ASSEMBLY INSTRUCTIONS

TOPAS greenhouse series

GARDENPRO greenhouse PHOENIX series

It is **essential** to read these instructions before assembly.

Table of contents:

IMPORTANT INFORMATION

CHECKING PARTS LISTS

We strongly recommend checking the parts of the frame as well as the twin-wall sheets for completeness on the basis of the parts list.
With the guarantee that all parts are completely available, a continuous structure is ensured and you save time and hassle of having to stop assembly.

ATTENTION:

To rule out shortfalls as far as possible, we use **the most modern weighing techniques,** and the individual packing steps are continuously and fully monitored by **exact weight checks**.
This allows us to largely rule out any shortages or any mixing up of parts.

However, if a part is damaged during transport, or if a part is missing, we will send it to you as quickly as possible.

REQUEST:

The manufacturer / importer is GFP Handels GesmbH, Passauerstr. 24, A-4070 Eferding, Austria (hereinafter also referred to as “the manufacturer“, “we“ or “us“).

If you have any questions about the assembly or the product itself, please contact the supplier through whom you purchased your product.

RETURNS POLICY FOR TWIN-WALL SHEETS

Sometimes when stapling the wall sheet cartons, **sheets** can be **slightly damaged at the side ends** by the stapler.
Please note that **twin-wall sheets normally do not have closed side edges** and this is a unique feature we offer.

Therefore, **minor damage** (any damage no longer visible either after insertion into aluminium profiles or after attachment of the plastic clips – i.e., no longer visible **further than approx. 7 mm** into the sheet) **do not constitute grounds for complaint**, since neither the function nor the appearance is impaired as a result.

Exchanging plates of this type is **only possible after returning the original plates**!

General information
Read and store the assembly instructions

These assembly instructions are part of the greenhouse you have purchased (hereinafter referred to as the “product“).
It contains important information about assembly and handling.

Read the installation instructions carefully, in particular the safety instructions, before installing and using the product. Failure to comply with these assembly instructions may result in serious injury or damage to the product.

The assembly instructions are based on the standards and rules applicable in the European Union. In other countries, the country-specific guidelines and laws must also be observed.

Please keep the assembly instructions for further use. If you pass the product on to a third party, be sure to include these assembly instructions.

Intended use

The product is designed exclusively for growing or cultivating vegetables, flowers and other plants. It is not a recreation room for people and is not suitable for storing easily combustible or flammable substances.

If a fire breaks out in the product, call the fire brigade immediately and make sure that there are no people inside the product.
The product is intended exclusively for installation in gardens or similar green areas in the private sector and is not suitable for commercial use.

The product is not a children‘s toy.

Please note that the assembly may be regulated by building regulations. Before installation, check whether and how you are allowed to install the product with your local building authority. If you violate these regulations, your permit may be withdrawn.

If you set up the product completely without permission or violate the building regulations, you may have to disassemble the product again.
Only use the product as described in this manual. Any other use is considered as not intended and may result in damage to material or even in injury to persons.
Read all safety information and instructions. Failure to comply can cause serious injury.

The manufacturer or seller accepts no liability for damage caused by improper or incorrect use.

Key

The following symbols and signal words are used in these assembly instructions, on the product or on the packaging.

This symbol gives you useful additional information for assembly or handling

This symbol/word indicates a hazard with a medium level of risk, which, if not avoided, could result in death or serious injury.

This symbol/word indicates a hazard with a low risk level which, if not avoided, can result in minor or moderate injury.

NOTE!

This signal word gives useful tips or warns of possible damage to property.

Safety instructions

WARNING!

Danger of explosion!
The product can heat up strongly due to solar radiation. Explosive substances may explode and highly flammable or combustible substances may catch fire if stored in the product.

Do not store highly flammable, highly combustible or explosive substances in the product.

WARNING!

Danger of suffocation!
Small children can put individual assembly parts in their mouths and swallow them or get caught in the packaging film. In both cases, they can suffocate in the process.

- Keep small children away from all assembly parts and the assembly site.
- Make sure that small children do not put small parts in their mouths.
- Do not allow children to play with the packaging material.

WARNING!

Risk of injury!
During assembly, there is a particular risk of injury for children and people with reduced physical, sensory or mental abilities. They may not be able to assess the risks correctly.

- During assembly, there is a particular risk of injury for children and people with reduced physical, sensory or mental abilities.
- Do not allow children or people with reduced physical, sensory or mental capabilities to assemble, clean, maintain or repair the product.

WARNING!

Risk of injury!
When stepping on the roof, you can break through the roof due to your weight.

Do not walk on roof surfaces! Risk of falling!

NOTE!

Risk of damage!
Improper handling of the product may result in damage to the product.

- Close the door and windows in wind and storms.
- Free the product from snow and ice.

The roof is not designed to support a snow depth of more than 10 cm. A depth of 36 cm for dry snow, 10 cm for wet snow and 5.5 cm for ice correspond to a weight of approx. 50 kg/m². The roof cannot support the weight of a person!

- Do not place heavy materials on the roof or on the glazing sheets of the product.
- Do not strike the twin-wall sheets with hard objects at low temperatures below freezing point. These may break as a result.

Do not step on the product if the individual parts are cracked or deformed. Only replace damaged components with suitable original spare parts.

- Do not group several products together in one location.

The manufacturer is not liable for storm, wind, water or snow load damage (we recommend that you remove snow from the roof during the winter months) The warranty does not cover compensation for consequential damage or financial loss.

- To prevent theft, we recommend attaching a padlock (not included in the delivery contents) to the sliding door.

Before assembly
Check product and delivery contents

NOTE!

Risk of damage!

The product can be quickly damaged if you are not careful when opening the packaging with a sharp knife or another pointed object.

- Be very careful when opening it.

1. Take the individual parts of the product out of the packaging.
2. Use the parts lists to check whether the delivery is complete.
3. Check whether the individual parts of the product are damaged. If this is the case, do not assemble or use the product.
Contact
our service centre by email or telephone.

Determine the installation site

NOTE!

Risk of damage!

Improper handling of the product may result in damage to the product.

- Place the product in an easily accessible location that provides a minimum of protection from the wind.

- Only place the foundation and the product on sufficiently solid ground.

- If possible, do not place the product at the edge of your garden, so that it is accessible from all sides.

- Place the product on a suitable foundation and attach the product to it.

- Place the product in a suitable location only.

Preparing the foundation

NOTE!

Risk of damage!

The product is made of lightweight aluminium and hollow twin-wall sheets and is therefore not very heavy. In addition, because of its size, it offers a lot of loading surface for wind and storms, and must be secured particularly well.

- Secure the product firmly to the foundation to prevent wind and storm damage.

To install the product securely, fix it to a foundation. The foundation can be made of concrete or masonry.

The screws, brackets and dowels for securing the product to the foundation are not included in the delivery contents.

This is how you should install the foundation:

- Build the foundation at right angles in a suitable place. Foundation options include a strip foundation made of poured concrete, a strip foundation made of concrete blocks, a strip foundation made of concrete slabs or a point foundation made of concrete.

- Make sure that the foundation protrudes at least 50 mm from the ground.

Further information on the foundation and the foundation dimensions can be found on page 12.

Assembly instructions

WARNING!

Perform the assembly step by step and with great care. If you do not follow these assembly instructions exactly, mistakes can be made, which may be life-threatening.

- Assemble the product with great care and step by step, as specified in the assembly instructions.
- Assemble the product with at least two adults present.
- Wear protective gloves, goggles and safety shoes during assembly.
- Safeguard each other well while assembling the upper parts of the greenhouse. This is particularly important when standing on the ladder.
- Do not step on the roof of the greenhouse. There is a danger of falling off or through the roof.

CAUTION!

Risk of injury by cutting!

There may be sharp edges on the aluminium profiles. If you do not blunt the edges, you can cut yourself on them.

- Blunt sharp edges on the aluminium profiles with a file so that you do not cut yourself or get caught on them.

NOTE!

Risk of damage!

Movements during the assembly operations can loosen screw connections again somewhat. The product may become unstable as a result.

- After assembly, tighten all screw connections using an open-ended or ring spanner.

Assembly instructions

With twin-wall sheets, it should be noted that there is an interior side and an exterior side. The side with film on it or the side labelled “OUTSIDE“ has a UV-protective coating. To avoid confusion, always remove the foil only after inserting each sheet.

Assembly and safety instructions (briefly summarised)

Dear Customer,
You have acquired a meticulously constructed greenhouse, made by people for whom precision has become a tradition. The compact design allows for quick assembly. The possible applications are very versatile.
We reserve the right to make further developments in the interest of technical progress.
We ask for your understanding that minor deviations from the illustrations and descriptions may arise. We wish you every success with your new garden jewel.

PLEASE NOTE:
Before assembly, identify the aluminium profiles and check the quantities and dimensions.
Before assembling the greenhouse, make sure that no parts are missing on the basis of the individual parts list.
We are unable to pay any additional expenses paid to installation companies as a result of customers failing to conduct a proper inspection in advance of assembly.

If spare parts are required, please contact the seller and let them know the item number of the part you need.

With twin-wall sheets, it should be noted that there is an interior side and an exterior side. The side with film on it or the side labelled “OUTSIDE“ is covered with a UV-protective coating. To avoid confusion, always remove the foil after inserting each sheet.

The foundation can be made of concrete or masonry. Your greenhouse must have a firm footing and must be properly secured (see sketches on page 10) – we therefore strongly recommend that you place the greenhouse on a foundation.

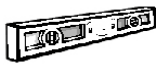
CAUTION – Safety instructions for assembly!
Assembly should be carried out by 2 people. We recommend wearing protective gloves, safety goggles and safety shoes when assembling the frame and glazing (risk of injury and breakage!). After complete assembly, all screw connections must be tightened again using a spanner.

NOTE!
The manufacturer is not liable for storm, wind, water or snow load damage **(we recommend that you remove snow from the roof during the winter months)**. The warranty does not cover compensation for consequential damage or financial loss. If there is visible damage to components, they must be replaced with original spare parts.

TOOL LIST:
The following tools are required for assembly:



Wrench size 10


3 mm

EXPLANATION OF SIGNS AND TERMS:
The following symbols are used in our assembly instructions:


Attention! Important!


This compenent


component is moved!

Assembly order

IT IS ESSENTIAL TO READ THE ASSEMBLY INSTRUCTIONS BEFORE STARTING THE ASSEMBLY.

THIS WILL SAVE YOU TIME, AVOID UNNECESSARY ERRORS AND YOU WILL HAVE ALREADY GAINED IMPORTANT INSIGHTS FOR THE ASSEMBLY.

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Warranty statement

In addition to the seller‘s statutory liability for defects in greenhouses purchased from us, we also assume a 15-year warranty on the assembly and frame and a 10-year warranty on our hollow chamber panels.

The warranty period begins with the date of taking charge of the goods. Any replacement deliveries shall not result in an extension of the warranty period.

The warranty for our greenhouses applies exclusively to the assembly and frame.
Not covered by the warranty are delivery components such as seals, plastic parts and fasteners/joining elements. Similarly, the warranty does not extend to our extra greenhouse accessories.

The warranty for our twin-wall sheets extends exclusively to their weather resistance. It only applies in connection with the purchase of one of our greenhouses.

If justified claims arise under the warranty, the following warranty plan applies to the twin-wall sheets:

Time from date of purchase of material replacement
Up to 5 years 100%
In the 6th year 75%
In the 7th year 60%
In the 8th year 45%
In the 9th year 30%
In the 10th year 15%

The basic prerequisite for claims under the warranty is a professional installation and proper maintenance of both the frame and the hollow-chamber twin-wall sheets.

The warranty expires in the event of reassembly.

Furthermore, the warranty does not cover defects and damage directly or indirectly attributable to the following:
- Using a material in a way that does not comply with our instructions
- Damage caused by improper handling before, during or after the assembly work
- Damage caused by force majeure
- Inappropriate foundations and fastenings
- An unsuitable location (e.g., with a particular wind or heat load)
- Insufficiently secured greenhouse anchoring
- On-site modifications made to the delivered item
- Improper cleaning with unsuitable cleaning agents (including aggressive cleaning agents, salt water, etc.)
- Lack of product care (cleaning)
- Contact of the material with incompatible chemicals
- Incorrect installation of the double or triple-wall sheets and causing scratches and stresses, or the use of incompatible adhesives or sealants or other incompatible materials

Materials
- Colour changes to the powder-coated surface caused by solar radiation
- A surface change of the press-finished parts caused by the formation of a natural oxide layer
- Maintenance joints (silicone joints)
- Commercial use

Warranty claims can only be made with the original purchase receipt, provided that the customer has fulfilled all payment obligations under the purchase contract.
If a warranty claim is made within the granted warranty period and is considered to be justified,
we will supply material replacement free of charge. This warranty does not cover any other warranty claims, such as compensation for direct or indirect damage or other consequential damage.

Any further liability, e.g., for the removal or installation of claimed or subsequently delivered parts, as well as for other ancillary costs or consequential damages, is not covered under this warranty.
Such liability exists only within the framework of the legal requirements.

The roof of your greenhouse must be cleared of snow and ice during the winter months!

Warranty in case of complaints/claims:

Despite careful handling in production and shipping, there may be reasons for claims. In this case, we therefore ask for your support so that the missing or defective parts can be delivered and/or re-delivered as soon as possible.

Therefore, to ensure a smooth assembly, we recommend checking the delivered goods for completeness and intactness using the supplied parts list before assembly.
If you find that parts are missing or damaged, please inform us of the parts you need by email so that we can arrange for them to be delivered as soon as possible.

The scope of warranty covers only the free replacement of the defective or broken part. Consequential or additional costs, in particular, delivery and assembly or conversion costs, are not included in the scope of warranty.

For information purposes, here is the legal basis, in brief, on which both we as a supplier and our customers may rely on:

Warranty

Warranty refers to customers‘ and buyers‘ rights to receive goods which are not defective. The defects at the time of purchase can be very different in nature:

- The product does not function as promised and expected.
- The product does not correspond to the specified and purchased size.
- The external part of the product is defective.

If such a defect becomes apparent, then the warranty is valid for a period of two years. The buyer can report this defect through a complaint to the seller and demand rectification. On the other hand, a seller is not obliged to exchange the product.

What is a buyer entitled to in the event of a complaint?

The law defines exactly what rights and claims buyers have in the event of a complaint. Buyers should note that the law divides the claims into two successive stages. In plain language, this means: if a buyer submits a complaint, they cannot immediately withdraw from the purchase contract. Nor can they immediately claim compensation in monetary form, although the law lists this as an eventual possibility. In the event of a complaint, the seller must first be given the opportunity to repair the product. This is done, for example, by...

- repairing the product.
- exchanging the product.

Only if the seller lets a deadline elapse and does not comply with the claim for rectification due to the complaint, can buyers withdraw from the purchase contract or claim financial compensation in the second step.

Based on the legal basis, the following applies:

- Warranty claims are limited to the replacement of faulty or missing material.
- There will only be financial compensation, without exception, if we are unable to remedy the defect by replacing the product!
- Defective components that have already been installed or painted are excluded from replacement.
- All other claims are excluded!

Foundation types

A supporting role – the greenhouse foundation

With a solid greenhouse foundation, do-it-yourselfers have the guarantee that their building will withstand extreme weather conditions and that their valuable plants will be reliably protected against the weather.
As a load-bearing substructure, the greenhouse foundation should guarantee structural integrity under all conceivable weather conditions. The foundation must be capable of absorbing all static forces such as dead load and roof load, wind pressure and wind suction.
Furthermore, it must not sink into the ground or lift off from the ground if it is a lightweight assembly. Also, the foundation provides the added benefit of protecting against heat loss through the ground, which is particularly important for the plants in the greenhouse.
Installing a greenhouse in the garden without appropriate anchoring is not recommended.

Does every greenhouse need a foundation?

In principle, a foundation is required for almost every project in which a building is in contact with the ground. **A greenhouse should also stand on a firm foundation.**

Overview of common foundation options


Concrete strip foundation


Strip foundation made of prefabricated concrete blocks


Strip foundation made of concrete slabs


Concrete point foundation

Explanation of other product designation

Various trade partners also sell the TOPAS greenhouses under the product name PHOENIX. Here is a brief overview of which PHOENIX models correspond to which TOPAS models. For the sake of simplicity, only the TOPAS designation is used in the instructions.
If you have purchased the greenhouse as an PHOENIX model, please clarify at the beginning which TOPAS model you are dealing with – thank you!

The model	corresponds to the model
PHOENIX 225X133 greenhouse	**TOPAS 2** greenhouse
PHOENIX 225X195 greenhouse	**TOPAS 3** greenhouse
PHOENIX 225X259 greenhouse	**TOPAS 4** greenhouse
PHOENIX 225X322 greenhouse	**TOPAS 5** greenhouse
PHOENIX 225X384 greenhouse	**TOPAS 6** greenhouse
PHOENIX 225X449 greenhouse	**TOPAS 7** greenhouse

INSTRUCTIONS FOR MAINTENANCE AND USE:

- Every 3 to 4 months, check the screw connections of your greenhouse and tighten them if necessary.
- After strong winds or storms, check that the twin-wall sheets and screw connections are fitted securely.
- In windy and stormy weather, windows and doors must be closed.
- When temperatures are below freezing, do not strike the twin-wall sheets with hard objects.
- The roof of your greenhouse must be cleared of snow and ice during the winter months.

(Caution! – The roof cannot support the weight of a person!)

- The national building regulations must be observed.

FOUNDATION

You can place your new greenhouse on a previously constructed concrete or masonry foundation (see Figure 1).
The foundation must be right-angled and level. Place your finished greenhouse on the foundation. You have two options for securing the greenhouse:

OPTION A:

Drill a hole through the floor profile. (See detail A). Secure the greenhouse to the foundation using suitable screws and dowels. (not included in the delivery contents)

VARIANT B:

Securing the greenhouse using brackets. These brackets can be fixed to the floor profile using screws (see detail B). No drilling work on the greenhouse is necessary for this. The greenhouse can then be attached to the foundation with suitable dowels and screws. (The brackets are not included in the delivery.)

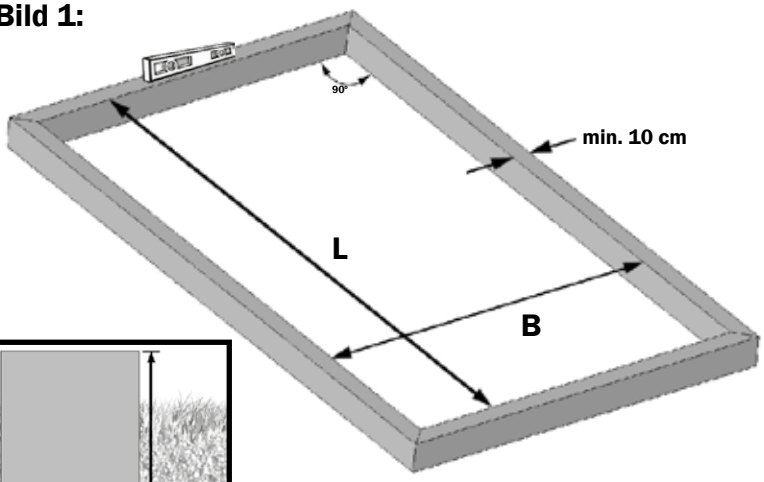
NOTE! Dowels, screws and ground anchors are not included in the delivery. Your greenhouse is made of lightweight aluminium and hollow twin-wall sheets. Neither has a particularly heavy weight. However, storms and wind have a particularly large loading surface. For this reason, anchor your greenhouse securely to the floor. Pay particular attention to the quality of the materials used!

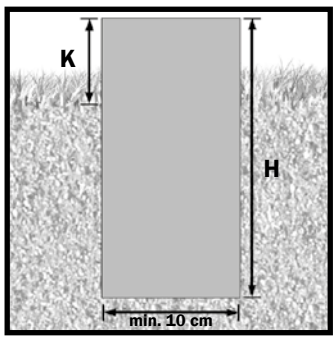
CONCRETE OR MASONRY FOUNDATION

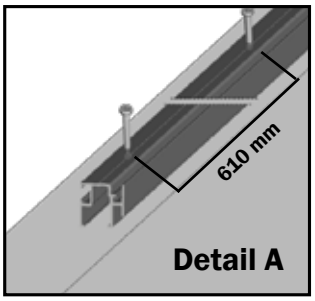
Here, you will find the matching dimensions:

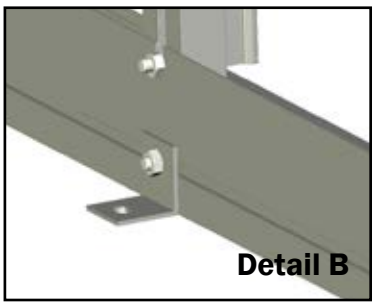
Model	Width [B] Inner dimensions	Length [L] Inner dimensions	Height [H]	Level [K]
TOPAS 2 greenhouse	2110 mm	1190 mm	approx. 80 cm	min. 50 mm
TOPAS 3 greenhouse	2110 mm	1810 mm	approx. 80 cm	min. 50 mm
TOPAS 4 greenhouse	2110 mm	2450 mm	approx. 80 cm	min. 50 mm
TOPAS 5 greenhouse	2110 mm	3080 mm	approx. 80 cm	min. 50 mm
TOPAS 6 greenhouse	2110 mm	3700 mm	approx. 80 cm	min. 50 mm
TOPAS 7 greenhouse	2110 mm	4350 mm	approx. 80 cm	min. 50 mm
TOPAS 8 greenhouse	2110 mm	4990 mm	approx. 80 cm	min. 50 mm
TOPAS 9 greenhouse	2110 mm	5610 mm	approx. 80 cm	min. 50 mm

Bild 1:



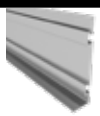




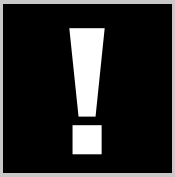


Assembly instructions for the aluminium foundation (optional accessory)

Parts list

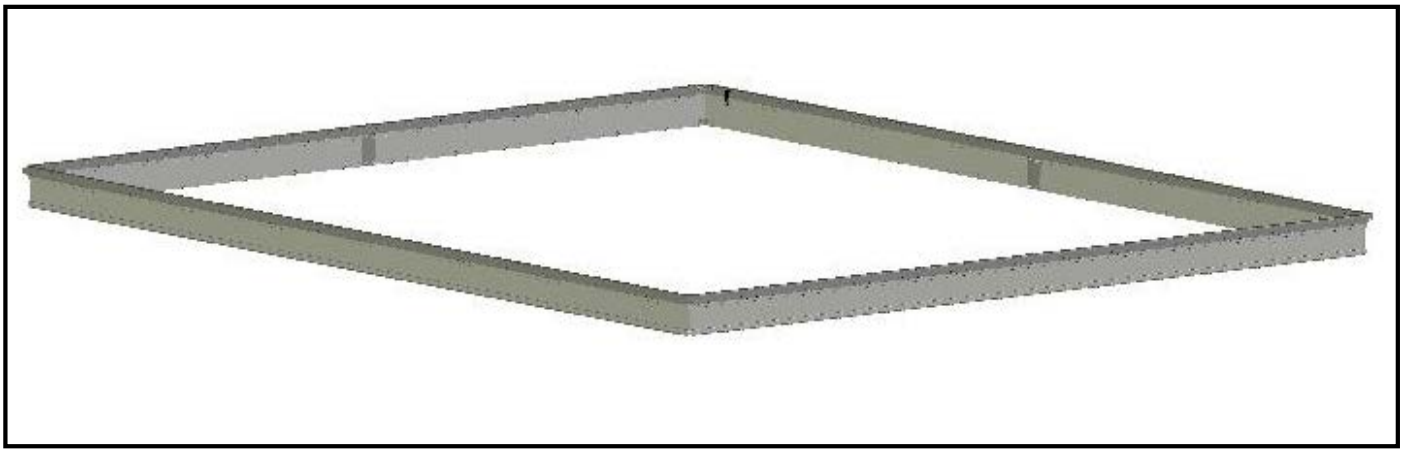
SKETCH	PART. NO.	DESIGNATION	LENGTH	TOPAS 2	TOPAS 3	TOPAS 4	TOPAS 5	TOPAS 6	TOPAS 7	TOPAS 8	TOPAS 9
	24-1097.1 24-1267.1 24-1892.1	Foundation profile 1097 Foundation profile 1267 Foundation profile 1892	1097 mm 1267 mm 1892 mm	4 2 -	4 - 2	4 4 -	4 2 2	4 6 -	4 4 2	4 8 -	4 6 2
	21-0050.1	Foundation longitudinal connector	50 mm	2	2	4	4	6	6	8	8
	25-0020.1	Foundation bracket	20 mm	12	12	16	16	20	20	24	24
	NG210	Foundation corner connector		4	4	4	4	4	4	4	4
	9040556	Drilling screw, 4.8 x 13		24	24	32	32	40	40	48	48
	690509	M6x12 mm screw		24	24	32	32	40	40	48	48
	690547	M6 nut		24	24	32	32	40	40	48	48

IMPORTANT NOTE!



If you have decided to purchase an aluminium foundation, please note that before the actual assembly of the greenhouse, the foundation profiles must be attached to the greenhouse floor profiles!

To do this, the floor profiles are each connected to the foundation profiles with two foundation brackets.



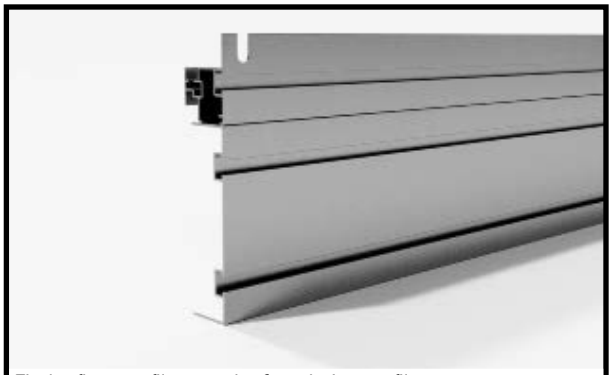
STEP 1 – Fitting the floor profiles onto the foundation profiles

In each case, make sure that the floor profile, which is placed on the foundation profile, is the same length.

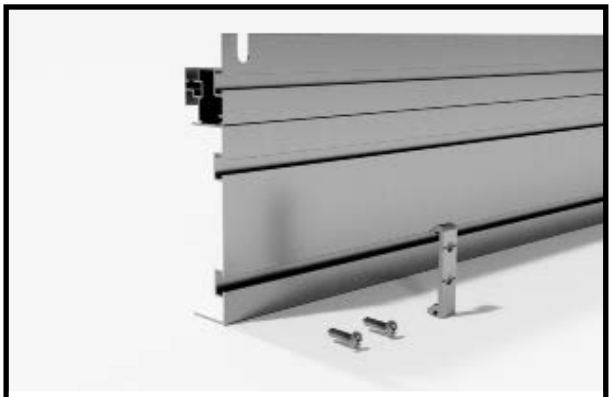
Make sure that the profiles are exactly flush.

Note:
Each of the floor profiles is screwed to the foundation profile with two foundation brackets.

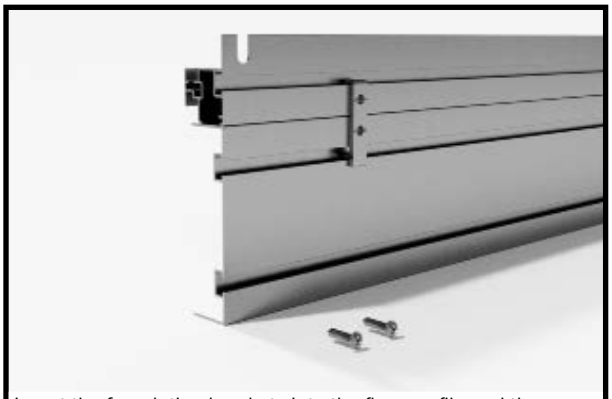
Pick up one floor profile and one foundation profile of the same length.



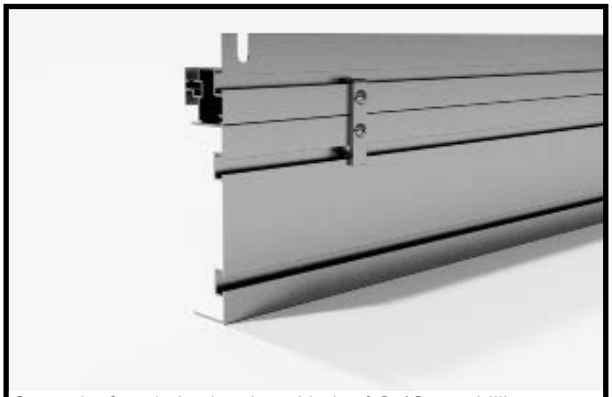
Fit the floor profile onto the foundation profile.
Make sure that the ends of the two profiles are exactly flush.



Pick up the foundation bracket and the 4.8x13 mm drilling screws.



Insert the foundation brackets into the floor profile and the foundation profile approximately 10 cm away from the ends.



Screw the foundation bracket with the 4.8x13 mm drilling screws.

NOTE

After fitting the floor profiles, please start assembling the greenhouse.

To do this, go to page 22 of the Assembly Instructions.

Please note that when connecting the longitudinal profiles, as well as when assembling the longitudinal sections on the front and the rear wall, there are differences in the figures in the instructions.
You will find the corresponding images below.

Assembling the aluminium foundation

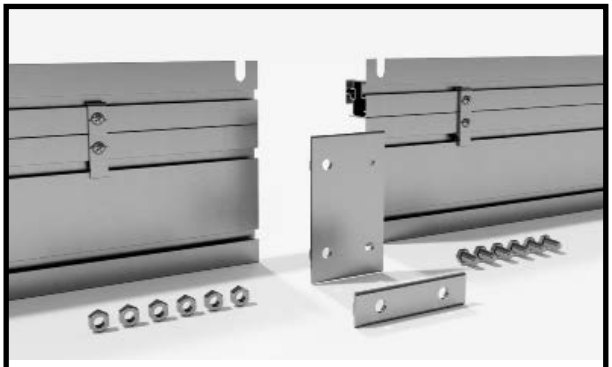
Connecting the longitudinal parts

When connecting the floor profiles, please make sure that both the floor profiles and the foundation profiles are screwed together with the corresponding connector parts.

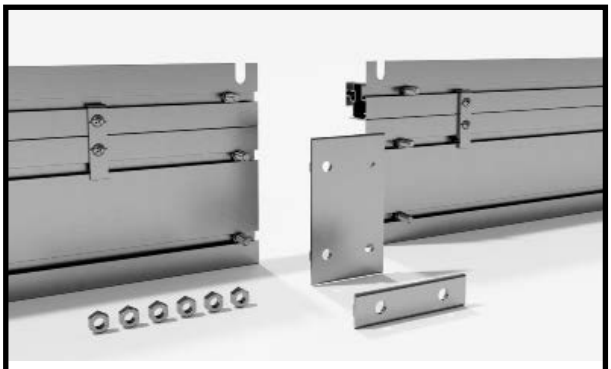
Before screwing them in, press the profiles firmly against each other so that there is no gap!

Note:

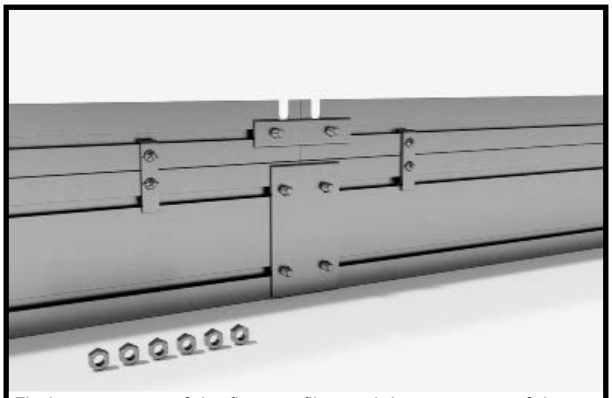
The following steps replace the steps shown on page 45, Figures 2a to 2d



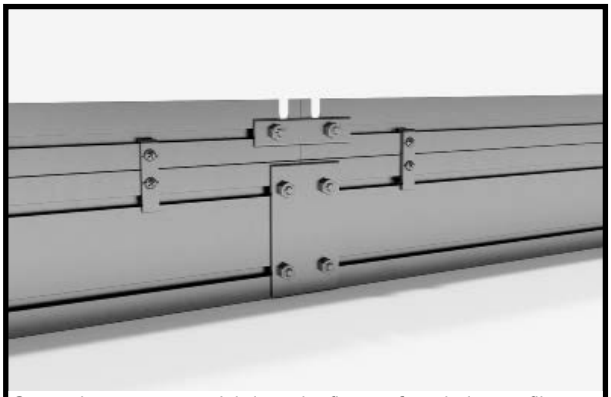
Pick up one connector part for the floor profiles, one connector part for the foundation profiles, six M6x12 mm screws and six M6 nuts.



Insert one M6x12 mm screw each into the floor profile of the greenhouse on the left and right and one screw each into the screw channels of the foundation profile.



Fit the connector of the floor profiles and the connector of the foundation profile.



Screw the connectors tightly to the floor or foundation profiles with one M6 nut each.

Screwing the floor profiles to the front and rear wall.

Make sure that the bottom profile is first screwed to the side edge profile. Then screw the greenhouse floor joint to the bottom profiles of the front and side walls.

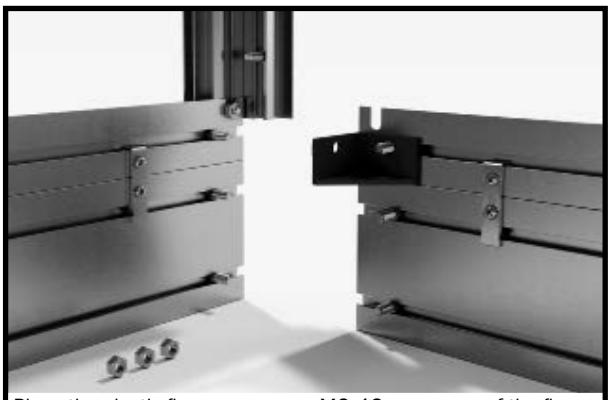
Then align the screws of the foundation profiles, Correctly position the foundation corner joint and screw it tightly to the foundation profiles.

Note:

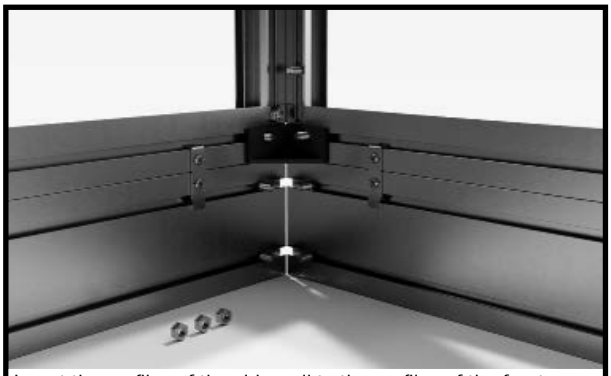
The following steps replace the steps shown on page 49, Figures 3a to 3g

Pick up the plastic floor joint, seven M6x12 mm screws, and M6 nuts. Insert one screw at a time into the screw channel of the floor profile.

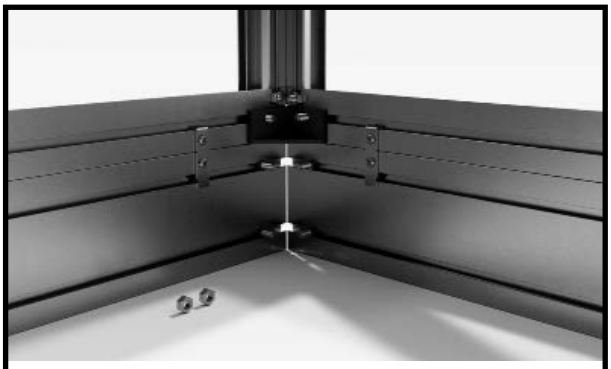
Insert one M6x12 mm screw into each of the screw channels of the foundation profiles and into the screw channel of the side edge profile.



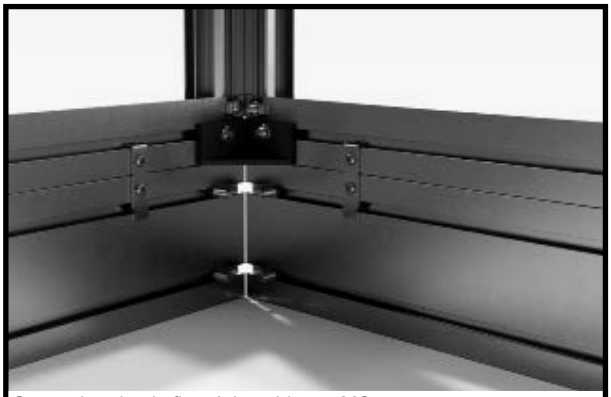
Place the plastic floor corner on a M6x12 mm screw of the floor profile.



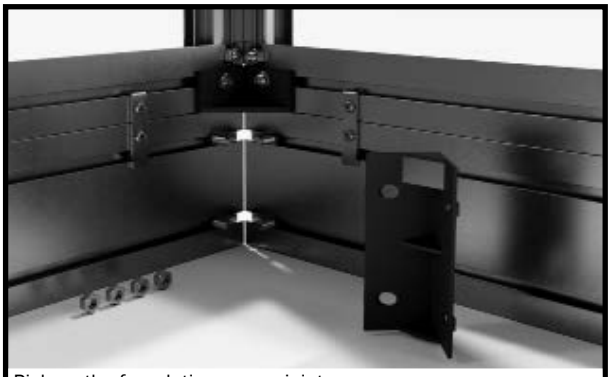
Insert the profiles of the side wall to the profiles of the front or rear wall. This also guides the second M6x12 mm screw through the hole in the plastic floor corner.



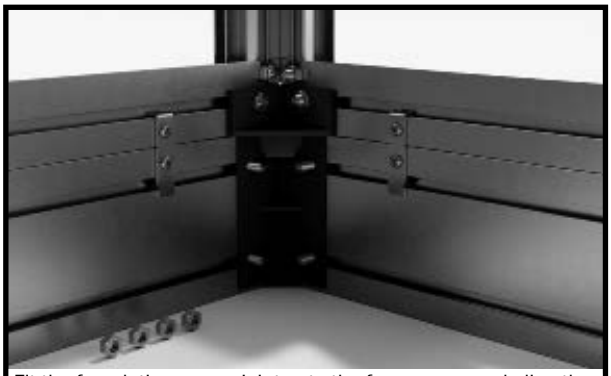
Slide the screw that was guided into the screw channel of the side edge profile into the punchout of the floor profile and screw it tightly with an M6 nut.



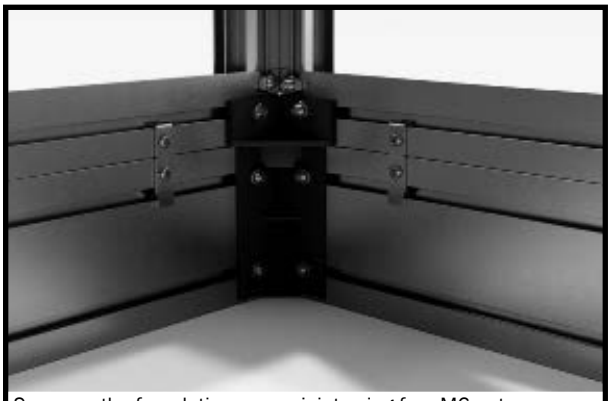
Screw the plastic floor joint with two M6 nuts



Pick up the foundation corner joint.
Align the screws in the screw channels of the foundation profiles.

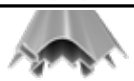


Fit the foundation corner joint onto the four screws and align the corner joint so that it is positioned exactly in the corner of the foundation profiles.



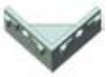
Screw on the foundation corner joint using four M6 nuts.

Parts list

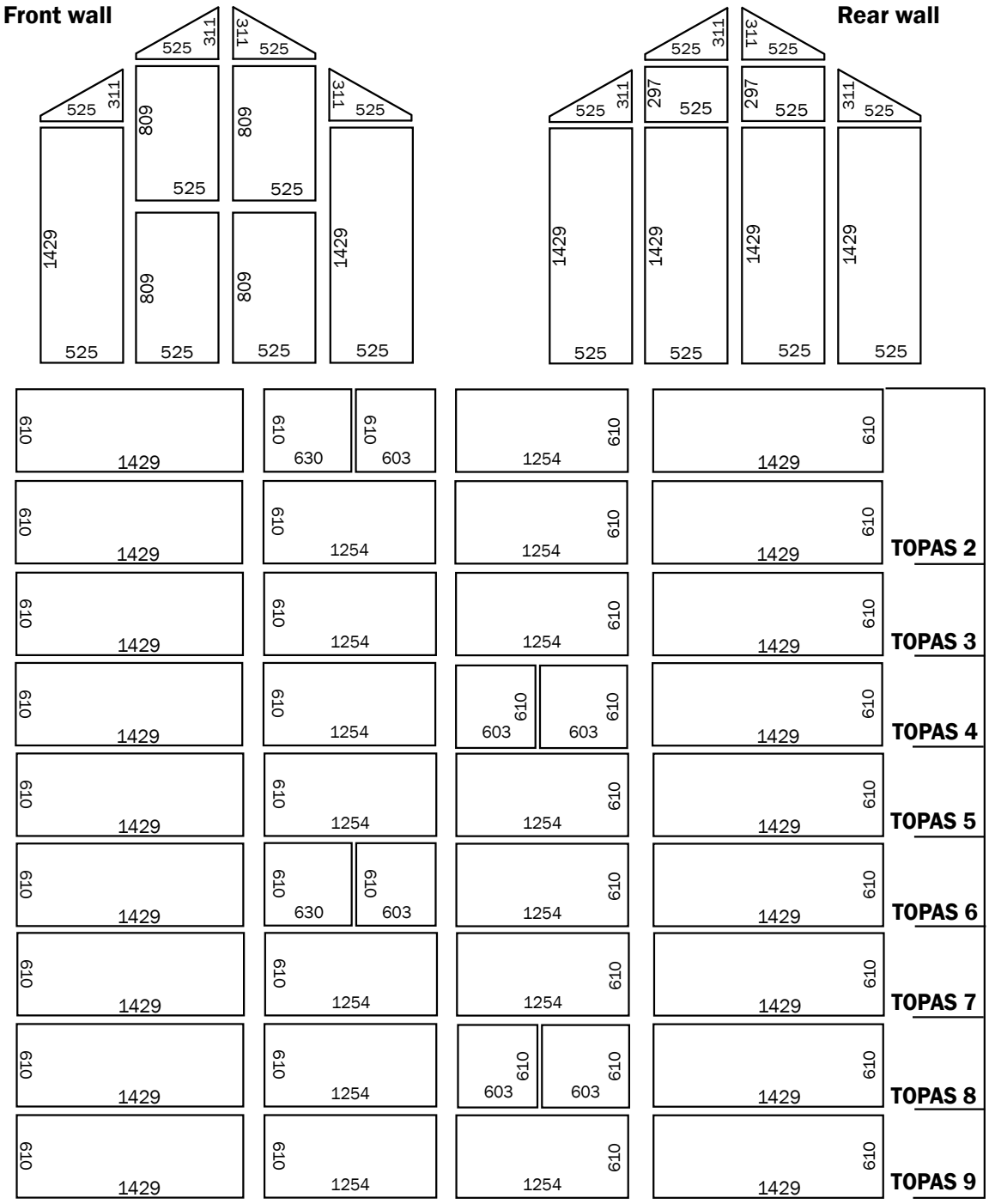
SKETCH	PART. NO.	DESIGNATION	LENGTH	TOPAS 2	TOPAS 3	TOPAS 4	TOPAS 5	TOPAS 6	TOPAS 7	TOPAS 8	TOPAS 9
	01-1097.1	**Floor profile, front/rear wall**	1097 mm	4	4	4	4	4	4	4	4
	02-1417.1	**Side edge profile**	1417 mm	4	4	4	4	4	4	4	4
	06-1417.1	**Asymmetrical terminal strip** for the side edge profile	1417 mm	4	4	4	4	4	4	4	4
	08-1243.1	**Roof corner profile**	1243 mm	4	4	4	4	4	4	4	4
	06-1243.1	**Asymmetrical terminal strip** for the roof corner profile	1243 mm	4	4	4	4	4	4	4	4
	19-1127.1	**Cross strut**	1127 mm	2	2	2	2	2	2	2	2
	13-0288.1	**Roof support**	288 mm	2	2	2	2	2	2	2	2
	06-0288.1	**Asymmetrical terminal strip** for the roof support	288 mm	4	4	4	4	4	4	4	4
	15-1717.1	**Door frame profile**	1717 mm	2	2	2	2	2	2	2	2
	12-1717.1	**Strut, rear wall**	1717 mm	2	2	2	2	2	2	2	2
	07-1717.1	**Symmetrical terminal strip** for the rear wall strut	1717 mm	2	2	2	2	2	2	2	2
	13-1717.1	**Coupling strut, rear wall**	1717 mm	1	1	1	1	1	1	1	1
	06-1717.1	**Asymmetrical terminal strip** for the rear wall coupling strut	1717 mm	2	2	2	2	2	2	2	2
	15-0594.1	**Window stop**	594 mm	1	1	2	2	3	3	4	4
	03-0622.1	**Window hinge profile**	622 mm	2	2	4	4	6	6	8	8
	04-0587.1	**Window profile, side**	587 mm	2	2	4	4	6	6	8	8
	20-1705.1	**Door frame upright**	1705 mm	4	4	4	4	4	4	4	4
	11-1128.1	**Door rail**	1128 mm	2	2	2	2	2	2	2	2
	17-0522.1	**Door profile, top**	522 mm	2	2	2	2	2	2	2	2
	16-0522.1	**Door profile, middle**	522 mm	2	2	2	2	2	2	2	2
	18-0522.1	**Door profile, bottom**	522 mm	2	2	2	2	2	2	2	2
	1502-0299.1	**Door rail support**	299 mm	2	2	2	2	2	2	2	2

SKETCH	PART. NO.	DESIGNATION	LENGTH	TOPAS 2	TOPAS 3	TOPAS 4	TOPAS 5	TOPAS 6	TOPAS 7	TOPAS 8	TOPAS 9
	01-1267.1 01-1892.1	Floor profile, 2-section Floor profile, 3-section	1267 mm 1892 mm	2 -	- 2	4 -	2 2	6 -	4 2	8 -	6 2
	14-1267.1 14-1892.1	Rain gutter, 2-sector Rain gutter 3-sector	1267 mm 1892 mm	2 -	- 2	4 -	2 2	6 -	4 2	8 -	6 2
	05-1267.1 05-1892.1	Ridge, 2-sector Ridge 3-sector	1267 mm 1892 mm	1 -	- 1	2 -	1 1	3 -	2 1	4 -	3 1
	12-1417.1	Side wall strut	1417 mm	2	4	4	6	6	8	8	10
	07-1417.1	Symmetrical terminal strip for the side wall strut	1417 mm	2	4	4	6	6	8	8	10
	12-1243.1	Roof strut	1243 mm	2	4	4	6	6	8	8	10
	07-1243.1	Symmetrical terminal strip for the roof strut	1243 mm	2	4	4	6	6	8	8	10
	13-1417.1	Coupling strut, sidewall	1417 mm	-	-	2	2	4	4	6	6
	06-1417.1	Asymmetrical terminal strip for the side wall coupling strut	1417 mm	-	-	4	4	8	8	12	12
	13-1243.1	Coupling strut, roof	1243 mm	-	-	2	2	4	4	6	6
	06-1243.1	Asymmetrical terminal strip for the roof coupling strut	1243 mm	-	-	4	4	8	8	12	12
	1502-1497.1	Wind bracing, front/rear wall	1497 mm	4	4	4	4	4	4	4	4
	1502-1526.1	Wind bracing, side wall	1526 mm	4	4	4	4	4	4	4	4
	1502-1365.1	Wind bracing, roof	1365 mm	4	4	4	4	4	4	4	4
	1502-0554.1	Wind bracing, horizontal	554 mm	4	4	4	4	4	4	4	4
	10-0495.1	H-profile	495 mm	6	6	6	6	6	6	6	6
	23-0070.1	Longitudinal connector	70 mm	2	2	7	7	12	12	17	17
	22-0058.1	Gusset plate, gable support	58 mm	2	2	2	2	2	2	2	2
	126-0025.1	Reinforcement for ridge and rain gutter	25 mm	-	-	3	3	6	6	9	9

Parts list

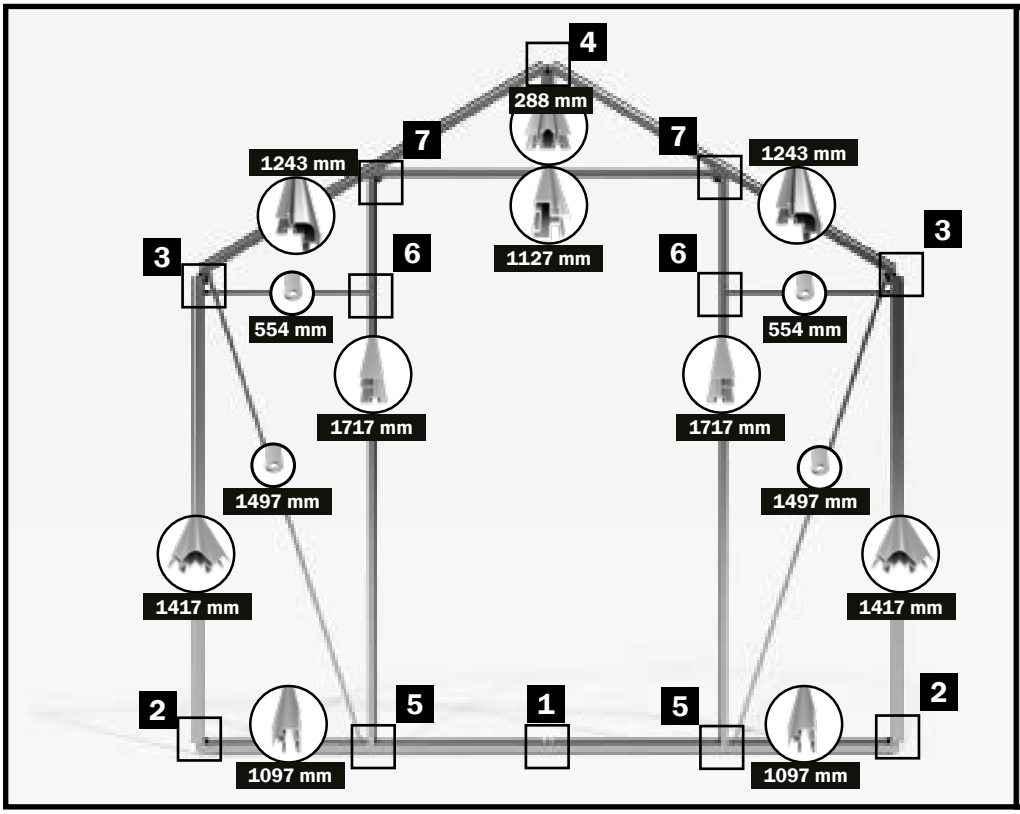
SKETCH	PART. NO.	DESIGNATION	LÄNGE	TOPAS 2	TOPAS 3	TOPAS 4	TOPAS 5	TOPAS 6	TOPAS 7	TOPAS 8	TOPAS 9
	NG501	Zinc die-cast connector		6	6	6	6	6	6	6	6
	NG202L	Drain pipe, left		2	2	2	2	2	2	2	2
	NG202R	Drain pipe, right		2	2	2	2	2	2	2	2
	NG203	Floor joint		4	4	4	4	4	4	4	4
	NG204	Ridge covering		2	2	2	2	2	2	2	2
	NG205	Joint cross strut		4	4	4	4	4	4	4	4
	NG206	Connecting joint, straight		2	2	4	4	6	6	8	8
	NG209	Door roller		4	4	4	4	4	4	4	4
	NG201	Door rail protection		2	2	2	2	2	2	2	2
	NG207	Plastic connector Rain gutter		-	-	2	2	4	4	6	6
	690509	M6x12 mm screw		118	122	158	162	198	202	238	242
	690547	M6 nut		124	128	166	170	208	212	250	254
	664753	Tapping screws, 4.2x22 mm		12	12	16	16	20	20	24	24
		Drilling screw, 3.9x13		64	76	100	112	136	148	172	184
	690622	Rhombus screw, M6x12 mm		2	2	4	4	6	6	8	8
	664555	Axle pin		4	4	4	4	4	4	4	4
	7641450	Retaining clips, roof corner profile	1450 mm	4	4	4	4	4	4	4	4
	7641270	Retaining clips, rain gutter	1270 mm	2	3	4	5	6	7	8	9
	CT510 GAR3440	Hobby door seal	3440 mm	2	2	2	2	2	2	2	2
	665958	Hobby window stay		1	1	2	2	3	3	4	4

Twin-wall sheet plan:



PART. NO. 6 mm	PART. NO. 8 mm	DESIGNATION	TOPAS 2	TOPAS 3	TOPAS 4	TOPAS 5	TOPAS 6	TOPAS 7	TOPAS 8	TOPAS 9
1254/610/6	1254/610/8	Roof panel, 1254x610 mm	3	5	6	8	9	11	12	14
1429/610/6	1429/610/8	Side wall panel, 1429x610 mm	4	6	8	10	12	14	16	18
1429/525/6	1429/525/8	Front-rear wall panel 1429x525 mm	6	6	6	6	6	6	6	6
603/610/6	603/610/8	Window panel, 603x610 mm	1	1	2	2	3	3	4	4
630/610/6	630/610/8	Panel under the window, 630x610 mm	1	1	2	2	3	3	4	4
297/525/6	297/525/8	Small rear panel, 297x525 mm	2	2	2	2	2	2	2	2
809/525/6	809/525/8	Door panel, 809x525 mm	4	4	4	4	4	4	4	4
311/525/6/LI	311/525/8/LI	Left gable sheet, 311x525 mm	4	4	4	4	4	4	4	4
311/525/6/RE	311/525/8/RE	Right gable sheet 311x525 mm	4	4	4	4	4	4	4	4

Step 1 – Assembling the front wall



Note:

Assembling the front wall while it is lying flat on the floor is the best method.

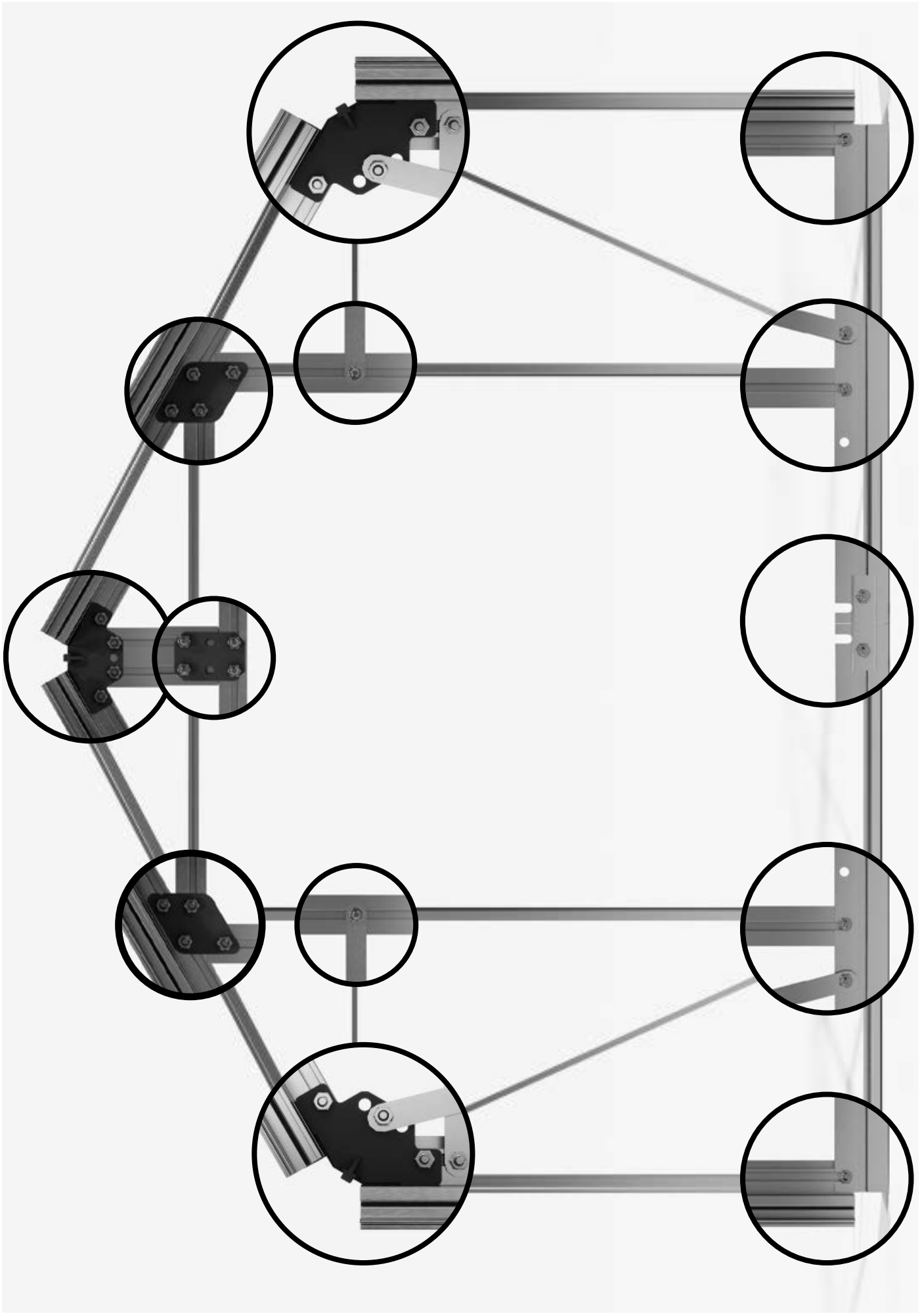
Before you start with the assembly work, place all parts for the front wall on the floor, according to the sketch.

To simplify the assembly, you will find all the connection points presented in detail on the next page.

This overview shows you exactly how the individual connection points will look when the assembly has been completed.

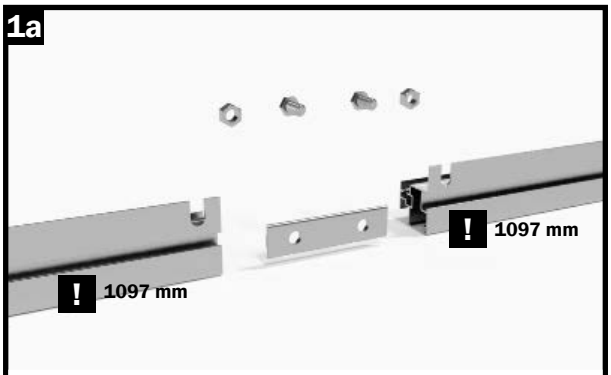
For this assembly step you will need:

SKETCH	PART. NO.	DESIGNATION	LENGTH	TOPAS 2	TOPAS 3	TOPAS 4	TOPAS 5	TOPAS 6	TOPAS 7	TOPAS 8	TOPAS 9
	01-1097.1	Floor profile, front/rear wall	1097 mm	2	2	2	2	2	2	2	2
	02-1417.1	Side edge profile	1417 mm	2	2	2	2	2	2	2	2
	08-1243.1	Roof corner profile	1243 mm	2	2	2	2	2	2	2	2
	19-1127.1	Cross strut	1127 mm	1	1	1	1	1	1	1	1
	15-1717.1	Door frame profile	1717 mm	2	2	2	2	2	2	2	2
	13-0288.1	Roof support	288 mm	1	1	1	1	1	1	1	1
	1502-1497.1	Wind bracing, front/rear wall	1497 mm	2	2	2	2	2	2	2	2
	1502-0554.1	Wind bracing, horizontal	554 mm	2	2	2	2	2	2	2	2
	23-0070.1	Longitudinal connector	70 mm	1	1	1	1	1	1	1	1
	22-0058.1	Gusset plate, gable support	58 mm	1	1	1	1	1	1	1	1
	NG501	Zinc die-cast connector		3	3	3	3	3	3	3	3
	NG205	Joint cross strut		2	2	2	2	2	2	2	2
	690509	M6x12 mm screw		32	32	32	32	32	32	32	32
	690547	M6 nut		32	32	32	32	32	32	32	32



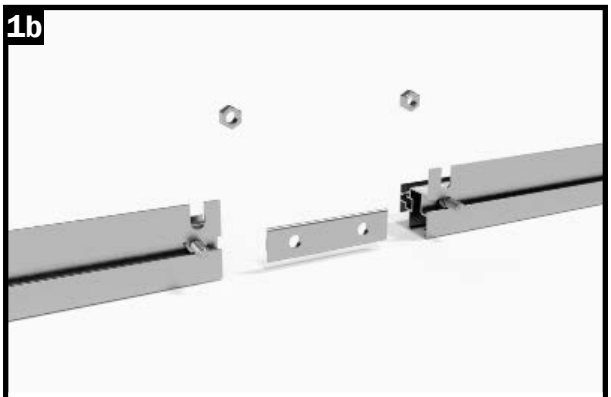
Step 1 – Assembling the front wall

1a



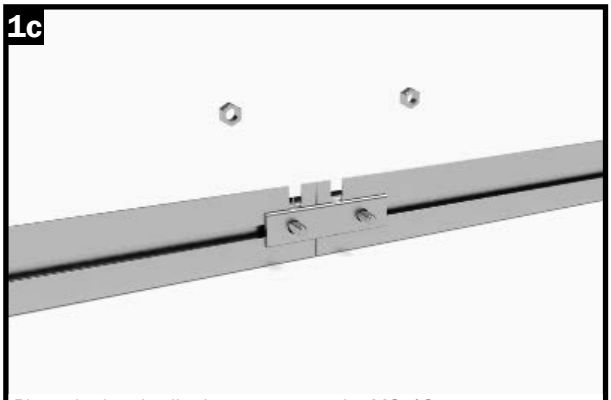
Take the two floor profiles of the front wall, a longitudinal connector as well as two M6x12 mm screws and two M6 nuts.

1b



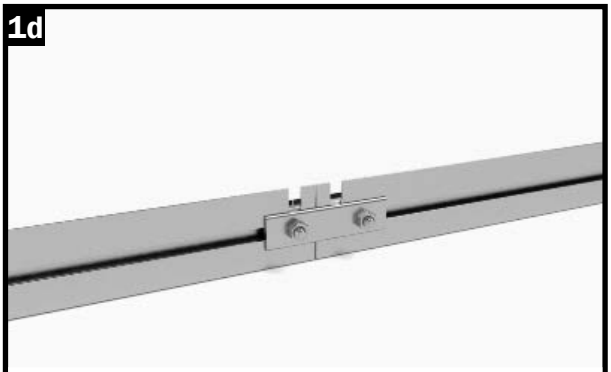
Insert one M6x12 mm screw each into the screw channel of the floor profile.

1c



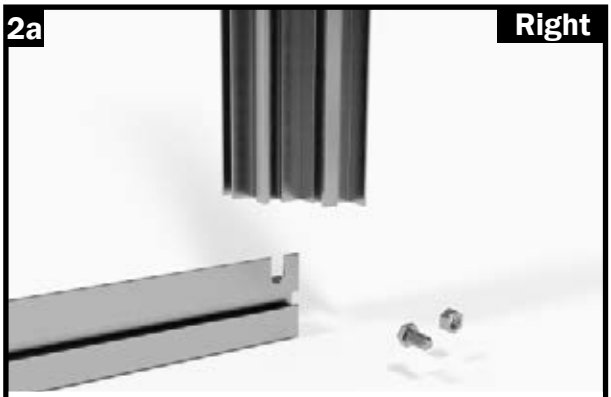
Place the longitudinal connector on the M6x12 mm screws.

1d



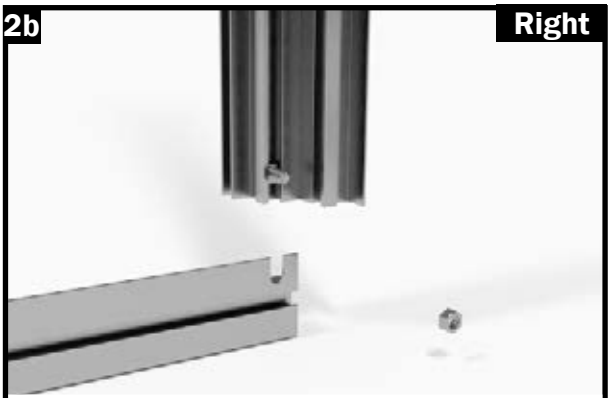
Press the floor profiles firmly together so that there is no gap. Screw the profiles together tightly using two M6 nuts.

2a Right



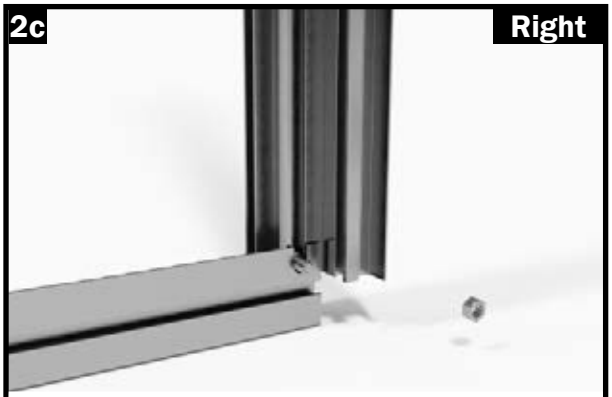
Take a side edge profile, as well as one M6x12 mm screw and one M6 nut.

2b Right



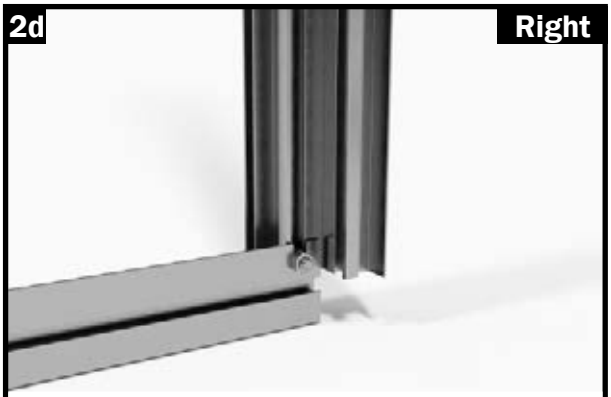
Insert the M6x12 mm screw into the screw channel of the side edge profile.

2c Right



Place the side edge on the floor profile and push the screw into the punchout in the floor profile.

2d Right



Screw the side edge profile tightly to the floor profile with the M6 nut.

2a Left

For the second side of the floor profile, take a side edge profile, as well as an M6x12 mm screw and an M6 nut.

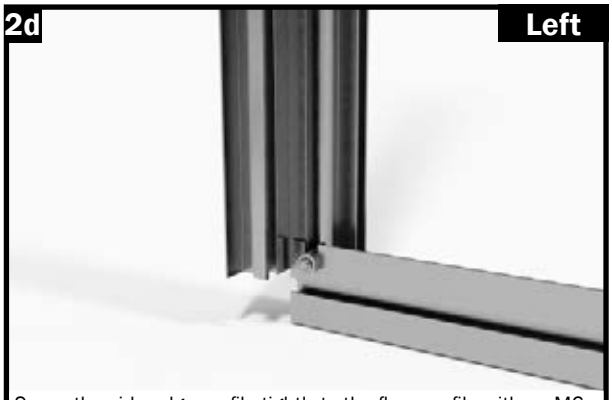
2b Left

Insert the M6x12 mm screw into the screw channel of the side edge profile.

2c Left

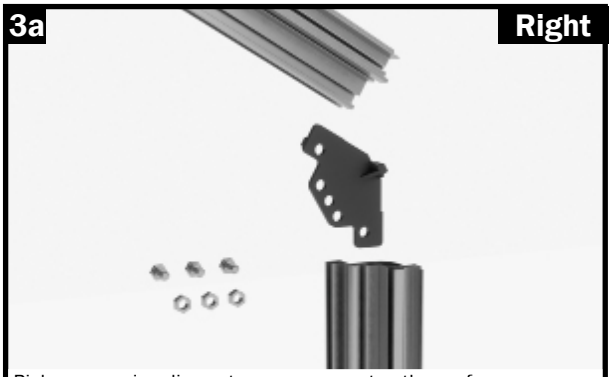
Place the side edge on the floor profile and push the screw into the punchout in the floor profile.

2d Left



Screw the side edge profile tightly to the floor profile with an M6 nut.

3a Right



Pick up one zinc die-cast corner connector, the roof corner profile, three M6x12 mm screws and three M6 nuts.

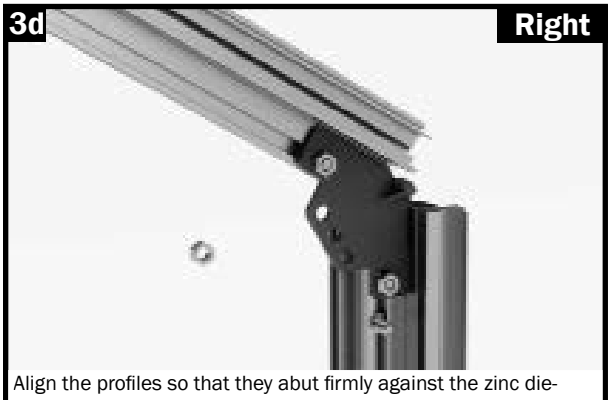
3b Right

Insert two M6x12 mm screws into the screw channel of the side edge profile and one screw into the screw channel of the roof corner profile.

3c Right

Place the zinc die-cast corner connector so that the two M6x12 screws are protruding through the holes provided.

3d Right



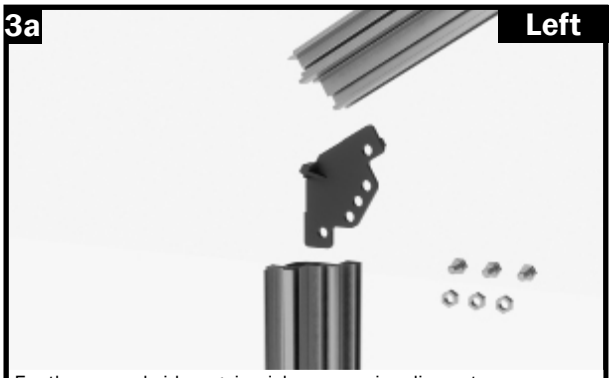
Align the profiles so that they abut firmly against the zinc die-cast corner connector. Screw the corner connector tightly to the profiles with two M6 nuts.

Step 1 – Assembling the front wall

3e Right

Secure the third M6x12 mm screw with an M6 nut to prevent it from slipping.

3a Left



For the second side, again pick up one zinc die-cast corner connector, the roof corner profile, three M6x12 mm screws and three M6 nuts.

3b Left

Insert two M6x12 mm screws into the screw channel of the side edge profile and one screw into the screw channel of the roof corner profile.

3c Left

Place the zinc die-cast corner connector so that the two M6x12 screws are protruding through the holes provided.

3d Left

Align the profiles so that they abut firmly against the zinc die-cast corner connector. Screw the corner connector tightly to the profiles with two M6 nuts.

3e Left

Secure the third M6x12 mm screw with an M6 nut to prevent it from slipping.

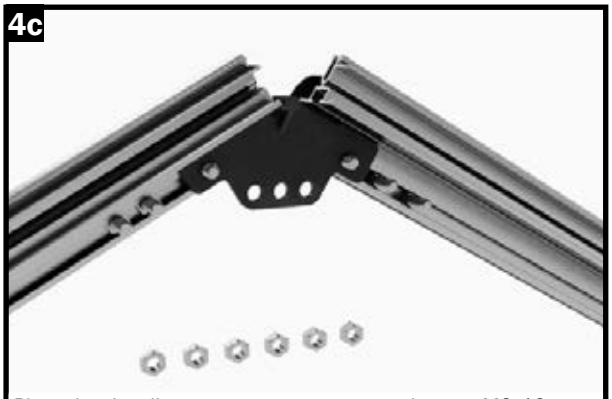
4a

Pick up one zinc die-cast corner connector, as well as six M6x12 mm screws and six M6 nuts.

4b

Insert three M6x12 mm screws each into the screw channel of the left and right roof corner profile.

4c

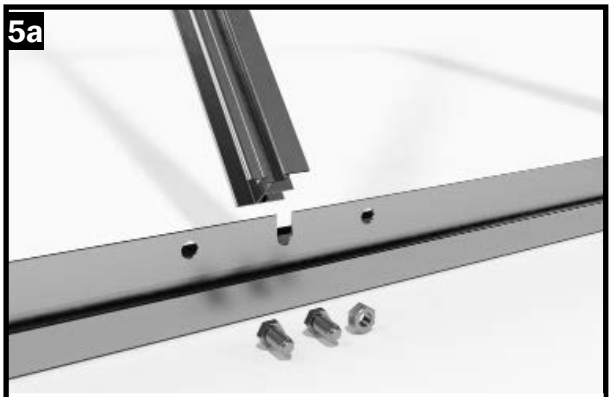


Place the zinc die-cast corner connector so that two M6x12 screws are protruding through the holes provided.

4d

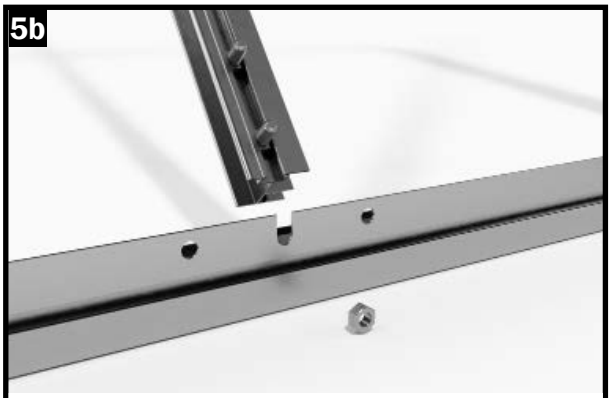
Align the profiles so that they abut firmly against the zinc die-cast corner connector. Screw the corner connector tightly to the profiles with two M6 nuts. Secure the four M6x12 mm screws with M6 nuts to prevent them from slipping.

5a



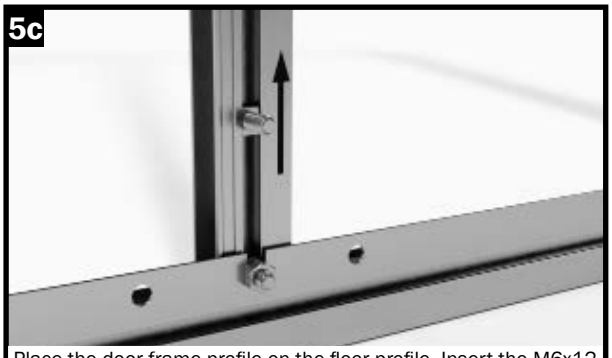
Pick up one door frame profile and two M6x12 mm screws and one M6 nut.

5b



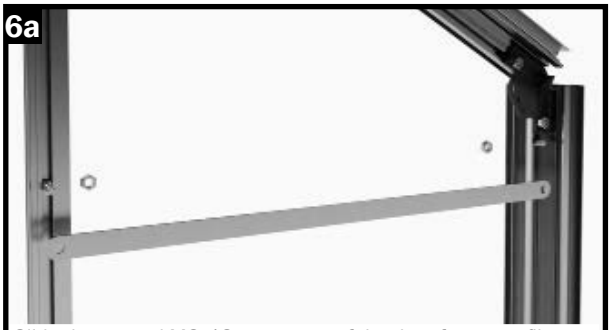
Insert the two M6x12 mm screws into the screw channel of the door frame profile.

5c



Place the door frame profile on the floor profile. Insert the M6x12 screw into the punchout in the floor profile. Screw the door frame profile tightly to the floor profile using an M6 nut

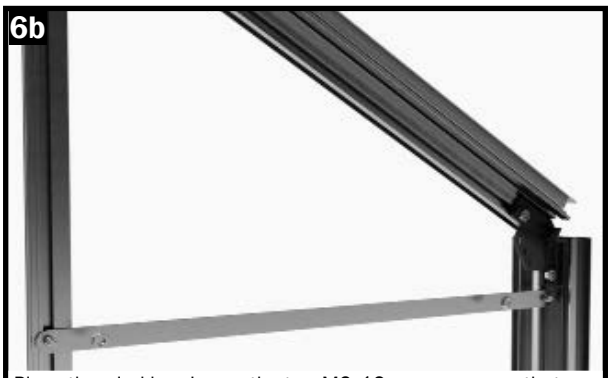
6a



Slide the second M6x12 mm screw of the door frame profile upwards in the screw channel. Align the screw of the side edge profile and that of the door frame profile exactly horizontally. Pick up a wind bracing and two M6 nuts.

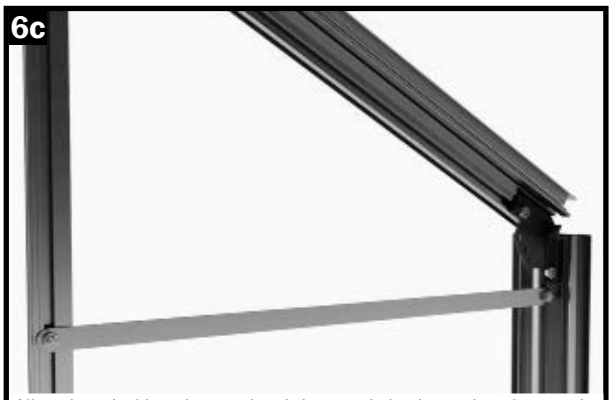
Step 1 – Assembling the front wall

6b



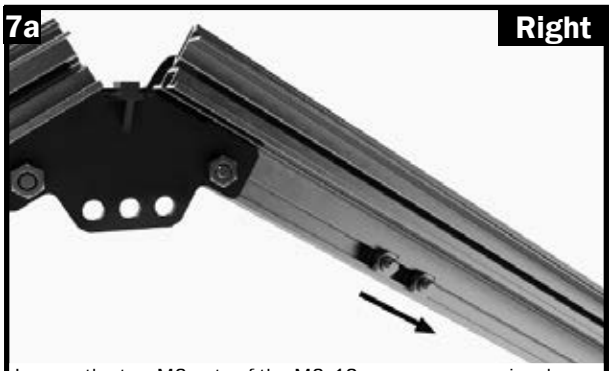
Place the wind bracing on the two M6x12 mm screws so that they protrude through the holes in the wind bracing.

6c



Align the wind bracing so that it is exactly horizontal and screw it in place using two M6 nuts.

7a **Right**



Loosen the two M6 nuts of the M6x12 mm screws previously inserted into the ridge area and guide the screws in the direction of the upper end of the door frame profile.

7b **Right**

Unscrew the M6 nuts from the two screws.
Pick up one gusset plate (cross strut) as well as one M6x12 mm screw and one M6 nut.

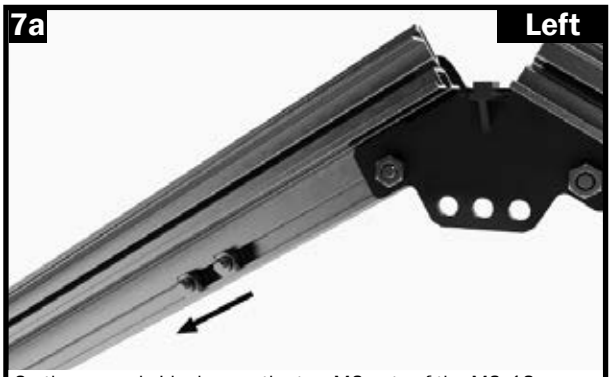
7c **Right**

Place the gusset plate (cross strut) so that the three screws protrude through the holes in the gusset plate.

7d **Right**

Screw the gusset plate tightly, using M6 nuts, to the roof corner and door frame profile.

7a **Left**



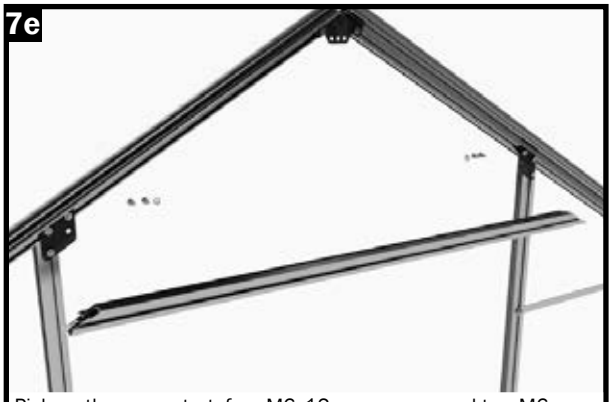
On the second side, loosen the two M6 nuts of the M6x12 mm screws previously inserted in the ridge area and guide the screws towards the door frame profile.

7b **Left**

Remove the M6 nuts from the two screws.
Pick up one gusset plate (cross strut) as well as one M6x12 mm screw and one M6 nut.

Place the gusset plate (cross strut) so that the three screws protrude through the holes in the gusset plate.

Screw the gusset plate tightly, using M6 nuts, to the roof corner and door frame profile.

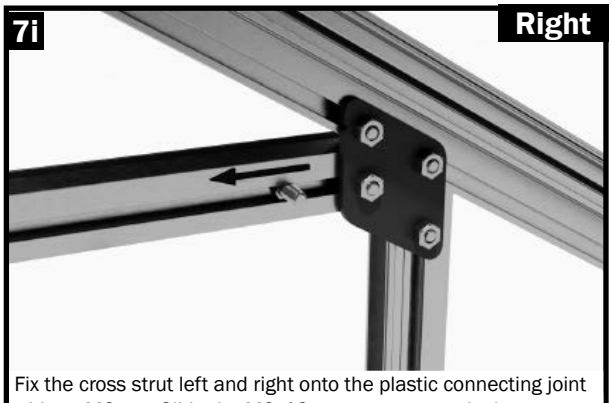


Pick up the cross strut, four M6x12 mm screws and two M6 nuts.

Position the cross strut behind the plastic connecting joint of the cross strut.

Insert two M6x12 mm screws left and right into the screw channel of the cross strut.

Position the cross strut so that a M6x12 mm screw protrudes through the hole in the plastic connecting joint.



Fix the cross strut left and right onto the plastic connecting joint with an M6 nut. Slide the M6x12 mm screw towards the centre of the cross strut.

Screw the left side of the cross strut in the same way as shown in Figures 7f to 7i.

Step 1 – Assembling the front wall (attaching the two wind bracings)

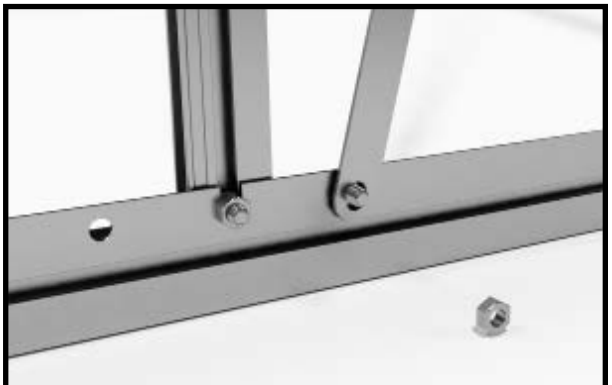
Pick up one wind bracing and one M6x12 mm screw and one M6 nut.

Insert the M6x12 mm screw from the outside through the middle hole of the zinc die-cast corner connector.

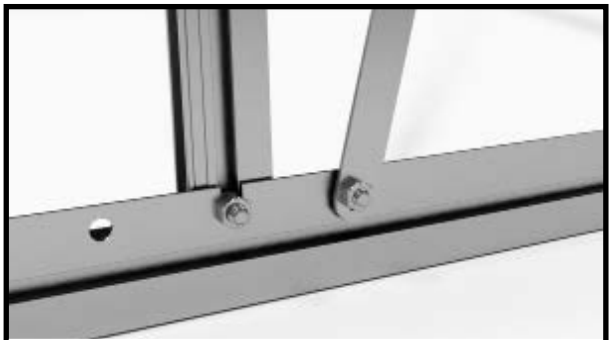
Place the wind bracing on the M6x12 mm screw, so that the screw is protruding through the hole in the wind bracing.

Screw the wind bracing to the zinc die-cast corner connector using an M6 nut.

Position the underside of the wind bracing on the hole provided in the floor profile.



Insert an M6x12 mm screw from the outside through the hole of the floor profile and the wind bracing.

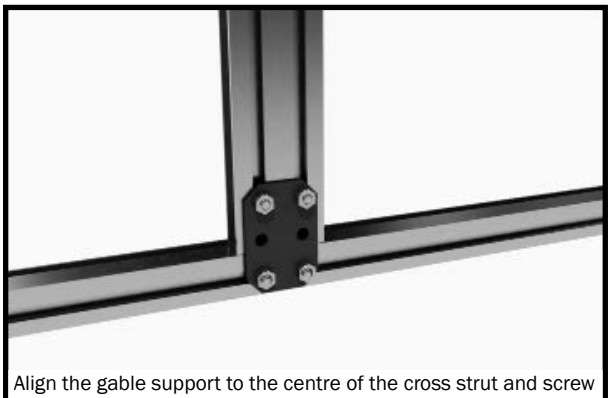


Screw the wind bracing tightly onto the floor profile using an M6 nut.
Repeat the steps for screwing the wind bracing on the second side of the front wall.

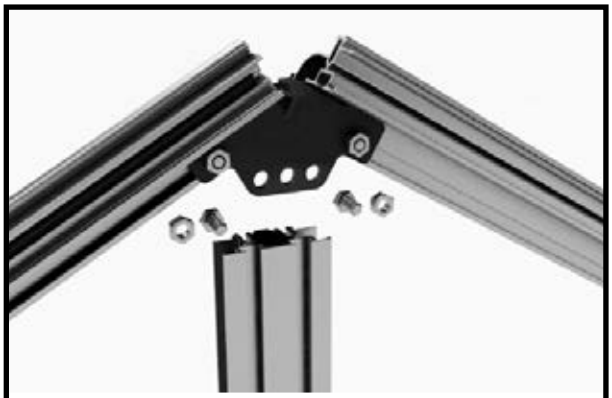
Pick up one gable support connecting joint, two M6x12 mm screws and four nuts.

Insert two M6x12 mm screws into the two screw channels of the gable support.

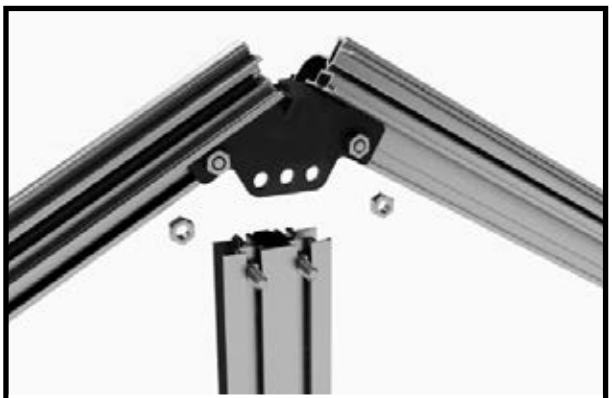
Place the connecting joint so that the four screws protrude through the four holes in the connecting joint



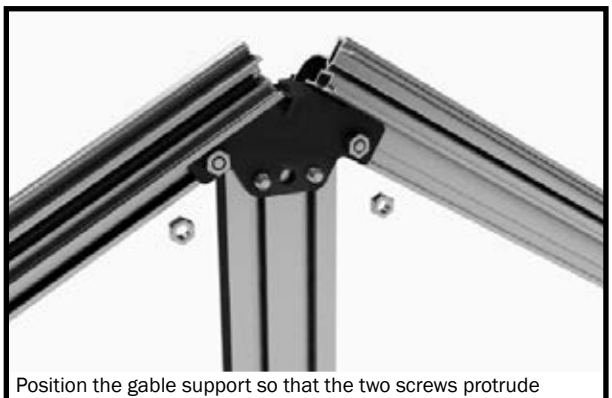
Align the gable support to the centre of the cross strut and screw the connecting joint tightly to the gable support and the cross strut.



Pick up two M6x12 mm screws and two M6 nuts.



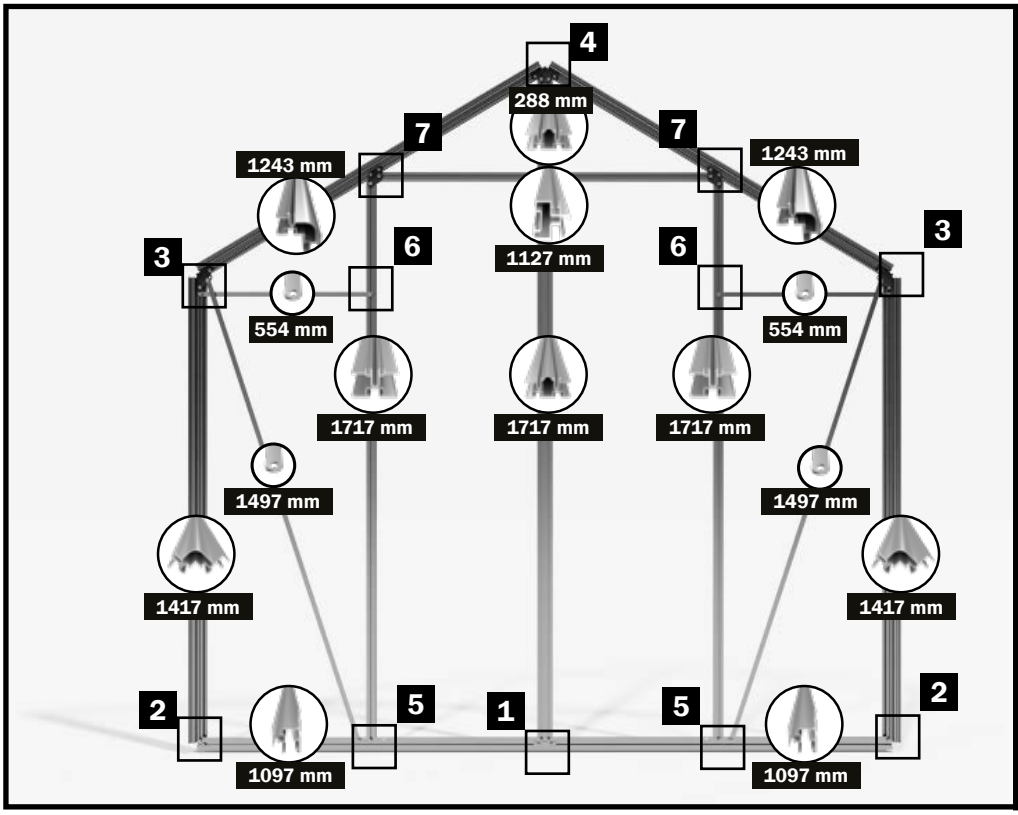
Insert two M6x12 mm screws into the two screw channels of the gable support.



Position the gable support so that the two screws protrude through the two outer holes of the zinc die-cast corner connector.

Screw the gable support with M6 nuts tightly to the zinc die-cast corner connector.

Step 2 – Assembling the rear wall



Note:

Assembling the rear wall while it is lying flat on the floor is the best method.

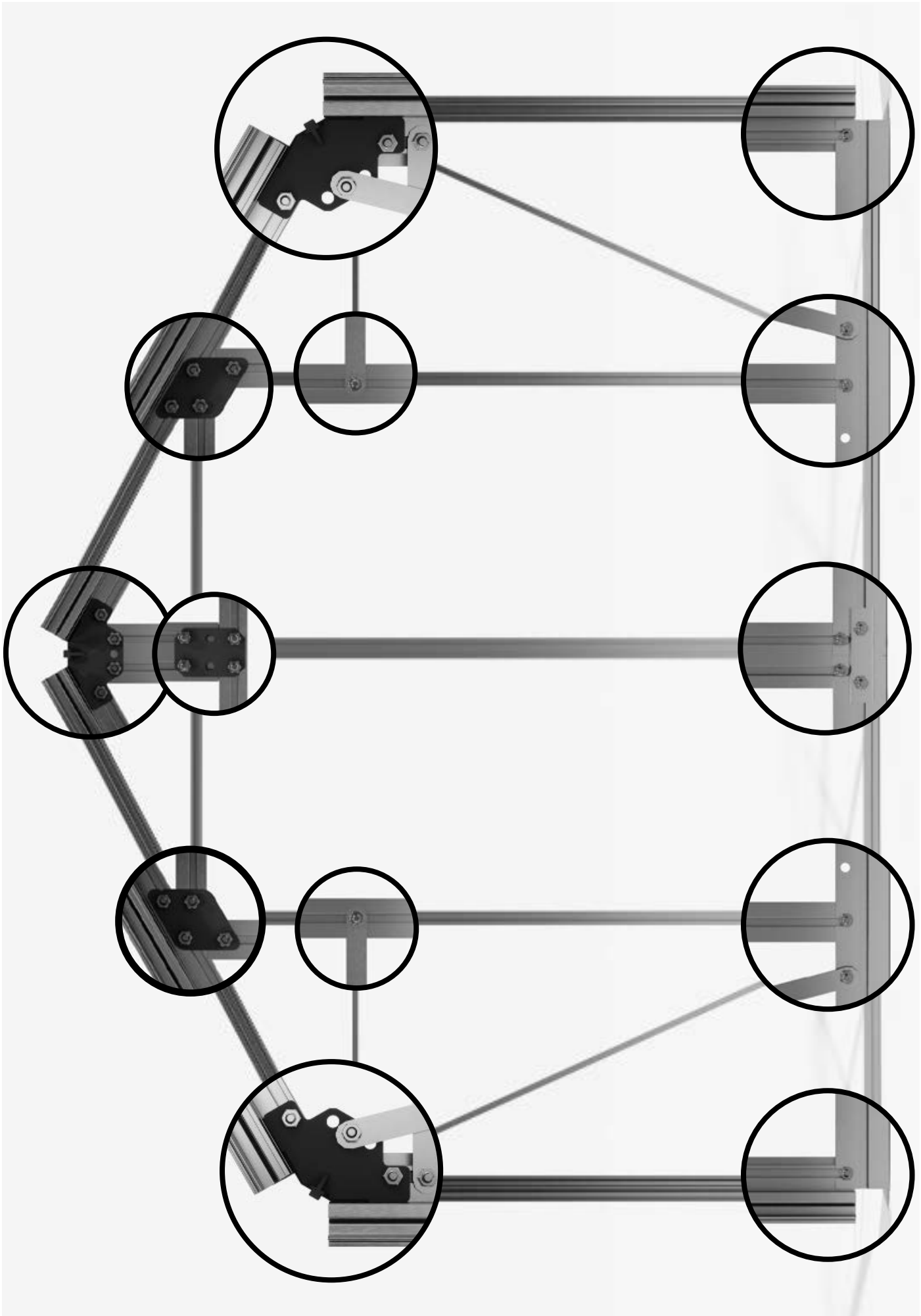
Before you start with the assembly work, place all parts for the rear wall on the floor, according to the sketch.

To simplify the assembly, you will find all the connection points presented in detail on the next page.

This overview shows you exactly how the individual connection points will look when the assembly has been completed.

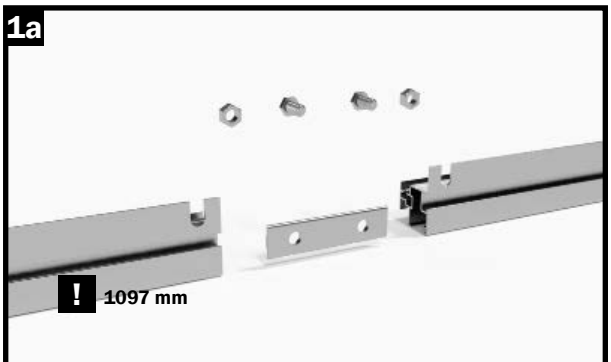
For this assembly step you will need:

SKETCH	PART. NO.	DESIGNATION	LENGTH	TOPAS 2	TOPAS 3	TOPAS 4	TOPAS 5	TOPAS 6	TOPAS 7	TOPAS 8	TOPAS 9
	01-1097.1	Floor profile, front/rear wall	1097 mm	2	2	2	2	2	2	2	2
	02-1417.1	Side edge profile	1417 mm	2	2	2	2	2	2	2	2
	08-1243.1	Roof corner profile	1243 mm	2	2	2	2	2	2	2	2
	19-1127.1	Cross strut	1127 mm	1	1	1	1	1	1	1	1
	12-1717.1	Strut, rear wall	1717 mm	2	2	2	2	2	2	2	2
	13-1717.1	Coupling strut, rear wall	1717 mm	1	1	1	1	1	1	1	1
	13-0288.1	Roof support	288 mm	1	1	1	1	1	1	1	1
	1502-1497.1	Wind bracing, front/rear wall	1497 mm	2	2	2	2	2	2	2	2
	1502-0554.1	Wind bracing, horizontal	554 mm	2	2	2	2	2	2	2	2
	23-0070.1	Longitudinal connector	70 mm	1	1	1	1	1	1	1	1
	22-0058.1	Gusset plate, gable support	58 mm	1	1	1	1	1	1	1	1
	NG501	Zinc die-cast connector		3	3	3	3	3	3	3	3
	NG205	Joint cross strut		2	2	2	2	2	2	2	2
	690509	M6x12 mm screw		36	36	36	36	36	36	36	36
	690547	M6 nut		36	36	36	36	36	36	36	36



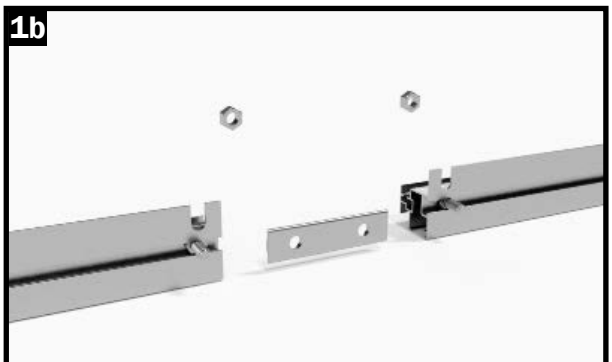
Step 2 – Assembling the rear wall

1a



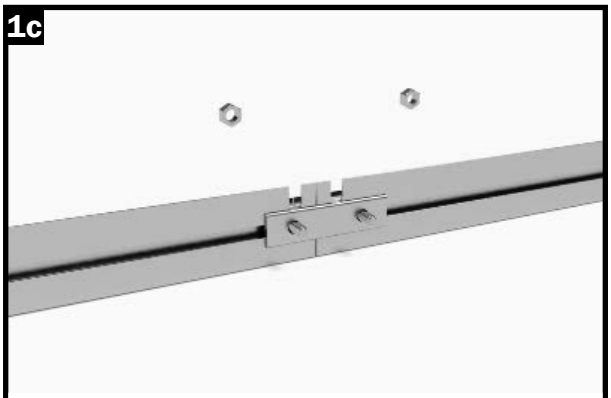
Take the two floor profiles of the front wall, a longitudinal connector as well as two M6x12 mm screws and two M6 nuts.

1b



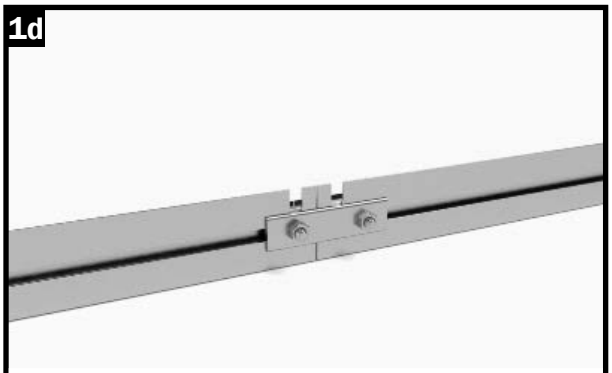
Insert one M6x12 mm screw each into the screw channel of the floor profile.

1c



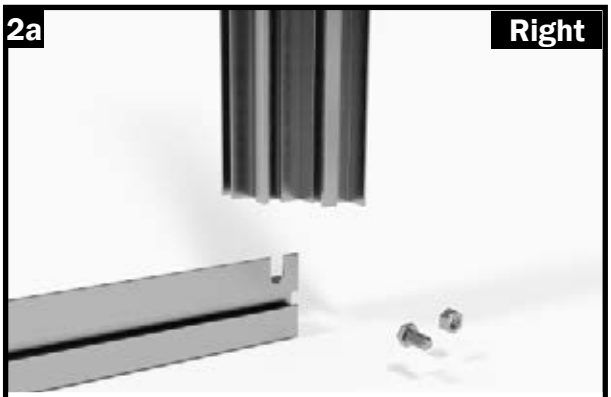
Place the longitudinal connector on the M6x12 mm screws.

1d



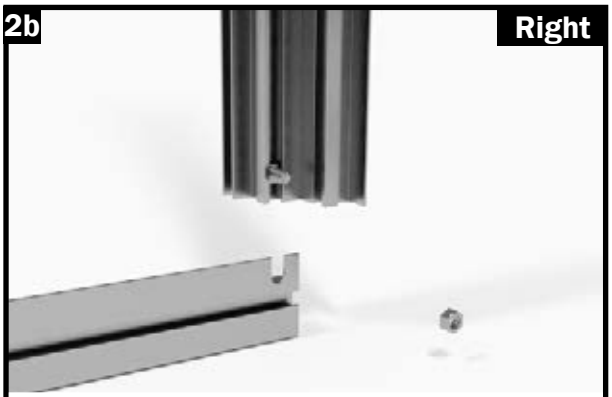
Press the floor profiles firmly together so that there is no gap. Screw the profiles together tightly using the two M6 nuts.

2a Right



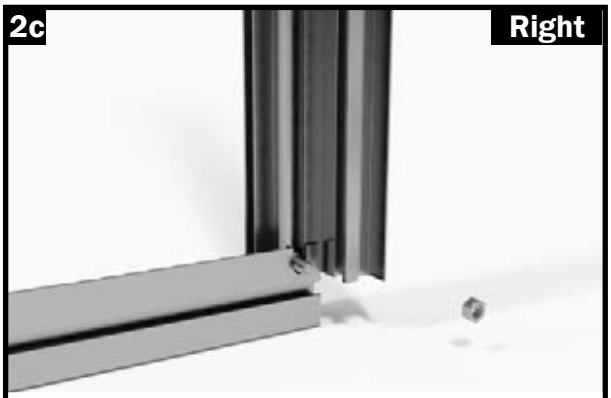
Pick up one side edge profile, one M6x12 mm screw and one M6 nut.

2b Right



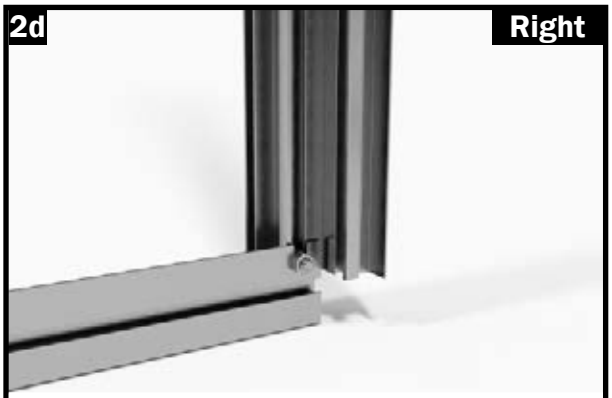
Insert the M6x12 mm screw into the screw channel of the side edge profile.

2c Right



Place the side edge on the floor profile and push the screw into the punchout in the floor profile.

2d Right

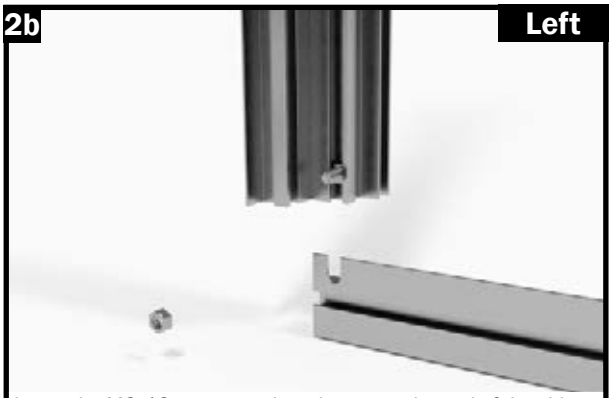


Screw the side edge profile tightly to the floor profile with the M6 nut.

2a Left

For the second side of the floor profile, take a side edge profile, as well as an M6x12 mm screw and an M6 nut.

2b Left

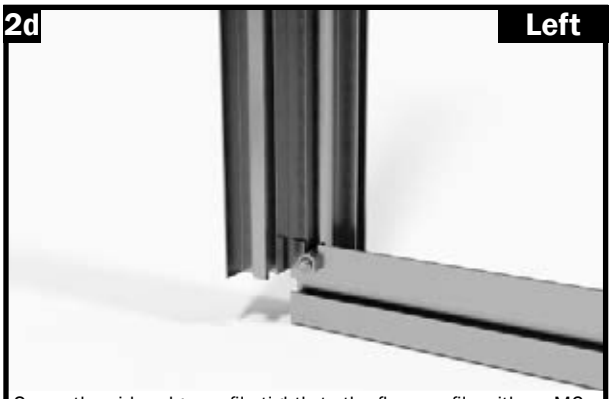


Insert the M6x12 mm screw into the screw channel of the side edge profile.

2c Left

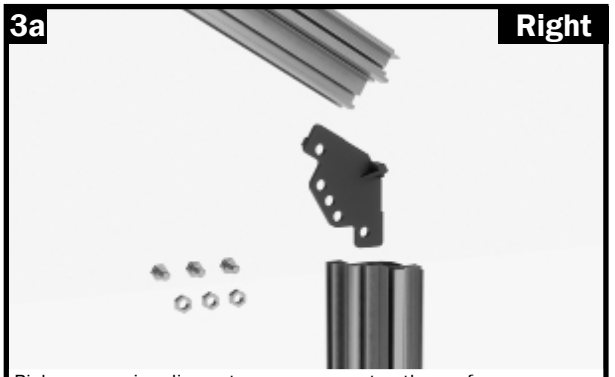
Place the side edge on the floor profile and push the screw into the punchout in the floor profile.

2d Left



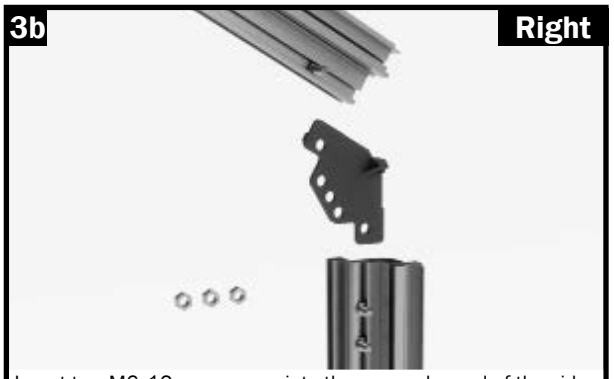
Screw the side edge profile tightly to the floor profile with an M6 nut.

3a Right



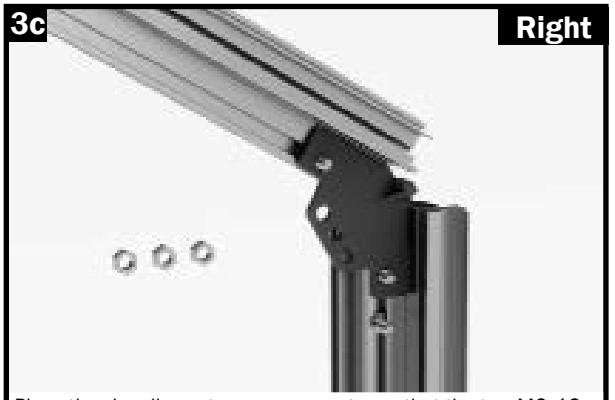
Pick up one zinc die-cast corner connector, the roof corner profile, three M6x12 mm screws and three M6 nuts.

3b Right



Insert two M6x12 mm screws into the screw channel of the side edge profile and one screw into the screw channel of the roof corner profile.

3c Right



Place the zinc die-cast corner connector so that the two M6x12 screws are protruding through the holes provided.

3d Right

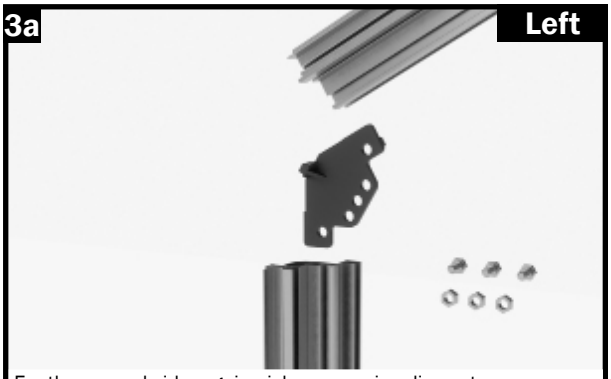
Align the profiles so that they abut firmly against the zinc die-cast corner connector. Screw the corner connector tightly to the profiles with two M6 nuts.

Step 2 – Assembling the rear wall

3e Right

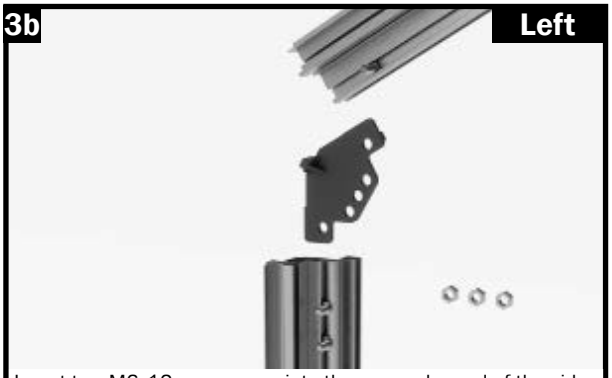
Secure the third M6x12 mm screw with an M6 nut to prevent it from slipping.

3a Left



For the second side, again pick up one zinc die-cast corner connector, the roof corner profile, three M6x12 mm screws and three M6 nuts.

3b Left



Insert two M6x12 mm screws into the screw channel of the side edge profile and one screw into the screw channel of the roof corner profile.

3c Left

Place the zinc die-cast corner connector so that the two M6x12 screws are protruding through the holes provided.

3d Left

Align the profiles so that they abut firmly against the zinc die-cast corner connector. Screw the corner connector tightly to the profiles with two M6 nuts.

3e Left

Secure the third M6x12 mm screw with an M6 nut to prevent it from slipping.

4a

Pick up one zinc die-cast corner connector, as well as six M6x12 mm screws and six M6 nuts.

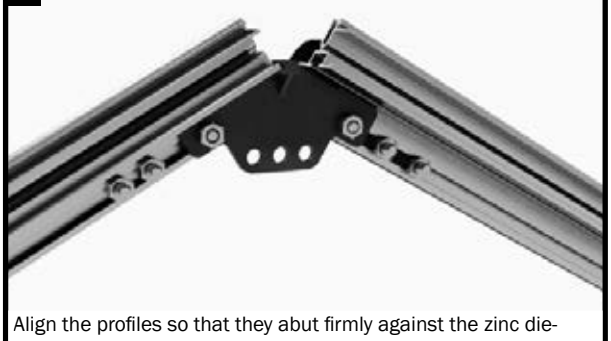
4b

Insert three M6x12 mm screws each into the screw channel of the left and right roof corner profile.

4c

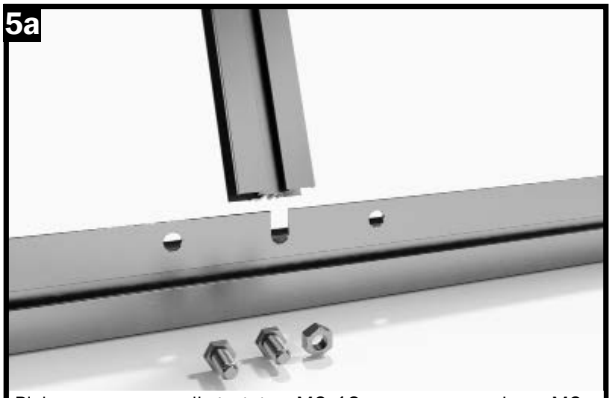
Place the zinc die-cast corner connector so that two M6x12 mm screws are protruding through the holes provided.

4d



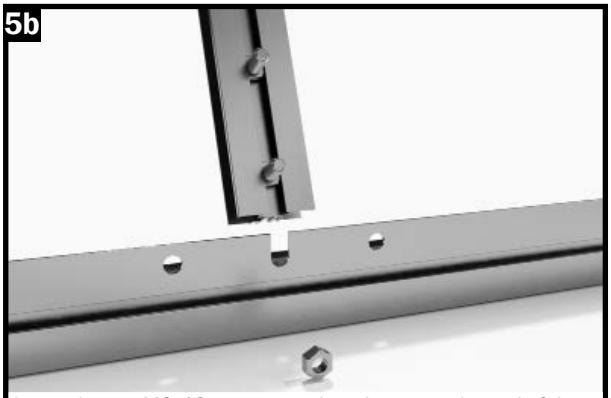
Align the profiles so that they abut firmly against the zinc die-cast corner connector. Screw the corner connector tightly to the profiles with two M6 nuts. Secure the four M6x12 mm screws with M6 nuts to prevent them from slipping.

5a



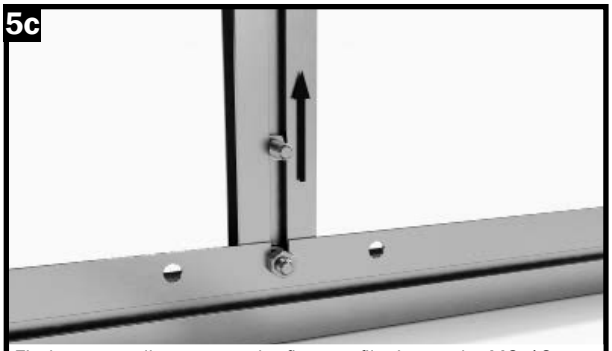
Pick up one rear wall strut, two M6x12 mm screws and one M6 nut.

5b



Insert the two M6x12 mm screws into the screw channel of the rear wall strut.

5c

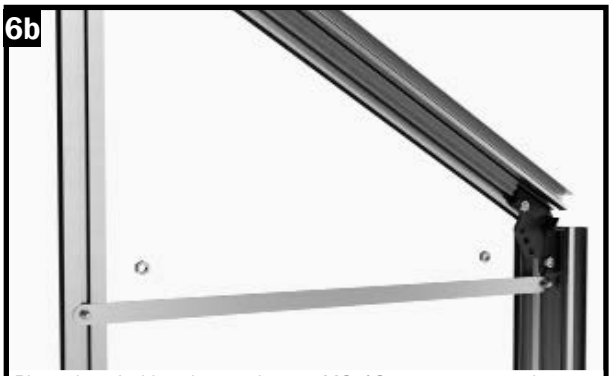


Fit the rear wall strut onto the floor profile. Insert the M6x12 screw mm into the punchout in the floor profile. Screw the rear wall strut onto the floor profile using an M6 nut.

6a

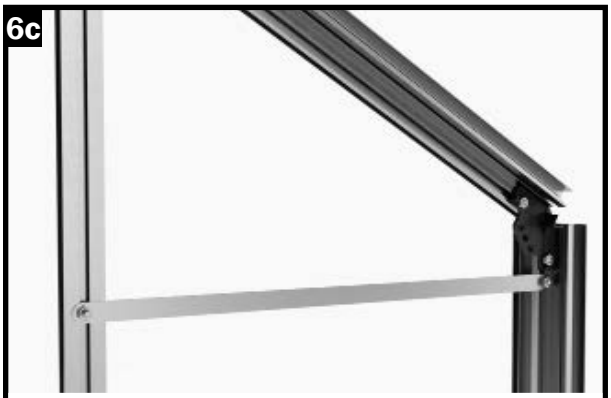
Slide the second M6x12 mm screw of the rear wall strut upwards in the screw channel. Align the screw of the side edge profile and that of the rear wall strut exactly horizontally. Pick up a wind bracing and two M6 nuts.

6b



Place the wind bracing on the two M6x12 mm screws so that they protrude through the holes in the wind bracing.

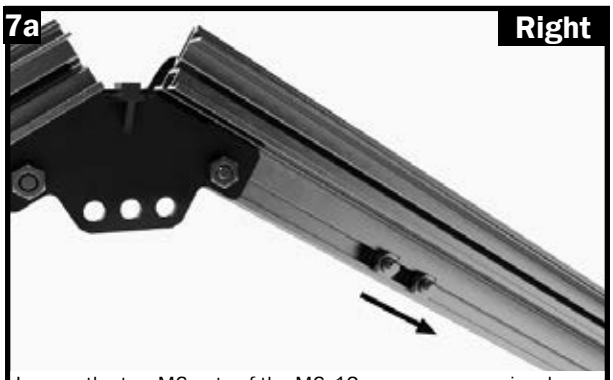
6c



Align the wind bracing so that it is exactly horizontal and screw it in place using two M6 nuts.

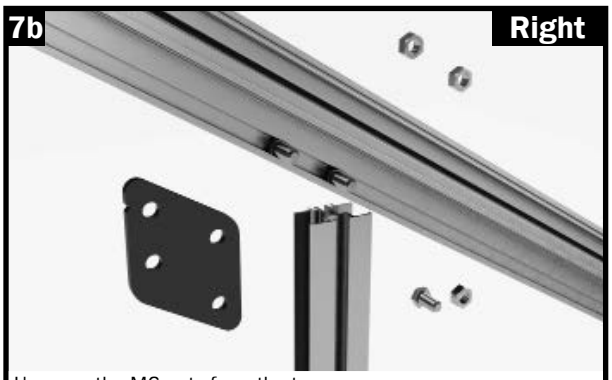
Step 2 – Assembling the rear wall

7a Right



Loosen the two M6 nuts of the M6x12 mm screws previously inserted into the ridge area and guide the screws in the direction of the upper end of the rear wall strut.

7b Right



Unscrew the M6 nuts from the two screws.
Pick up one gusset plate (cross strut) as well as one M6x12 mm screw and one M6 nut.

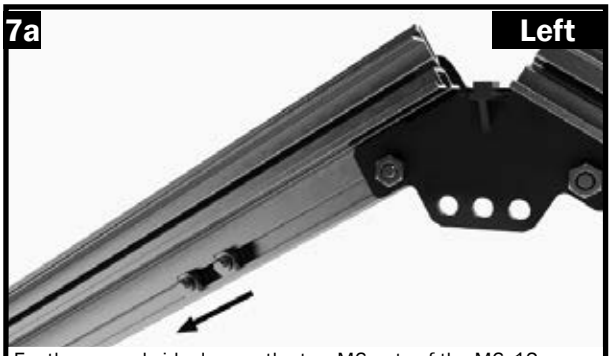
7c Right

Place the gusset plate (cross strut) so that the three screws protrude through the holes in the gusset plate.

7d Right

Screw the gusset plate tightly, using M6 nuts, to the roof corner profile and the rear wall strut.

7a Left

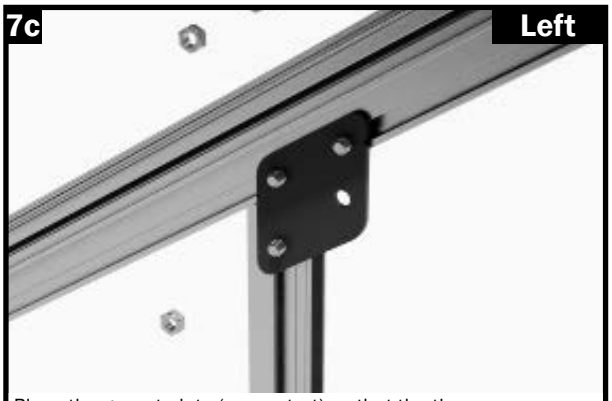


For the second side, loosen the two M6 nuts of the M6x12 mm screws previously inserted into the ridge area and guide the screws in the direction of the upper end of the rear wall strut.

7b Left

Remove the M6 nuts from the two screws.
Pick up one gusset plate (cross strut) as well as one M6x12 mm screw and one M6 nut.

7c Left

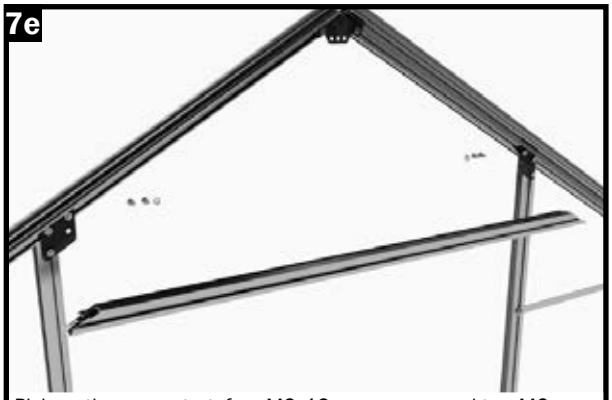


Place the gusset plate (cross strut) so that the three screws protrude through the holes in the gusset plate.

7d Left

Screw the gusset plate tightly, using M6 nuts, to the roof corner profile and the rear wall strut.

7e



Pick up the cross strut, four M6x12 mm screws and two M6 nuts.

7f Right

Position the cross strut behind the plastic connecting joint of the cross strut.

7g Right

Insert two M6x12 mm screws left and right into the screw channel of the cross strut.

Position the cross strut so that an M6x12 mm screw protrudes through the hole in the plastic connecting joint.

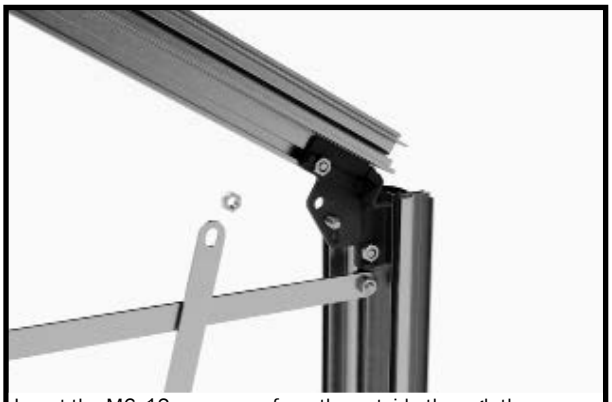
7i Right

Fix the cross strut onto the plastic connecting joint with an M6 nut. Slide the M6x12 mm screw towards the centre of the cross strut.

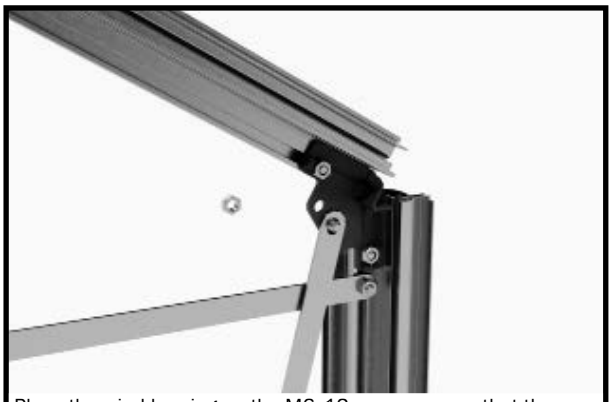
Screw the left side of the cross strut in the same way as shown in Figures 7f to 7i.

Step 2 – Assembling the rear wall (attaching the two wind bracings)

Pick up one wind bracing and one M6x12 mm screw and one M6 nut.



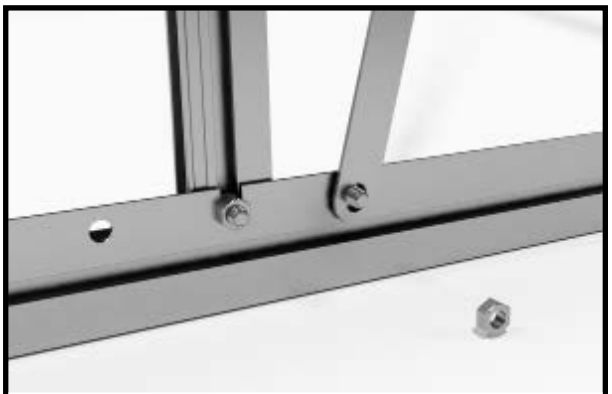
Insert the M6x12 mm screw from the outside through the middle hole of the zinc die-cast corner connector.



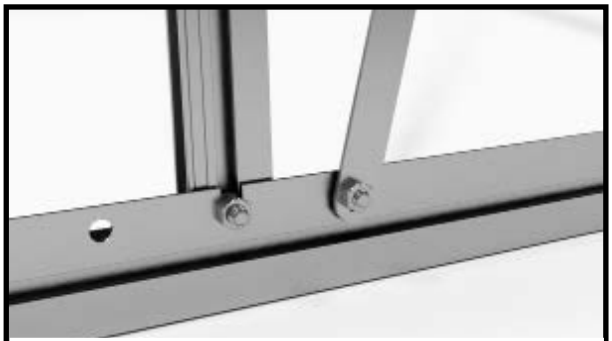
Place the wind bracing on the M6x12 mm screw, so that the screw is protruding through the hole in the wind bracing.

Screw the wind bracing to the zinc die-cast corner connector using an M6 nut.

Position the underside of the wind bracing on the hole provided in the floor profile.



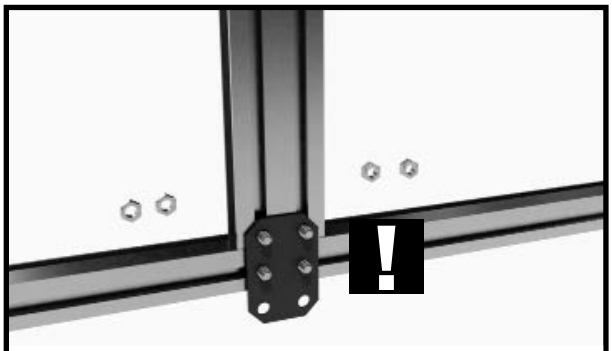
Insert an M6x12 mm screw from the outside through the hole of the floor profile and the wind bracing.



Screw the wind bracing tightly onto the floor profile using an M6 nut.
Repeat the same steps for screwing the wind bracing on the second side of the rear wall.

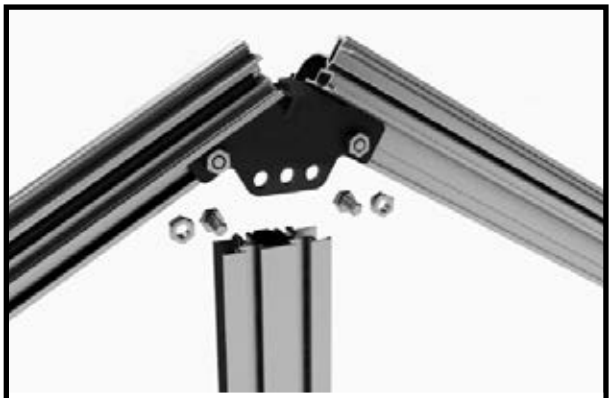
Pick up one gable support connecting joint, two M6x12 mm screws and four nuts.

Insert two M6x12 mm screws into the two screw channels of the gable support.

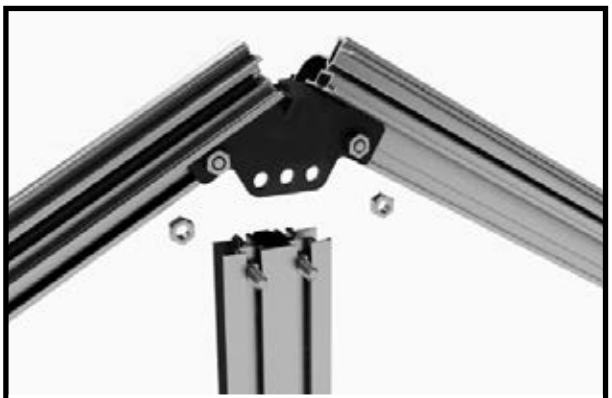


Place the connecting joint so that the four screws protrude through the four holes in the connecting joint
Make sure that the connecting joint on the rear wall is placed at the centre of the cross strut!

Align the gable support to the centre of the cross strut and screw the connecting joint firmly to the gable support and the cross strut with the M6 nuts.



Pick up two M6x12 mm screws and two M6 nuts.



Insert two M6x12 mm screws into the two screw channels of the gable support.

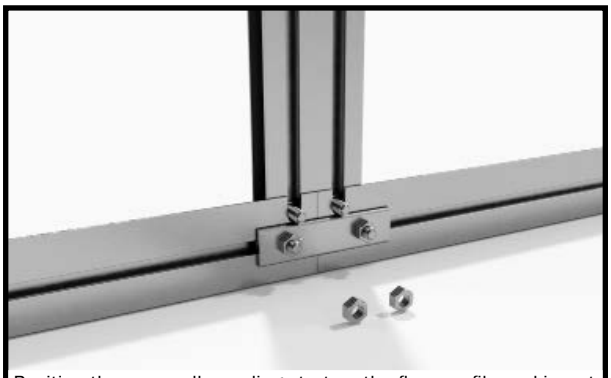
Position the gable support so that the two screws protrude through the two outer holes of the zinc die-cast corner connector.

Screw the gable support with M6 nuts tightly to the zinc die-cast corner connector.

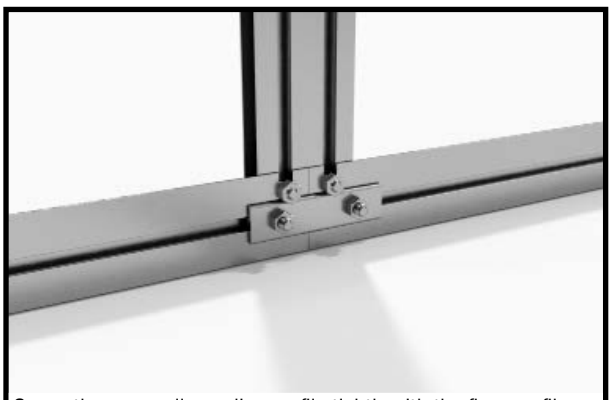
Step 2 – Assembling the rear wall (attaching the coupling strut in the middle of the rear wall)

Pick up the rear wall coupling strut, two M6x12 mm screws and two M6 nuts.

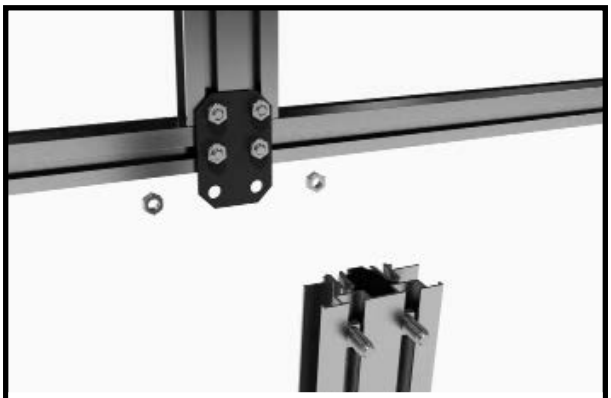
Insert the two M6x12 mm screws into the two screw channels of the coupling strut.



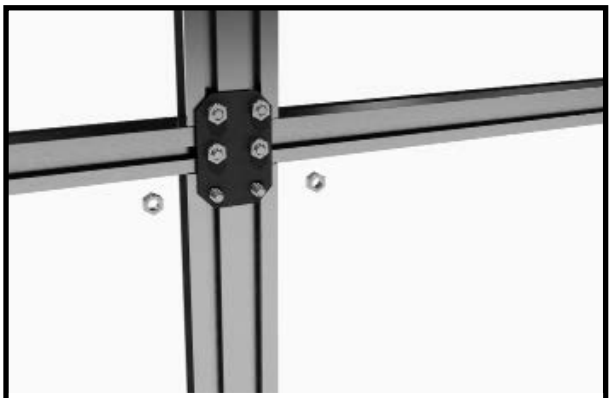
Position the rear wall coupling strut on the floor profile and insert the two sM6x12 mm screws into the punched-out areas of the floor profile.



Screw the rear wall coupling profile tightly with the floor profile using the two M6 nuts.



Insert two M6x12 mm screws into the two screw channels on the top side of the coupling profile.



Position the coupling profile so that the two screws protrude through the outer two holes of the connecting joint.

Screw the coupling profile tightly to the connecting joint with M6 nuts.

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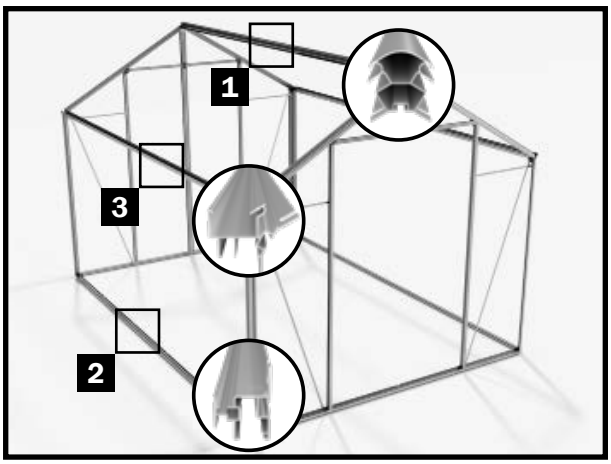
Step 3 – Connecting the longitudinal parts (bottom profile, rain gutter, ridge)



STEP 3 – Connecting the longitudinal parts

In the first step, the floor profiles, rain gutters and ridge are connected using the supplied connectors. The floor, rain gutter and ridge must all be the same length!

Note:

For the TOPAS 2 and TOPAS 3 models, the side floor profiles, the rain gutters and the ridge are continuous; therefore, the step “Connecting the longitudinal parts“ can be omitted.

If you have purchased the TOPAS 2 or TOPAS 3 model, scroll forward and continue with the assembly of the longitudinal parts. To do this, turn to page 47.

NOTE on TOPAS 5, TOPAS 7, TOPAS 9

Make sure that the position of the profiles for the floor profiles, rain gutters and ridge are alll matching. We recommend using the longer profiles for each of the 3 sections first.

The easiest way is to place the floor profiles and rain gutters next to each other and check that the profiles for the 3 sections are in the same position before assembly.

Please also note that the floor profiles and rain gutters must be mounted back-to-front!

Therefore, it is best to place the longitudinal profiles correctly at the very beginning, and only then begin to assemble them and screw them together.

1. It is best to start with the ridge profiles.
Fig. 1a to 1d.

2. Continue with the floor profiles.
Fig. 2a to 2d

Caution:
If you have decided to use an aluminium foundation, please follow the relevant assembly instructions on page 14.

3. Finally, connect the parts of the rain gutter.
Fig. 3a to 3e
Please make sure that a plastic connector is inserted into the rain gutters where the profiles meet.

For this assembly step you will need:

SKETCH	PART. NO.	DESIGNATION	LENGTH	TOPAS 2	TOPAS 3	TOPAS 4	TOPAS 5	TOPAS 6	TOPAS 7	TOPAS 8	TOPAS 9
	01-1267-1 01-1892-1	Floor profile, 2-section Floor profile, 3-section	1267 mm 1892 mm	--	- -	4 -	2 2	6 -	4 2	8 -	6 2
	14-1267-1 14-1892-1	Rain gutter, 2-sector Rain gutter 3-sector	1267 mm 1892 mm	- -	- -	4 -	2 2	6 -	4 2	8 -	6 2
	05-1267-1 05-1892-1	Ridge, 2-sector Ridge 3-sector	1267 mm 1892 mm	--	- -	2 -	1 1	3 -	2 1	4 -	3 1
	23-0070.1	Longitudinal connector	70 mm	-	-	5	5	10	10	15	15
	NG207	Plastic connector Rain gutter		-	-	2	2	4	4	6	6
	690509	M6x12 mm screw		-	-	10	10	20	20	30	30
	690547	M6 nut		-	-	10	10	20	20	30	30

Note:
If you have decided to purchase a foundation, the steps in Figures 2a to 2d – Connecting the floor profiles – are different. Please see the figures on page 14.

Step 3 – Connecting the longitudinal parts (bottom profile, rain gutter, ridge)

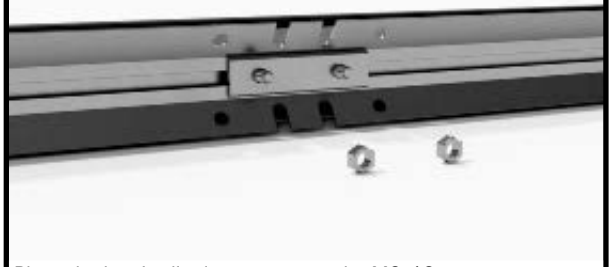
1a

Pick up the ridge profiles, a longitudinal connector as well as two M6x12 mm screws and M6 nuts.

1b

Insert one M6x12 screw each into the screw channel of the ridge profile.

1c



Place the longitudinal connector on the M6x12 mm screws.

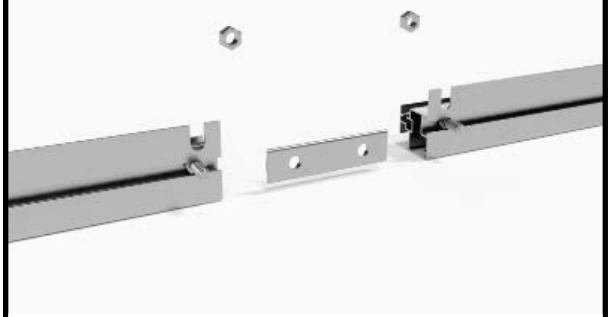
1d

Press the ridge profiles firmly together so that there is no gap. Screw the profiles together tightly using two M6 nuts.

2a

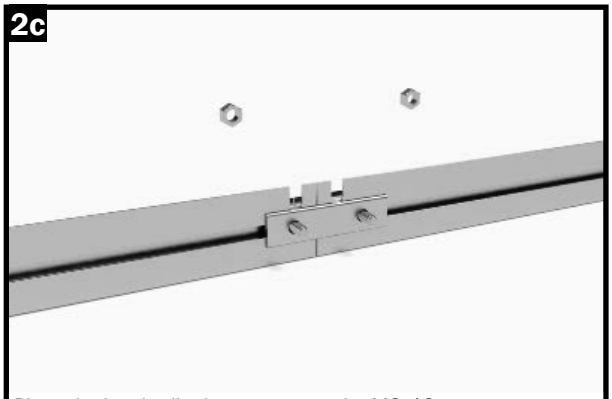
Pick up the bottom profiles of the side wall, the longitudinal connectors as well as M6x12 mm screws and M6 nuts.

2b



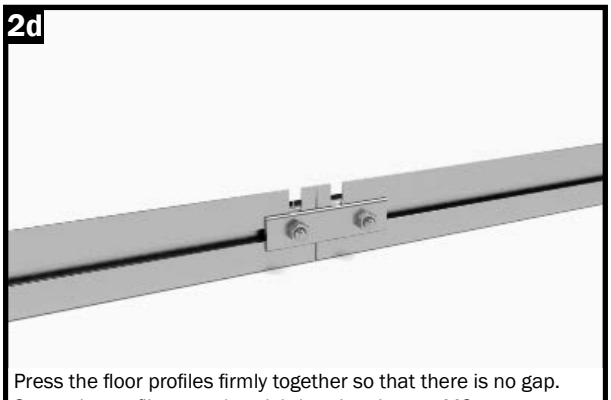
Insert one M6x12 mm screw each into the screw channel of the floor profile.

2c



Place the longitudinal connector on the M6x12 mm screws.

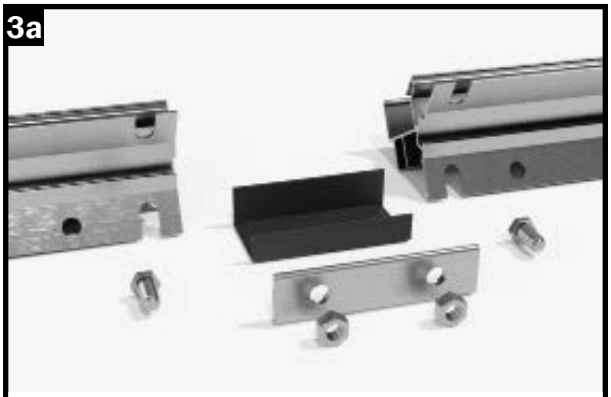
2d



Press the floor profiles firmly together so that there is no gap. Screw the profiles together tightly using the two M6 nuts.

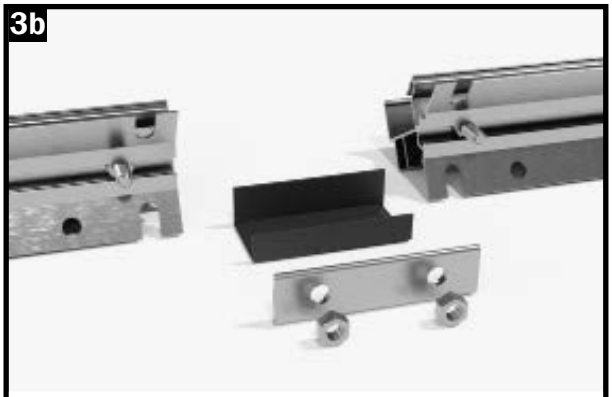
Step 3 – Connecting the longitudinal parts (floor profile, rain gutter, ridge)

3a



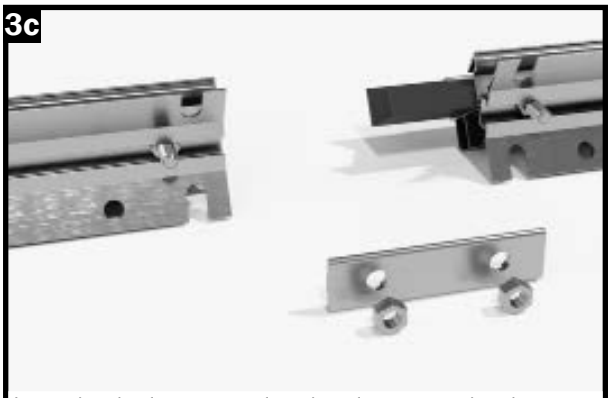
Pick up the rain gutters, the longitudinal connectors, plastic connectors as well as M6x12 mm screws and M6 nuts.

3b



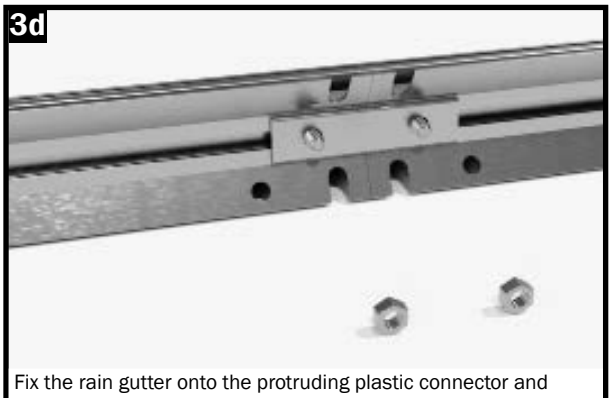
Insert one M6x12 mm screw into the screw channel of each rain gutter part.

3c



Insert the plastic connector into the rain gutter so that the connector is still protruding halfway out of the rain gutter.

3d

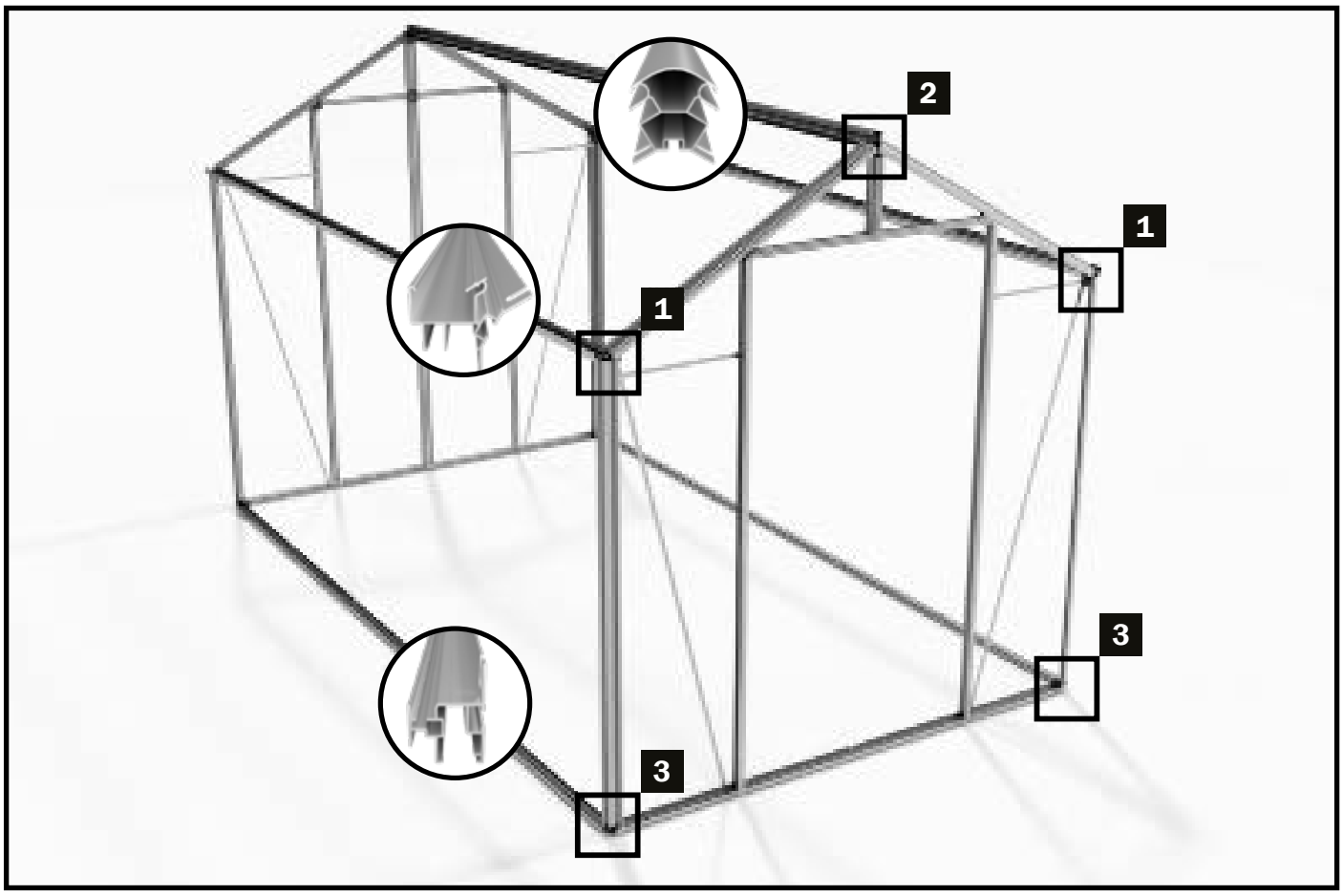


Fix the rain gutter onto the protruding plastic connector and place the longitudinal connector onto the M6x12 mm screws.

3e

Press the rain gutter parts firmly together so that there is no gap. Screw the profiles together tightly using the two M6 nuts.

Step 4 – Assembling the longitudinal parts (floor profile, rain gutter, ridge)



For this assembly step you will need:

SKETCH		DESIGNATION	Qty.	TOPAS 2	TOPAS 3	TOPAS 4	TOPAS 5	TOPAS 6	TOPAS 7	TOPAS 8	TOPAS 9
		**Floor profile** (already prepared)	**2**	**1267 mm**	**1892 mm**	**2534 mm**	**3159 mm**	**3801 mm**	**4426 mm**	**5068 mm**	**5693 mm**
		**Rain gutter** (already prepared)	**2**	**1267 mm**	**1892 mm**	**2534 mm**	**3159 mm**	**3801 mm**	**4426 mm**	**5068 mm**	**5693 mm**
		**Ridge** (already prepared)	**1**	**1267 mm**	**1892 mm**	**2534 mm**	**3159 mm**	**3801 mm**	**4426 mm**	**5068 mm**	**5693 mm**
	**690509**	**M6x12 mm screw**	**24**								
	**690547**	**M6 nut**	**24**								

STEP 4 – Assembling the longitudinal parts

In the next step, the longitudinal parts (floor profiles, rain gutters and the ridge) are screwed onto the prepared front and rear walls.

This work should be done by at least two people, but ideally by three.

Place the longitudinal parts on the floor. Set up the front or rear wall so that the longitudinal parts are between them, marking the necessary distance between the front and rear walls.

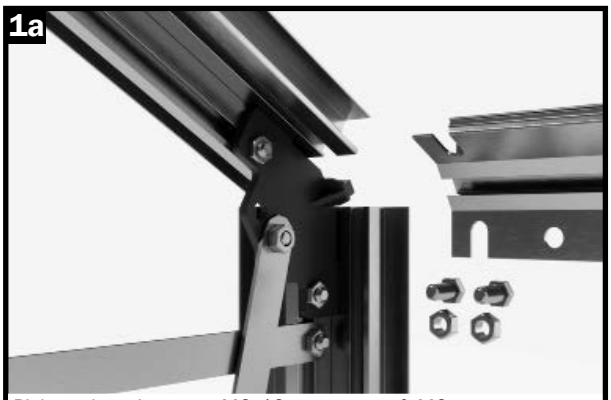
Start by screwing down the rain gutters, then insert the ridge profile. Finally, the two floor profiles are screwed together with the front and rear walls.

Note:

The screw connections are exactly the same on the front and rear walls. Screw the part tightly to the front wall first, then to the rear wall. Begin the next assembly step only after both sides have been screwed together!

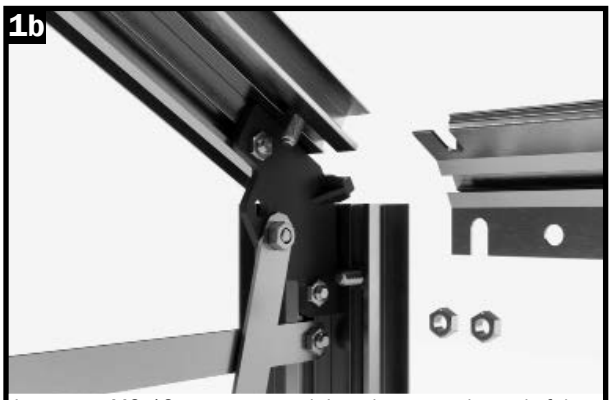
Step 4 – Assembling the longitudinal parts (floor profile, rain gutter, ridge)

1a



Pick up the rain gutter, M6x12 mm screws & M6 nuts.

1b



Insert one M6x12 mm screw each into the screw channel of the side corner and roof corner profile.

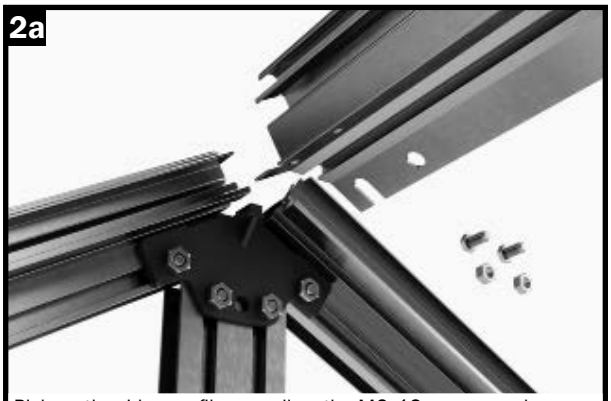
1c

Insert the rain gutter between the side edge profile and the roof corner profile. **If the rain gutter sticks during insertion, please loosen the two nuts of the zinc die-cast joint.**

1d

Insert the M 6x12 mm screws into the two punchouts on the rain gutter and screw them down tightly using M6 nuts.

2a



Pick up the ridge profile as well as the M6x12 screws and M6 nuts.

2b

Insert one M6x12 mm screw each into the screw channel of the roof corner profile.

2c

Insert the ridge profile between the two roof corner profiles. Insert the 6x12 mm screws into the two punchouts in the ridge profile. **If the ridge sticks during insertion, please loosen the two nuts of the zinc die-cast joint.**

2d

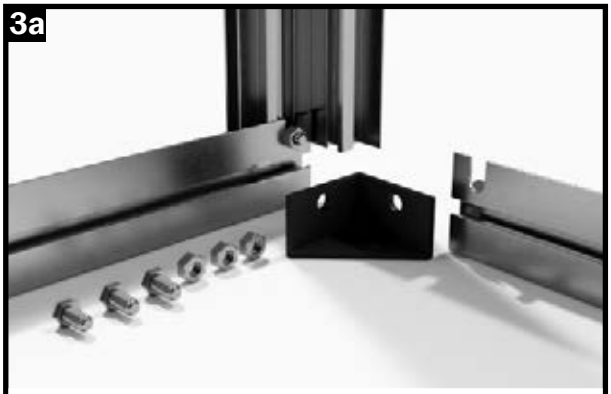
Screw the ridge profile tightly onto the roof corner profiles using M6 nuts.

Note:

If you have decided to purchase a foundation, the steps in Figures 3a to 3g – Connecting the floor profiles – are different.

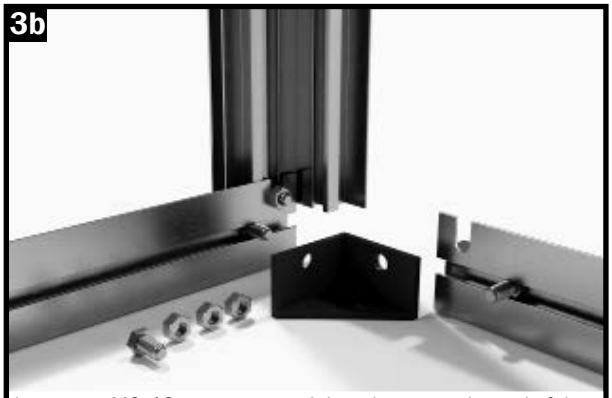
Please see the figures starting on page 14.

3a



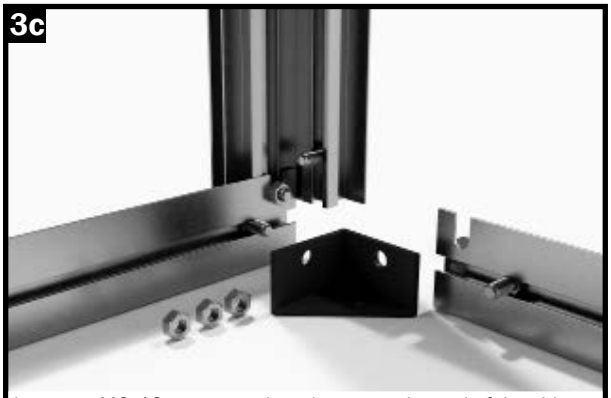
Pick up the floor profile as well as M6x12 mm screws, M6 nuts and the plastic floor joint.

3b



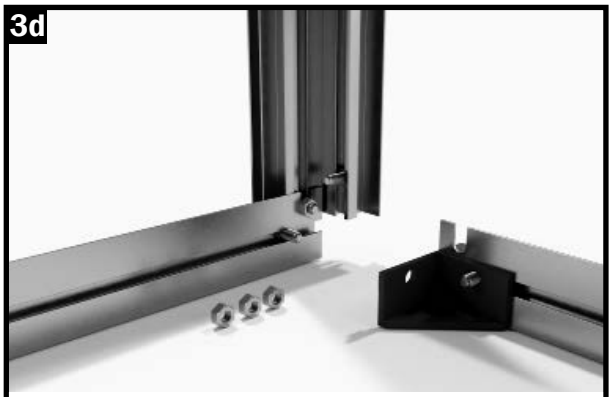
Insert one M6x12 mm screw each into the screw channel of the floor profile of the front and side walls.

3c



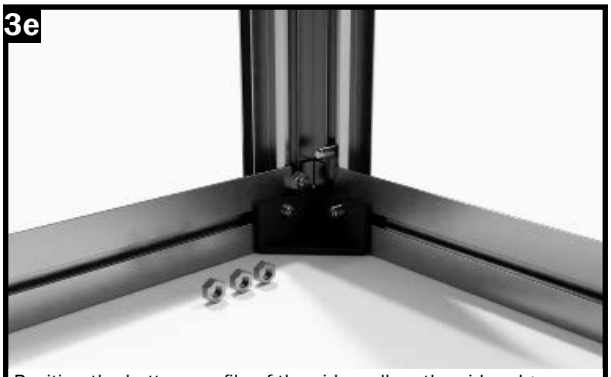
Insert an M6x12 mm screw into the screw channel of the side edge profile.

3d



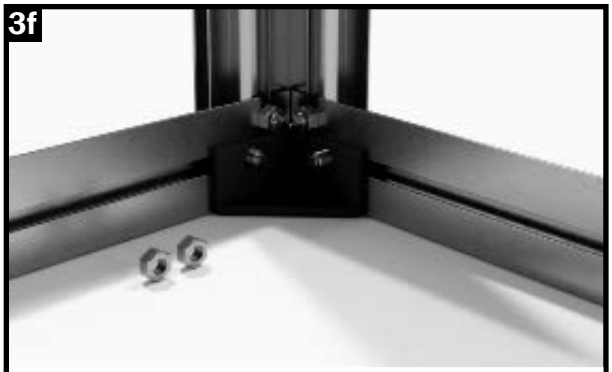
Place the plastic corner of the floor profile on the M6x12 mm screw of the side floor profile.

3e



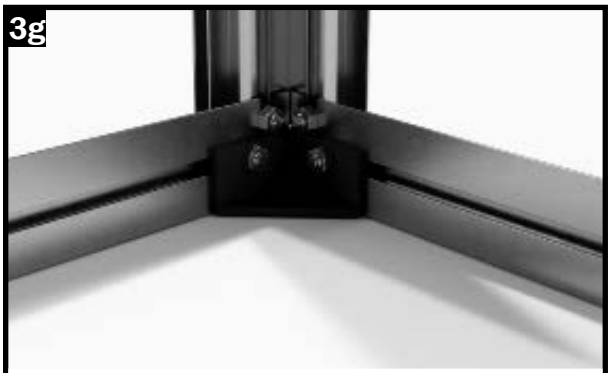
Position the bottom profile of the side wall on the side edge profile. Align the M6x12 mm screw so that it protrudes through the hole in the floor joint.

3f



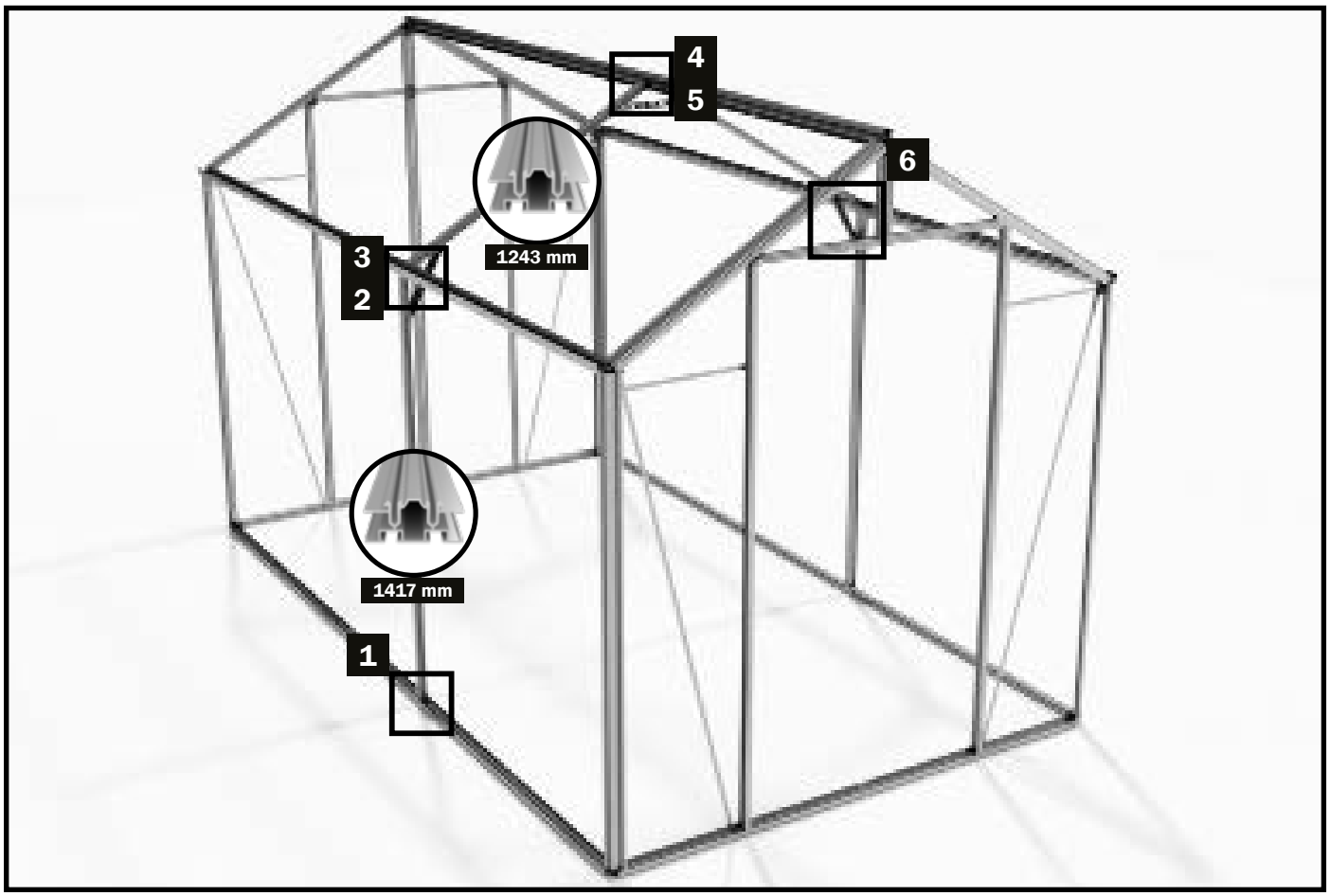
Insert the M6x12 mm screw of the side edge profile into the punchout of the floor profile and screw it tightly with an M6 nut.

3g



Align the floor joint so that it is positioned exactly in the corner of the ground profiles. Screw the floor joint tightly to the ground profiles with two M6 nuts.

Step 5 – Assembling the coupling profiles



For this assembly step you will need:

SKETCH	PART. NO.	DESIGNATION	LENGTH	TOPAS 2	TOPAS 3	TOPAS 4	TOPAS 5	TOPAS 6	TOPAS 7	TOPAS 8	TOPAS 9
	13-1417.1	Coupling strut, sidewall	1417 mm	-	-	2	2	4	4	6	6
	13-1243.1	Coupling strut, roof	1243 mm	-	-	2	2	4	4	6	6
	126-0025.1	Reinforcement for ridge and rain gutter	25 mm	-	-	3	3	6	6	9	9
	690509	M6x12 mm screw		-	-	22	22	44	44	66	66
	690547	M6 nut		-	-	22	22	44	44	66	66

STEP 5 – Assembling the coupling struts

In the following assembly phase, the coupling struts are mounted on the side walls and the roof.

Please note that the longitudinal profiles (ridge, rain gutters and floor profiles) are not yet divided for the TOPAS 2 and TOPAS 3 models.

If you have purchased a TOPAS 2 or TOPAS 3 model, this assembly step is not necessary.

Please scroll forward to the point “Assembly of the side wall and roof struts“ on page 54.

Step 5 – Assembling the coupling profiles

1a

Pick up the coupling profile of the side wall as well as M6x12 mm screws and M6 nuts.

1b

Insert one M6x12 mm screw each into the screw channel of the coupling profile.

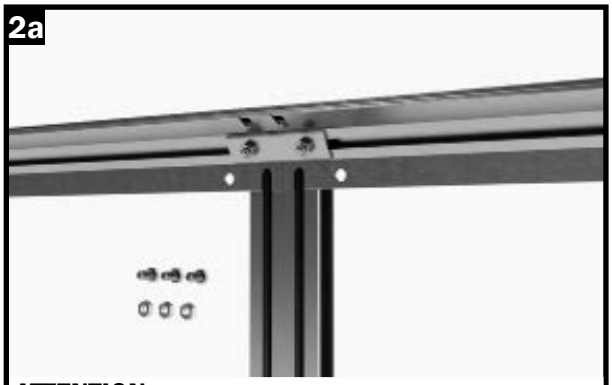
1c

Place the coupling profile on the floor profile and position the M6x12 screws in the punchouts of the floor profile.

1d

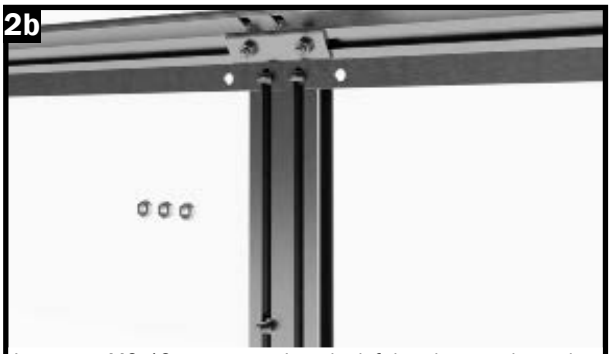
Screw the coupling profile tightly onto the floor profile using two M6 nuts.

2a



ATTENTION: At the top of the coupling profile you need **three** M6x12 mm screws and **three** M6 nuts.

2b



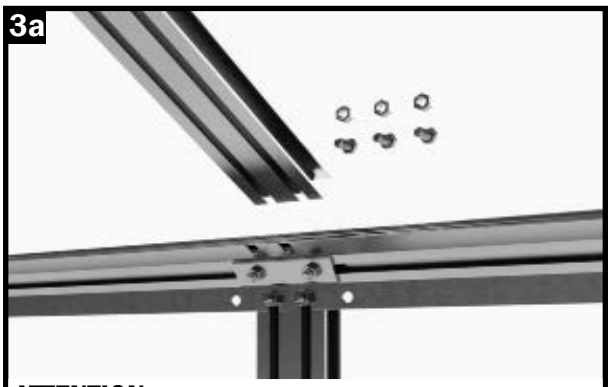
Insert two M6x12 mm screws into the left-hand screw channel and one screw into the right-hand screw channel of the coupling profile. Position one M6x12 mm screw each in the punchout of the rain gutter.

2c

Screw the coupling profile tightly onto the rain gutter using two M6 nuts. Secure the remaining screw of the left-hand screw channel with a nut to prevent it from slipping.

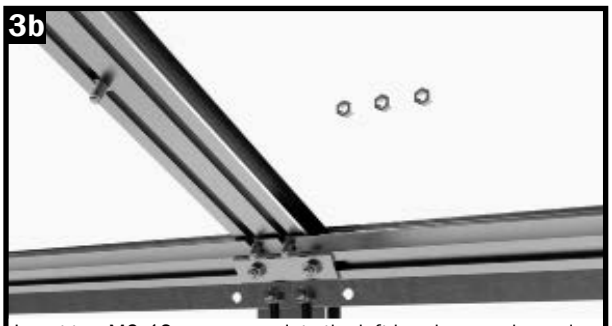
Step 5 – Assembling the coupling profiles

3a



ATTENTION: At the bottom of the coupling profile you need **three** M6x12 mm screws and **three** M6 nuts.

3b

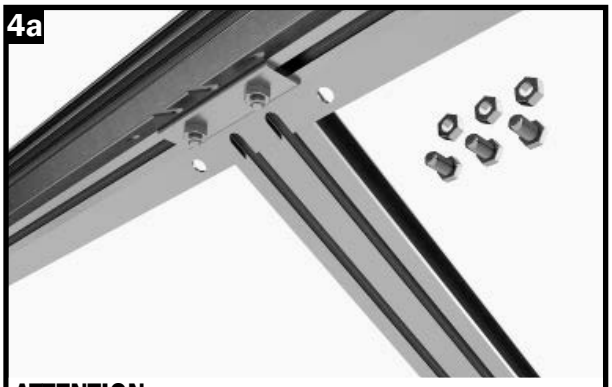


Insert two M6x12 mm screws into the left-hand screw channel and one screw into the right-hand screw channel of the coupling profile.
Correctly position the coupling profile and insert two screws into the punchouts of the rain gutter.

3c

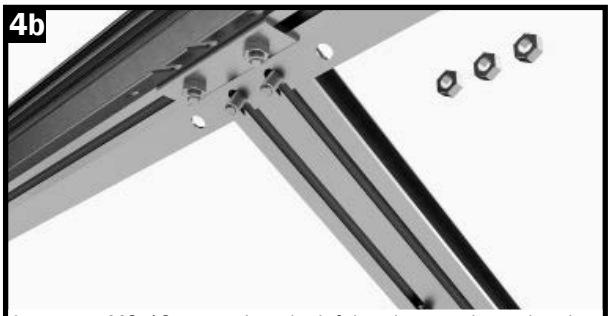
Screw the coupling profile tightly onto the rain gutter using two M6 nuts. Secure the remaining screw of the left-hand screw channel using an M6 nut to prevent it from slipping.

4a



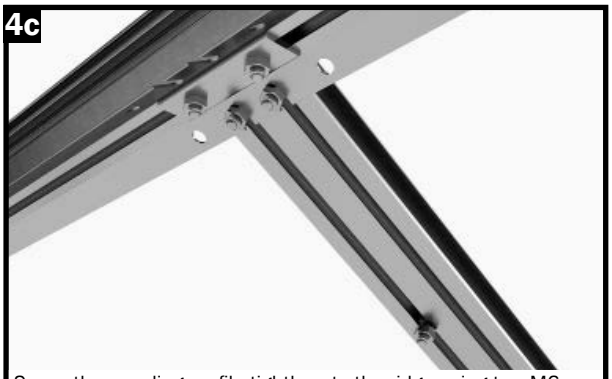
ATTENTION: At the top of the coupling profile you need **three** M6x12 mm screws and **three** M6 nuts.

4b



Insert two M6x12 screws into the left-hand screw channel and one screw into the right-hand screw channel of the coupling profile.
Correctly position the coupling profile and insert two screws into the punchouts of the ridge.

4c



Screw the coupling profile tightly onto the ridge using two M6 nuts. Secure the remaining screw of the left-hand screw channel using an M6 nut to prevent it from slipping.

NOTE: Assembling the reinforcement for ridge and rain gutter

To further improve the roof loads of our greenhouses, we have added additional reinforcements to the areas where the longitudinal profiles (ridge profile and rain gutter) connect to each other.

Please install one connecting reinforcement each on the ridge partition and one on each of the two rain gutters.

Tip:
In order to achieve the best stability, we recommend that you slightly span the ridge outwards with an auxiliary support before installing the reinforcements.
When mounting the reinforcements on the rain gutters, please make sure that the rain gutters are aligned exactly straight, but under no circumstances bend outwards!

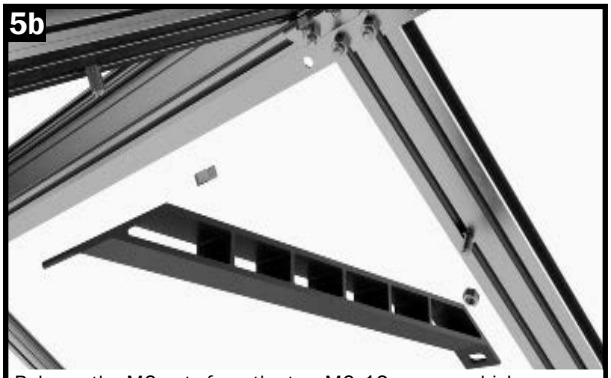
It is best to remove the support of the ridge only after the greenhouse has been glazed!

Step 5 – Assembling the coupling profiles (ridge + rain gutter reinforcement)

5a

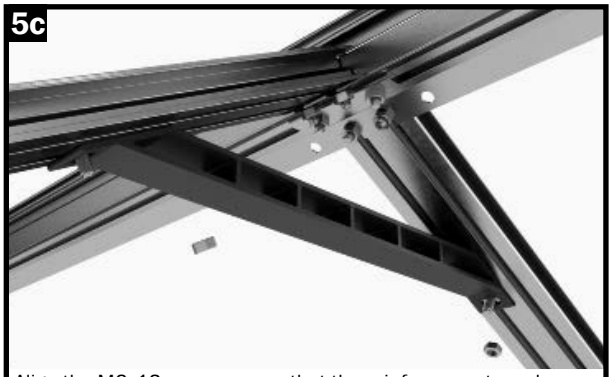
Support the ridge using an auxiliary support, as described. Pick up one “ridge + rain gutter reinforcement“.

5b



Release the M6 nuts from the two M6x12 screws, which were previously inserted in the coupling profile in the area of the ridge.

5c



Align the M6x12 mm screw so that the reinforcement can be attached. Align the reinforcement so that it is horizontal and screw it on tightly using M6 nuts.

6a

Pick up one “ridge + rain gutter reinforcement“.

6b

Release the M6 nuts from the two M6x12 screws, which were previously inserted in the coupling profile.

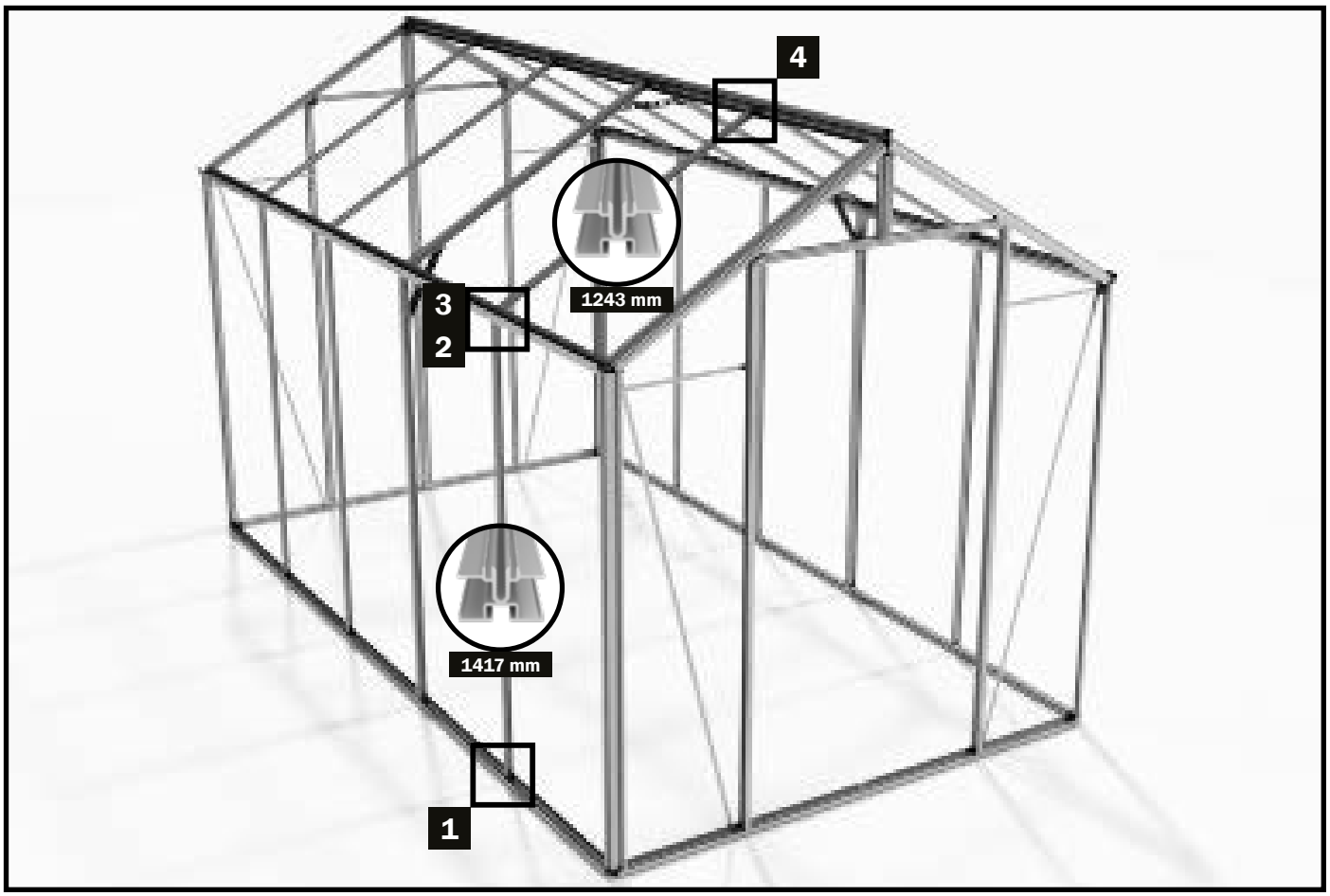
6c

Align the M6x12 mm screws so that the reinforcement can be attached, then put the reinforcement in place.

6d

Align the bracing cleanly and screw it on tightly using M6 nuts.

Step 6 – Assembling the side wall and roof struts



For this assembly step you will need:

SKETCH	PART. NO.	DESIGNATION	LENGTH	TOPAS 2	TOPAS 3	TOPAS 4	TOPAS 5	TOPAS 6	TOPAS 7	TOPAS 8	TOPAS 9
	12-1417.1	Side wall strut	1417 mm	2	4	4	6	6	8	8	10
	12-1243.1	Roof strut	1243 mm	2	4	4	6	6	8	8	10
	690509	M6x12 mm screw		8	16	16	24	24	32	32	40
	690547	M6 nut		8	16	16	24	24	32	32	40

Step 6 – Assembling the side wall and roof struts

1a

Pick up one side wall strut, one M6x12 mm screw and one M6 nut.

1b

Insert an M6x12 mm screw on the underside into the screw channel of the strut.

1c

Place the side wall strut on the floor profile. Position the M6x12 mm screw in the punchout in the floor profile.

1d

Screw the strut tightly onto the floor profile using an M6 nut.

2a

Pick up one M6x12 mm screw and one M6 nut.

2b

Insert an M6x12 mm screw on the upper side into the screw channel of the strut.

2c

Screw the strut tightly onto the rain gutter using an M6 nut.

3a

Pick up one roof strut, one M6x12 mm screw and one M6 nut.

Step 6 – Assembling the side wall and roof struts

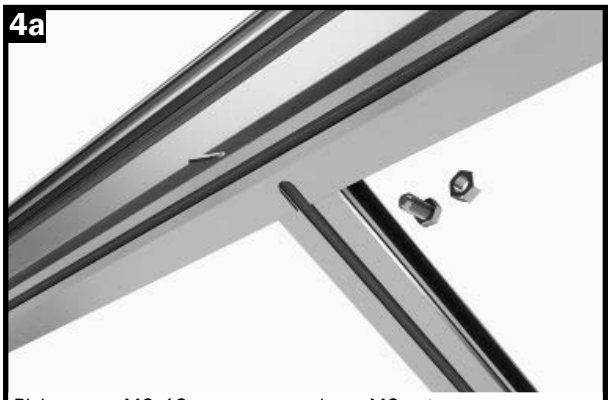
3b

Insert the M6x12 screw into the screw channel of the roof strut. Place these on the rain gutter. Position the M6x12 screw in the punchout of the rain gutter.

3c

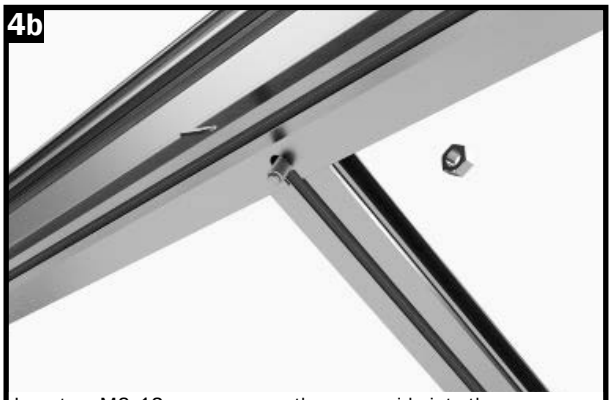
Screw the strut tightly onto the rain gutter using an M6 nut.

4a



Pick up one M6x12 mm screw and one M6 nut.

4b



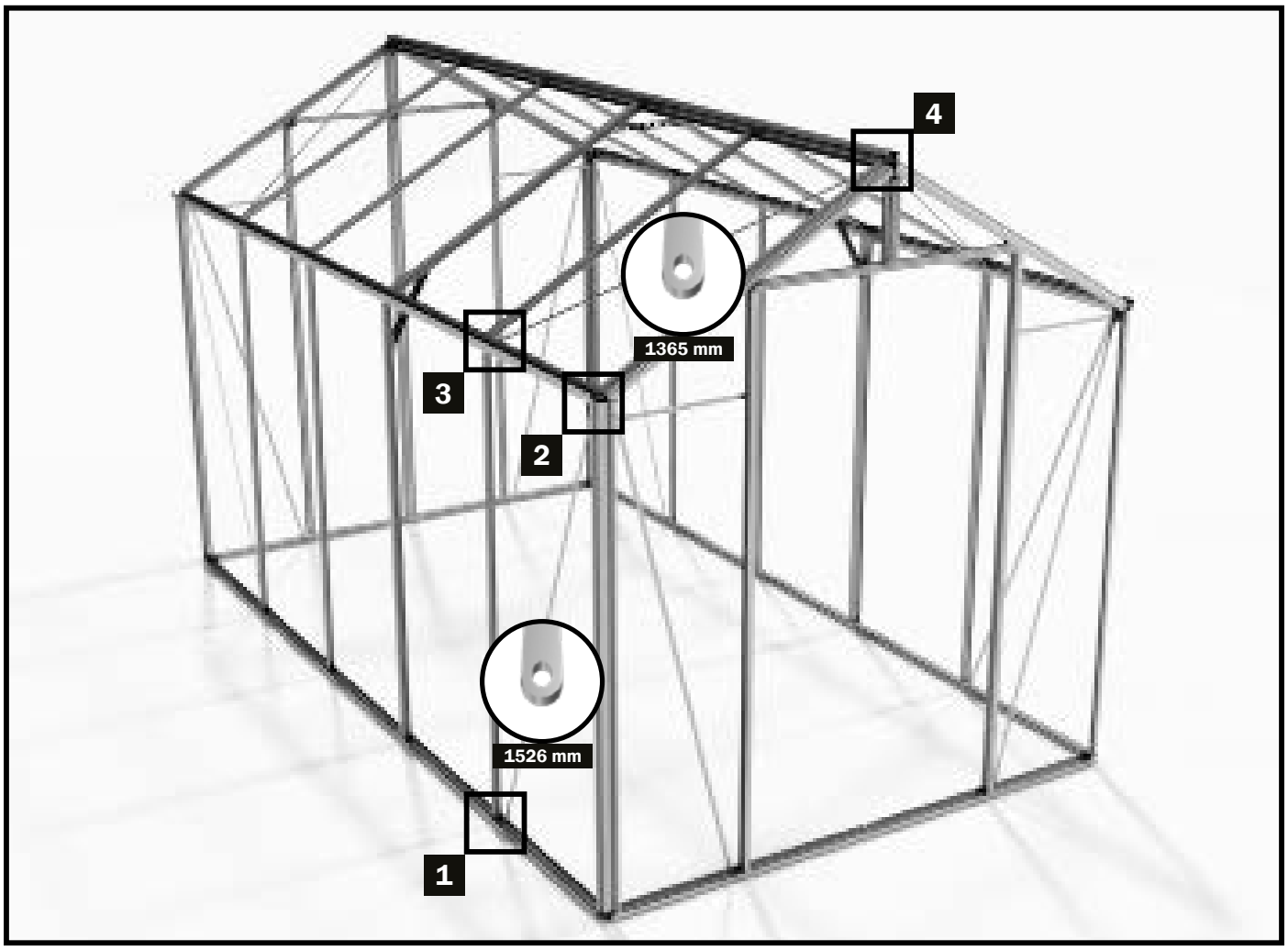
Insert an M6x12 mm screw on the upper side into the screw channel of the roof strut.

4c

Screw the strut tightly onto the ridge using an M6 nut.

Perform the individual assembly steps for all other side wall and roof struts.

Step 7 – Assembling the wind bracings on the side walls and roof



For this assembly step you will need:

SKETCH	PART. NO.	DESIGNATION	LENGTH	TOPAS 2	TOPAS 3	TOPAS 4	TOPAS 5	TOPAS 6	TOPAS 7	TOPAS 8	TOPAS 9
	1502-1526.1	Wind bracing, side wall	1526 mm	4	4	4	4	4	4	4	4
	1502-1365.1	Wind bracing, roof	1365 mm	4	4	4	4	4	4	4	4
	690509	M6x12 mm screw		16	16	16	16	16	16	16	16
	690547	M6 nut		16	16	16	16	16	16	16	16

NOTE:

With the TOPAS 2 greenhouse, a wind bracing from the roof crosses the surface in which the window is placed.
With TOPAS 2, this one wind bracing on the roof can be omitted during installation if this wind bracing is in your way.

However, we would like to urgently point out that all four wind bracings must be installed on all larger models so that the roof loads can be appropriately absorbed.

If you do not want the skylight to be crossed by a wind bracing on the inside, we recommend that with the larger models (from TOPAS 3) you do not install any of the windows on the outer roof panels!

Step 7 – Assembling the wind bracings on the side walls and roof

1a

Pick up one side wall wind bracing, one M6x12 mm screw and one M6 nut.

1b

Insert an M6x12 screw from the outside through the punched-out hole in the floor profile for the screw and place the wind bracing on it.

1c

Screw the wind bracing tightly onto the floor profile using an M6 nut.

2a

Position the other end of the wind bracing so that the punchout of the wind bracing is aligned with the punchout of the rain gutter.

2c

Insert an M6x12 mm screw from the outside through the punched out hole for the screw in the rain gutter.

2d

Screw the wind bracing tightly onto the rain gutter using an M6 nut.

3a

Pick up one roof wind bracing, one M6x12 mm screw and one M6 nut.

3b

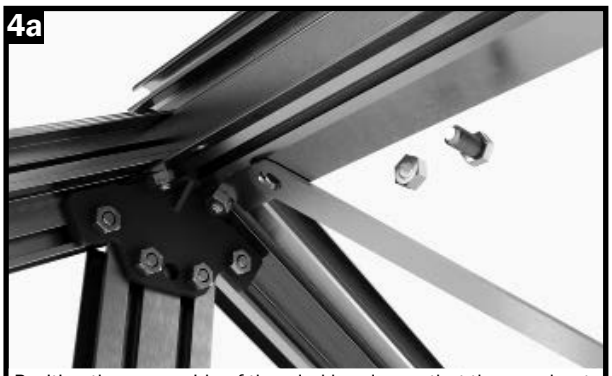
Insert an M6x12 screw from the outside through the punched-out hole for the screw in the rain gutter and place the wind bracing on it.

Step 7 – Assembling the wind bracings on the side walls and roof

3c

Screw the wind bracing tightly onto the rain gutter using an M6 nut.

4a



Position the upper side of the wind bracing so that the punchout of the wind bracing is aligned with the punchout of the ridge.

4b

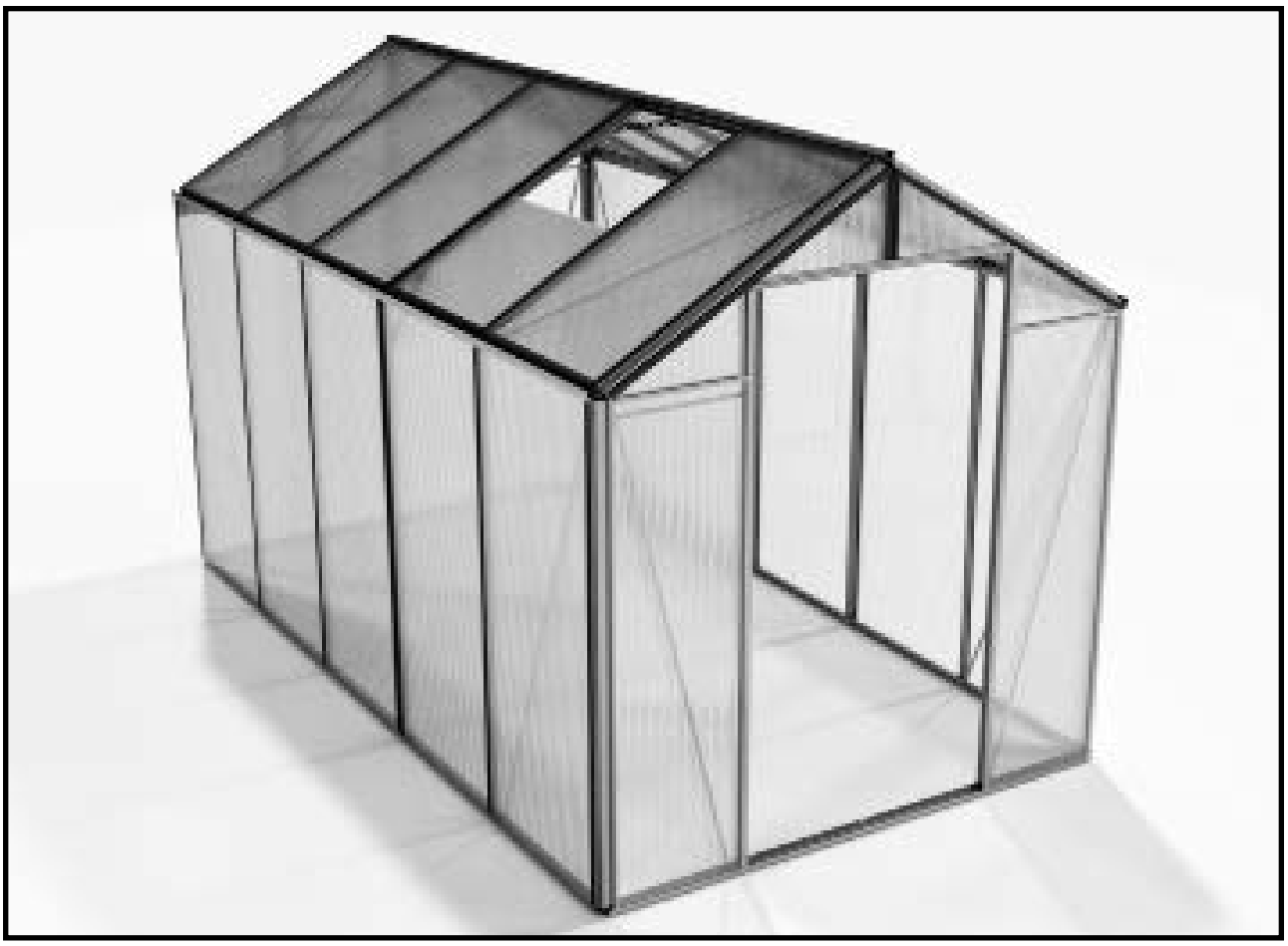
Insert an M6x12 mm screw from the outside through the punched-out hole for the screw in the ridge.

4c

Screw the wind bracing tightly onto the ridge using an M6 nut.

Perform the individual assembly steps for all other wind bracings of the side wall and the roof.

Step 8 – Glazing the greenhouse

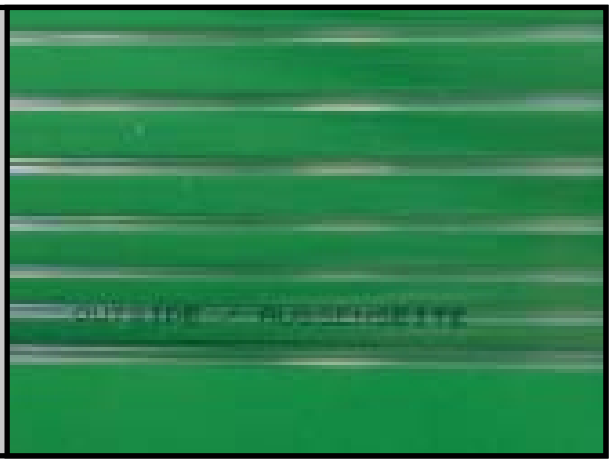


Inserting the twin-wall sheets

In the following steps, the twin-wall sheets of your greenhouse are inserted into the prepared aluminium frame.

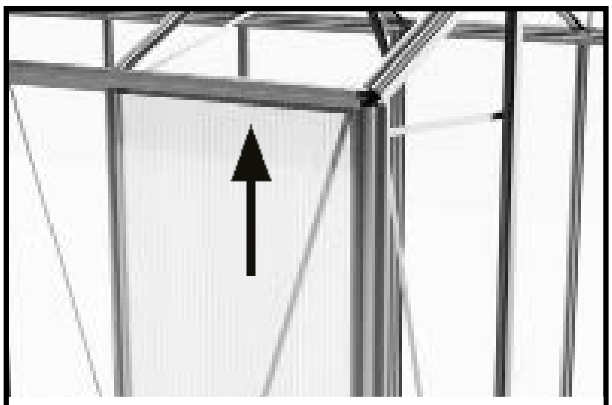
BEFORE ASSEMBLY:
Note that the glazing sheets have an inside and outside.
The outside is UV-resistant and is marked with the inscription "OUTSIDE".

Alternatively, a film can be applied to the sheets – the side with the film is the outer side.

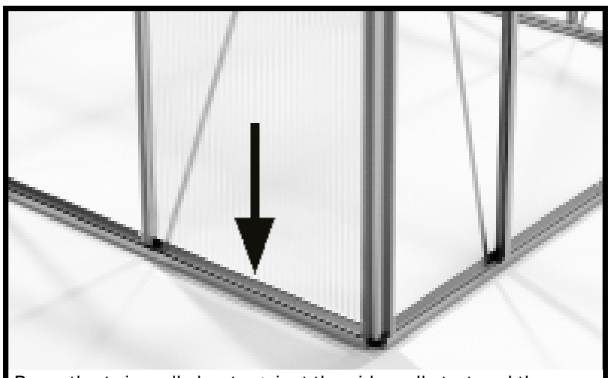


1. Side walls and roof

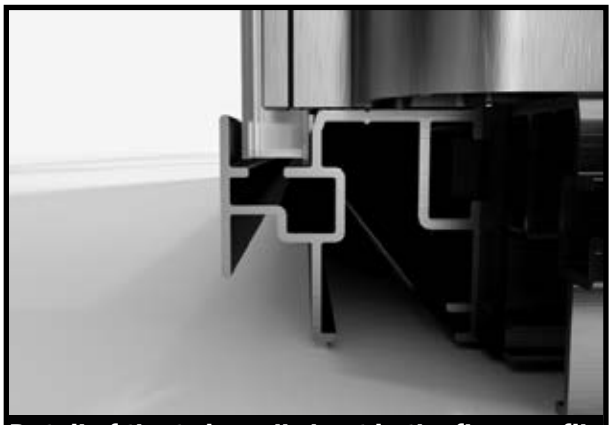
Take a side twin-wall sheet and insert it into the foremost section of the side wall.
It may be necessary to loosen the wind bracing on the inside again to align the greenhouse exactly perpendicularly.



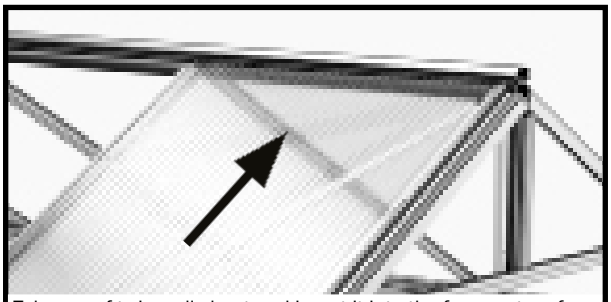
Insert the side wall panels into the frame. Push them from below into the groove of the rain gutter.



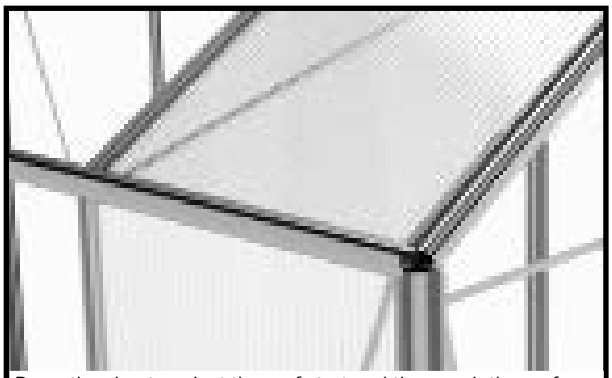
Press the twin-wall sheet against the side wall strut and then firmly downwards so that the sheet is inserted into the groove of the floor profile.



Detail of the twin-wall sheet in the floor profile



Take a roof twin-wall sheet and insert it into the foremost roof panel. Insert the roof panel into the frame. Push it from below into the groove of the ridge.
It may be necessary to loosen the wind bracing on the inside again to align the greenhouse exactly perpendicularly.



Press the sheet against the roof strut and then push the roof panel firmly downwards so that the sheet rests on the small positioning lip of the rain gutter.

Detail: Twin-wall sheet on the positioning lip of the rain gutter.

Finish glazing the side walls and the roof in the same way.

Note on twin-wall roof sheets:
When glazing the roof, you need to decide in advance where the skylights will be situated. For these panels, you will only glaze the roof halfway to the ridge.

We recommend installing the window openings on the side facing away from the prevailing wind, if possible.

Note that two skylights cannot be positioned directly next to each other!

NOTE:

Attaching the glazing strips to the greenhouse is explained in the following steps.

The twin-wall sheets are secured to the greenhouse frame with the aluminium terminal strips.

We recommend attaching the glazing strips to the greenhouse parallel to inserting the twin-wall sheets, so that the sheets are fixed directly to the greenhouse and can no longer fall off, e.g., due to a gust of wind.

Do not forget to screw the wind bracings back on tightly after completing the glazing, if necessary!

Step 8 – Glazing the greenhouse

Attaching the glazing strips:

The twin-wall sheets are secured to the greenhouse frame with the aluminium terminal strips.

The side and roof corner profiles as well as the coupling profiles have asymmetrical terminal strips, the roof and side wall struts have symmetrical terminal strips. The terminal strips and profiles each have the same length!

The terminal strips are screwed to the respective struts using 3.9 × 13 mm drilling screws. The necessary holes have already been pre-drilled into the strips.

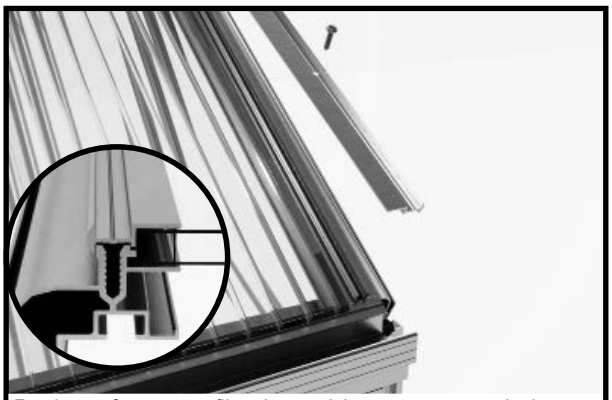
NOTE!

If you place your greenhouse in a particularly wind-exposed area, we recommend installing additional drilling screws between the existing screw connections. To do this, screw the terminal strips to the greenhouse, drill the additional holes (3 mm drill bits) into the terminal strips and screw with 3.9x13 mm drilling screws.
(A corresponding number of 3.9x13 mm screws is already included in the assembly kit.)

For the side edge profile, pick up an asymmetrical terminal strip and 3.9x13 mm sheet metal driver.

Place the asymmetrical terminal strip on the side edge profile. **NOTE:** The side edge profile and terminal strip must have the same length!

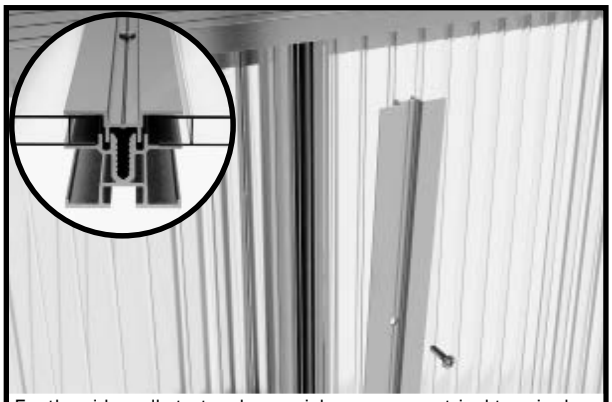
Screw the asymmetrical terminal strip to the side edge profile.



For the roof corner profile, please pick up an asymmetrical terminal strip and 3.9x13 mm sheet metal driver.

Place the asymmetrical terminal strip on the roof corner profile. **NOTE:** The roof corner profile and terminal strip must have the same length!

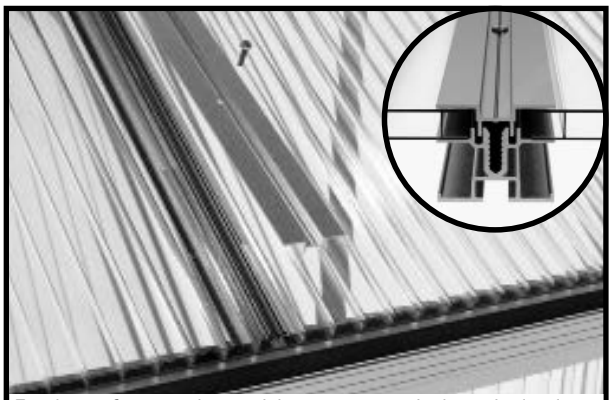
Screw the asymmetrical terminal strip to the side edge profile.



For the side wall struts, please pick up a symmetrical terminal strip and 3.9x13 mm sheet metal driver.

Place the symmetrical terminal strip on the struts of the side wall. **NOTE:** The side wall strut and terminal strip must have the same length!

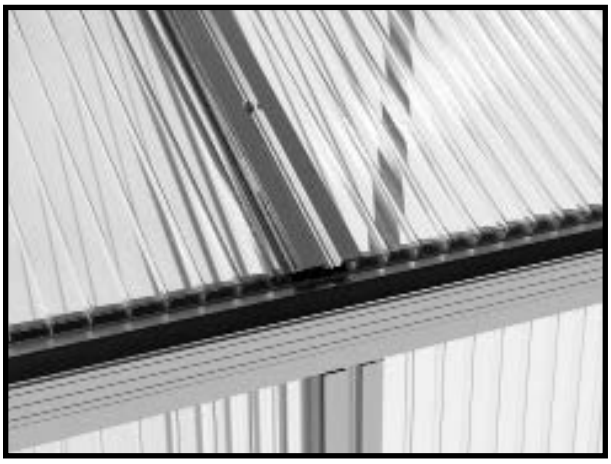
Screw the terminal strip to the side wall strut



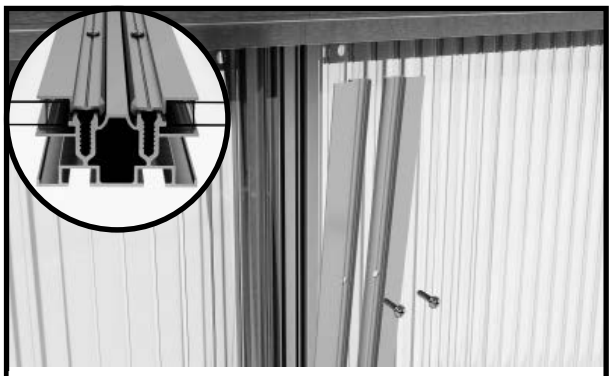
For the roof struts, please pick up a symmetrical terminal strip and 3.9x13 mm sheet metal driver.

Place the symmetrical terminal strip on the struts of the roof. **NOTE:** The roof strut and terminal strip must have the same length!

Screw the terminal strip to the roof strut.



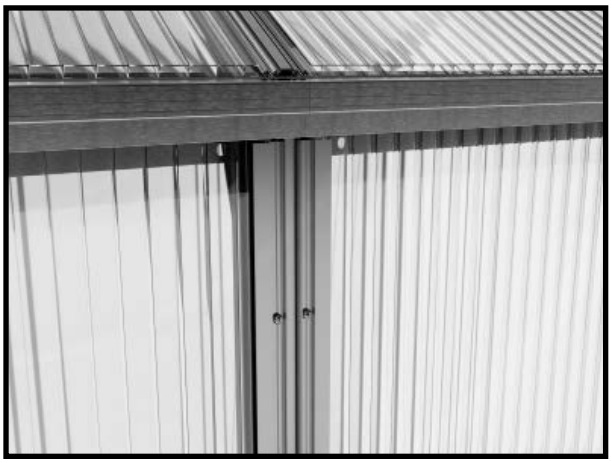
Step 8 – Glazing the greenhouse



For the side wall coupling strut, please pick up two asymmetrical terminal strips and 3.9 x 13 mm sheet metal drivers.

Place the asymmetrical terminal clip on the side wall coupling struts. **NOTE:** The coupling strut and terminal strips must have the same length!

Screw the terminal strip to the side edge profile.



For the roof coupling strut, please pick up two asymmetrical terminal strips and 3.9 x 13 mm sheet metal drivers.

Place the asymmetrical terminal strip on the roof coupling struts. **NOTE:** The coupling strut and terminal strips must have the same length!

Screw the terminal strip to the roof coupling strut.

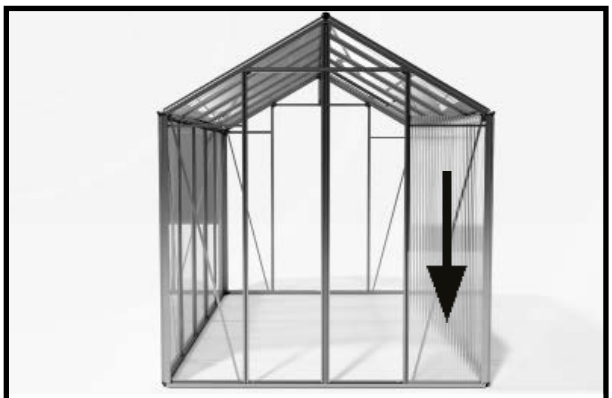
Finally, the roof panels are closed on the underside with a clip. Use a fine-tooth saw to cut the clip to length so that it fits between the aluminium terminal strips.

Press the glazing clip firmly onto the rain gutter. Make sure that it is correctly clipped in along the entire length of the rain gutter.

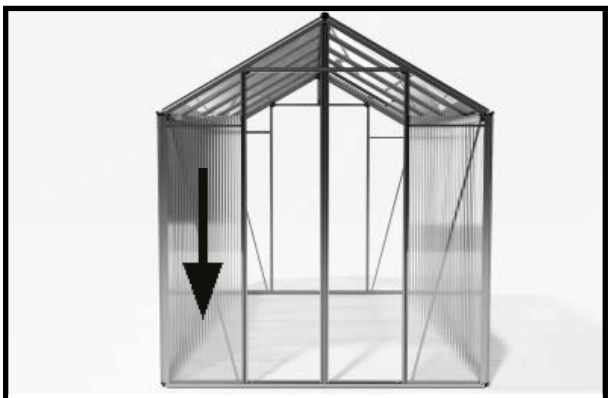
Detail: Clips on the roof corner profile

Detail: Clips on the roof strut

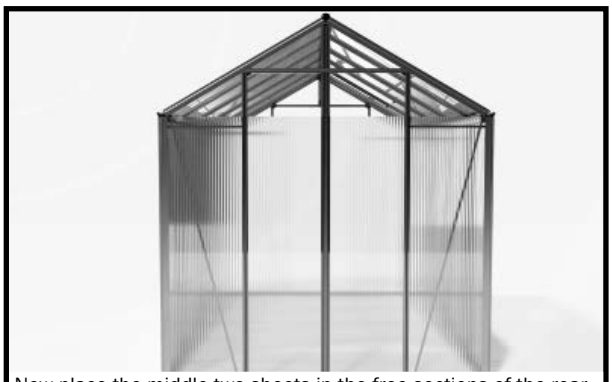
Glazing the rear wall



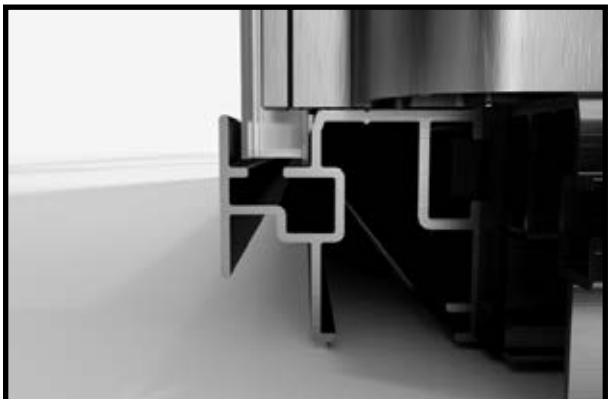
Take a rear wall twin-wall sheet and insert it into the groove of the side edge profile from above.



Take a rear wall twin-wall sheet and insert it into the groove of the second side edge profile from above.



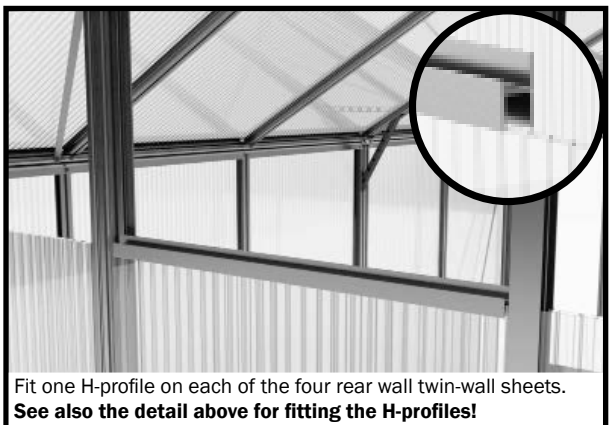
Now place the middle two sheets in the free sections of the rear wall. Make sure that all four sheets are inserted properly into the groove of the floor profile.



Detail of the twin-wall sheet in the floor profile

Step 8 – Glazing the greenhouse

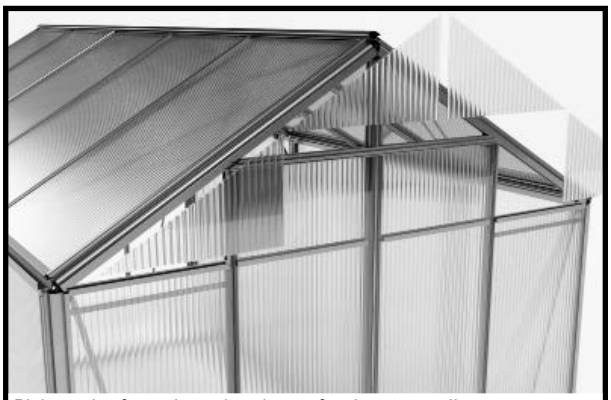
Pick up four H-profiles.



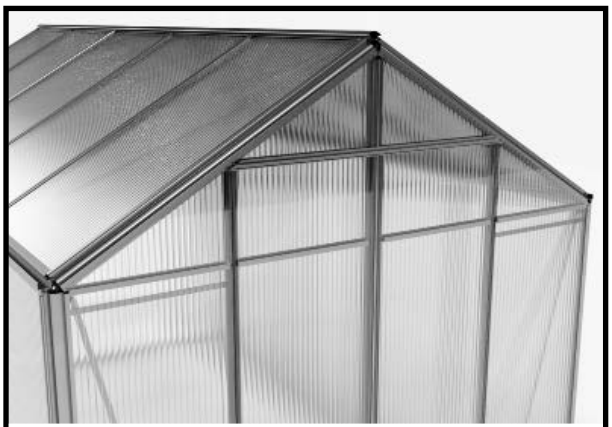
Fit one H-profile on each of the four rear wall twin-wall sheets.
See also the detail above for fitting the H-profiles!

Pick up the two rectangular sheets for the rear wall.

Insert the two sheets into the rear wall.
To do this, insert it from below into the groove of the cross profile, then press the sheet against the struts of the rear wall. Then press the sheets downwards so that they rest firmly on the H-profiles.

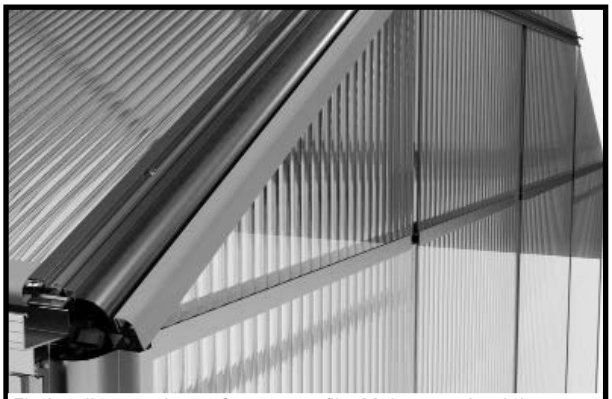


Pick up the four triangular sheets for the rear wall.



Fit the sheets onto the H-profile or the cross profile.

Take two plastic clips and cut them to the length of the roof corner profile.



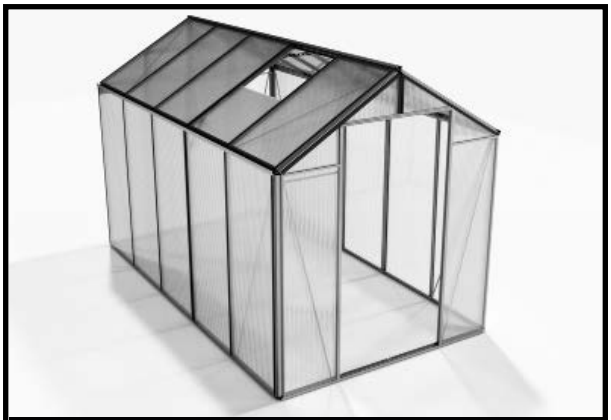
Fit the clip onto the roof corner profile. Make sure that it is correctly clipped in along its entire length.

Pick up the two symmetrical terminal strips for the rear wall struts and the two asymmetrical clamping strips for the rear wall coupling profile.

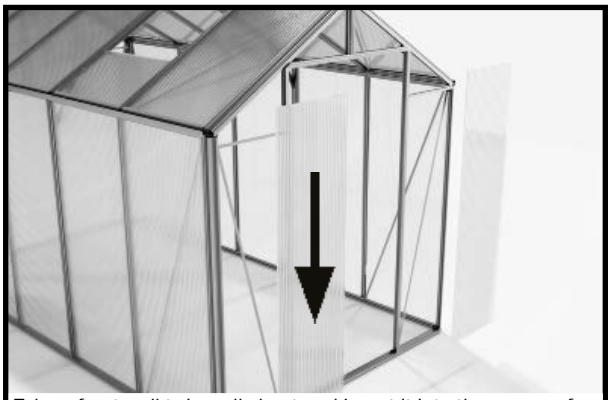
Place the terminal strips on the respective strut.

Screw the strips tightly to the struts of the rear wall with 3.9x13 mm screws.

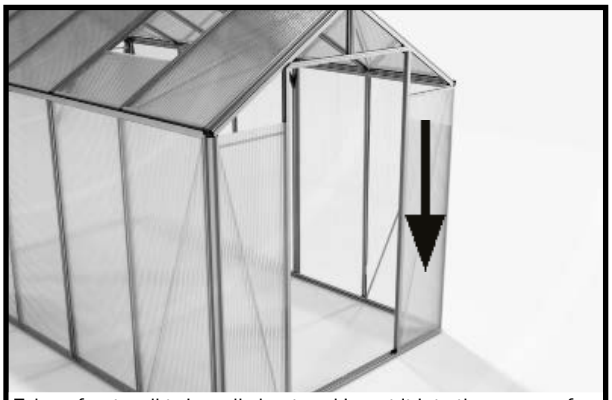
Step 8 – Glazing the greenhouse



Glazing the front wall



Take a front wall twin-wall sheet and insert it into the groove of the side edge profile from above.

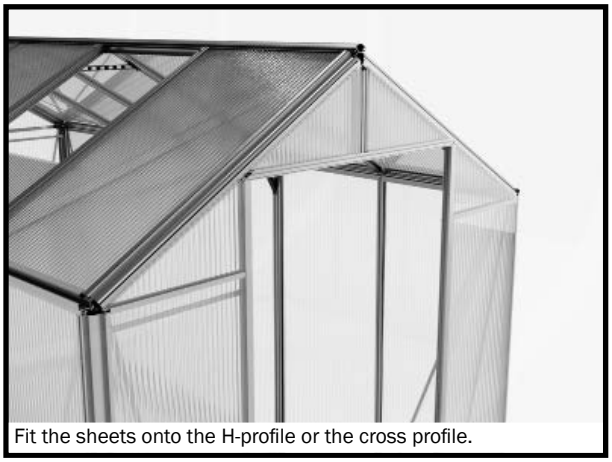


Take a front wall twin-wall sheet and insert it into the groove of the second side edge profile from above.

Pick up two H-profiles.

Fit one H-profile on each of the two twin-wall sheets of the front wall.

Pick up the four triangular sheets for the front wall.



Fit the sheets onto the H-profile or the cross profile.

Take two plastic clips and cut them to the length of the roof corner profile.

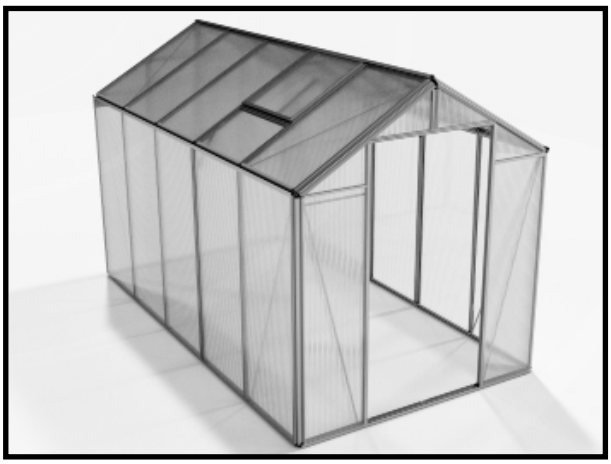
Fit the clips onto the roof corner profile. Make sure that they are well clipped in over the entire length.

Pick up the two asymmetrical terminal strips for the roof support of the front wall.

Fit the two terminal strips onto the roof support.

Screw the terminal strips tightly to the roof support using 3.9x13 mm drilling screws.

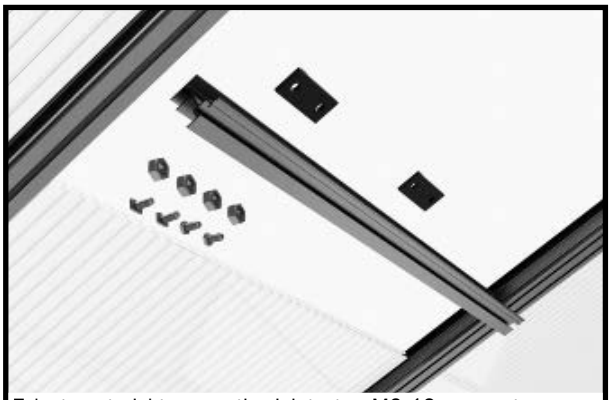
Step 9 – Assembling the window



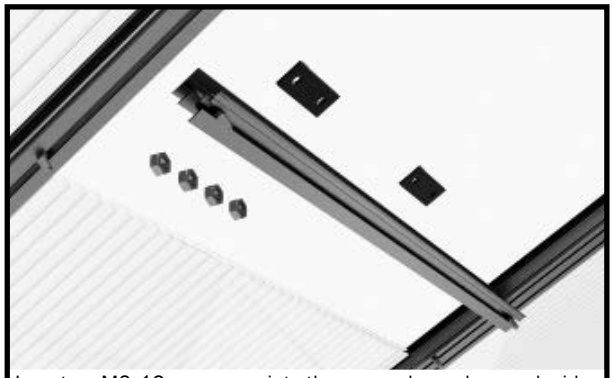
Assembly – WINDOW STOP

In the following phase of assembly, the window stop is mounted at each of the roof panels where a window is to be fixed.

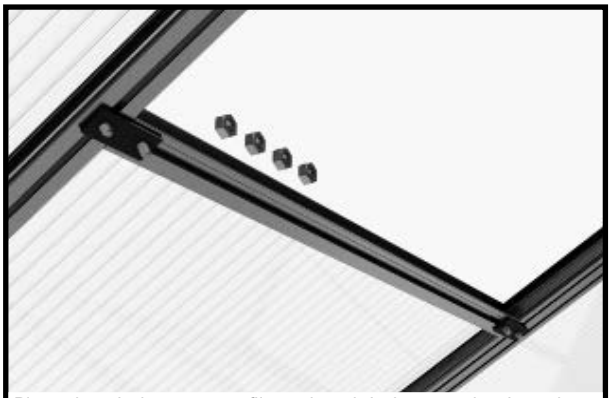
Note:
An M6/12 mm rhombus screw (no. 690622) is used for assembling each window stop profile on each roof strut!!



Take two straight connecting joints, two M6x12 screws, two rhombus screws and four nuts.



Insert an M6x12 mm screw into the screw channel on each side of the stop profile. Insert one rhombus screw each into the screw channel of the roof strut.



Place the window stop profile and push it down so that it pushes firmly against the twin-wall sheet

Screw the plastic connector tightly using M6 nuts.
Make sure that the rhombus screw becomes wedged in the screw channel of the roof strut!

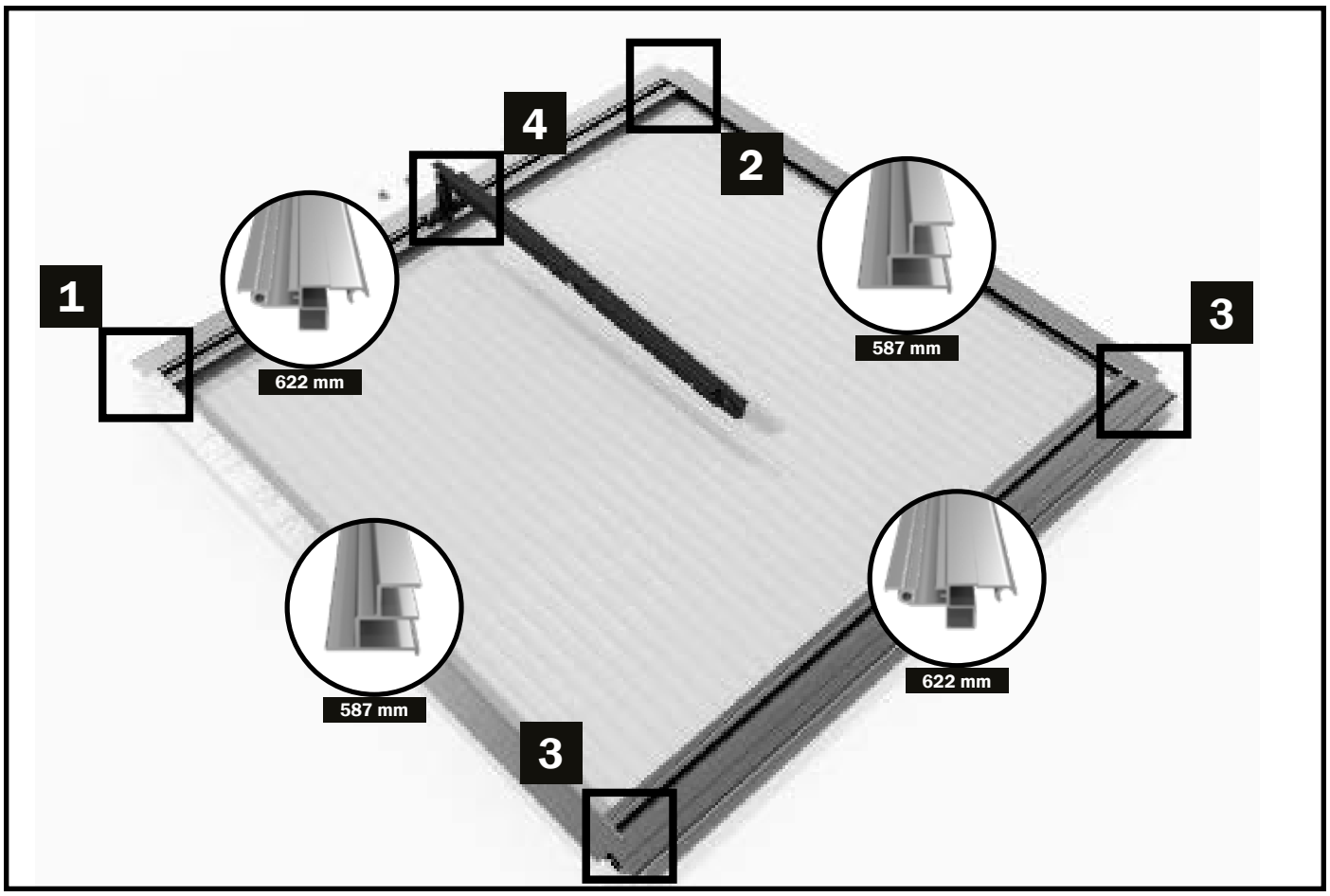
Assembling and installing the window

The window is assembled in the following phase of assembly.

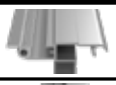
Note: The M6/12 mm screws shown in Figure 1a are only needed once, and are therefore only inserted into the screw channel on one side.

After assembly, the window is pushed into the ridge.

IMPORTANT:
Slide the window from the end of the ridge profile to the desired position.

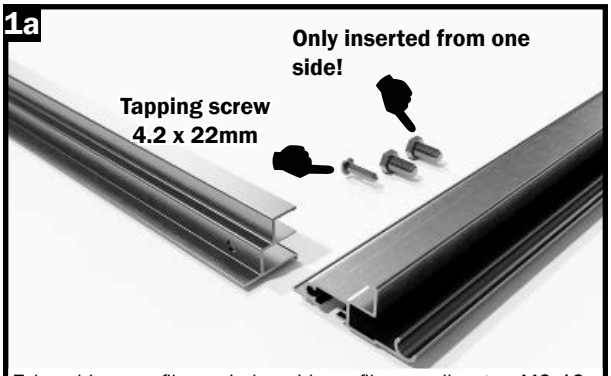


For this assembly step you will need:

SKETCH	PART. NO.	DESIGNATION	LENGTH	TOPAS 2	TOPAS 3	TOPAS 4	TOPAS 5	TOPAS 6	TOPAS 7	TOPAS 8	TOPAS 9
	03-0622-1	Window hinge profile	622 mm	2	2	4	4	6	6	8	8
	04-0587-1	Window profile, side	587 mm	2	2	4	4	6	6	8	8
	15-0594-1	Window stop	594 mm	1	1	2	2	3	3	4	4
	NG206	Connecting joint, straight		2	2	4	4	6	6	8	8
	665958	Hobby window stay		1	1	2	2	3	3	4	4
	664753	Tapping screws, 4.2x22 mm		4	4	8	8	12	12	16	16
	690622	M6x12 mm rhombus screw		2	2	4	4	6	6	8	8
	690509	M6x12 mm screw		4	4	8	8	12	12	16	16
	690547	M6 nut		6	6	12	12	18	18	24	24
		Twin-wall sheet window, 610x603 mm		1	1	2	2	3	3	4	4

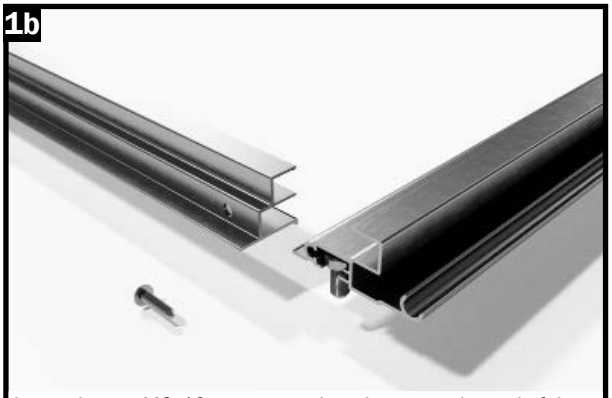
Step 9 – Assembling the window

1a



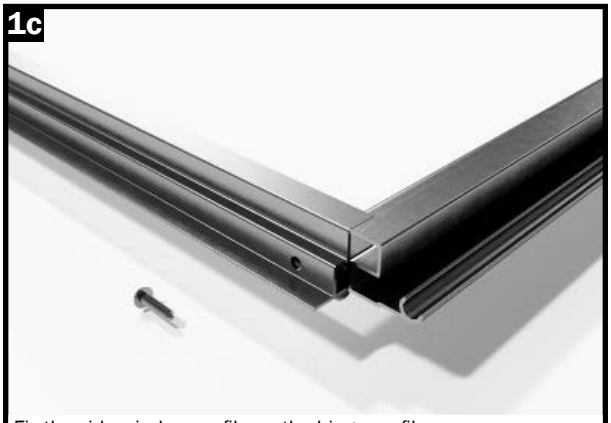
Take a hinge profile, a window side profile as well as two M6x12 mm screws and a 4.2x22 mm tapping screw.

1b



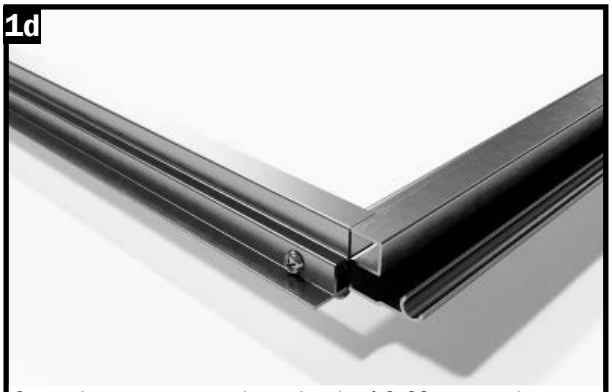
Insert the two M6x12 mm screws into the screw channel of the hinge profile.

1c



Fix the side window profile on the hinge profile.

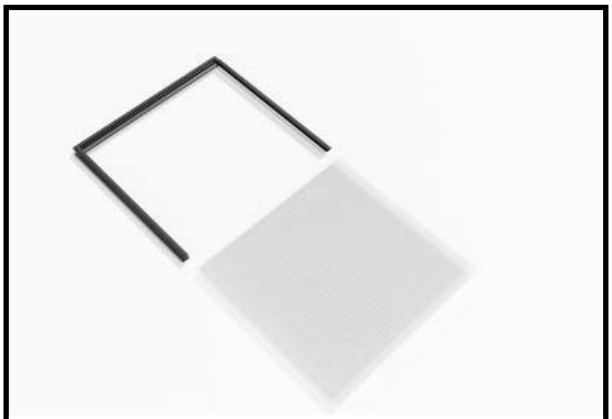
1d



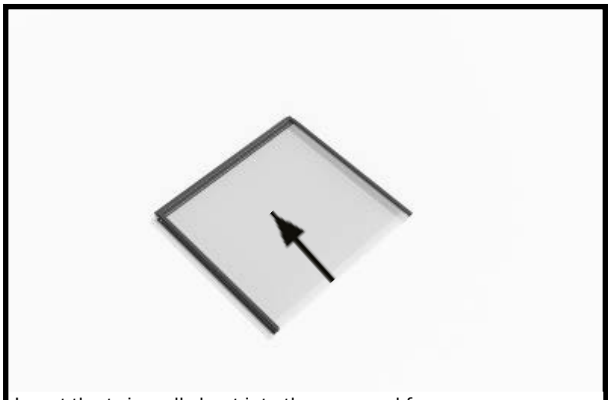
Screw the two parts together using the 4.2x22 mm tapping screw.

2a

On the second side of the hinge profile, fit the second side window profile and screw it on using a 4.2x22 mm tapping screw.



Pick up the twin-wall sheets for the skylight.



Insert the twin-wall sheet into the prepared frame.
Please pay attention to which side belongs on the outside!

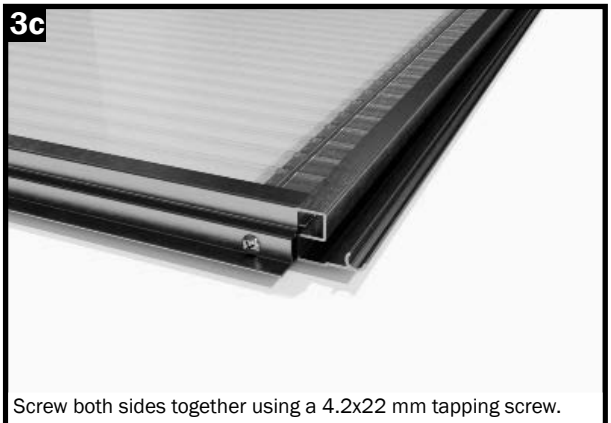
3a

Pick up the second hinge profile and two 4.2x22 mm tapping screws.

3b

Fit the hinge profile onto the side window profiles.

3c



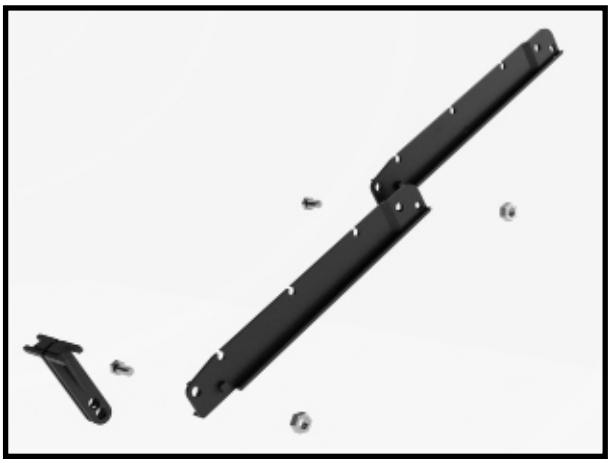
Screw both sides together using a 4.2x22 mm tapping screw.

Mounting the window stay:

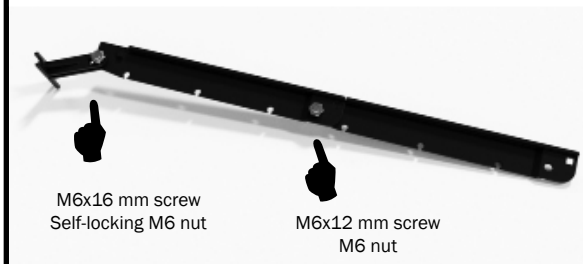
Connect the two individual parts using one M6x12 mm screw and one M6 nut.

The two hinges are screwed together with one M6x16 mm screw and one M6 self-locking nut.

The M6 self-locking nut must be tightened so that the hinges can only be moved with a certain amount of force.



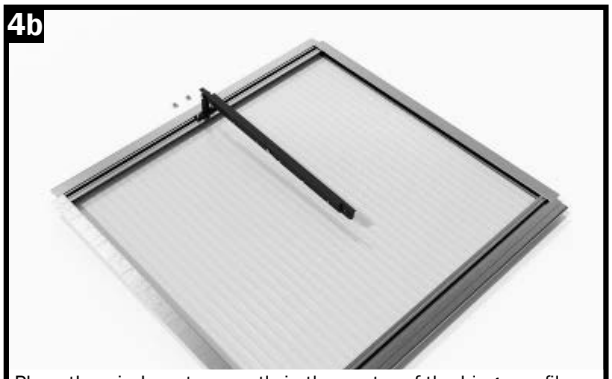
Overview of the window stay assembly



4a

Pick up the prepared window stay and two M6 nuts.

4b



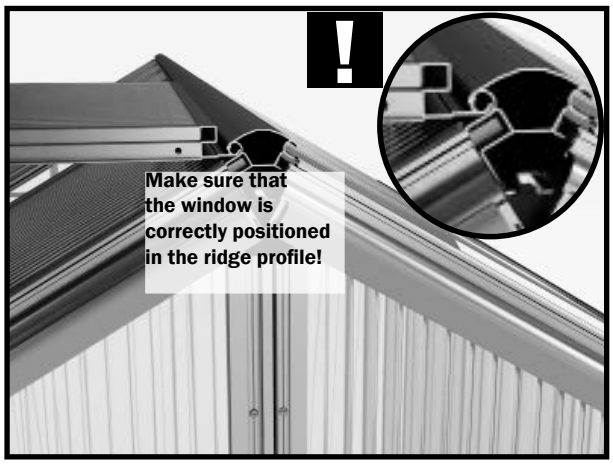
Place the window stay exactly in the centre of the hinge profile. On each side, slide one of the previously inserted M6x12 mm screws into the recess of the stay.

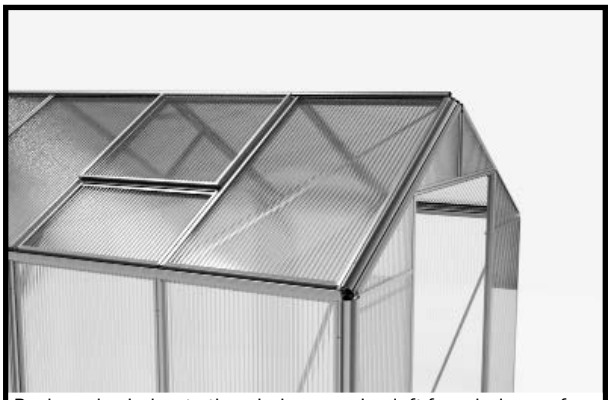
4c

Use two M6 nuts to screw the stay to the hinge profile.

Step 9 – Assembling the window

Insert the window into the ridge profile. **It is recommended that the window hinge is lubricated with a little oil** (not included in the delivery contents)**.**





Push each window to the window opening left free during roof surface glazing.

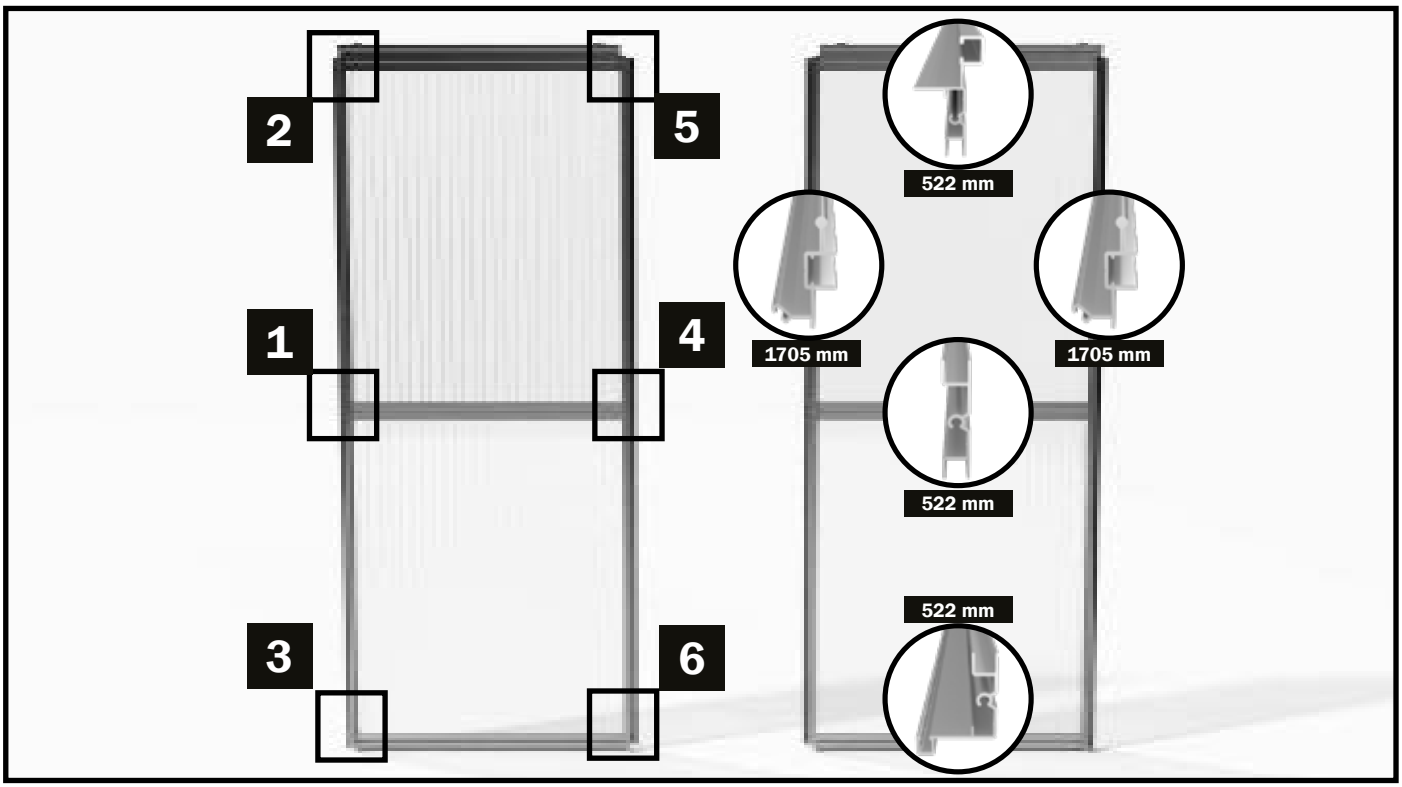
To open the window, the window stay is clipped into the stop profile in the desired position.

To close the window, the stay is angled by 90 degrees.

Automatic window opener

The installation of an automatic skylight opener is recommended as a useful accessory. This ensures carefree and optimal ventilation of your greenhouse. It protects your valuable plants from heat accumulation inside the greenhouse. The temperature is adjustable and it works without electricity. The clasp included in the delivery contents is simply exchanged for the automatic opener.

IMPORTANT: In winter, the automatic window opener needs to be protected from frost. Replacing the automatic window opener with the manual window stay is recommended!



For this assembly step you will need:

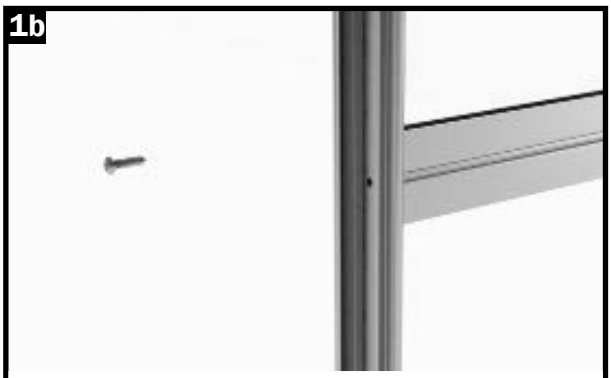
SKETCH	PART. NO.	DESIGNATION	LENGTH	TOPAS 2	TOPAS 3	TOPAS 4	TOPAS 5	TOPAS 6	TOPAS 7	TOPAS 8	TOPAS 9
	20-1705.1	Door frame upright	1705 mm	4	4	4	4	4	4	4	4
	11-1128.1	Door rail	1128 mm	2	2	2	2	2	2	2	2
	17-0522.1	Door profile, top	522 mm	2	2	2	2	2	2	2	2
	16-0522.1	Door profile, middle	522 mm	2	2	2	2	2	2	2	2
	18-0522.1	Door profile, bottom	522 mm	2	2	2	2	2	2	2	2
	1502-0299.1	Door rail support	299 mm	2	2	2	2	2	2	2	2
	CT510 GAR3440	Hobby door seal	3440 mm	2	2	2	2	2	2	2	2
	664555	Axle pin		4	4	4	4	4	4	4	4
	NG209	Door roller		4	4	4	4	4	4	4	4
	NG201	Door rail protection		2	2	2	2	2	2	2	2
	NG201L NG201R	Drain pipe, left Drain pipe, right		1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
	664753	Tapping screws, 4.2x22 mm		12	12	12	12	12	12	12	12
	690509	M6x12 mm screw		2	2	2	2	2	2	2	2
	690547	M6 nut		6	6	6	6	6	6	6	6
		Twin-wall sheet for door, 525x809 mm		4	4	4	4	4	4	4	4

Step 10 – Assembling the door casements

1a

Pick up the door profile on the side, the door rail and one 4.2x22 mm tapping screw.

1b

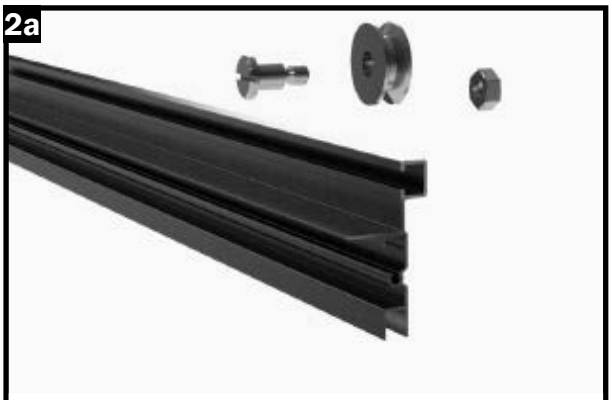


Position the door rail on the door profile laterally so that the punched-out centre hole is exactly aligned with the screw cone of the door rail.

1c

Screw the side door profile tightly onto the door rail using the 4.2x22 mm tapping screw.

2a



Pick up the door roller profile, two axle pins, two door rollers and two M6 nuts.

2b

Insert the nut into the screw channel of the door roller profile. Fix the axle pin onto the door roller. Screw the axle pin to the nut. **We recommend positioning the door roller approximately 30 mm from the end of the door roller profile.** Repeat the procedure on the second side of the door roller profile.

2c

Pick up the prepared door roller profile and a 4.2x22 mm tapping screw for assembly on the side door profile.

Position the door roller profile on the side door profile so that the upper punched-out hole is exactly aligned with the screw cone of the door roller profile.

Screw the door roller profile tightly onto the side door profile using the 4.2x22 mm tapping screw.

3a

Pick up the lower door roller profile and a 4.2x22 mm tapping screw for assembly on the side door profile.

3b

Position the lower door roller profile on the side door profile so that the punched-out hole is exactly aligned with the screw cone of the lower door roller profile.

3c

Screw the lower door roller profile tightly onto the side door profile using the 4.2x22 tapping screw.

Pick up the two twin-wall sheets for the door.
Please pay attention to which side belongs on the outside!

Slide the two door panels into the previously screwed on door profile.
It is best to lay the door flat on the floor for this.

4a

Pick up the second side door profile and place it next to the prepared door casement.

4b

Position the side door profile so that the punched-out centre hole is exactly aligned with the screw cone of the door rail.

4c

Screw the side door profile tightly onto the door rail using the 4.2x22 mm tapping screw.

Step 10 – Assembling the door casements

5a

Pick up a 4.2x22 mm tapping screw.

5b

Screw the side door profile tightly onto the door roller profile.

5a

Pick up a 4.2x22 mm tapping screw.

5b

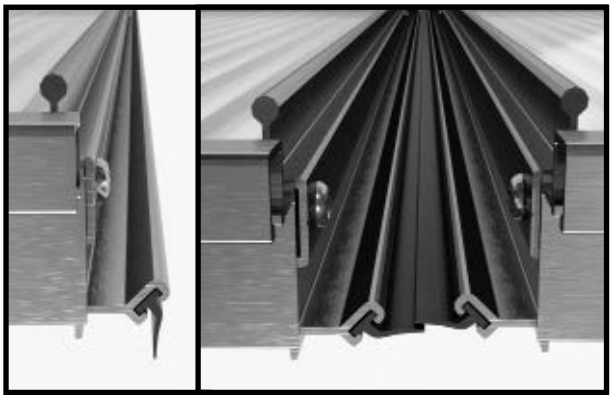
Screw the side door profile tightly onto the bottom floor profile using the 4.2x22 mm tapping screw.

Inserting the door seal

Note:

The door seal is inserted into the door frame profiles pointing outwards in such a way that it points in the direction of the greenhouse. This covers the gap between the door casement and the door frame profile.

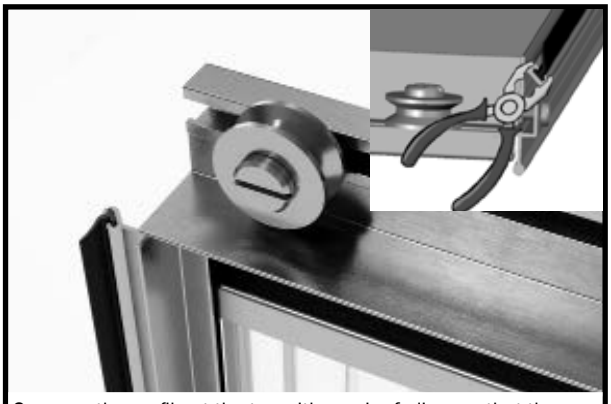
At the point where the two door casements meet in the middle, the door seal is turned 90 degrees so that the door seal points in the direction of the second door casement.



Detail of the door seal side

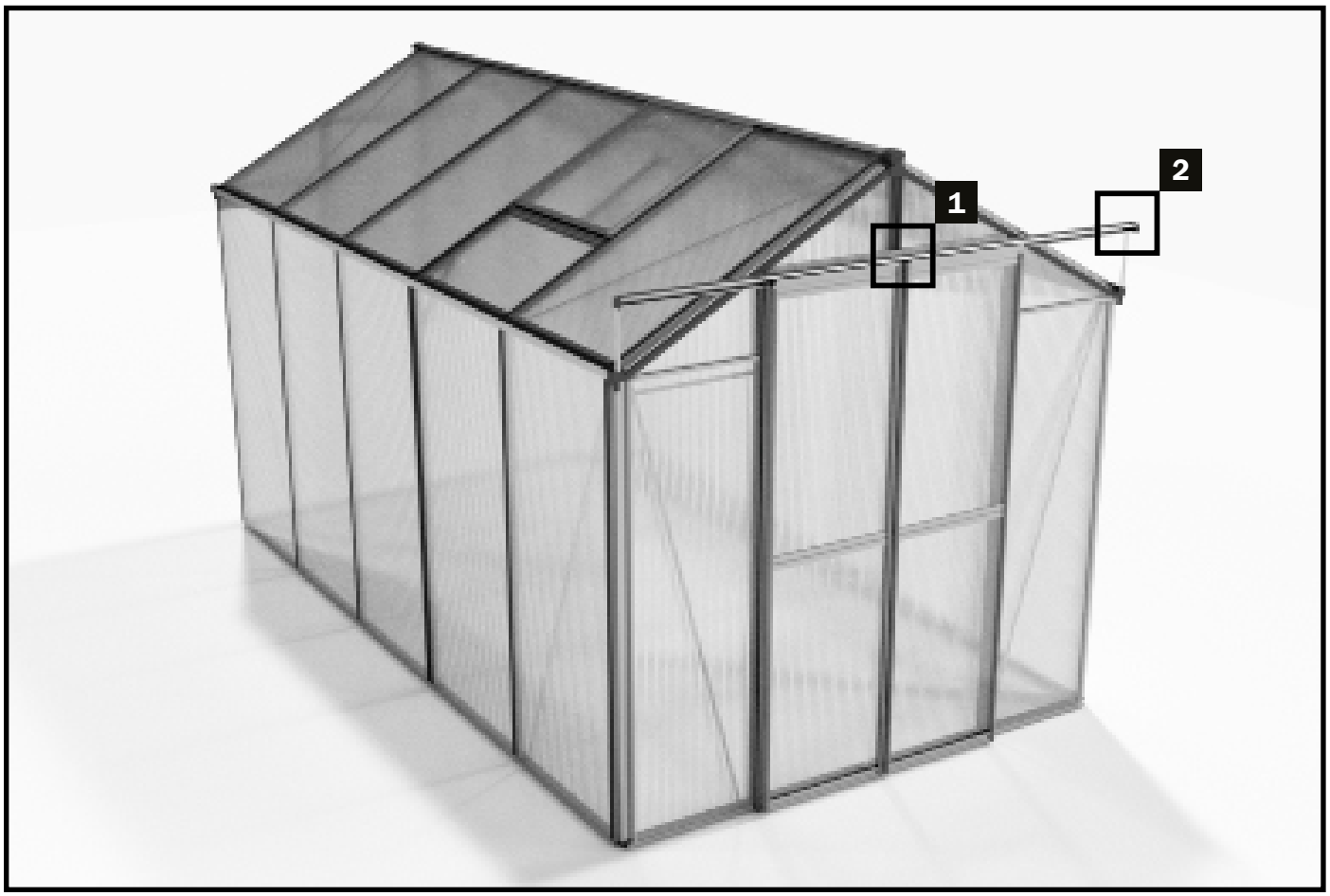
Detail of the door seal, centre

Cut the door seal to the length of the side door profile and insert it into the groove provided for this purpose.

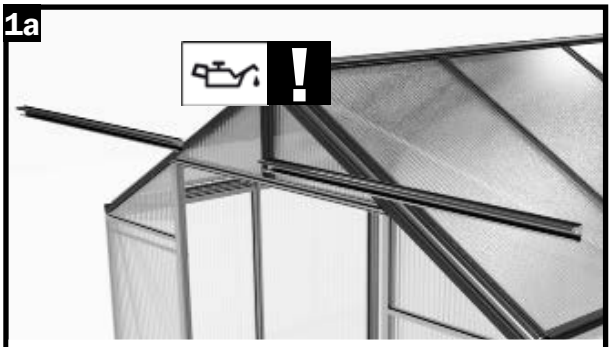


Squeeze the profile at the top with a pair of pliers so that the door seal is prevented from sliding!

Step 11 – Inserting the door casements

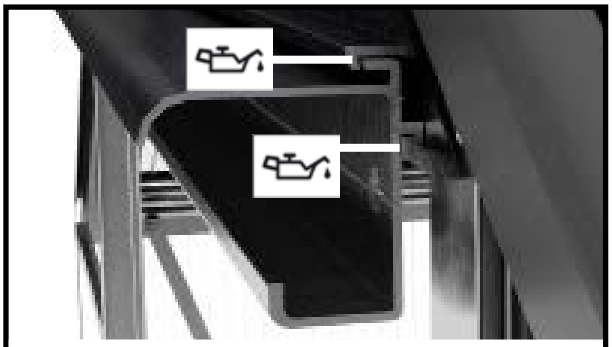


1a



Pick up the two door rails.

ATTENTION: Before inserting them from the side into the cross strut, use some oil (not included in the delivery contents) **to avoid jamming the profiles!**

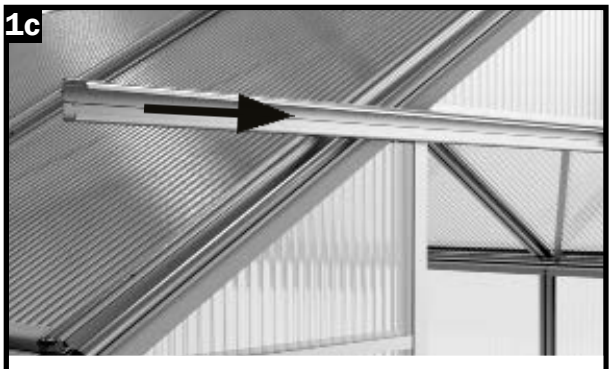


Insert the first door rail according to the cross-section shown into the cross profile.
Please use some oil at the marked points to make the insertion smooth!

1b

Insert the door rail into the cross profile up to the middle of the door opening.

1c



Now insert the second door rail into the cross strut. Align the parts so that the two door rails meet exactly in the middle.

Step 11 – Inserting the door casements

2a

Pick up a right and left drain pipe respectively.

2b

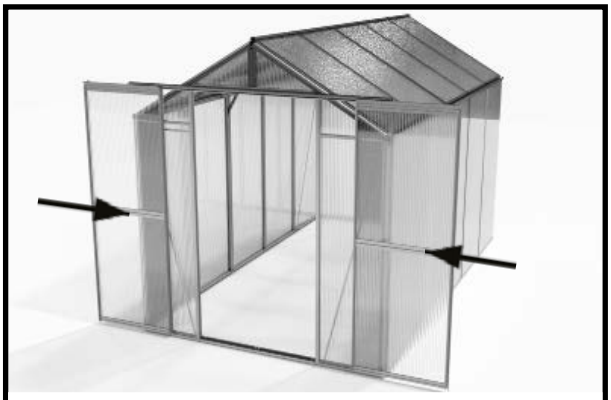
Insert the drain pipe into the rain gutter and push it into the rain gutter until it stops.

2c

Pick up the two supports for the door rail.

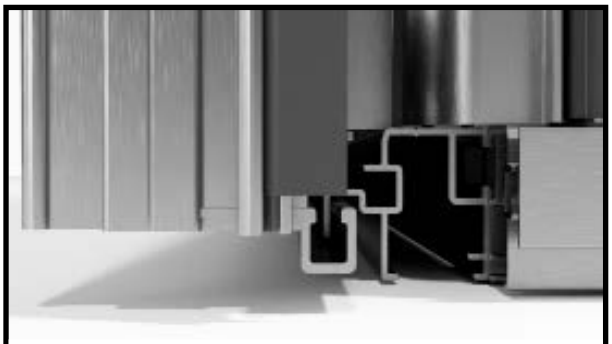
2d

Insert the door supports left and right into the drain pipe bracket provided for this purpose.



Pick up the two prepared door casements – these are now inserted in the front wall.

Insert the door casements into the greenhouse from the left and right. Make sure that the door rollers are suspended in the door rail at the top according to the cross-section shown.



Also make sure that the door casement is hung on the underside in the bracket provided on the floor profile. This prevents the door casement from tilting away from the greenhouse at the bottom.

2e

For each side of the door rail, use a door rail guard, an M6x12 screw and an M6 nut.

2f

Fit the door rail guard onto the door rail profile.

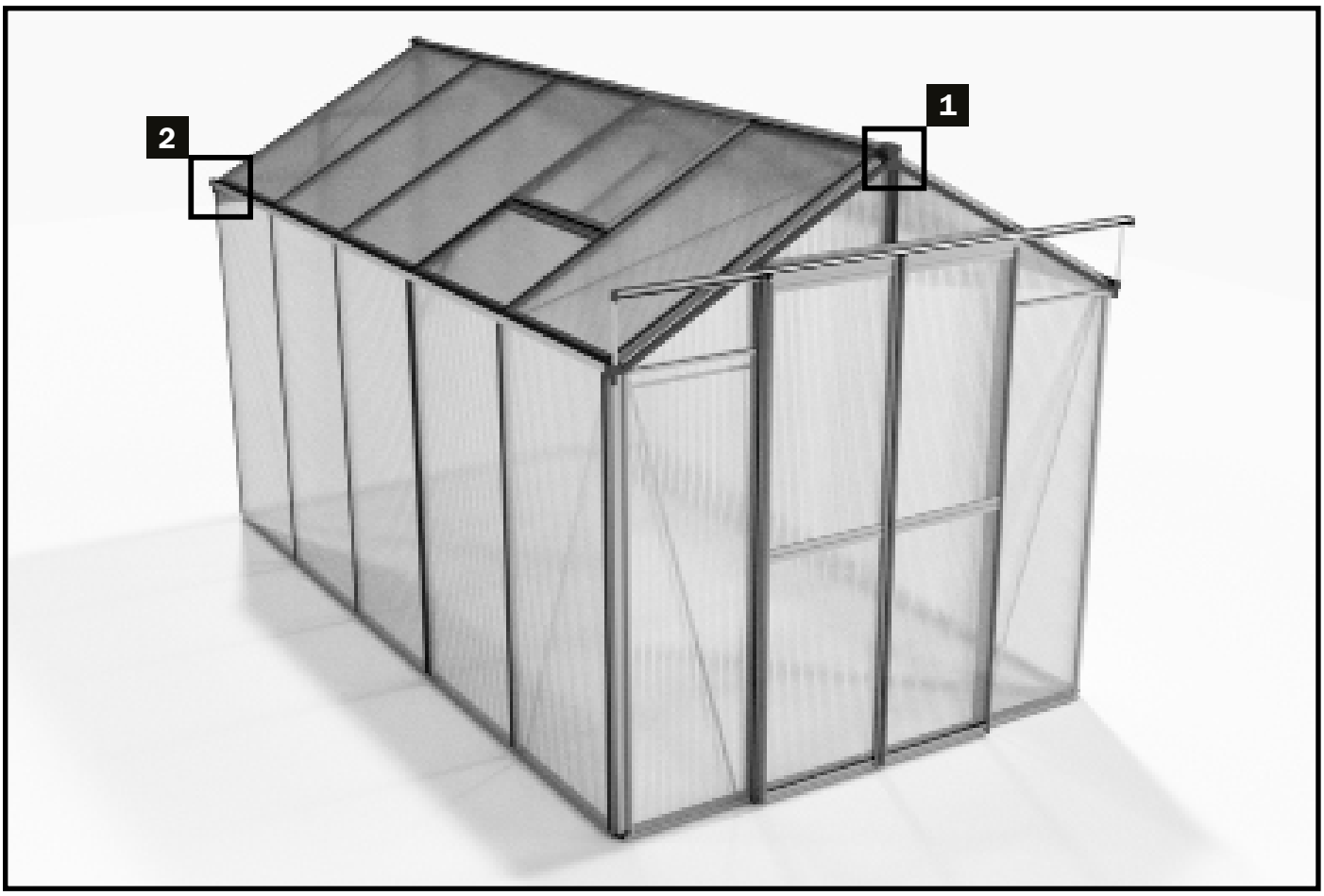
2g

Insert the M6x12 mm screw from behind through the hole in the door rail and door rail guard.

2h

Screw the door rail guard, the door rail and the support tightly together with an M6 nut.

Step 12 – Final work



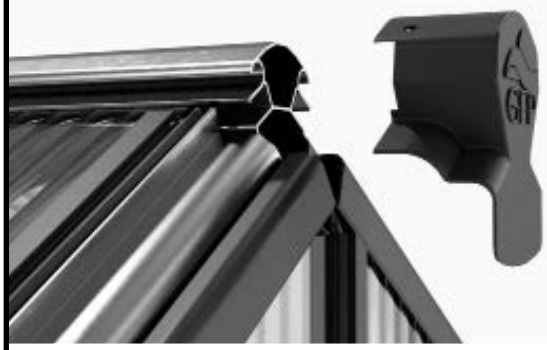
For this assembly step you will need:

SKETCH	PART. NO.	DESIGNATION	LENGTH	TOPAS 2	TOPAS 3	TOPAS 4	TOPAS 5	TOPAS 6	TOPAS 7	TOPAS 8	TOPAS 9
	NG204	Ridge covering		2	2	2	2	2	2	2	2
	NG202L	Drain pipe, left		1	1	1	1	1	1	1	1
	NG202R	Drain pipe, right		1	1	1	1	1	1	1	1
		Drilling screw, 3.9x13		4	4	4	4	4	4	4	4

Final work

Finally the ridge cap covers and the left and right rear wall drain pipes need to be attached.

1a



Pick up one ridge cover for the front of the greenhouse and one for the rear side.

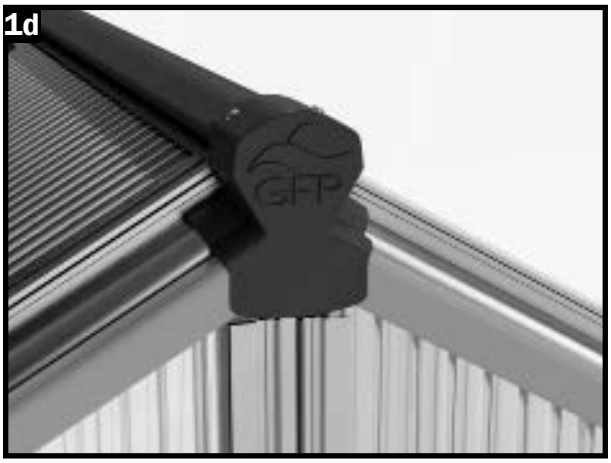
1b

Push the ridge cover onto the ridge profile.

1c

Screw the ridge cover onto the ridge profile using two 3.9x13 mm screws.

1d



2a

Take a drain pipe left and right for the rear side of the greenhouse.

2b

Insert the drain pipe left and right into the rain gutter until it stops.

You‘re finished!

Congratulations!

We hope you enjoy your new plant paradise!

Final note:

Please do not forget to check and retighten all screw connections after completing the assembly!

Please repeat this process again after about two weeks!