

AGRONOM







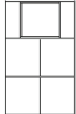
GREENHOUSE ASSEMBLY MANUAL



















Greenhouse «AGRONOM» is designed to create an optimal climate for growing sprouts, flowers and vegetables in your garden.

The frame of greenhouse «AGRONOM» is made from galvanized square-shaped pipe of 40x20 and 20x20 mm and is designed to be covered in cellular polycarbonate. For more convenient transportation, the end-walls and arcs can be dismantled. The greenhouse frame is assembled with use of bolts and nuts (M6). A No. 10 wrench is required for assembly.

The greenhouse is equipped with two doors and vents for improved ventilation.

Polycarbonate cover can be left for the winter.

No.	Part name	Quantity, pcs.		
		4m	6m	8m
1.	Arc 	2	4	6
2.	End - wall arc (different from the standard arc due to having holes for fastening the end-wall elements) 	4	4	4
3.	End-wall foundation (L= 3670 mm) 	2	2	2
4.	End-wall post (L= 2080 mm) 	4	4	4
5.	End-wall bridges (L= 2600 mm) 	2	2	2
6.	End-wall upper post (L= 540 mm) 	2	2	2
7.	Door with a vent 	4	4	4

No.	Part name	Quantity, pcs.		
		4m	6m	8m
8.	Beam (L= 1980 mm) 	22	33	44
9.	Bolt M8x25 (for arc fastening) 	6	8	10
10.	Nut M8 	6	8	10
11.	Bolt M6x55 with washer (for bridge and post fastening) 	18	18	18
12.	Bolt M6x35 with washer (for bridge and post fastening) 	18	18	18
13.	X-shaped fastening plate, pair 	11	22	33
14.	T-shaped fastening plate, pair 	22	22	22
15.	Bolt M6x40 (for fastening plates) 	88	132	176
16.	Nut M6 	144	158	202
17.	Anchor bolt 8x85 mm 	8	10	10
18.	Screw 5,5x38* (to attach polycarbonate to arcs) 	60	85	110
19.	Screw 5,5x25* (to attach polycarbonate to end-walls) 	116	116	116
20.	Hinge 	20	20	20
21.	Door hook (to fix the door in open position) 	4	4	4
22.	Door latch (to fix the door in closed position) 	2	2	2
23.	Vent latch 	6	6	6
24.	Screw 4,2x19 mm (for hinges, hooks and latches) 	108	108	108
25.	Cellular polycarbonate ** (sheet size 2.1x6 m) 	4+2/3	6	7+1/3

* this set of screws is designed for polycarbonate sheets with thickness of up to 6 mm.

** when buying a greenhouse frame, the polycarbonate cover is not included.

Requirements for conditions of use

1. Read the manual prior to installation of the greenhouse. Incorrect assembly may lead to frame damage.
2. Depending on the location of the greenhouse, the buyer must evaluate the possible snow load and, if necessary, install additional greenhouse frame supports or remove the snow from the frame. The greenhouse is designed for the snow load of 240 kg/m² and wind speed of less than 20 m/s. The snow load is equal to 40 cm of pressed snow or 80 cm of fresh snow.
3. Do not install the greenhouse in direct vicinity (less than 3m) to buildings, fences and constructions.
4. When installing the greenhouse in a windy area, an additional anchoring to the ground is required.
5. Do not subject the frame of the greenhouse to mechanical effects.
6. Do not try to change the construction of the product.
7. To avoid losing transparency of the cellular polycarbonate it is recommended to clean the sheets by using a cotton cloth, water and detergents that do not contain ammonia and solvents. Do not use chemical detergents with abrasive particles.

General provisions on cellular polycarbonate installation

The frame already has drilled holes for attaching cellular polycarbonate sheets. Do not over-tighten the screws, leave a small amount of "wiggle room".


Sheets from cellular polycarbonate must be installed with the side with UV-protection on the outside (towards the sun). Appropriate markings are placed on the packing film. The polycarbonate sheets must be stored in the protective film until the assembly.

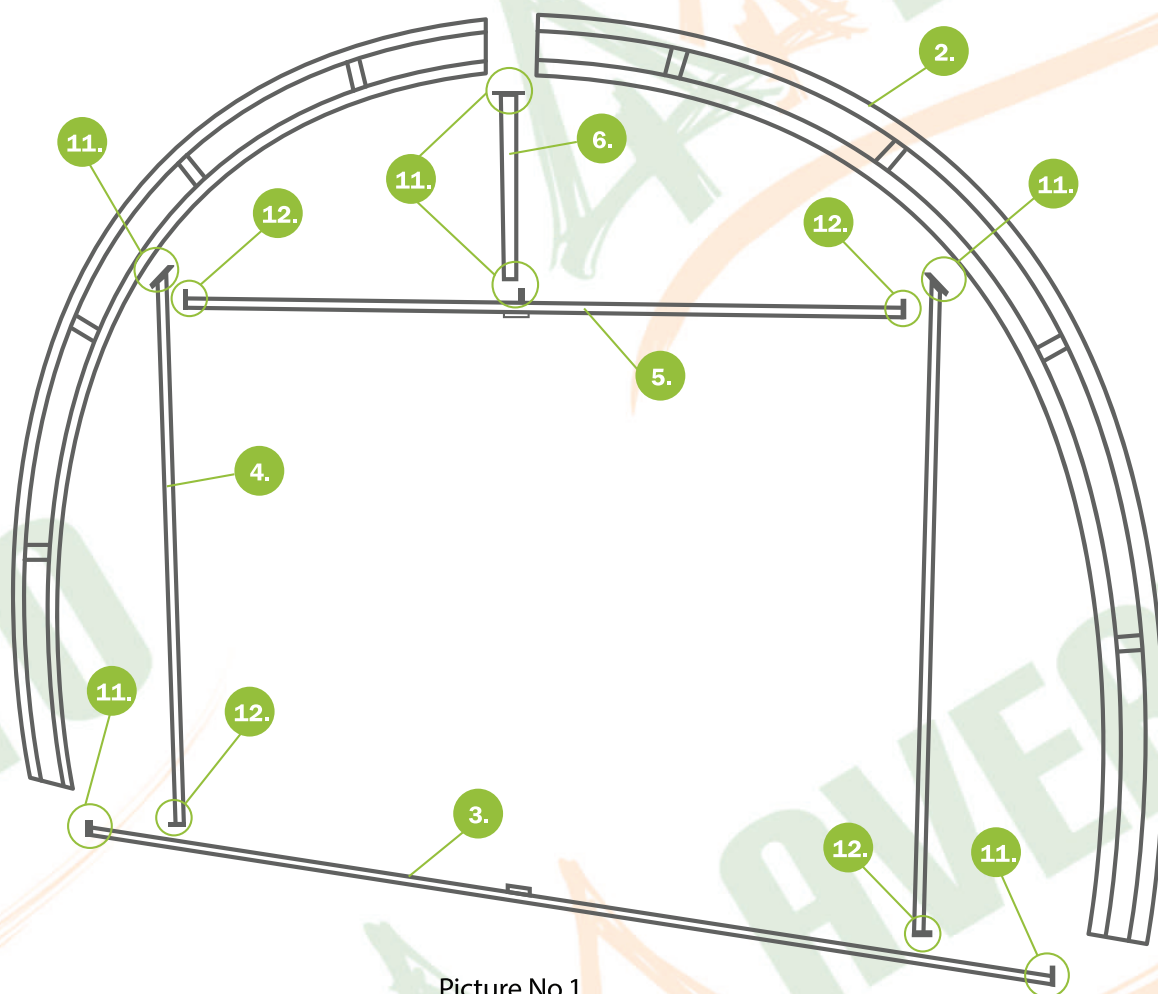
A utility knife or construction knife with an extendible blade or a power jigsaw must be used for cutting polycarbonate sheets. During cutting of the sheet the protective film must be left intact to avoid scratches.

Remove the protective film from both sides of the polycarbonate sheet immediately after installation.

Take into account that the best approach is to position polycarbonate channels in a vertical position.

Do not forget to remove the packaging film from both sides of the polycarbonate sheet!

- 
- Greenhouse has a wide windage area. Do not leave an assembled greenhouse without anchoring.
 - When installing the greenhouse in windy areas, you must anchor the frame to the ground with additional materials (fittings, etc.).
 - Do not install the greenhouse in direct vicinity (less than 3m) to buildings, fences and constructions.
 - The area, where the greenhouse will be installed, must be flat, without any significant changes of the surface level.
 - During strong winds the doors and vents of the greenhouse must be closed.



Picture No.1

5. 1. End-wall assembly

5.1.1. Assemble the end-wall arcs by using M8x25 mm bolts as shown in picture 3.

5.1.2. The end-wall parts must be interconnected by using the M6x55 mm and M6x35 mm bolts, according to the drilled holes and the scheme illustrated in picture 1. The post bolts and bridges must be tightened only after the doorway diagonals have been inspected.

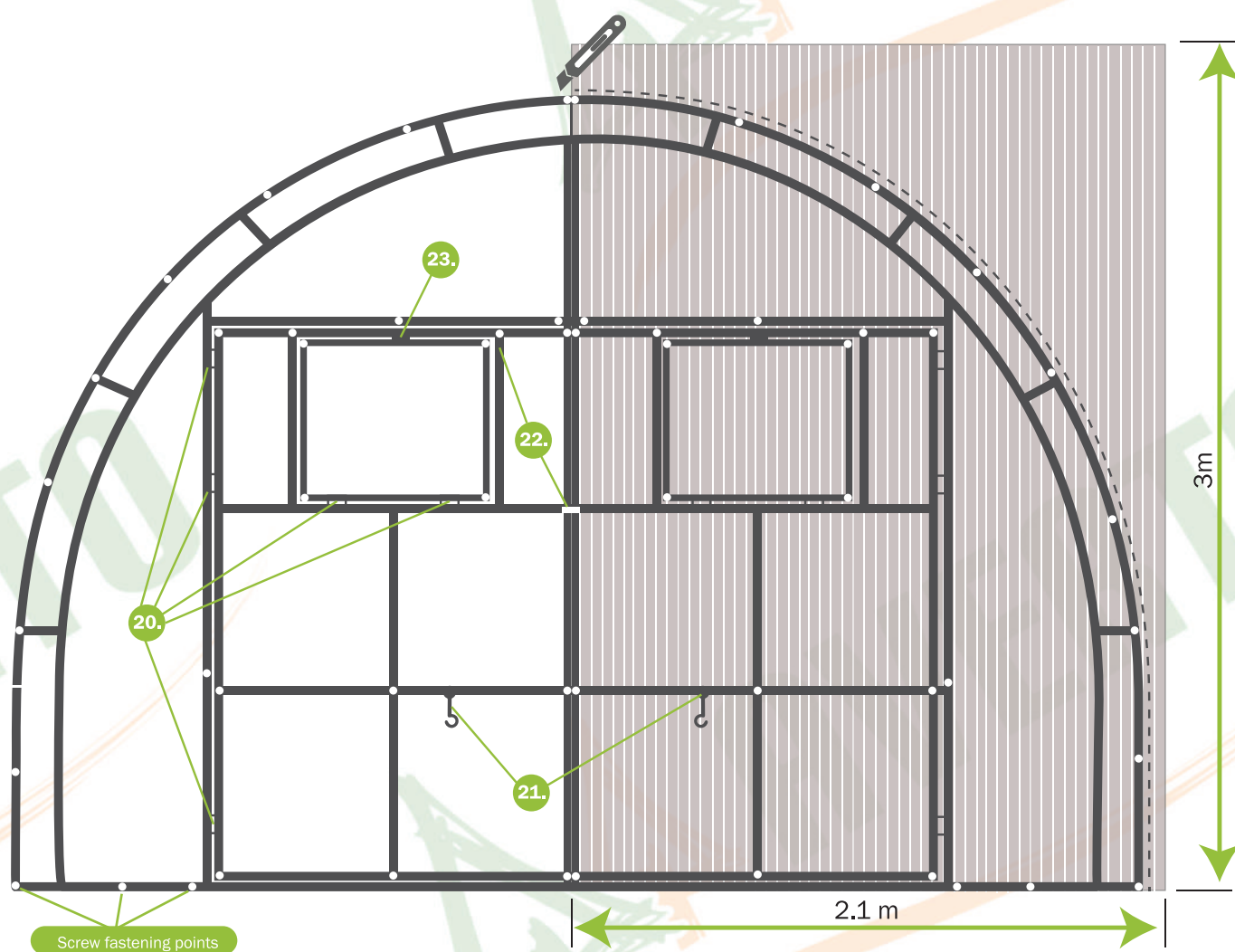
5.2. Installing polycarbonate on end-walls

5.1.2. Cut the polycarbonate sheet (6.00x2.10 m) in two parts, 3 m each. The polycarbonate sheet must be cut with a construction knife or an electric jigsaw.

5.2.2. Place the cut polycarbonate sheet on the end-wall. Level the sheet according to the end-wall centre and fasten in with 5.5 x 25 mm screws (picture 2). Cut the polycarbonate along the arc.

5.3.2. Install the hinges and latches. Make cuts along the horizontal and vertical door and vent sides to allow them to open.

5.2.4. Install the hook and eyelet.



Picture No. 2

5.2.5. Cover with polycarbonate and install the fittings on the second end-wall as described in 5.2.2 - 5.2.4.

5.2.6. Cover the second end-wall with polycarbonate as described above.

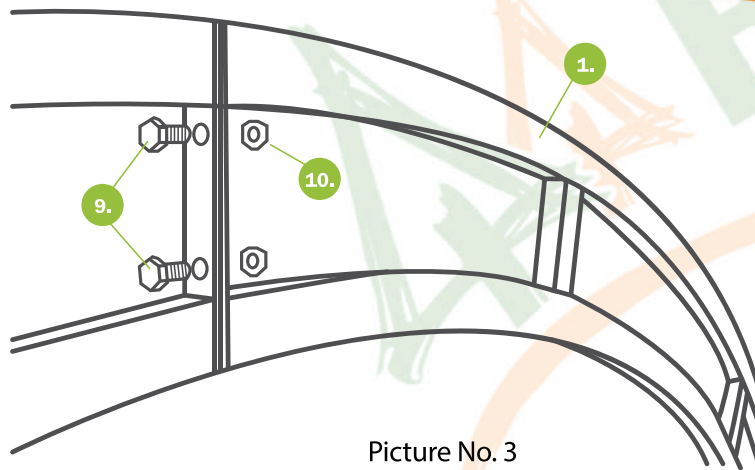
5.2.7. Latches should be installed after the assembly of the greenhouse. The latch that fixes the door in closed position is attached from the inside.

5.3. Frame assembly

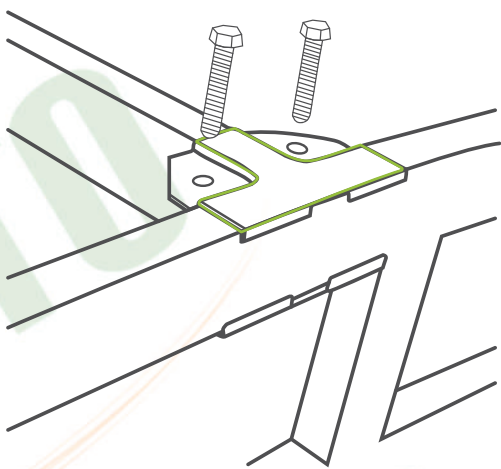
5.3.1. Assemble the arcs by using M8x25 mm bolts as shown in picture 3.

5.3.2. Use fastening plates and beams to attach the ark to the end wall. Pay attention to the fact that T-shaped plates are installed on an end wall (see picture 4), but X-shaped plates are installed on an arc (picture 5). Bridges in arcs are used as supports for fastening plates. Upper and lower beam fastening nodes are illustrated in pictures 6 and 7.

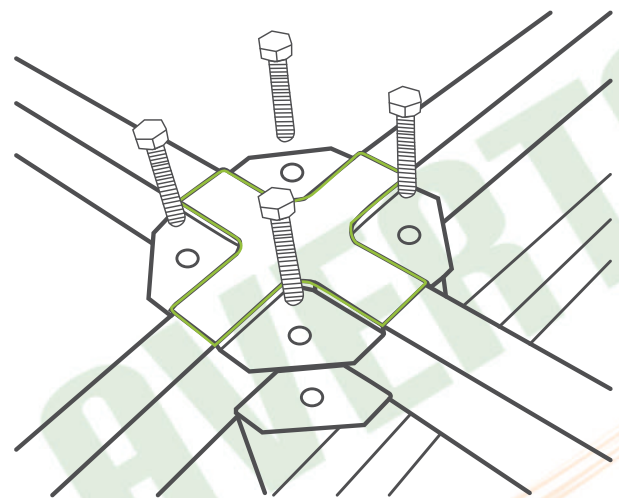
The general view of the frame assembly is illustrated in picture 8.



Picture No. 3



Picture No. 4

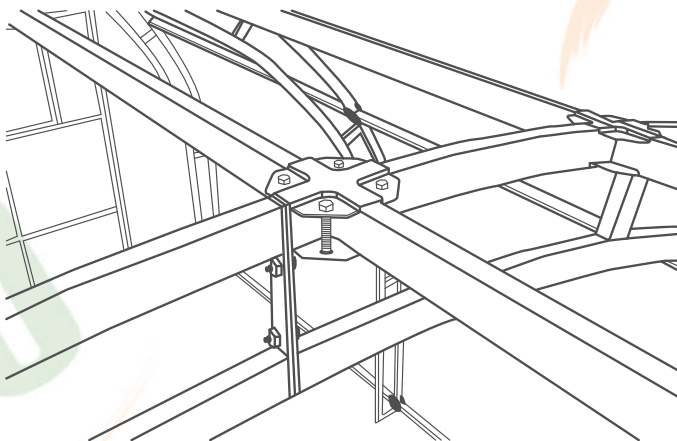


Picture No. 5

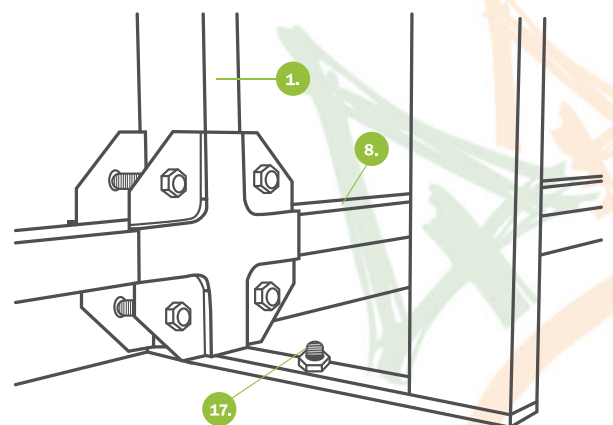
5.3.3. Attach the second end-wall for the 4 m long greenhouse. Use inserts to extend the greenhouse for 2 meters.

5.4. Greenhouse installation

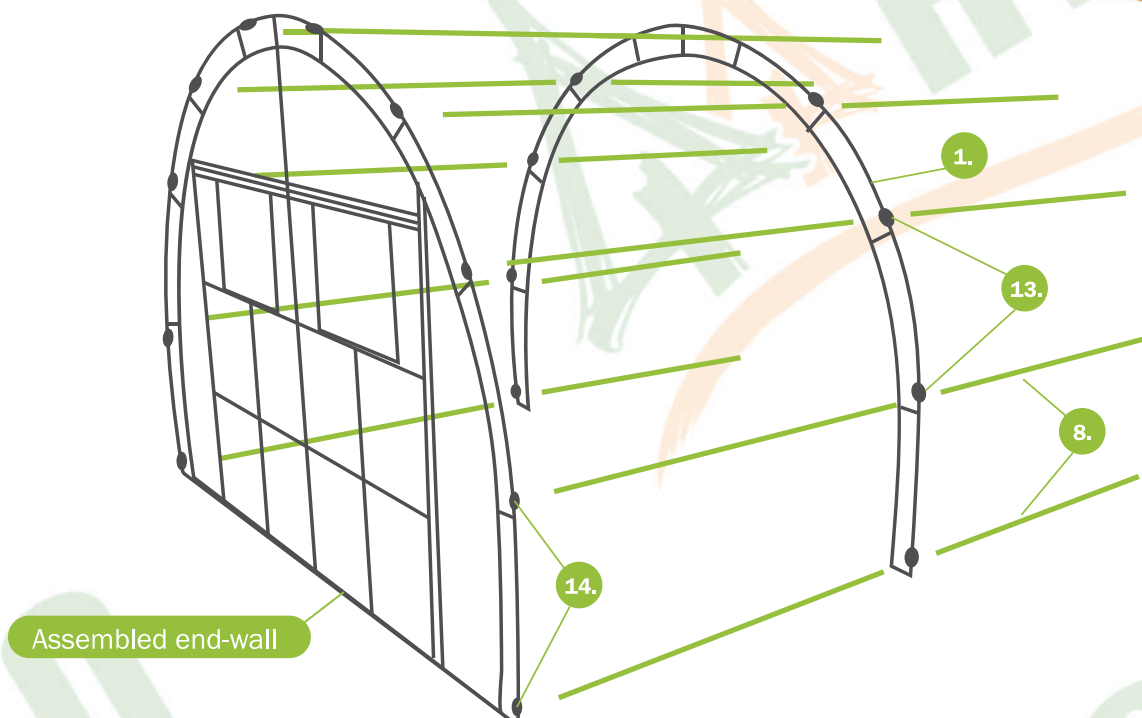
The greenhouse must be installed on a foundation. End walls and arcs must be attached to the foundation by use of anchor bolts, as shown in picture 6.



Picture No. 6



Picture No. 7



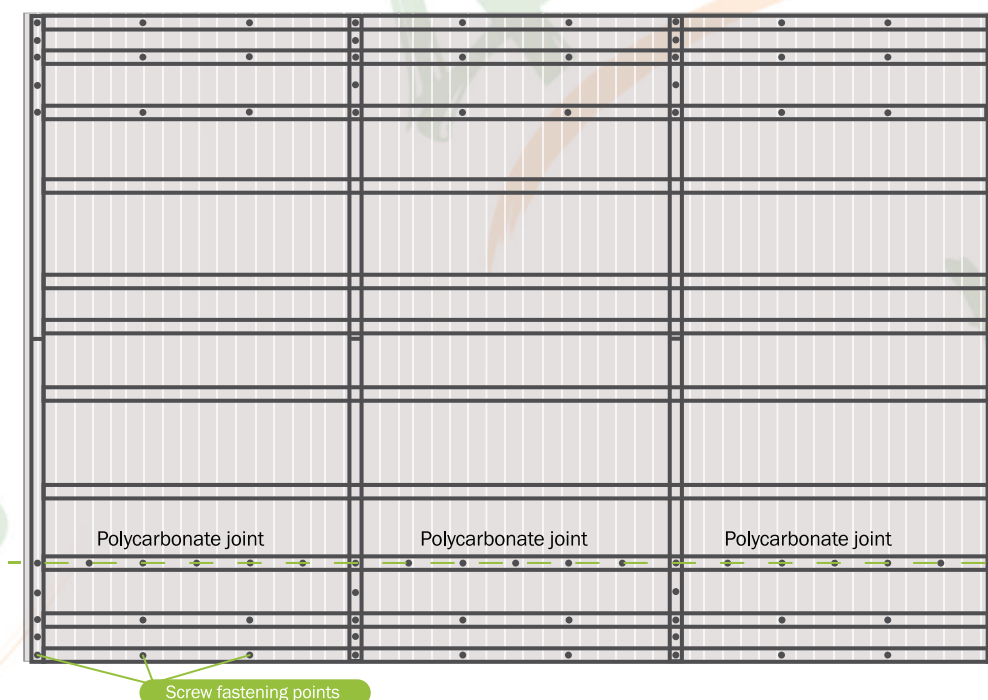
Picture No. 9

5.5. Installation of cellular polycarbonate

The polycarbonate sheets must be placed in a way that ensures that the polycarbonate channel lines are parallel to the arcs. The sheets must be placed in a way that they extend for 5 cm outside. The polycarbonate sheets must be installed on each other.

Taking into account that the arc length is more than 6 meters, two sheets should be used: a full 6.0 x 2.1 m sheet and a part of a sheet 2.0 x 2.1 m. Polycarbonate sheets must be interconnected on the third beam from below.

The panels must be carefully levelled and fastened with 5.5 x 38 mm screws. The polycarbonate fastening scheme is illustrated in the picture No. 9.



Picture No. 9



LV: Siltumnīcas, garāžas un auto nojumes, noliktavas un nojumes, dārza instrumenti, mēbeles dārzam un pasākumiem, teltis un virszemes baseini.

LT: Šiltnamiai, kilnojamieji garažai, garažai palapinės, tentinis sandelis, palapinės paviljonai, sodo įrankiai, sulankstomų baldų baldai, palapinės, baseinas.

EE: Kasvuhooned, teisaldatavad garaažid, telk varjualused, peotelgid & paviljonid, aiandustööriistad, õllemööbel, aiämööbe, telgid, basseinid.

RU: Теплицы и парники, портативный гараж, тентовые сараи, беседки, шатры и павильоны, садовые инструменты, мебели для сада и события, палатки, наземные бассейны.

ENG: Greenhouses, portable garage and storage sheds, party tents and shelters, garden tools, furniture, tents and accessories, swimming pools.

DE: Gewächshäuser, foliengarage, zelthallen, pavillions, gartenwerkzeugen, möbel - klappmöbel, campingzelt & zubehör, schwimmbecken.