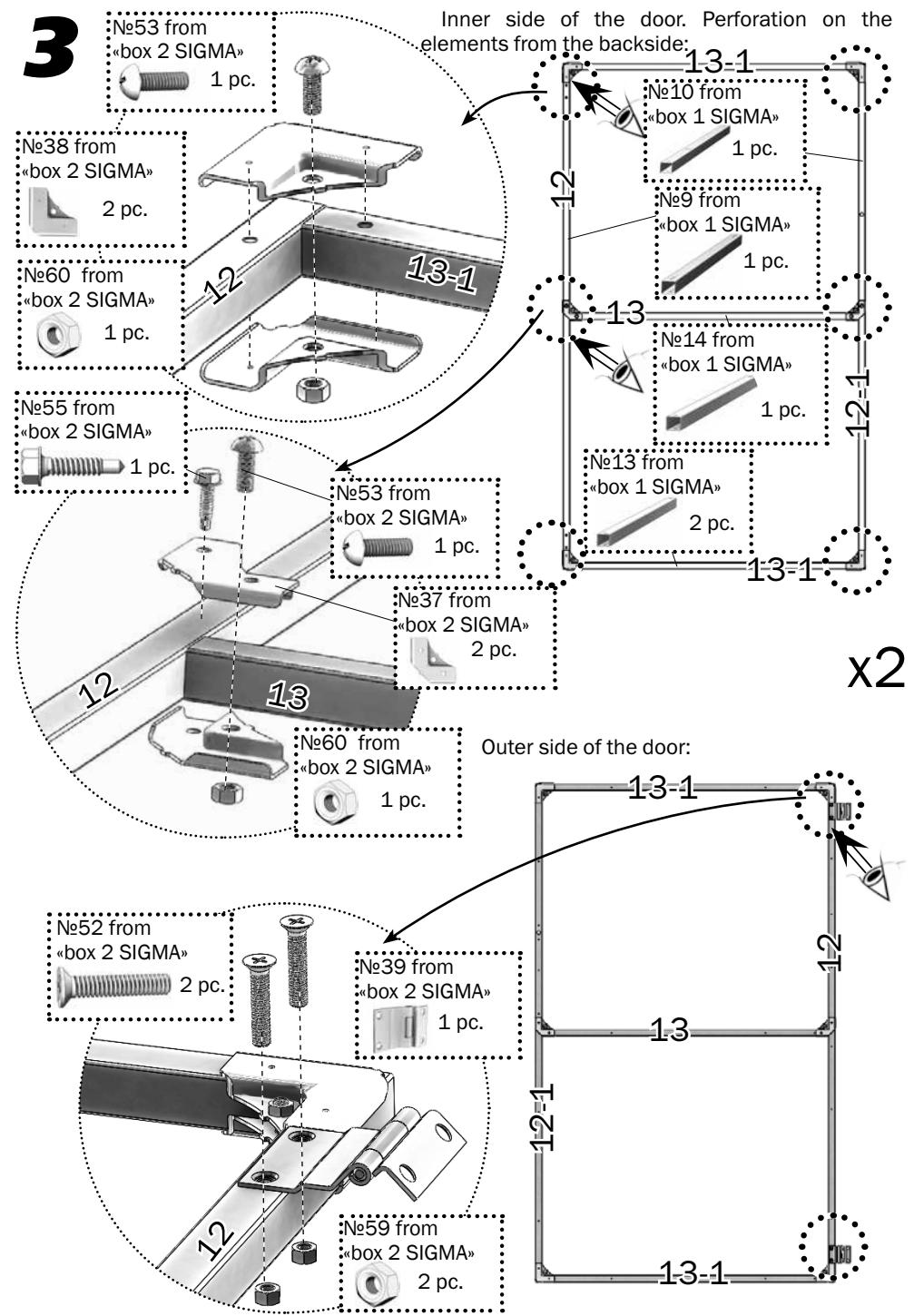
BOX EXTENTION

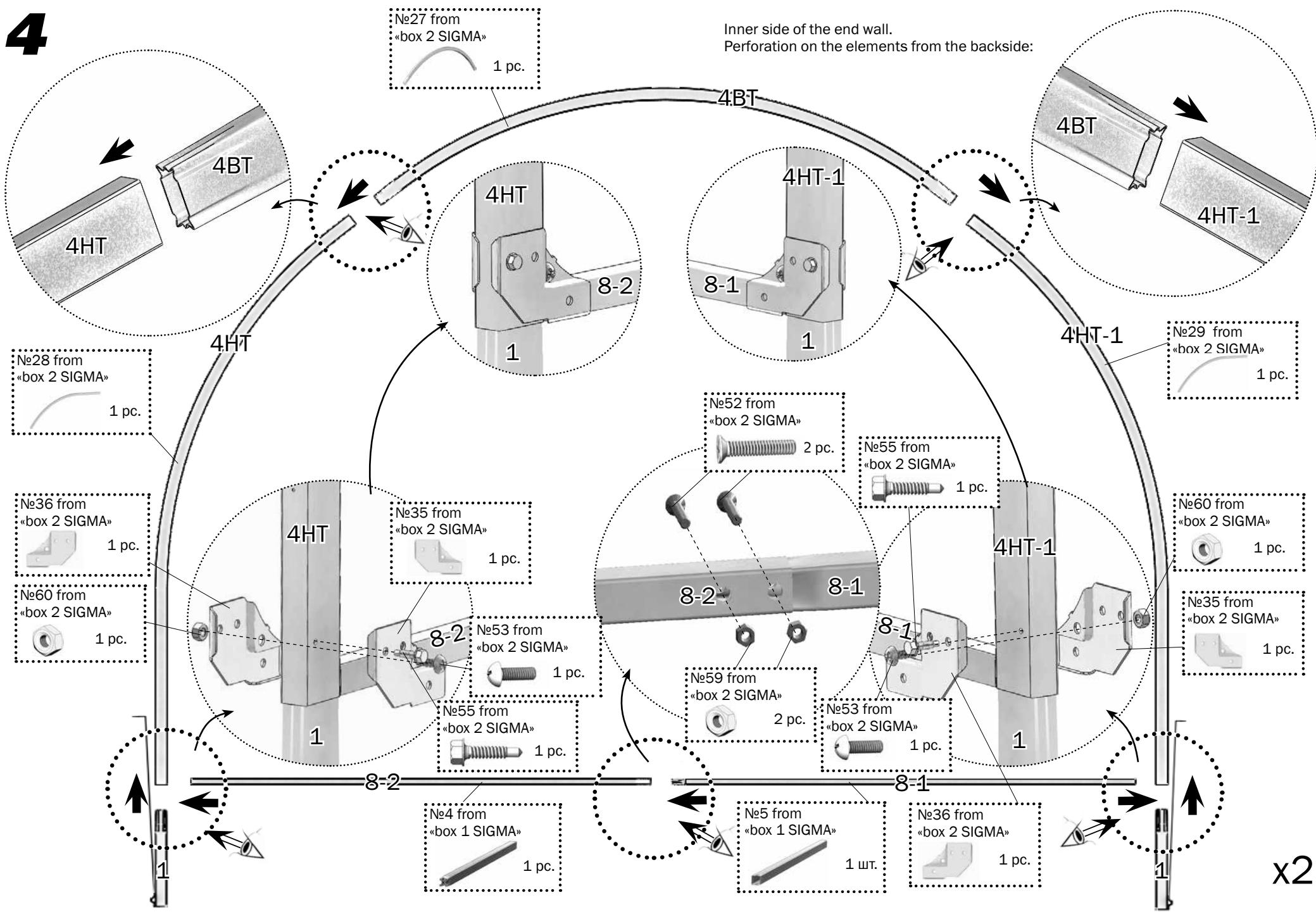
Nº	marking	denomination	q-ty, pcs
65	4B	Upper arch	
66	4H	Lower arch	
67	1	Leg	
68	2	Purlin	
69	3	Support	
70	-	Inner clamp	
71	-	Outer clamp	
72	-	M4x12 screw	
73		M4x25 screw	
74	-	M4x35 screw	
75		M6x60 bolt	
76	-	M4 nut	
77		M6 nut	
78	-	32x4 washer	
79	-	4.8x19 self drilling screw 4,8x19	
80	-	6 washer	
81	-	Top metal fastening band	
82	-	Bottom metal fastening band	
83	-	Profile L-1000 mm	

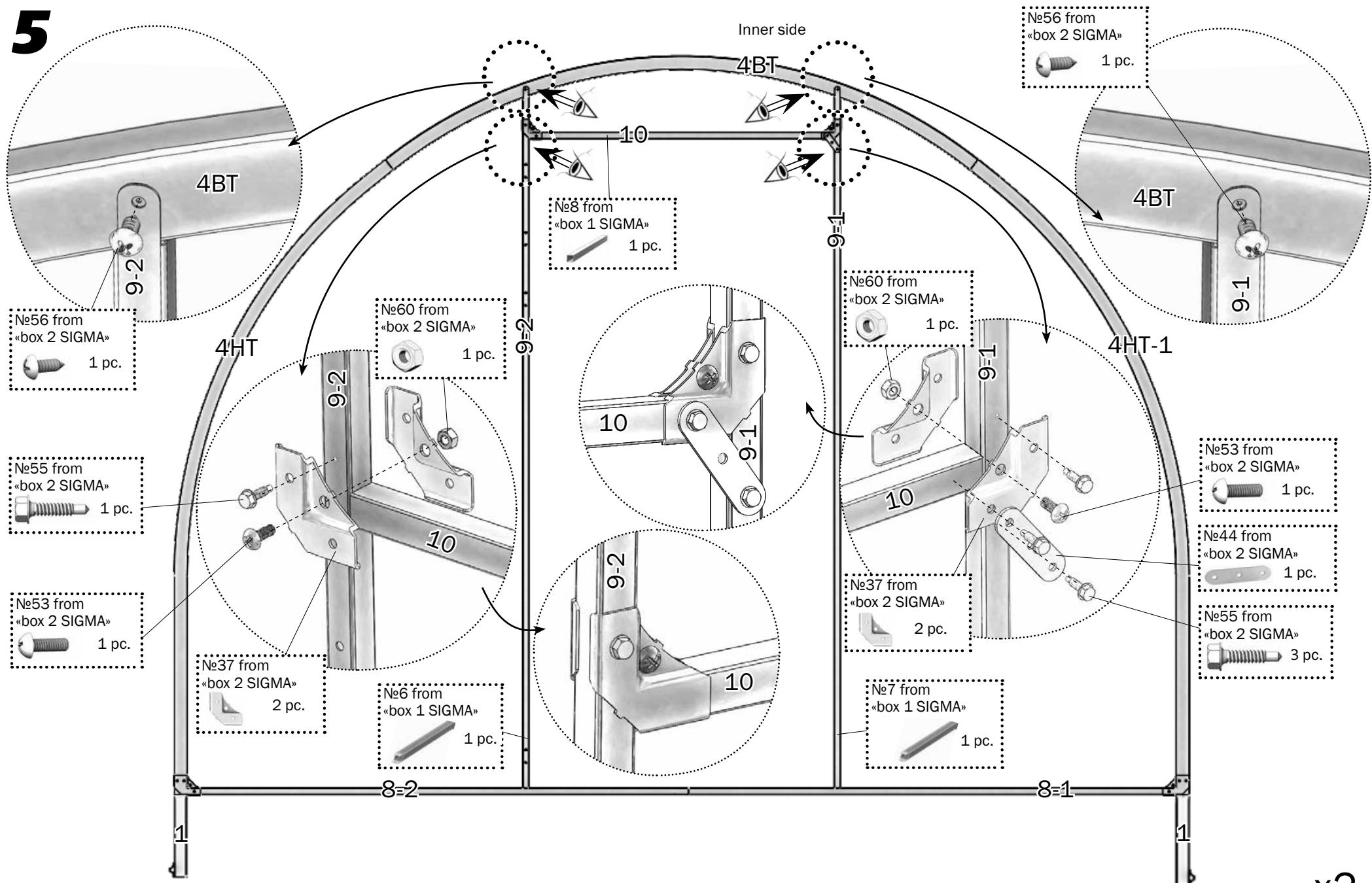


1 If the greenhouse is mounted on a foundation (see para.23), the elements **1** and **3** are not assembled and are not mounted in the subsequent assembly.

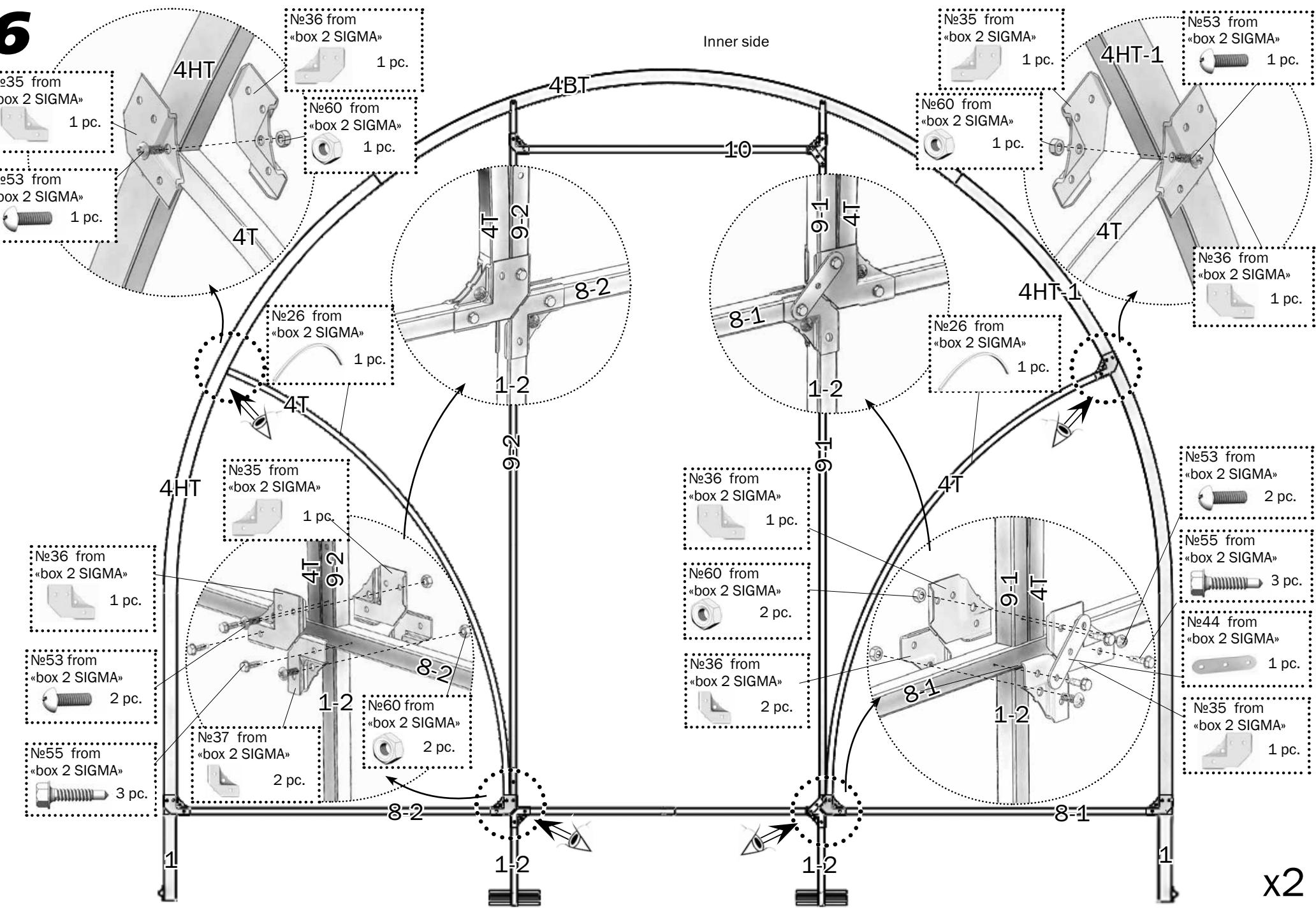


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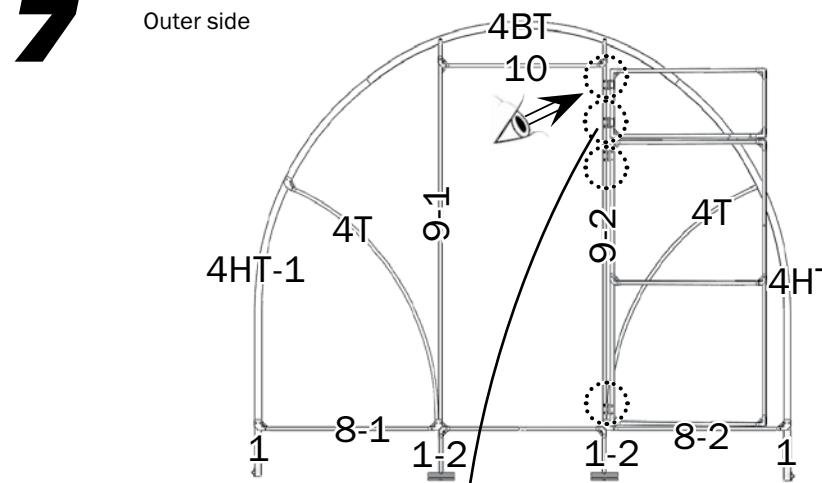
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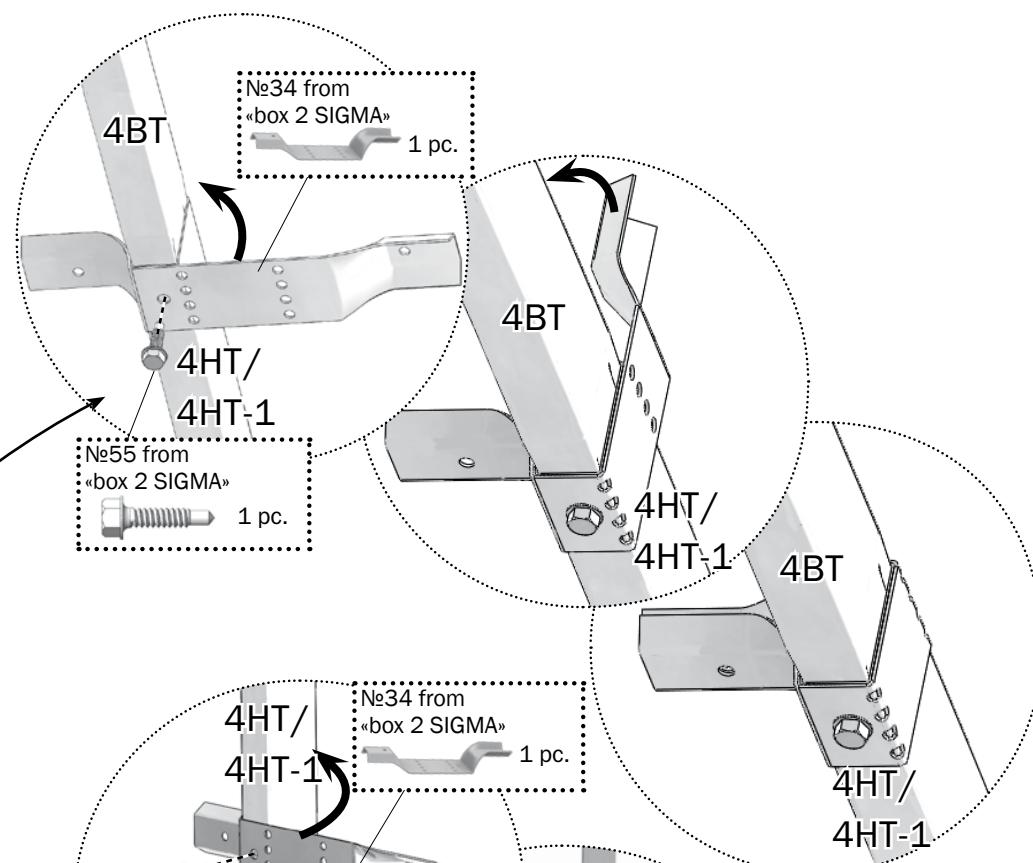


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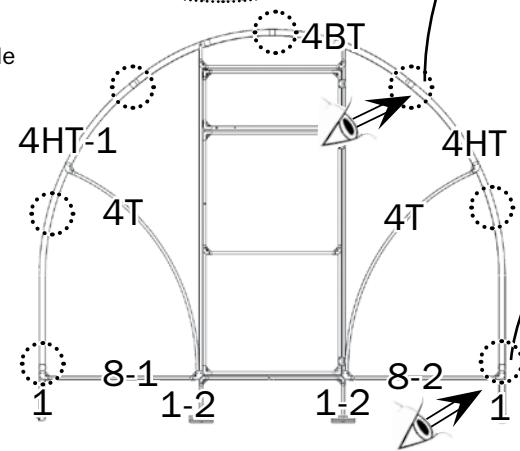
Outer side



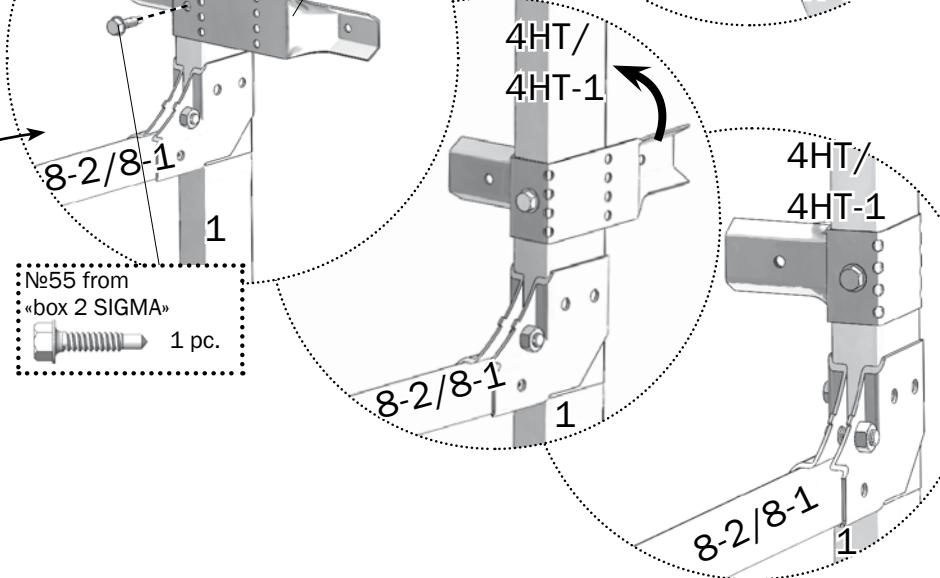
x2

**8**

Outer side

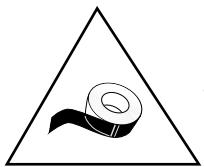


x2

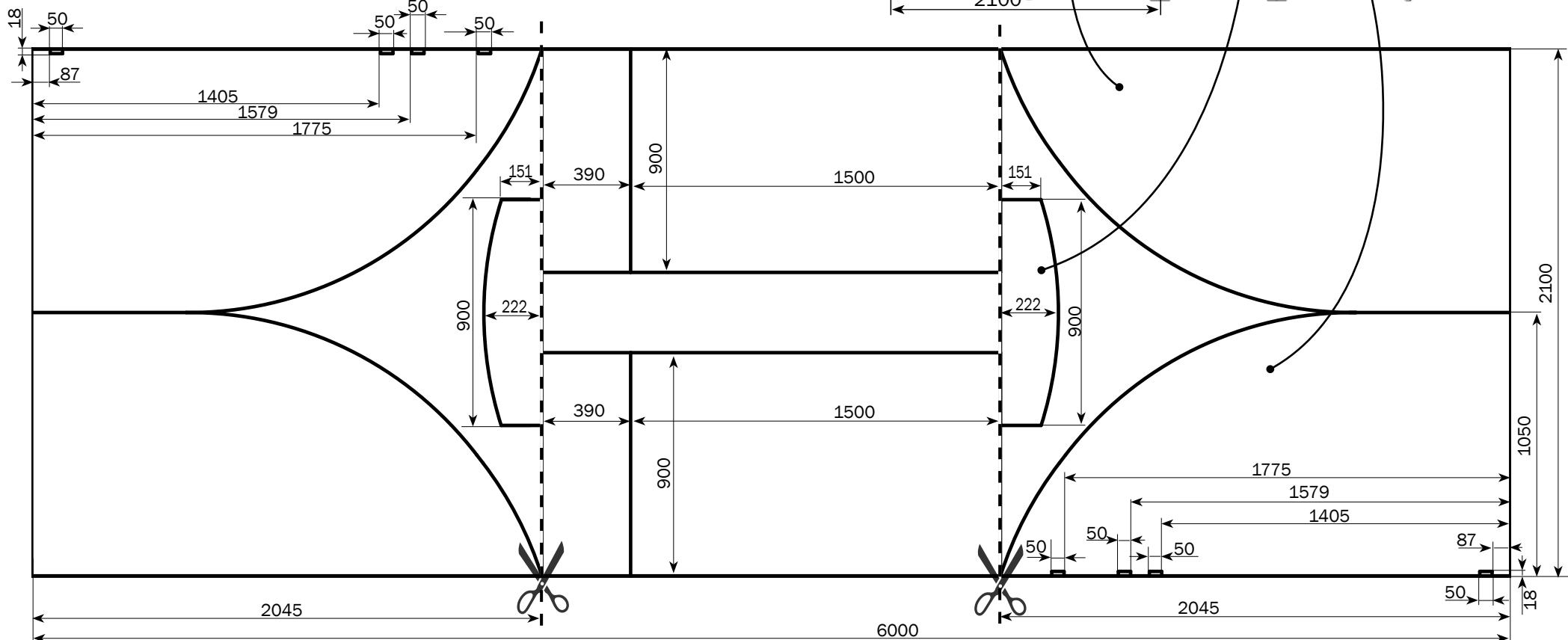


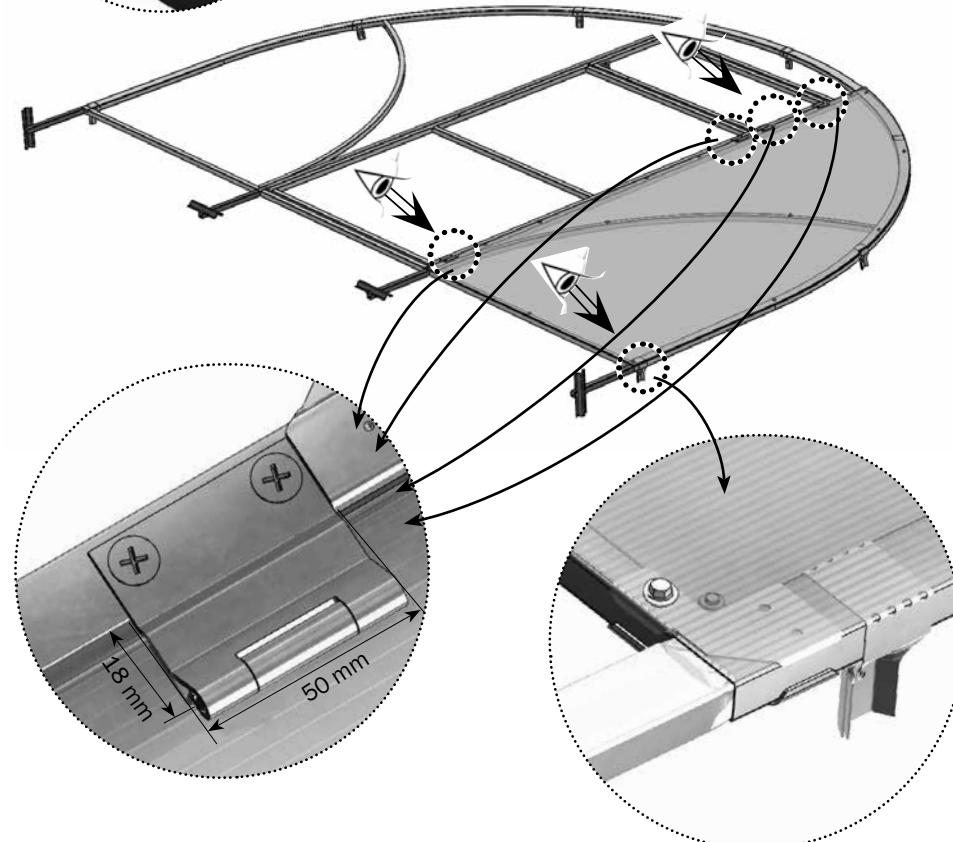
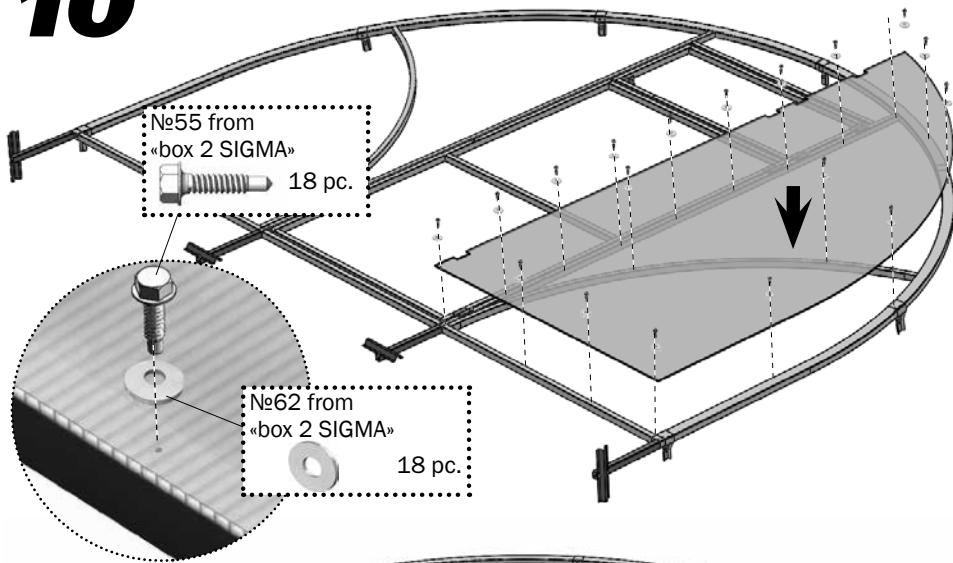
9

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.

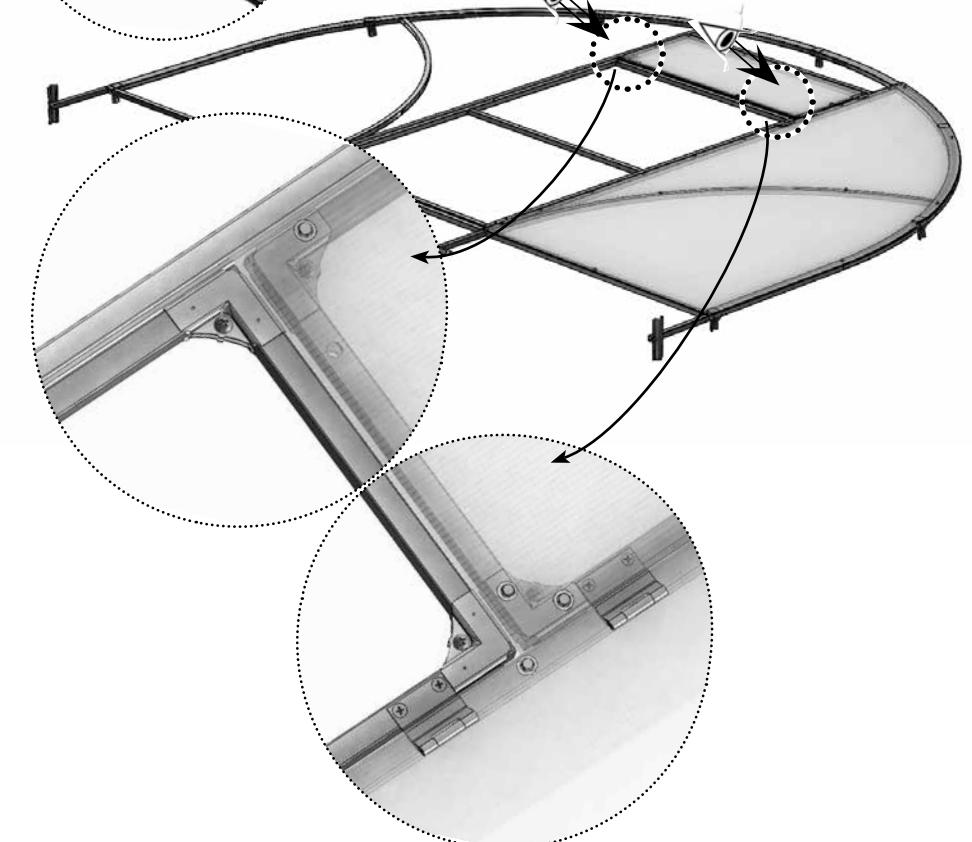
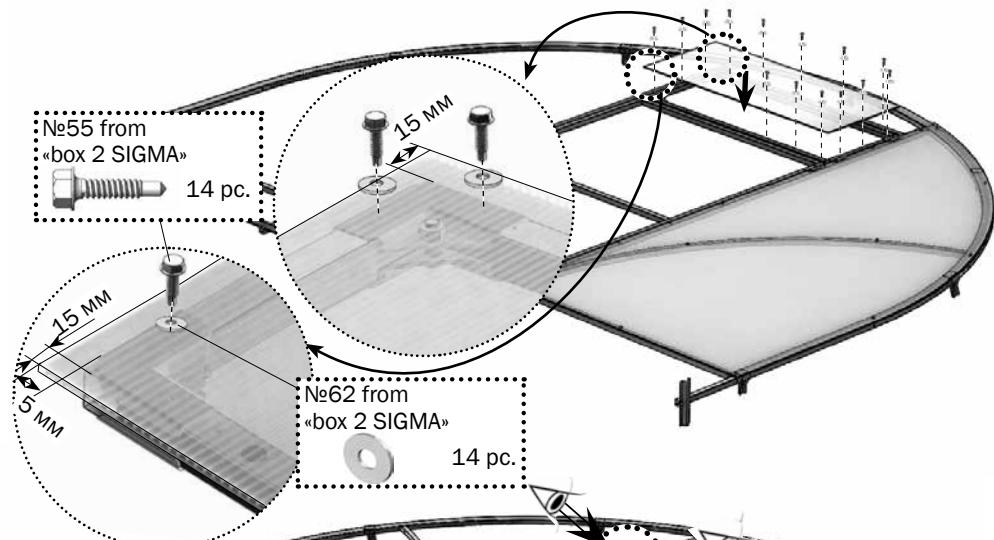


It is necessary to stick the adhesive tape over the open polycarbonate shearing surfaces

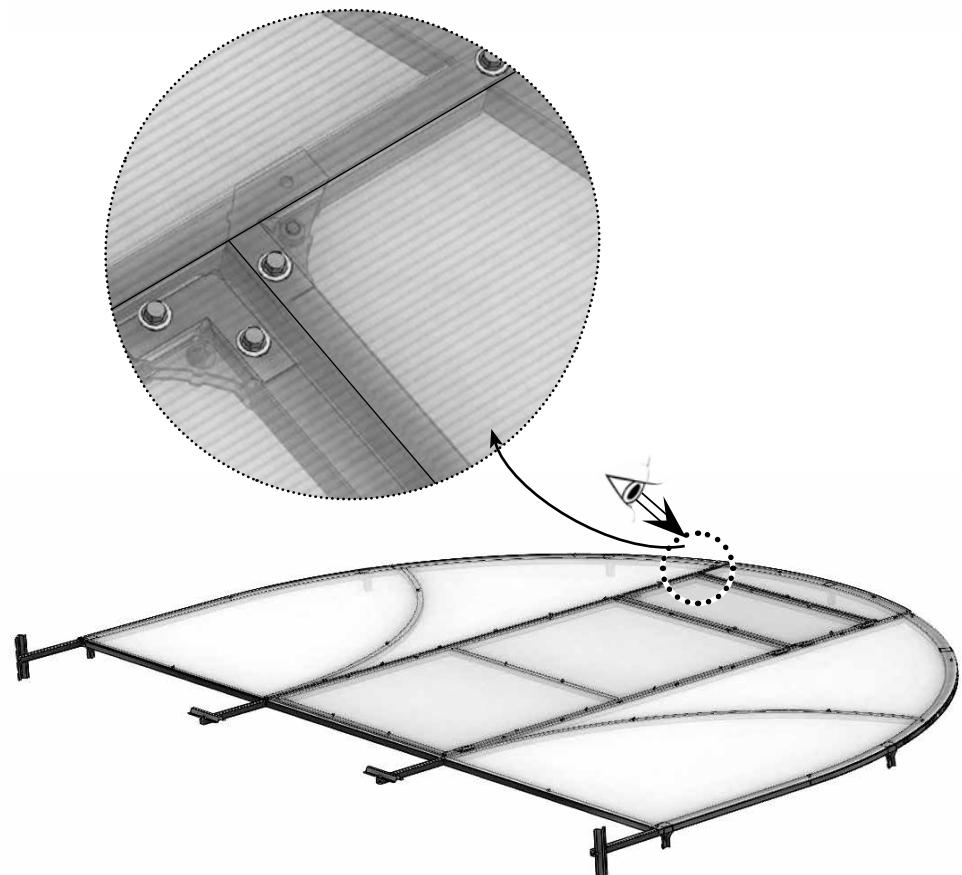
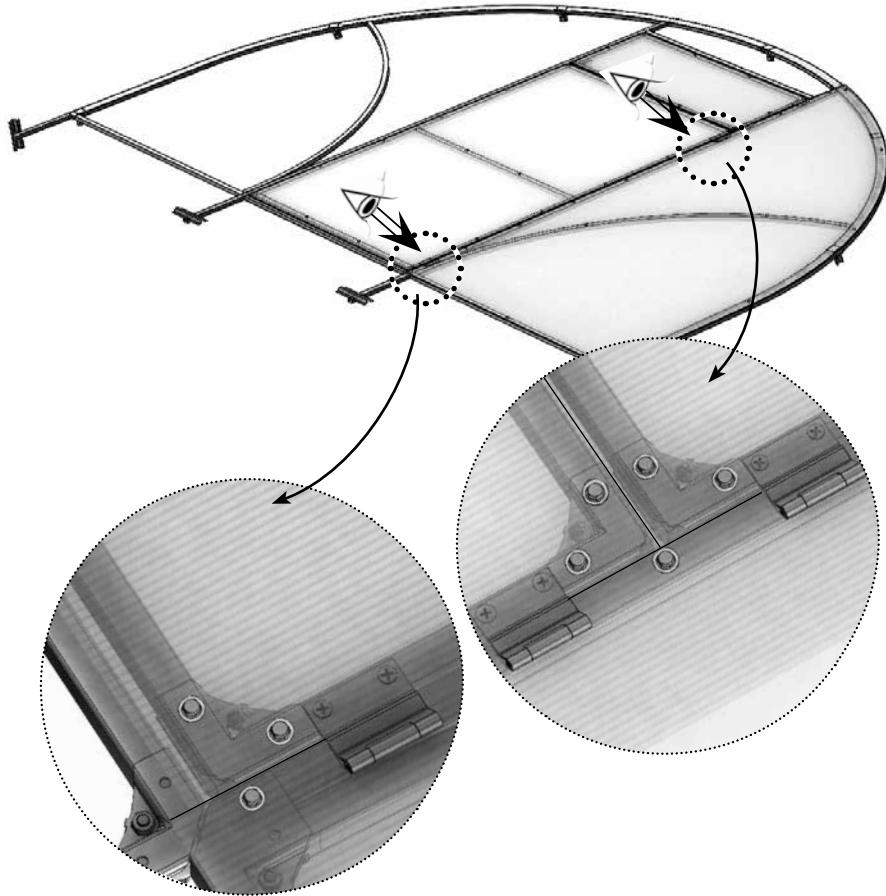
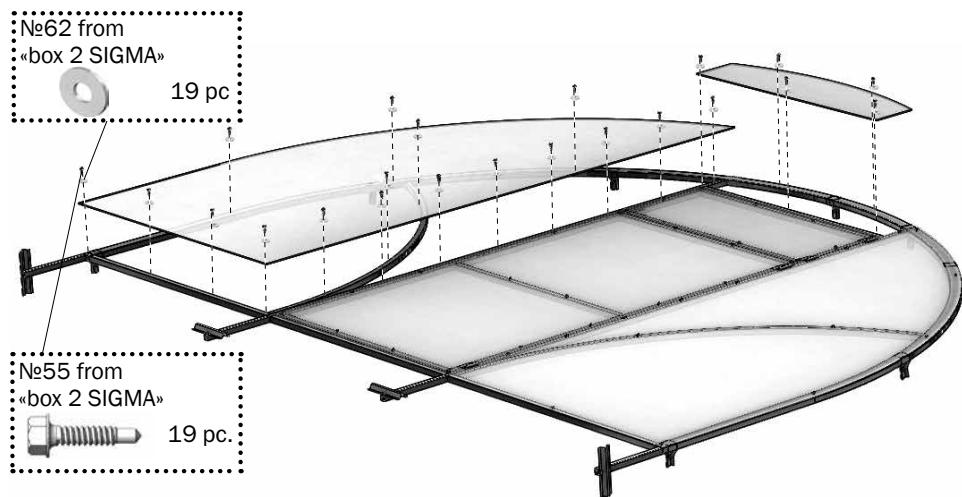
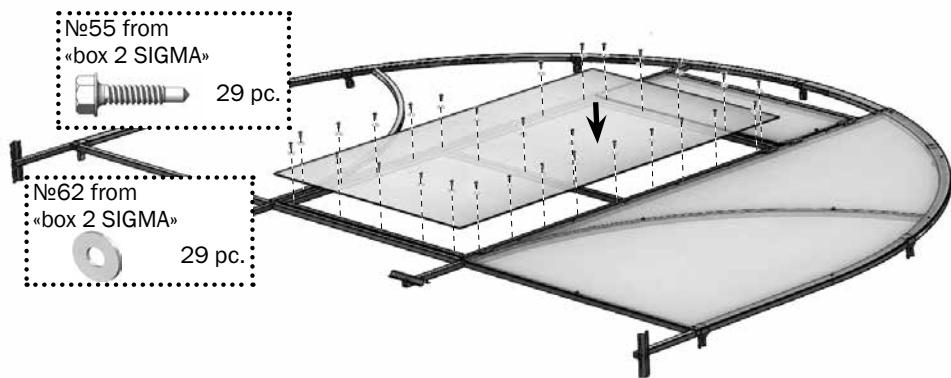


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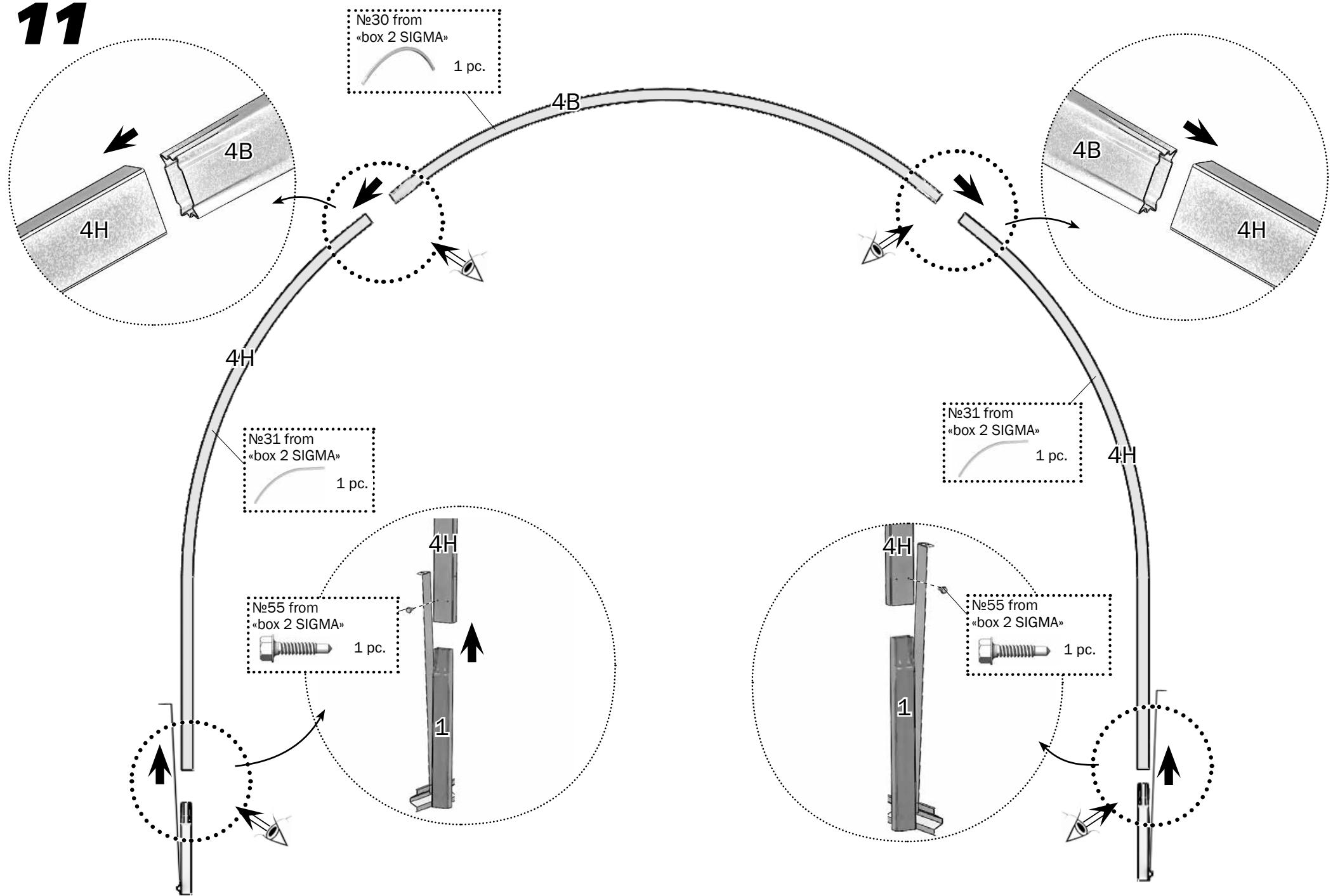
In case the decorative steel lining (seal) from the additional kit is installed on the doors and windows see para.24

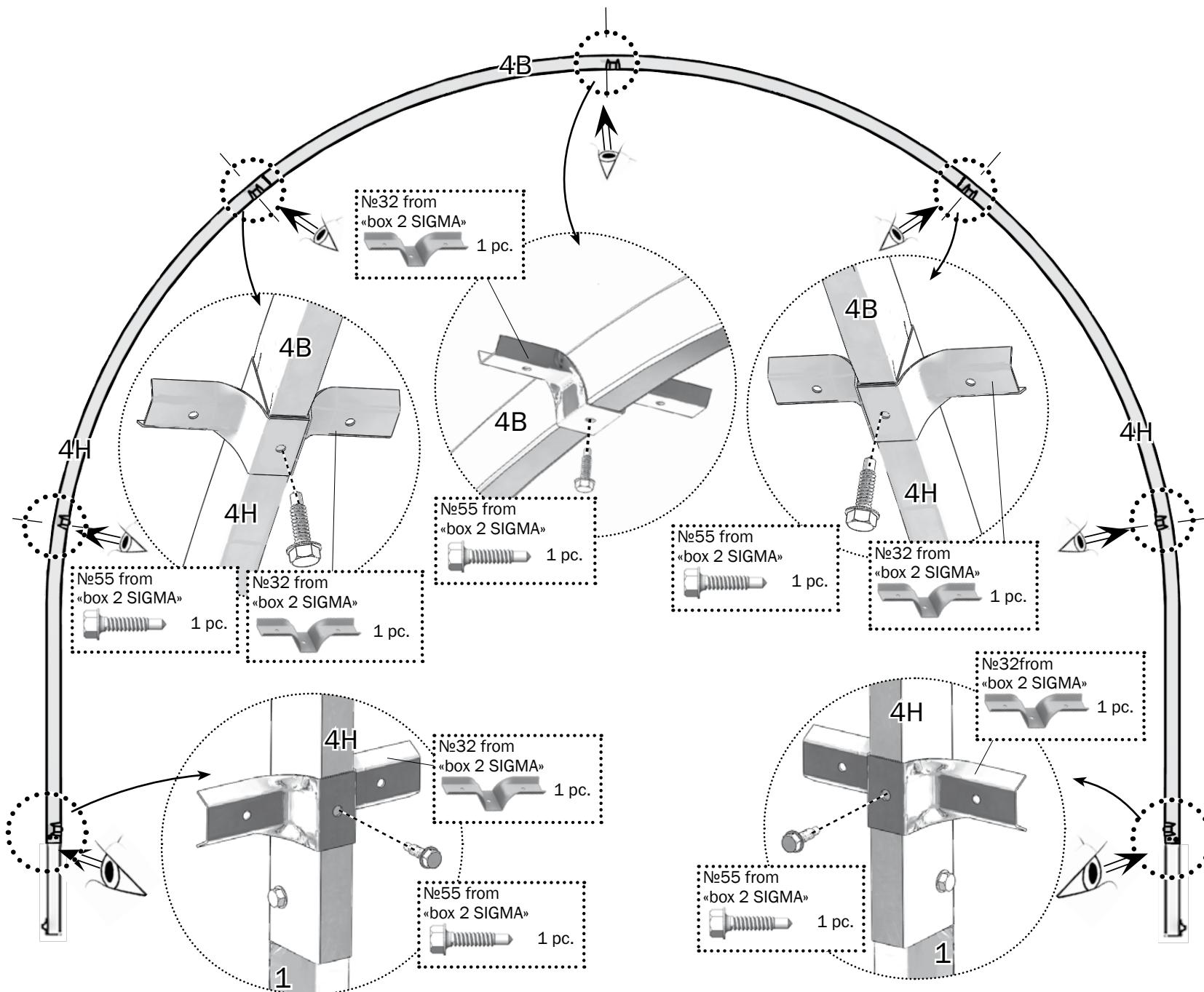


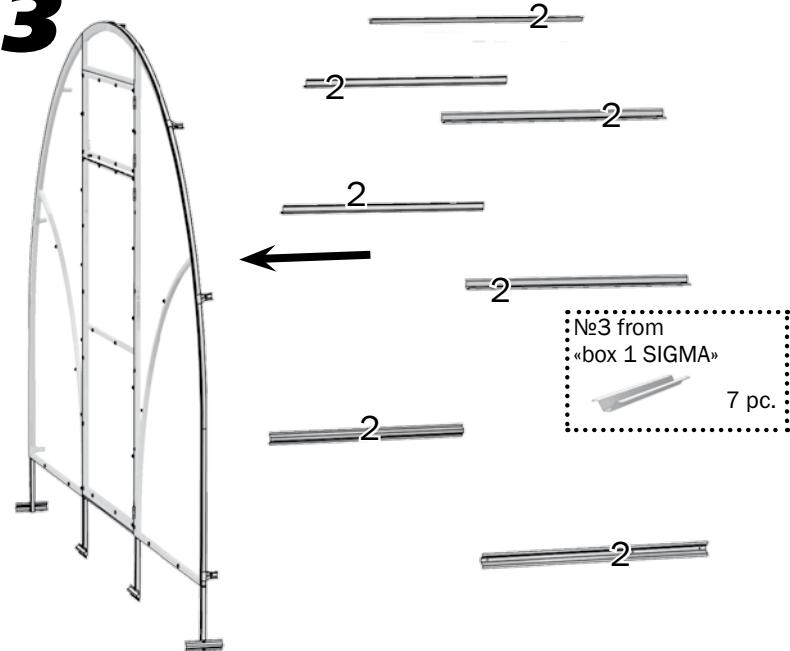
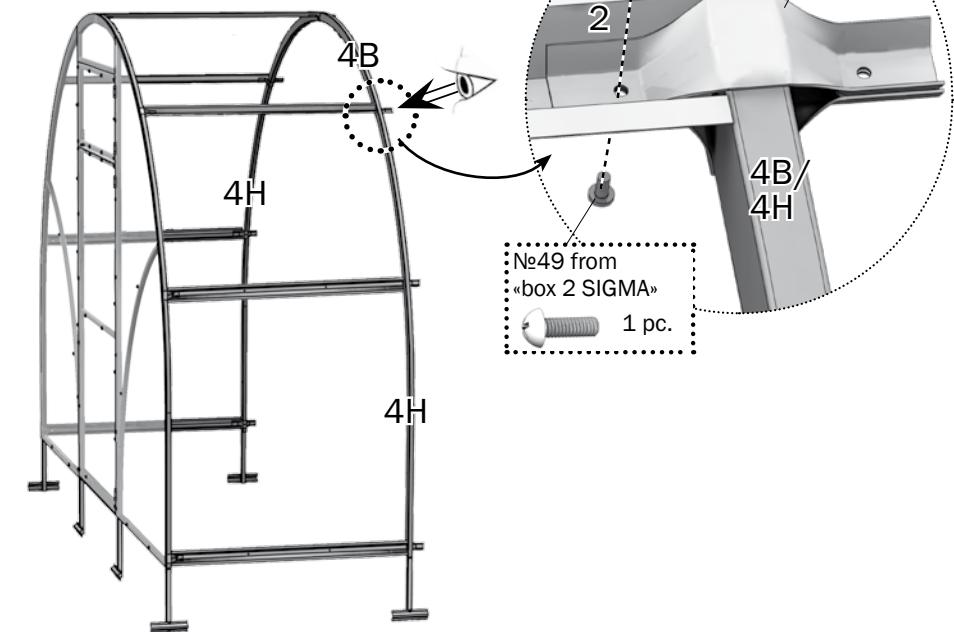
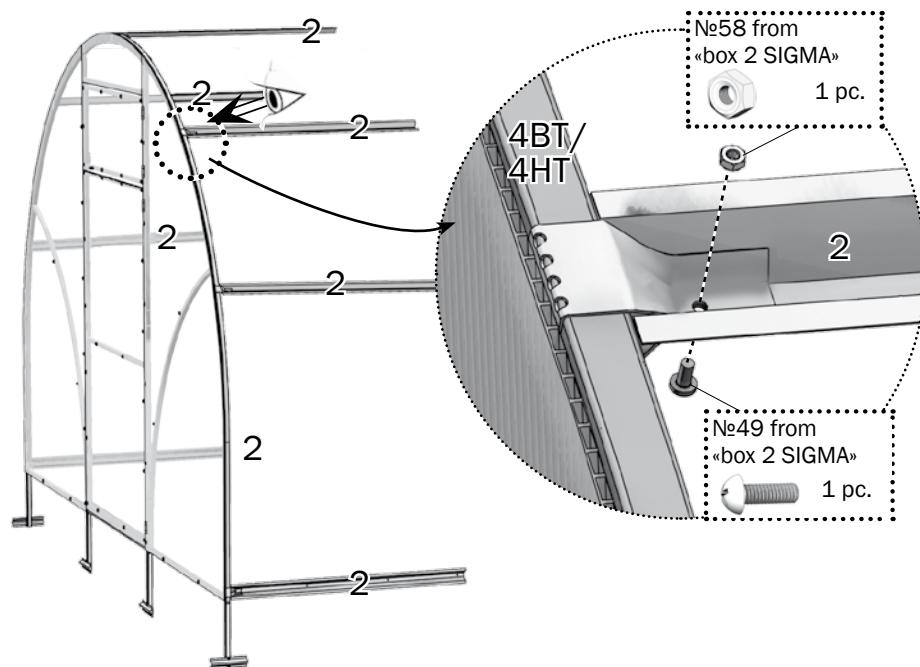
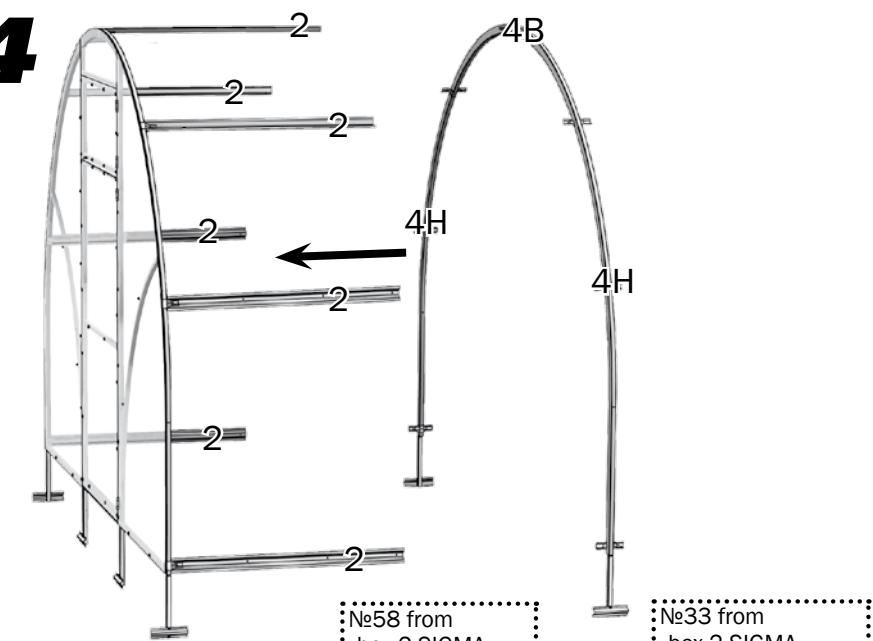
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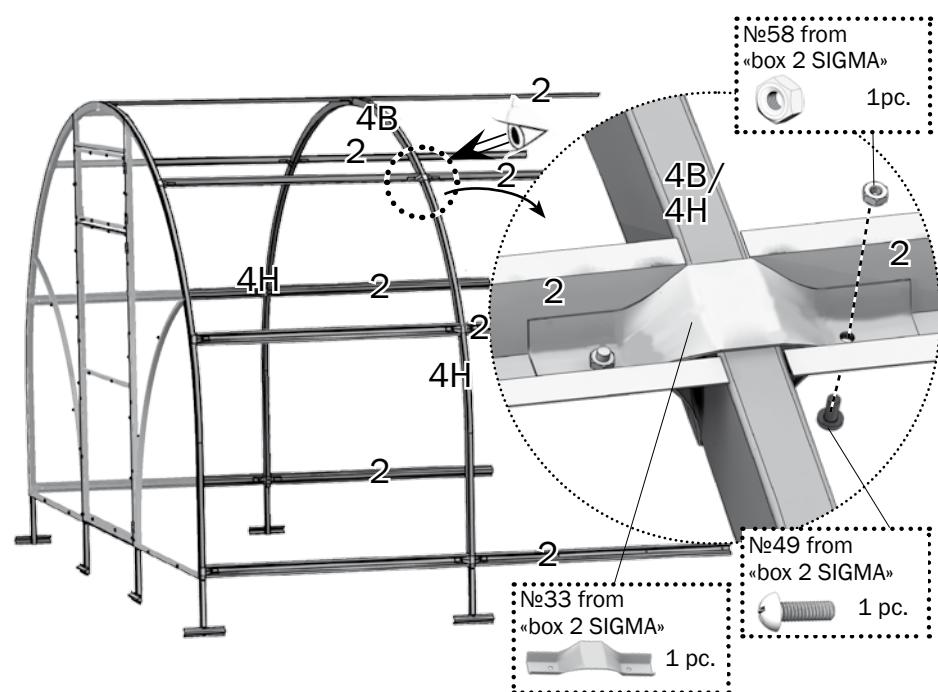
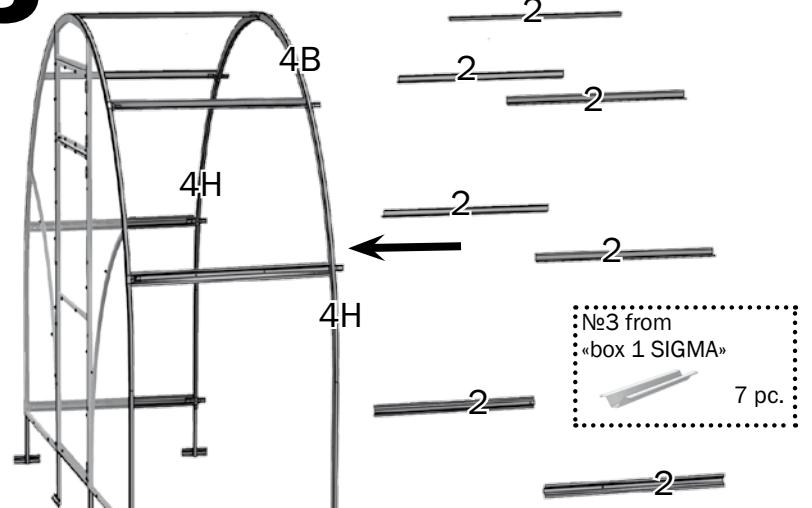
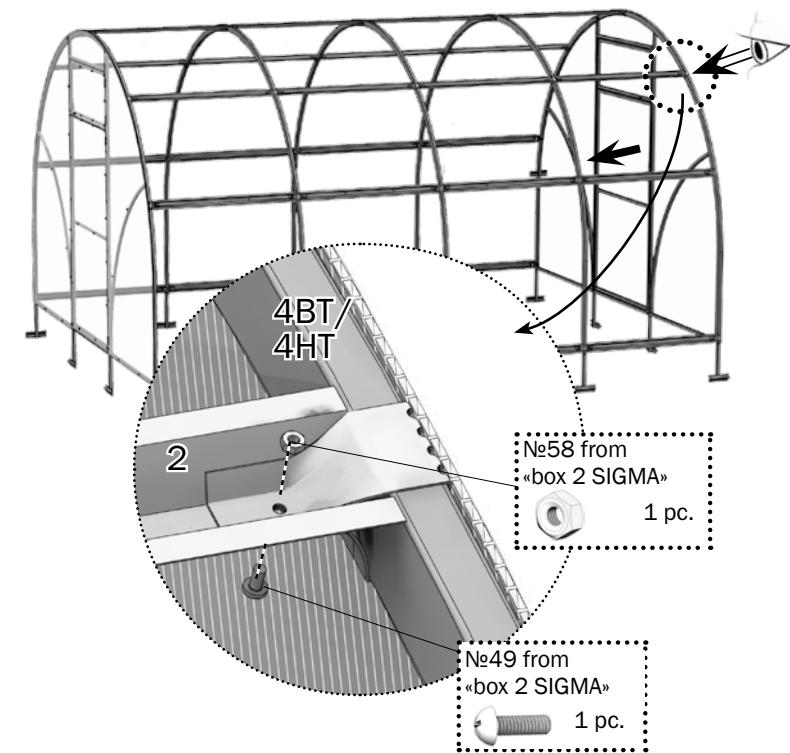
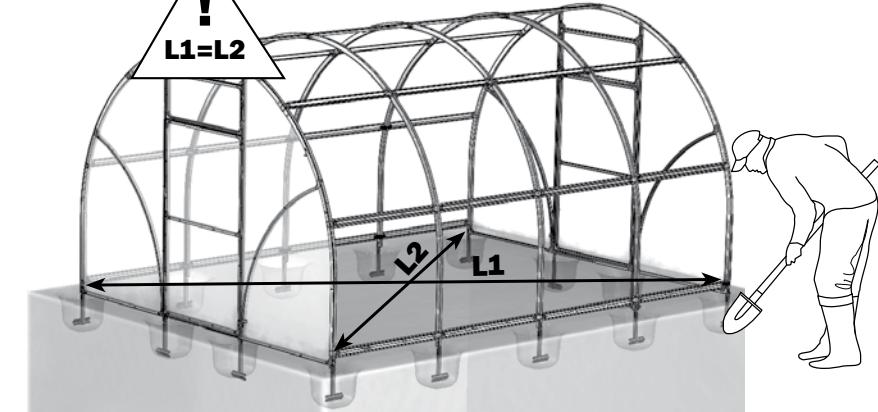


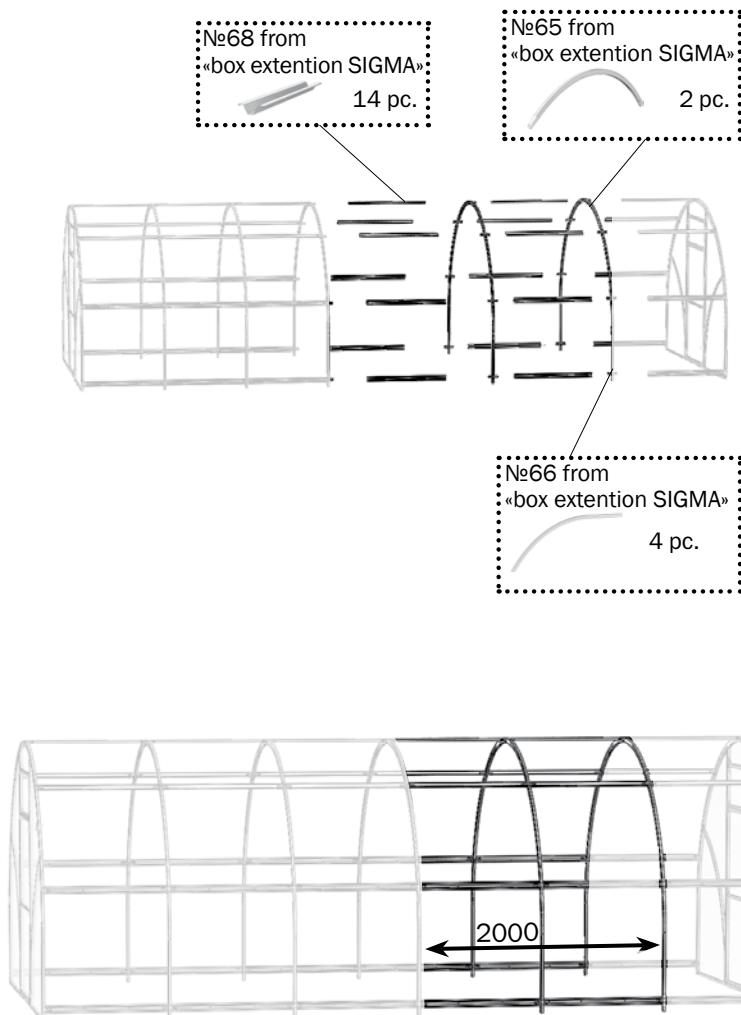
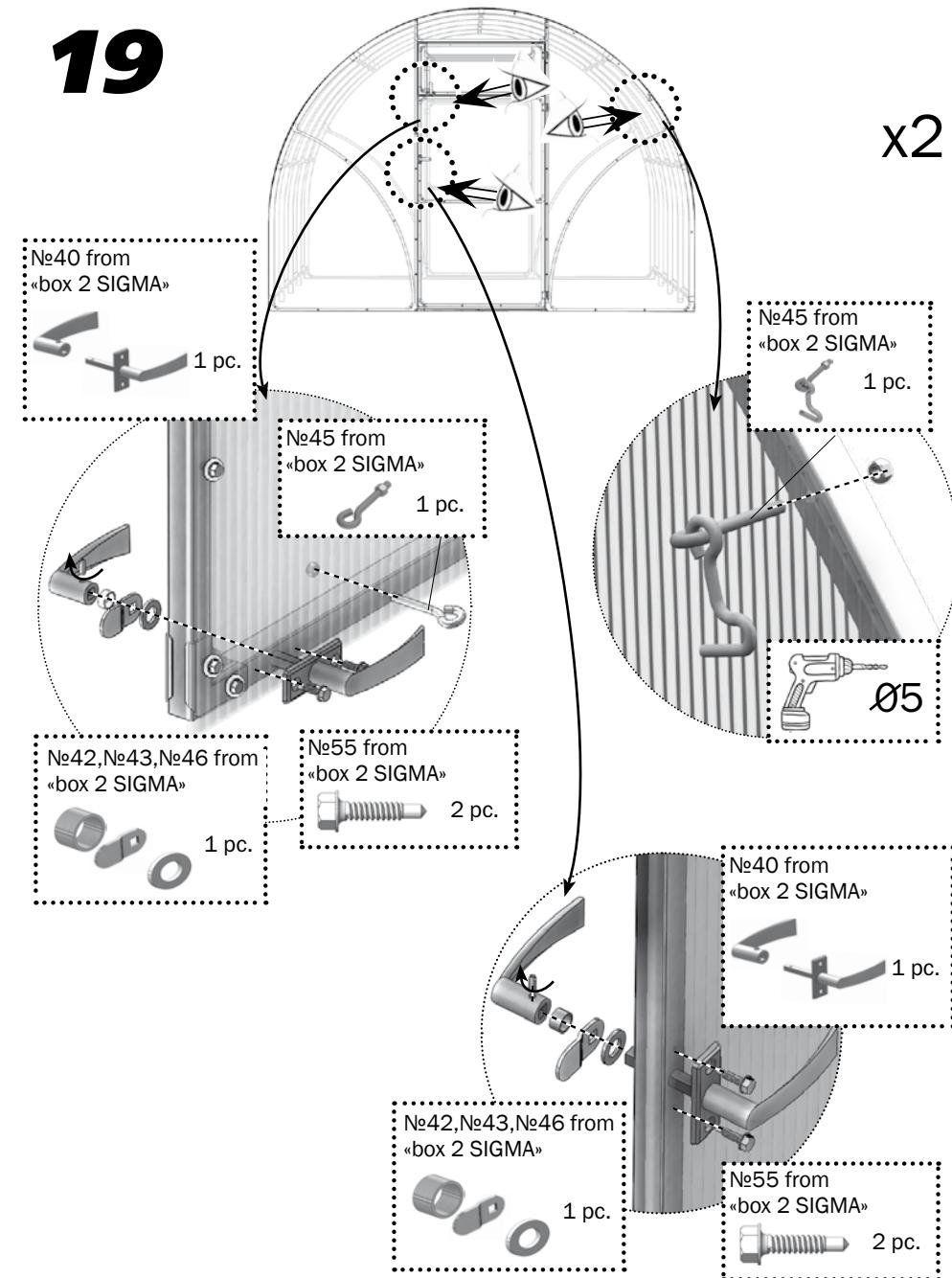
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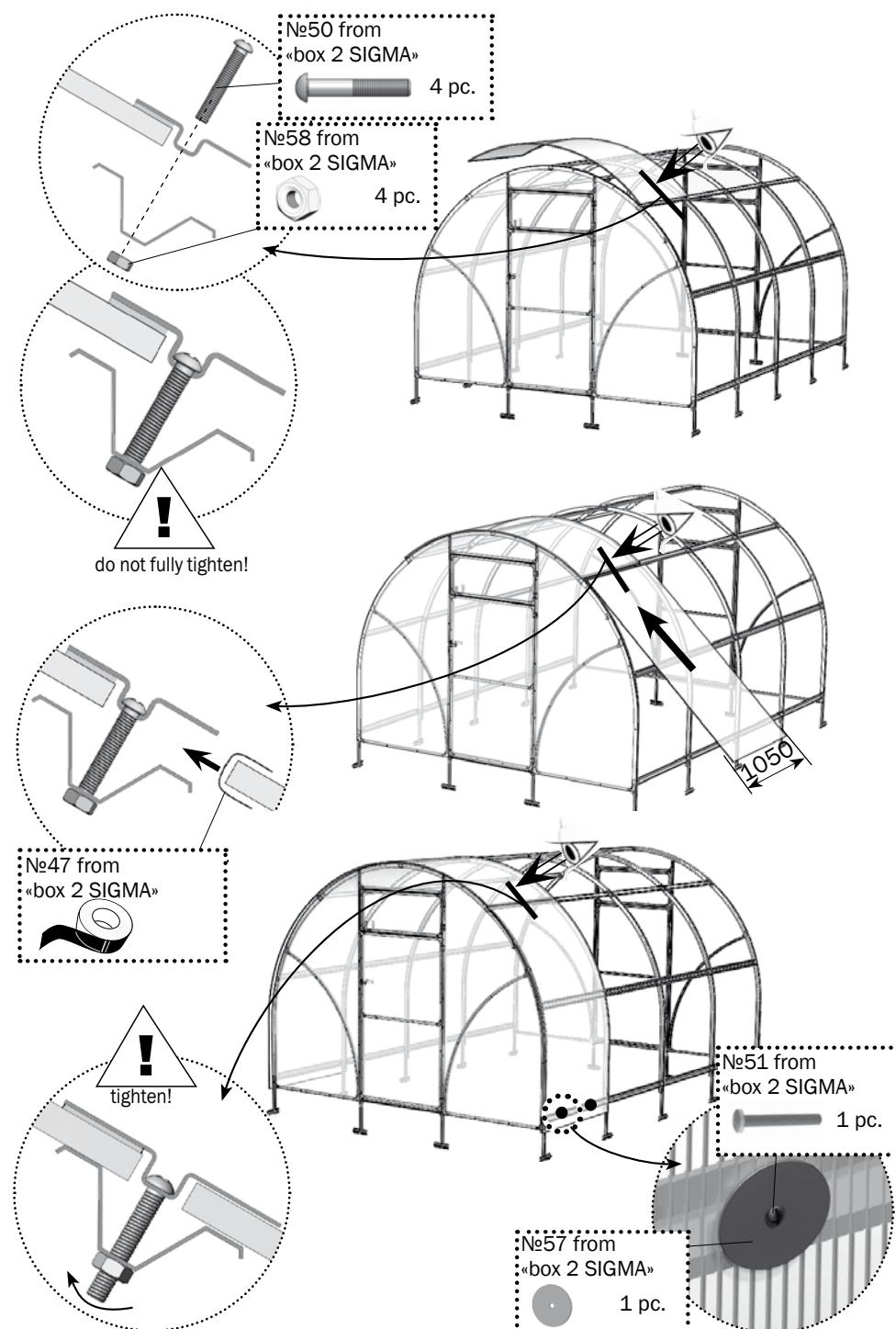
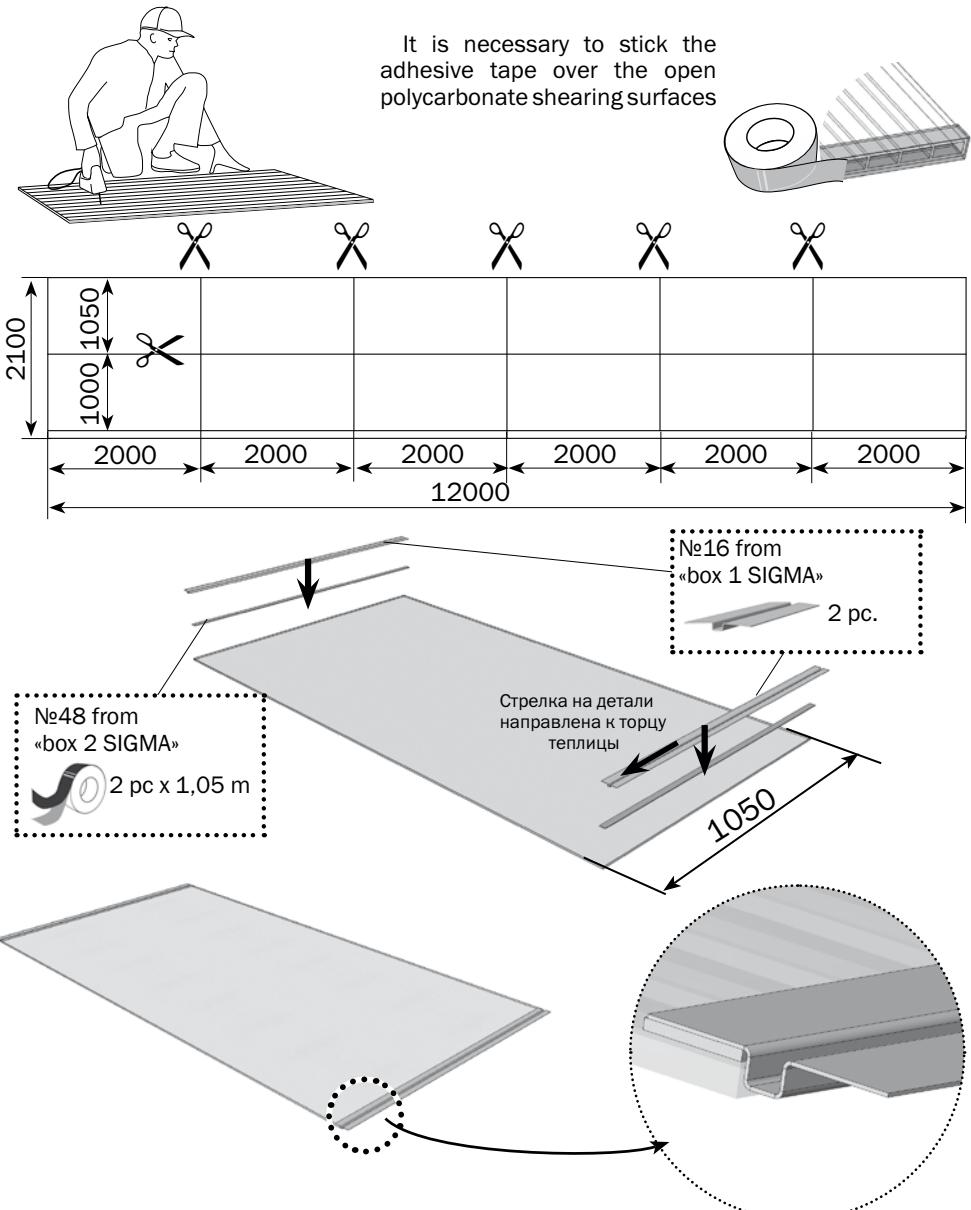
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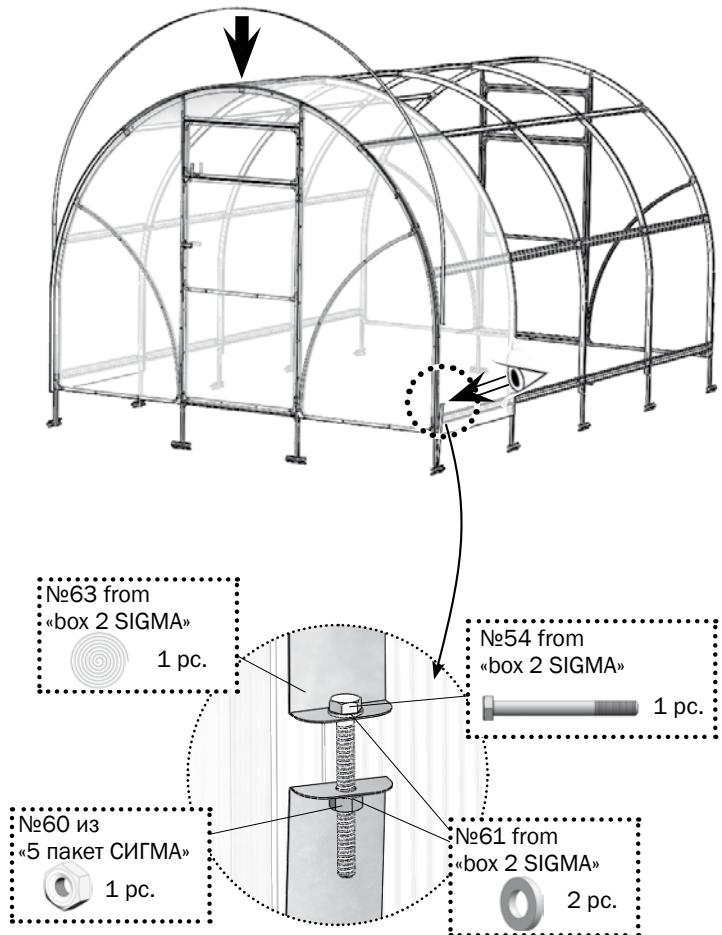
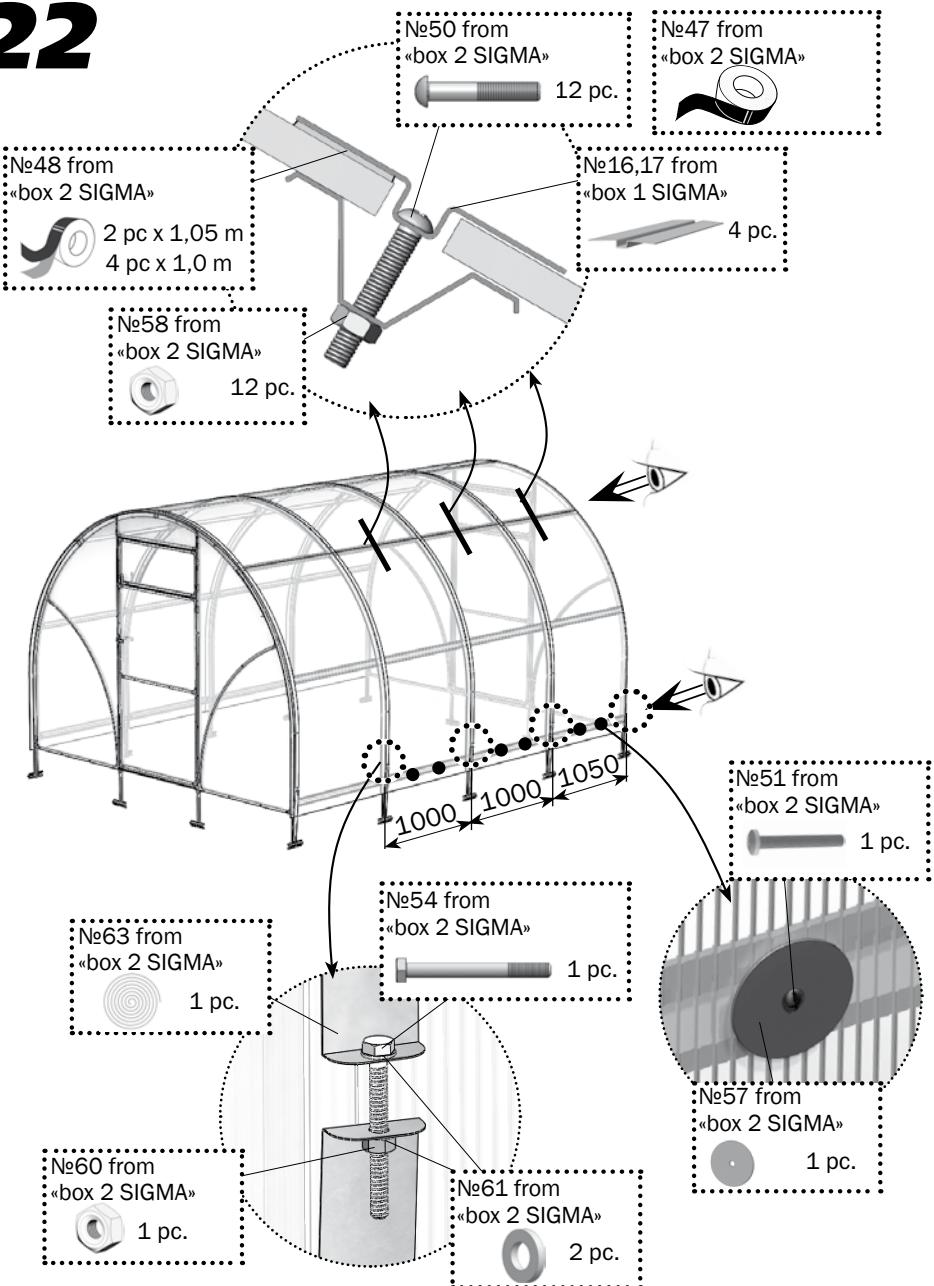
15**16****17**

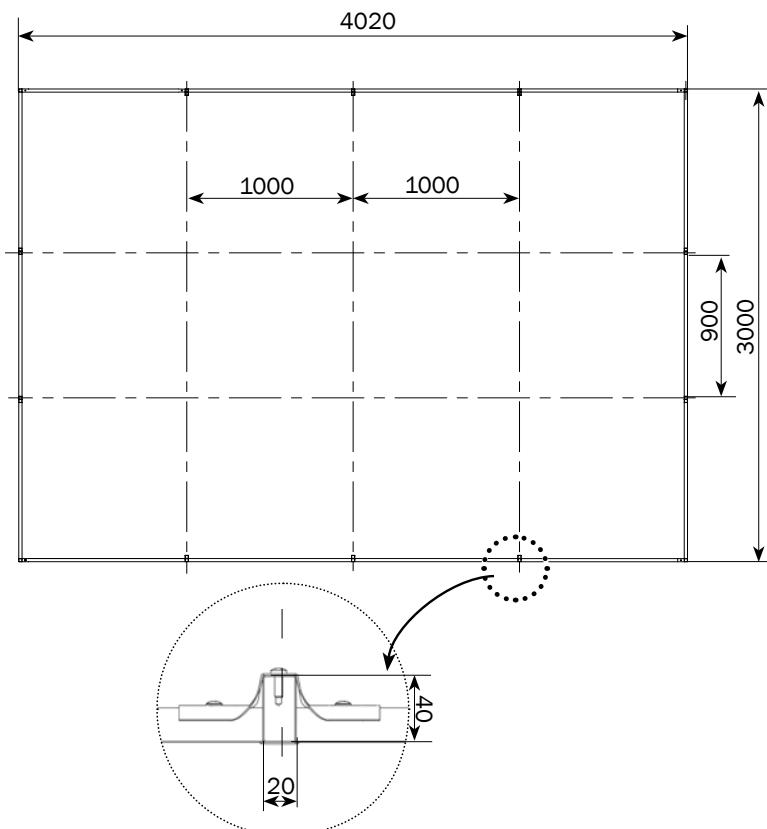
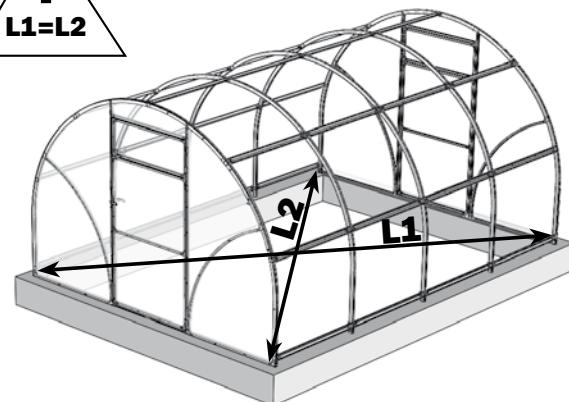
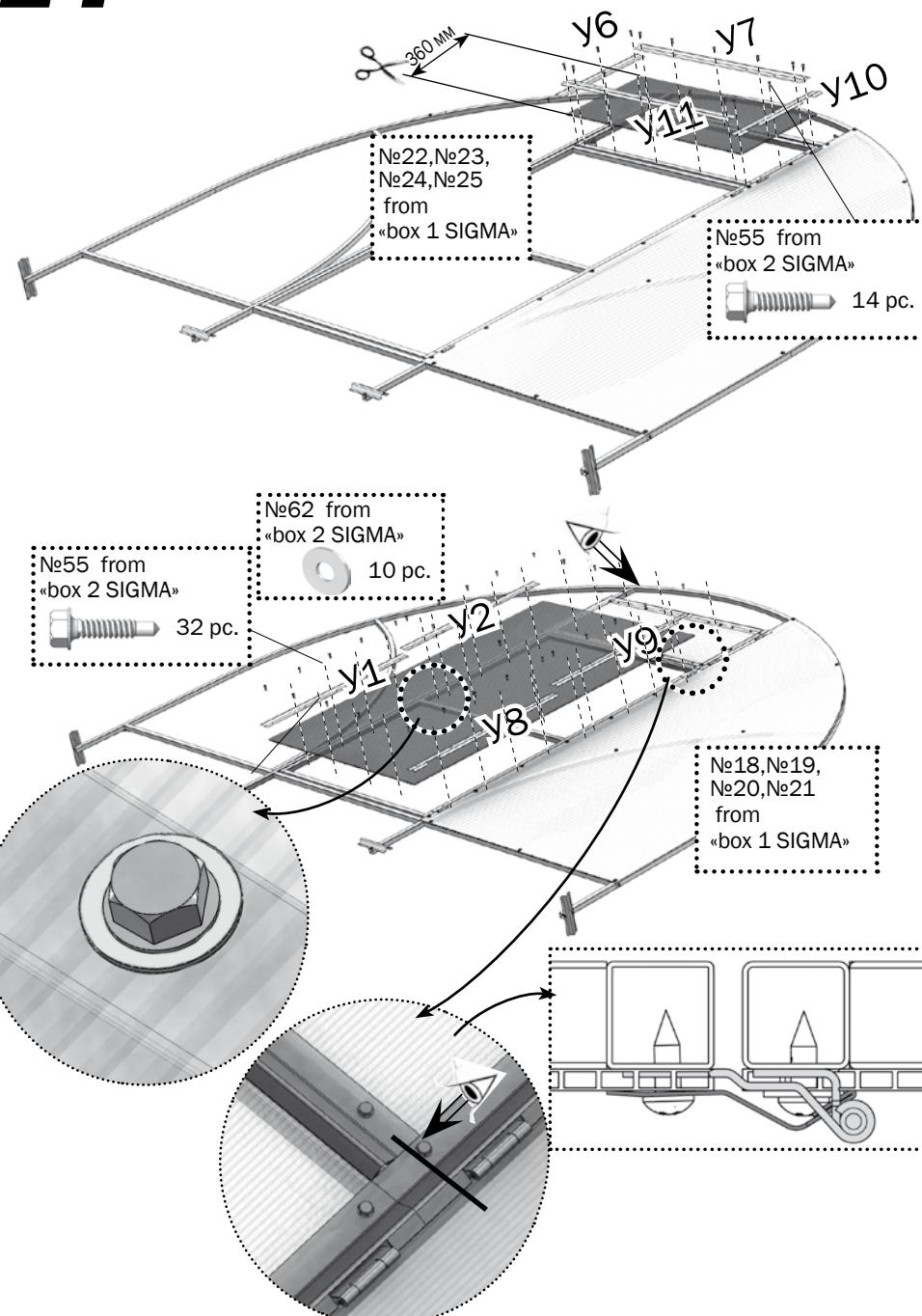
18**LENGTHENING OF THE BASE WITH THE INSERT****19**

20

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.



21**22**

23**MOUNTING ON THE FOUNDATION****24****Mounting of decorative steel lining on the doors and windows (seal).**



Manufacturer:
Volya LLC, Dubna, Moscow Oblast
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www.perchina.ru
e-mail: info@perchina.ru

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