

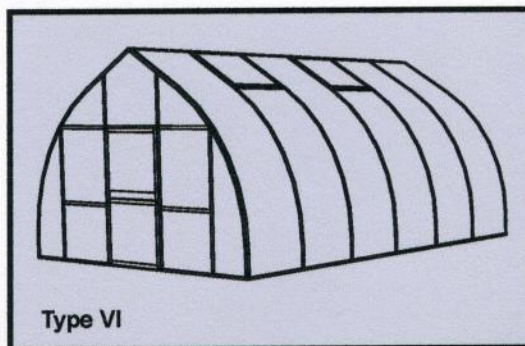
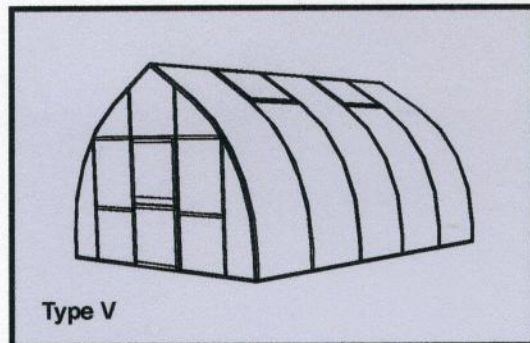
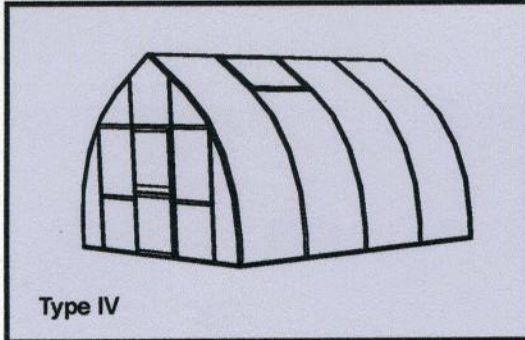


**ALUMINUM  
Greenhouse**

# Riga XL

8/2007

## *Assembly Instructions*



## **Dear Gardening Friend,**

Thank you for buying a top quality greenhouse from Hoklartherm in Germany.

Please read these Assembly Instructions and helpful suggestions carefully. If you follow them step by step you should not have any difficulty assembling your Extra Large RIGA Greenhouse. Good Luck!

### **What to do First:**

Check all the boxes you have received. Make sure you have received the correct number as shown on the Bill of Lading from the freight carrier. If you are missing a box or if any of the boxes are damaged please write this down on the Bill of Lading, before the driver leaves.

**Note:** Please do not refuse any of the boxes or the whole shipment, because of any damage. We will gladly replace any damaged items. Sending replacement parts is much simpler, quicker and less costly for all involved.

**In case of damage:** Please, if possible, make digital pictures and contact our USA distributor ASAP: Exaco Trading, Austin, TX: Customer Service: 877-760-8500 or by email at: [marian@exaco.com](mailto:marian@exaco.com).

### **Placing your greenhouse:**

When possible place your greenhouse in a location with as much sun as possible. We do not recommend putting it directly under trees since branches might damage the glazing.

**Protection from heavy winds:** If your area is subject to very strong wind gusts we strongly recommend against putting your greenhouse up without some kind of protection: a row of small trees, large shrubs or a wooden fence. Please contact our distributor to discuss additional anchoring options.

**Direction:** If you intend to primarily grow vegetables: north-south; for flowers: east-west.

**Warning:** Do not try to assemble this greenhouse in windy conditions, as your glazing panels might blow away and become damaged. Damages during assembly process, due to bad weather, are not covered by our warranty.

### **What you will need:**

- 1) Patience – do not rush
- 2) 2 people (3 will make it easier – when inserting the glazing panels)
- 3) Gloves – the ends of the aluminum profiles can be “sharp”
- 4) Measuring tape
- 5) 2 A-frame step ladders (10’ and 8’ preferable)
- 6) 2 Rubber mallet
- 7) Adjustable wrench
- 8) 10 mm socket wrench
- 9) 10 mm wrench
- 10) Phillips head screwdriver (manual and electric)
- 11) 3 mm Allen wrench (included)
- 12) Level
- 13) Permanent Marker (to mark glazing panels)

## **Suggestion for a timely and flawless assembly of your RIGA XL Greenhouses:**

**Where to Start?** You can if you wish assemble the front, back walls, doors and windows by yourself, and indoors (if you have a large space) if you like. But, you will need 2 additional helpers to put it all together and build the sides walls. Duration: 6-10 yours.

Contrary to most other greenhouse designs the special German engineering applied to the RIGA series, due to its unique profiles with channels, makes this unit the easiest to assembly, and when done correctly, the strongest. Panels will not be able to be blown out (except possibly by a hurricane).

**Important:** Make sure your building site is level!!! See the last page for a suggestion as to how to build a permanent foundation frame: i.e. concrete.

**Important:** Make sure to keep the Polycarbonate Glazing panels out of direct sunlight during the assembly process, as otherwise their protective film will "bake" on to the glazing itself. It will be virtually impossible to remove if this happens. Remove the protective film, on both sides, as you need the panels.

**UV Coating:** The Polycarbonate Glazing Panels are coated on one side only with a UV protective layer. Make sure this side is on the outside. Usually, the panels have a removable plastic film on both side: on one side it is plain on the other side it has writing. The side with the writing is the UV coated side. Often you will also find text (different languages) printed on one of the edges of the panels themselves. This also indicates the outside of the panels. In case you have no permanent writing on a panel we recommend you make your own markings with a permanent marker to indicate the outside.

**Step by Step Assembly:** We recommend that you follow the Step-by-Step instructions, and begin with the assembly of the back Gable/Wall, then add both side walls, the front Gable/Wall, then Doors and Windows, and shelving and rubber seals and caulk.

**Suggestion:** To keep the large Polycarbonate Panels in place, and from popping out, while you are still assembling the side walls you can use (adjustable) bungee cords: Pull them towards the back wall.

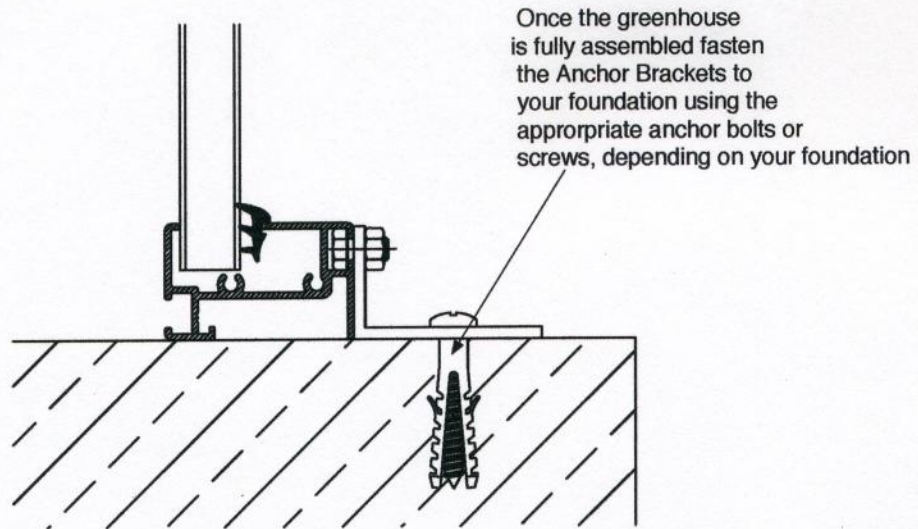
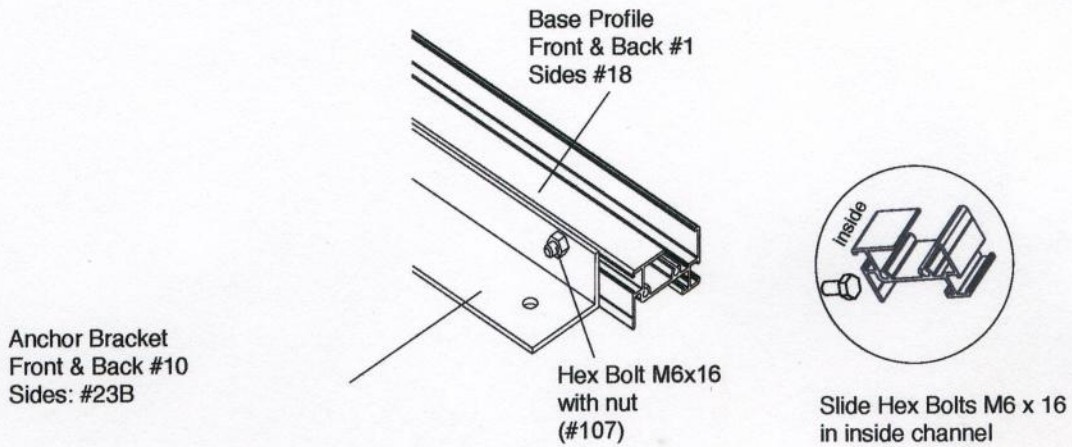
**Roof Beam Support:** It is very important that the Roof Beam stays horizontal/level when attached on one end to the top of the back Gable/Wall. One way to do this is to put a step- ladder underneath it. Another way is to add all the Curved Center Profiles on each side and spread them out evenly. Don't forget to put adequate support on both sides of the back wall while adding the Roof Beam and side Curves – you do not want it to fall over.

Don't hesitate to call Customer Service if you need any suggestions: Exaco Trading, Austin, TX 877-760-8500 – our normal operating hours are 8:30 AM – 6.30 PM.

**Anchoring of your Greenhouse: see the last page for instructions as to how to build a concrete foundation wall.**

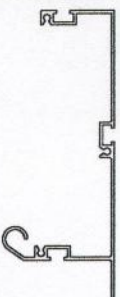



**1. Attach L-shaped anchor brackets to Base Profiles:  
As shown on this page**

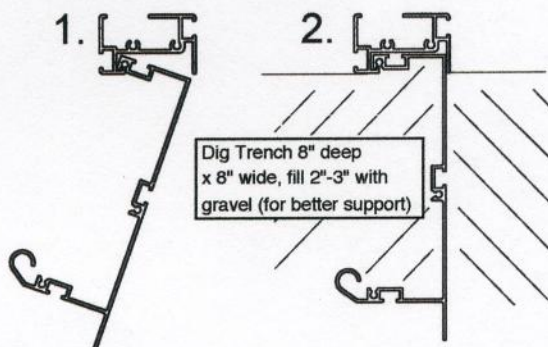
Attach the 4 "heavy" L-shaped anchor brackets - the side with the pre-drilled holes to the Base. Do not anchor these brackets to your foundation until you have fully assembled the greenhouse.



## 2. Attaching the optional Foundation Frame

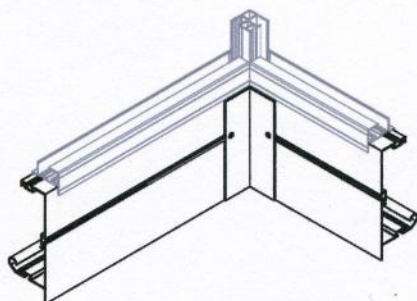
### Parts List for Foundation Frame

Profile Design	Item #	Description	quantity / length inches		
			Type IV	Type V	Type VI
	6.1	Foundation Profile for Gable ends	2 162	2 162	2 162
	6.2	Foundation Profile for sides	2 152.5	2 191.7	2 230.9
	6.3	Foundation Corner Connectors: 1.6/1.6 x 5.3 high	4 5.3	4 5.3	4 5.3
	6.4	Base Connector Plate	14 5.3	16 5.3	18 5.3
	6.5	Hex Bolts with Nuts M6x16	36	40	44

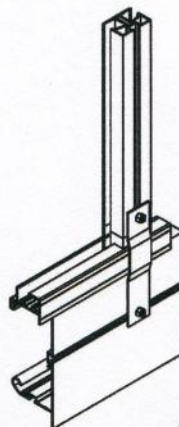


### Assembly of Foundation Frame

You can either attach the foundation by hinging it (as shown - picture #1) or by sliding foundation pieces all the way down from one end of the Base Profiles: front/back #1, sides #18. Secure them with the shelf tapping screws.



Next: Attach the corner connectors (as shown) using the hexagon head bolts and nuts. Note: Make sure to insert in the center channel as many bolts as you have uprights on each side.



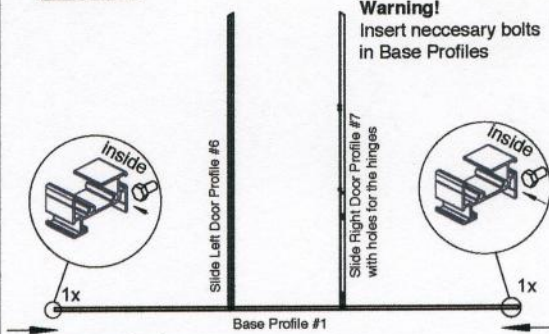
Once the greenhouse is fully assembled attach the connector plates as shown. Subsequently you can back fill the trench on both sides of the foundation frame.

**Attention:** The Corner Connectors can not be attached, until you have fully assemble the back wall and you are attaching the Base Profiles to the back wall.

## Assembly of Back Wall

(View from the outside)

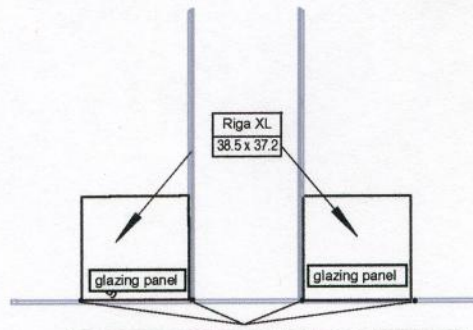
**Step 1**



**Warning!**  
Insert necessary bolts  
in Base Profiles

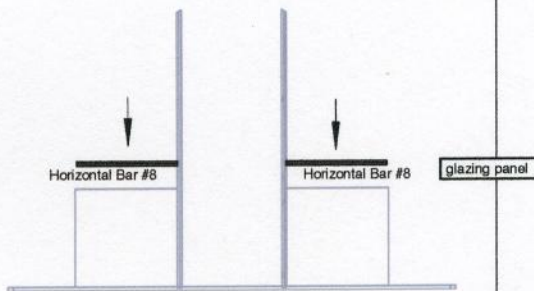
**Attention!**  
Make sure you first attach either the Anchor Bracket or  
the optional Foundation Frame to the Base Profiles  
before assembling the greenhouse (see pages 3 and 4)!

**Step 2**



Attach vertical profiles to the base profile  
with the small Phillips head screws #111

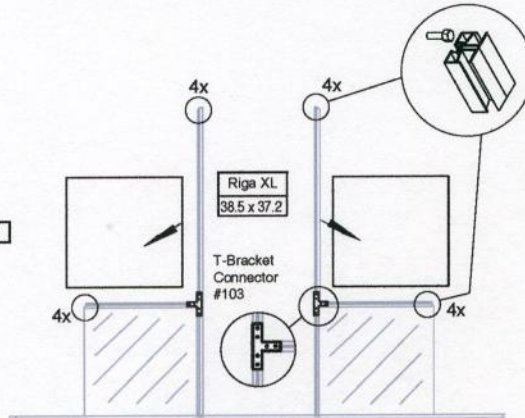
**Step 3**



**Step 4**

inside view

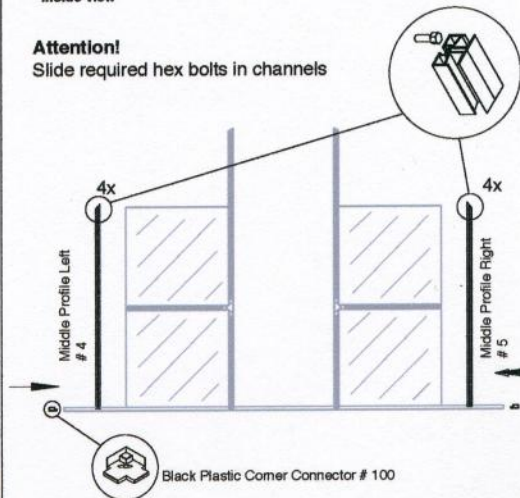
**Attention:** Slide required number of  
Hex Bolts M6x16 into the profiles!



**Step 5**

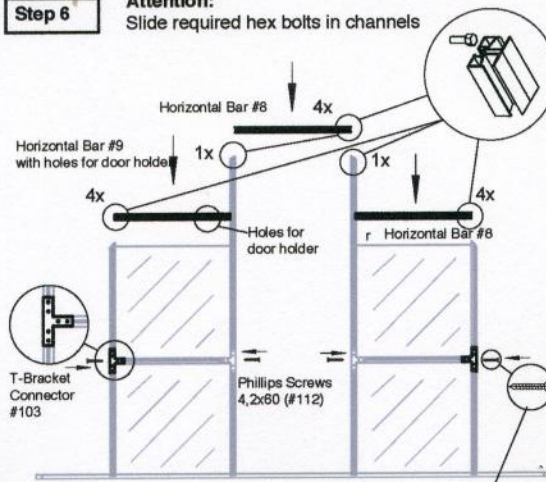
inside view

**Attention!**  
Slide required hex bolts in channels



**Step 6**

**Attention:**  
Slide required hex bolts in channels

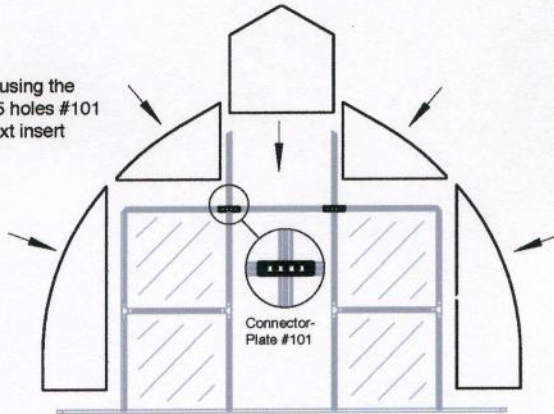


## Assembly of Back Wall

(Inside View)

### Step 7

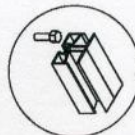
Attach Horizontal Bars (#8+#9) using the Straight Connector Plates with 5 holes #101 and the Hex Bolts and Nuts. Next insert the outer Glazing Panels.



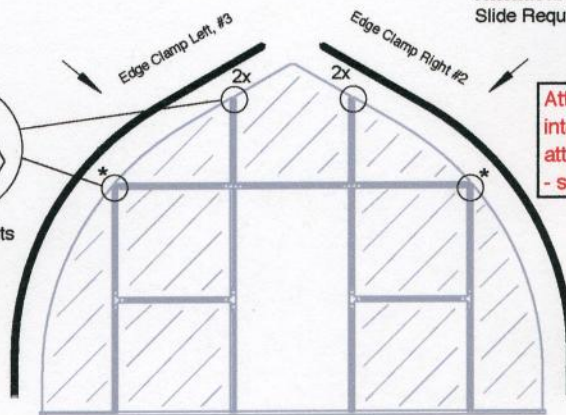
### Step 8

Attention!  
Slide Required Hex Bolts To Attach

T-connector - see next step



\* 2x hex bolts  
in middle  
uprights



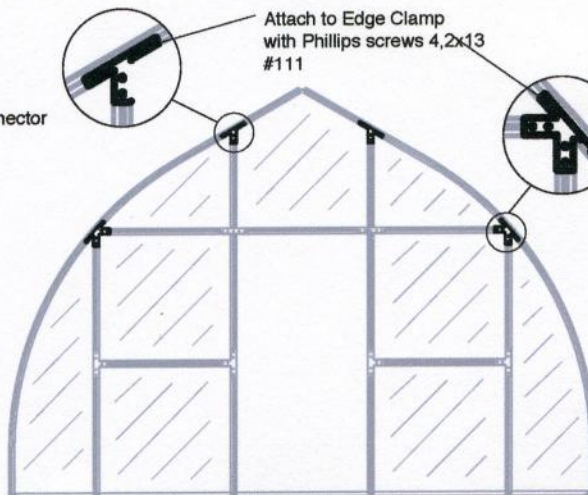
### Step 9

Attach to Edge Clamp  
with Phillips screws 4,2x13  
#111

Slanted T-connector  
#104

Slanted T-connector  
#102

Connect Edge Clamps #2 and #3 to the vertical and horizontal profiles using the T-connectors #102 and #104 as shown. Use the hex bolts in the straight profiles and screws going into the Edge Clamps.



## Assembly of Side Walls

**Step 10**

Attach Roof Beam #28 to back Gabel with Connecting Plate #114  
Phillips Head Screws 4,2x13, #111.

Use a step ladder or other method (like a 2x4) to support other end of roof beam

**Attention:** Make sure the reinforcement bar #31 is attached to the Roof Beam #28 - If not, slide both together.

**Step 11**

Use a step ladder or other method (like a 2x4) to support other end of roof beam

**Attention:** Make sure the reinforcement bar #31 is attached to the Roof Beam #28 - If not, slide both together.

**Step 12**

Insert the longest Glazing Panel on each side - they will bend. Insert first into the Base Profile then into Roof Beam, then slide/work into groove in each Edge Clamp.  
Usually, this will take 3 people.

**Step 13**

Slide a Curved Profile #19 simultaneously down the Base Profile and Roof Beam Move same distance at bottom and top. Do NOT Force - you can use rubber mallet to tap them.

**Attention:** don't forget to add 2 Hex Bolts to each curved profile to attach lateral supports to - see step 18

**Placing Roof Windows**

**Step 14** Your unit comes with 4 Roof windows. Put two on each side as shown - in a zig-zag pattern

Insert 3 Hex Bolts in each window Cross bar #25

**Attention!** Add HEX Bolt to each Curved Profile to attach cross bar under window

Continue inserting side panels and Curved Profiles until both sides are complete

**Step 15**

**Attention** Insert Hex Bolt at each end of Base Profile for Corner Connectors #105.

