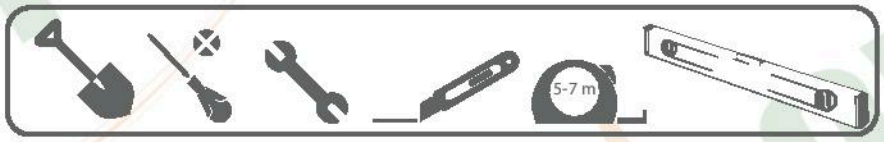
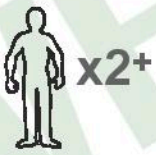


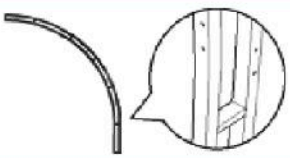


FERMER 6m

Greenhouse assembly manual

"Fermer" greenhouses are modern, durable and convenient. These qualities are the reason why for large-scale agricultural operations, large and small farms, as well as individual growers choose our greenhouses. Greenhouse "Fermer" is designed for professional growing of sprouts and agricultural plants.

The frame of greenhouse "Fermer" is made from galvanized square-shaped pipe of 40x40 and 40x20 mm, and is designed to be covered in cellular polycarbonate. For a more convenient transportation, the end-walls and arcs can be dismantled. The greenhouse frame is assembled with use of bolts and nuts (M8). A No. 13 wrench is required for assembly. The set includes two doors, vents for ventilation are not included in the set and must be purchased separately.

No.	Part name	Quantity, pcs.		
		10 m	16 m	20 m
1.	Arc 	8	14	18
2.	End-wall arc (is different from the standard arc due to having holes for fastening the end-wall elements) 	4	4	4

No.	Part name	Quantity, pcs.		
		10 m	16 m	20 m
3.	End-wall foundation (L= 5880 mm)	2	2	2
4.	End-wall post (L= 2880 mm)	4	4	4
5.	End-wall cross-beam (L= 785 mm)	4	4	4
6.	Left gate leaf	2	2	2
7.	Right gate leaf	2	2	2
8.	Door 	2	2	2
9.	Lower row beam (L = 1960 mm) 	10	16	20
10.	Long beam (L= 1960 mm) 	55	88	110
11.	M8x60 bolt for fastening end-wall parts and beams to arcs 	116	188	236
12.	M8x60 bolt for fastening end-wall parts and beams to arcs 	56	56	56
13.	Bolt M8x25 (for arc fastening) 	12	18	22
14.	Nut M8 	184	262	314
16.	Anchor bolt 10x100 mm 	16	22	26
17.	Screws 4.8x35 mm with galvanised washer and rubber seal (for polycarbonate) 	388	502	578
18.	Gate hinges (left/right) 	12	12	12
19.	Door hinge 	4	4	4
20.	Door latch (to fix the door in closed position) 	2	2	2
21.	Door hook (to fix the door in the open position) 	2	2	2
22.	Door knob 	2	2	2
23.	Screw 4.2x25 mm with a drill-bit (for hinges, knobs, latches and hooks) 	144	144	144
24.	Cellular polycarbonate ** (sheet size 2.1x12 m) 	7	10	12

* this set of bolts was designed for polycarbonate with maximum thickness of 6 mm or less
** 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 customer must evaluate the possible snow load and, if necessary, install additional supports or remove snow from the greenhouse. The greenhouse is designed for wind speed of up to 20 m/s.

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!

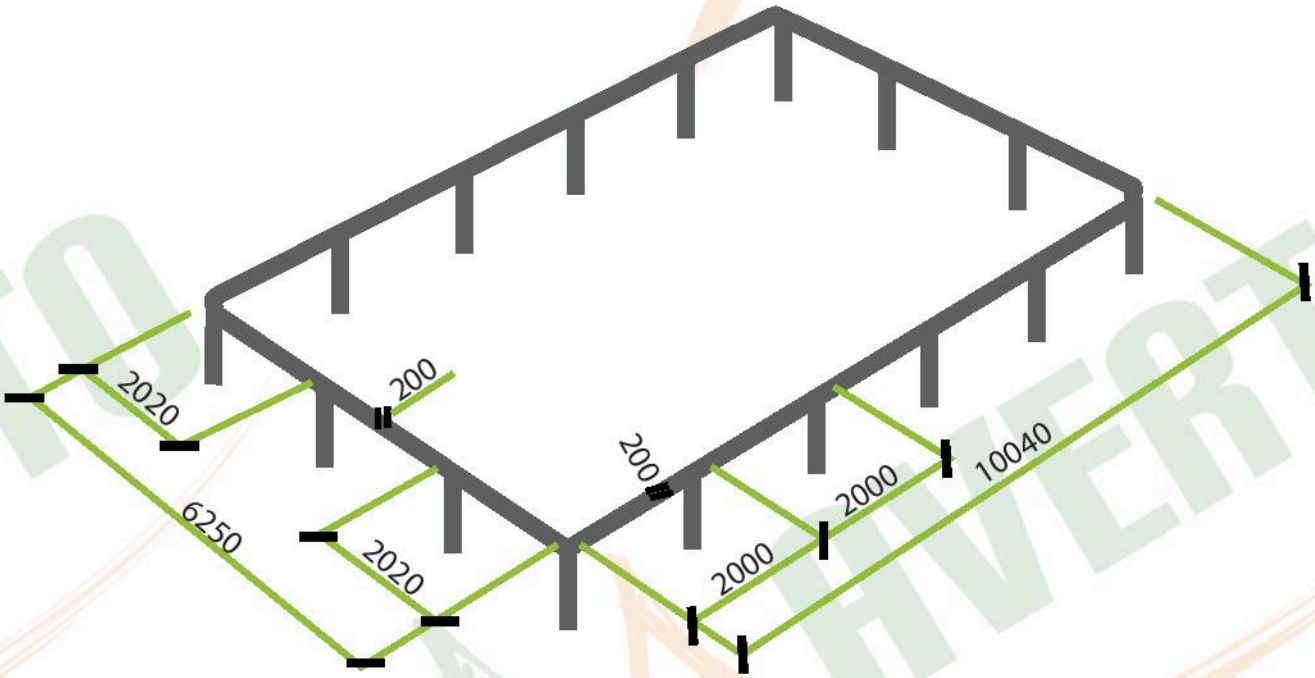
- Greenhouse has a wide windage area. Do not leave an assembled greenhouse without anchoring.
- When installing the greenhouse in windy areas, you must anchor the frame to the ground with additional materials (fittings, etc.).
- Do not install the greenhouse in direct vicinity (less than 3m) to buildings, 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.

4. Order of assembly

4.1. Foundation filling

Prior the installation of the greenhouse, reinforced concrete pillars must be constructed. Concrete pillar cross-section 250 x 250 mm or diameter of 250 mm. The distance between the concrete pillars and the laying depth is indicated in the picture 1.

The pillars must be covered with reinforced base plate with cross-section of 200x300 mm (picture 2).



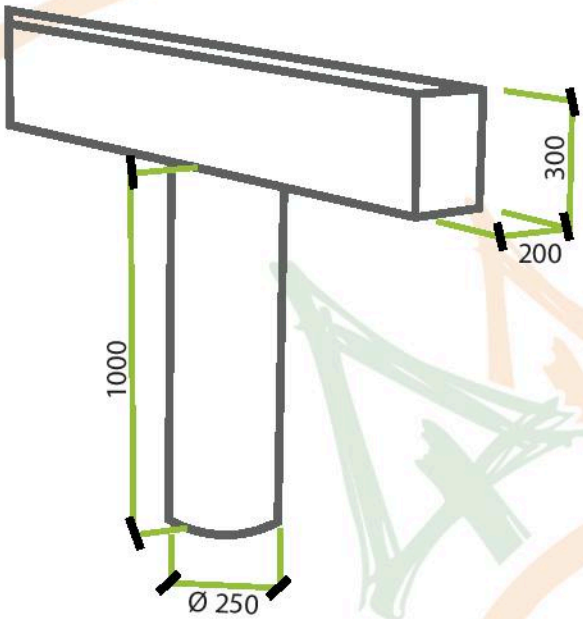
Picture No. 1

Greenhouse size and foundation dimensions:

10 m: 10040x6250 mm
12 m: 12040x6250 mm
14 m: 14040x6250 mm
16 m: 16040x6250 mm
18 m: 18040x6250 mm
20 m: 20040X6250 mm

The greenhouse must be installed at least 72 hours after the concrete foundation has been laid. Make sure that the foundation surface is level and flat since it is important for the greenhouse assembly.

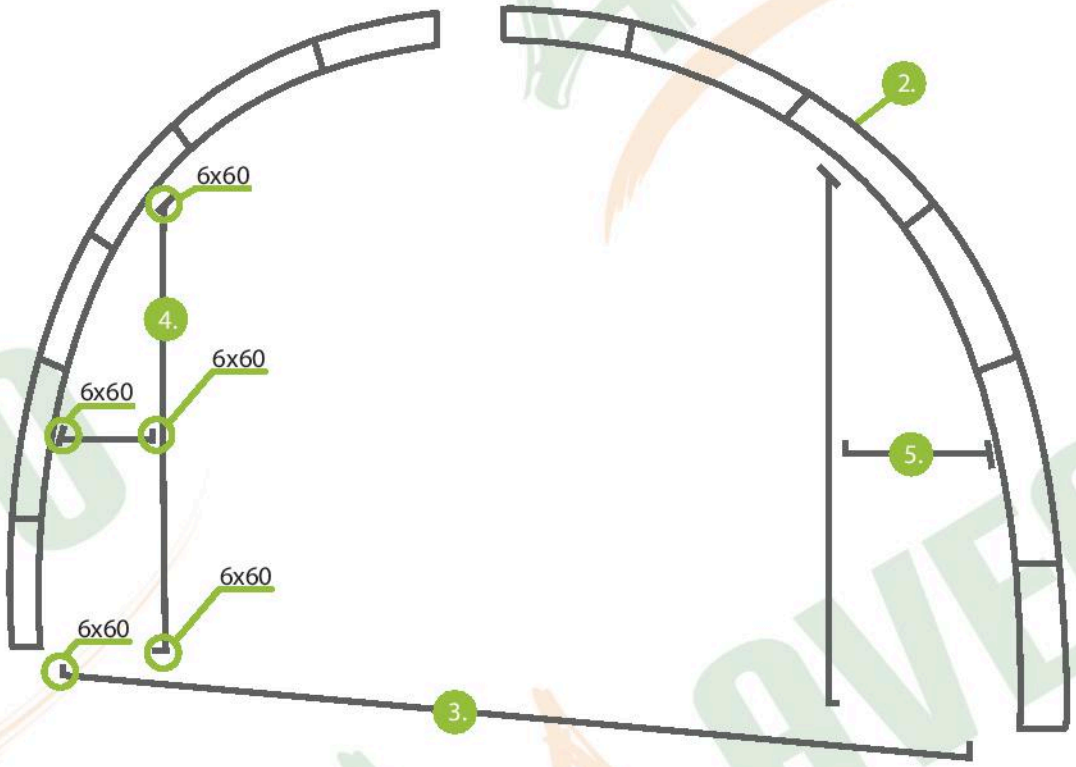
*Materials required for the concrete foundation are not included in the delivery set



Picture No. 2

4.2. End-wall assembly

The end-wall assembly should be performed according to the schematic illustration in picture 3.u.



Picture No. 3

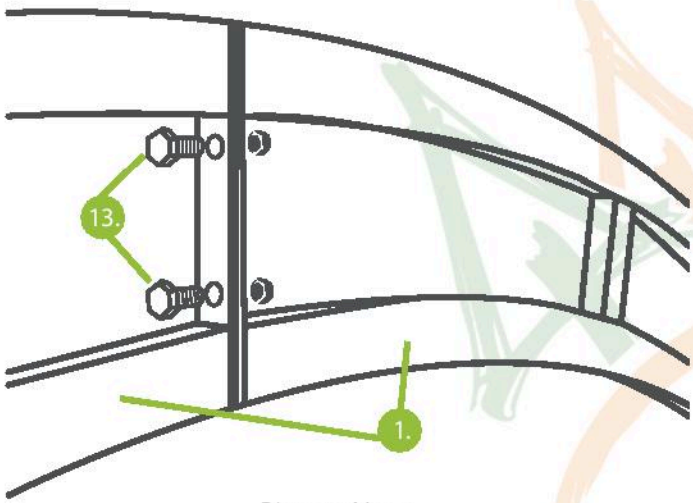
End-wall parts must be interconnected by use of M8x60 mm bolts, according to the pre-drilled holes. End-wall arcs are interconnect by use of M8x25 mm.

Assemble the second end-wall the same way as the first.

4.3. Arc assembly

Connect the two half-arcs and fasten them by use of M8x25 mm bolts and nuts, as illustrated in picture 4.

Connect the remaining arcs the same way as the first one.



Picture No. 4

4.4. Arc and end-wall installation

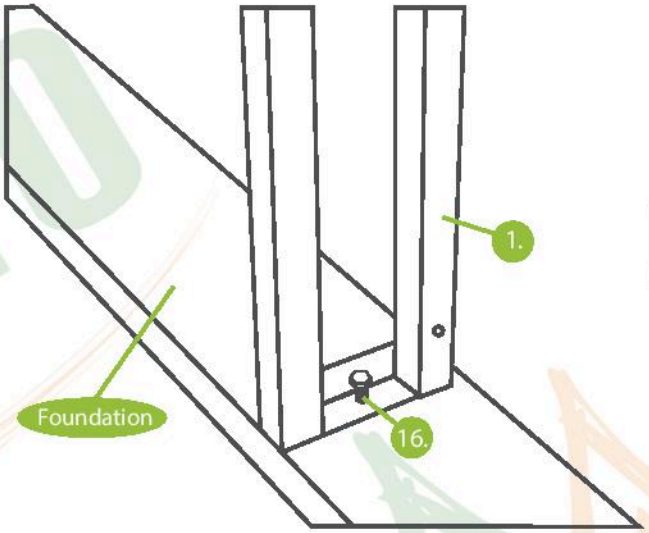
Install the assembled end-wall along the foundation side and fasten it with 10x100 anchor bolts, as illustrated in picture 5.

Attachment of all following arcs to the foundation is performed in the same way as the end-wall attachment.

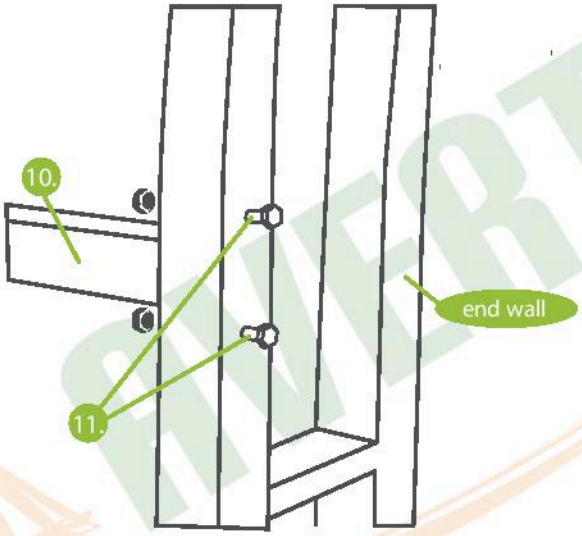
4.5. Connecting arks and end-walls

After the end-wall has been fastened to the foundation, it's time to attach the arks by use of row beams and lower row beams.

Pay attention to cross-beam attachment to the end-wall (picture 6), since the furniture bolts and nuts are used to attach the beams to the end-wall.

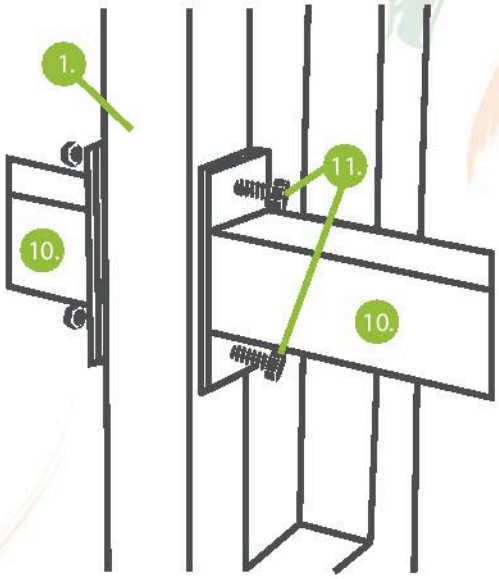


Picture No. 5

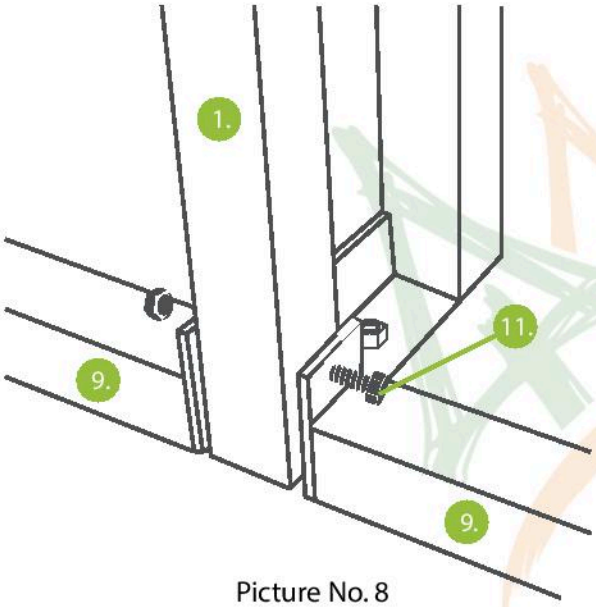


Picture No. 6

All other arcs and beams are connected by use of bolts and nuts, as illustrated in pictures 7 and 8.

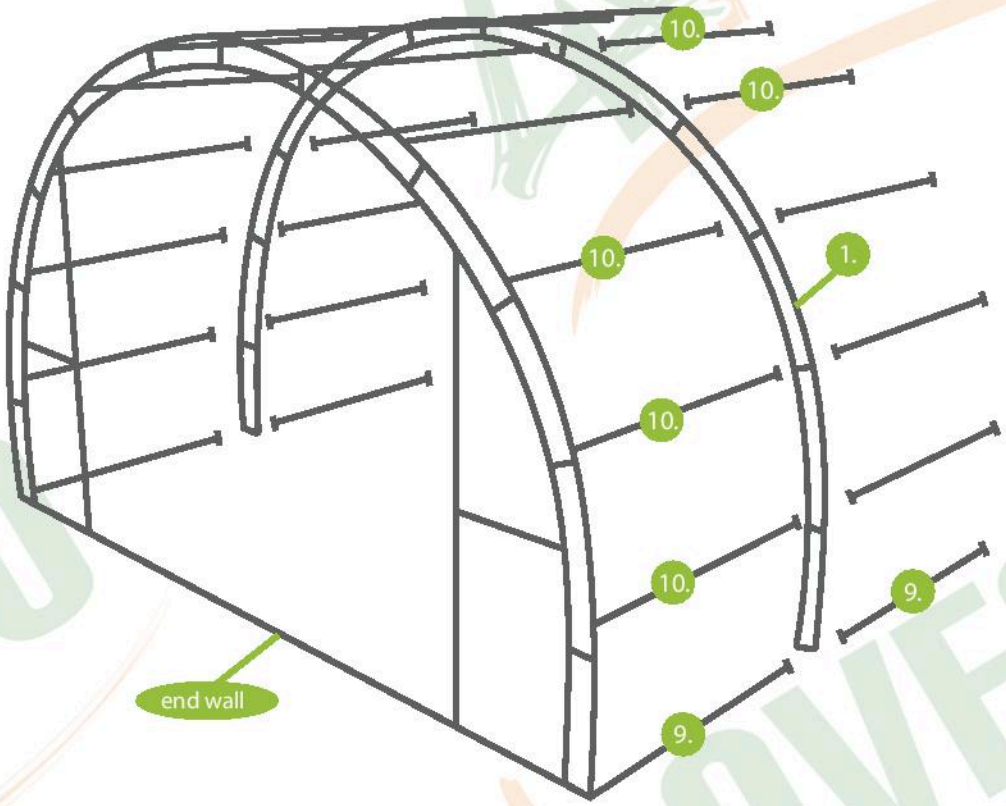


Picture No. 7



Picture No. 8

The general assembly of end-wall and arcs with beams is illustrated in picture 9.



Picture No. 9

4.6. Installing polycarbonate on side end-walls

4.6.1. Cut the polycarbonate sheet (dimensions 12.00 x 2.10 m) in three parts, 4 m each. The polycarbonate sheet must be cut with a construction knife or an electric jigsaw.

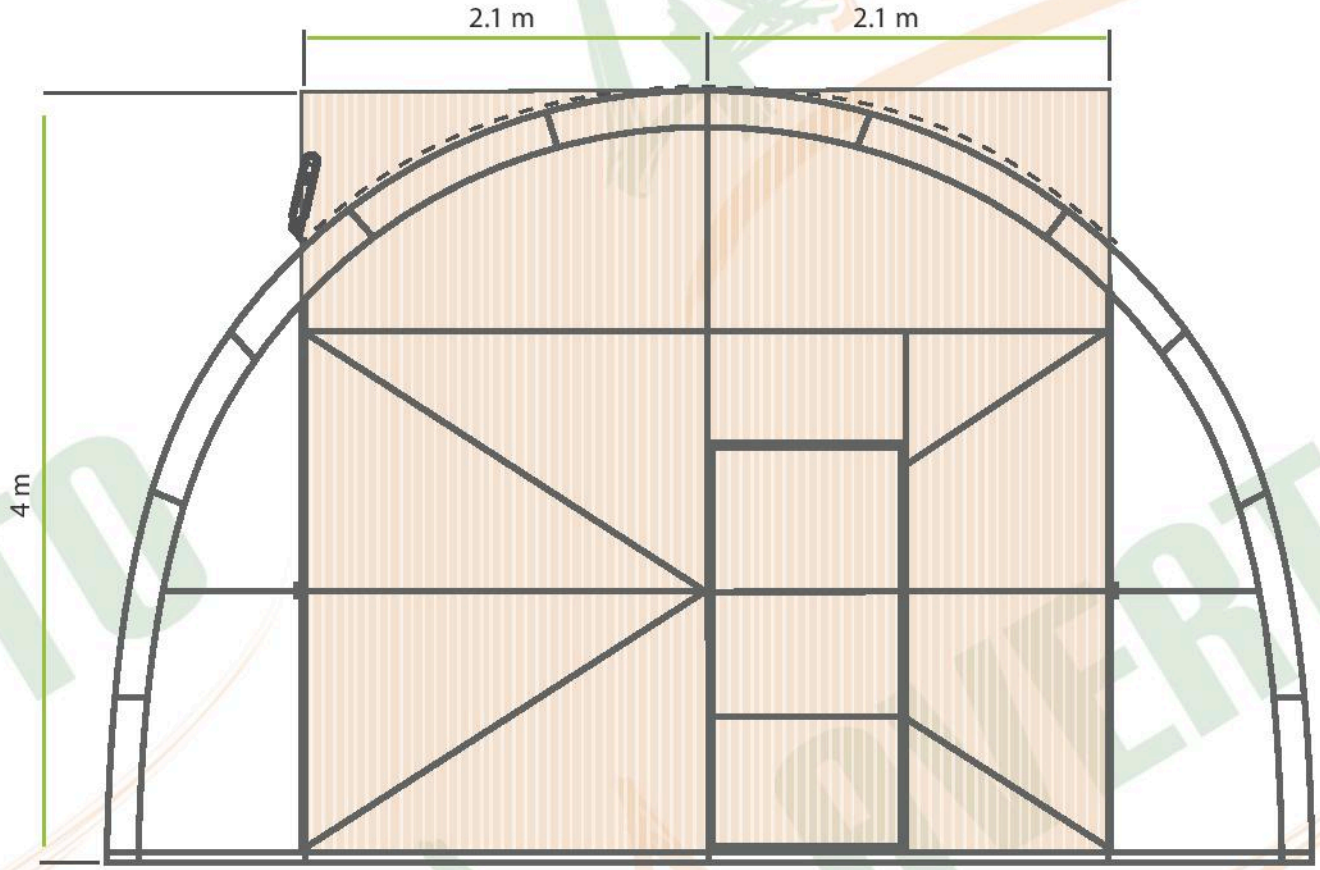
4.6.2. Place one of the three polycarbonate parts (4 x 2.1 m) on the left side of the gate. Polycarbonate cells must be placed vertically. Level the polycarbonate sheet on all sides and fasten it with screws, galvanized washer and rubber seal. Cover the right side of the gates in a similar fashion (pic. 10).

4.6.3. Cut the remaining part of the polycarbonate (4x2.1 m) in half along the longest side so that you have two 4 x 1.05 m sheets. Use these sheets to cover the right and left sides of the end-walls and use screws to attach polycarbonate, while cutting it along the arc.

4.6.4. After fixing the polycarbonate to the end-wall with screws, take the following steps. Use a construction knife to cut-out gates and doors in a way that allows them to open.

4.6.5. Install hinges, knobs, hooks and latches.

4.6.6. Attach the polycarbonate to the second end-wall the same way as the first.



Picture No. 10

4.7. Installation of cellular polycarbonate

The sheets must be placed in a way that ensures that polycarbonate channels 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. The sheets must be levelled and attached by screws starting from the lower side then along the arcs.

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

Attention!
The greenhouse has windage. Do not leave an assembled greenhouse unanchored to the foundation.

Do not install the greenhouse in direct vicinity (less than 2 m) of buildings, structures and fences.

The plot of land, on which the greenhouse will be installed, must be level and without sufficient changes in ground level.

In strong winds the ventilation windows and greenhouse doors must be closed.

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,
palapines paviljonai, sodo įrankiai, sulankstomų baldų baldai, palapinės, baseinas.

EE: Kasvuhooned, teisaldatavad garaažid, telk varjualused, peotelgid & paviljonid,
aiandustööriistad, õllemööbel, aiamööbe, 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.