



 **Janssens**
AluSystems



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877-760-8500

customerservice@exaco.com

One Kit - TWO OPTIONS!
Ground mount or place on
15.75" (40cm) high stem wall

Junior Victorian Ground/Wall Assembly Manual



VERSION 2023.1 Exaco Edits 01.01.2024



*Assembly Videos can be found by scanning
the code to the left with your smartphone.*

Or find the link to our YouTube page at
www.exaco.com.

Go to the Victorian Greenhouse Playlist for all videos.

[HTTPS://JANSSENS-ALUSYSTEMS.BE/EN/DOWNLOADS](https://janssens-alusystems.be/en/downloads)



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Thank you for purchasing a Janssens' Junior Victorian Greenhouse, imported and distributed in North America by Exaco in Austin, TX. Exaco will provide all the North American based customer support for you greenhouse. Please feel free to reach to Exaco customer service with any questions you may have during assembly!

Questions? Need Assembly Support?

Please call Exaco at 877-760-8500 or email customerservice@exaco.com.

Introduction

In this manual, you will find the assembly instructions for all basic/standard-model greenhouses. However, this manual also contains pages which apply to optional accessories that may not be included with your kit. Victorian greenhouse "kits" vary by retailer. Some retailers may bundle additional accessories with their greenhouses - please check your order closely so you understand which accessories your greenhouse includes before building. It is also very helpful to plan out where each of these additional accessories will go to determine if you need to insert bolts/hardware during the build.

This greenhouse is designed for cultivation of plants/flowers. Therefore leakage, water drops and condensation inside the building are allowed. The building may only be entered by competent persons during cultivation or maintenance. Painted aluminum profiles/extrusions are powder-coated for a durable finish. The rubber strips have been treated with oil/silicone on the interior to facilitate the assembly. The building should be mounted on a solid concrete foundation deep enough to get a solid and frost-free ground. Anchoring of the foundation is vital and should be checked periodically. During winter, the roof will need to be cleared of snow or supported in a suitable way (see additional notes in "Maintenance" section). The greenhouse should be built in a location protected from strong winds. Protective gear (such as gloves) should be used during assembly in order to avoid injuries. One should at all times pay attention to the local building regulations.

This Junior Victorian greenhouse has been engineered and manufactured in Belgium using the metric system. We strongly recommend having a metric or combination tape measure on hand during assembly. We have converted and added inches to the manual when feasible – however for the most accurate and precise measurements some do still remain in metric. Conversion of metric to inches results in unusual fractional increments or decimals that become difficult to measure on a standard US customary ruler/tape measure. Using the metric system keeps your measurements more precise. If you prefer to work only in inches, you may use a converter tool available in app stores for smart phones.

Basic Assembly Order of Greenhouse

- Preparing your site – must be level and accommodate anchoring of the structure (see section on "Foundation and Anchoring")
- Sorting of the profiles/extrusions according to the model/size of greenhouse. The aluminum profiles (extrusions) are identified by their cross-section and length. It is helpful to have a metric or combination tape measure for this.
- Assembly of the complete aluminum framework

- Leveling of the construction using a level
- Anchoring/securing of the greenhouse to the ground
- Glazing installation

Required/Recommend Tools

- Metric or Combination Measuring Tape (highly recommended)
- Socket wrench or spanner - 10mm (it is helpful to have multiple)
- Needlenose or other pliers (helpful when installing corner posts)
- Level
- Screwdrivers (Phillips and Flathead)
- Drill + bits
- Impact driver and 1/2" drill bit (useful to notch channel to insert missed bolts)
- Scissors (to cut the rubber)
- Stable Ladder at least 6' tall

Safety Considerations

- Glass safety
 - Store the tall pallets of glass on firm level surfaces ONLY.
 - Keep your glass pallet dry! Moisture can cause the panes of glass to stick together and may be difficult to separate.
 - Important! Please follow glazing removal instructions on the pallet for steps to safely remove glass panes from the pallet. Contact Exaco if you have not seen these steps!
 - Tempered glass is surprisingly strong. The corners are the most vulnerable – please be aware of the corners when handling and installing glass.
 - Use a quality glass suction cup when handling glass, gloves are recommended.
- Watch your step! Be sure ladders are securely placed before climbing them.

Helpful Suggestions

- Understand which greenhouse accessories you have and where they will be placed. There will be prompts throughout the manual to insert bolts during assembly for doors, window, shelves, shade cloth, misting system, etc.
- If you forget to add a bolt where one is needed, you may create an insertion point in the channel with a 1/2" drill bit and an impact driver. If possible, do it in a place that will be covered by the piece you will be attaching. We do also have hammerhead/T bolts available for purchase that may be added later.
- Look through the entire manual and watch the assembly video to help you prepare and understand the greenhouse assembly process.
- You may start with assembly of the doors and roof windows to help create familiarity with the materials and construction process and gives a head start when it comes to assembly time.
- **The stainless-steel hardware included with your greenhouse is preferred for damp greenhouse settings. This high-quality metal is malleable however, and the heads of the screws can be stripped or break if proper precautions are not taken. Set your driver (impact driver is preferred) to a low setting and hand tighten the screw at the end to avoid snapping the screw head.**

Please thoroughly read the email that was sent to you from Exaco customer service for additional addendums to the manual and other important information.



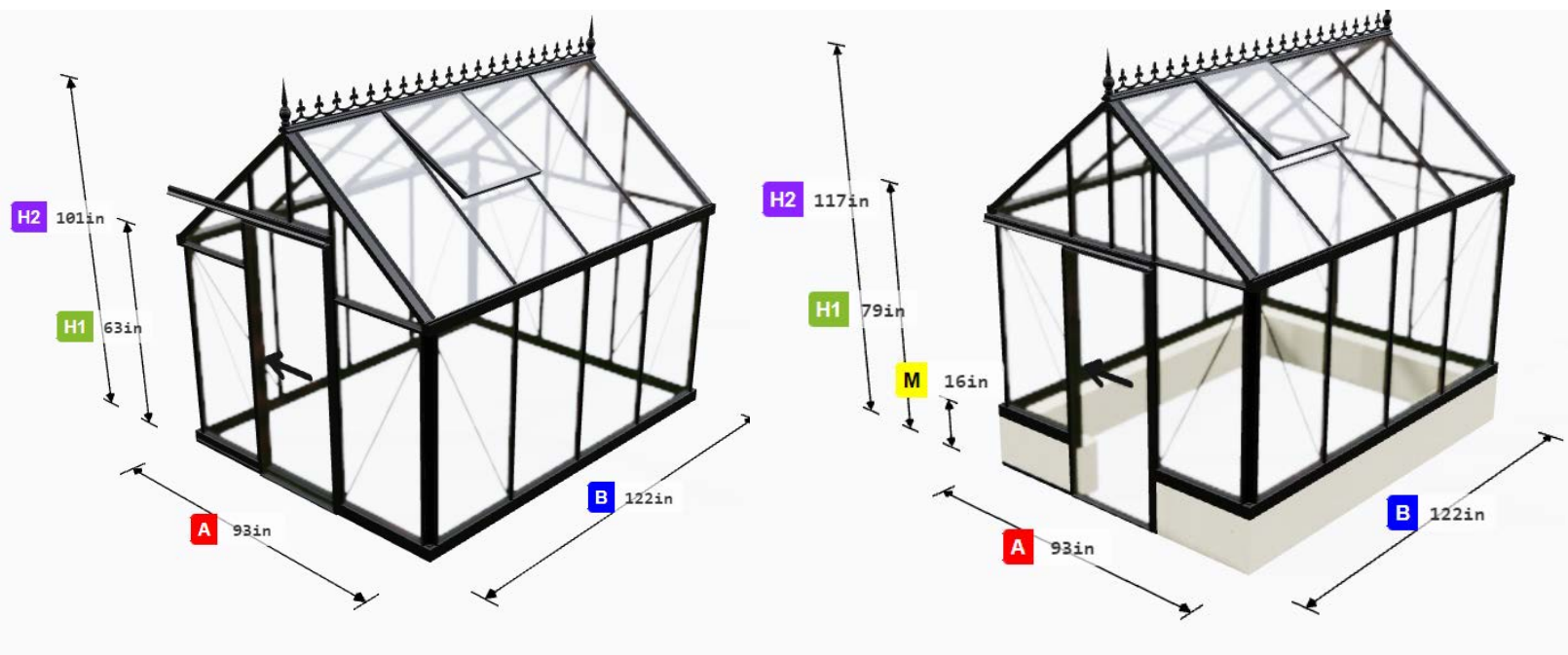
Refer to the Exaco YouTube Playlist for the Victorian Greenhouse for animated assembly videos as well as specific installation videos regarding your greenhouse. This playlist is also accessible via the QR code to the left.

Questions? Need Assembly Support?
Please call Exaco at 877-760-8500 or email
customerservice@exaco.com.



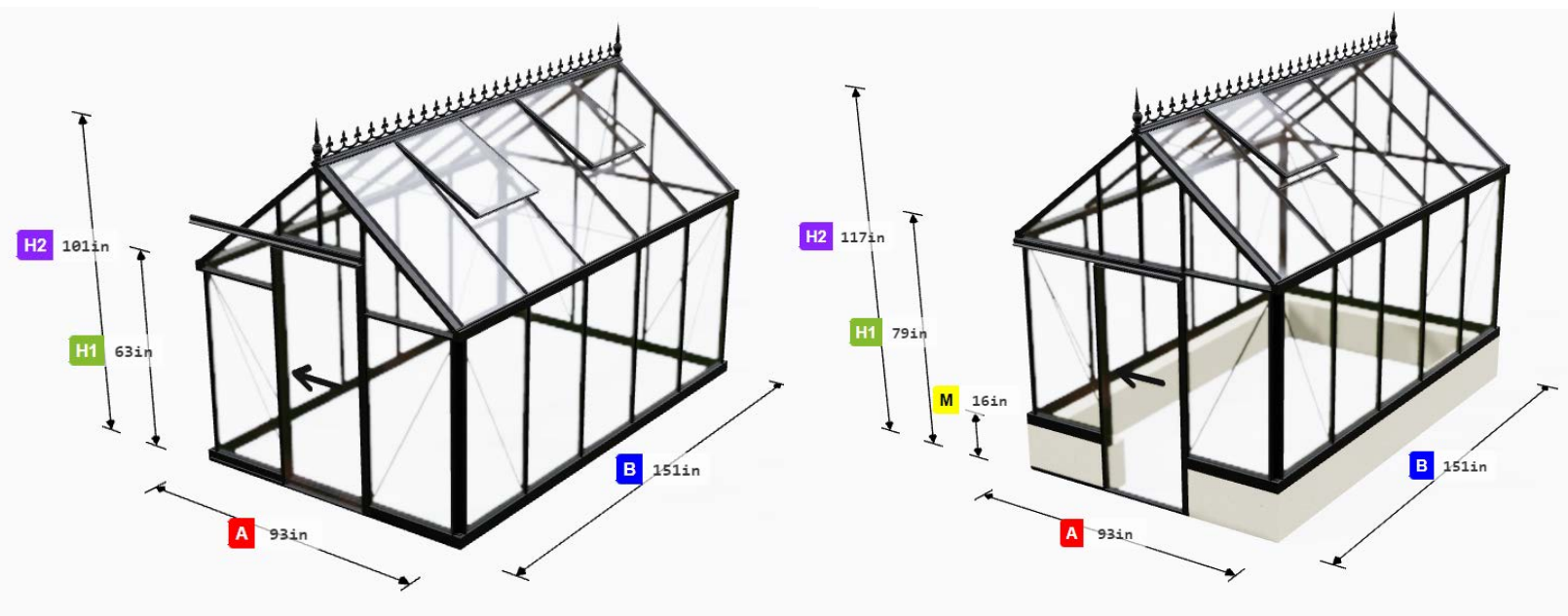
Junior Victorian 23 (7'9" x 10'2") - includes the following: foundation frame/ base, single sliding door, and one roof vent with automatic openers.

***Please note that beginning spring of 2023, the Junior Victorian Greenhouse Kit will include additional parts and glass that will allow you to place this kit on a 15.75" (40cm) high stem wall (see cover illustration).*



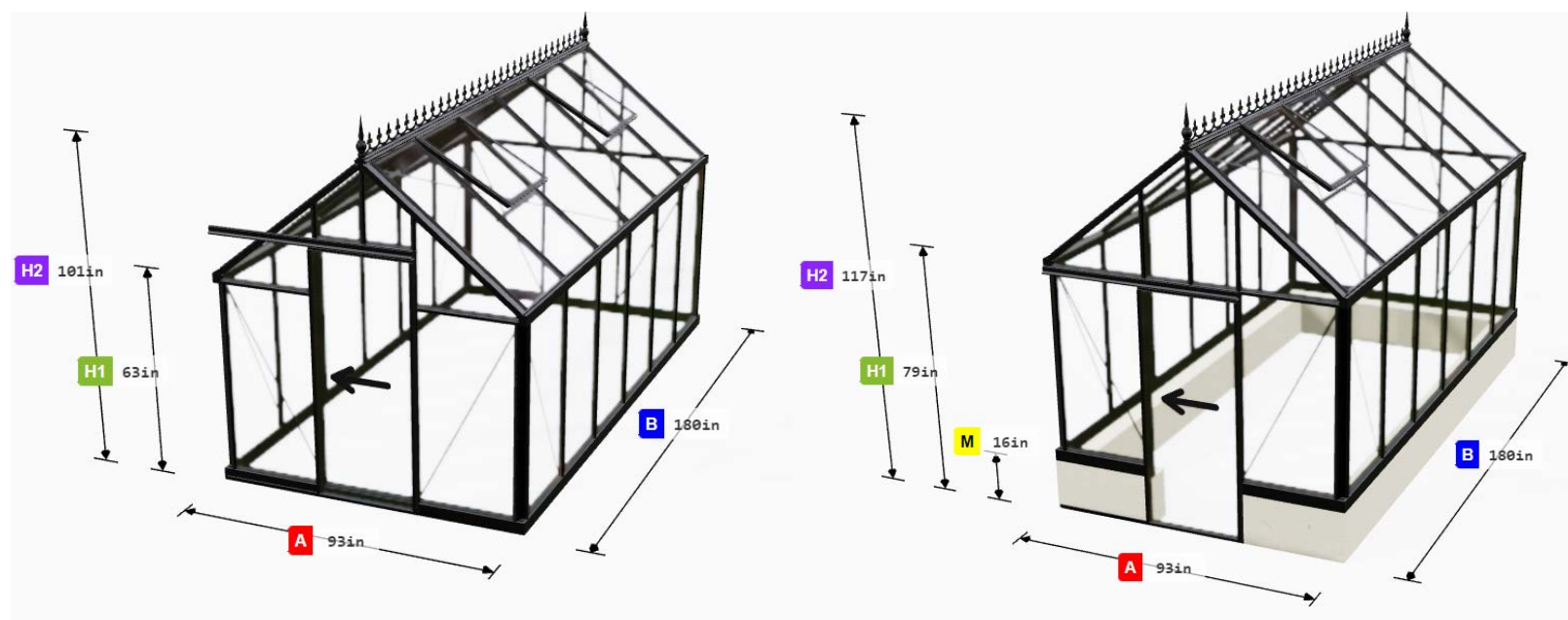
Junior Victorian 24 (7'9" x 12'7") - includes the following: foundation frame/ base, single sliding door, and two roof vents with automatic openers.

***Please note that beginning spring of 2023, the Junior Victorian Greenhouse Kit will include additional parts and glass that will allow you to place this kit on a 15.75" (40cm) high stem wall (see cover illustration).*



Junior Victorian 25 (7'9" x 15') - includes the following: foundation frame/base, single sliding door, and two roof vents with automatic openers.

***Please note that beginning spring of 2023, the Junior Victorian Greenhouse Kit will include additional parts and glass that will allow you to place this kit on a 15.75" (40cm) high stem wall (see cover illustration).*



Door Options:

- **Sliding Door:** The sliding door of the greenhouse hang/slide along the outside of the greenhouse and feature brush weatherstripping. A keyed lock attaches at the bottom of the door. For standard kits, the sliding door threshold will be the 4 ½" high base frame unless a low threshold kit (see below) is purchased. If you are building on a stem wall - please note special considerations for sliding doors on stem walls before building your stem wall.
- **Low Threshold Kits:** Standard greenhouse sliding doors will have the 4 ½" base frame as the threshold for the doorway. The upgrade to a low threshold kit requires cutting the base frame at the doorway to allow installation of a 1" high threshold to secure the sliding door guide and make walking in and out of the greenhouse easier. The premium low threshold kit now includes a full 4 sided frame for the door opening with lock at a more comfortable height.
- **Hinged Door:** This is a handsome upgrade, but is significantly more challenging. We recommend installation by a highly skilled handyman. The hinged door is time-consuming, requires adjustments, and special tools (such as a grinder) may be needed. The door is inset into the frame of the greenhouse and is further weatherproofed with rubber gaskets. The door features its own door jamb including low threshold and high-quality adjustable hinges for easier hanging. A traditional handle with a keyed lock will keep your greenhouse secure. A hinged door can be easier to work with if the greenhouse is placed on a stem wall. It is preferable to order a hinged door with the greenhouse as the hinged doors must be sent via freight truck and shipping costs can be prohibitive if shipped at a later date.

Windows

The roof vents allow hot air up at the ridge to escape. The roof vents are usually staggered and some place on both sides of the ridge beam. Occasionally, if there is prevailing wind from one direction, more windows may be placed on that side. We recommend the manual spindle opener be used for windows facing strong gusts of wind. The windows cannot be placed side by side. There are a variety of openers available for roof vent windows.

- **Roof Vent Openers**
 - Manual Stick openers - these will be packaged in every roof window kit. They are entry level openers that work on a peg/notch system. Not recommended for daily use but may be used to "lock down" the window if needed (auto openers must be disengaged or your piston will burst).
 - Manual Spindle openers - a high-quality stainless steel threaded rod to securely crank the window to desired open position with use of a removable long handle. These are heavy-duty and will hold up well to strong winds if needed.
 - Automatic Opener (Ventomax) - this opener utilizes a piston that is filled with oil that expands between 68 to 70 degrees. The oil pushes out the rod of the piston to open the window. When the piston is engaged, there is no manual control of the window. If there is rain when the temperature is above 68 in the greenhouse, it is likely that the roof vent will be open and rain will come in. During the cold months the pistons may be disengaged if heating the greenhouse.
- **Louver/Jalousie Side Wall Window (NOT STANDARD WITH A JUNIOR GREENHOUSE)**

- Placed in a sidewall bay, often opposite the door for a cross breeze. If you order a louvered window for your Junior greenhouse, we send a lexan panel for the space underneath as it is not a standard glass size for us.
- Comes with a manual opener installed or an auto opener (Sesam Liberty) may be ordered.
- If you are installing an exhaust fan, the louvered window with auto opener may act as your intake vent.
- **Push Out/Top Hang Side Wall Window** - optional upgrade (would ship with a lexan panel for underneath). It hangs from a hinge at the top and the bottom pushes out. An auto opener may be used.

Optional Accessories

There are a variety of optional accessories available, some of which are listed below. Some retailers may bundle a shade cloth/shelves with their greenhouse kits.

- Shade cloth - interior shade curtains hang from the gutters and ridge beam. Sliders installed in these channels allow the curtains to be pulled open/closed.
- Shelves
 - Seed tray/Seedbed – For Junior greenhouses, these fit along the 7’8” wall. The seed tray is 20” wide and has a 4” planting depth with a white polycarbonate bottom to allow for drainage. It is best to order at the same time as the greenhouse as it has to ship via freight truck due to the length.
 - Top Shelf - is 4” wide and it installs along the 7’8” wall of the greenhouse, either above the seed tray or on its own at your preferred height. It is best to order at the same time as the greenhouse as it has to ship via freight truck due to the length.
 - Slat shelves - extremely flexible in terms of height, usage, and all around placement. They are 59” long (across two sections of glass) and may be run end to end for a long stretch of shelving. They may also be centered across 3 panes of glass if desired. Slat design works well for holding pots/planters or it may be used for a work surface. These shelves may be shipped via FedEx or UPS.
 - 2 Slat Shelves - 9” wide x 59” long
 - 5 Slat Shelves - 21” wide x 59” long
- Fly Screens are a brand new addition from Janssens
 - Roof Window Fly Screen - easily installs into roof vent opening
 - Louver Window Fly Screen - clips onto outside of louvered window
 - Door Fly Screen – Is not compatible with Junior greenhouses
- Ventilation - An exhaust fan may be installed in the gable of the greenhouse to blow out the hottest air. Replace a glass pane with a lexan panel into which you can mount the fan (polycarbonate greenhouse panels may be cut to accommodate the fan). Many exhaust fans will use an external thermostat to control at what temperature it turns on and off. Place an exhaust fan opposite your louver window to create a cross breeze. For the most effective cross breeze, it is often recommended to close window vents to force airflow through your louver window.
- Heaters - see below “Heating the Greenhouse”

Placement of the Greenhouse

The placement of the greenhouse varies by intended usage, climate, location, and space available. There is a wealth of information to be found online on this subject, here are some considerations:

- Will your greenhouse be in full sun or get afternoon shade? Glass greenhouses do what they are intended to do - heat up quickly on sunny days. Great for the winter, but depending on your climate, it can be a challenge during summer months. Think about what you will be growing as well as the seasonal usage of your new greenhouse to determine appropriate sun exposure. It may help to watch the seasonal variations of sun angles in your yard to determine the placement.
- Depending on what you are growing and where you are located, you may wish to orient your greenhouse east/west or north/south - many garden bloggers have weighed in on this and research may help you consider the options. In many areas of the US, we do get plenty of hours of sunlight. Some users end up placing the greenhouse based on layout/space available, aesthetics and convenience.
- The site must be level. If it is not, you will need to prepare the area to provide a firm and level surface to construct your greenhouse. This may include building a retaining wall or placing your greenhouse on a stem wall - or just leveling out the site. Consider rainwater flow in your yard if you are in a hilly area.

Foundation and Anchoring

All greenhouses must be securely anchored. All Victorian greenhouses include corner brackets attached to the foundation/base frame that extend an additional 12" below ground level. The Junior Orangerie will include 8 corner anchors for every corner of the greenhouse. If you are in a very high wind area or are trying to meet the structural specifications for a permit - you may wish to purchase additional corner anchor posts (PRO210) for use at the vertical members.

The manufacturer recommends an 8" wide concrete strip foundation that extends down to the frostline in your area. Please consult your local building codes for this information. It is recommended to leave a 4" diameter hole at the corner for the anchors to be embedded in concrete after the greenhouse frame is assembled and it is confirmed to be level and square.

Alternatively, you may also choose to anchor the greenhouse by trimming the corner anchors off at ground level, cutting them in sections to be used as L brackets to secure the greenhouse frame to your anchoring surface with the appropriate hardware.

Some users have chosen a variety of alternative anchoring methods based on their climate, location, soil composition, and site considerations. These include full concrete slabs, concrete footers, pier and beam constructions, and even timbers. If you are considering the use of wood in your construction, be aware that your greenhouse will likely outlast your wood. If you use pressure treated wood, it is recommended to use a barrier material between the wood and the aluminum frame. When planning your anchoring method, you should keep in mind frost line/ground heaving, wind load, greenhouse location, ground composition, weather, climate, and local building code. If you are unsure, you should consult with a local and experienced builder. Warranty coverage does not extend to damage resulting from improper anchoring of the greenhouse outside of manufacturer's recommendations (see above).

If a permit is needed in your area, we do have structural certification letters and permit sets for most of our greenhouses. They are Texas stamped. We may be able to obtain other state stamped documents, however if you need them specific to your state, we do not cover this expense. Please contact Exaco if structural documents are needed.

Flooring

The greenhouse does not include flooring material, allowing it to be customized to your needs and use. When planning your flooring, consider the intended use of the greenhouse, the plants that will be grown, drainage, heat sink benefits of the material, insulation, weed blocking, as well as aesthetics. If you use a natural flooring option - consider including a weed barrier. Here are a variety of flooring options to consider:

- Soil - this is a great option if you have fertile soil and wish to plant directly into the ground. This can be used in combination with other options below.
- Pea gravel, crushed stone, etc. - provides natural drainage and some crushed rocks help with weed control
- Pavers and bricks - A very nice looking option with natural drainage capabilities. May also be used for paths in combination with in ground planting areas.
- Wood - Looks very nice, but requires more maintenance. Keep in mind that the wood may deteriorate before the greenhouse lifespan is over.
- Full concrete slab - This can double as your anchoring surface as well. Keep in mind that greenhouses can be wet environments so texture and drainage need to be considered.
- Tiling - this can be a beautiful option as well. If your greenhouse is a functioning greenhouse, consider water drainage. Tile may get very slippery when wet.

Water and Electricity

You may choose to bring water and electricity into your greenhouse. If possible, it is recommended to plan for this ahead of time so that you can plumb/wire underneath the base frame of the greenhouse. Generally users will bring electricity under the frame at the most convenient location and then attach conduit to the frame of the greenhouse to the desired location. Custom matched spray paint is available if needed.

The irrigation/misting system (included with Royal Victorians) may be directly plumbed or attached to a hose with a hose clamp (available at garden stores). The hookup end of the irrigation pipe will be at one of the gable ends, near the ridge. It is helpful to purchase a hose timer so watering can be automated.

Ventilation and Cooling of Greenhouse

Glass greenhouses are effective at heating up quickly on summer days. If you discover your greenhouse is becoming warmer than you desire, here are some options for cooling.

- Shadecloth - Janssens makes an interior shadecloth system
- Exhaust Fan - recommended to be installed in the gable of the greenhouse to blow out the hottest air. Replace a glass pane with a lexan panel into which you can mount the fan. Many

exhaust fans will use an external thermostat to control at what temperature it turns on and off. Place the exhaust fan opposite your louver window to create a cross breeze. For the most effective cross breeze, it is often recommended to close window vents to force airflow through your louver window.

- Misting System - in dry environments, a misting system turning on at the hottest point of the day can cool a greenhouse up to 15 degrees.
- Tinting - Aftermarket tinting may be applied to the glass panes
- Whitewash - available from some greenhouse retailers, this can be washed off when the hot season is over.
- Exterior shade cloth - an exterior shade cloth, though not as beautiful, can be highly effective. An aluminet shade cloth is a metallic woven shade cloth that goes up and over the outside of the greenhouse. The metallic surface reflects the heat of the sun's rays before they get inside the greenhouse, while also providing shade.

Heating the greenhouse

Although the greenhouse heats up quickly during sunny days, you will likely find you will need to provide supplemental heat during cold winter nights and cold cloudy days.

- Heaters - electrical, propane and wood stoves have all been used. Be sure to properly vent according to manufacturer instructions. Find a BTU calculator online to determine how powerful a heater you need. This is based on a variety of factors including greenhouse material, size, location/climate, low temperatures and desired goal temperature.
- Heat Sink - The more mass you have inside your greenhouse, the more heat can be absorbed during the warm day to release at night. This can help mitigate huge temperature swings during light frost, but can also reduce your heating costs. Easy ways to add mass that can retain heat are raised beds, a large dark water tank, or organic material. There is much information online about planning/designing more in depth heat sinks in your greenhouse - including flooring choices.
- Resources on insulated floors and geothermal heat can be found on many garden blogs.

Can I Use My Greenhouse as an Additional Living Space?

- These structures are designed to be a greenhouse first and foremost. As packaged, the greenhouse is not designed to be water/air tight. Greenhouse plants do benefit from a turn of air. You will need to do some extra sealing with silicone on the roof around the glass to achieve watertightness.
- We recommend any furniture be indoor/outdoor and that fine wood furniture/electronics be avoided or sufficiently protected.
- The glass is single pane, so there is a good chance for condensation on the inside that might drip. The roof windows do have auto openers, so it is likely the roof vents will be open during a rainstorm if the temperature in the greenhouse is above 68 degrees. You can switch to all manual openers if preferred.
- On sunny days, glass greenhouses can get warm very quickly. Depending on your climate, you will likely be fighting the heat in the summer (late spring/early fall).

It has been done, but you will need to make customized adjustments such as extra sealing, climate control, window tinting and heating. Indoor/outdoor furnishings are strongly recommended. Exaco will not be held responsible for any damages.

Maintenance of Greenhouse

The following will help keep your greenhouse in tip top shape:

- **WINTER/SNOW/ICE CONSIDERATIONS:**
 - The roof will need to be cleared of snow, this removes weight from the roof and also allows the sun to shine in and heat your greenhouse
 - Heating your greenhouse may also help some of the snow melt/slide off to assist in keeping the roof clear. If you are heating the greenhouse, you may wish to disengage your pistons so the roof vents do not open.
 - If you are expecting heavy snowfall that you will not be able to clear in a timely manner, we recommend bracing your ridge beam with a 2x4 in the center to help support the weight. Snow should still be cleared as soon as it is possible.
 - If you are in an area that routinely gets significant snow there are some options to strengthen and support your greenhouse:
 - Install self-tapping screws in addition to the bolts where the rafters meet the ridge beam and the gutters (noted in assembly manual).
 - Purchase extra spandrels/snow supports for your greenhouse for the ridge and gutters.
 - Add a stainless steel cable with a turnbuckle connecting opposite sidewalls/spandrels to prevent the sidewalls from bowing out if there is excessive weight on the roof.
- Pistons and openers - Several times each year oil your piston rods, threading, and moving parts of your openers. You may use WD40 or even olive oil. If your pistons stop opening your windows, you likely need to oil them to loosen them up.
- Glass Maintenance
 - Cleaning Glass - use a gentle cleaner, such as Palmolive dish soap with a soft cloth. A squeegee with a long handle is helpful as well. Distilled white vinegar can be used to remove hard water spotting.
 - Replacement Glass - if you need to replace a piece of broken glass, please refer to the glass spec sheet in this manual. Replacement panes of 3/16" standard tempered safety glass should be ordered from a local glass shop. Exaco will not ship large pieces of glass, locally ordered replacement panes of standard tempered safety glass will match the original panes.
- Polycarbonate Cleaning - use a gentle cleaner, such as Palmolive dish soap with a soft cloth.

Questions? Need Assembly Support?

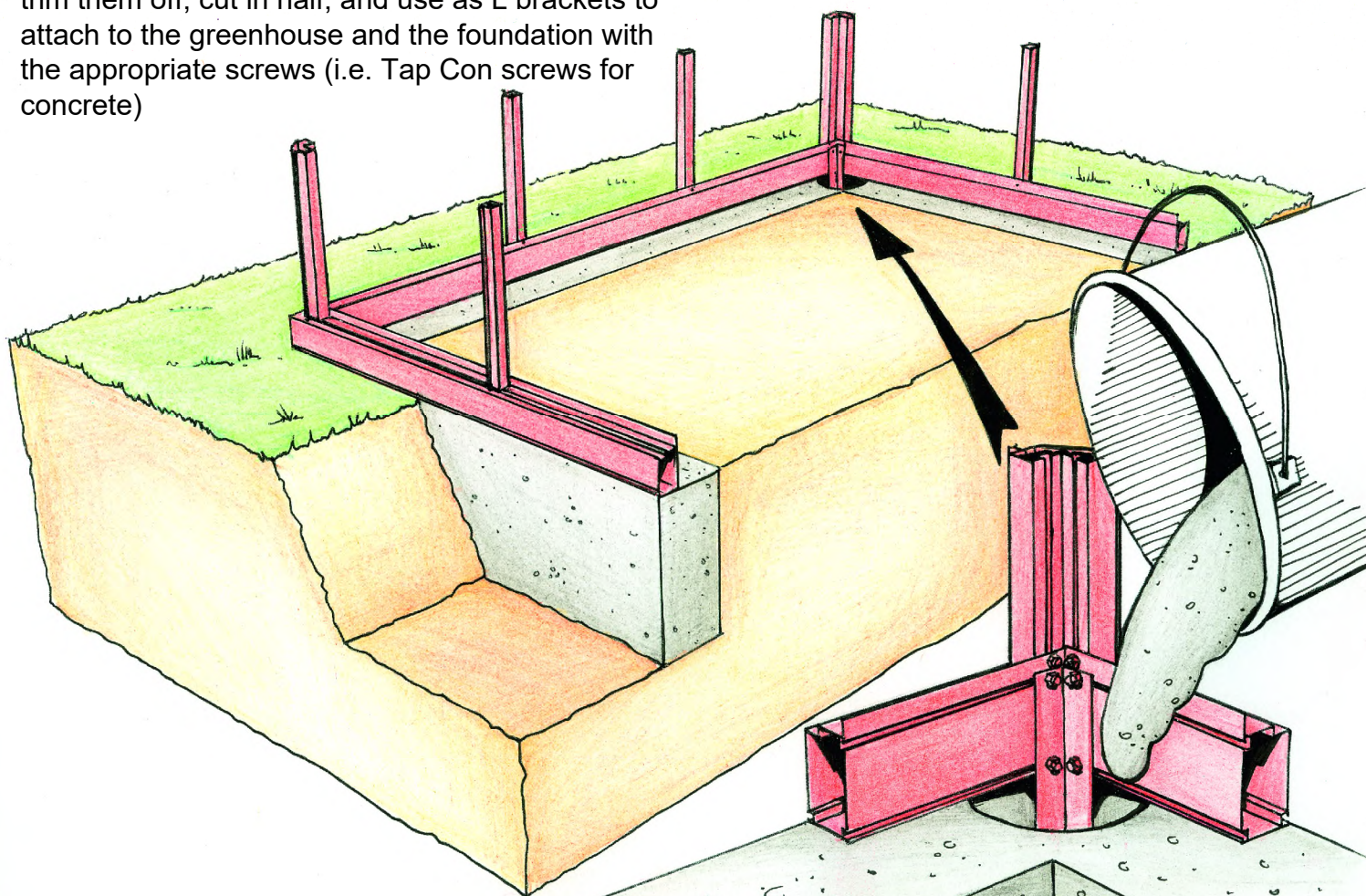
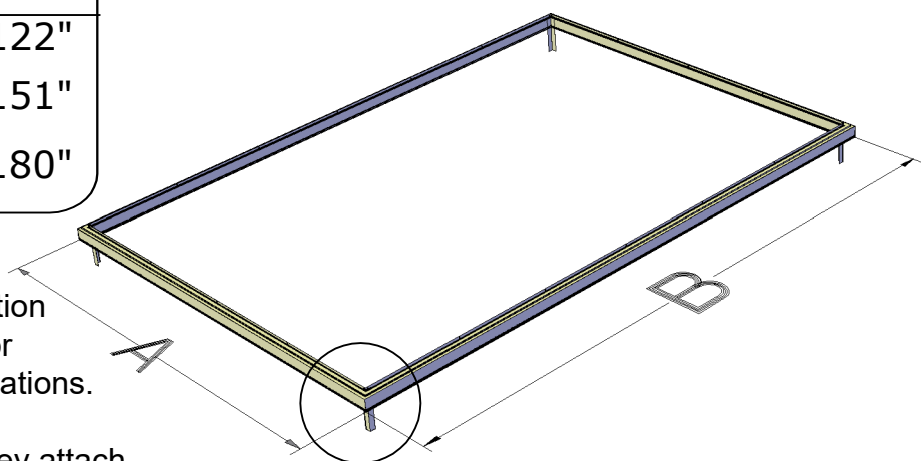
Please call Exaco at 877-760-8500 or email customerservice@exaco.com.

JUNIOR VICTORIAN - Ground Mount

A	X	B
2360mm or 93"	JVIC23-3098mm/122"	
	JVIC24-3836mm/151"	
	JVIC25-4574mm/180"	

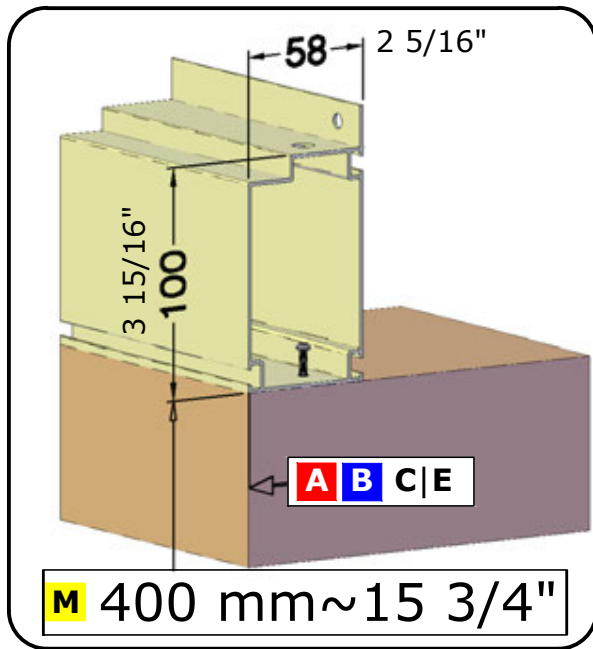
Notes:

- It is recommended to build your foundation down to the frost line in your area and/or consult a local contractor for recommendations.
- Greenhouse base frame is 2 1/4" wide
- Corner anchor posts are 1.5" x 1.5". They attach at the interior corners of the base frame. The anchor posts then extend 12" into the ground/ concrete. There will be bolts inserted at the bottom of the anchor to "catch" in the concrete.
- Do not embed the corner anchor into the concrete until the entire greenhouse is assembled, level, and square. It is recommended to leave a 5 to 6" hole in the concrete for the anchor.
- Embedding the corner anchor into concrete is the most secure method, although you may choose to trim them off, cut in half, and use as L brackets to attach to the greenhouse and the foundation with the appropriate screws (i.e. Tap Con screws for concrete)



VERY IMPORTANT!!! Do not set the corners in concrete until the entire greenhouse frame is complete, level and square. You may need some play to install the uprights.

Junior Victorian - Wall Mount



A. = 93"

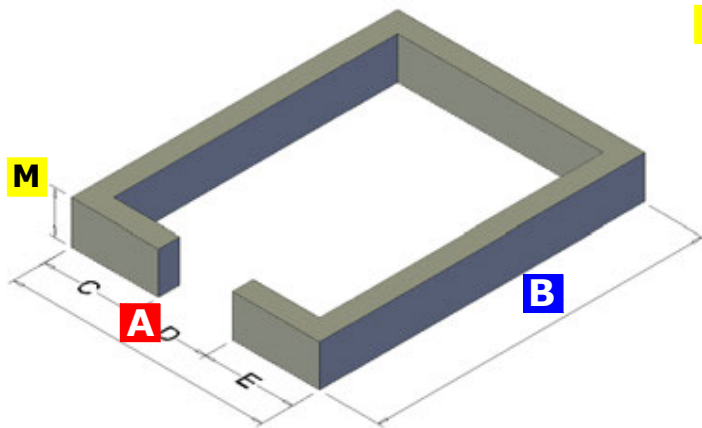
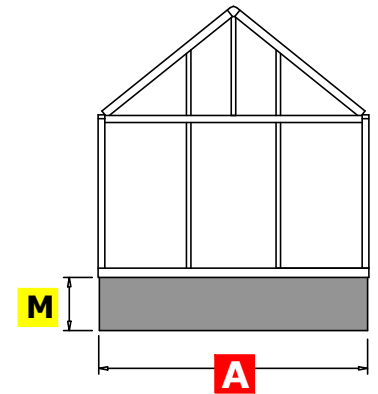
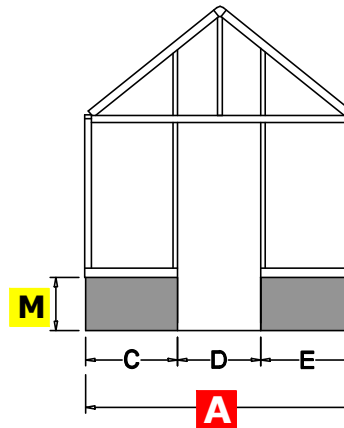
B. = 122" / 151" / 180"

C = 829mm ~ 32.6"

D = 703mm ~ $27 \frac{2}{3}"$

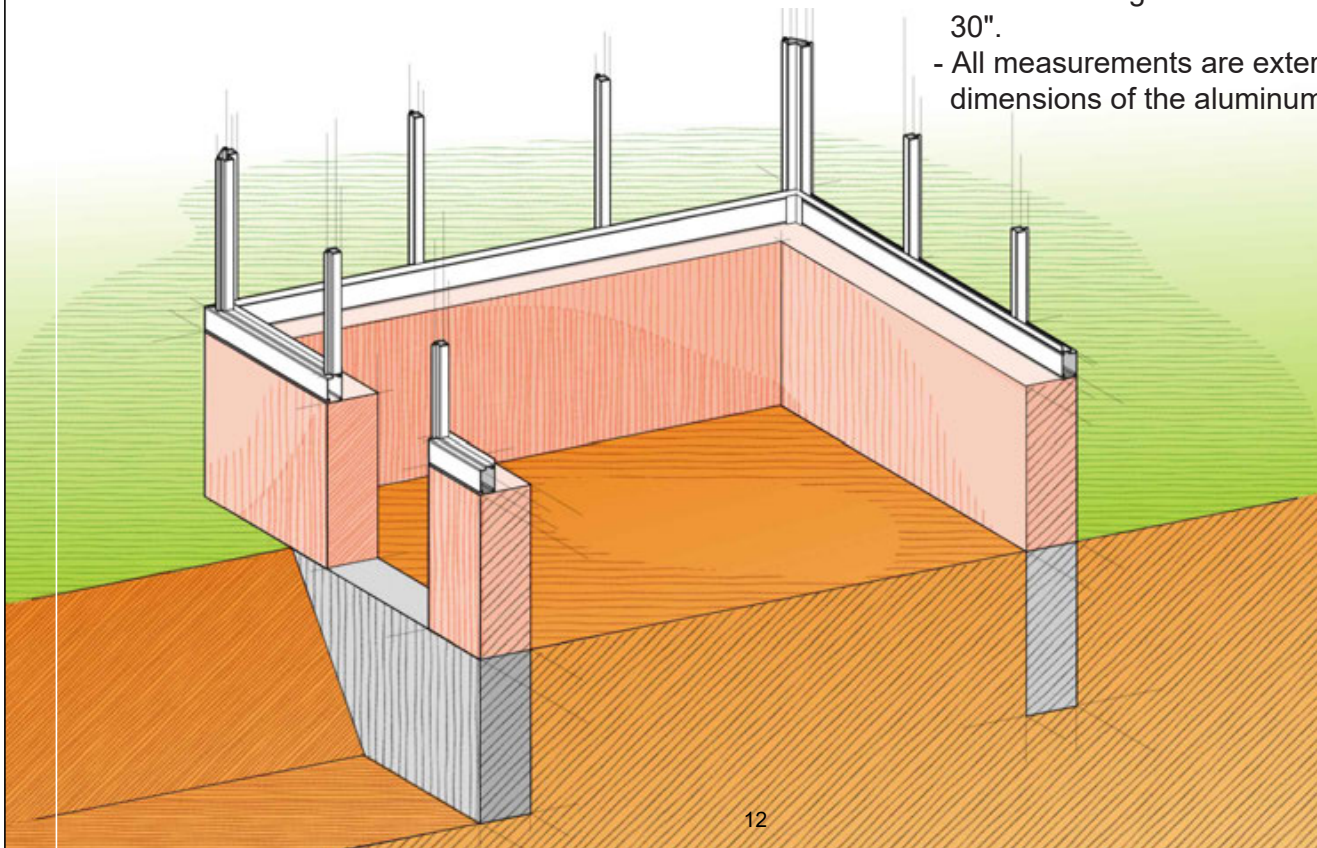
E = 829mm ~ 32.6"

!!! A = C + D + E !!!



Notes about stem walls:

- Read notes on previous and following pages to understand anchoring options, and measurements of frame for thickness of your wall.
- Your doorway may be placed on the gable end or long side.
- Stemwall height is determined by you, maximum height with standard kit is 30".
- All measurements are external dimensions of the aluminum profiles.



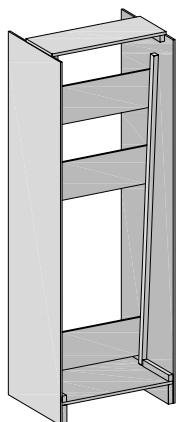
STANDING PALLET

WEIGHT:

J23	386 kg
J24	435 kg
J25	485 kg

DIMENSIONS:

800 x 900 x 2200 mm



ITEM	J23	J24	J25
DAKR_HEL (Roof window)	1 pc	2 pc	2pc
ZAKJE_H (Hardware pack)	1 pc	1 pc	1 pc
PRO6578 corner profile	1430 mm 4 pc	4 pc	4 pc
PRO6918 endbar roof	1430 mm 4 pc	4 pc	4 pc
PRO1456 glazing bar	1430 mm 14 pc	18 pc	22 pc
PRO10980 round tube Ø40	1500 mm 2 pc	2 pc	2 pc
PRO1748 rubber 12,5m/rol	4 pc	4 pc	4 pc
TRE wind bracings sides	1614 mm 8 pc	8 pc	8 pc
ZAKJE_SILICONEN (silicone/shims)	1 pc	1 pc	1 pc
ESD_183_ZS (single sliding door)	1 pc	1 pc	1 pc
ridge decoration (box)	1 pc	1+1 pc	1+1 pc

POSITION	GLAS DIMENSIONS	J23	J24	J25
door	730 x 1850 mm	1 pc	1 pc	1 pc
gables + roof	730 x 1450 mm	20 pc	23 pc	27 pc
triangle E3	361 x 520 x 290 mm (*70)	2 pc	2 pc	2 pc
triangle E1	730 x 680 x 85 mm	4 pc	4 pc	4 pc
triangle E2	361 x 910 x 690 (*70)	2 pc	2 pc	2 pc
roofwindow	730 x 825 mm	1 pc	2 pc	2 pc
underneed roofwindow	730 x 625 mm	1 pc	2 pc	2 pc

SEE NEXT PAGE FOR GLASS ILLUSTRATION /COUNT IN INCHES

Sapak_EOS contains:

(black PVC gable/ridge covers, long bolts & nuts for corner anchors, small L brackets for gable assembly (L2G))

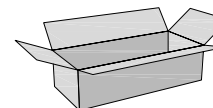
Main hardware for assembling the greenhouse will be found in the longest box - INSIDE the gutter profiles. You will need to remove the shrink wrap to find them, they will not slide out.

COLLI A JUNIOR

WEIGHT: 22 kg

DIMENSIONS:

240 x 120 x 2600 mm



PACKING LIST "EOS JUNIOR"

ITEM	J23/J24/J25
PRO6120 foundation profile	2360mm 2 pc
PRO20229 horizontal gable prof.	2244 mm 1 pc
PRO20229 horizontal gable prof.	768mm L 1 pc
PRO20229 horizontal gable prof.	768mm R 1 pc
PRO20229 horizontal gable prof.	768mm L+R 1 pc
L 40x40 GATFUND (corner anchors)	400 mm 4 pc
PRO1456 glazing bar	918 mm 1 pc
PRO1456 glazing bar	672 mm L 1 pc
PRO1456 glazing bar	672 mm R 1 pc
PRO1456 glazing bar	520 mm 1 pc
PRO1456 glazing bar	2130 mm L 1 pc
PRO1456 glazing bar	2130 mm R 1 pc
TRE wind bracings sides	2065 mm 2 pc
SAPAK_EOS	1 pc

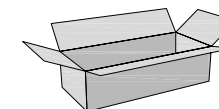
COLLI B EOS & JUNIOR

WEIGHT:

J23	30 kg
J24	35 kg
J25	40 kg

DIMENSIONS:

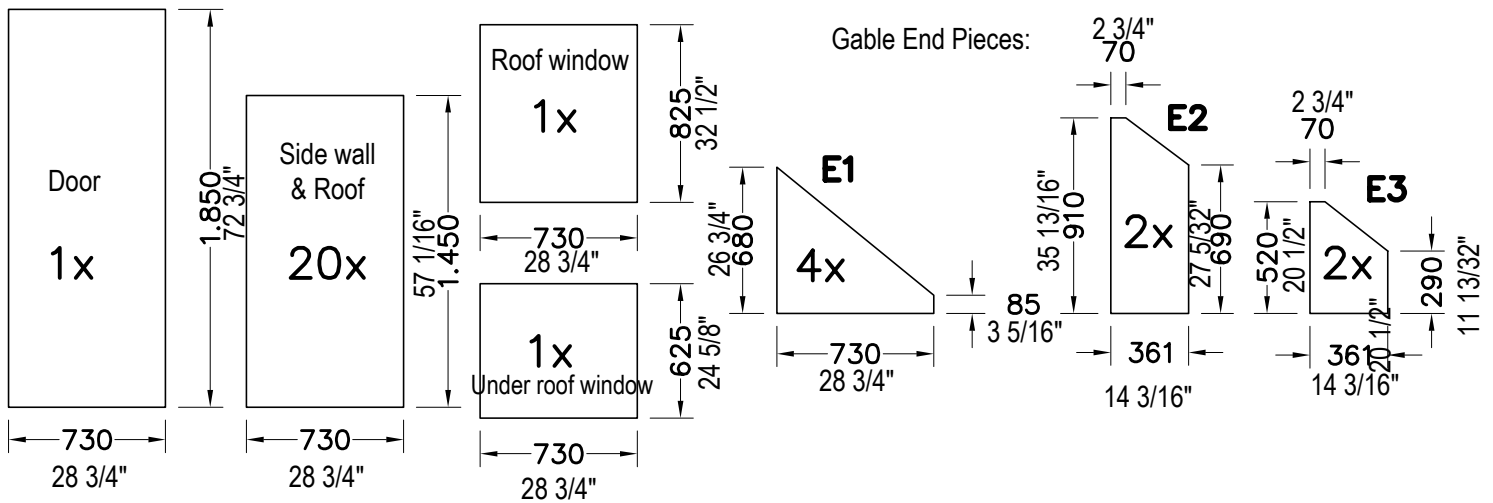
240 x 120 x 3200 mm J23
4000 mm J24
4700 mm J25



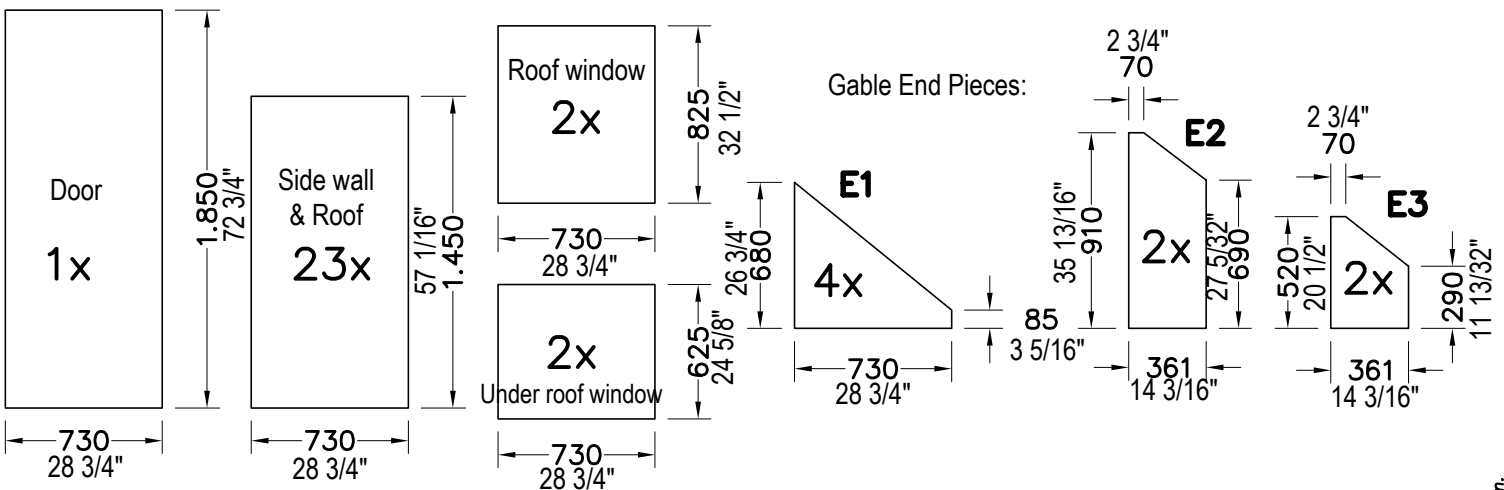
ITEM	J23	J24	J25
PRO6120 foundation profile	3098 mm 2 pc	3836 mm 2 pc	4574 mm 2 pc
PRO20779 gutter profile	3098 mm 2 pc	3836 mm 2 pc	4574 mm 2 pc
PRO40091 ridge profile	3098 mm 1 pc	3836 mm 1 pc	4574 mm 1 pc
ZAKJE_BOUT ? (12mm long bolts/nuts/caps -inside gutter profiles under shrink wrap)	3 pc	3 pc	3 pc

GLASS-SET EOS JUNIOR 23 236x310

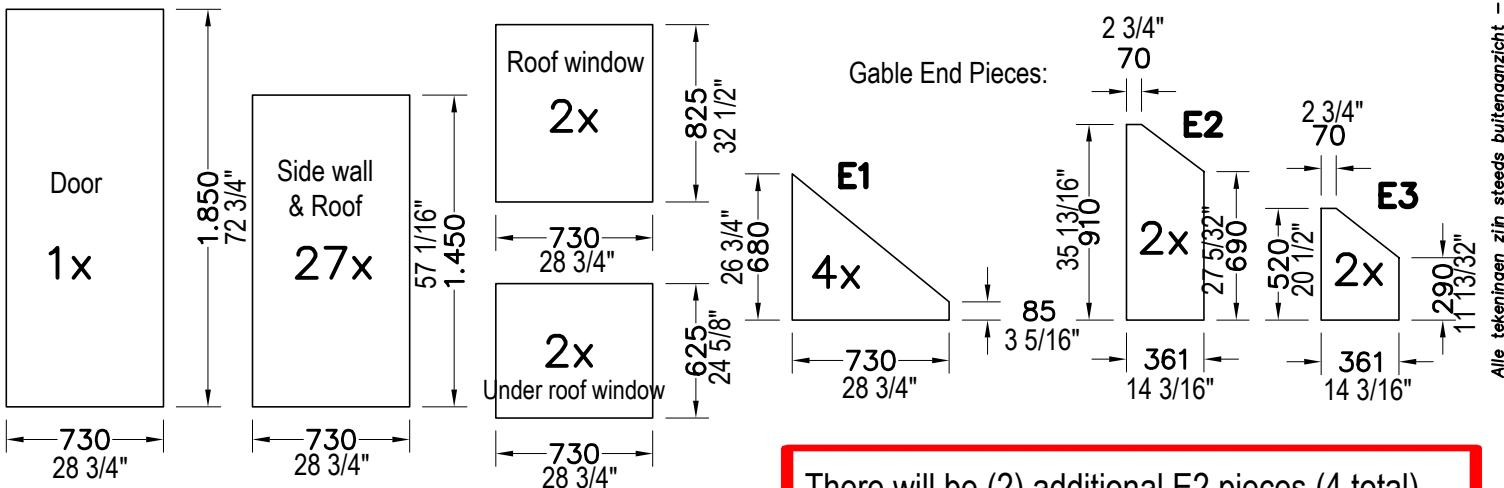
All Glass is 4mm / 3/16" thick tempered safety glass and replacements may be ordered from a local glass shop.



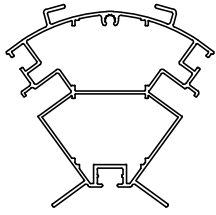
GLASS-SET EOS JUNIOR 24 236x384



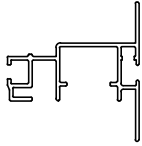
GLASS-SET EOS JUNIOR 25 236x458



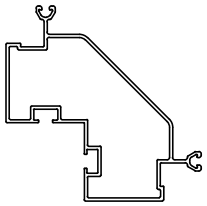
There will be (2) additional E2 pieces (4 total) used for the Wall Mount Option.



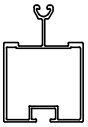
PRO40091
Ridge Beam



PRO20229
Horizontal Gable End



PRO6578 Corner Post



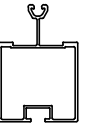
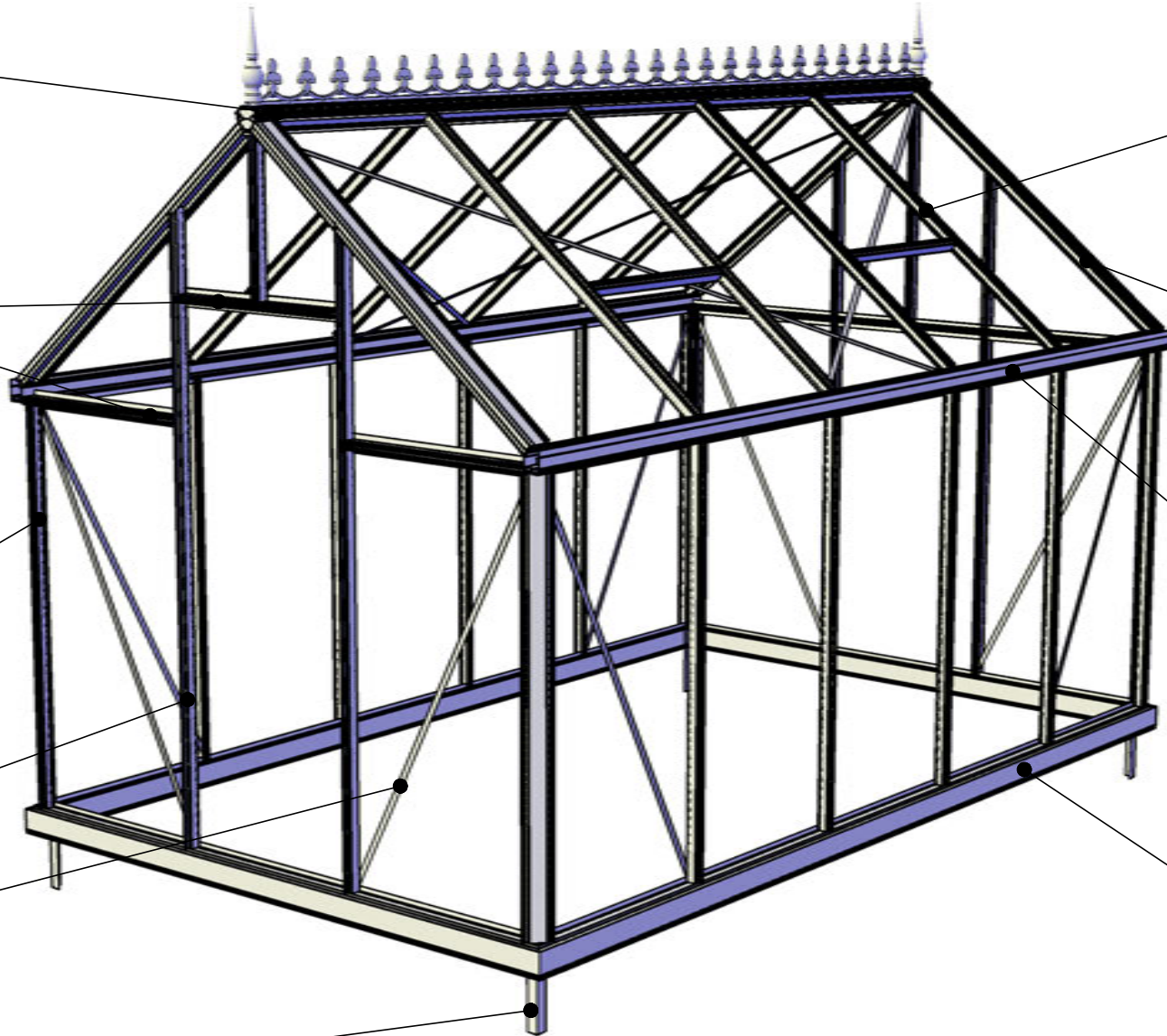
PRO1456
Vertical Glazing Stud



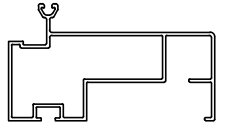
TRE
Wind Brace/Strap



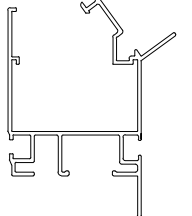
PRO210 Corner Anchors (Extend 12"
below ground level)



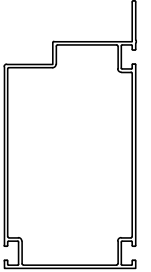
PRO1456
Roof Glazing Stud



PRO6918
Roof Endbar

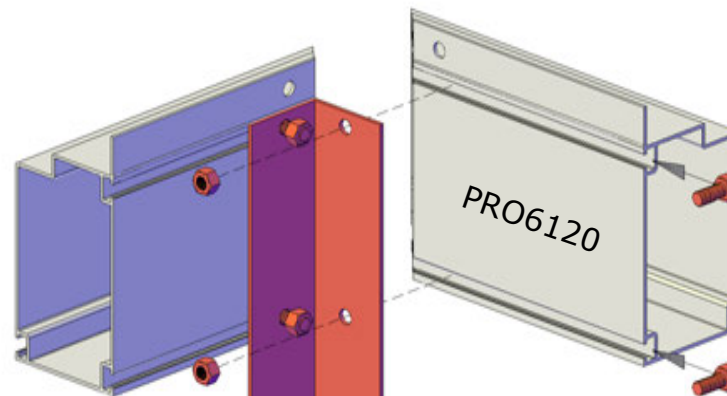
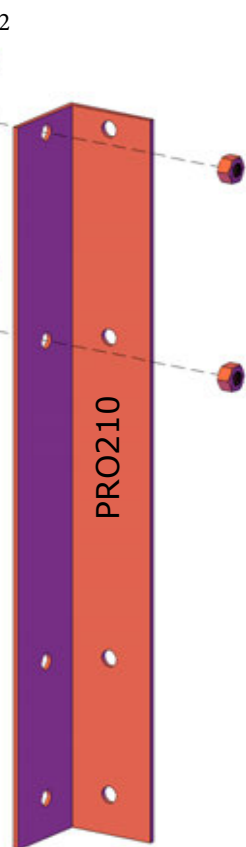
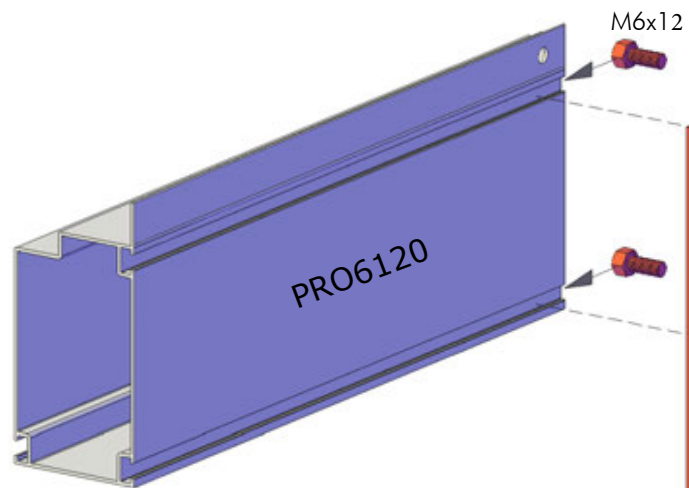


PRO20779
Gutter Profile



PRO6120
Foundation/base

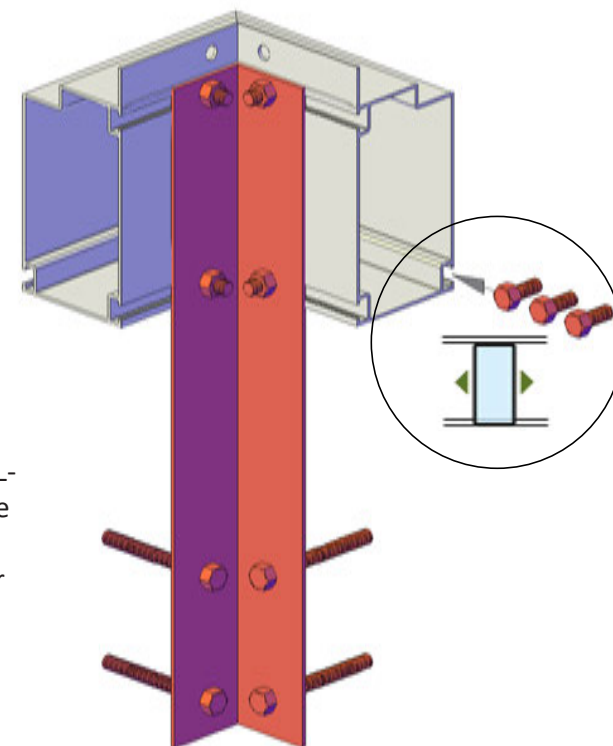
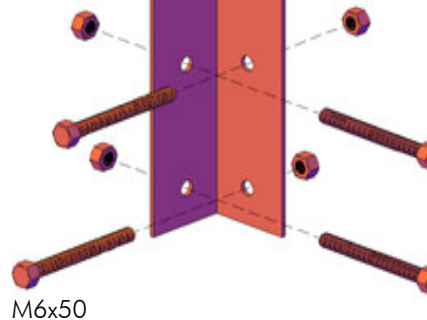
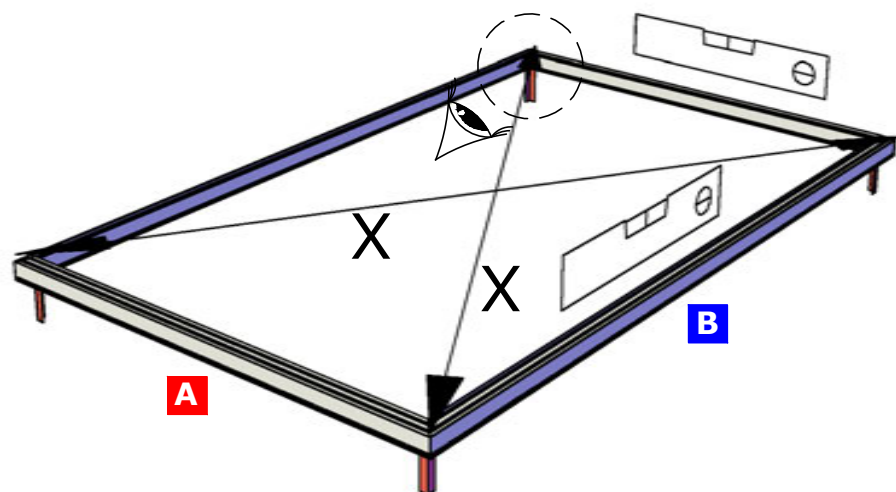
JUNIOR



IMPORTANT!

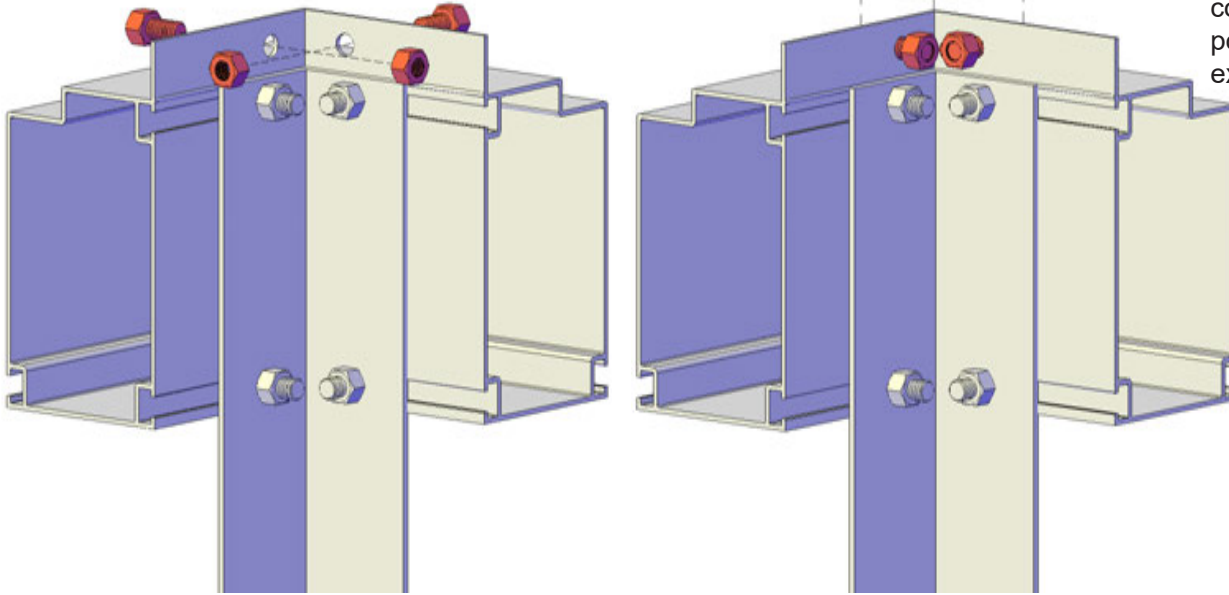
Before attaching, insert 3 M6x12 bolts as shown for the sliding door guide. You will use 6 bolts for a double sliding door.

Note: When assembling the foundation in this step, only hand-tighten the nuts. The corners may need to be slightly loose to attach the corner uprights (PRO6578). If the holes on the foundation frame do not align with the channel on the gutter profiles, then you can use a drill to extend the holes on the foundation frame.

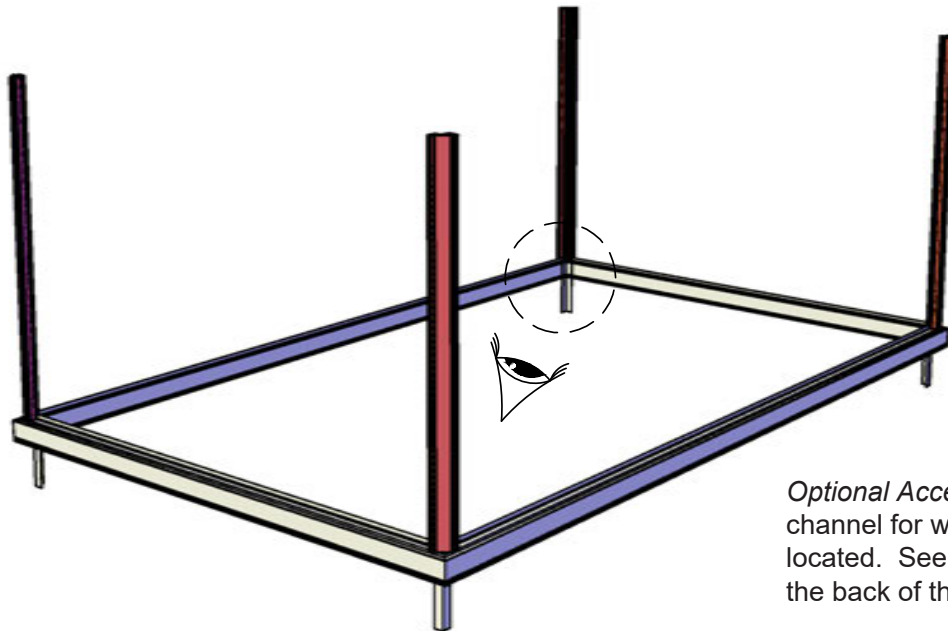
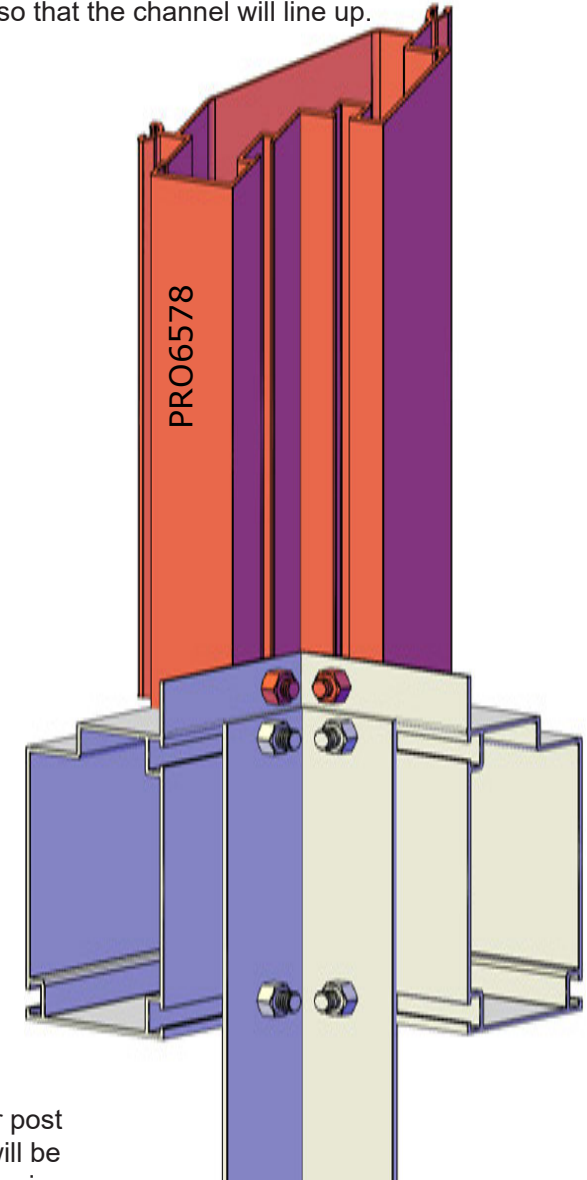


Suggestion: If installed on a concrete foundation you may cut PRO210 flush with the bottom of PRO6120. To anchor, use cut off PRO210 pieces as L-brackets to secure the PRO6120 to the concrete foundation. Please see YouTube animated assembly video for more information.

M6x12

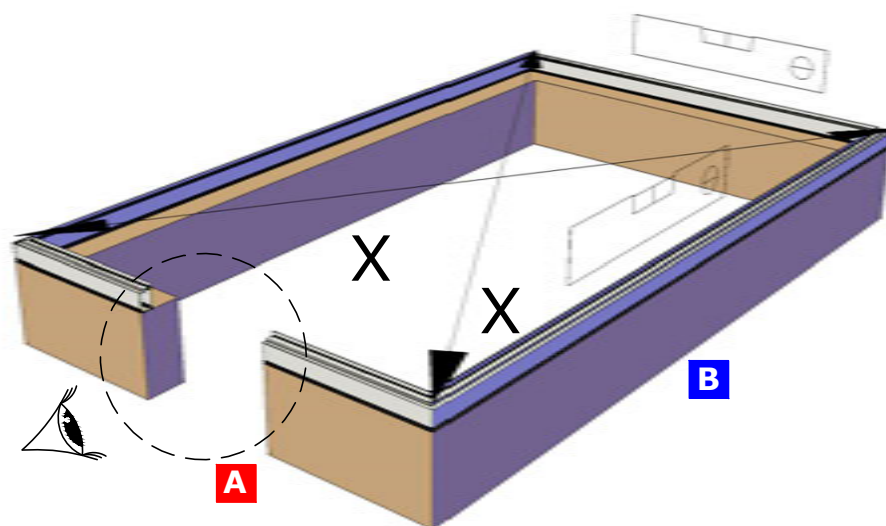
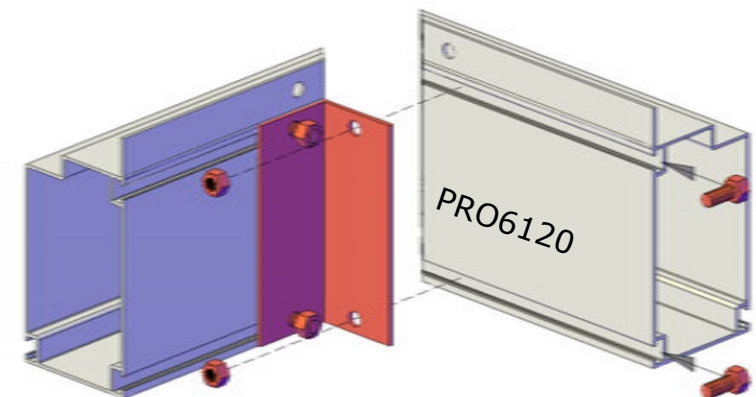
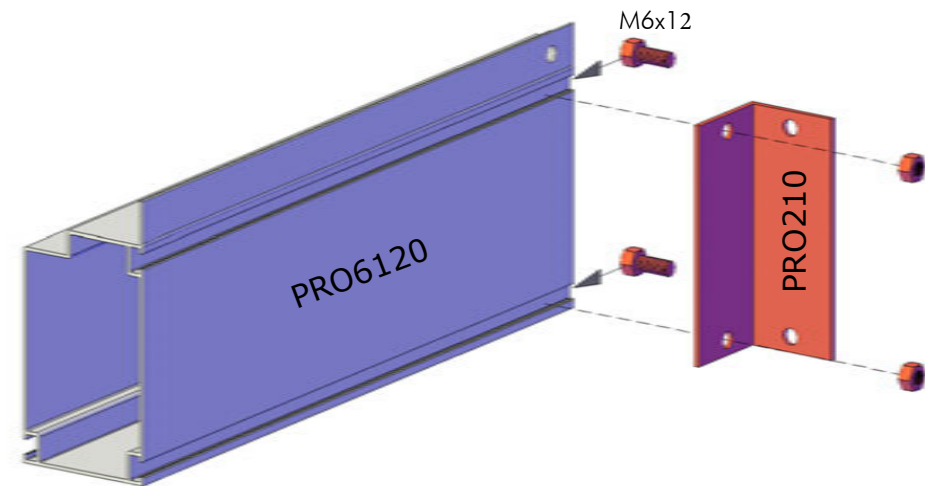
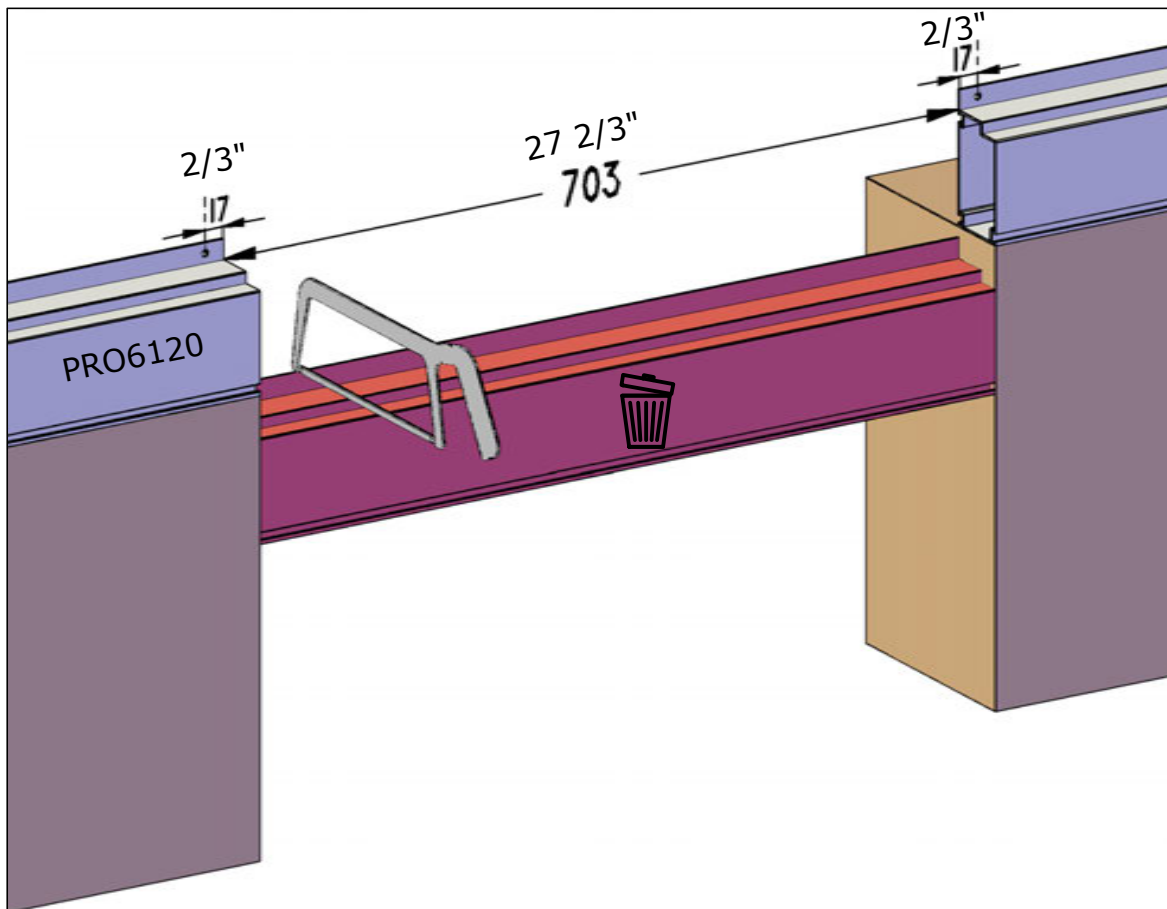


Sliding the corner post (PRO6578) down onto the head of the bolts can be challenging. Use two people: one hold the threaded tips of both bolts with a pliers to position the hexagonal head inline with the channels on PRO6578. It may help to loosen the nuts holding the corner anchor to allow for a little bit of play. If the channels on the corner post do not line up with the holes on the foundation frame, use a drill to extend the holes so that the channel will line up.

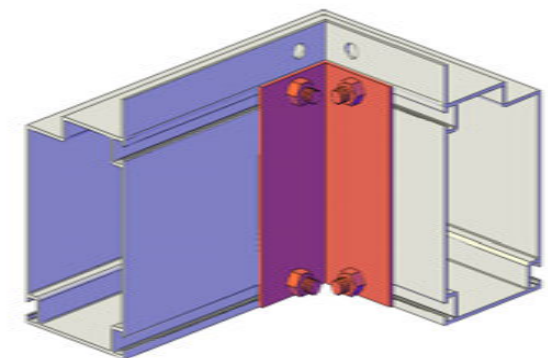


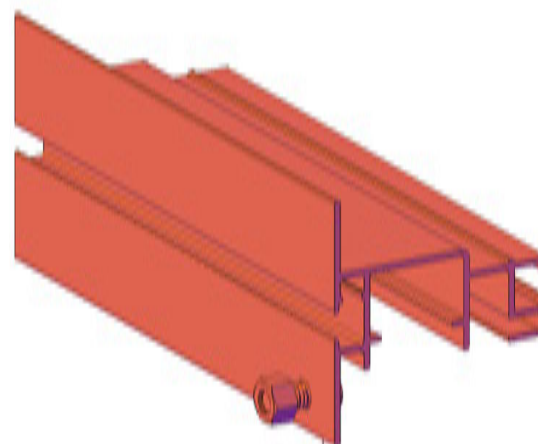
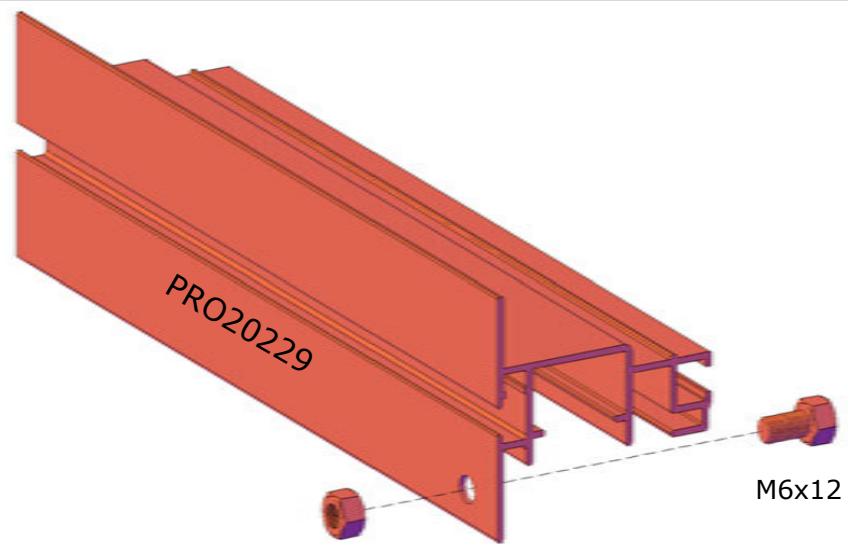
IMPORTANT!

Optional Accessories! Insert a bolt into each corner post channel for where the top shelf and/or Seed Tray will be located. See these pages in the accessories section in the back of the manual.

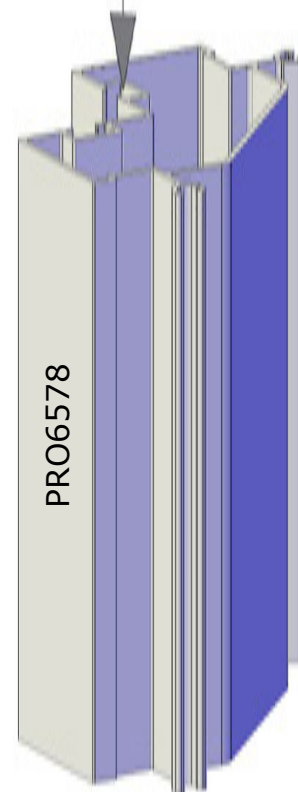
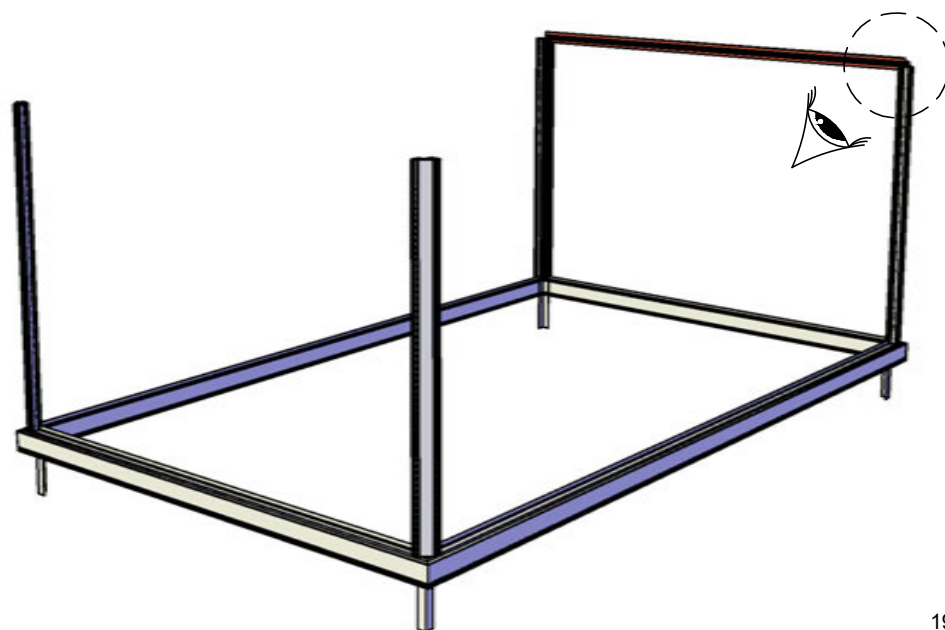
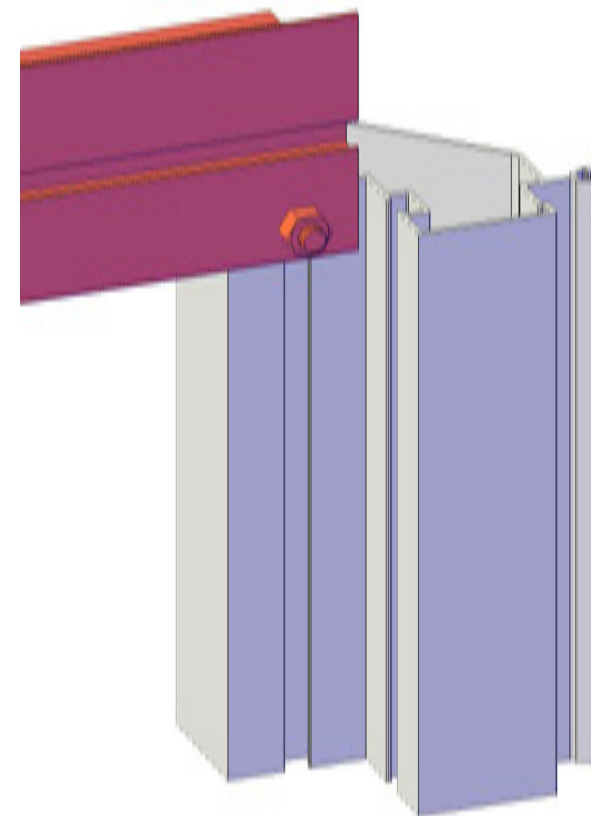


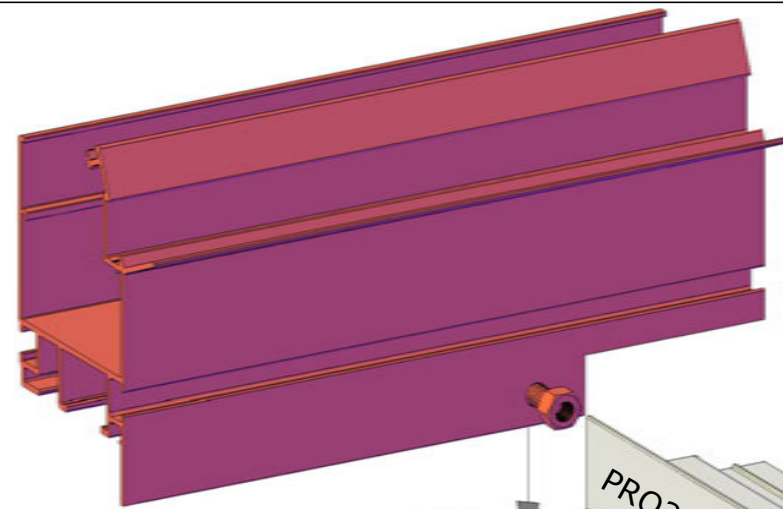
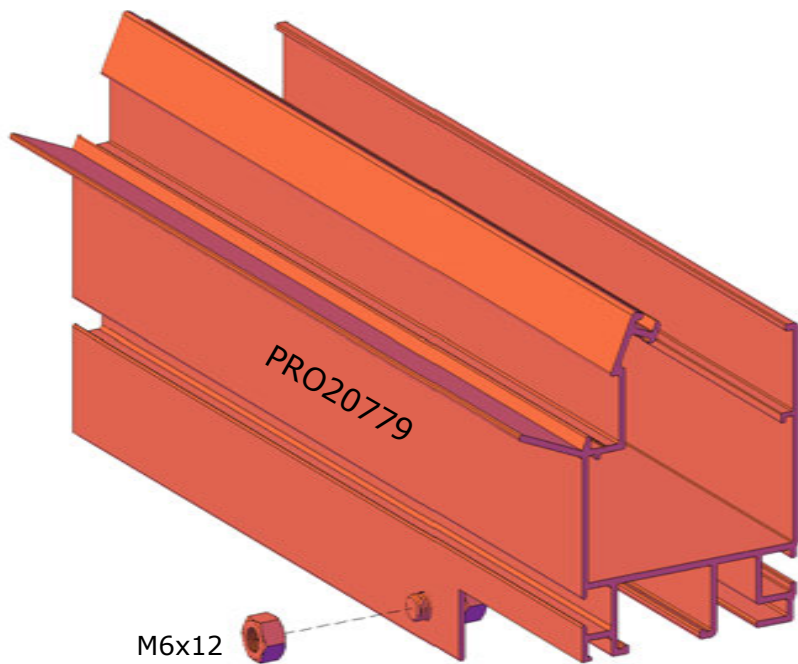
- You will have (4) $15\frac{3}{4}"$ long L brackets.
- Cut off 4" of the L bracket to connect the foundation frame pieces together.
- Cut the remaining $11\frac{3}{4}"$ into thirds and flip horizontally to mount the top half into the foundation frame and the bottom half into the concrete or other foundation.
- Use self-tapping screws or pre-drill and use normal screws to mount the top part into the foundation frame of the greenhouse.
- Use concrete anchor screws (link provided below) to attach the bottom part to your concrete. We HIGHLY recommend pre-drilling and using a hammer drill to drill the anchors in.





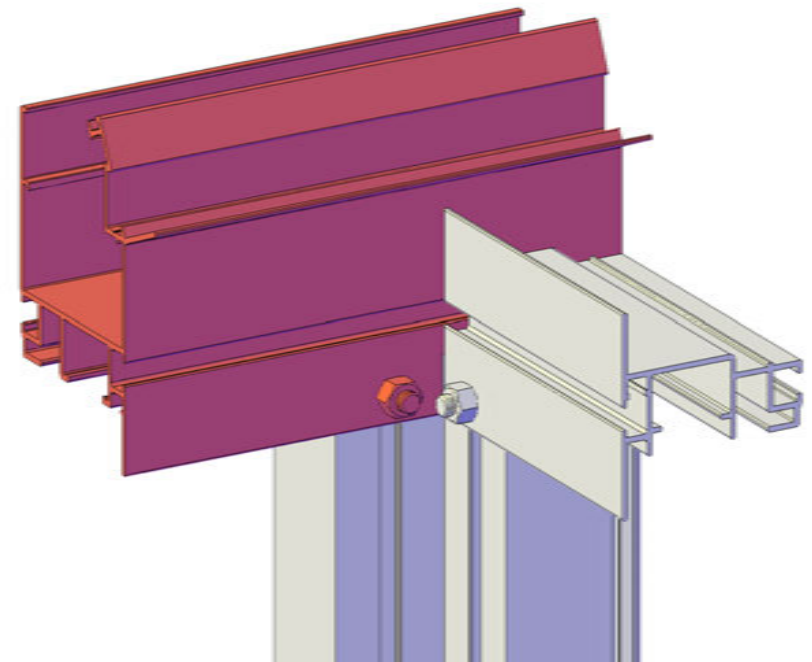
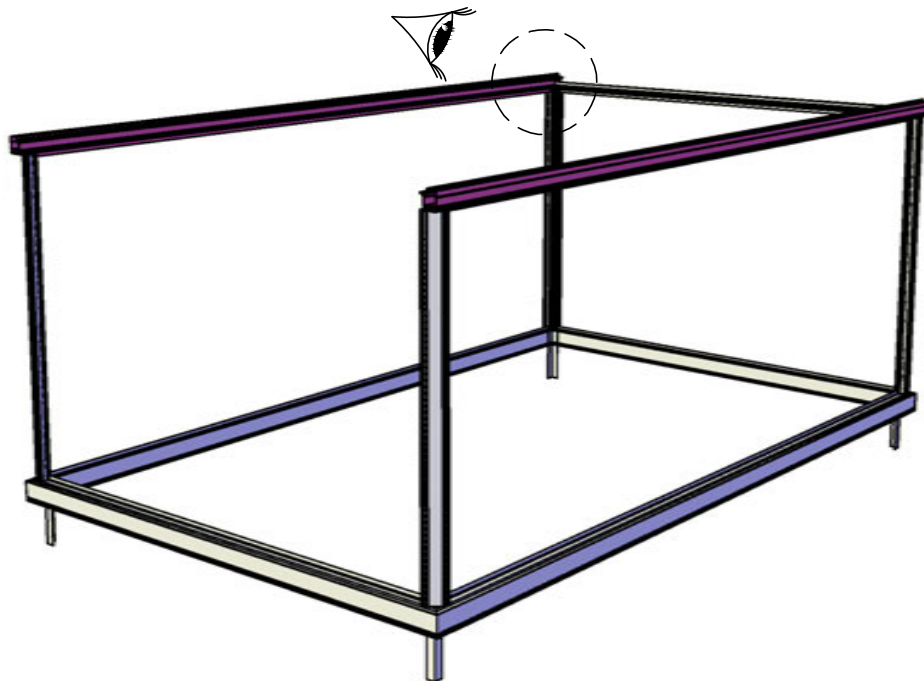
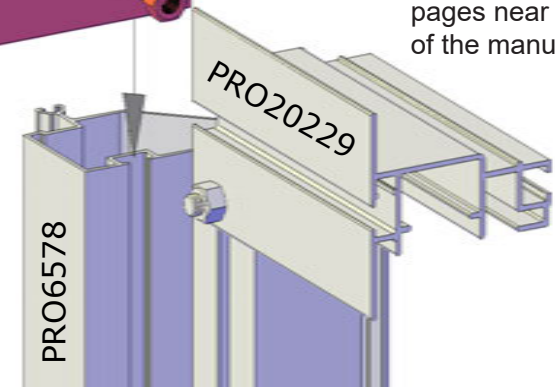
M6x12





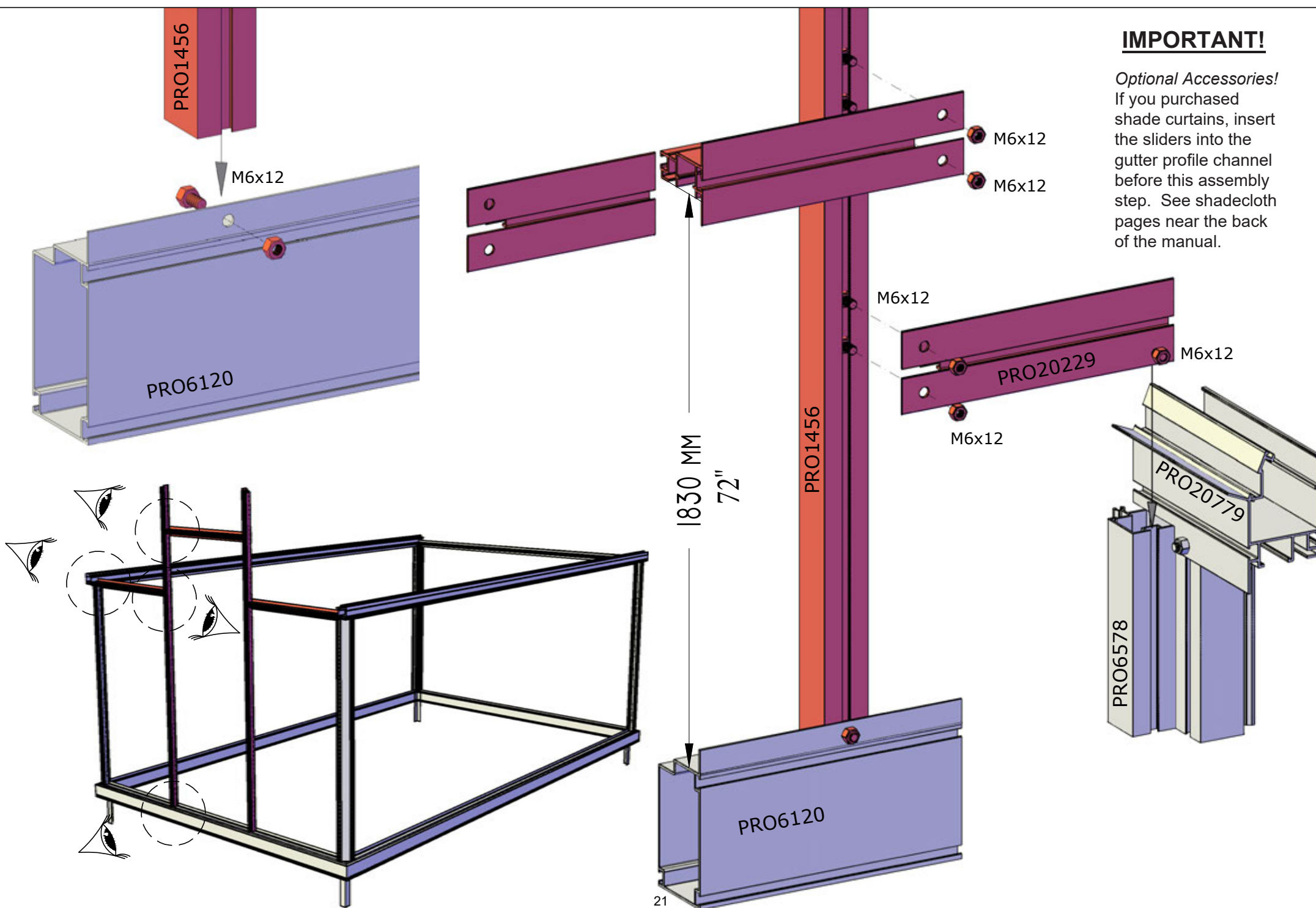
IMPORTANT!

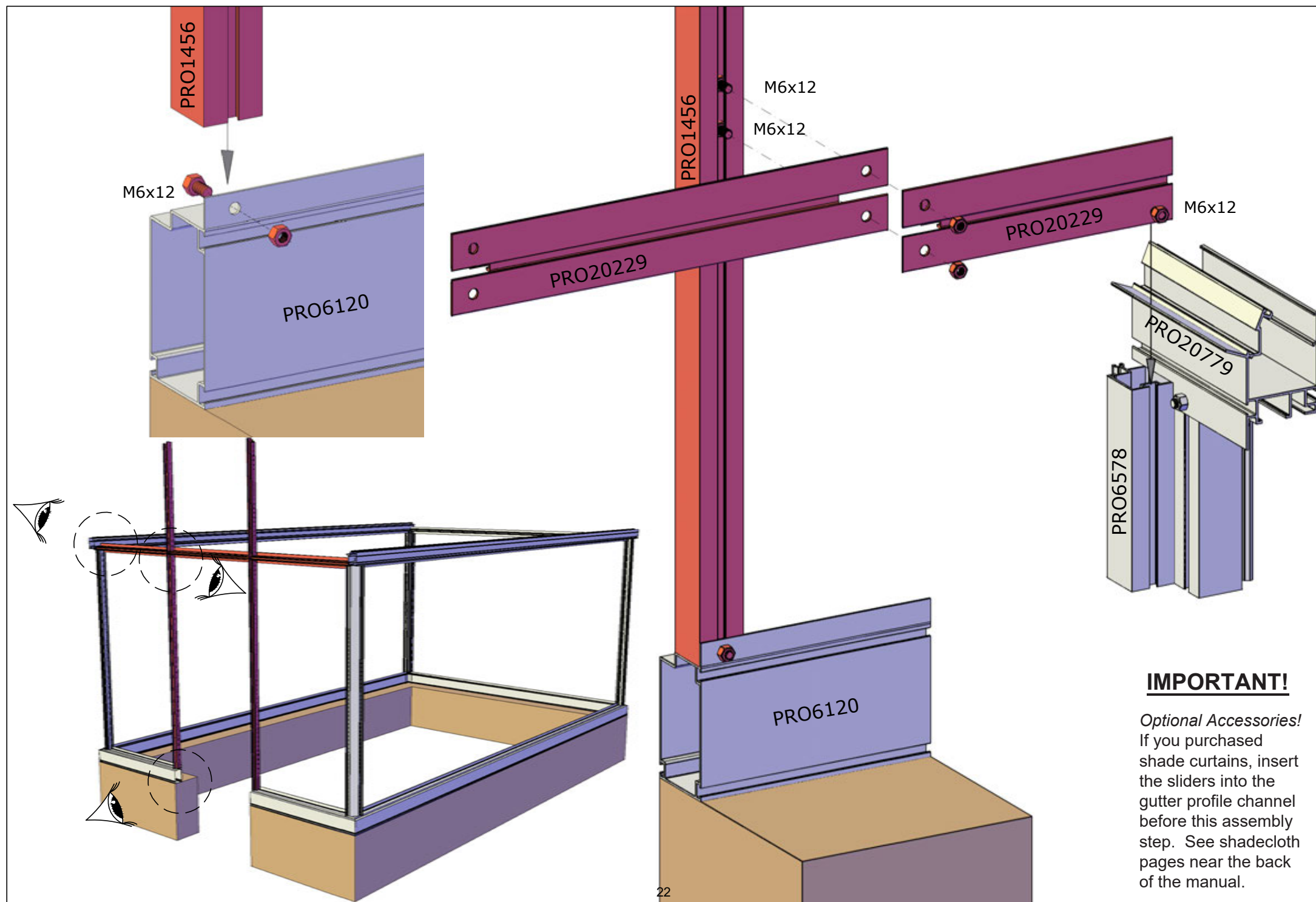
Optional Accessories!
If you purchased shade curtains, insert the sliders into the gutter profile channel before this assembly step. See shade cloth pages near the back of the manual.

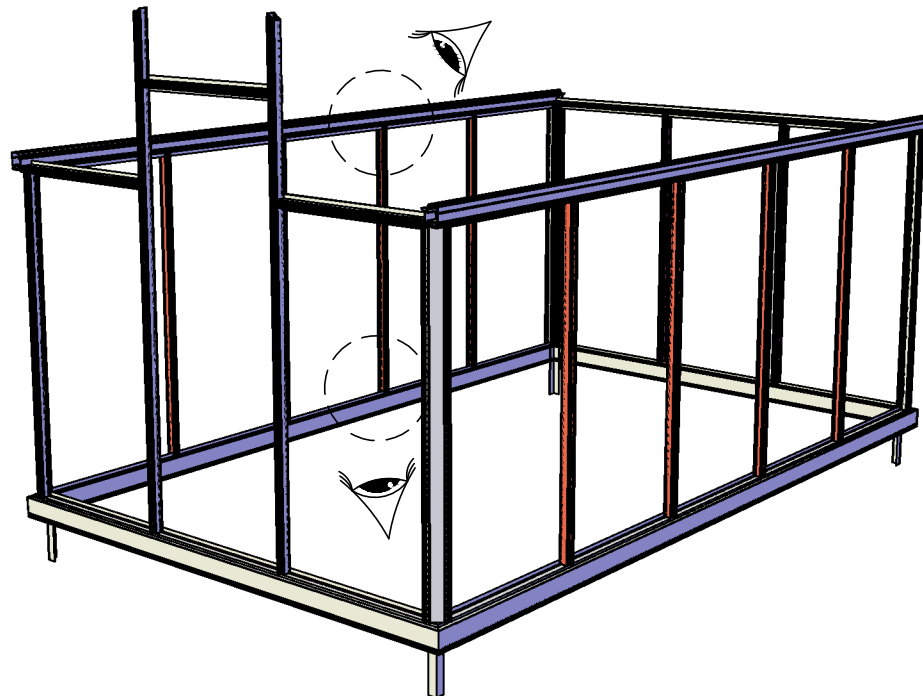
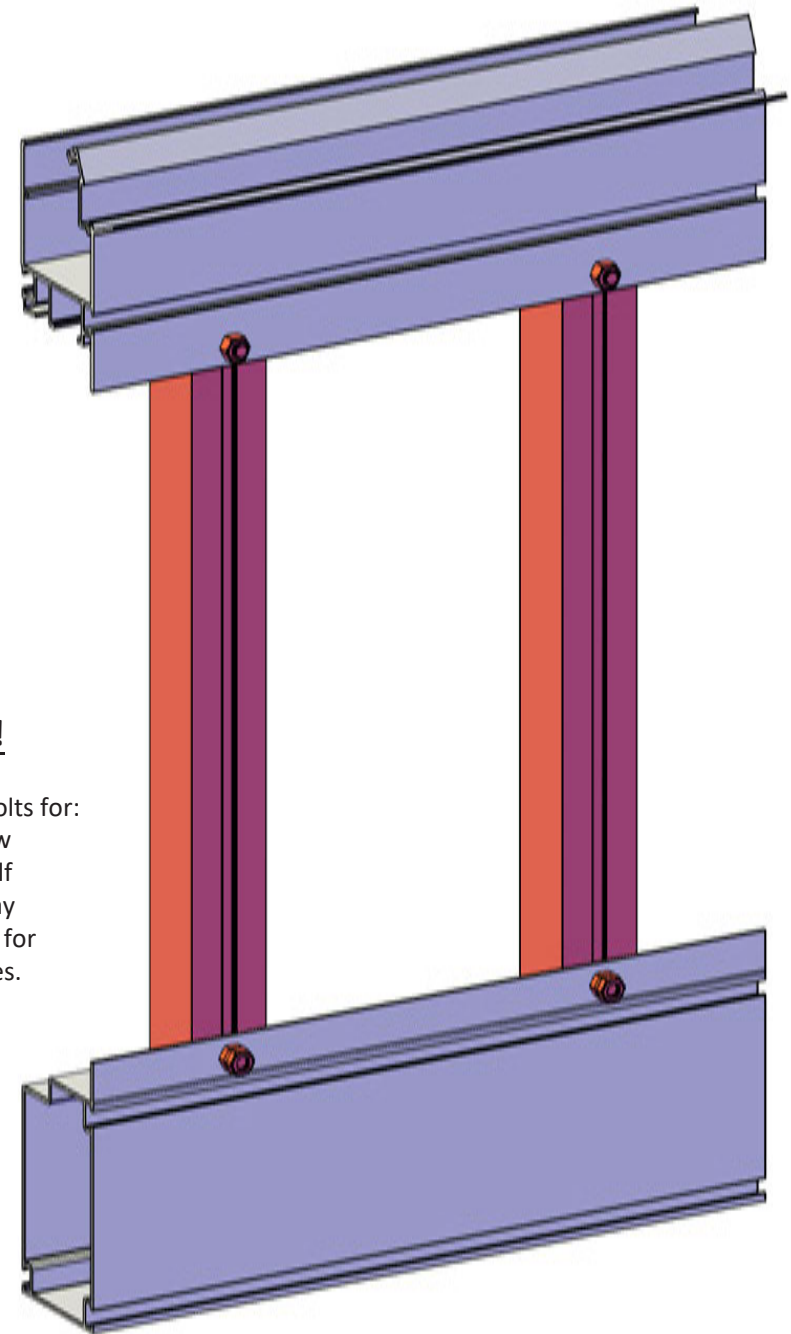
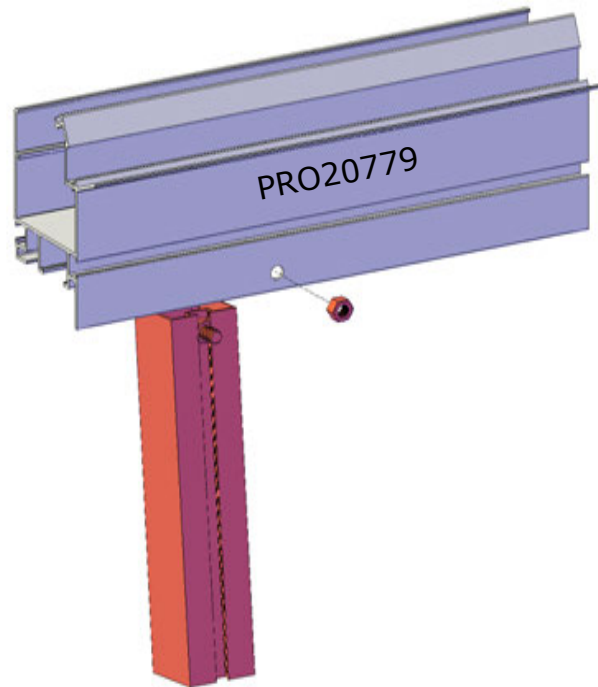
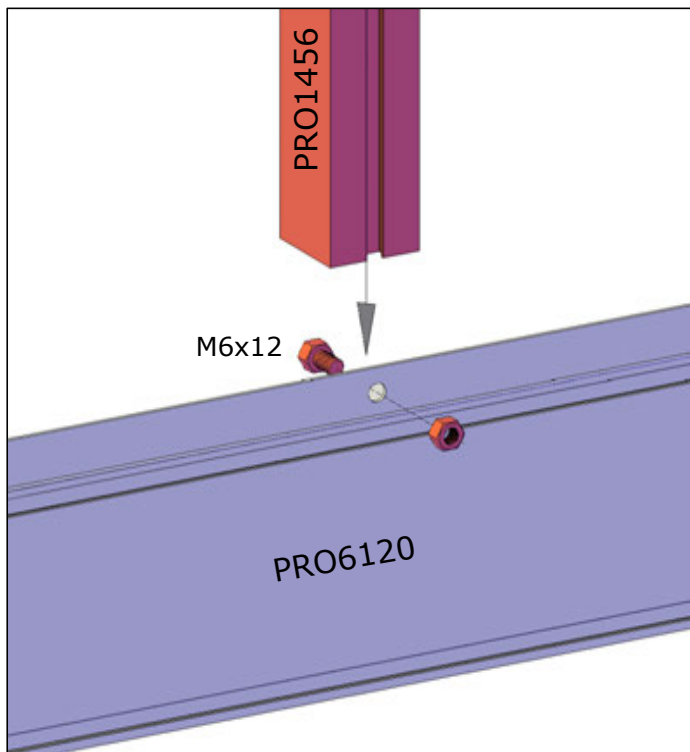


IMPORTANT!

Optional Accessories!
If you purchased shade curtains, insert the sliders into the gutter profile channel before this assembly step. See shadecloth pages near the back of the manual.





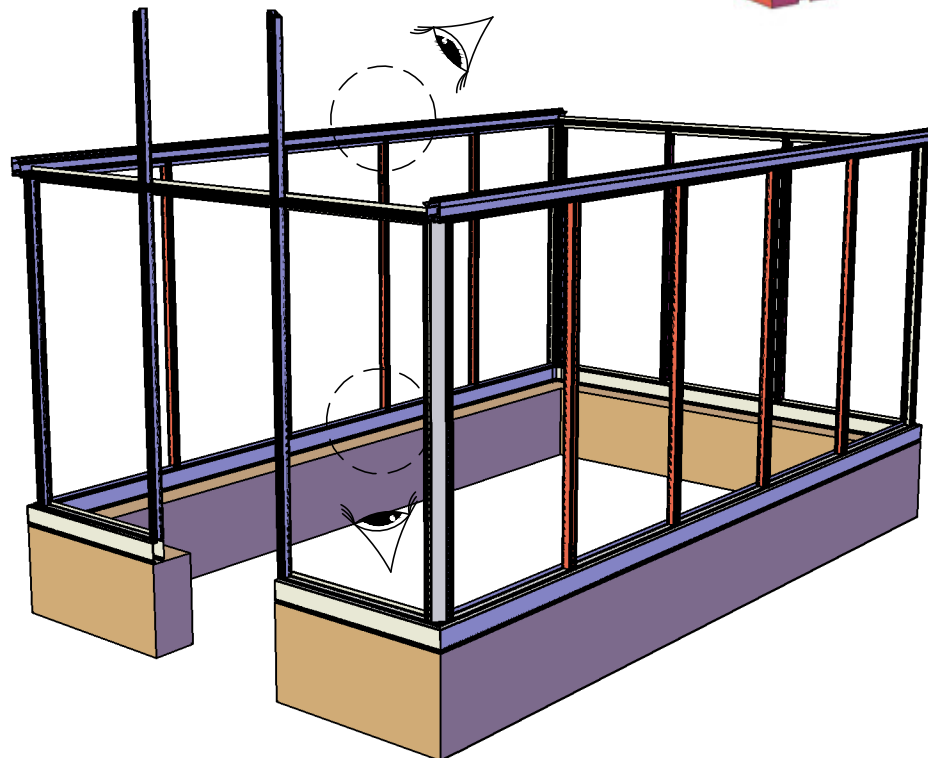
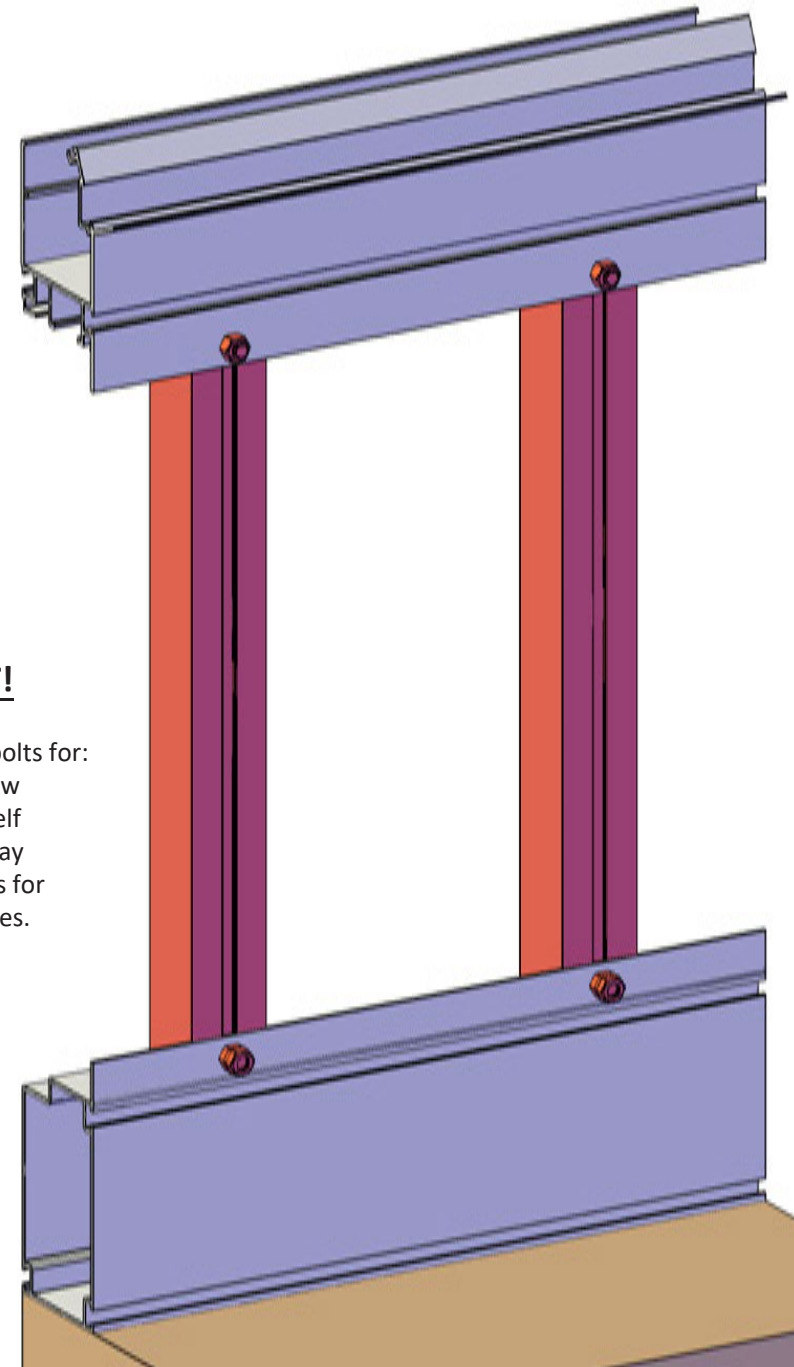
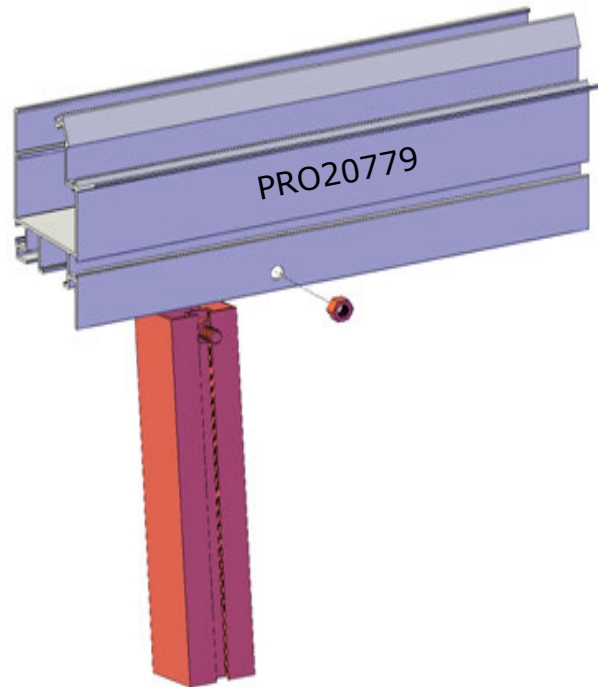
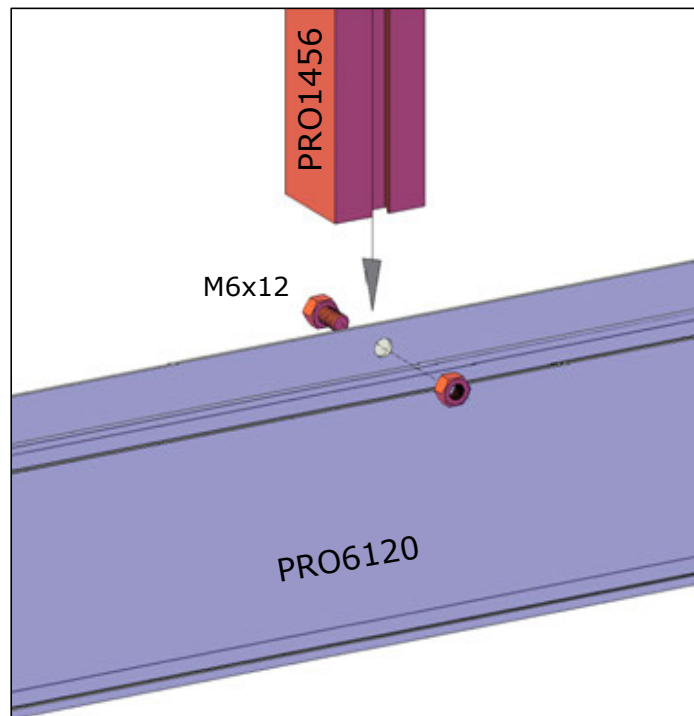


IMPORTANT!

Before securing vertical profiles insert bolts for:

- Louvered Window
- Optional Top Shelf
- Optional Seed Tray

See table of contents for corresponding pages.

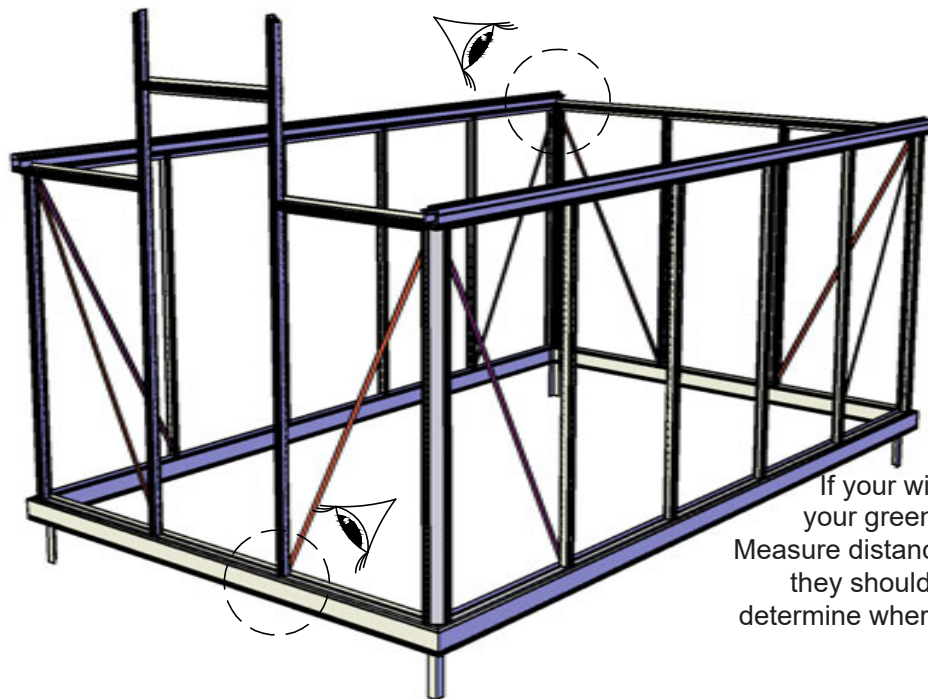
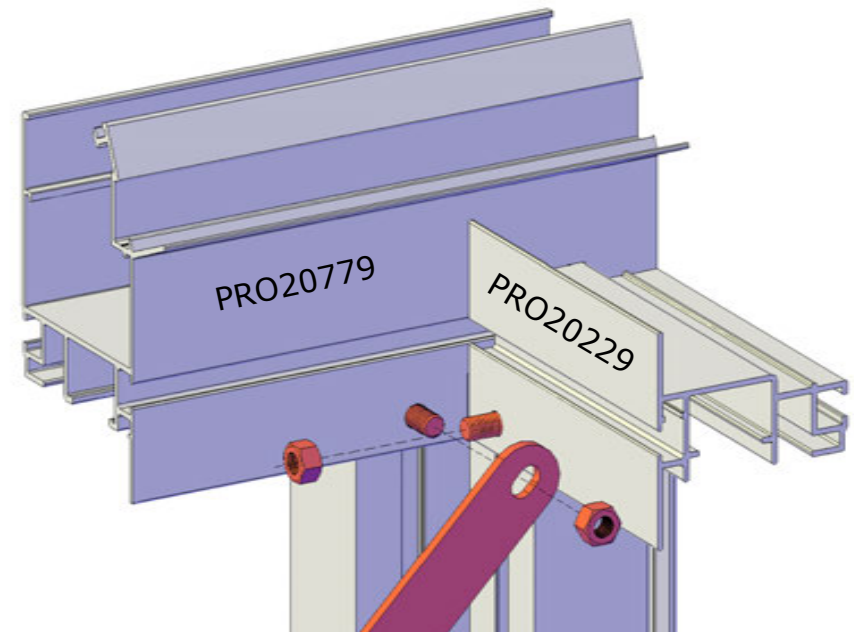
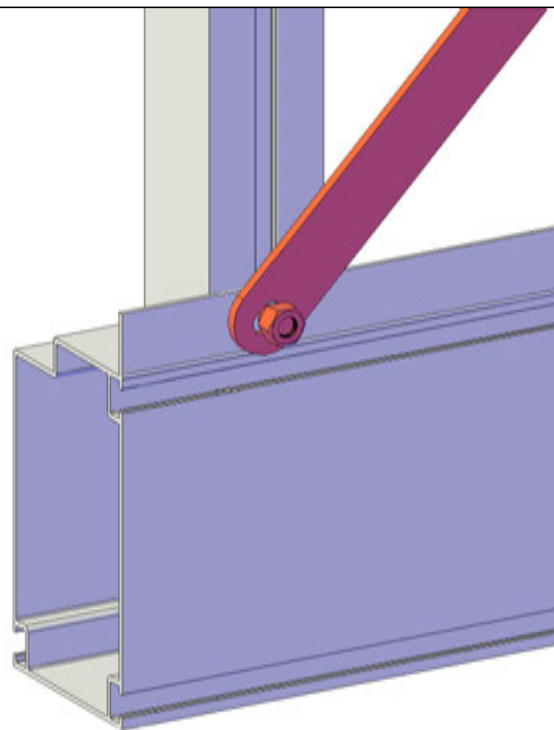
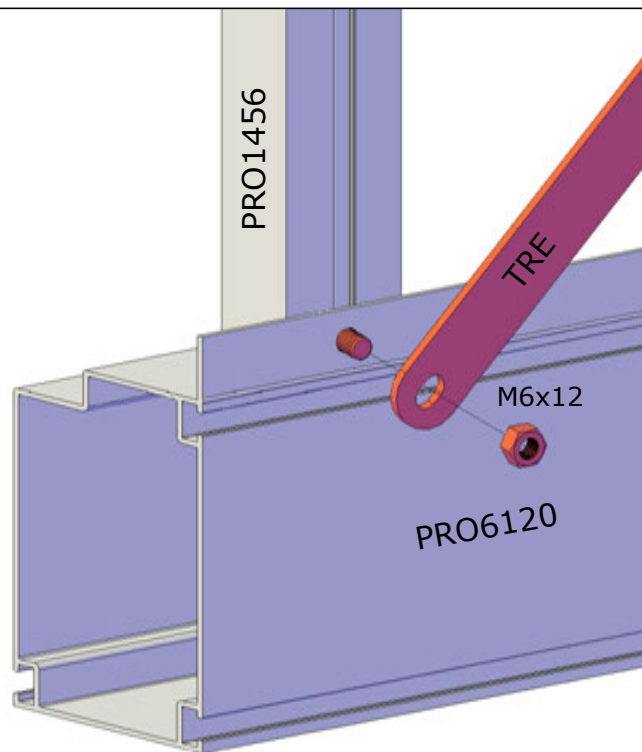


IMPORTANT!

Before securing vertical profiles insert bolts for:

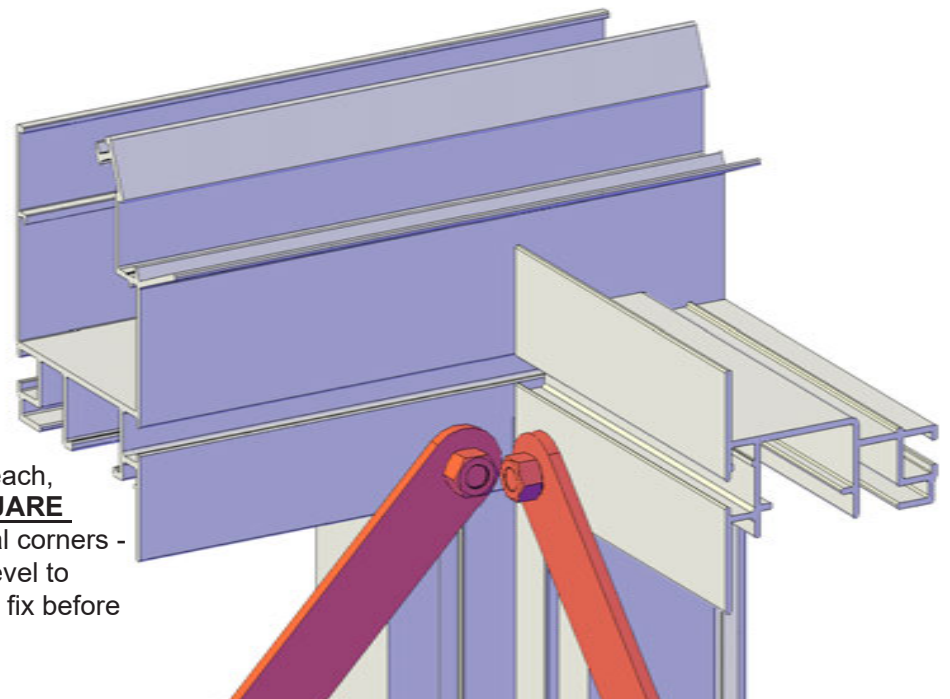
- Louvered Window
- Optional Top Shelf
- Optional Seed Tray

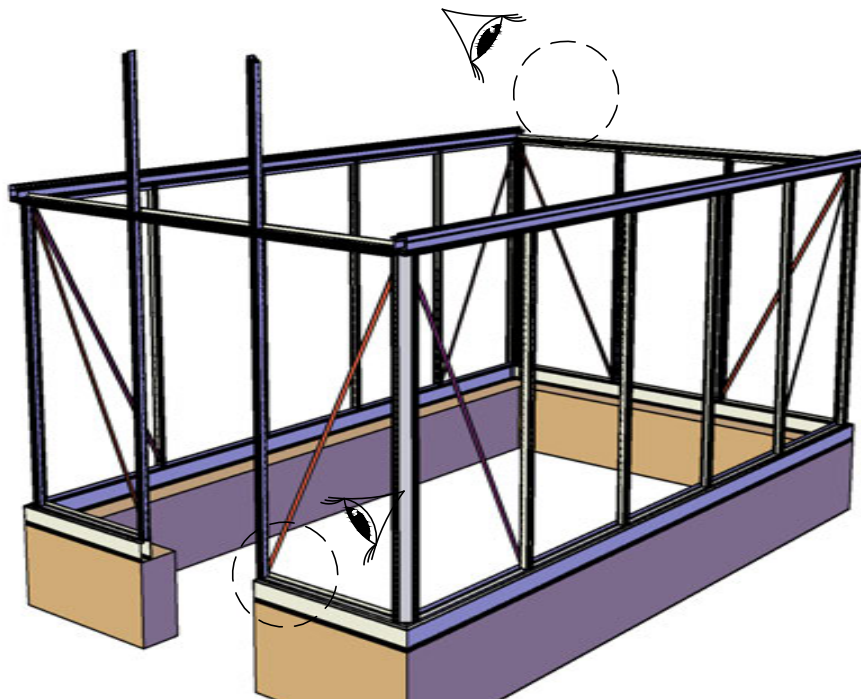
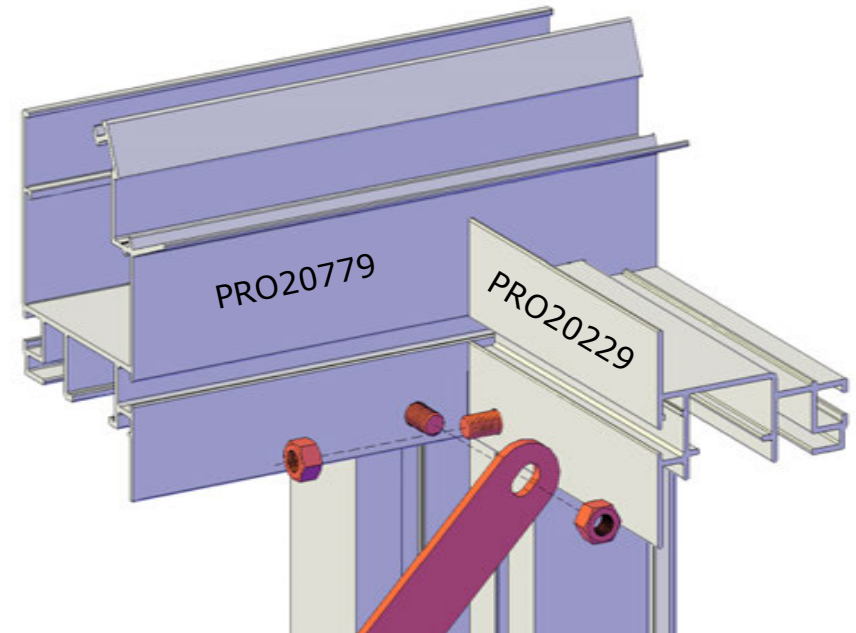
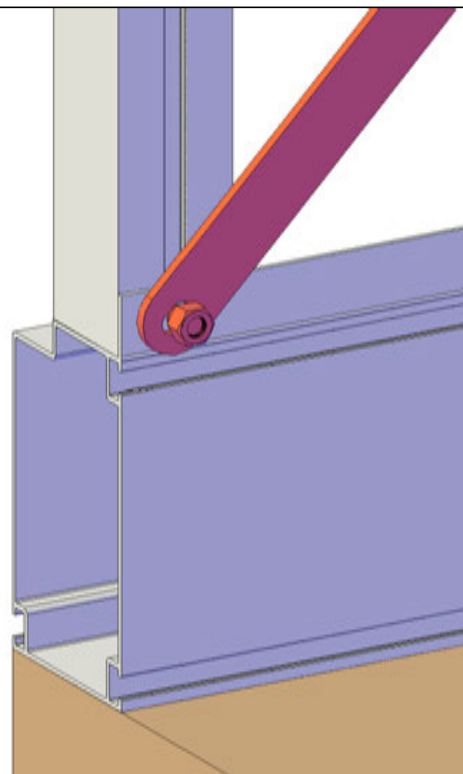
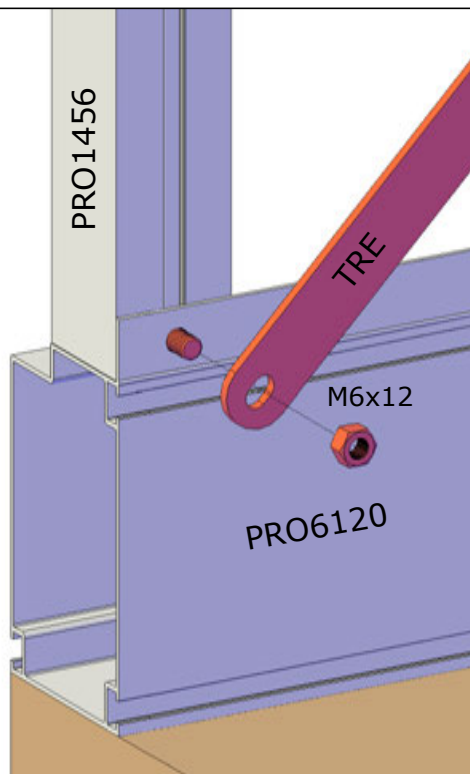
See table of contents for corresponding pages.



IMPORTANT!

If your wind braces do not reach, your greenhouse is **NOT SQUARE**. Measure distance between diagonal corners - they should be equal. Use a level to determine where the issue lies and fix before proceeding.

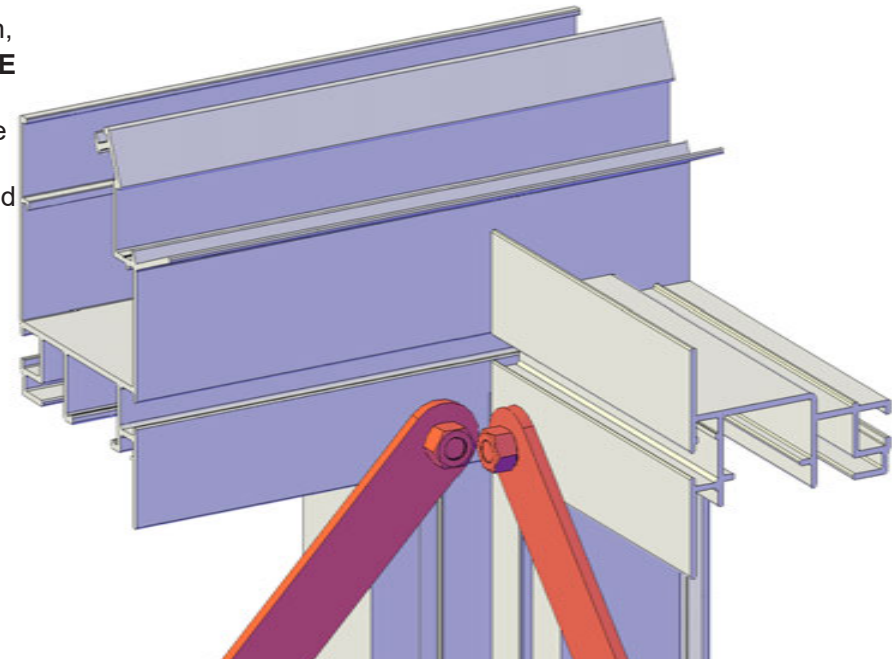


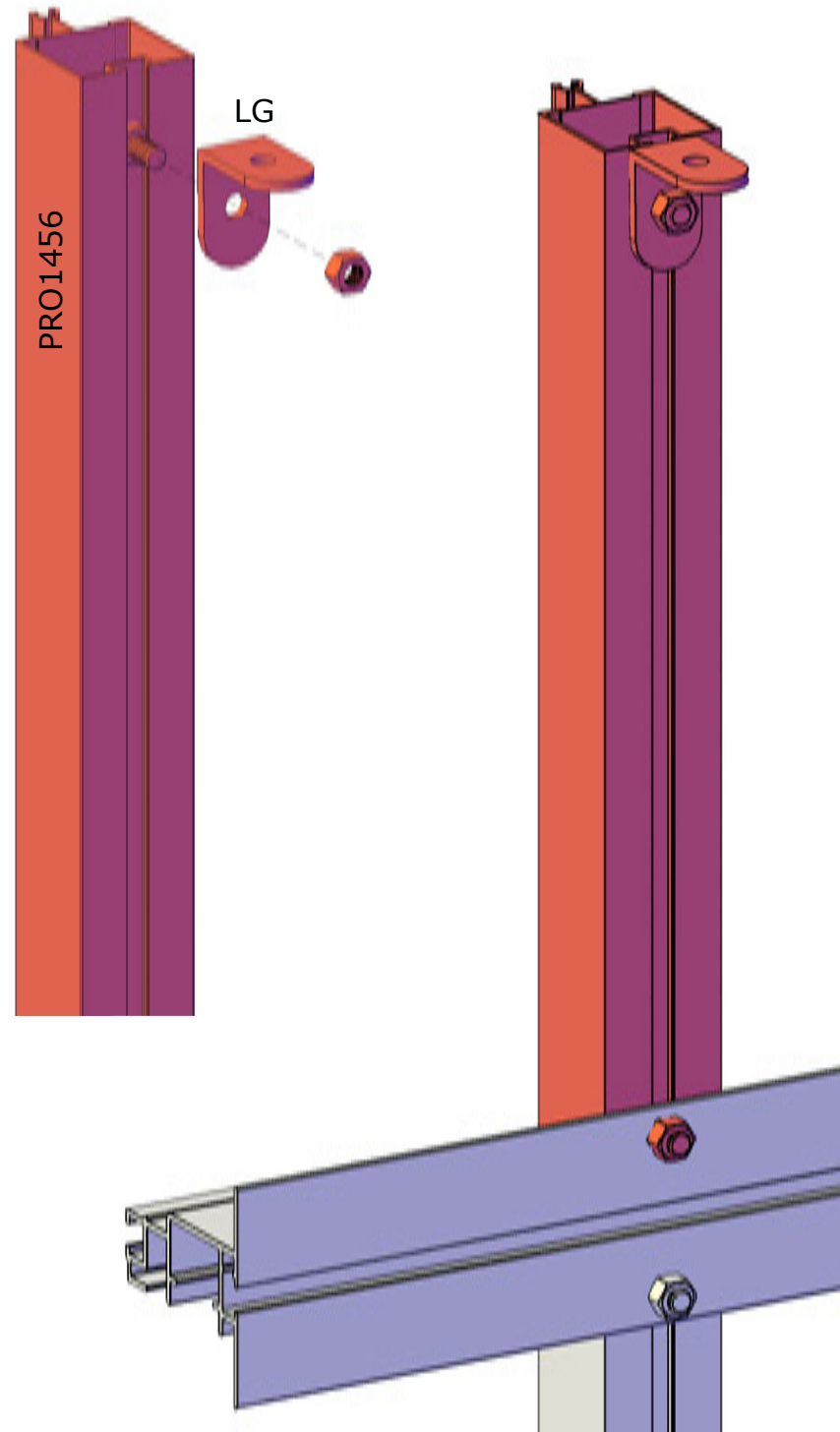
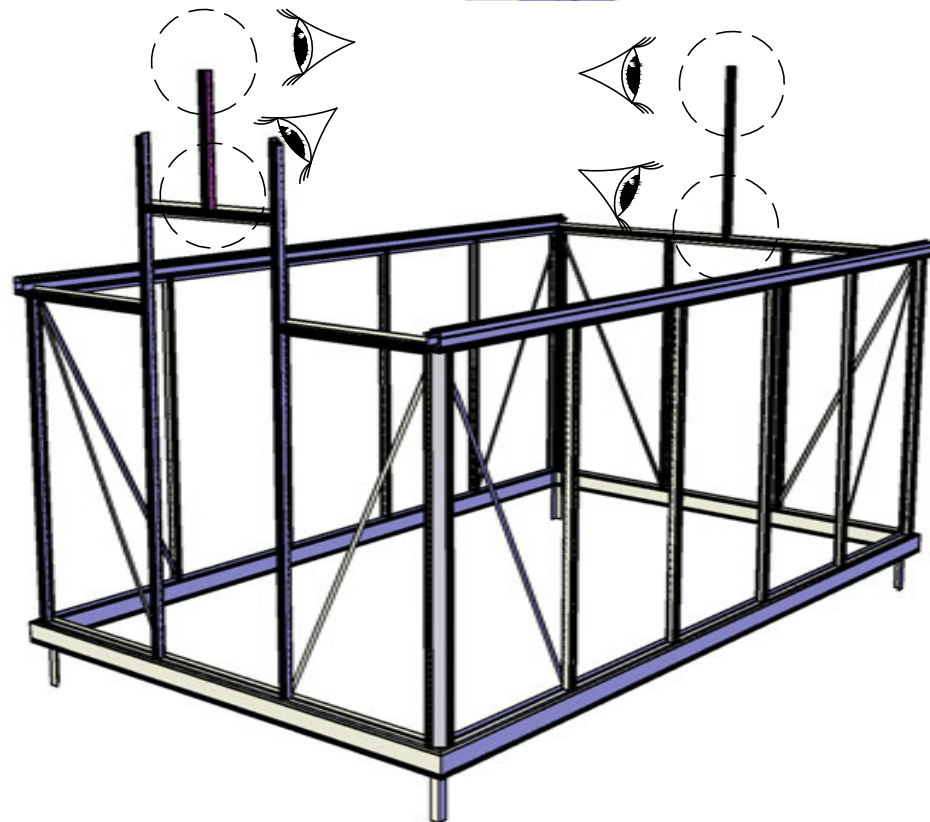
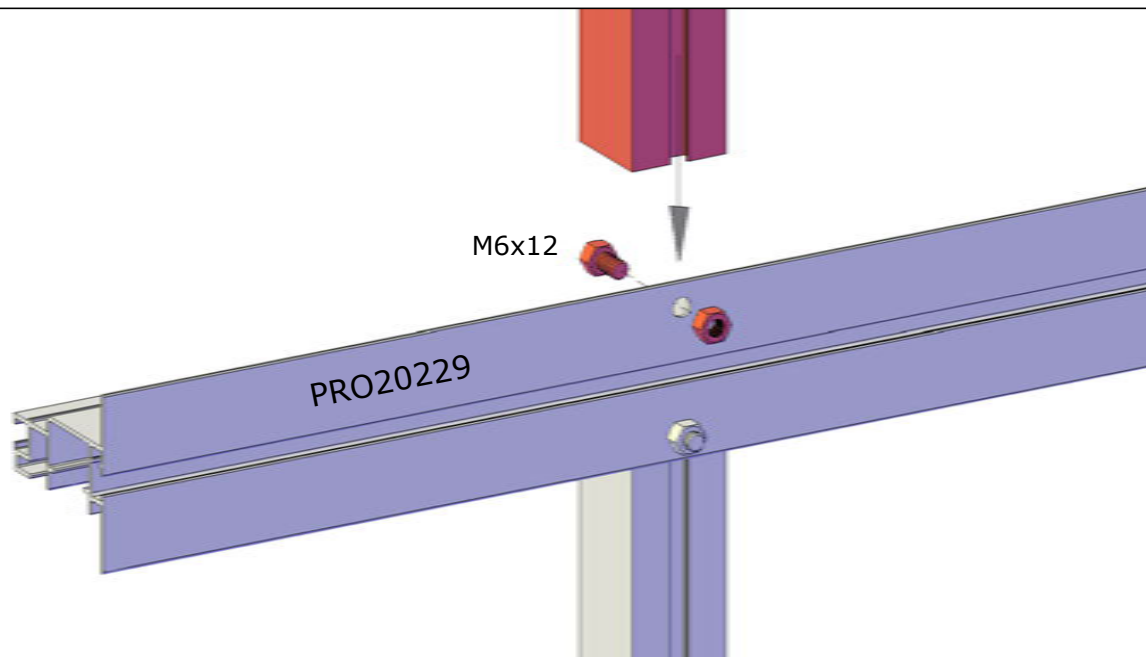


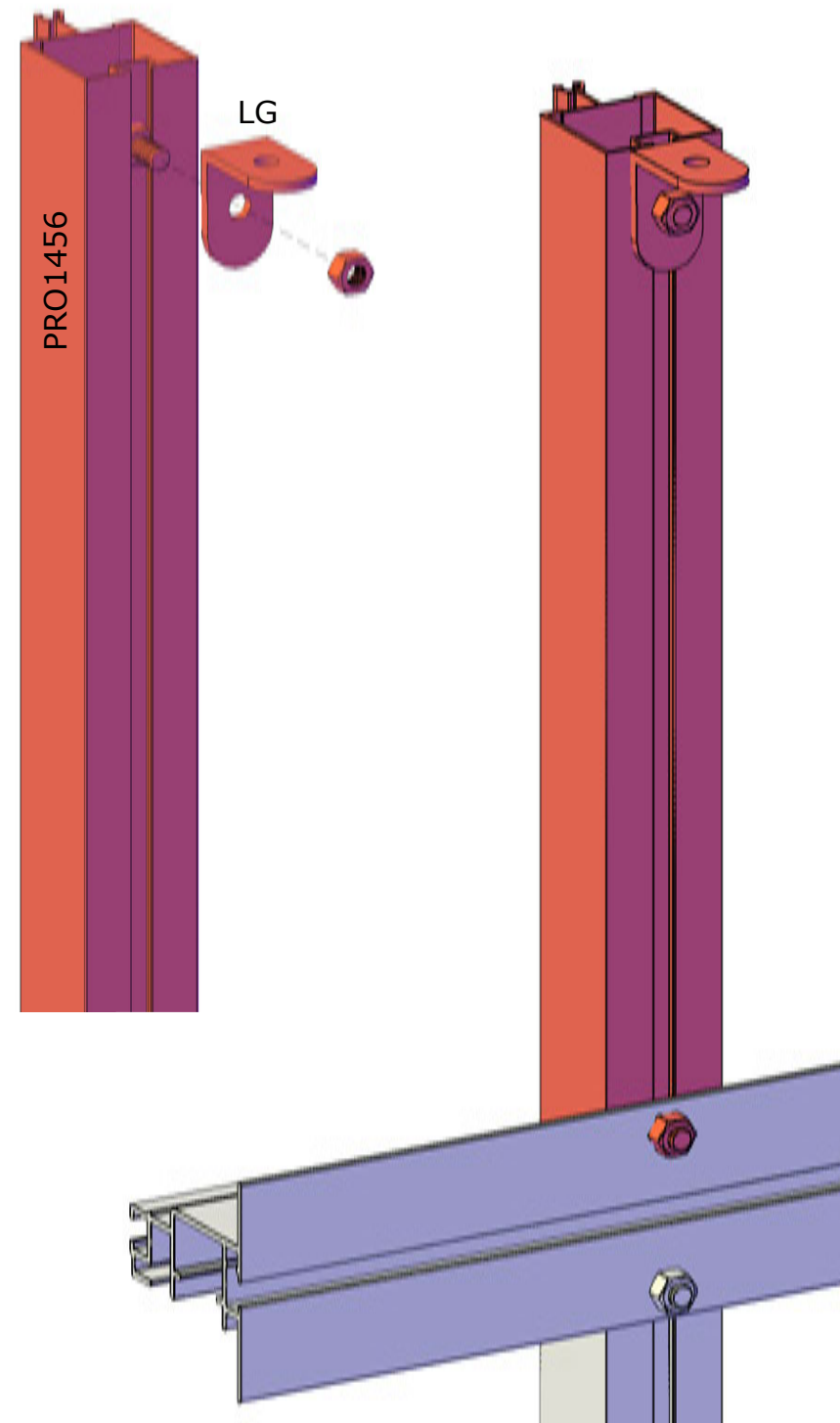
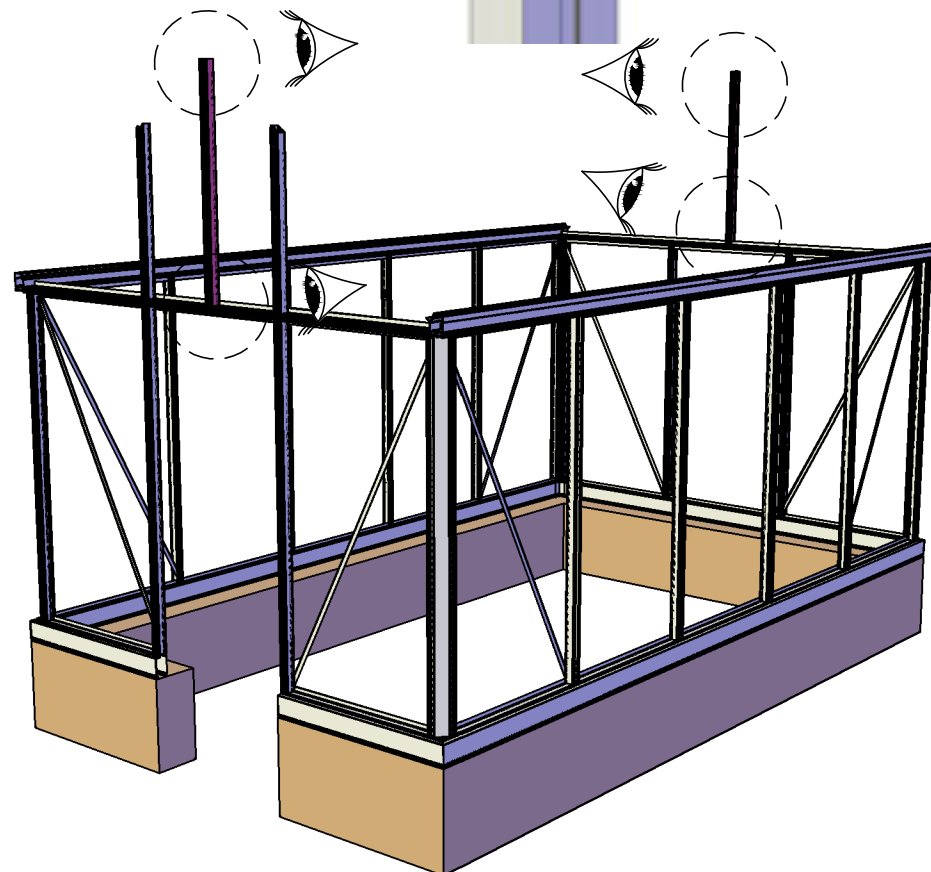
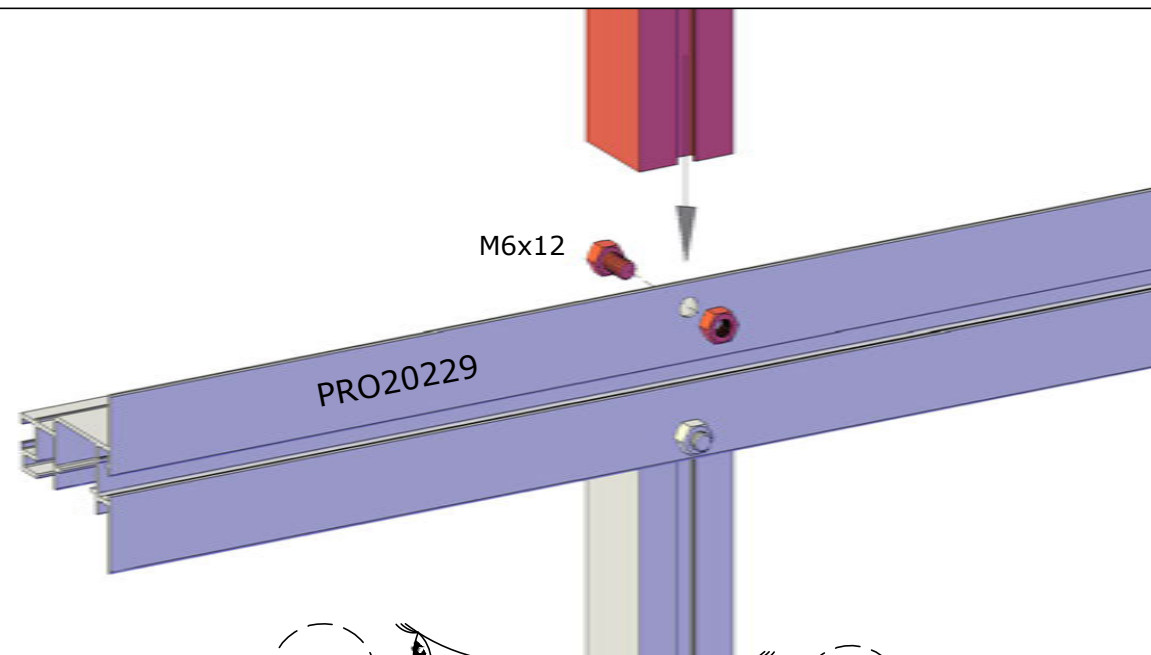
IMPORTANT!

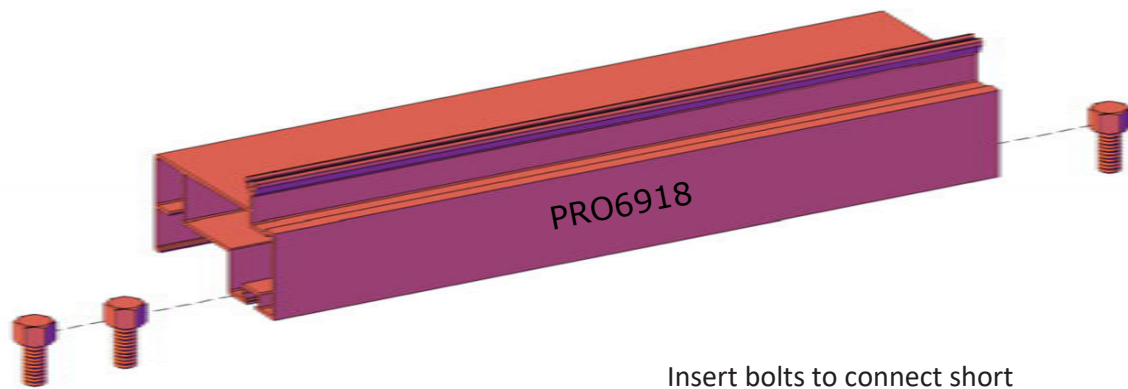
If your wind braces do not reach, your greenhouse is **NOT SQUARE**

Measure distance between diagonal corners - they should be equal. Use a level to determine where the issue lies and fix before proceeding.



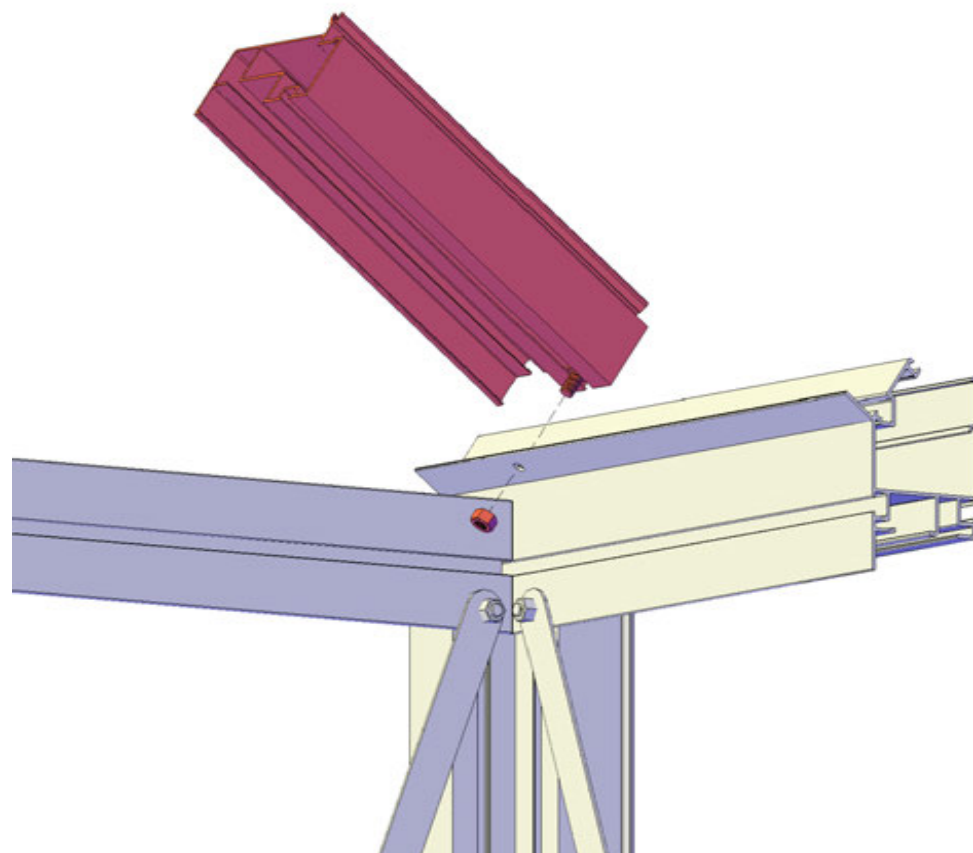
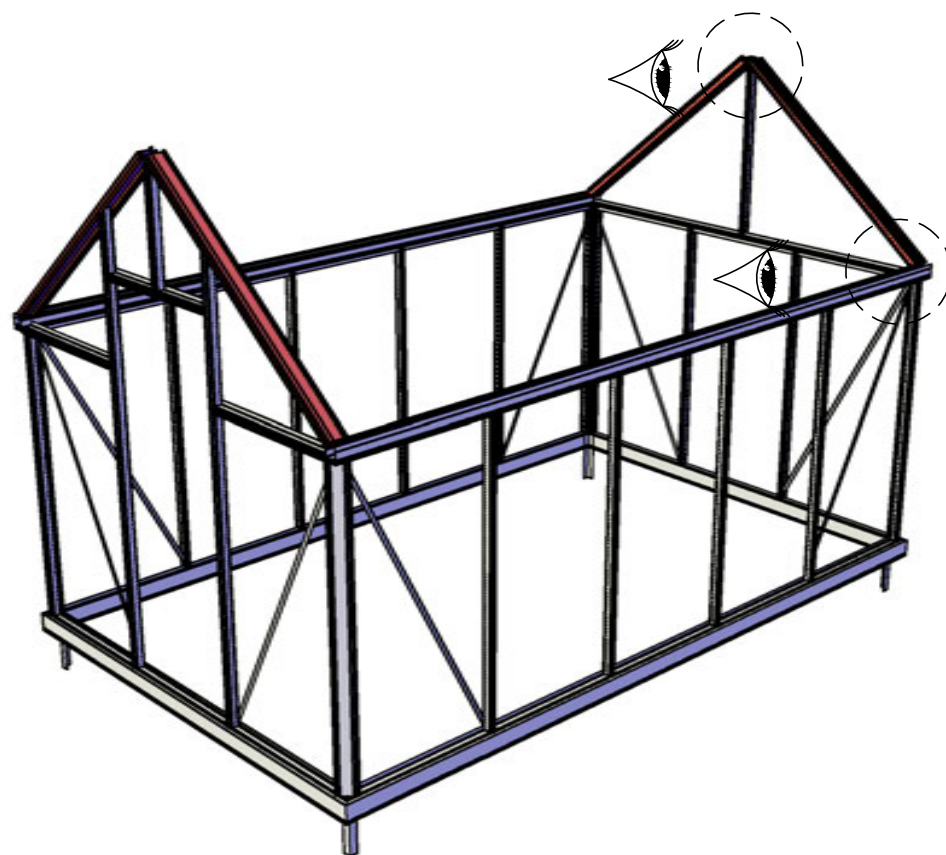
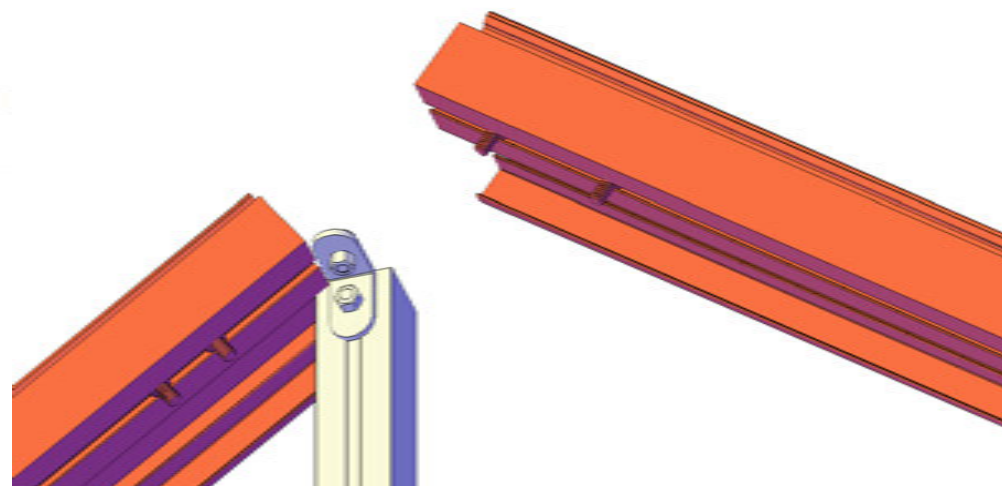


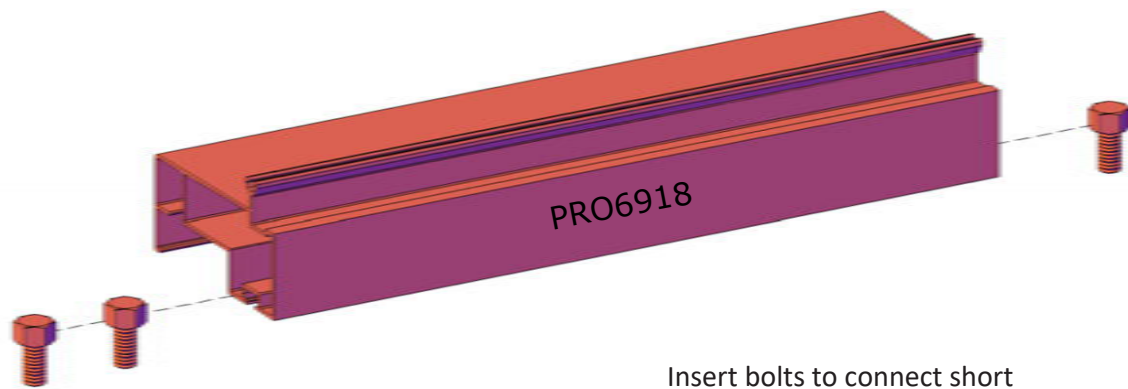




M6x12

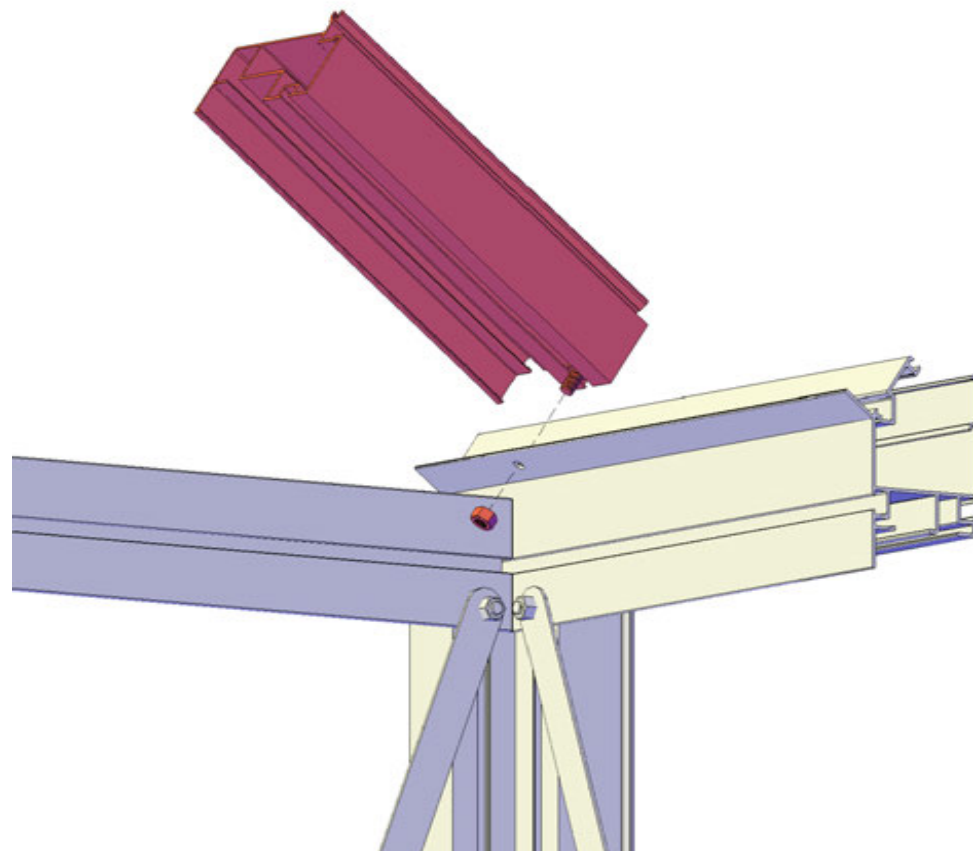
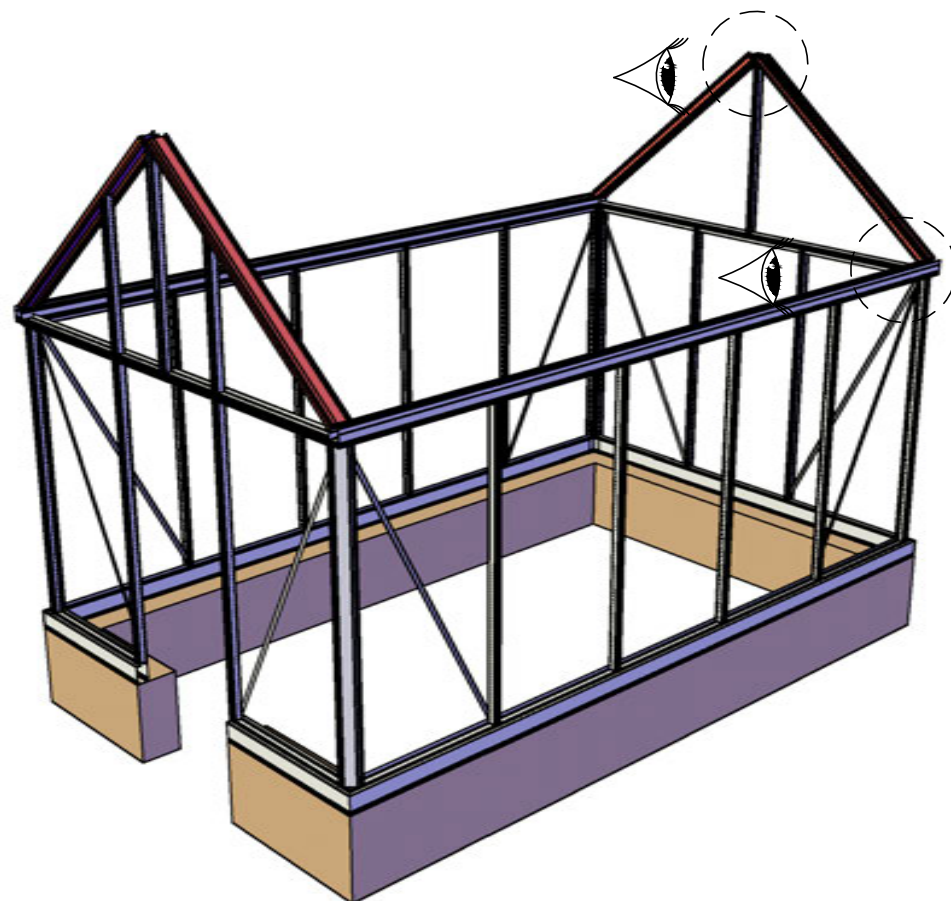
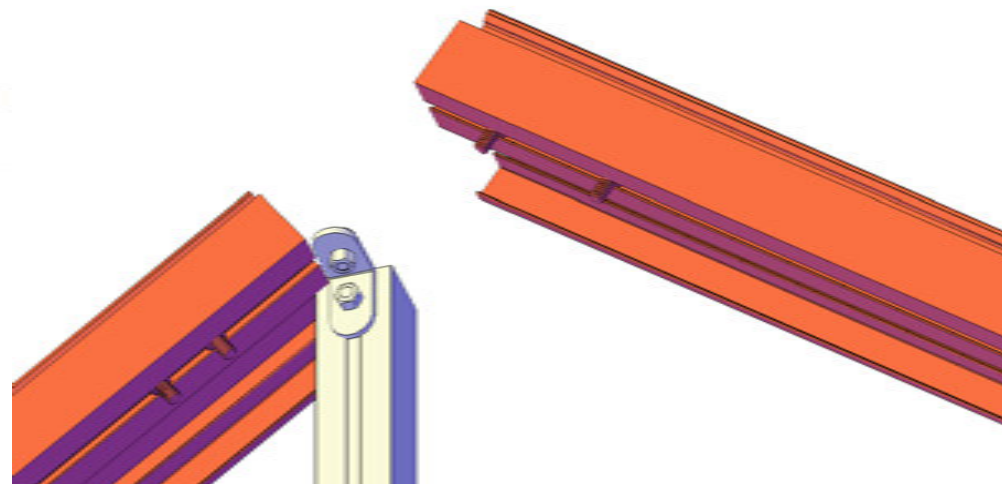
Insert bolts to connect short
uprights to the PRO6918. You will
need as many bolts as you have
short uprights.

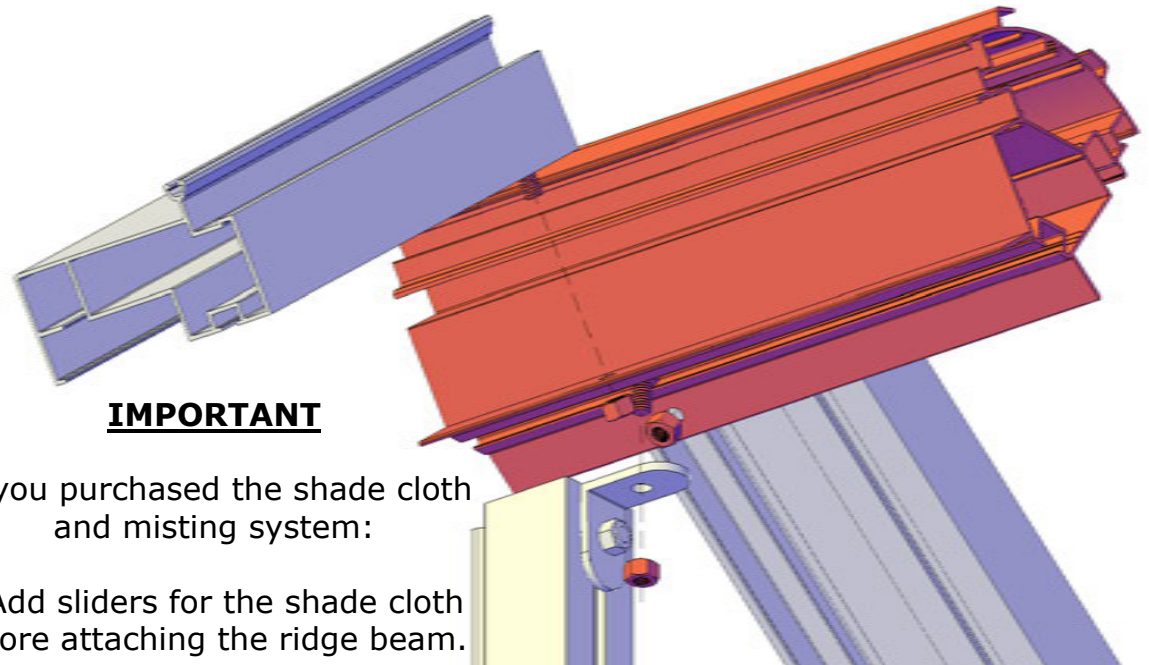
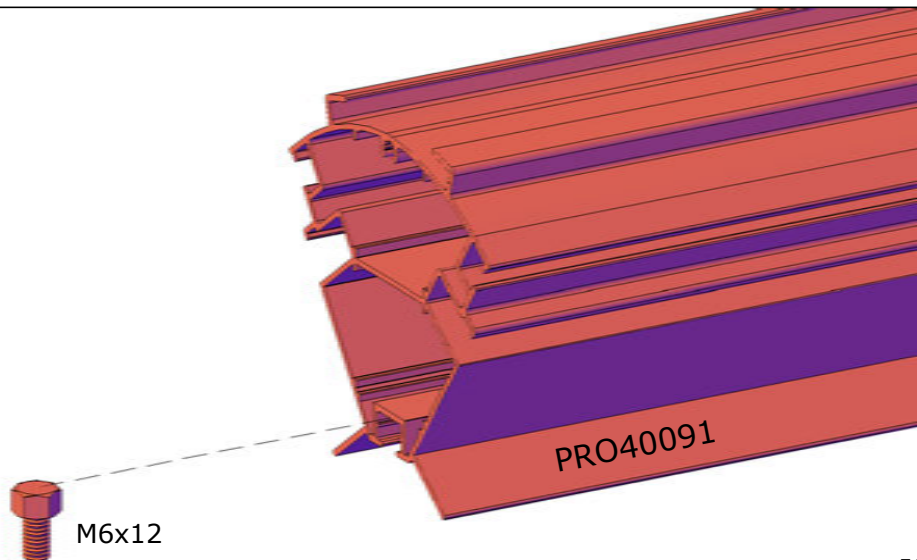




M6x12

Insert bolts to connect short uprights to the PRO6918. You will need as many bolts as you have short uprights.

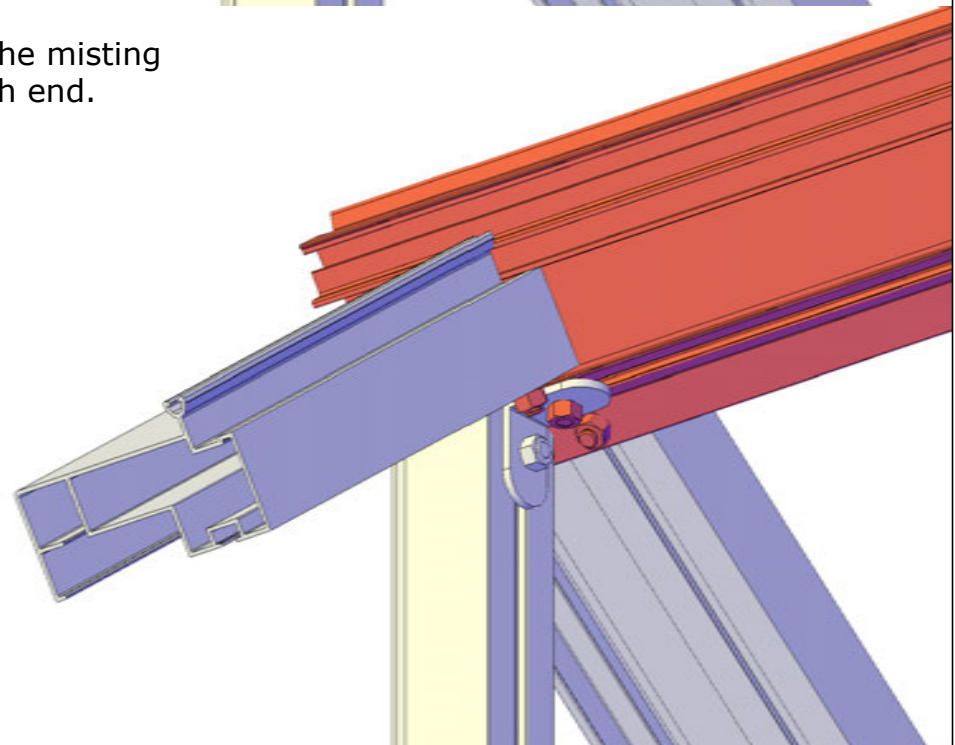
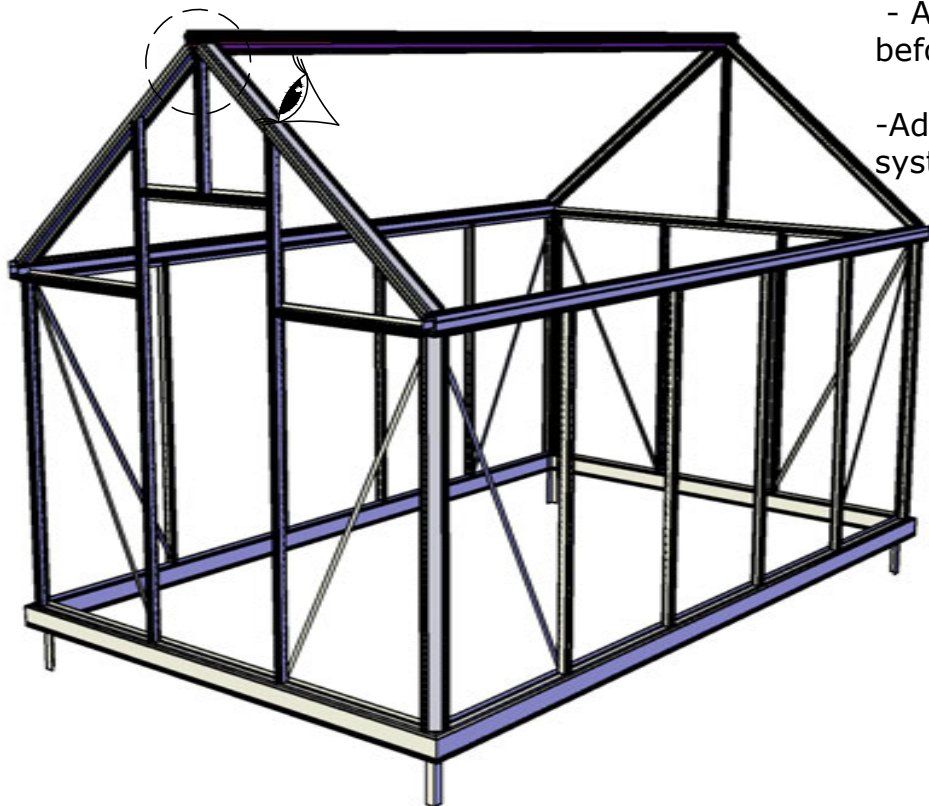


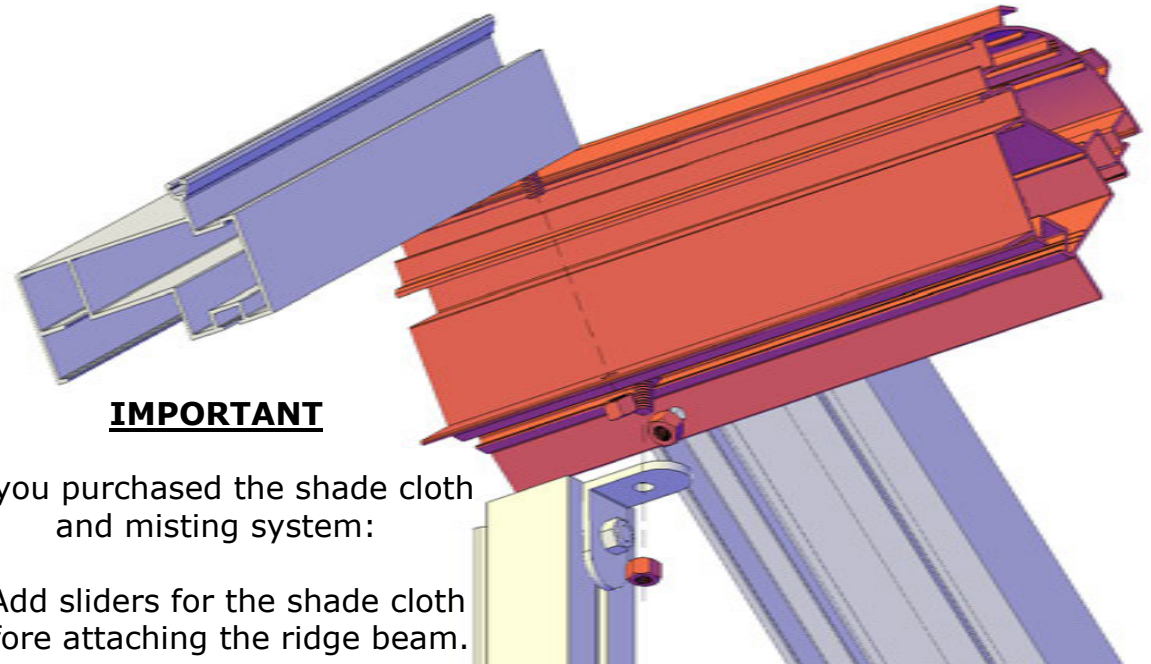
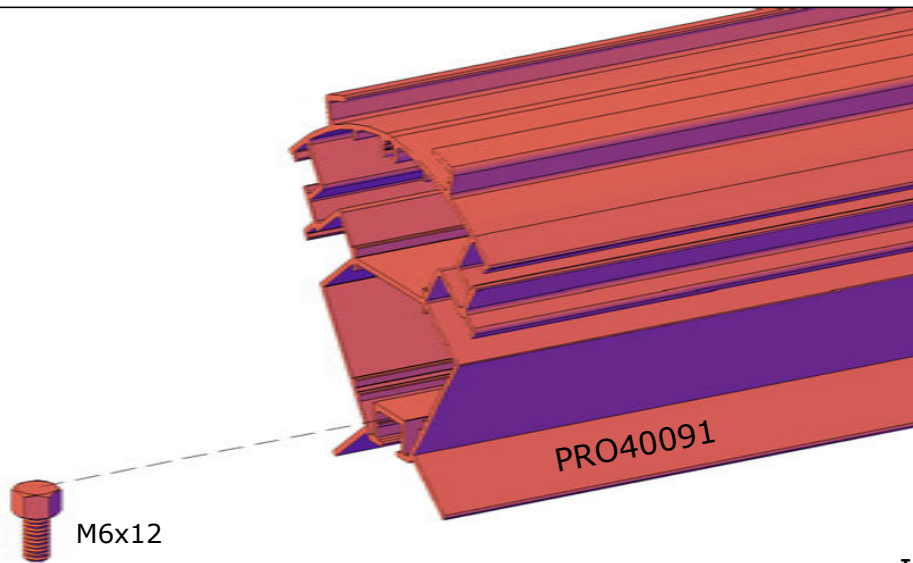


IMPORTANT

If you purchased the shade cloth and misting system:

- Add sliders for the shade cloth before attaching the ridge beam.
- Add (2) bolts for the misting system, (1) on each end.

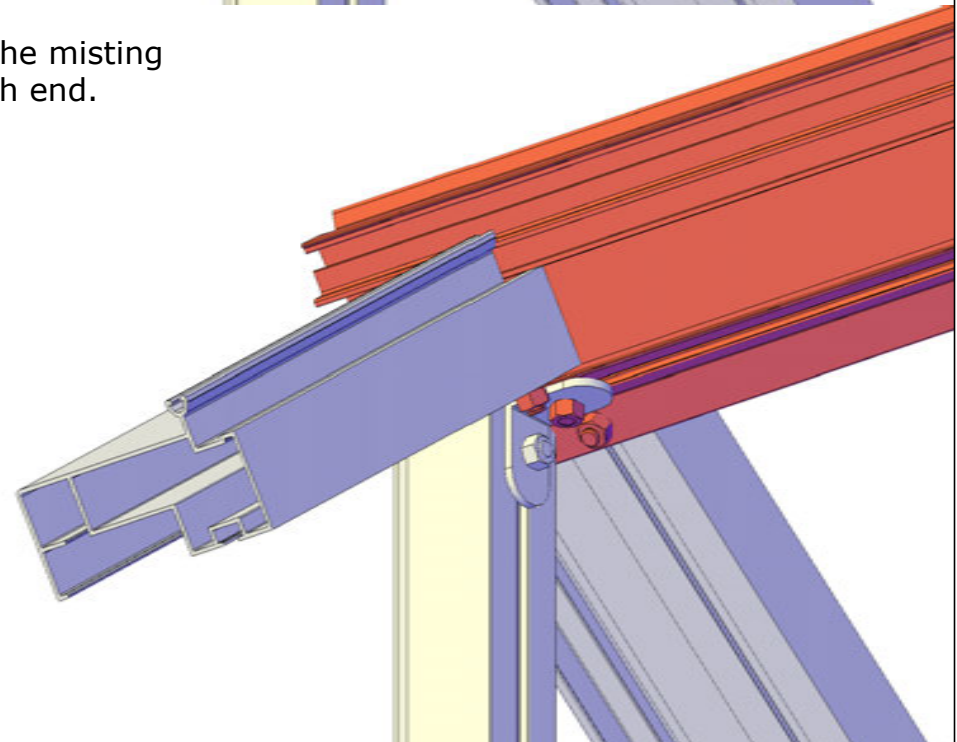
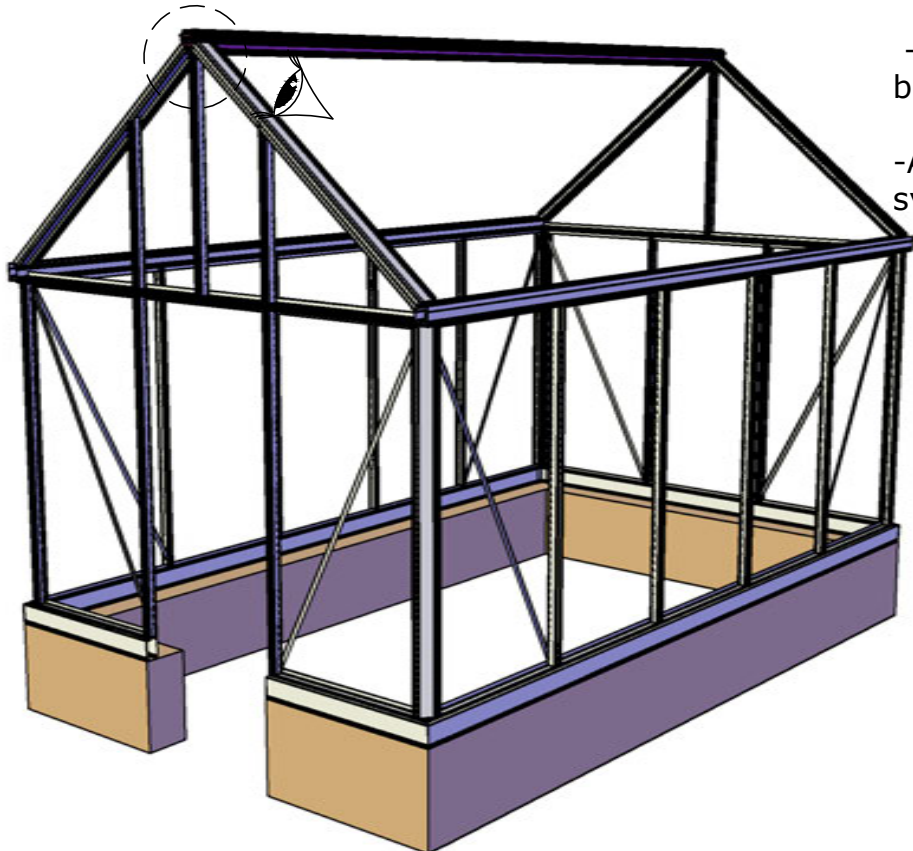




IMPORTANT

If you purchased the shade cloth and misting system:

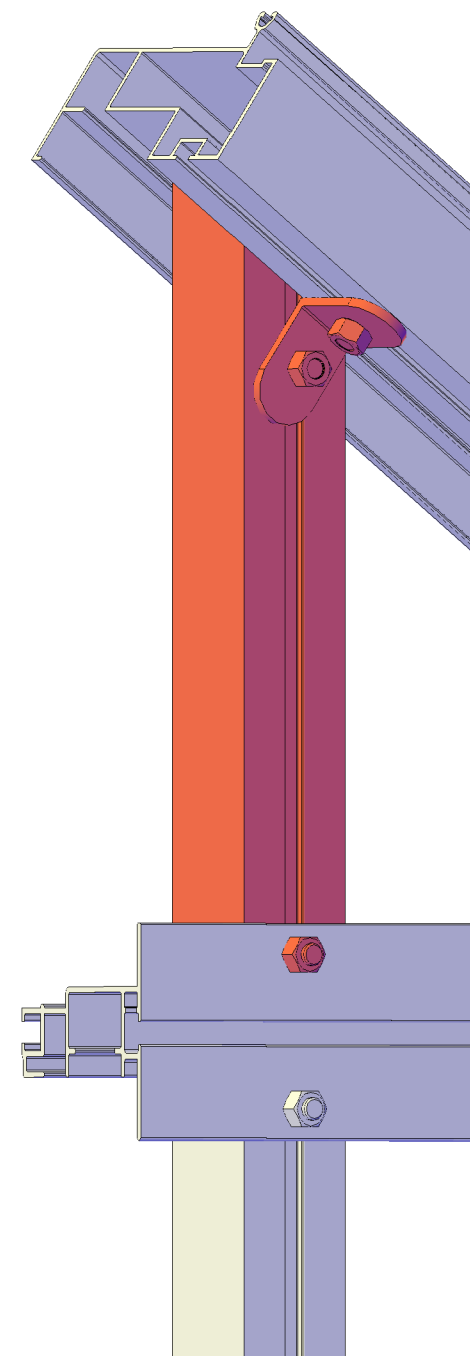
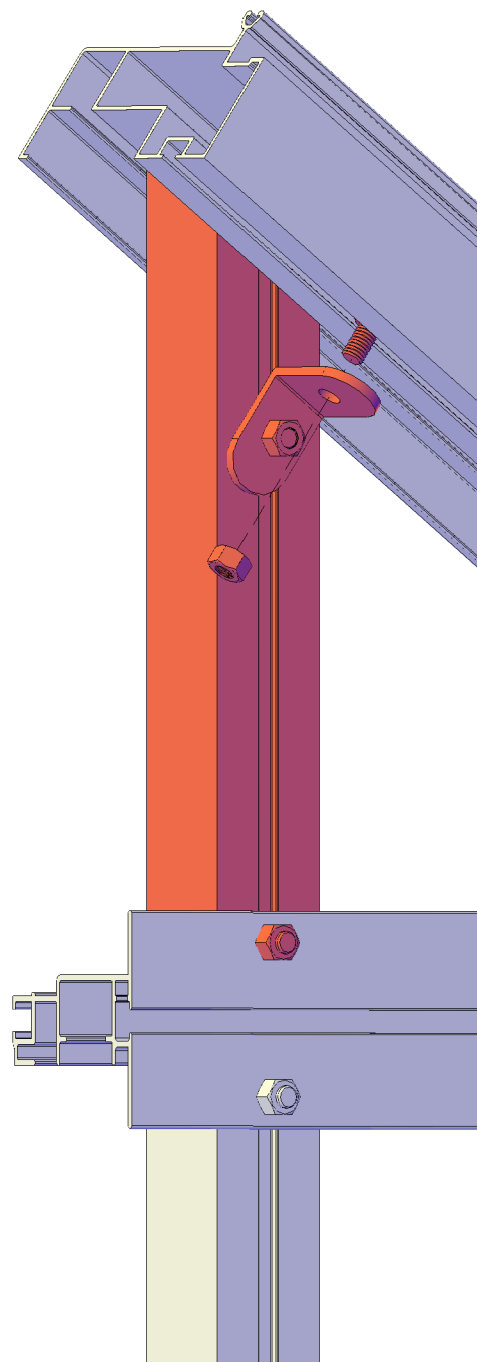
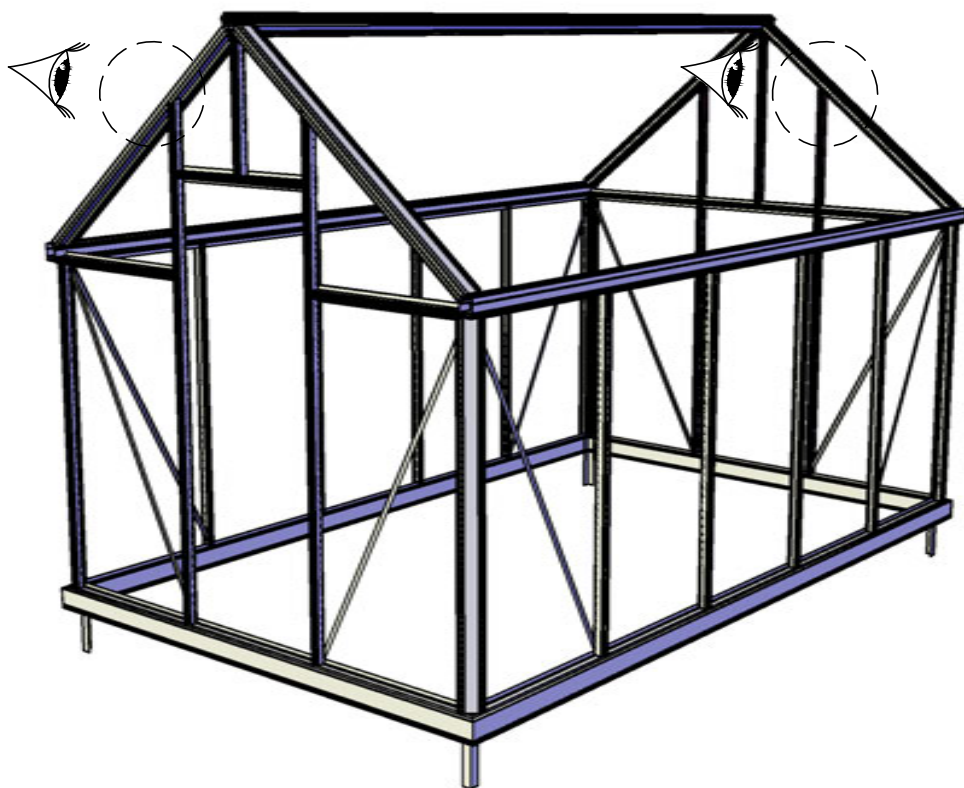
- Add sliders for the shade cloth before attaching the ridge beam.
- Add (2) bolts for the misting system, (1) on each end.



PRO1456

LG

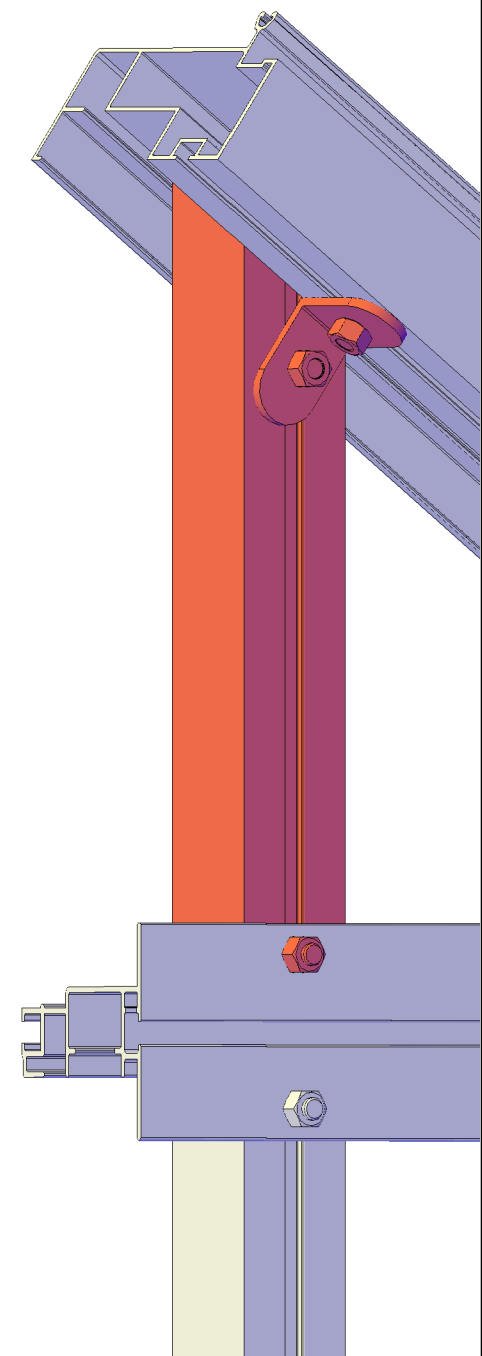
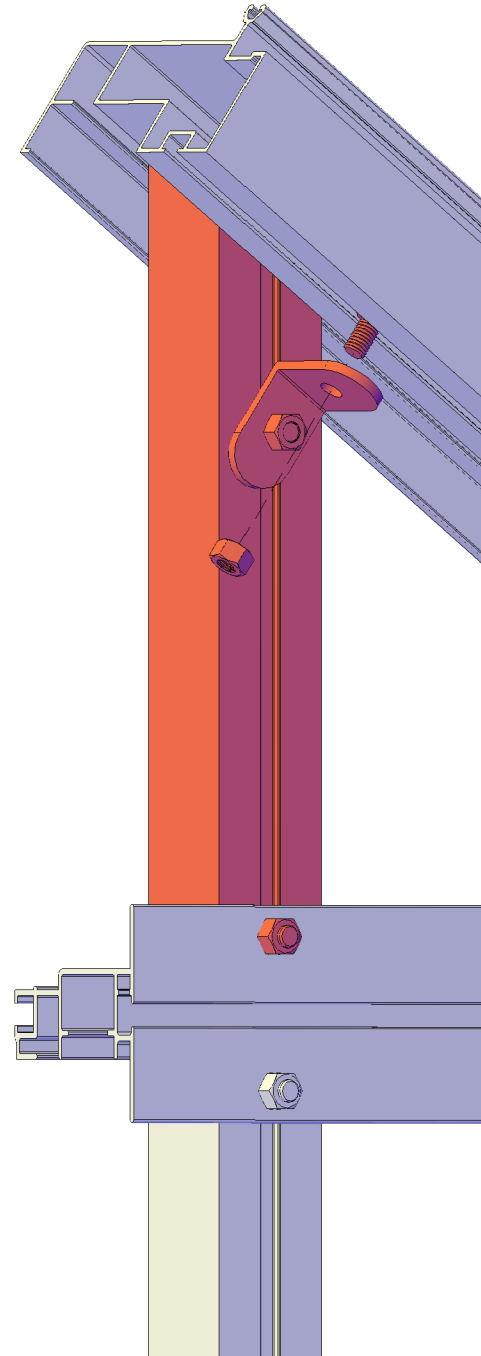
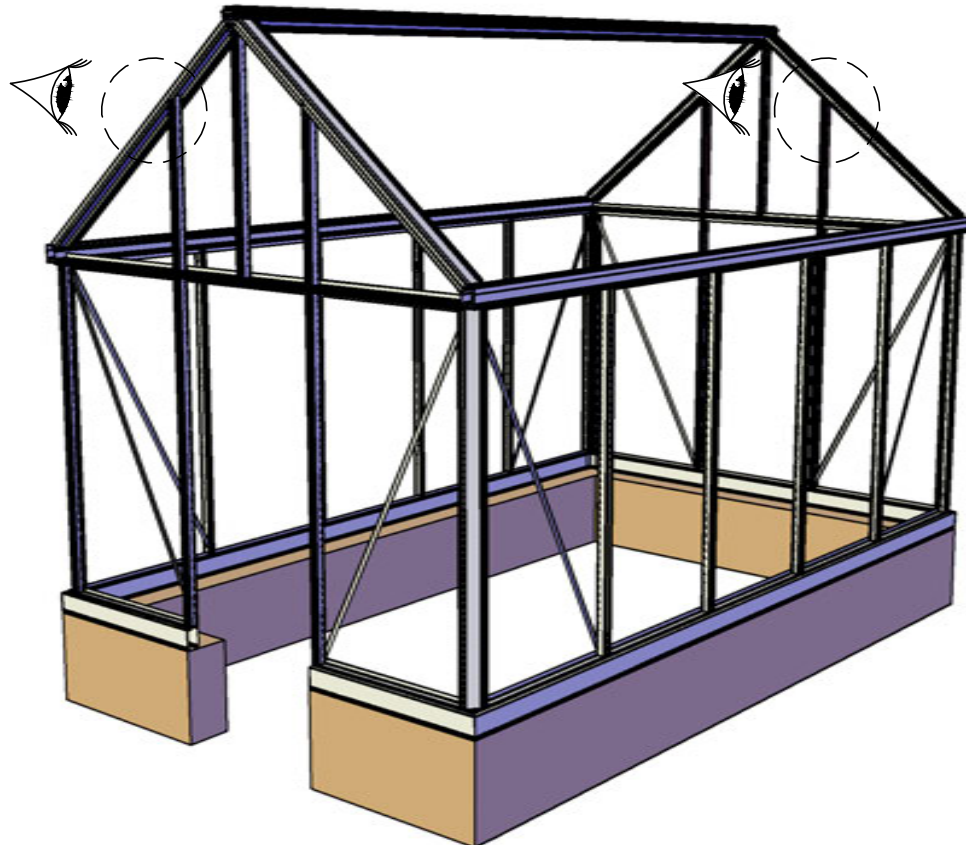
M6x12

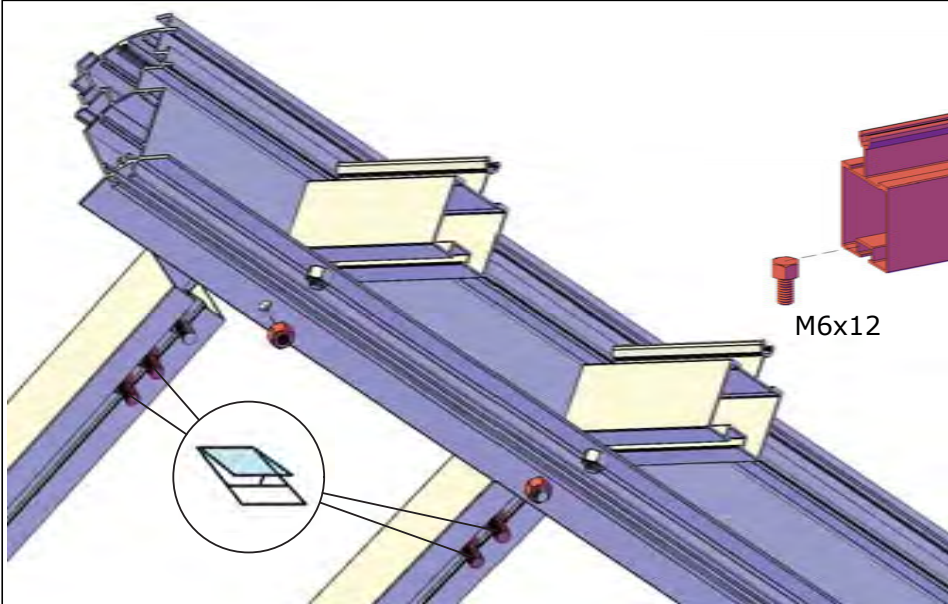


PRO1456

LG

M6x12





PRO1456

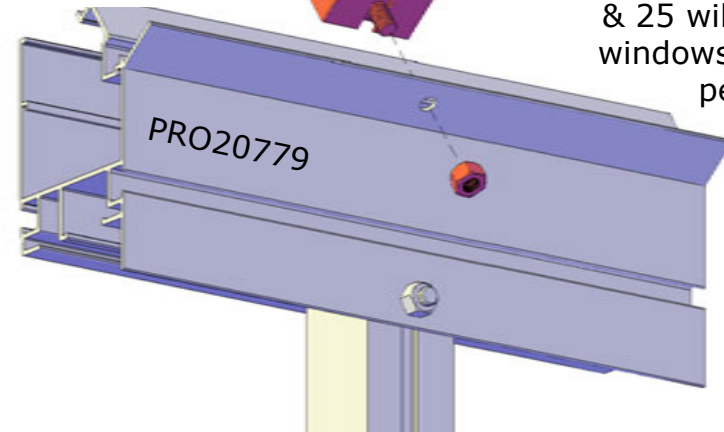
M6x12

M6x12

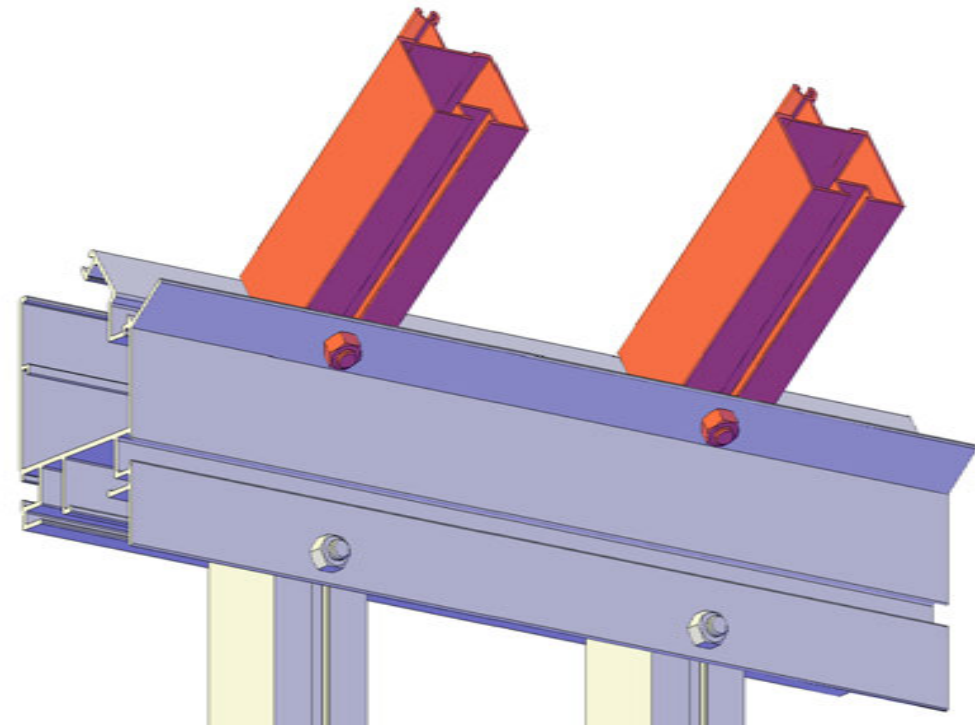
Important

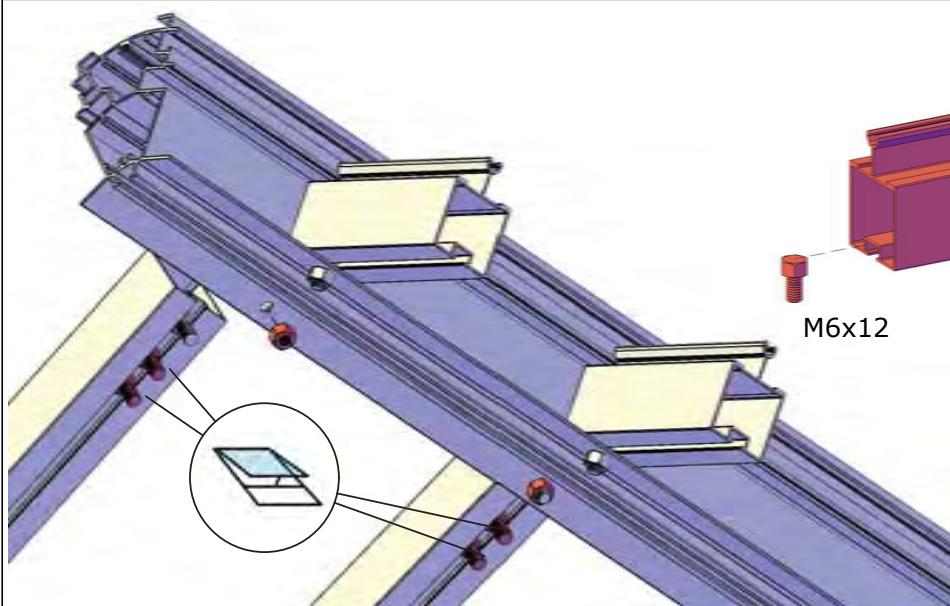
You will need to add bolts in the rafters for the roof vent crossbar. J-Vic23 will have (1) roof window. J-Vic 24 & 25 will have (2) roof windows. Add (2) bolts per rafter.

Roof vents may be installed in any bay. They may not be placed side by side.



PRO20779





M6x12

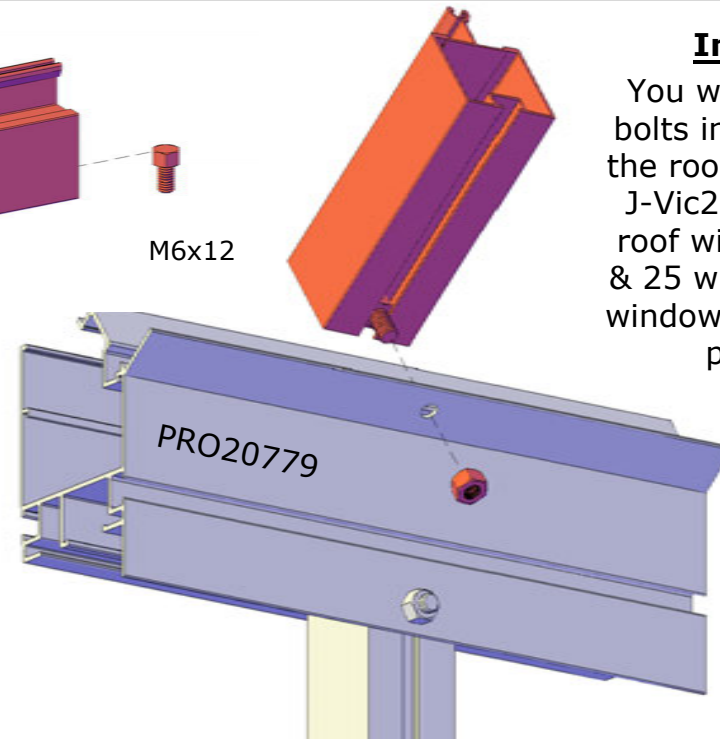
PRO1456

M6x12

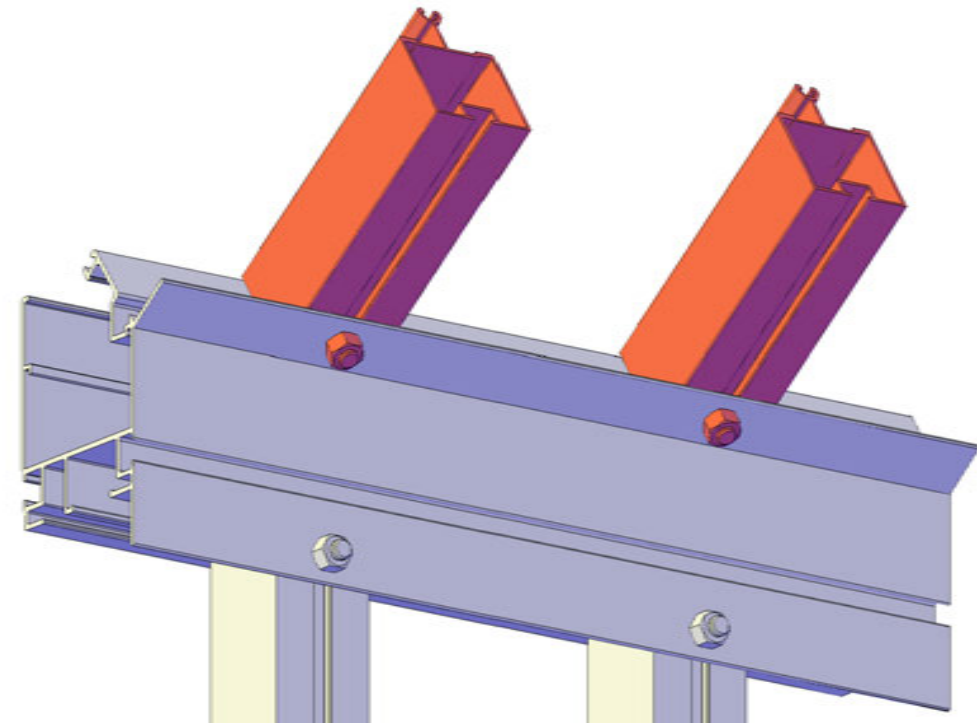
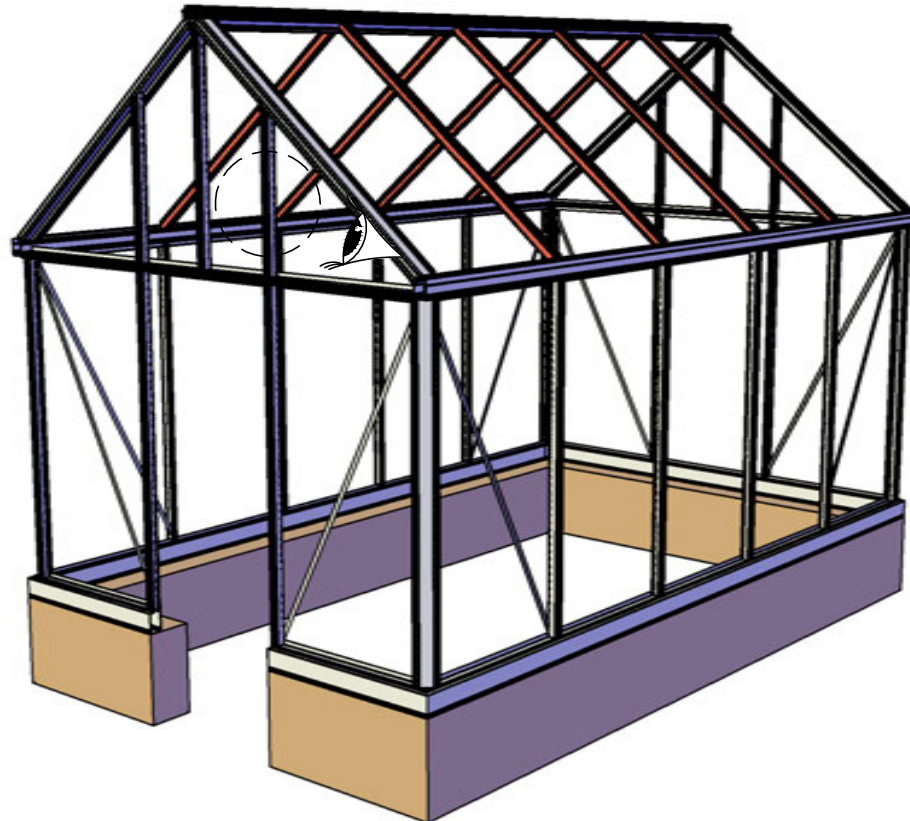
Important

You will need to add bolts in the rafters for the roof vent crossbar. J-Vic23 will have (1) roof window. J-Vic 24 & 25 will have (2) roof windows. Add (2) bolts per rafter.

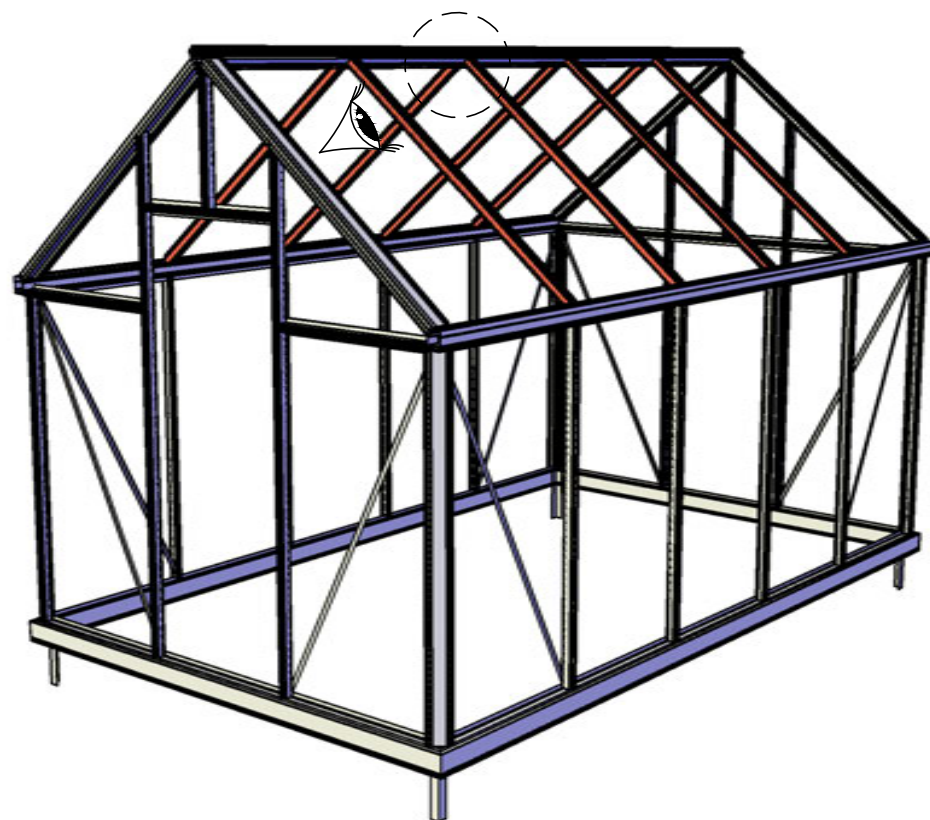
Roof vents may be installed in any bay. They may not be placed side by side.



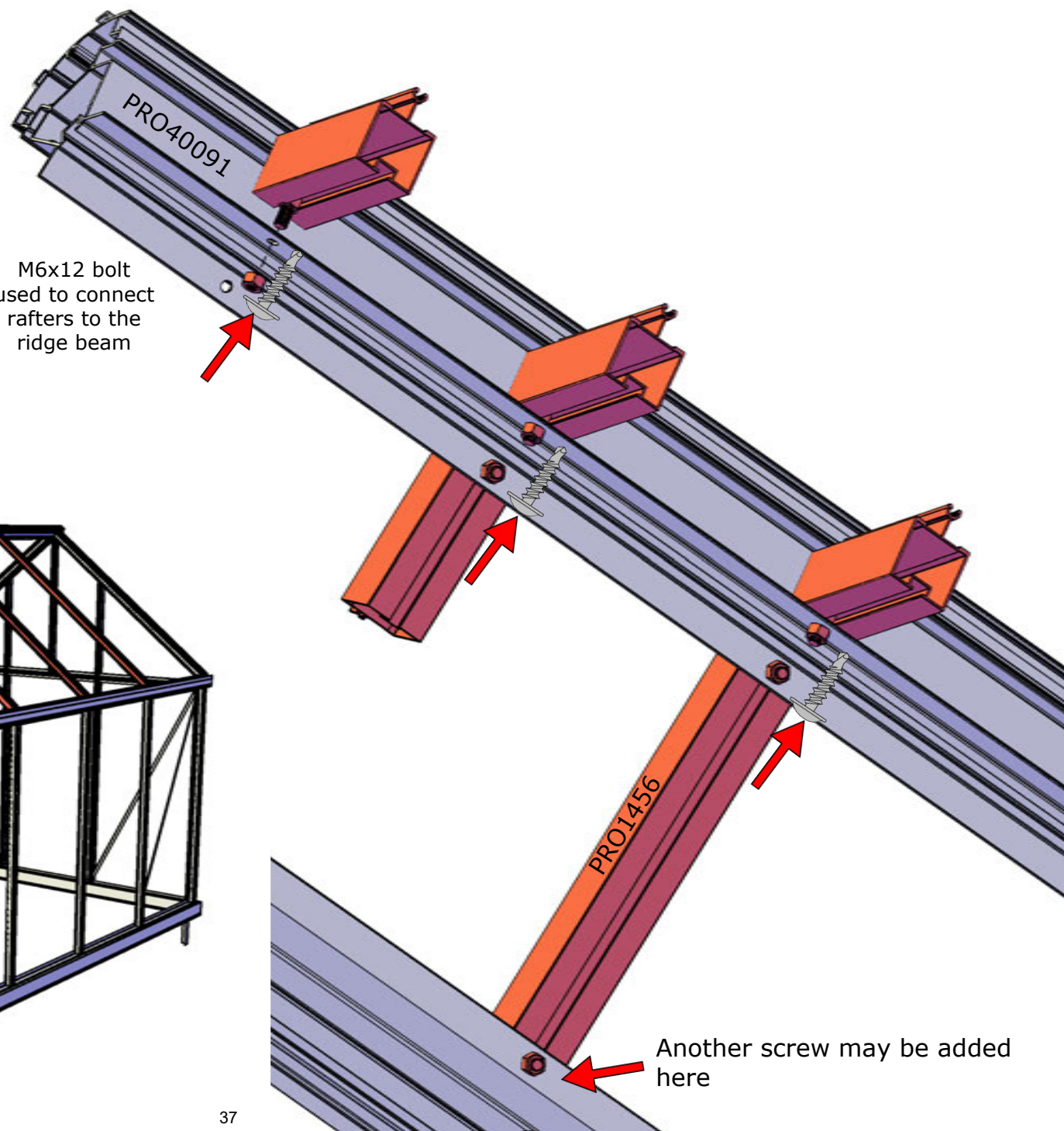
PRO20779



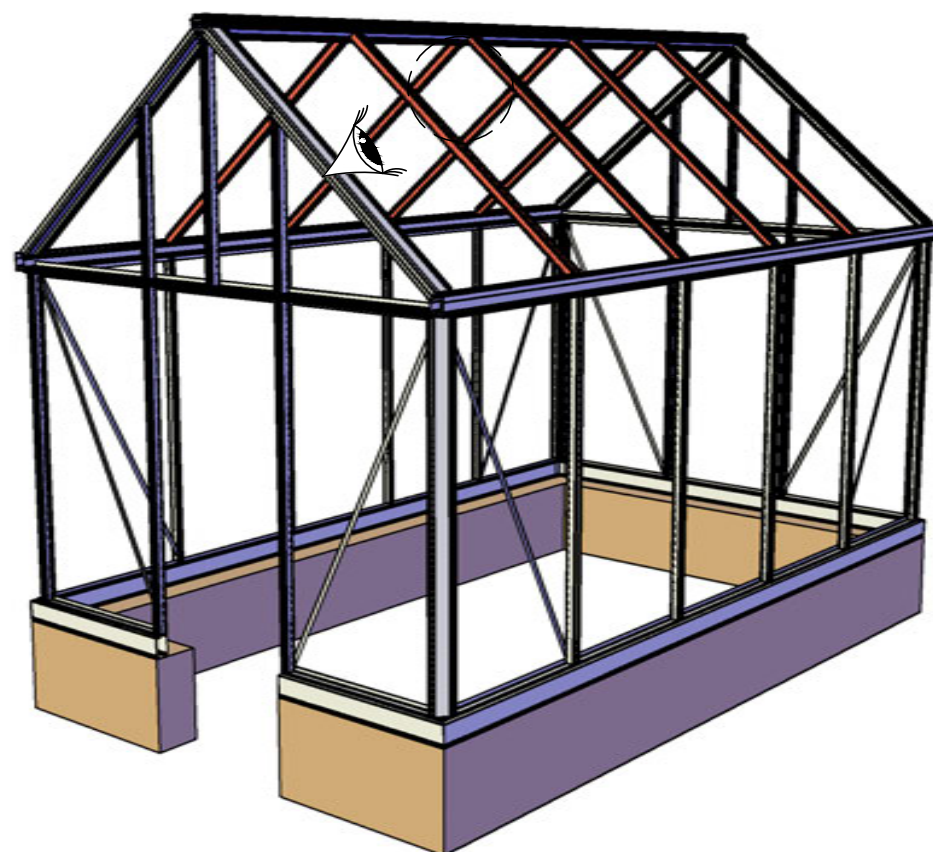
For additional support in heavy snow area, you may add stainless self-tapping screws (Not included) next to the bolts where the rafter meets the ridge and gutter.



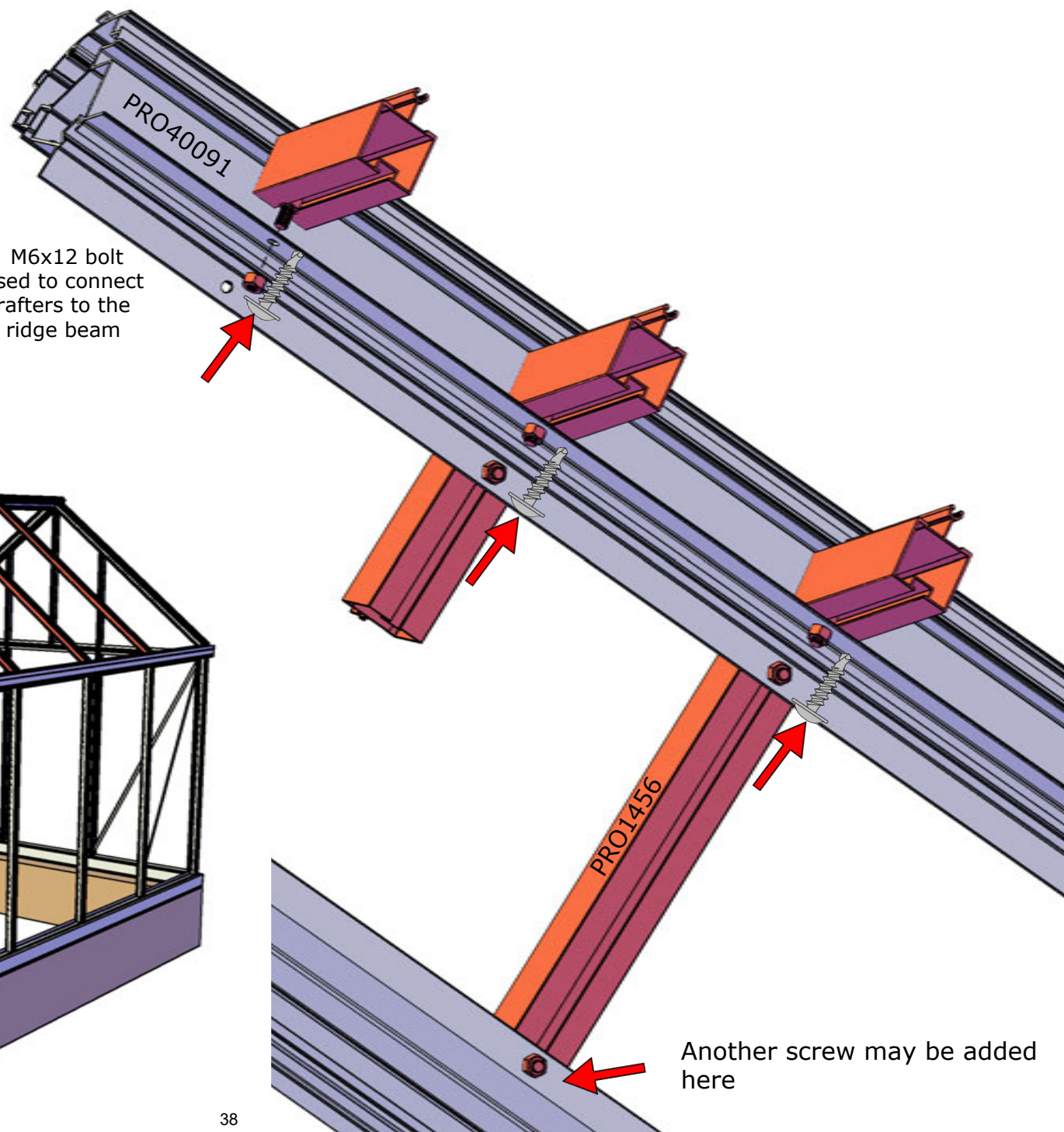
M6x12 bolt
used to connect
rafters to the
ridge beam



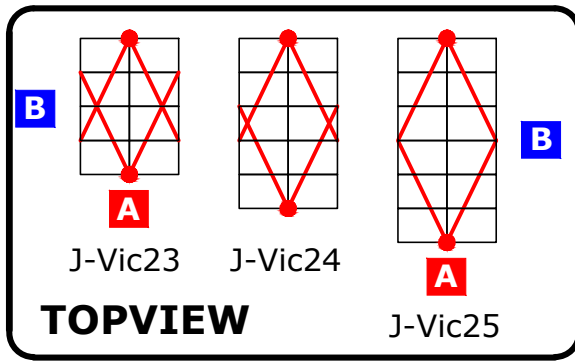
For additional support in heavy snow area, you may add stainless self-tapping screws (Not included) next to the bolts where the rafter meets the ridge and gutter.



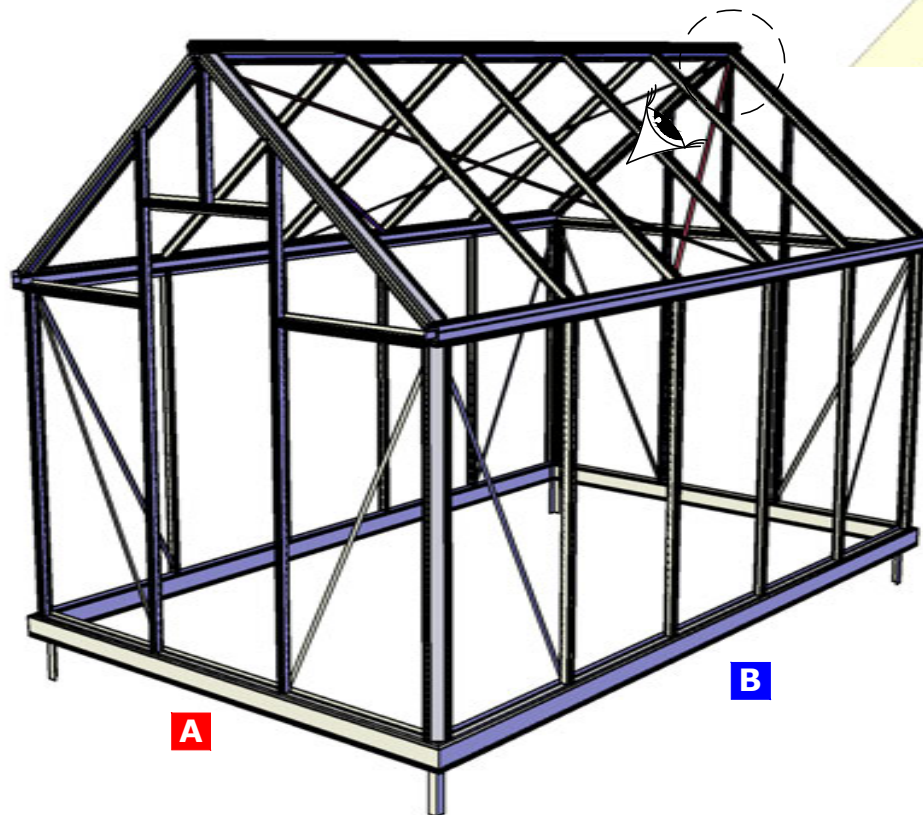
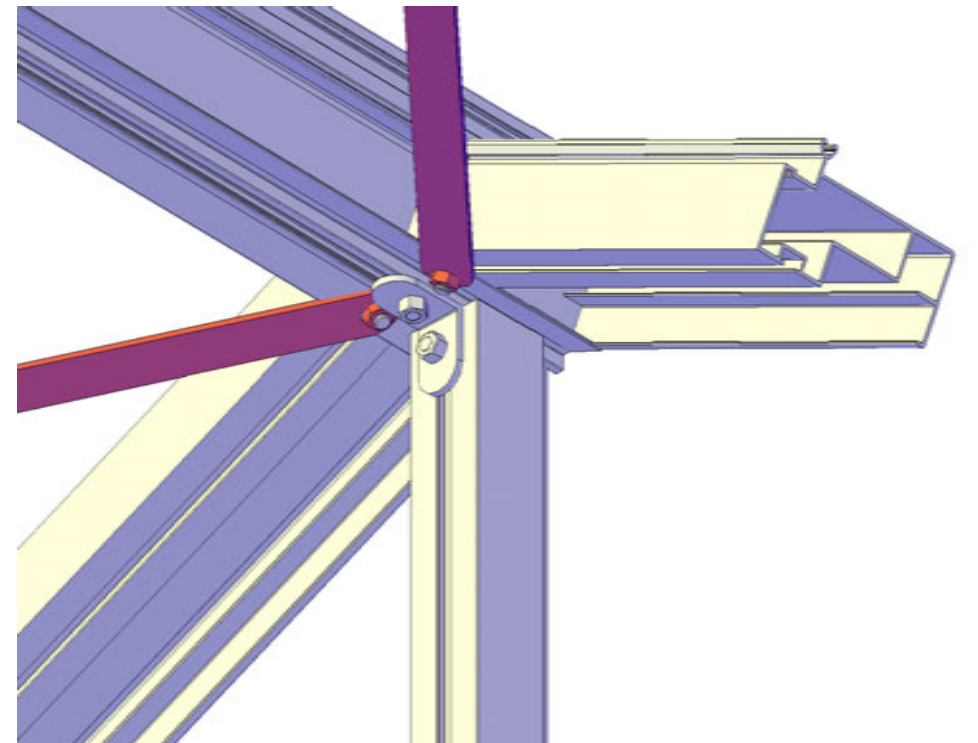
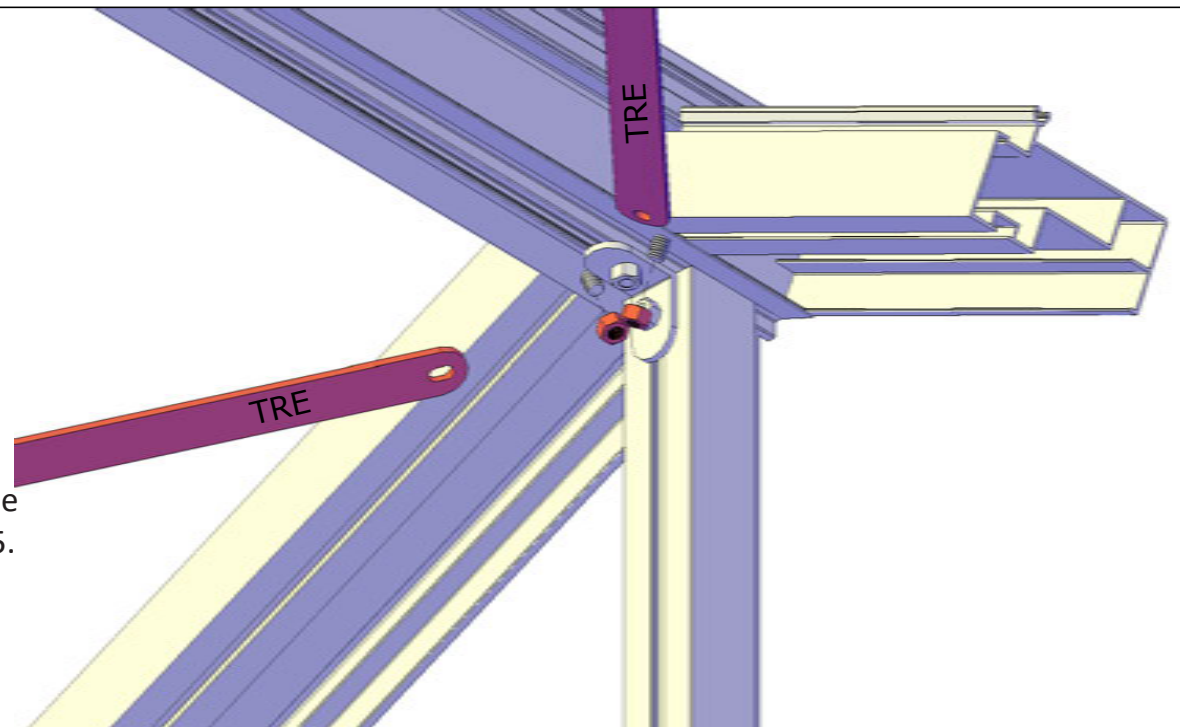
M6x12 bolt
used to connect
rafters to the
ridge beam

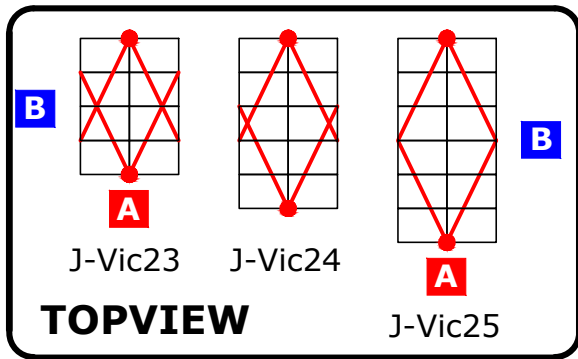


Another screw may be added
here

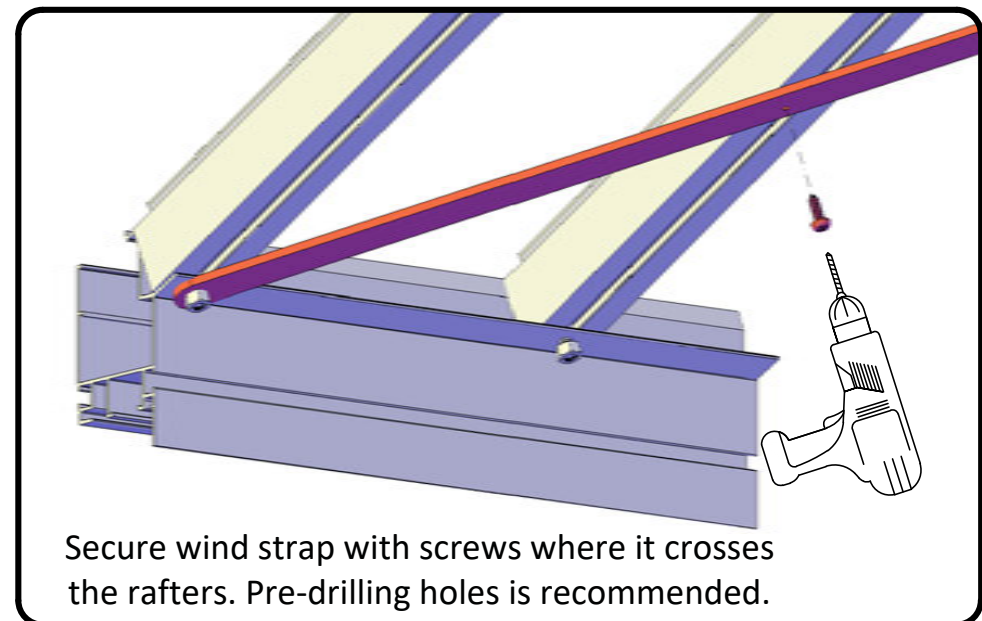
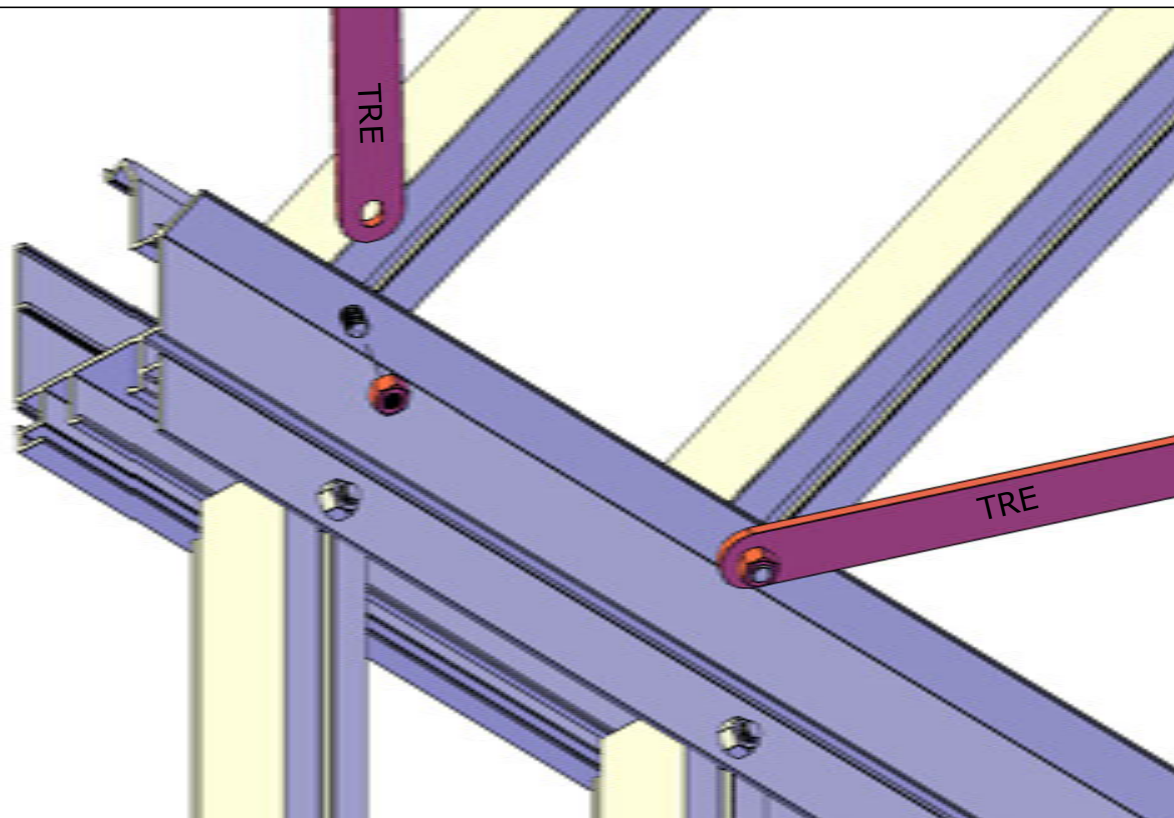
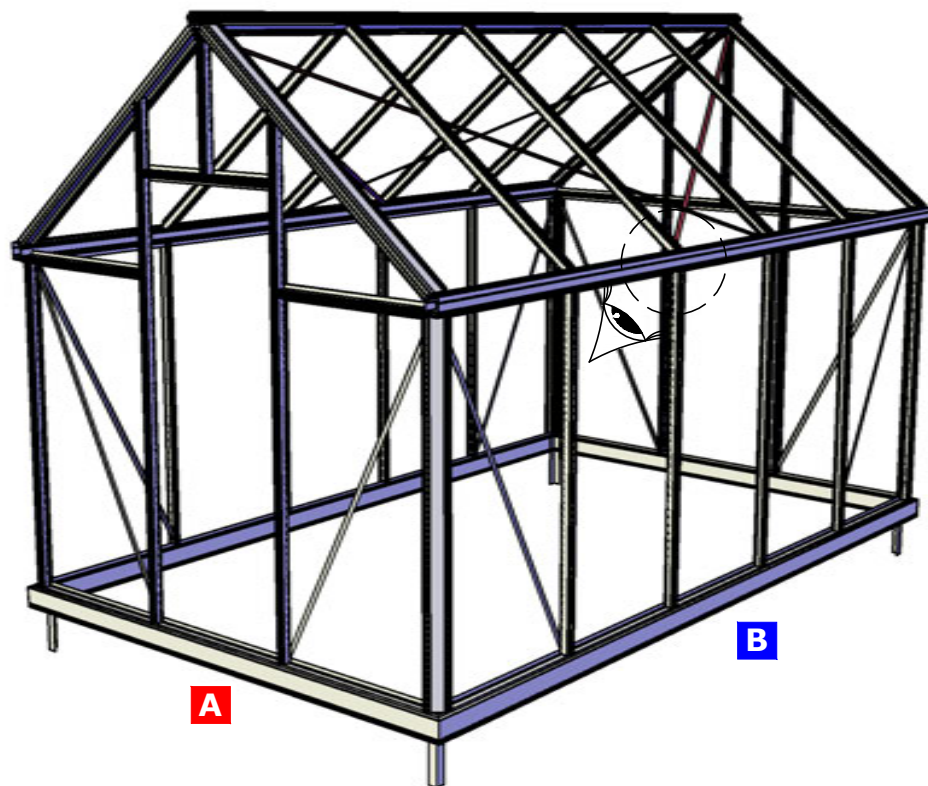


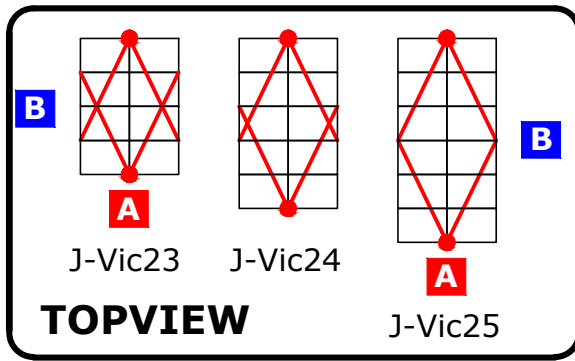
Placement of Roof Wind Braces (TRE) - View from above
 Attach at ridge beam first with 12mm bolts. Use 12mm bolts on the gutter for the J-Vic 23 & 24. Use a 16 or 20mm bolt for the J-Vic 25.



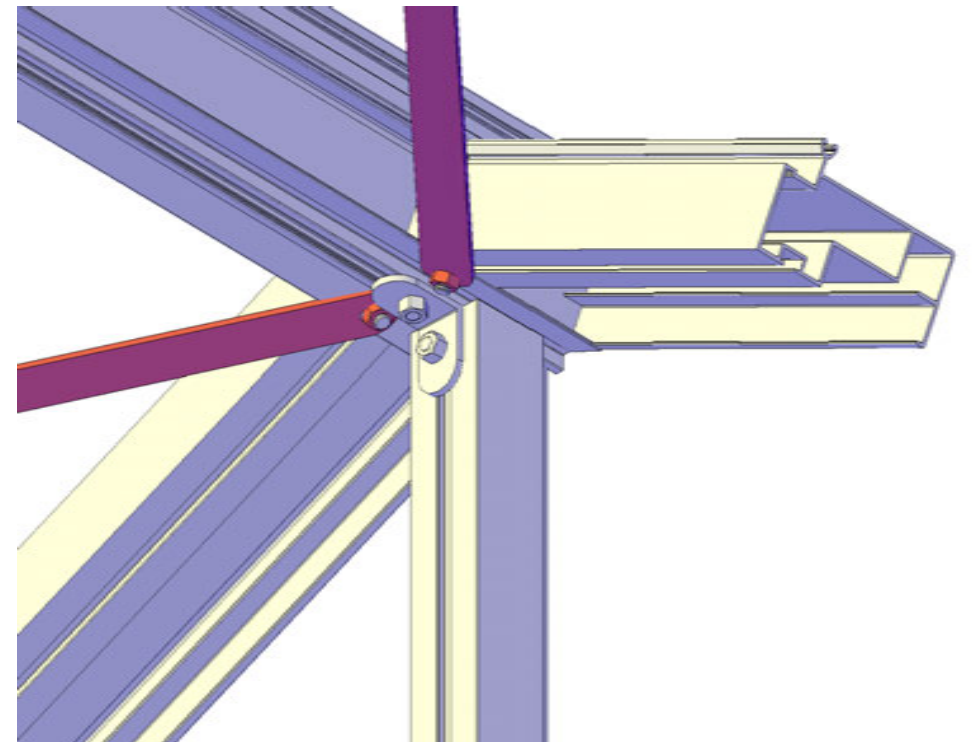
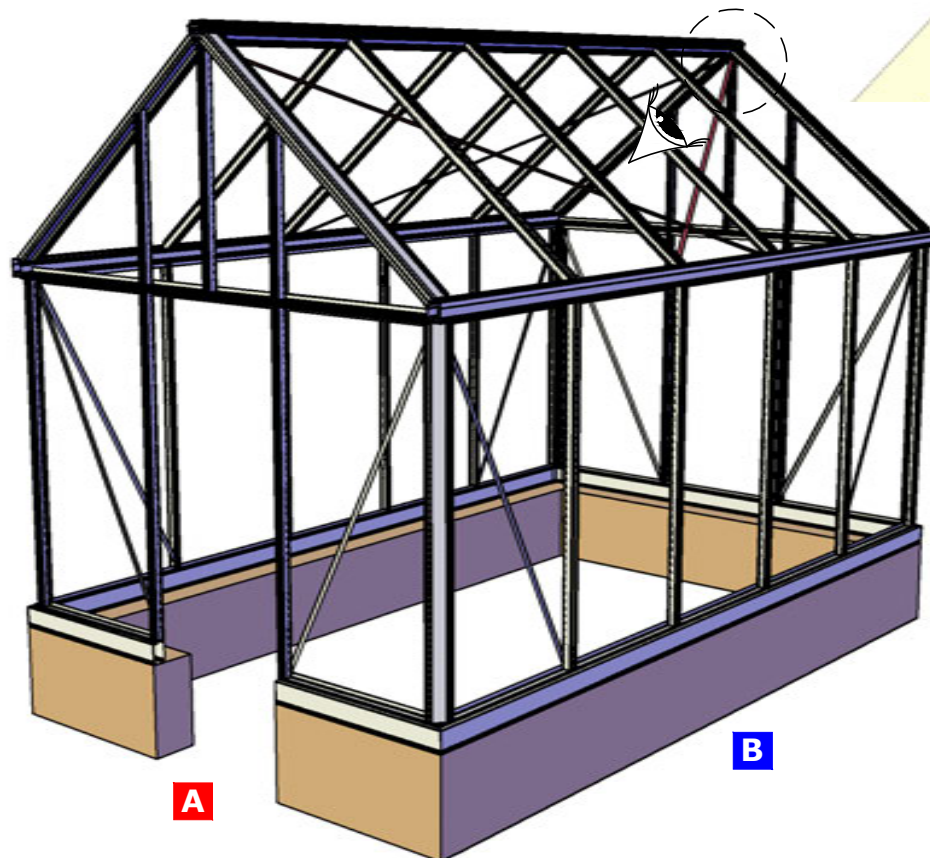
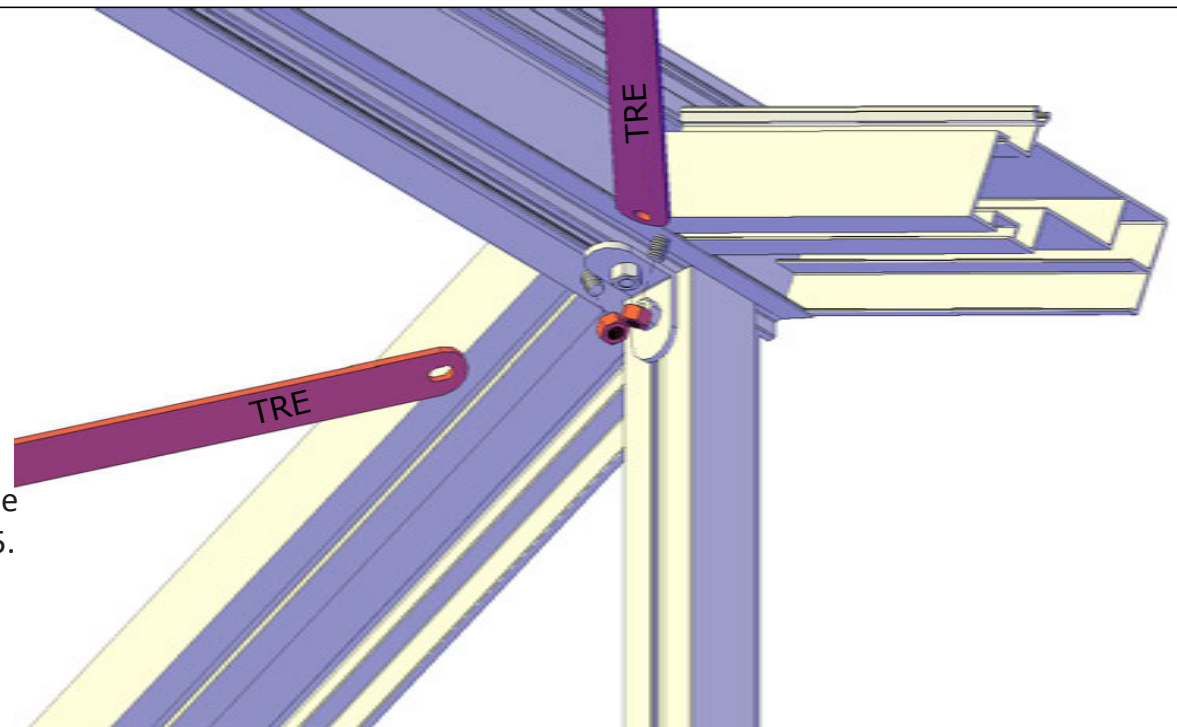


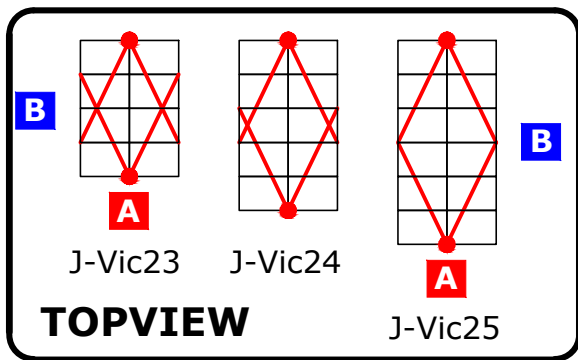
Placement of Roof Wind Braces (TRE) - View from above
 Attach at ridge beam first with 12mm bolts. Use 12mm bolts on the gutter for the J-Vic 23 & 24. Use a 16 or 20mm bolt for the J-Vic 25.



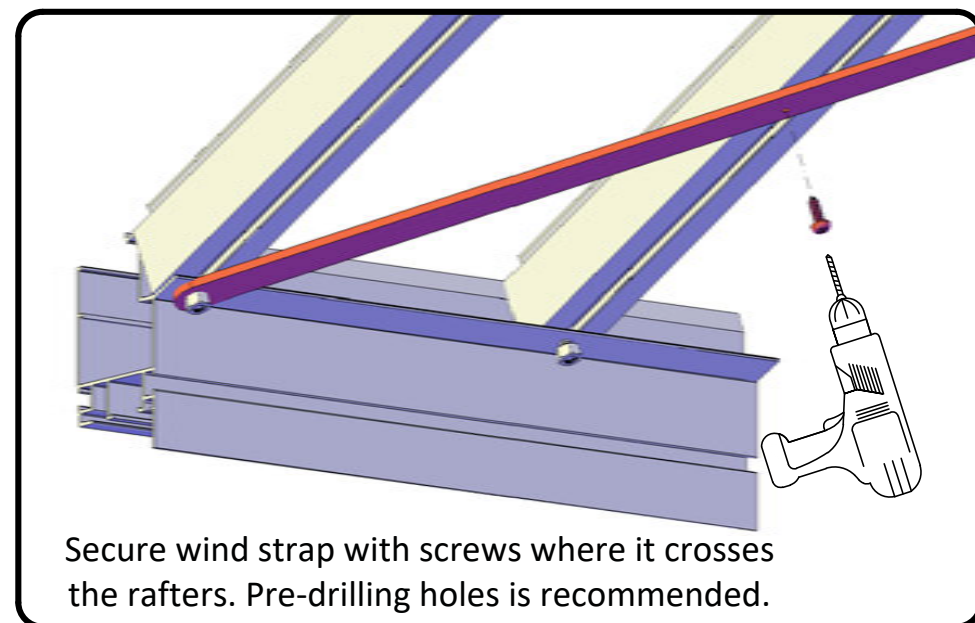
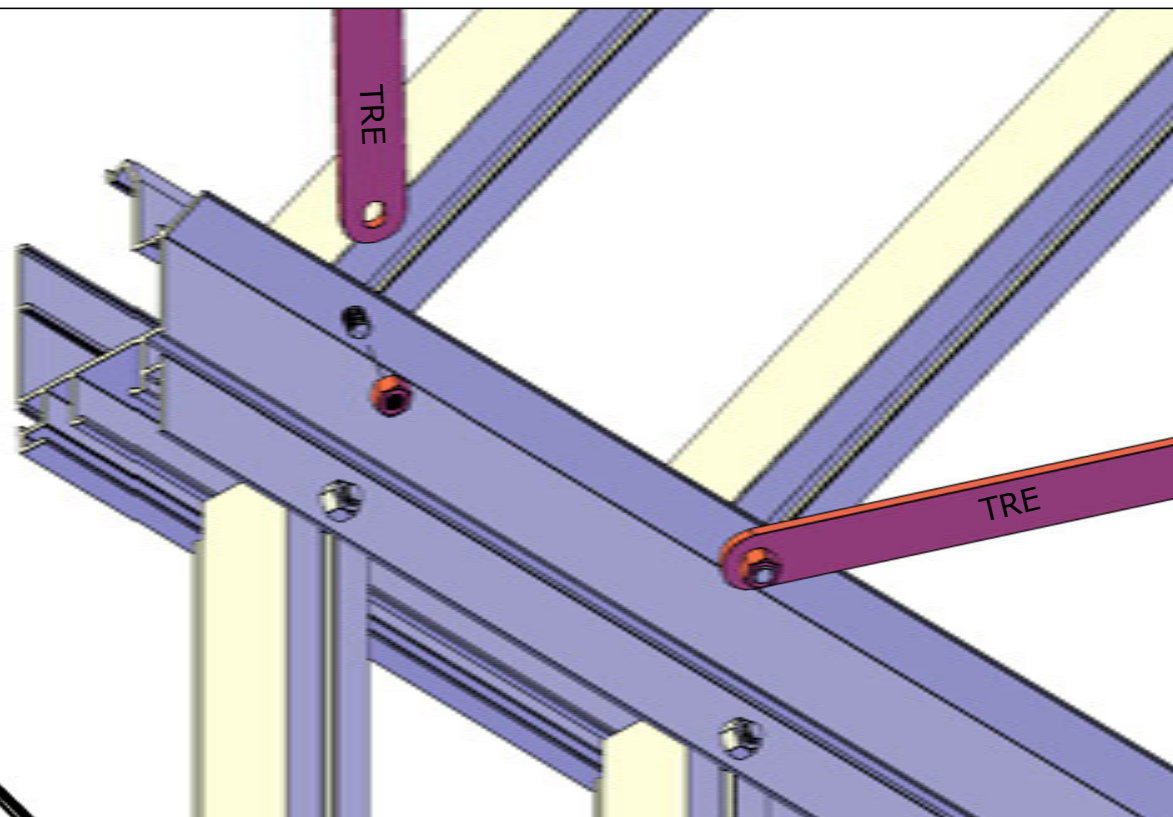
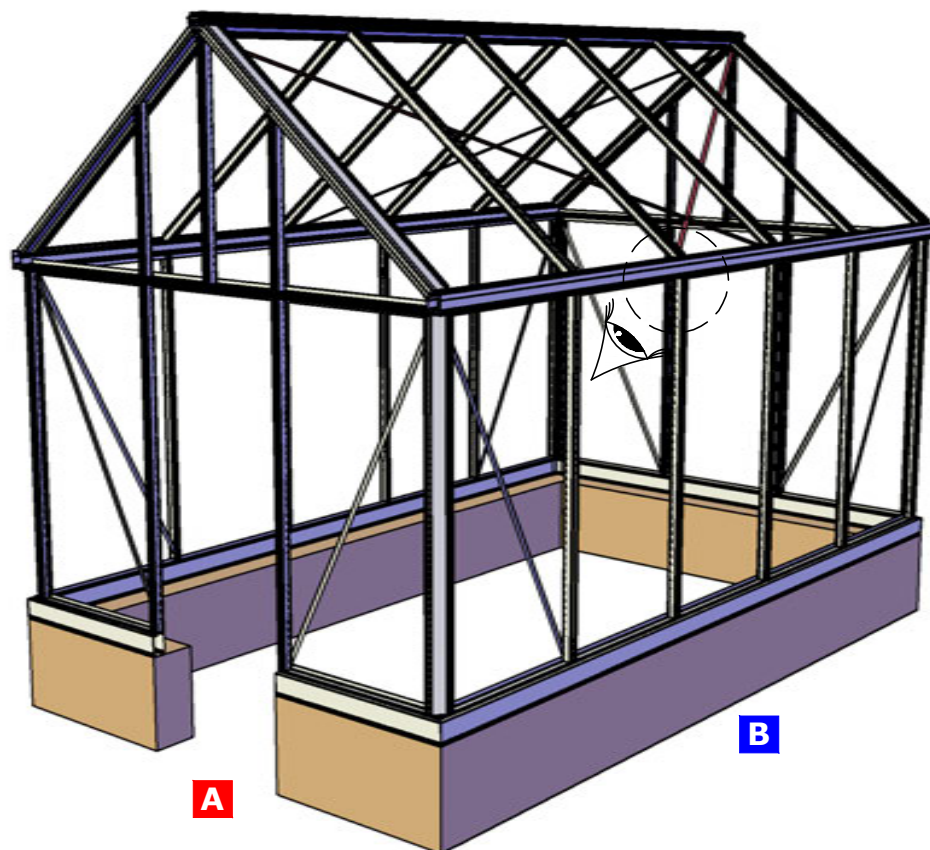


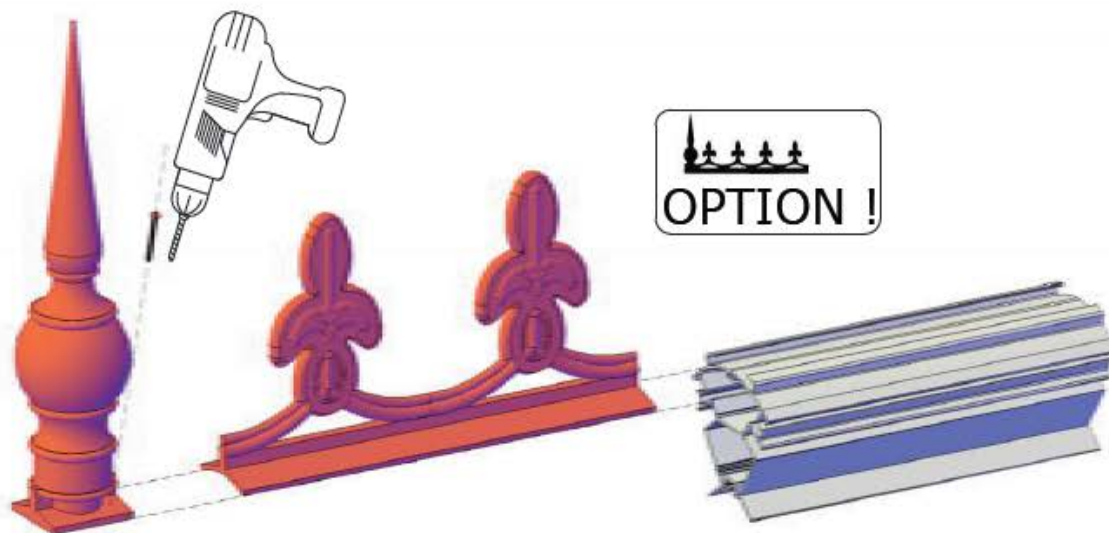
Placement of Roof Wind Braces (TRE) - View from above
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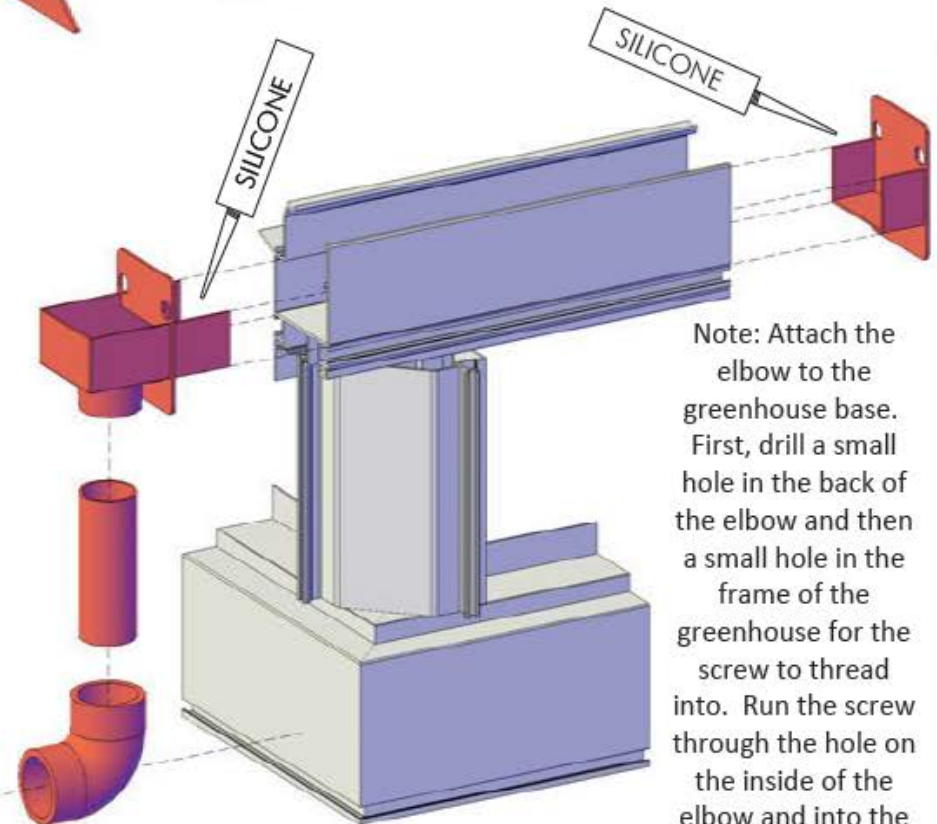
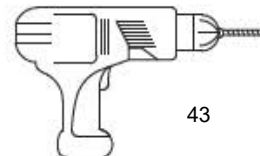
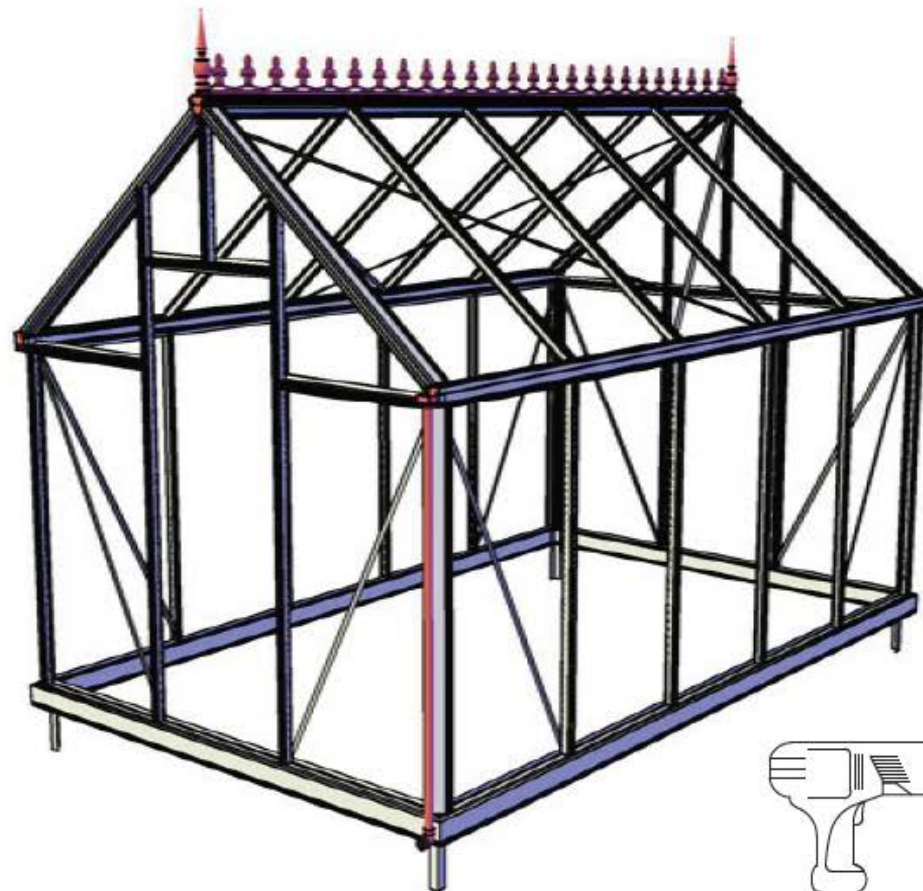
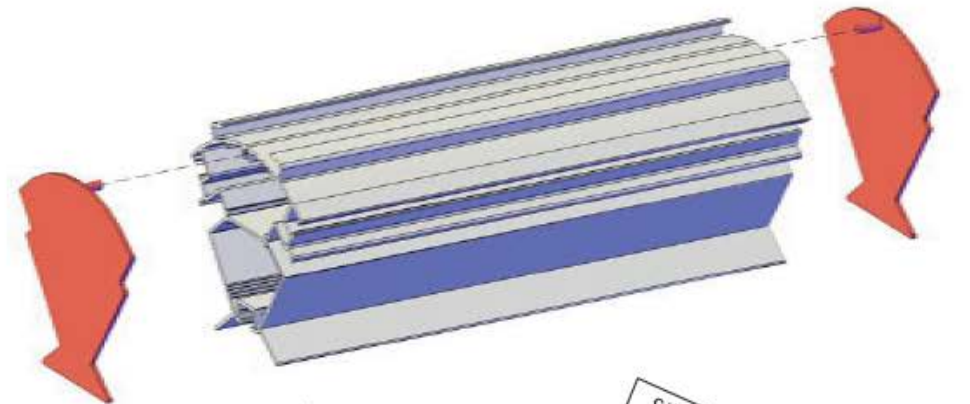


Placement of Roof Wind Braces (TRE) - View from above
 Attach at ridge beam first with 12mm bolts. Use 12mm bolts on the gutter for the J-Vic 23 & 24. Use a 16 or 20mm bolt for the J-Vic 25.

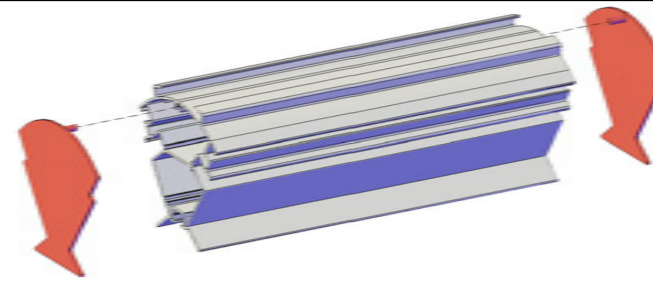
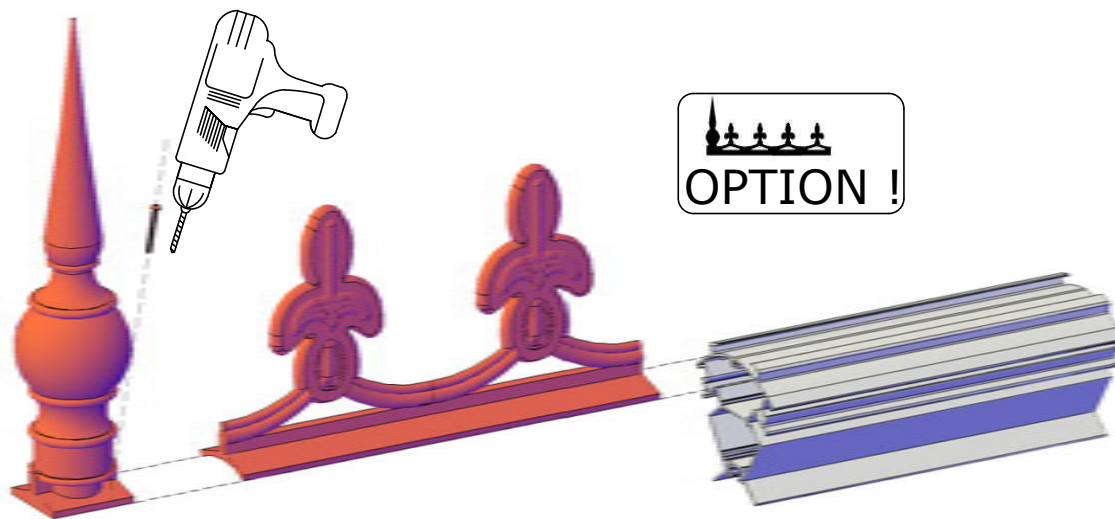




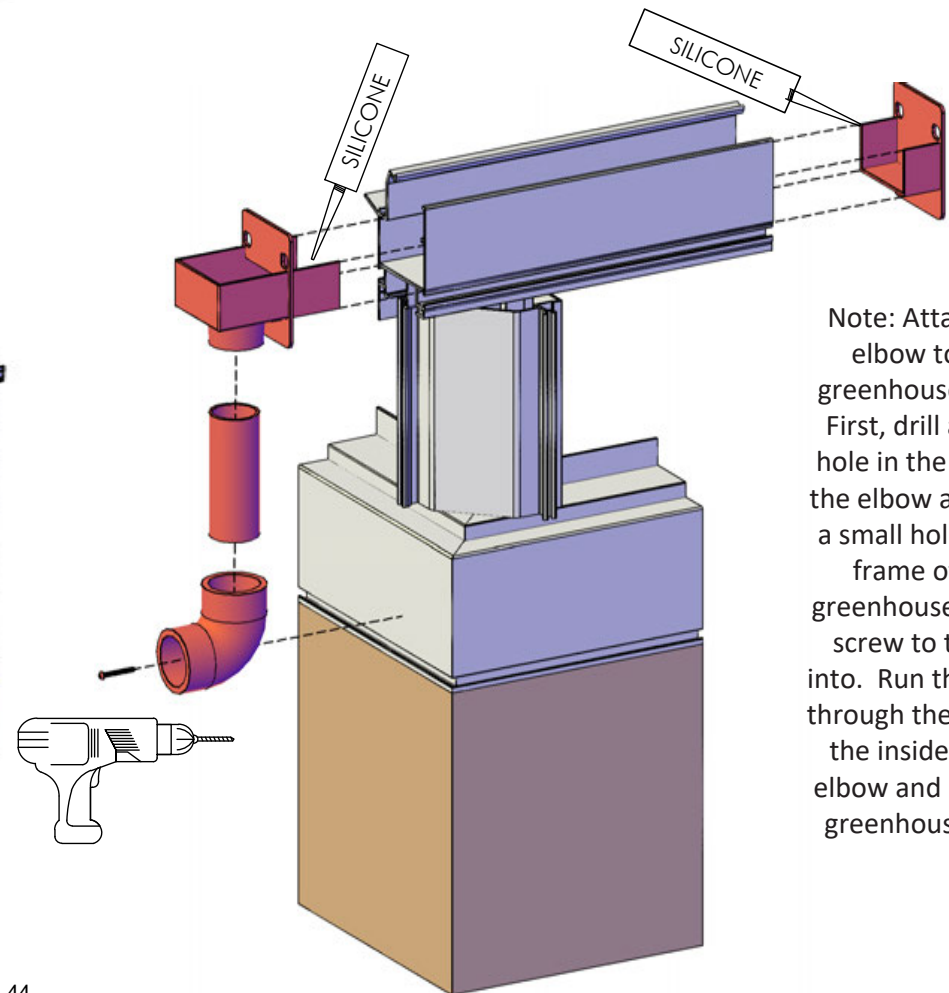
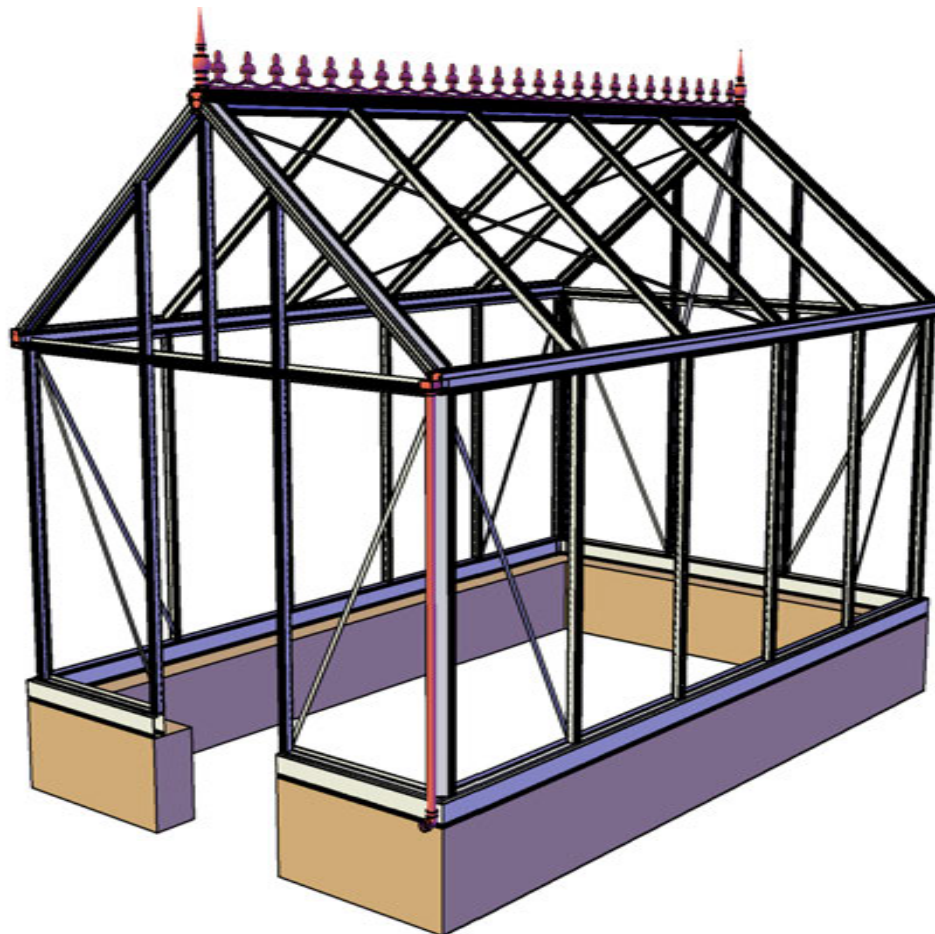
Roof decorations may be installed at this point or after glazing is installed if desired. It may be easier to install glazing gaskets if the roof decoration is installed at the very end. Roof decorations are optional and may be omitted if desired.



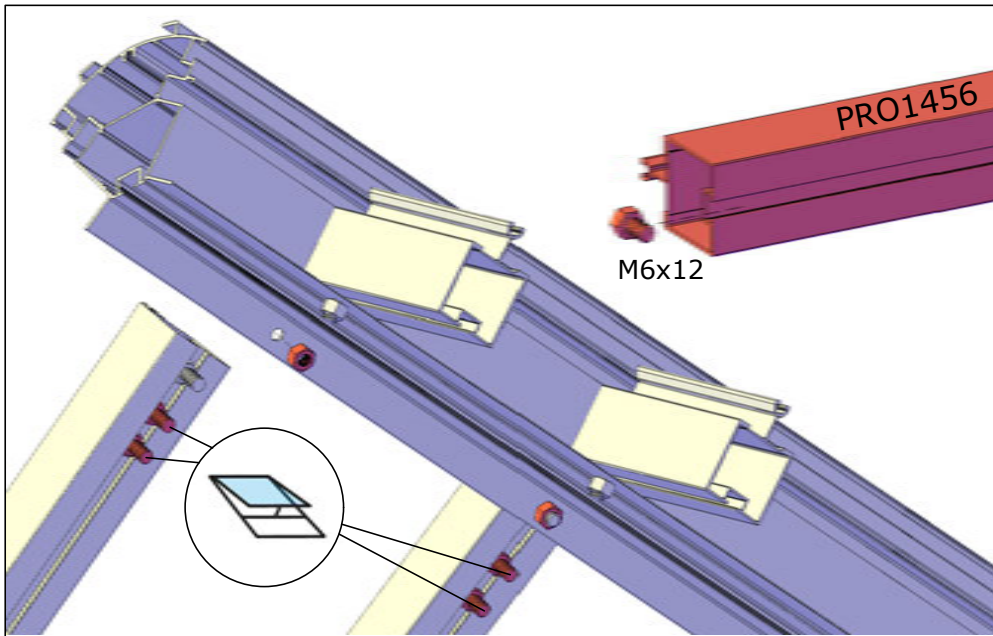
Note: Attach the elbow to the greenhouse base. First, drill a small hole in the back of the elbow and then a small hole in the frame of the greenhouse for the screw to thread into. Run the screw through the hole on the inside of the elbow and into the greenhouse base.



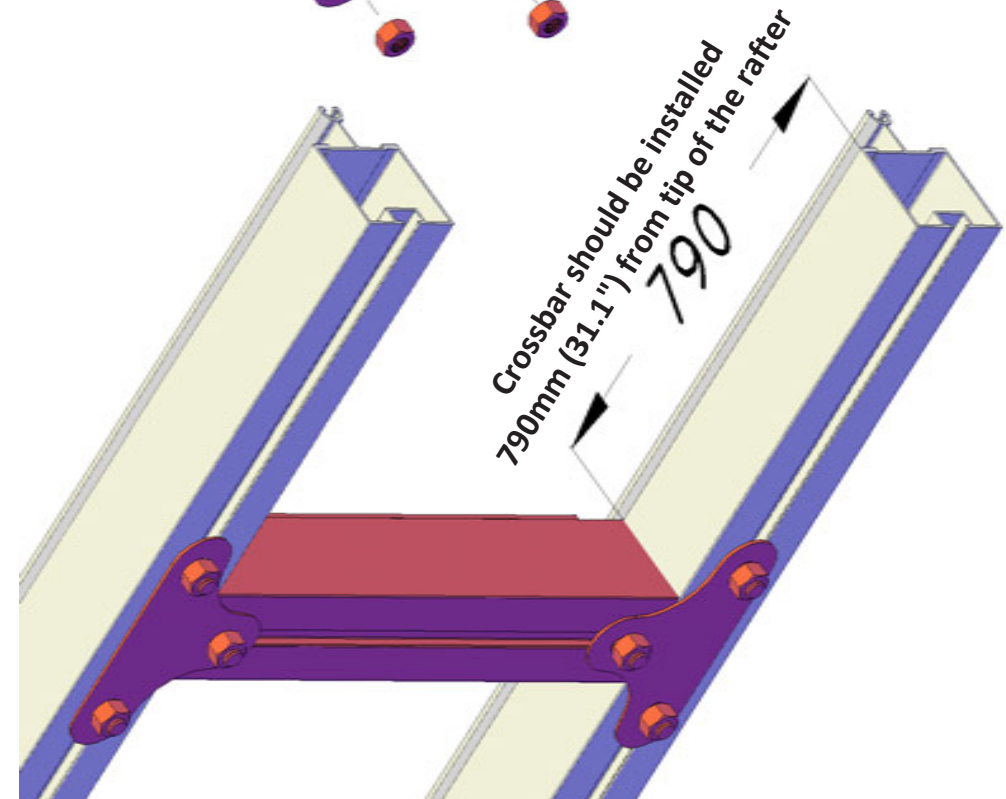
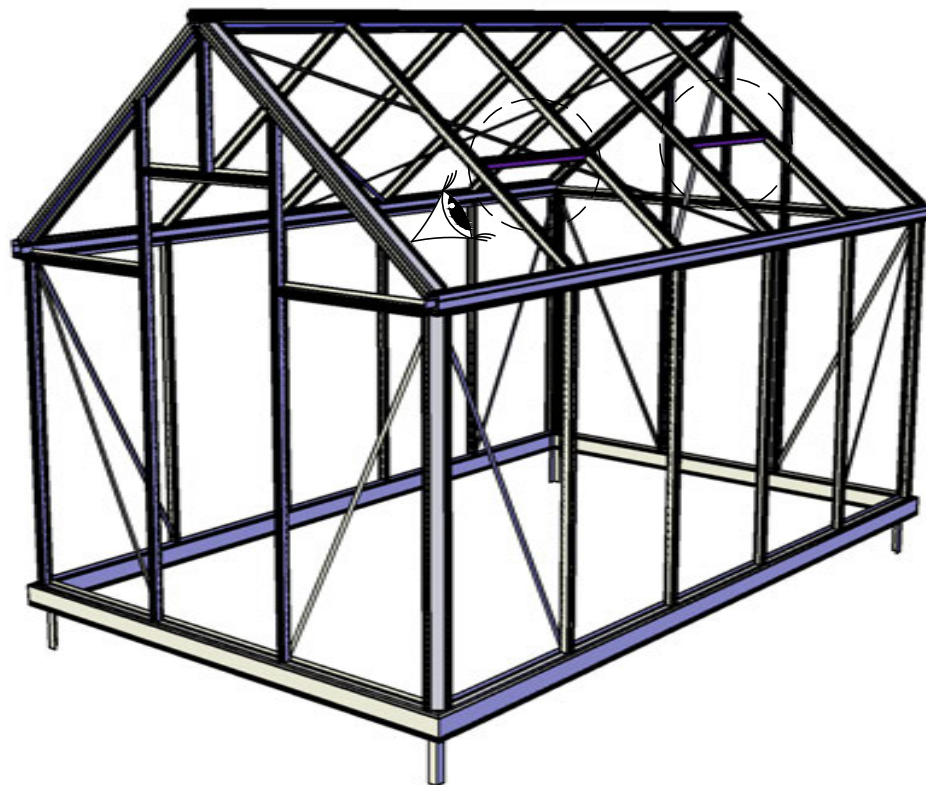
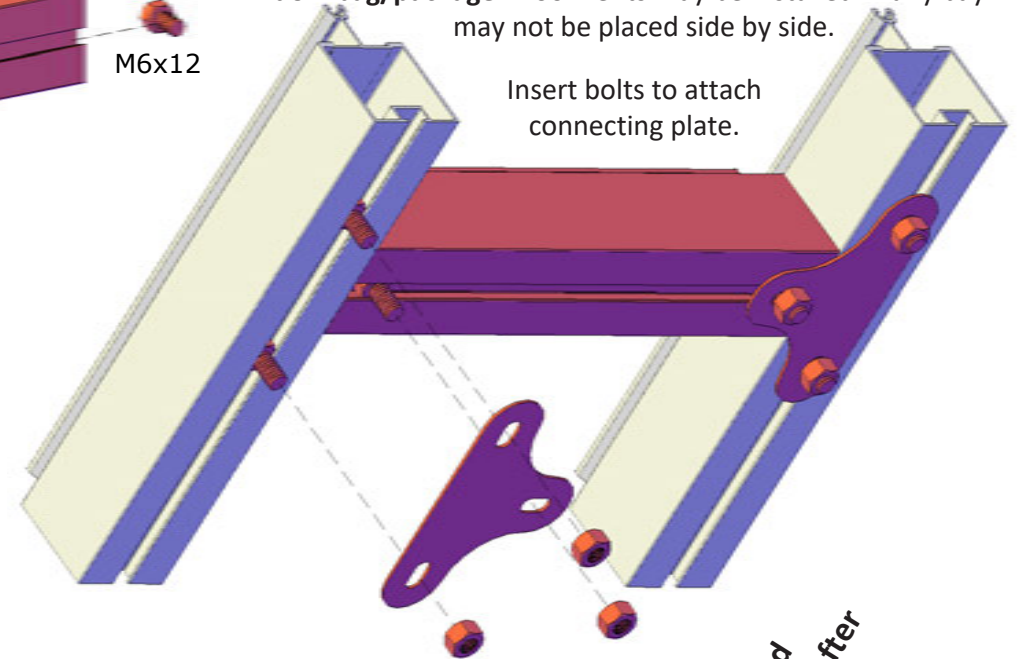
Roof decorations may be installed at this point or after glazing is installed if desired. It may be easier to install glazing gaskets if the roof decoration is installed at the very end. Roof decorations are optional and may be omitted if desired.

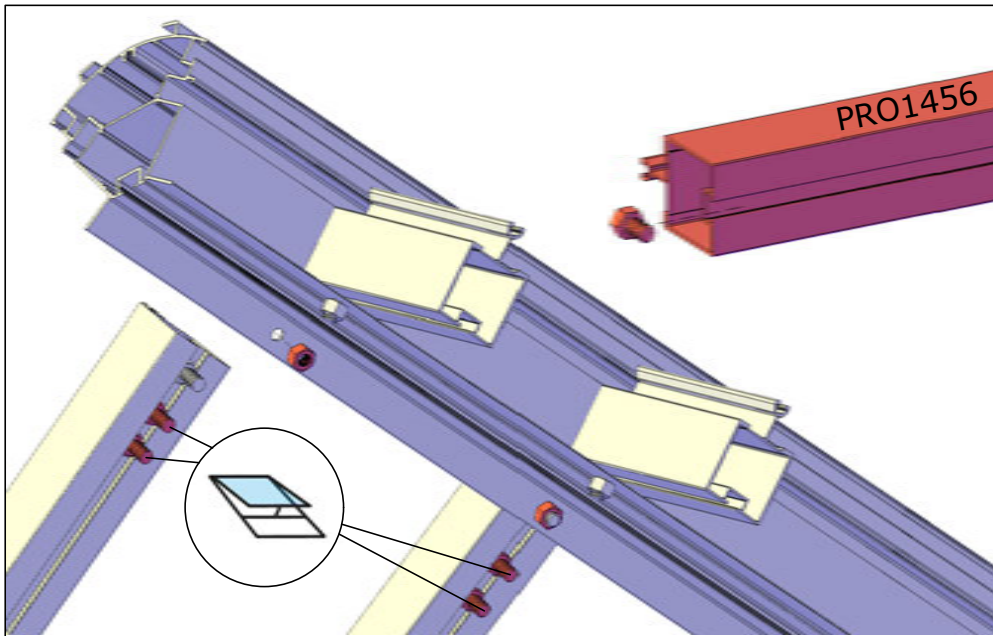


Note: Attach the elbow to the greenhouse base. First, drill a small hole in the back of the elbow and then a small hole in the frame of the greenhouse for the screw to thread into. Run the screw through the hole on the inside of the elbow and into the greenhouse base.



Crossbar for framing roof vent opening will be found in each Roof Window bag/package. Roof vents may be installed in any bay. They may not be placed side by side.

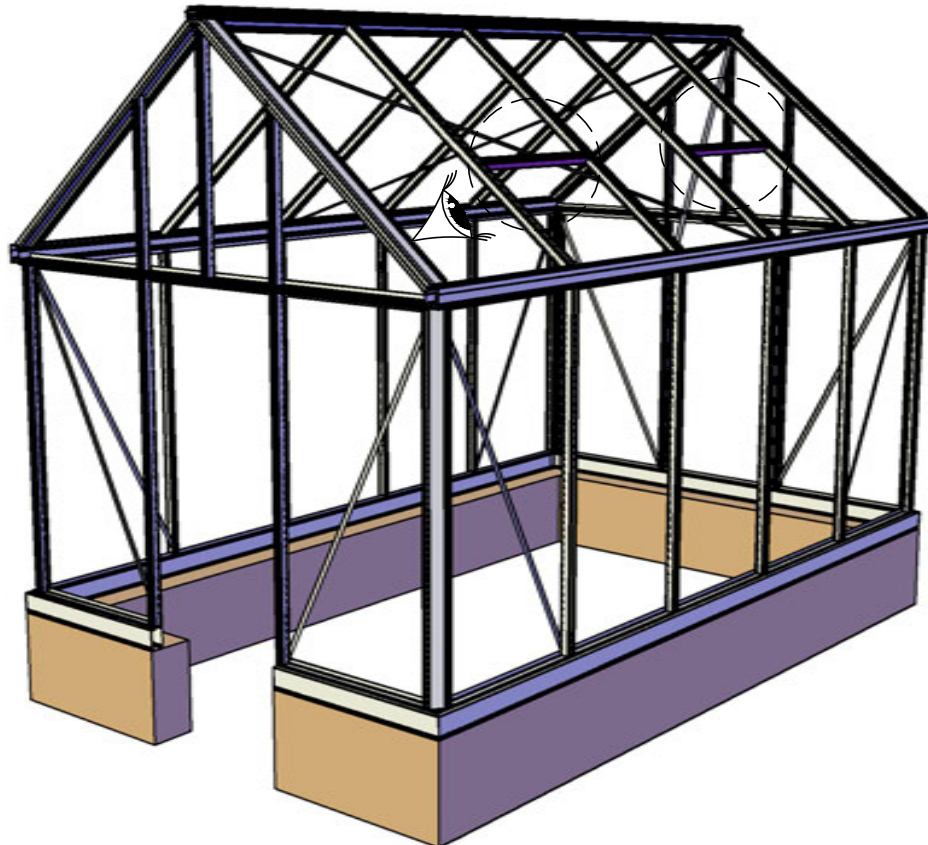
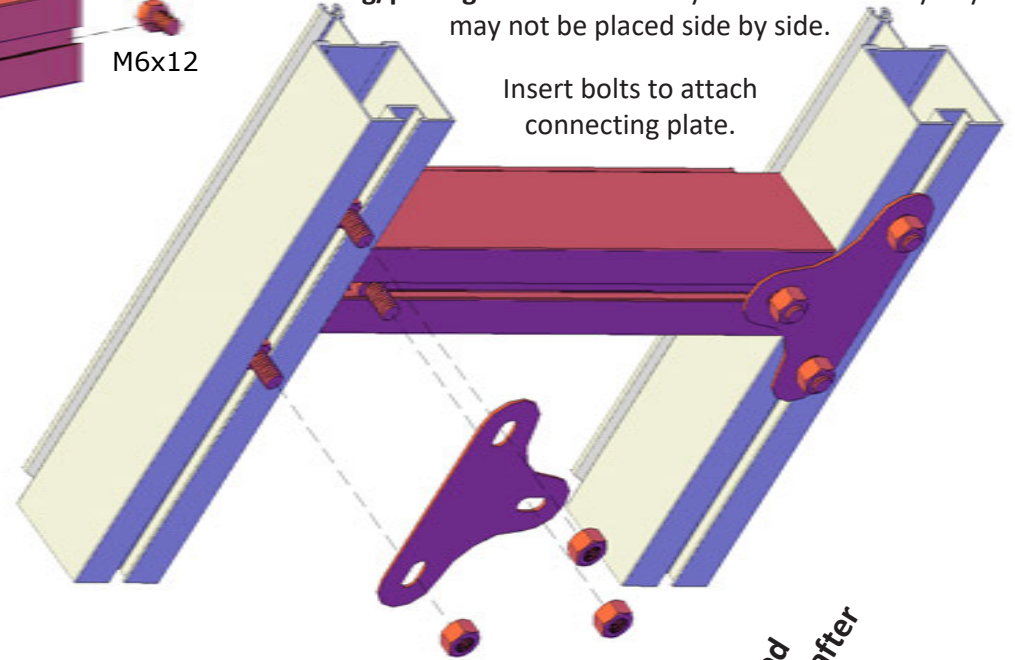




Crossbar for framing roof vent opening will be found in each Roof Window bag/package. Roof vents may be installed in any bay. They may not be placed side by side.

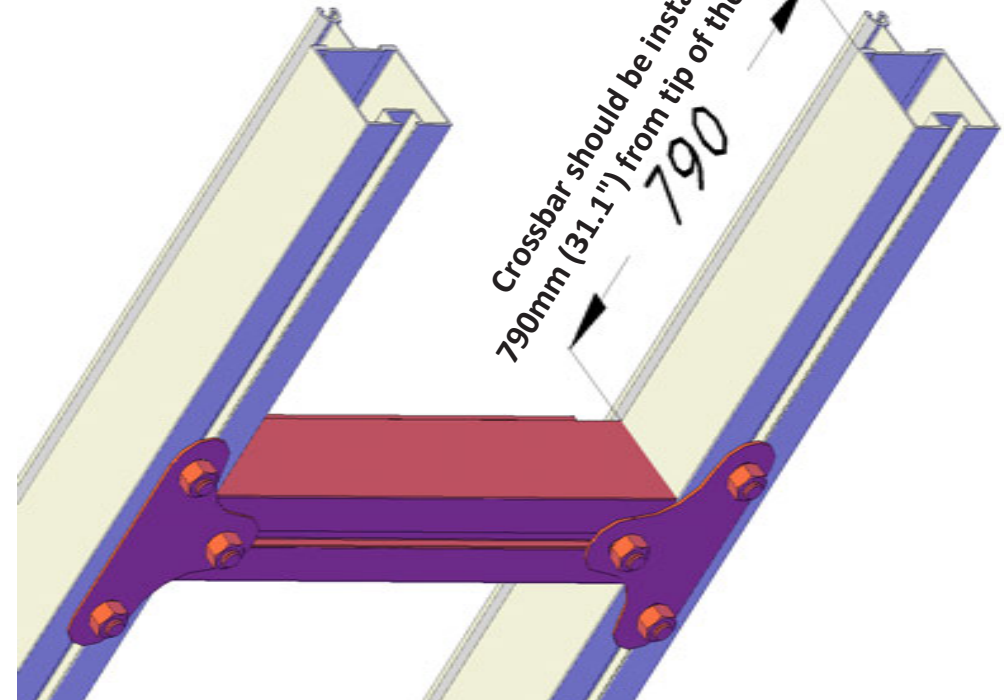
M6x12

Insert bolts to attach connecting plate.

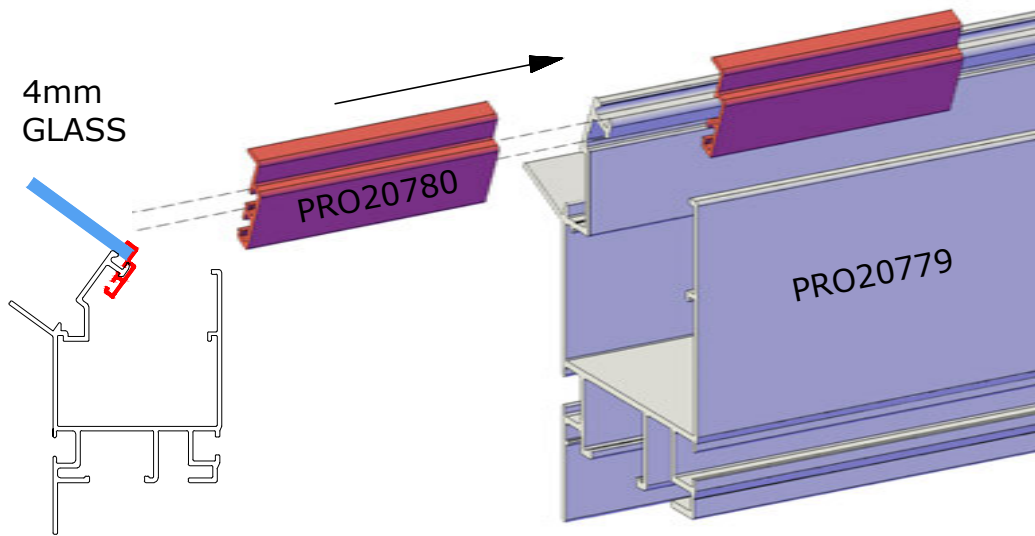


Crossbar should be installed
790mm (31.1") from tip of the rafter

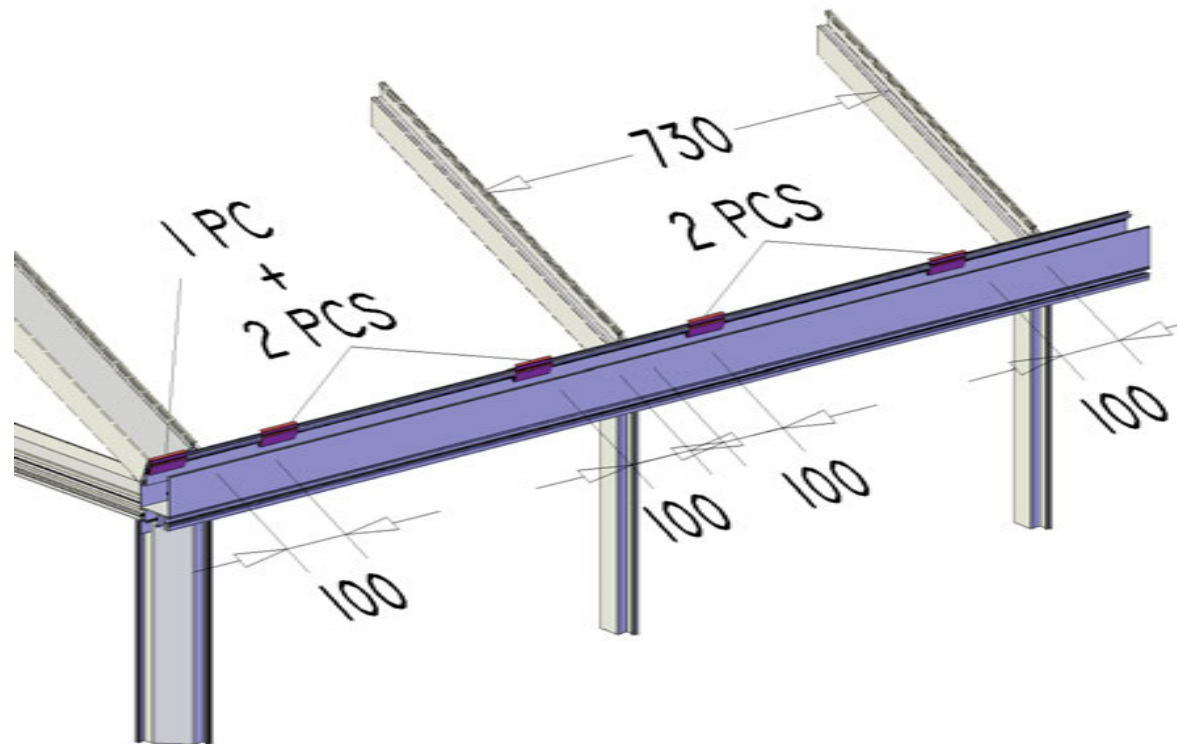
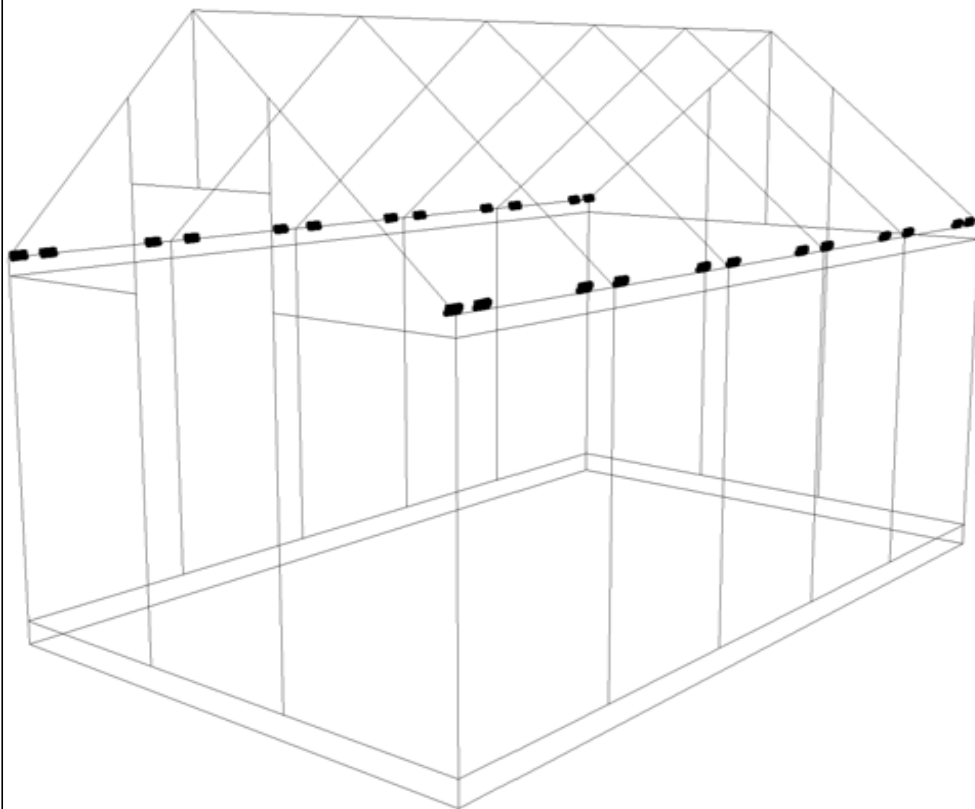
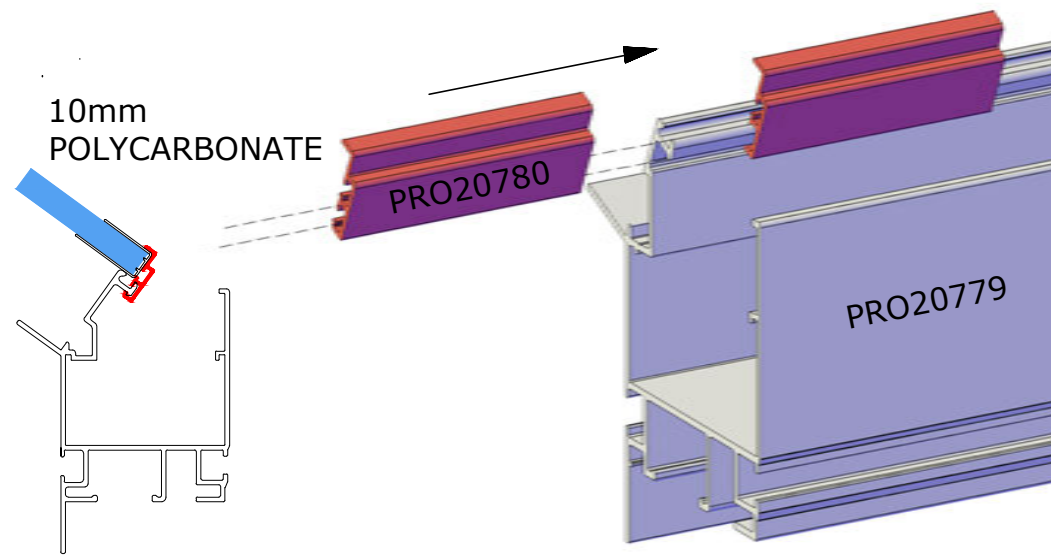
790

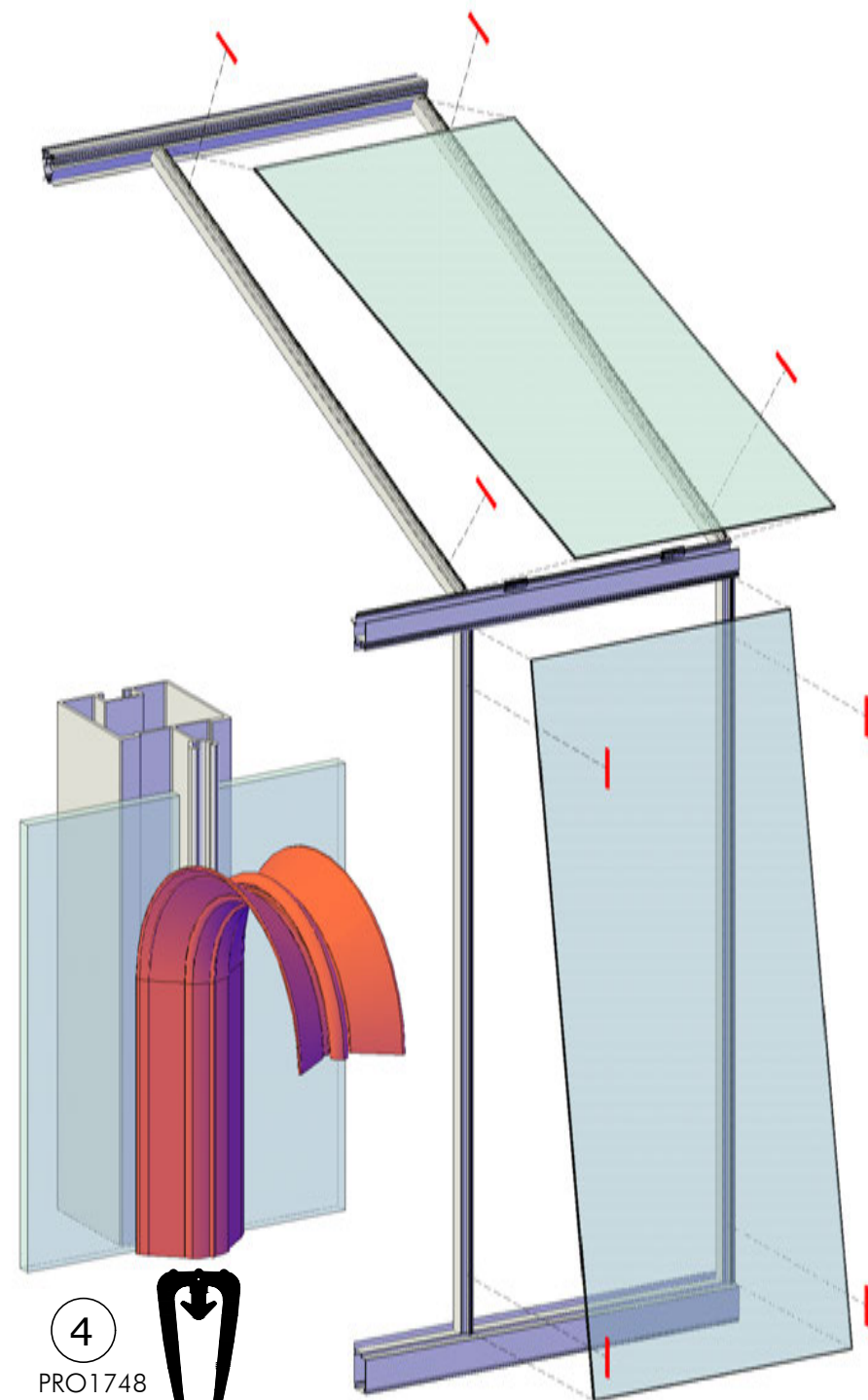
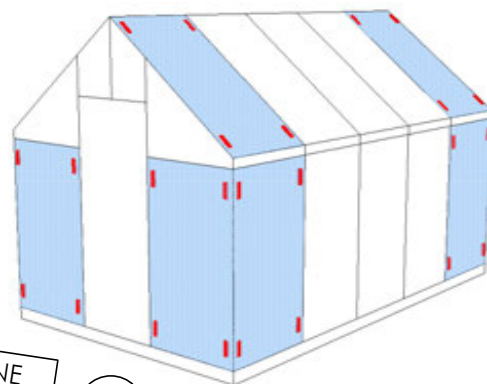
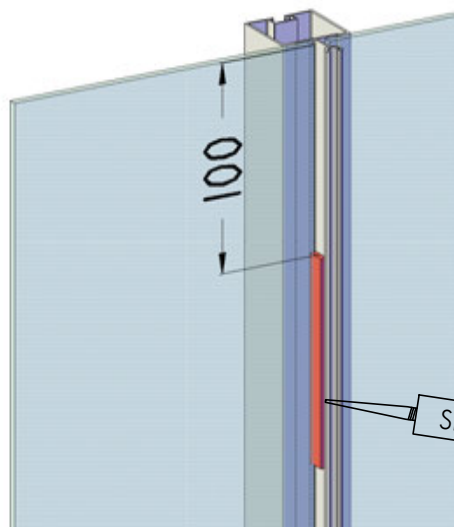
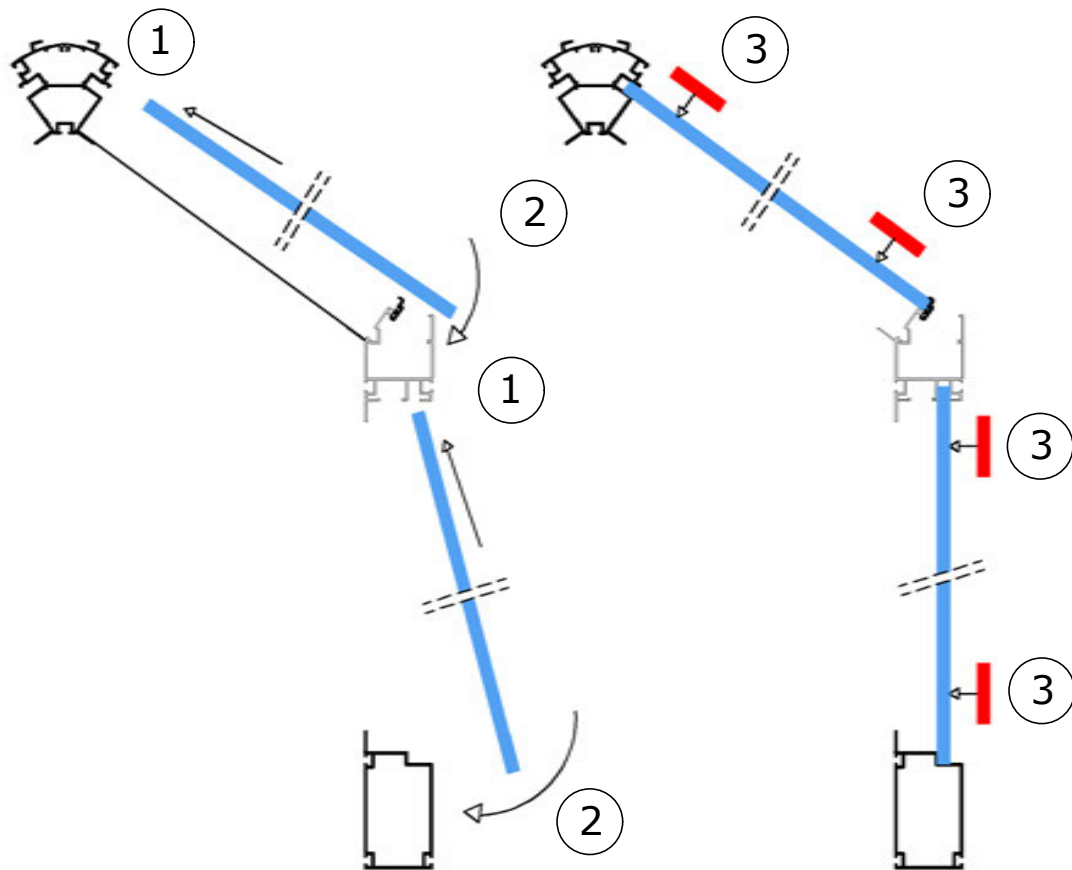


4mm
GLASS



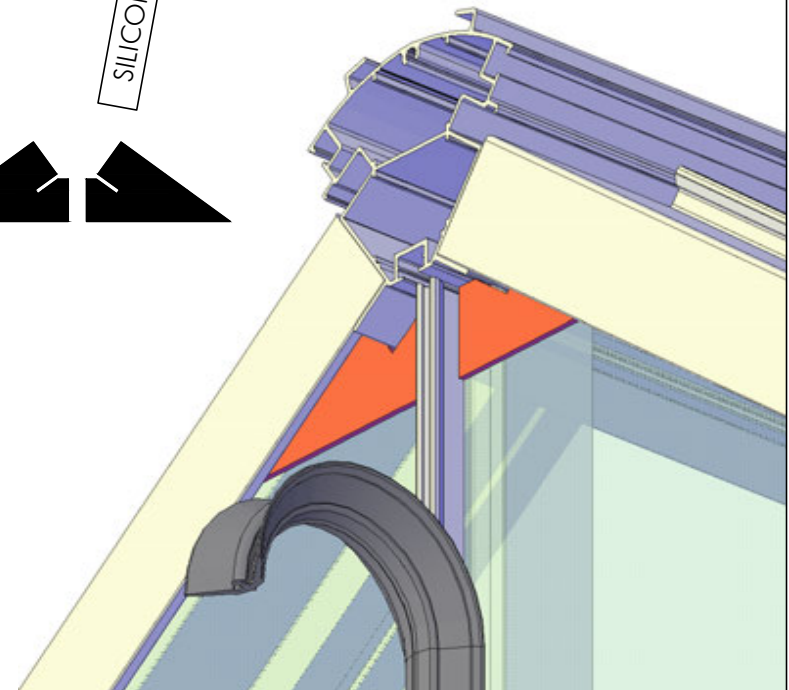
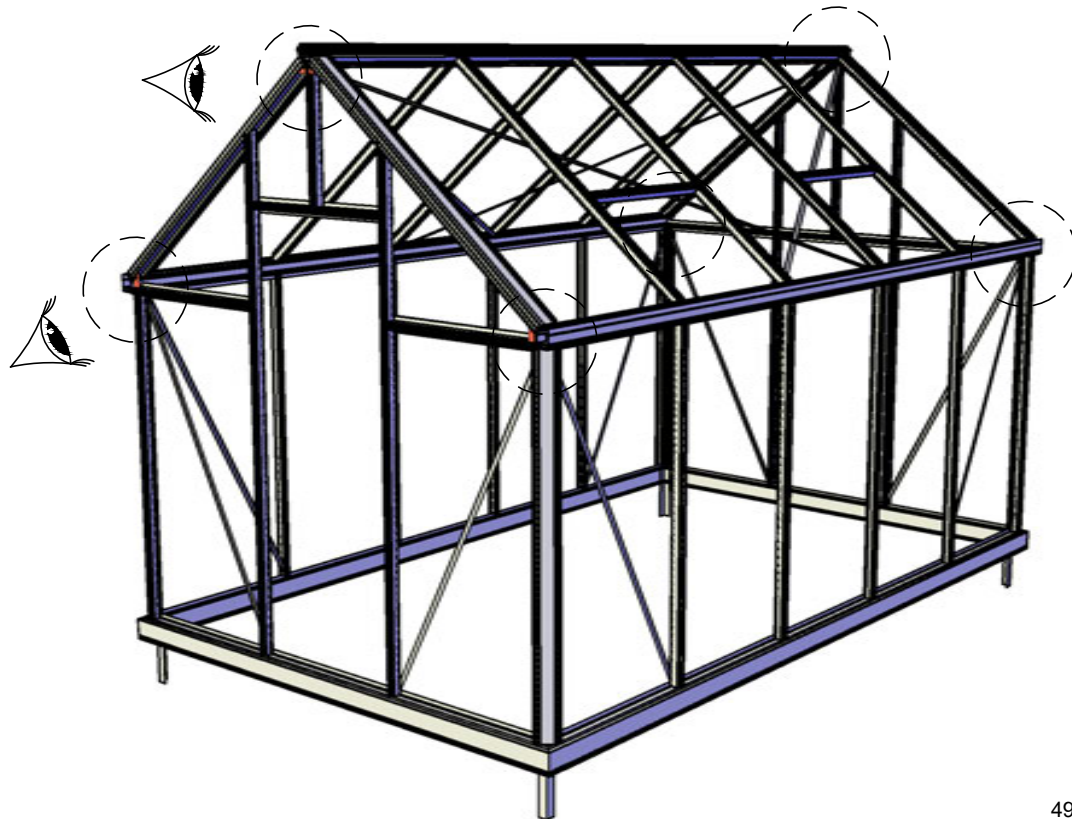
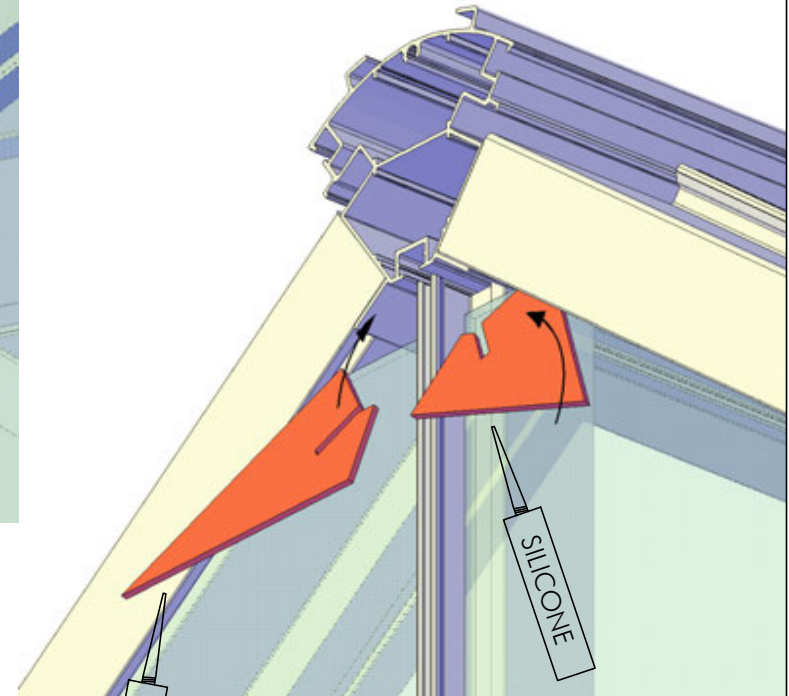
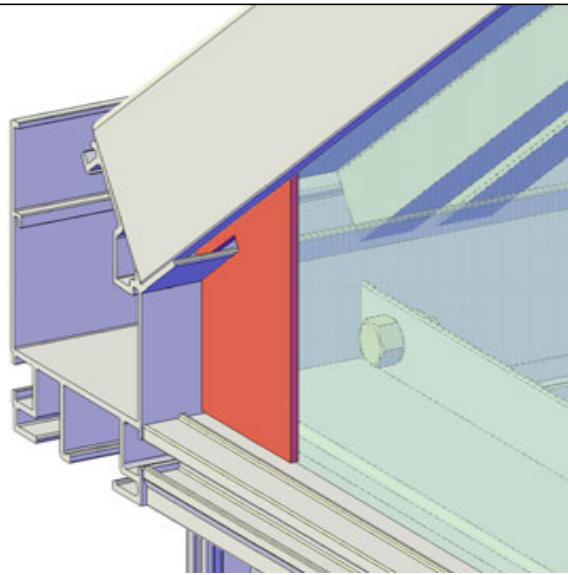
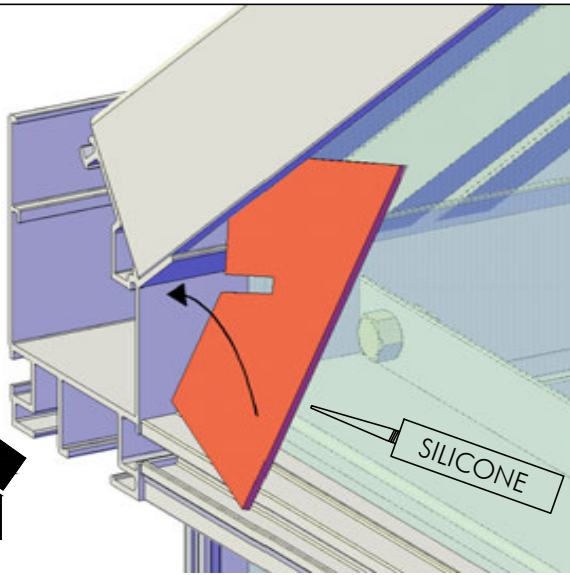
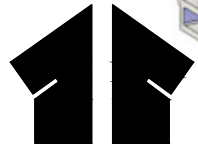
10mm
POLYCARBONATE



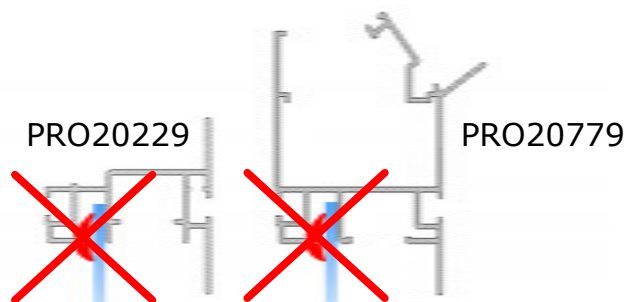
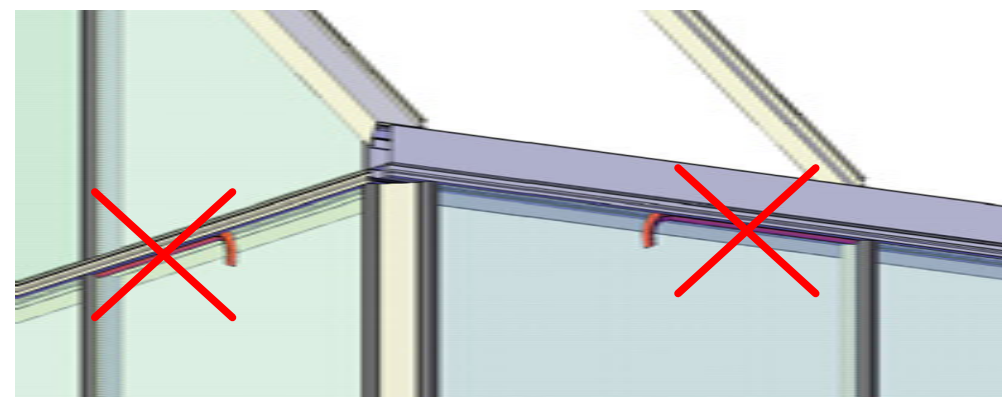
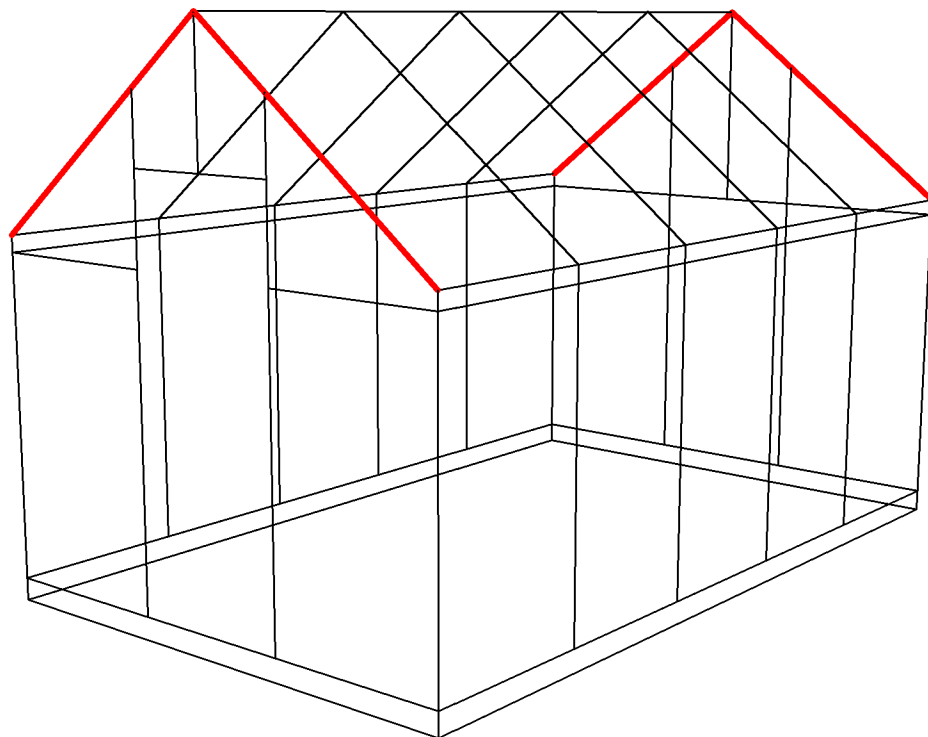
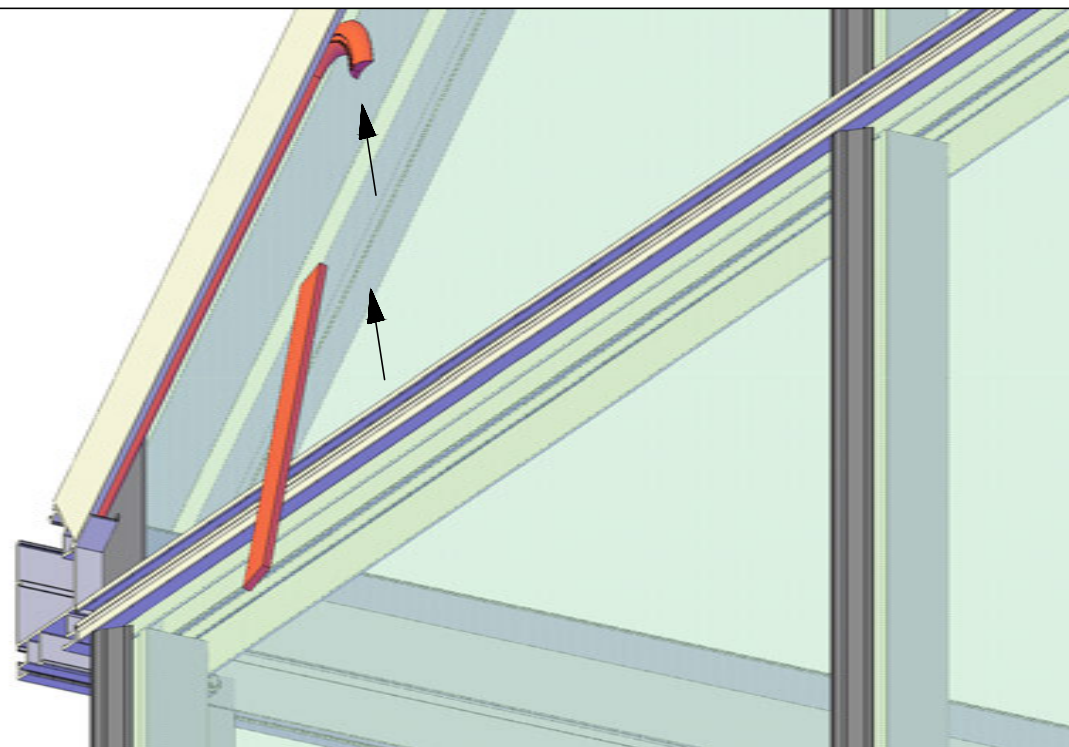
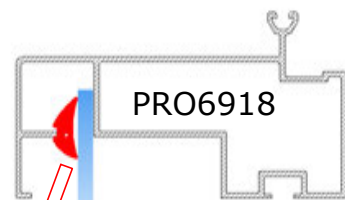


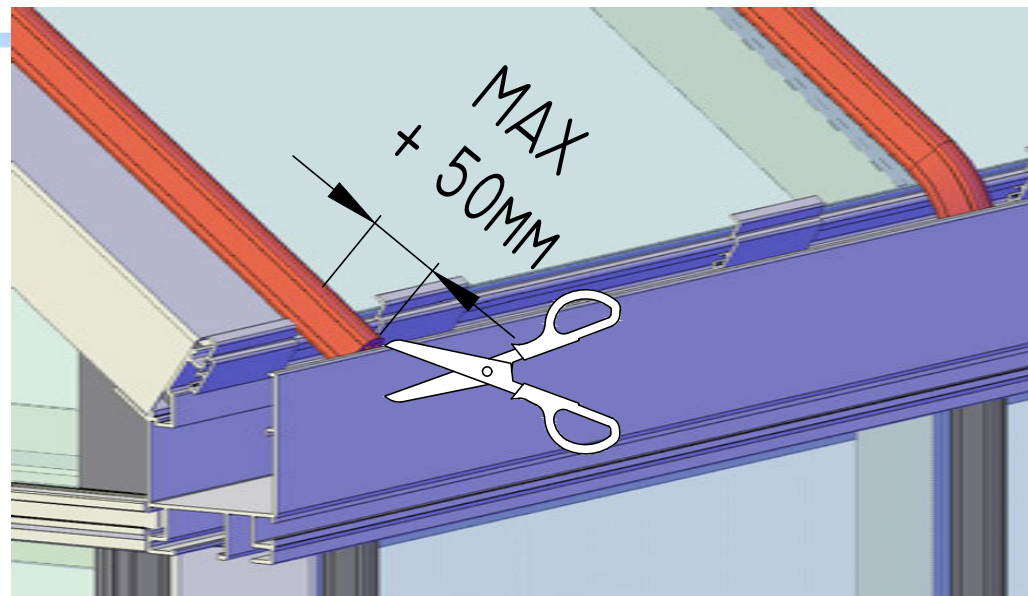
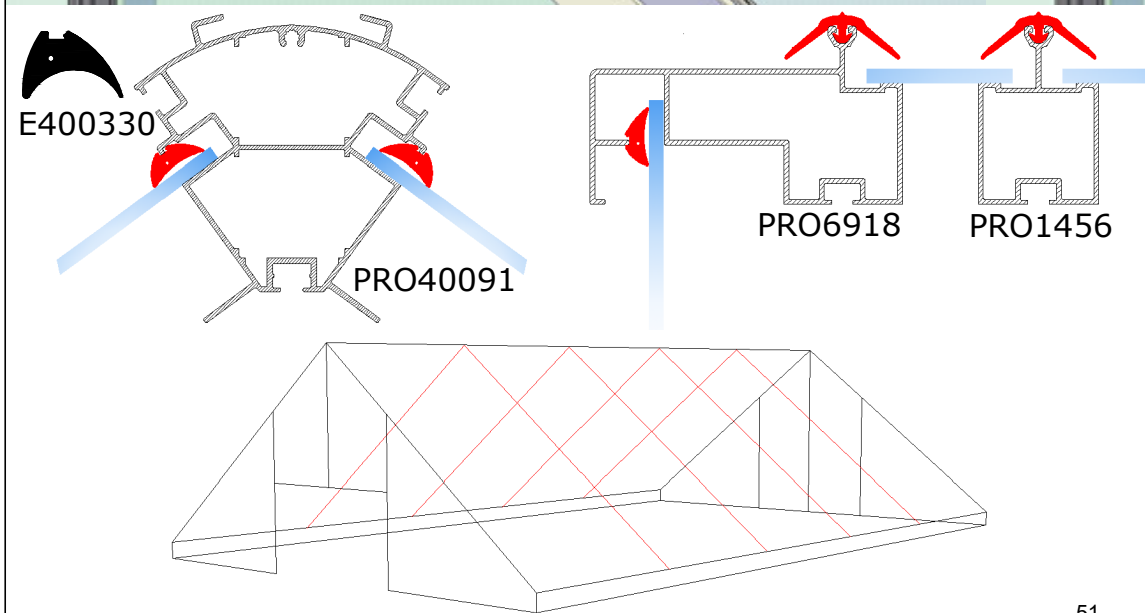
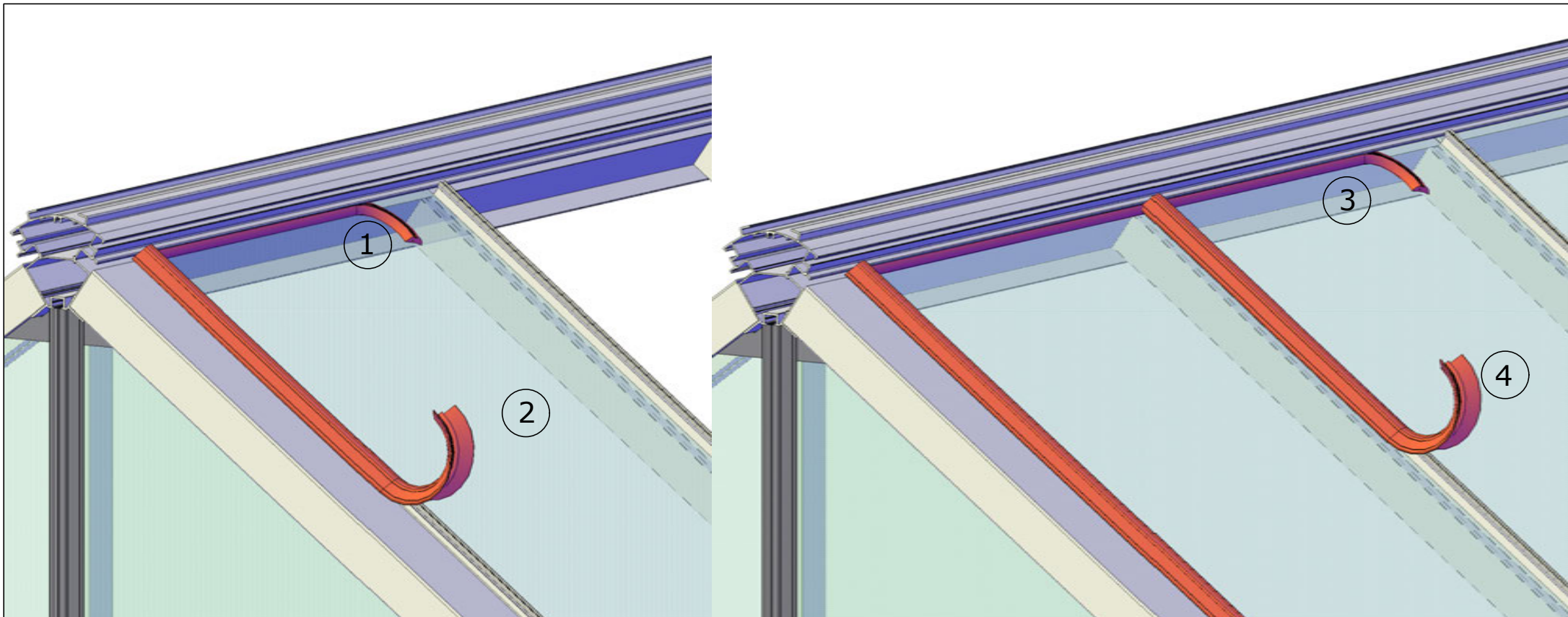
4
PRO1748





E400330





ACCESSORIES

This section contains many of the optional accessories.

You will have some, but likely not all, items seen in this section.

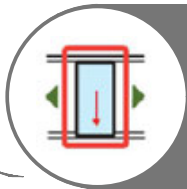
IMPORTANT: Scan the QR codes below to take you to our accessories installation video on YouTube and to our accessories page on our website.

QR Code for Website



QR Code for Accessories
Video on YouTube

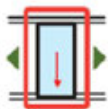




OPTIONAL UPGRADE: Low Threshold for Sliding Door/s

KSD

KSD_70



Single sliding door opening
should be 703mm



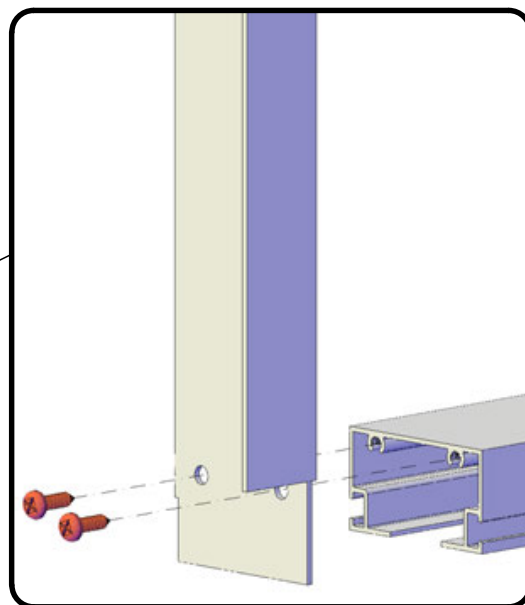
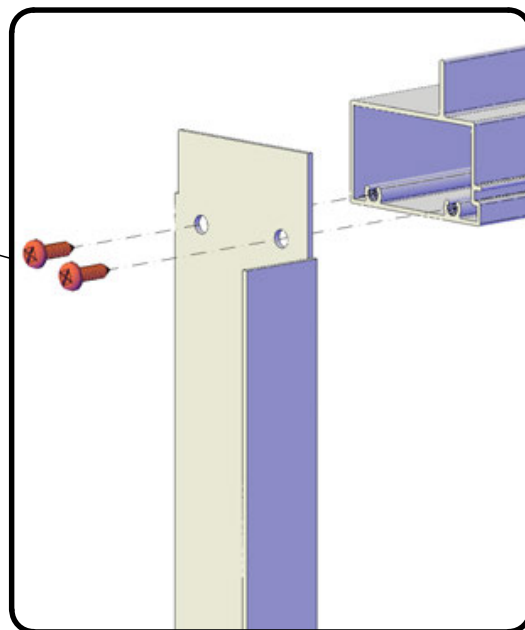
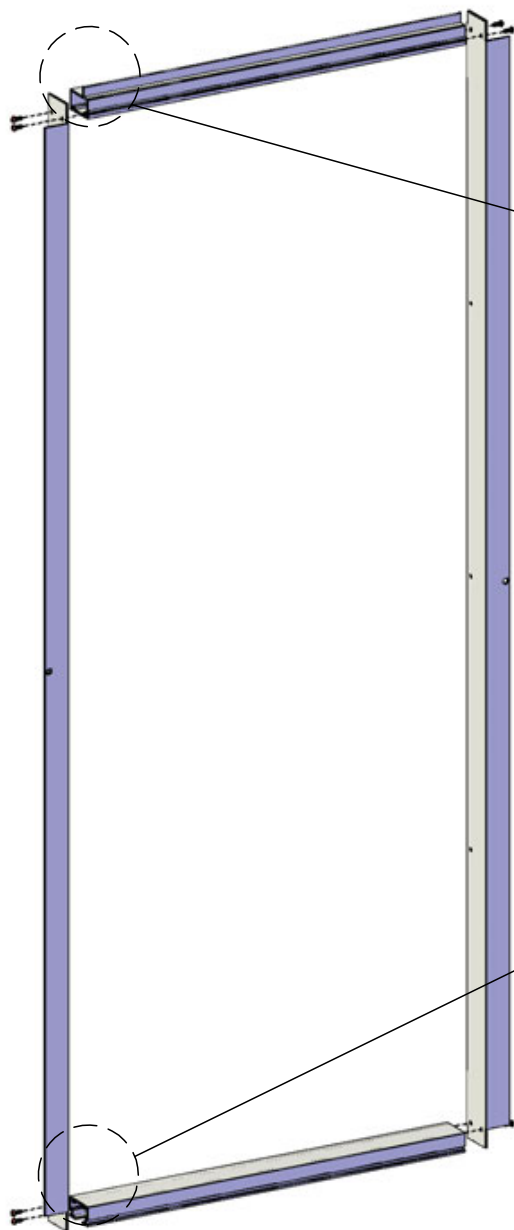
KSD_144

Double sliding door opening
should be 1441mm

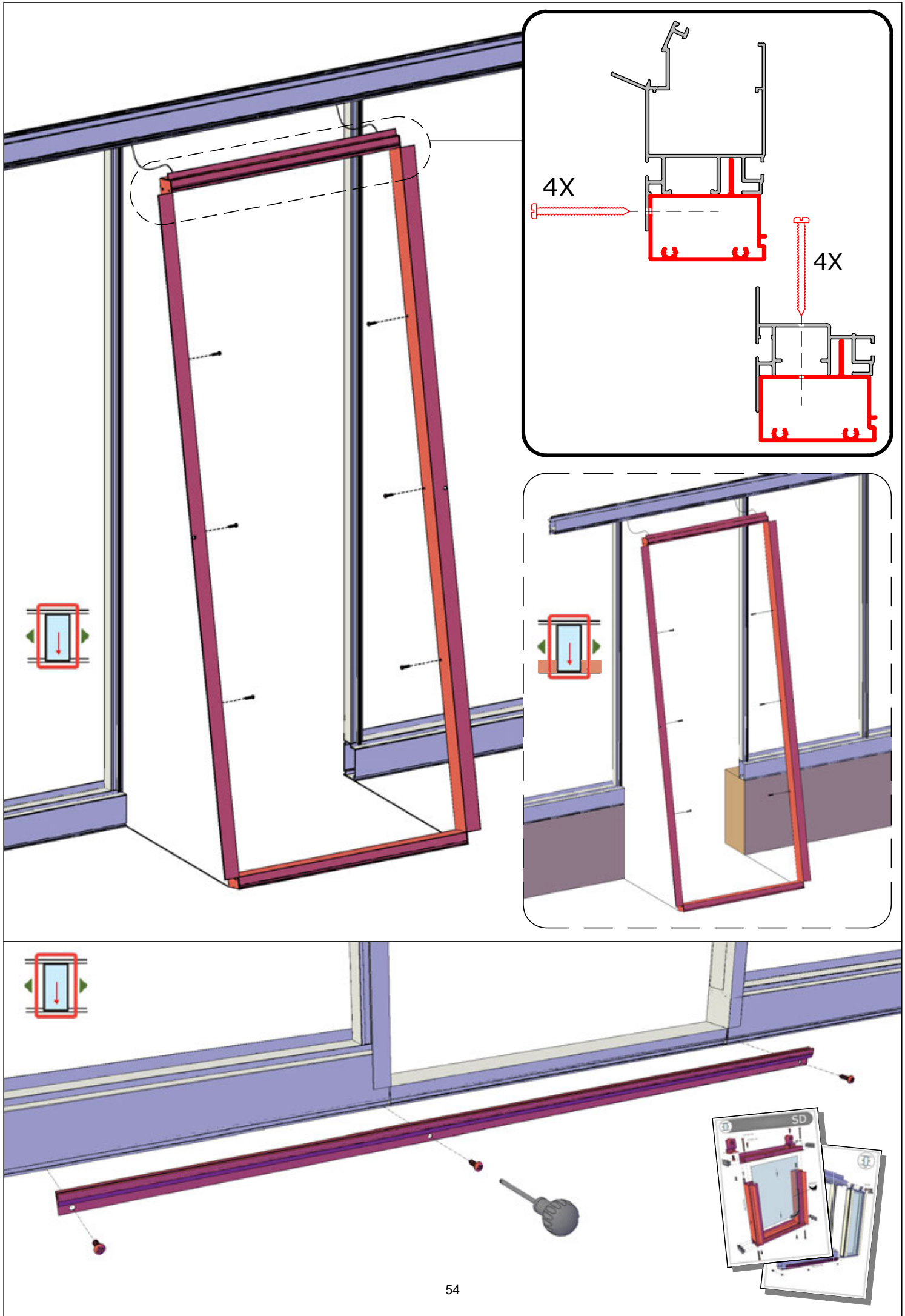
Cut foundation
frame 17mm from
bolt hole

Cut foundation
frame 17mm from
bolt hole

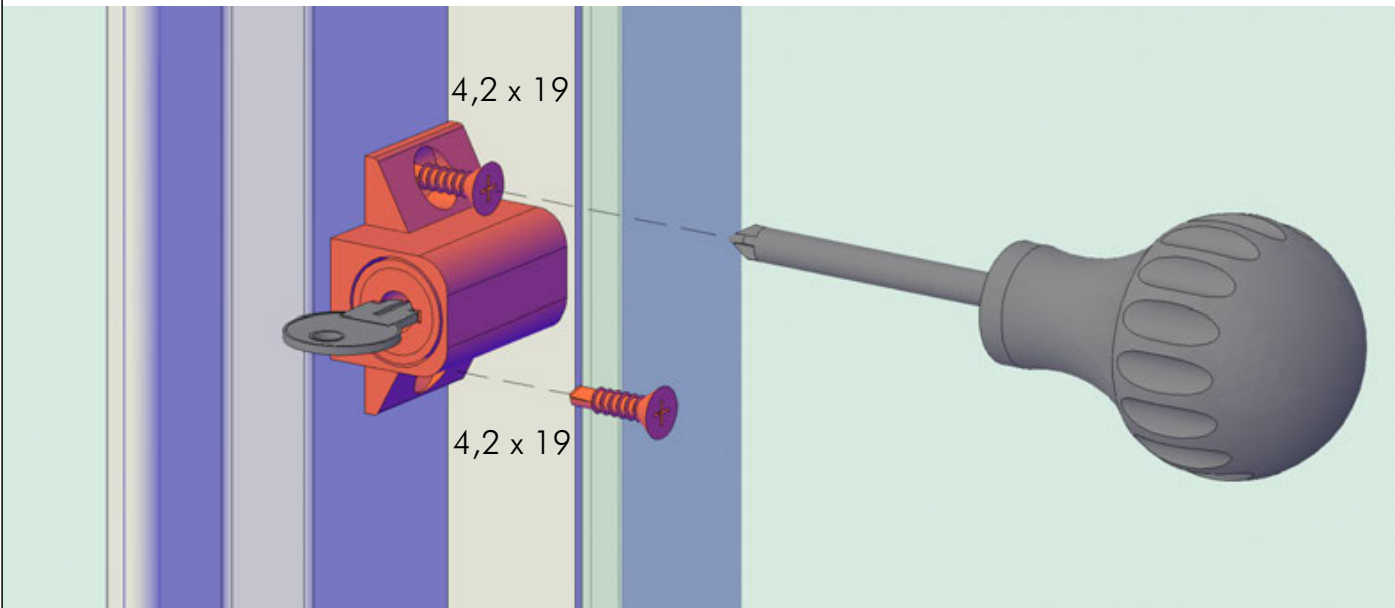
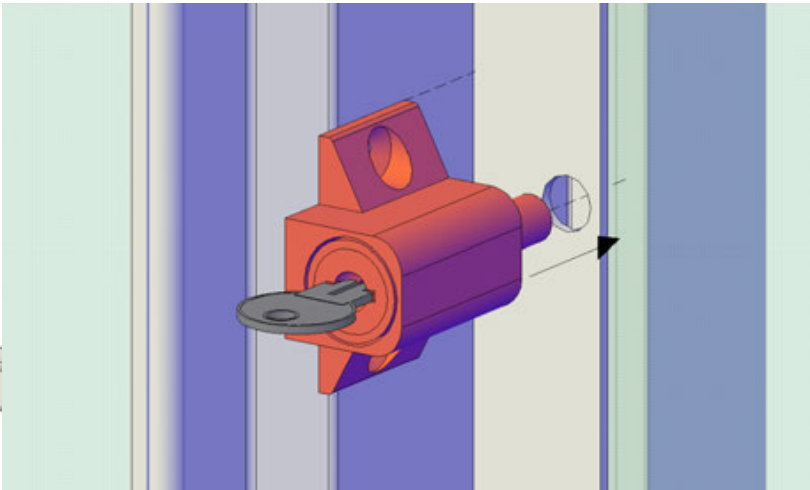
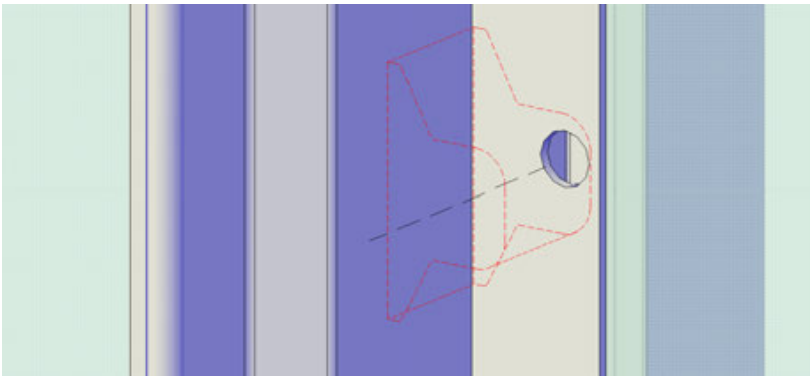
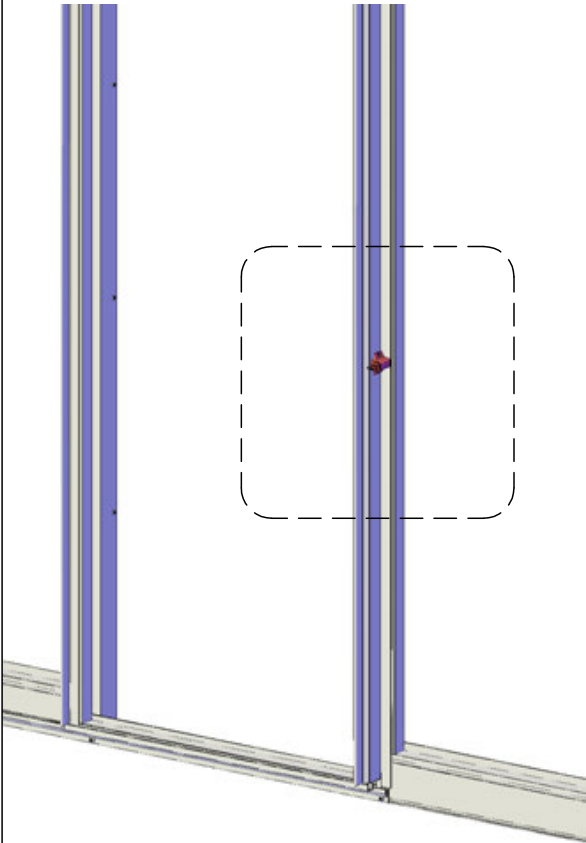
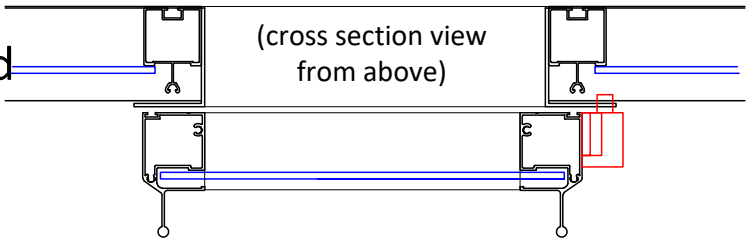
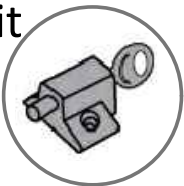
703 / 1441

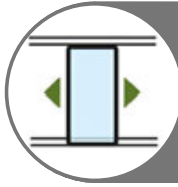


KSD_1



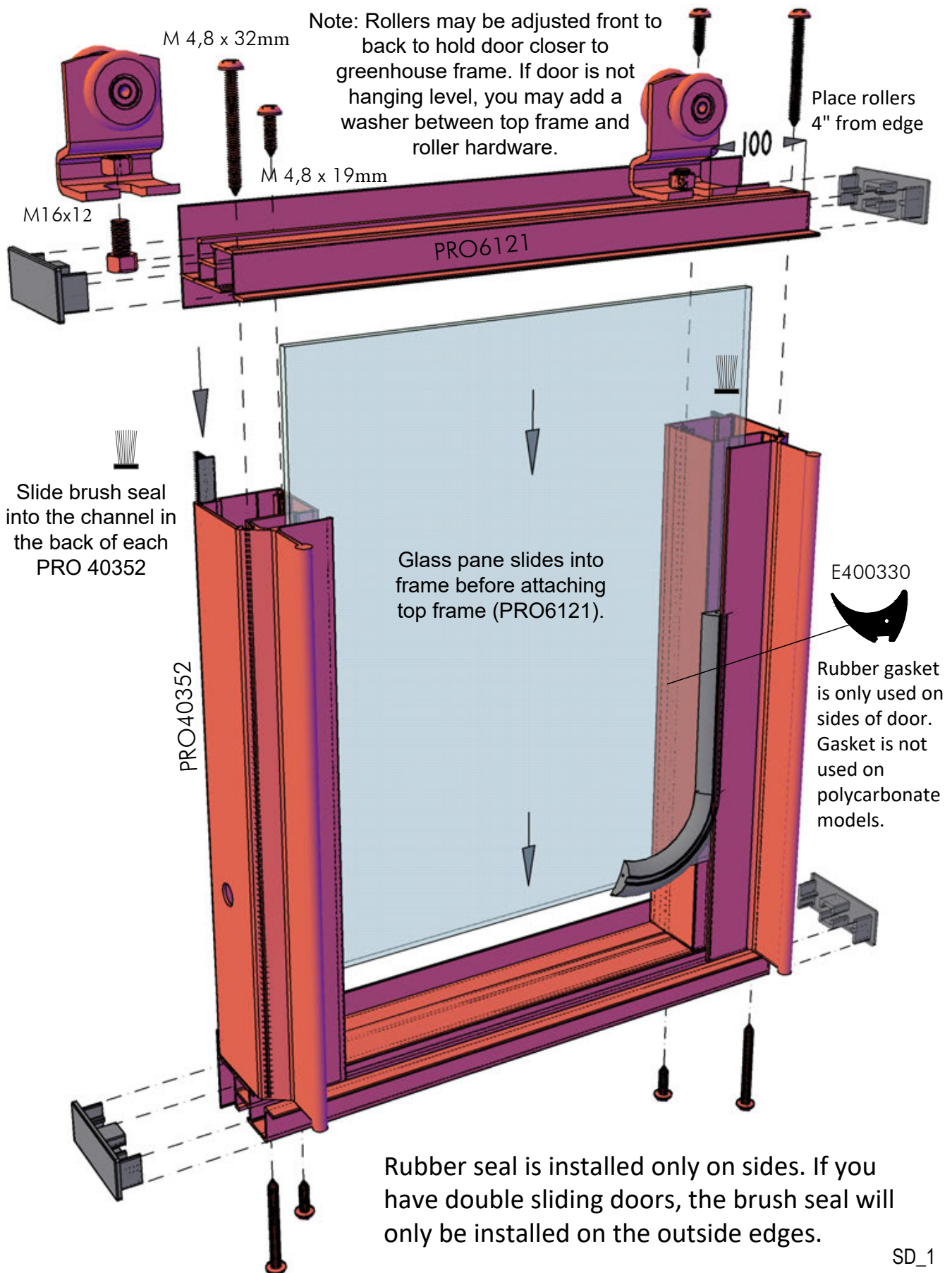
Optional Upgrade: Lock
installation with Low Threshold
Kit



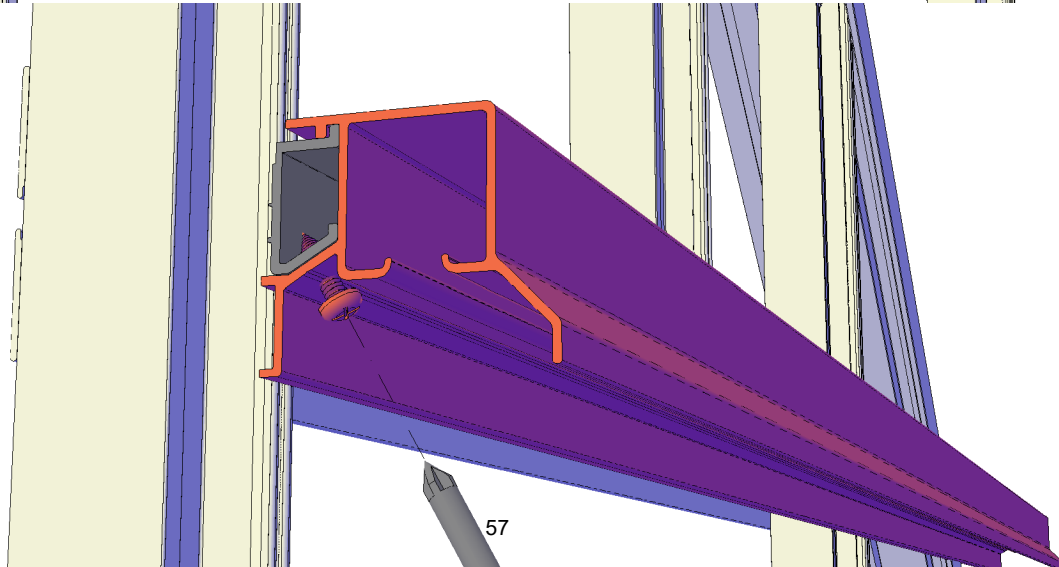
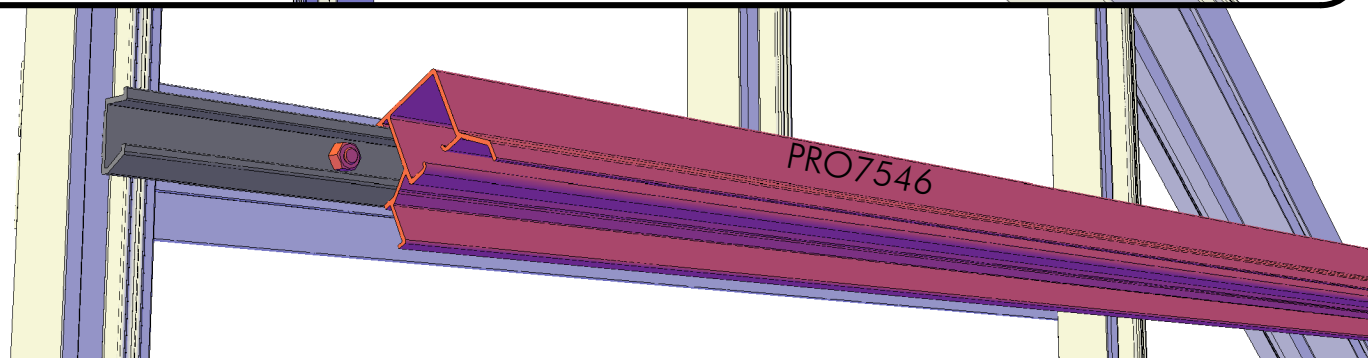
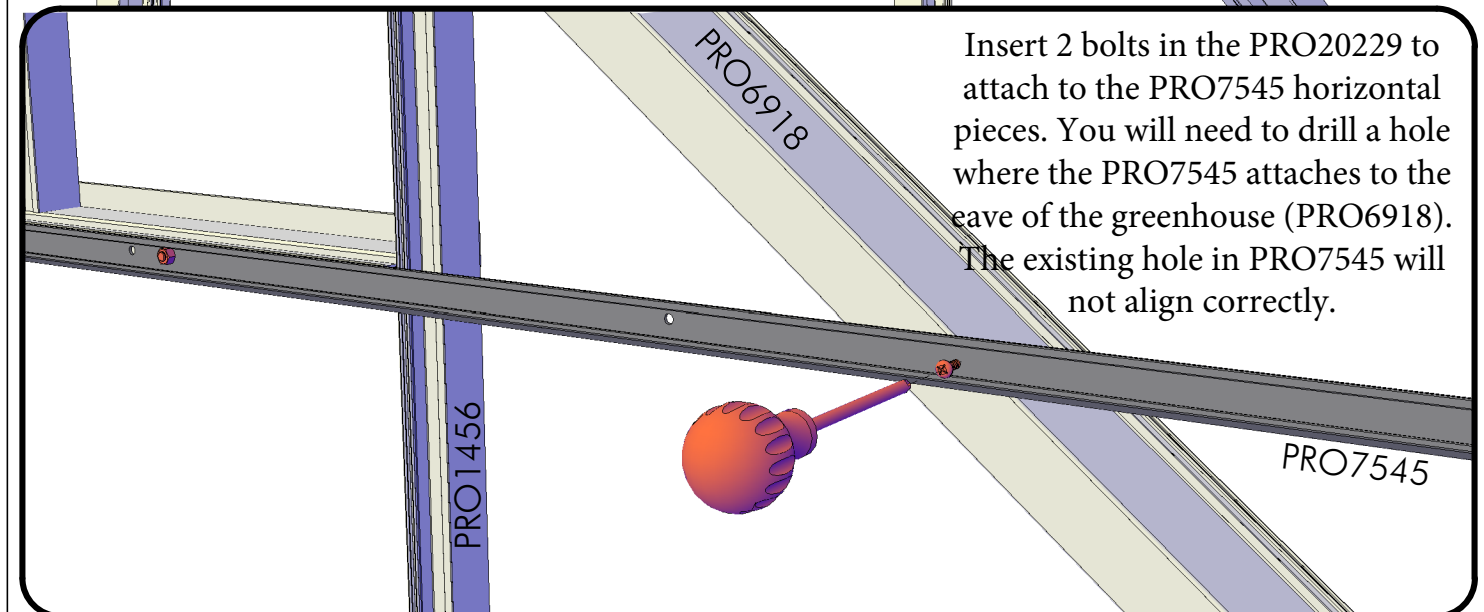
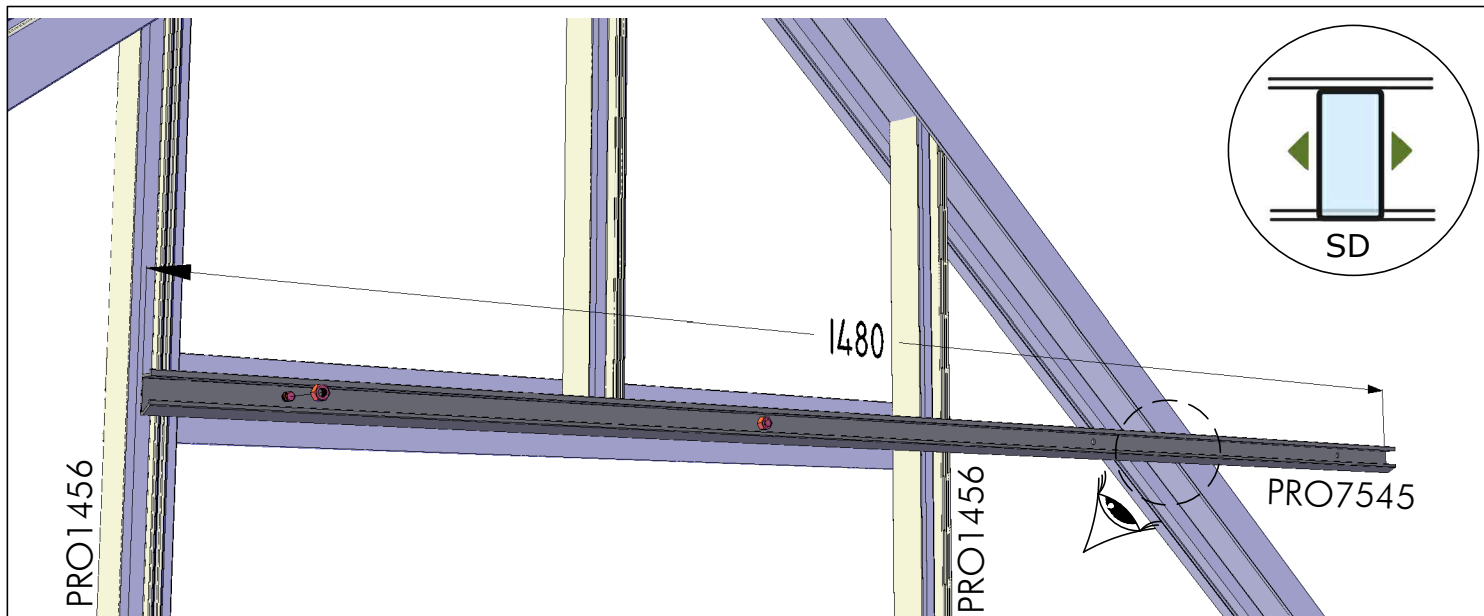


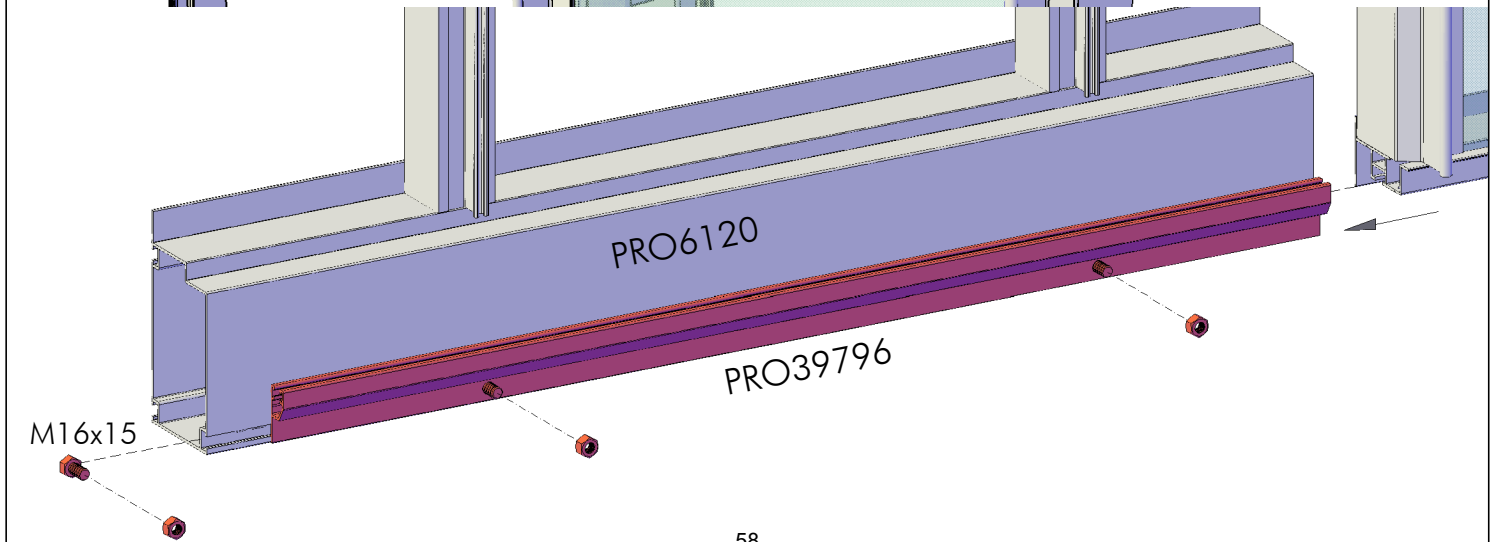
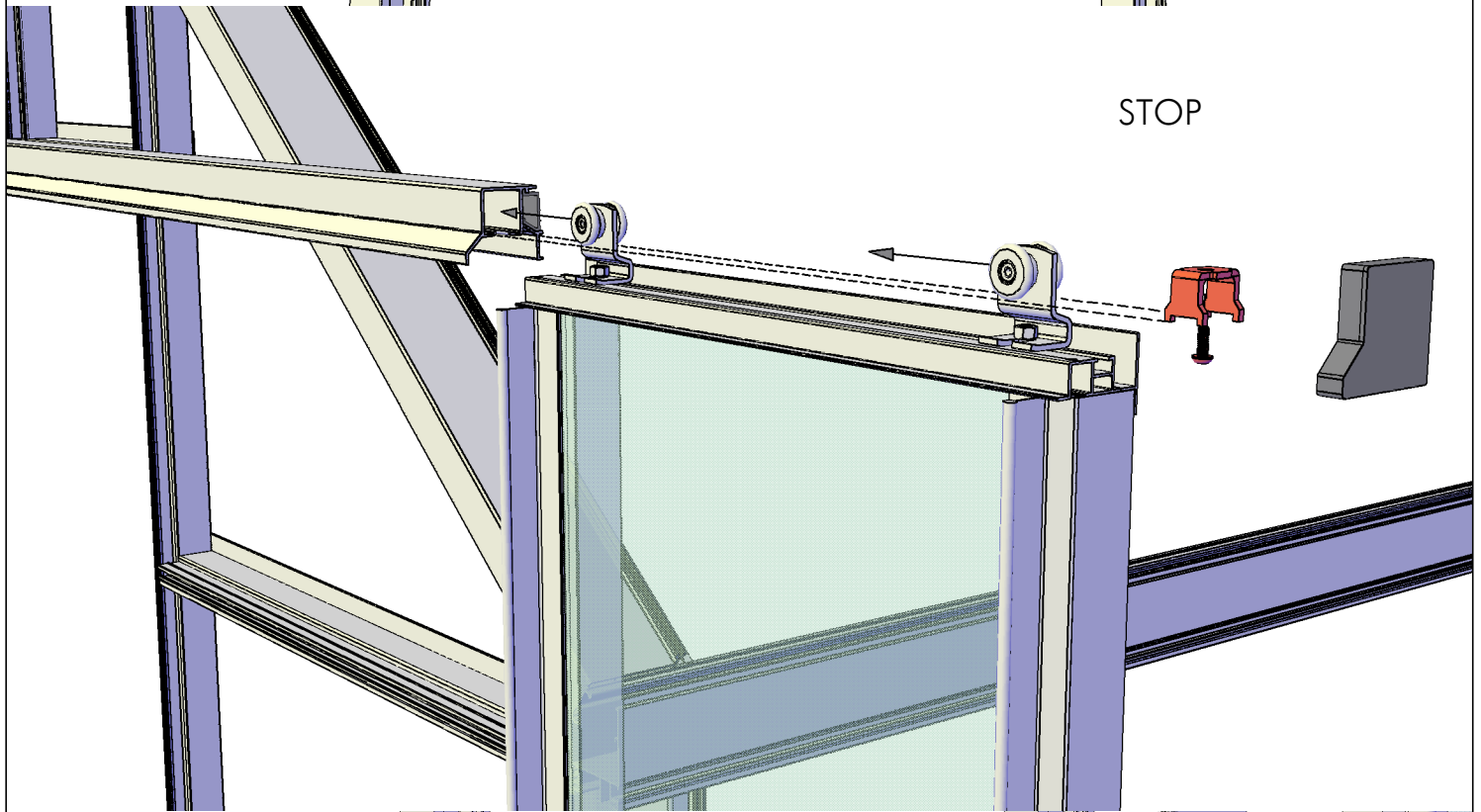
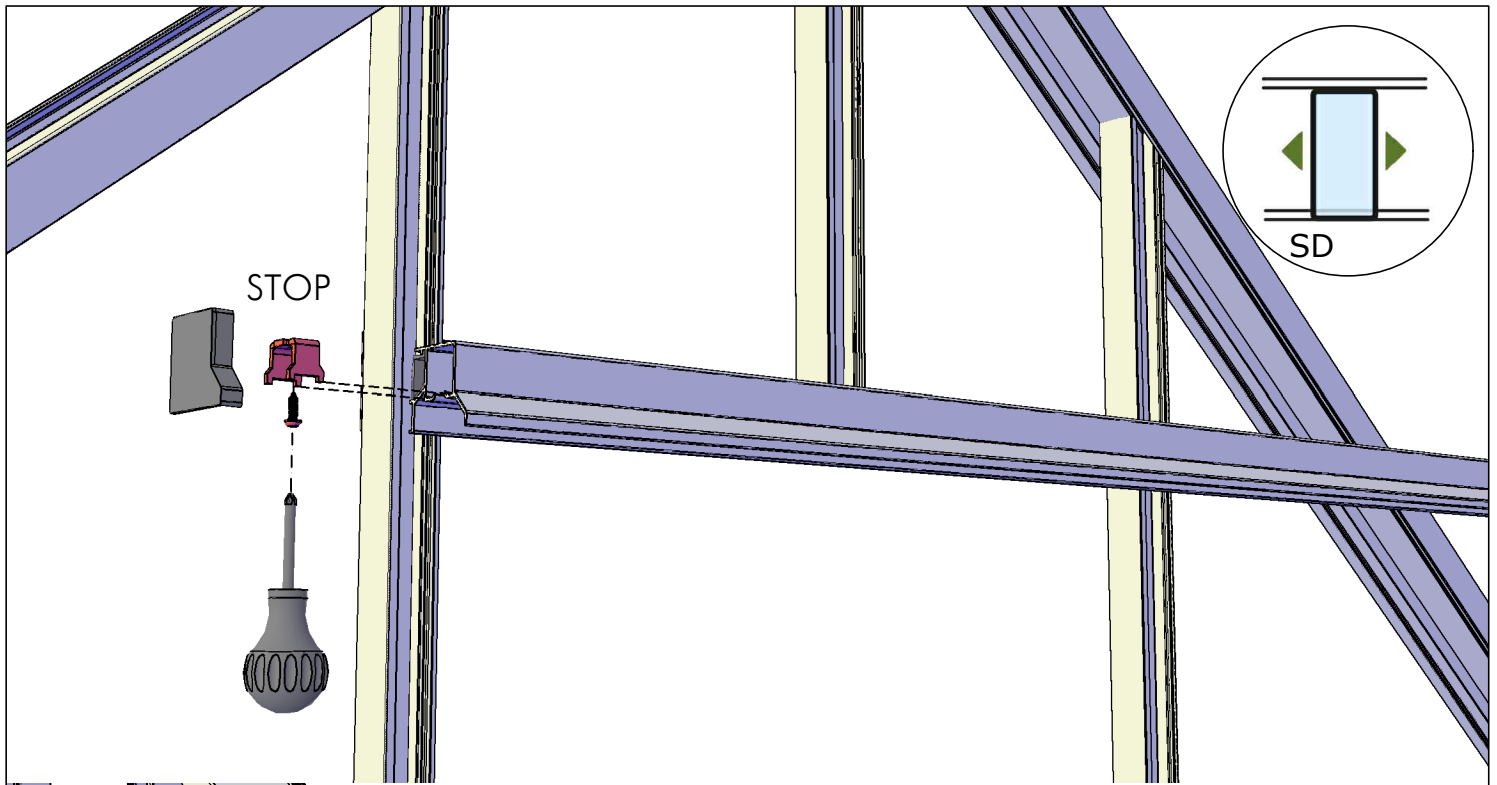
Sliding Door (Standard for most models). VI36 and 46 come with a double sliding door. Additional doors may be added to your greenhouse.

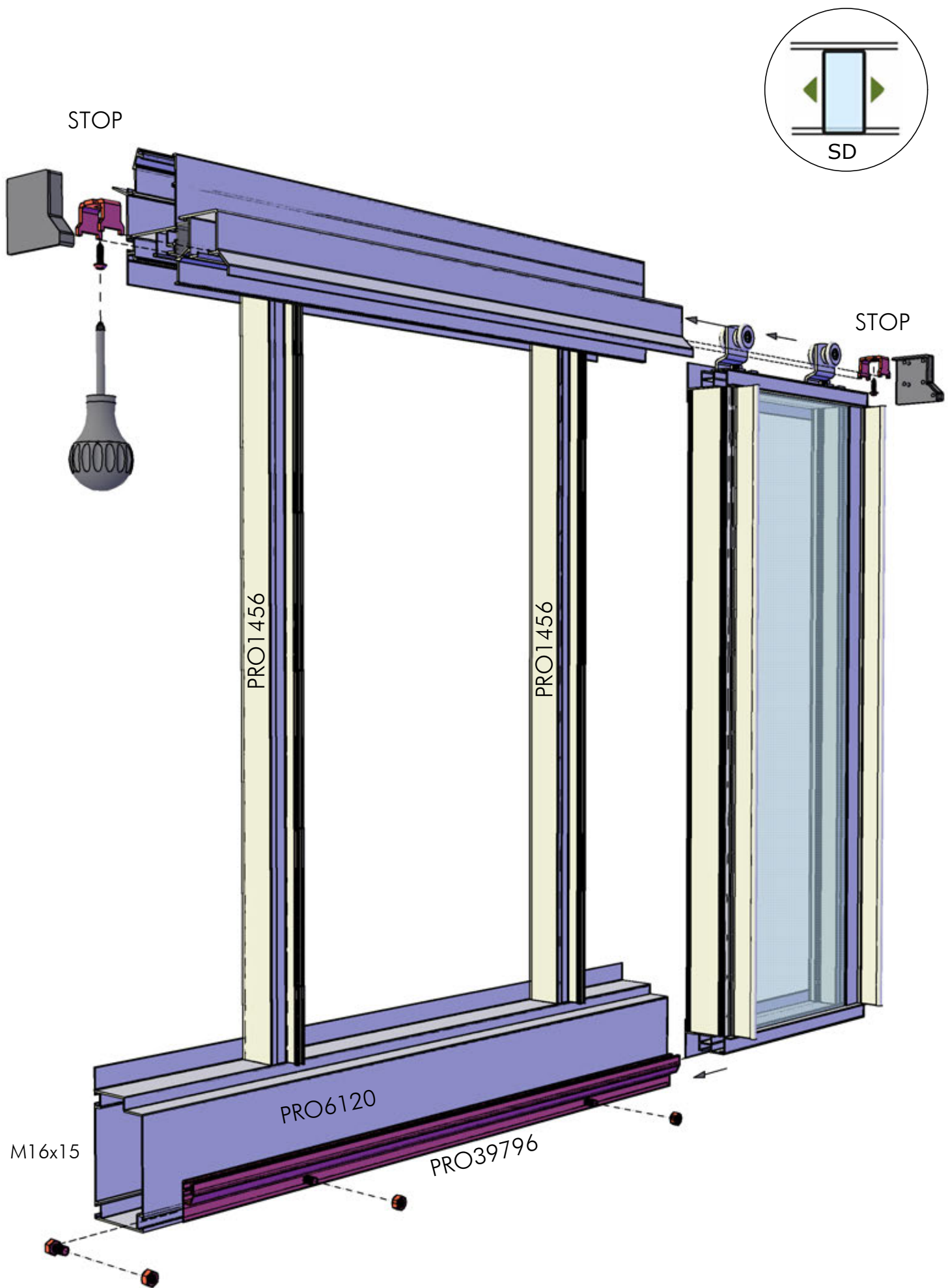
SD

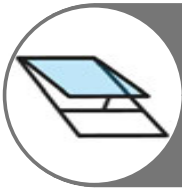


SD_1





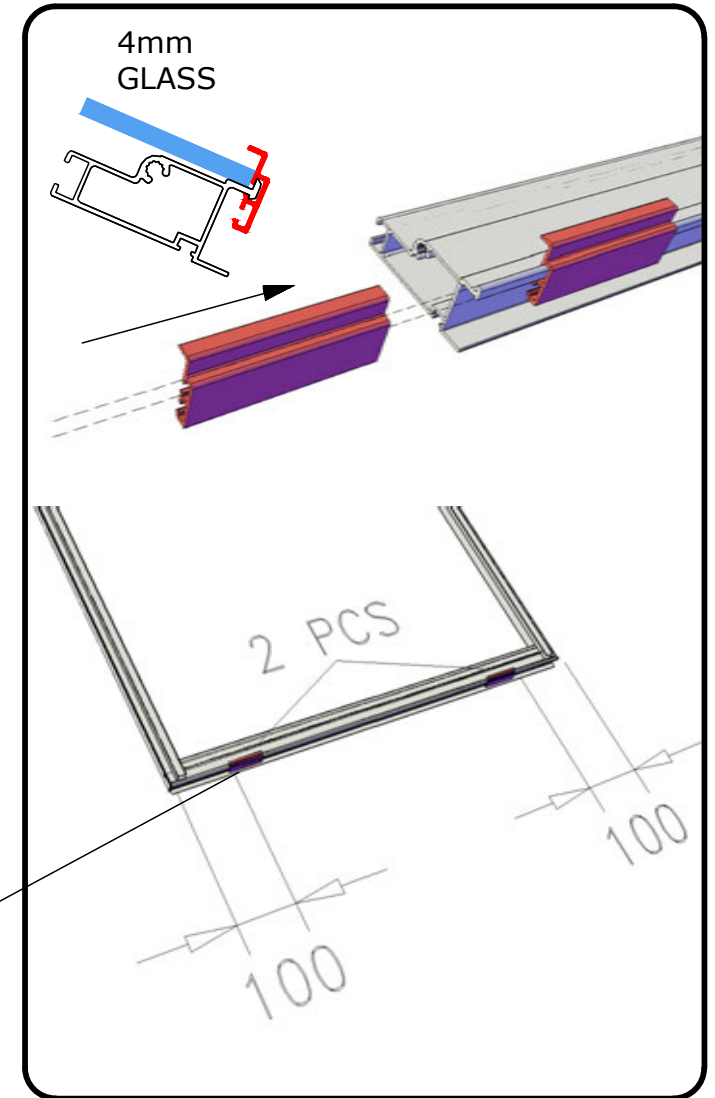
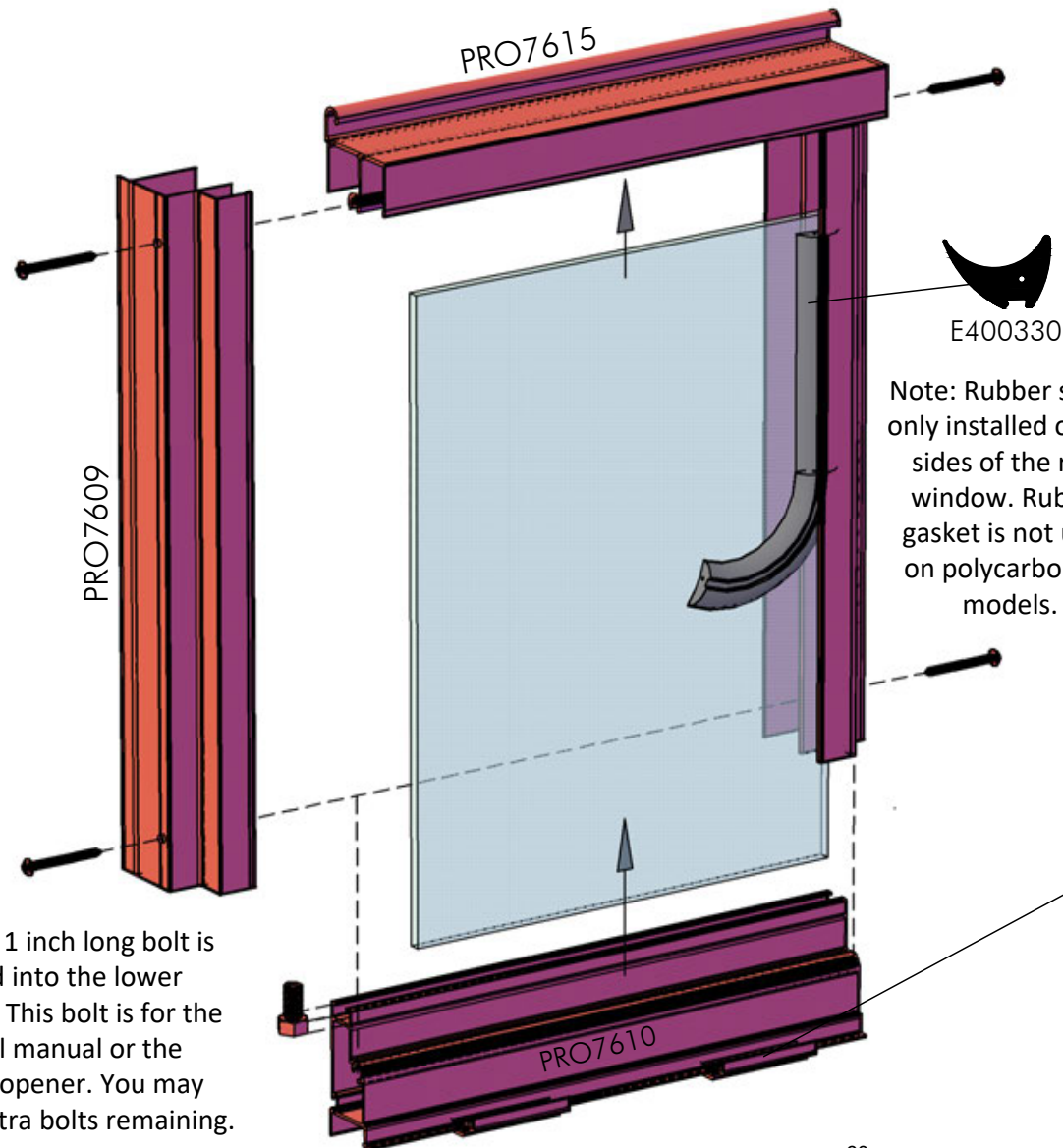




Roof Window /Vent -

all hardware will be included in roof vent package -
including crossbar to frame opening

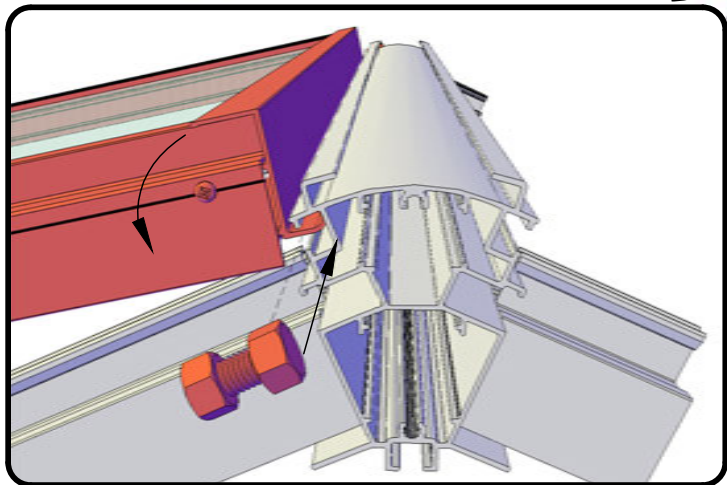
RW



Roof Window Installation

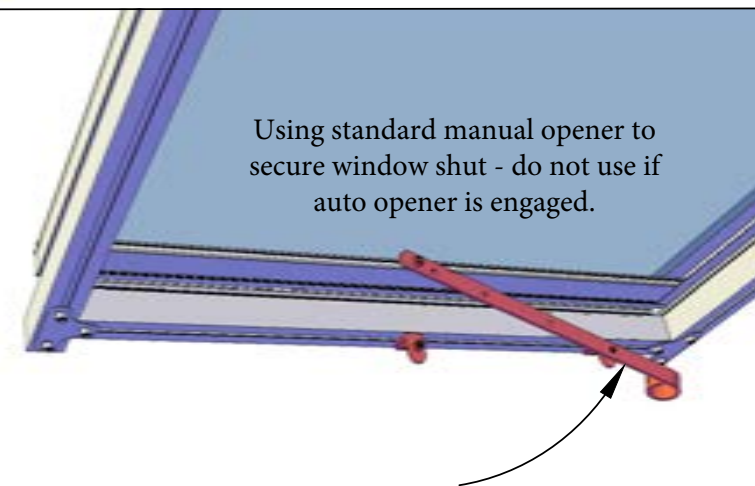
Note: Inserting a bolt/nut on both sides of the roof window will prevent it from moving side to side once it is in place.

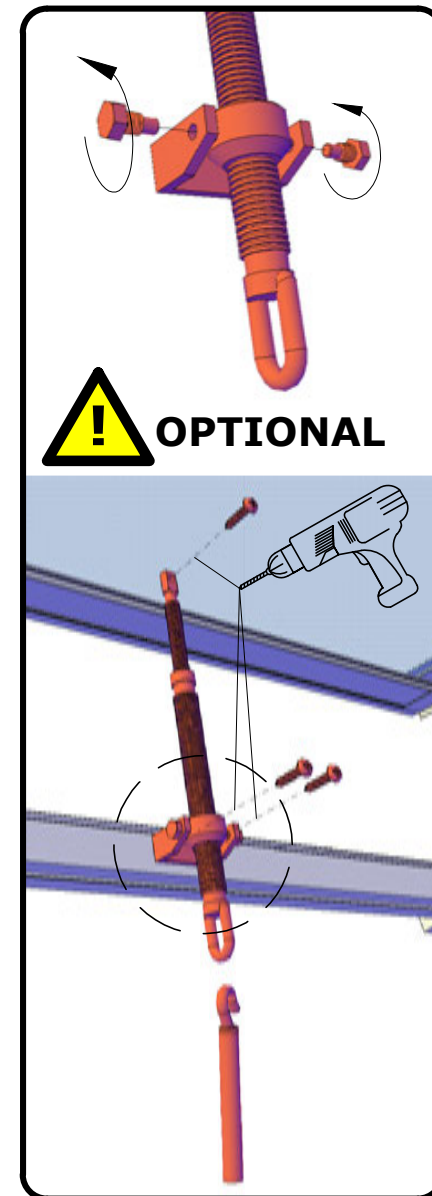
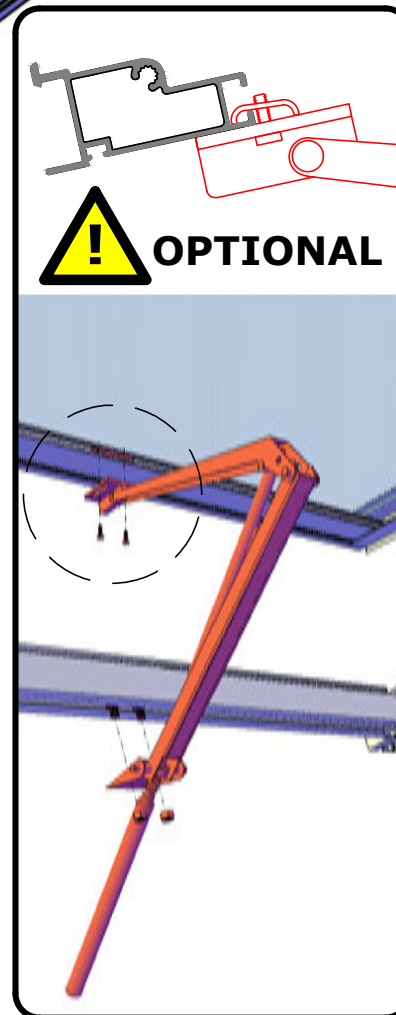
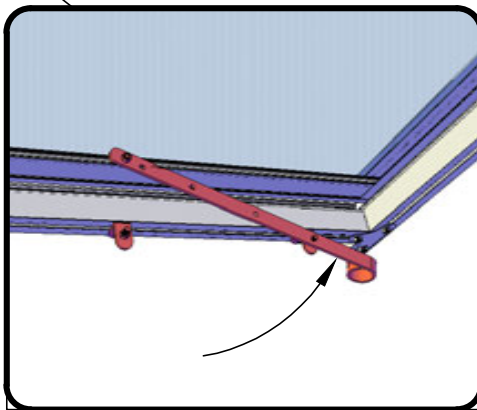
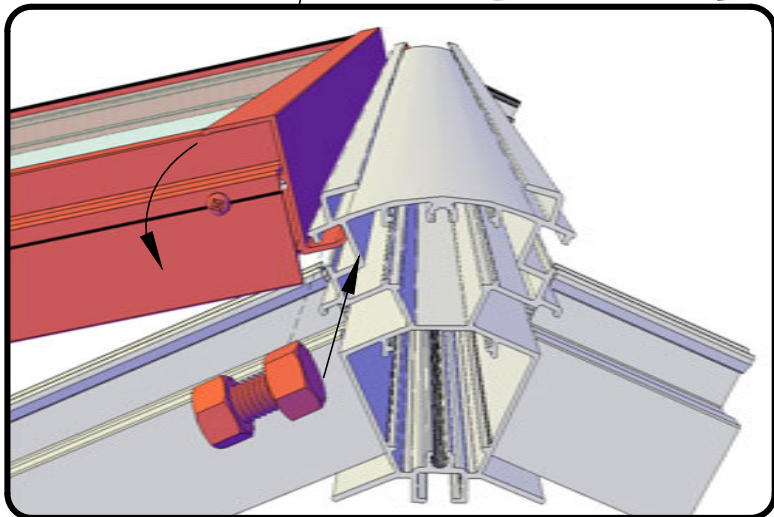
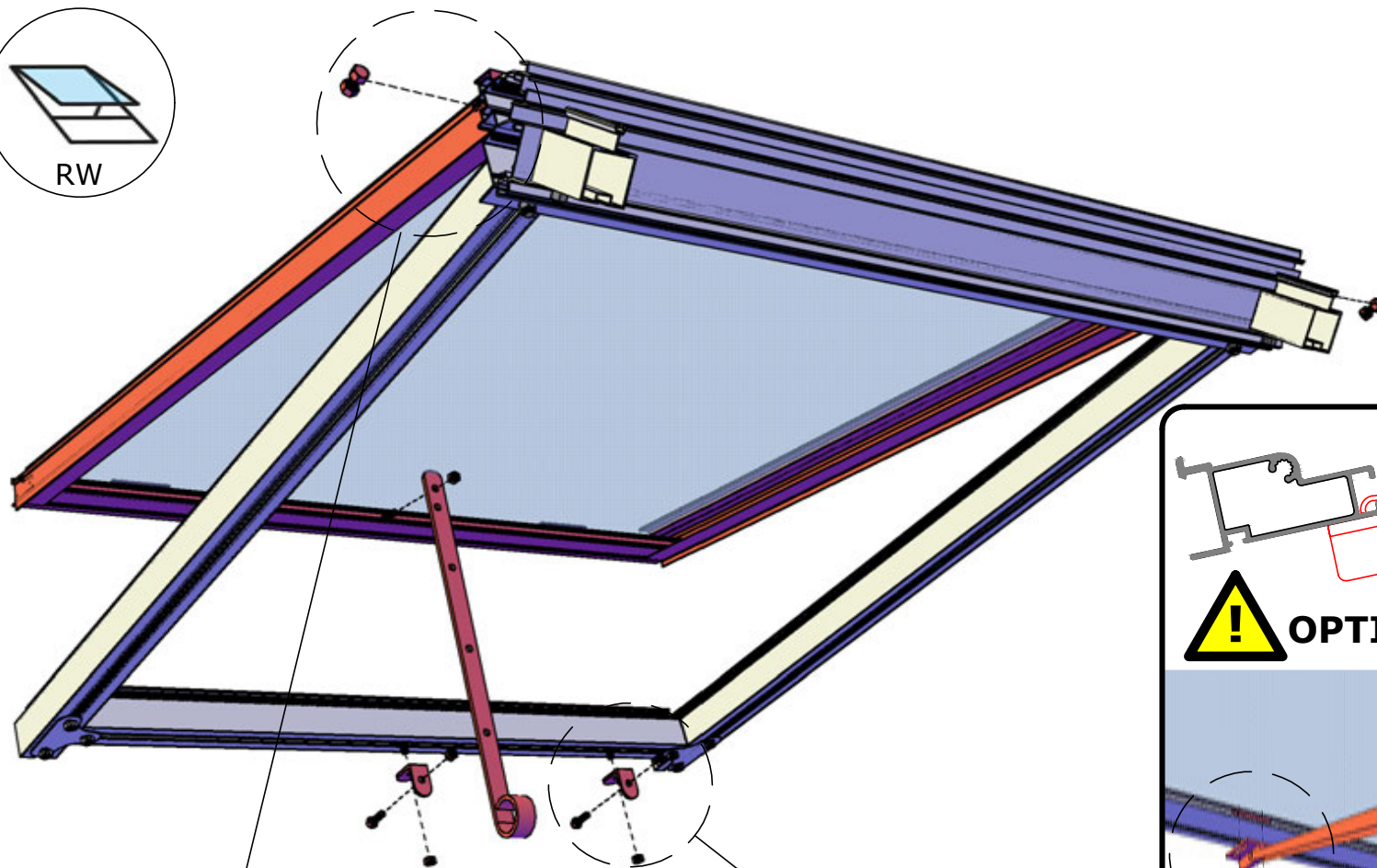
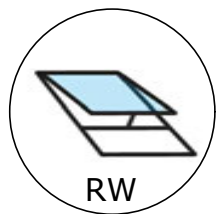
Standard manual opener shown (generally not installed). However, it may be used to secure the window in the closed position - auto opener **MUST** be detached.



TO INSTALL: Slide window into the ridge beam from either end of the greenhouse. The "hook" on the top of the roof window profile will slide into the channel of the ridge beam (shown to the left).

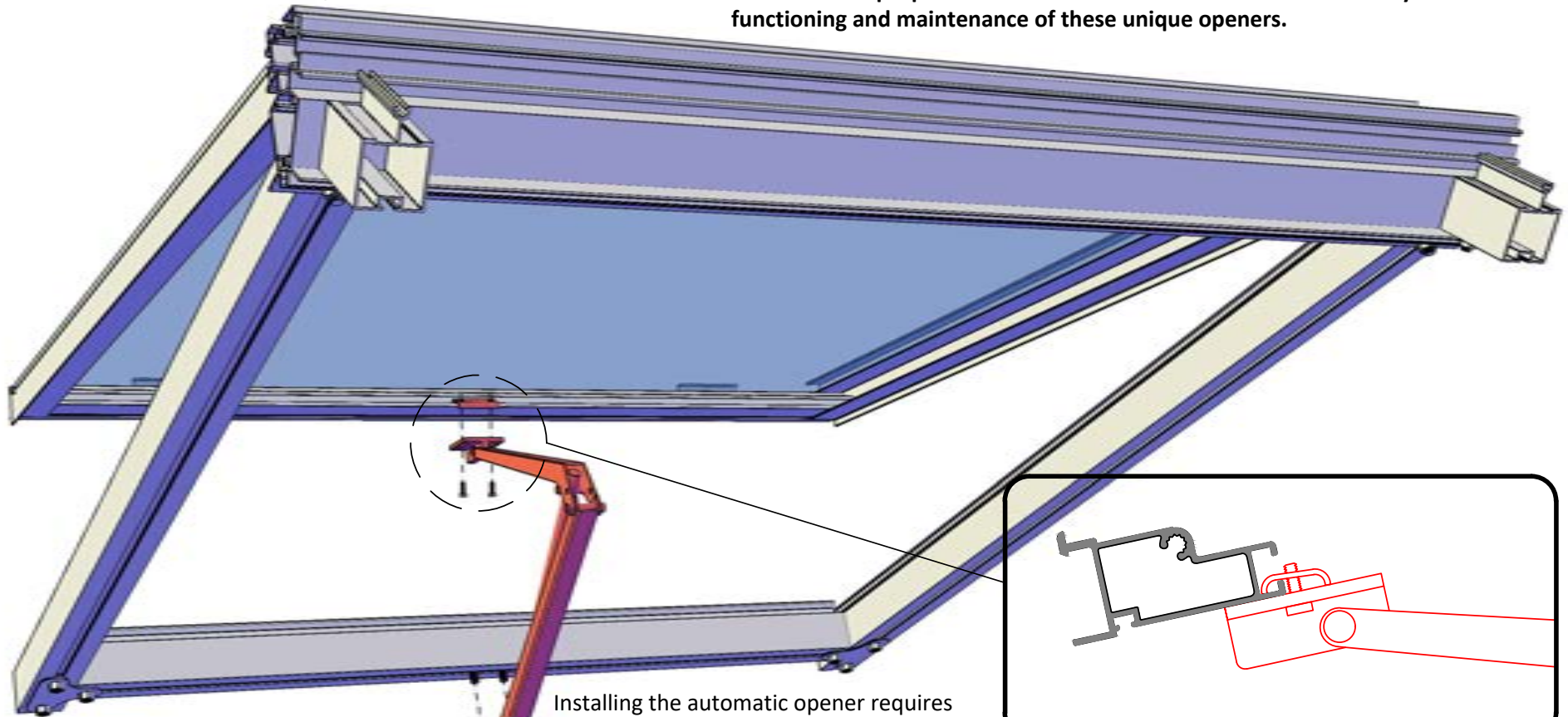
Using standard manual opener to secure window shut - do not use if auto opener is engaged.





OPTION: Auto Opener (Ventomax)

IMPORTANT! Read installation instructions included in your Ventomax auto opener box to ensure proper installation. There is also information to fully understand the functioning and maintenance of these unique openers.



The Ventomax openers work with an oil filled piston (black cylinder). The oil begins to expand around 72 degrees and will push out and open your window when the temperature in the greenhouse is above 75 degrees (outdoor temp will likely be cooler).

Installing the automatic opener requires 2 bolts to be inserted into the roof crossbar for the lower mount. The upper mount will clamp onto the window profile. (Shown to the right)

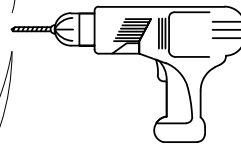
If you are struggling to install your piston and it is above 70 degrees, place the piston in cold water/ fridge for 10 minutes so the rod can retract.

Oil piston rod 2-3 times/year with a light oil such as WD40 or even olive oil.



OPTION: Spindle Manual Opener

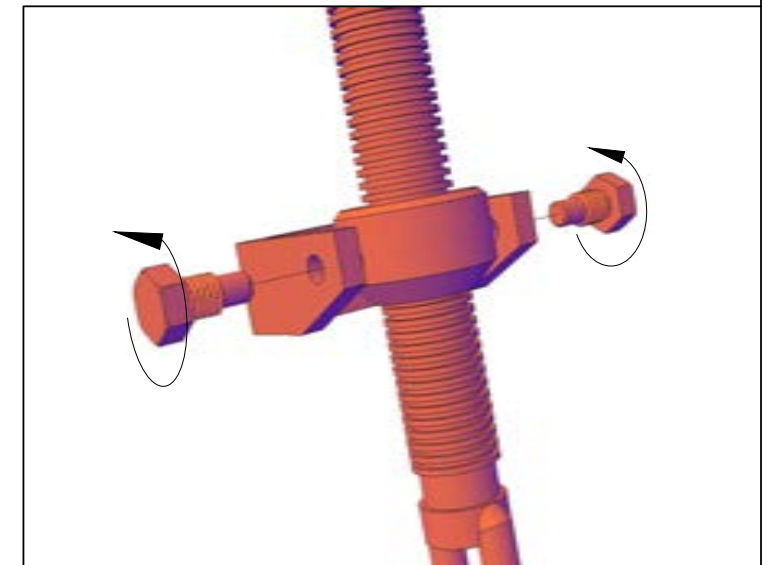
Installation Option 1:
Mount top of opener to
window with a screw



Installation Option 2: Insert a 1 inch long bolt into
lower roof window channel. Slide to the center and
lock it in place with a nut as shown below.

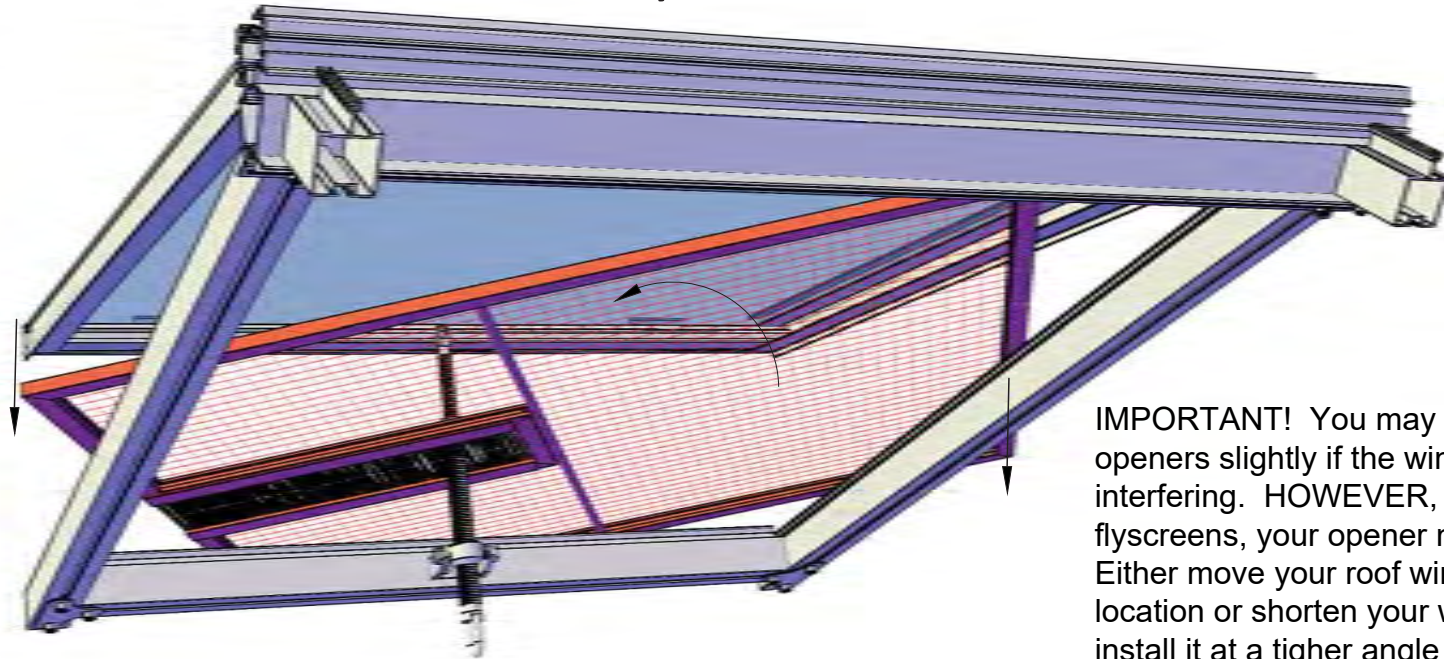


Next, hold the lower U-shaped mount up to the crossbar and mark the center of one hole. Using a 1/8" drill bit, drill the first hole, then screw the bracket on, check for level - then mark and drill the second hole. Slide the brass part of the opener over the bolt in the window channel. Use the supplied nylock nut to secure the opener on the top mounting bolt. Finally thread the large side bolts into the U-shaped mount and the opener is installed.

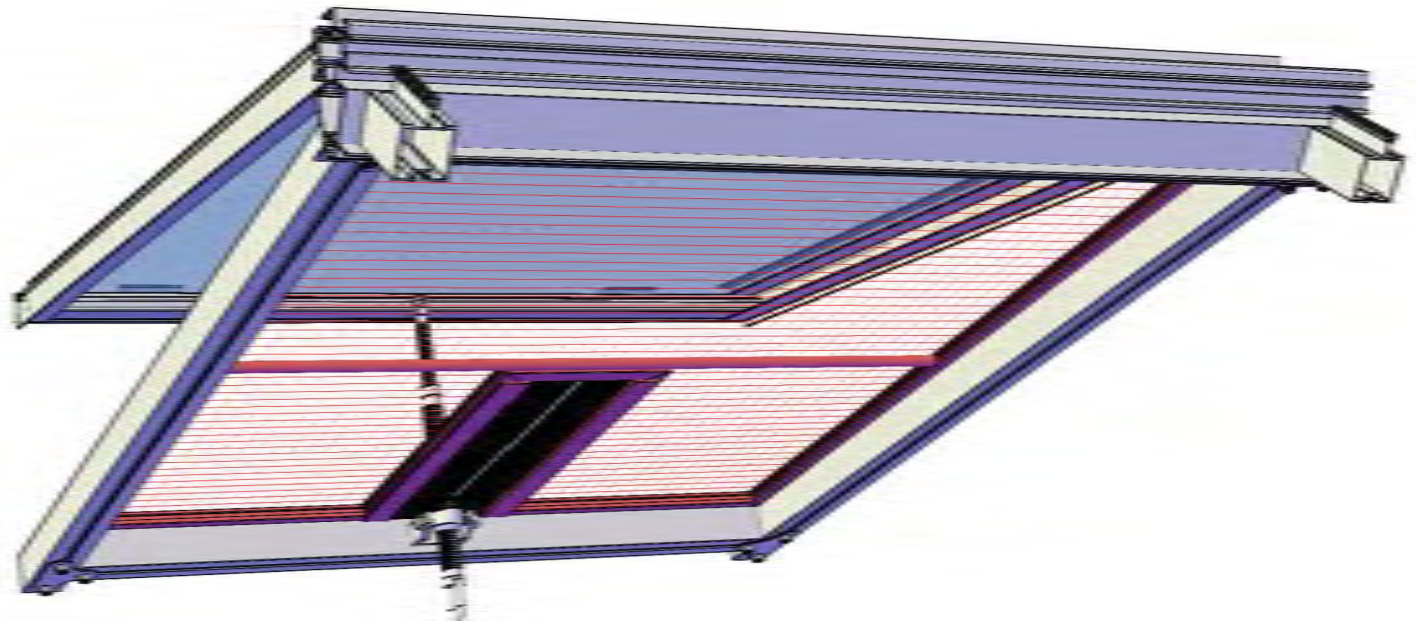




OPTIONAL UPGRADE: Fly screen for roof vent



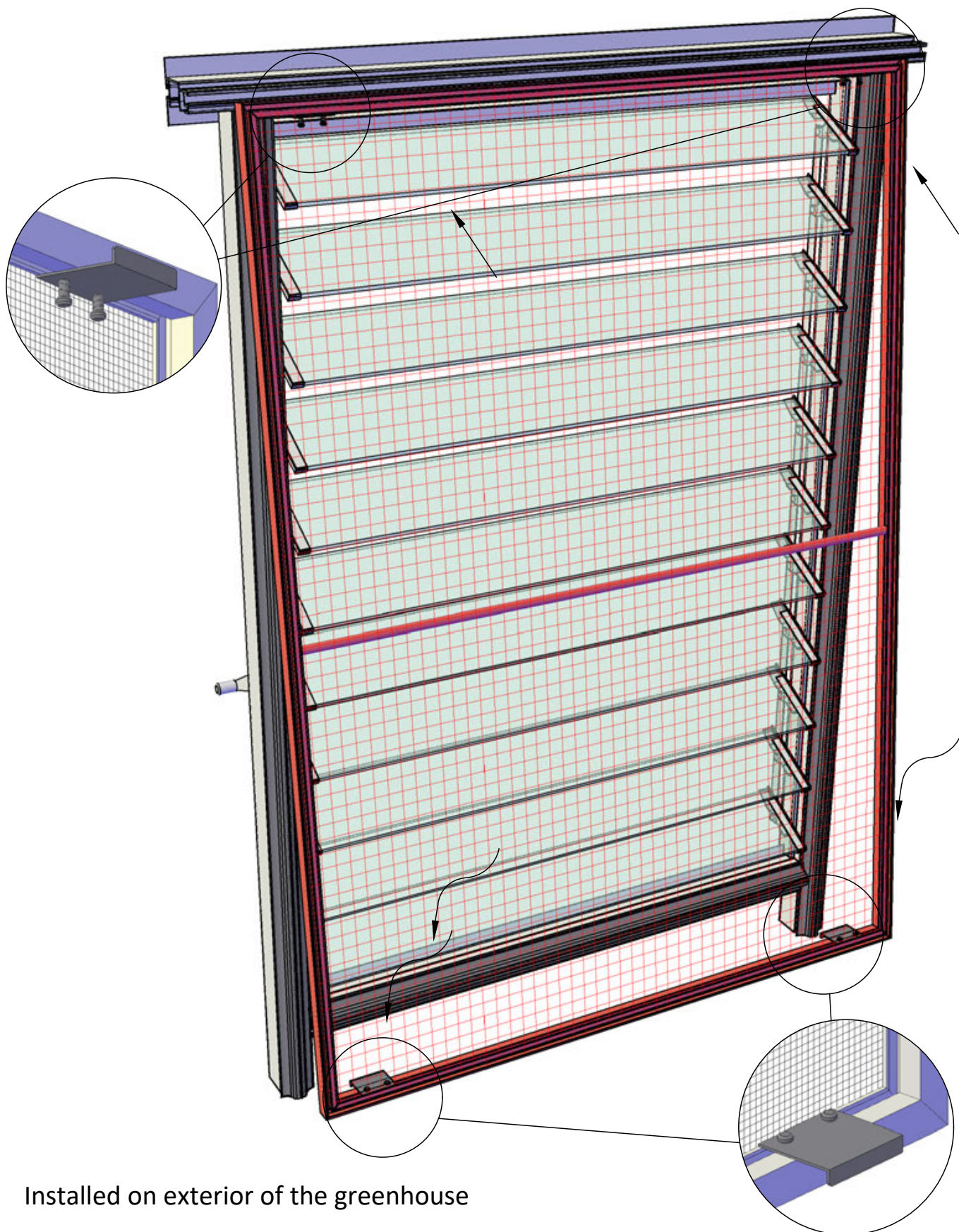
IMPORTANT! You may offset your auto openers slightly if the wind braces are interfering. **HOWEVER**, if you have purchased flyscreens, your opener must be centered. Either move your roof window to a different location or shorten your wind strap slightly to install it at a tighter angle on the gutter flange.





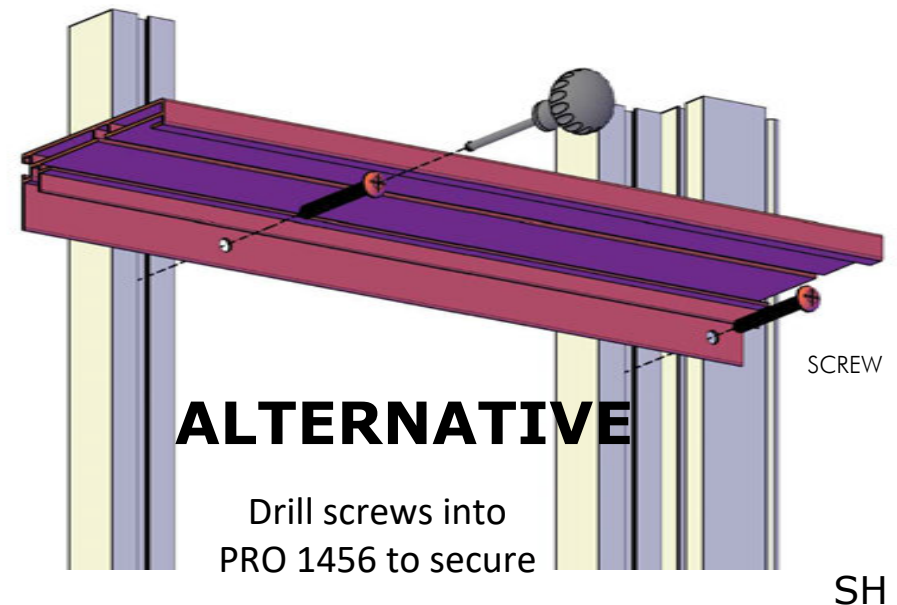
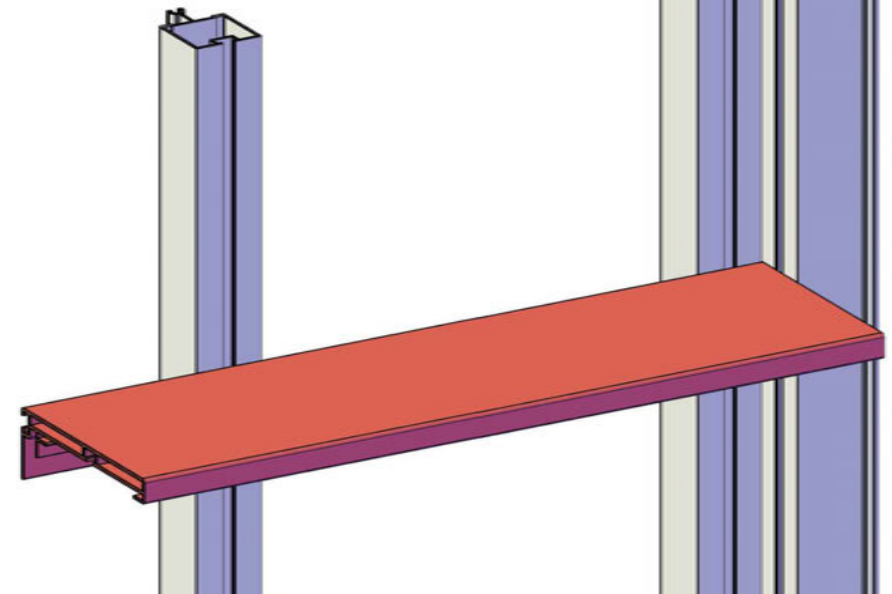
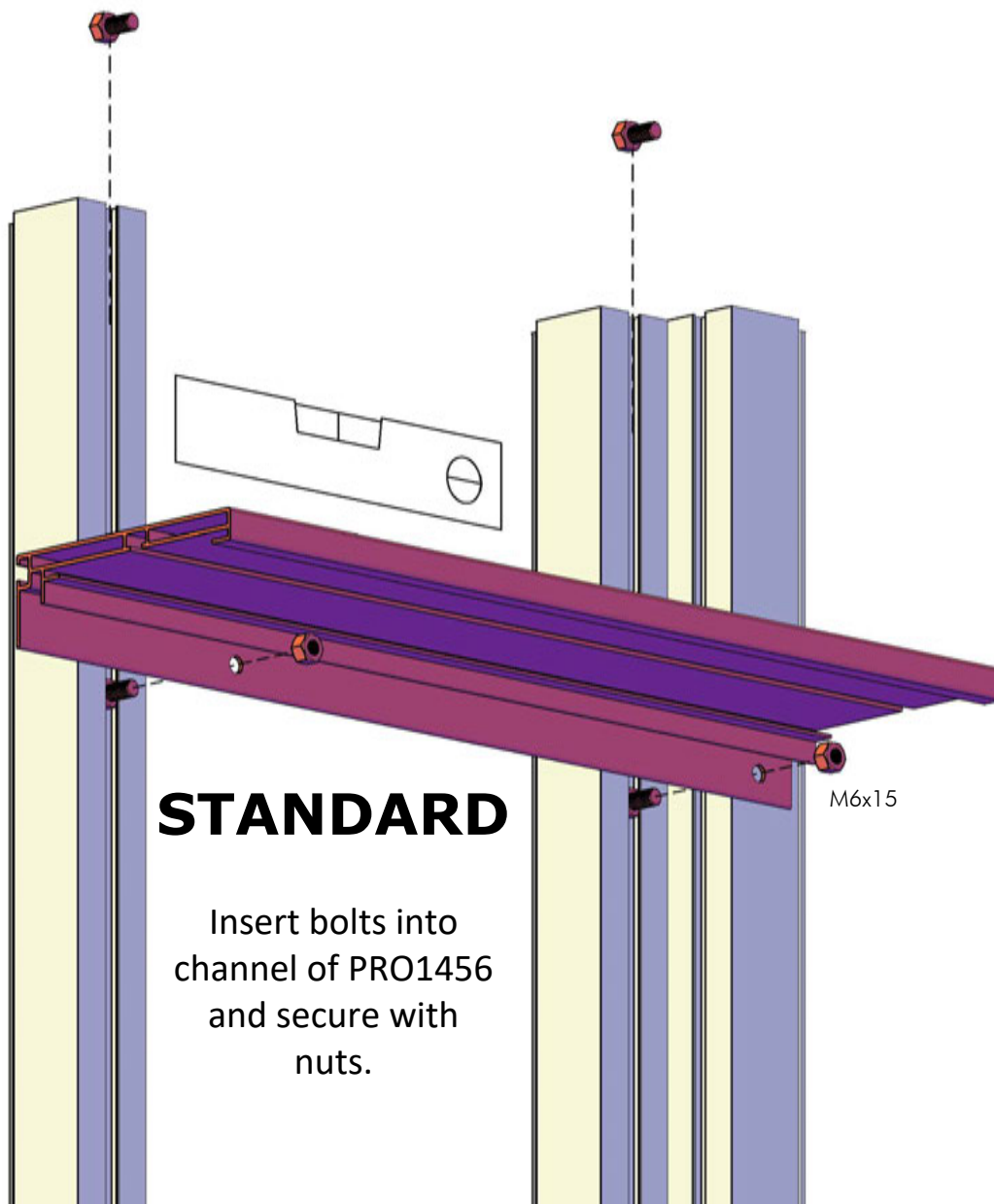
OPTIONAL UPGRADE: Louvered Window Fly Screen

FLV

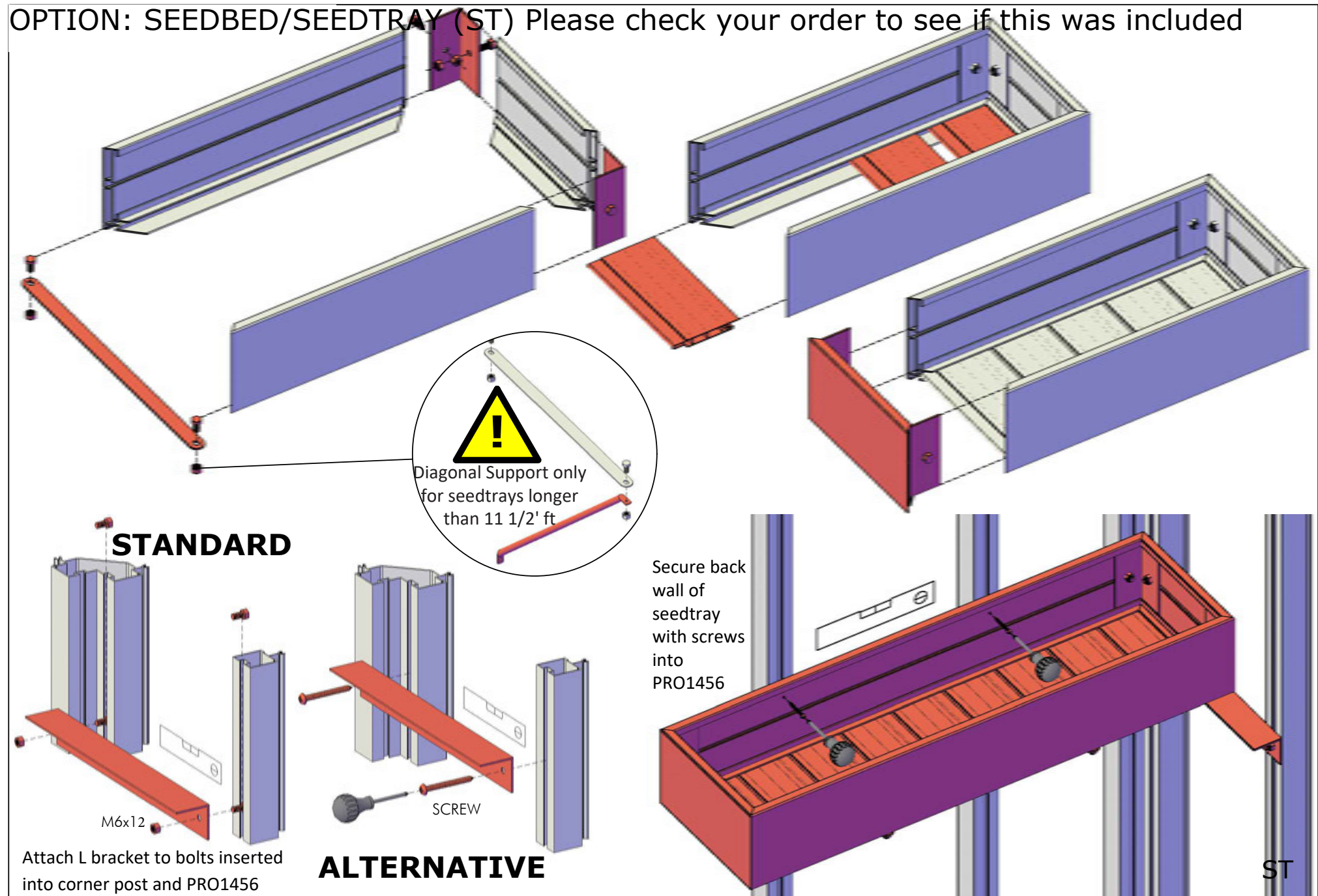


Installed on exterior of the greenhouse

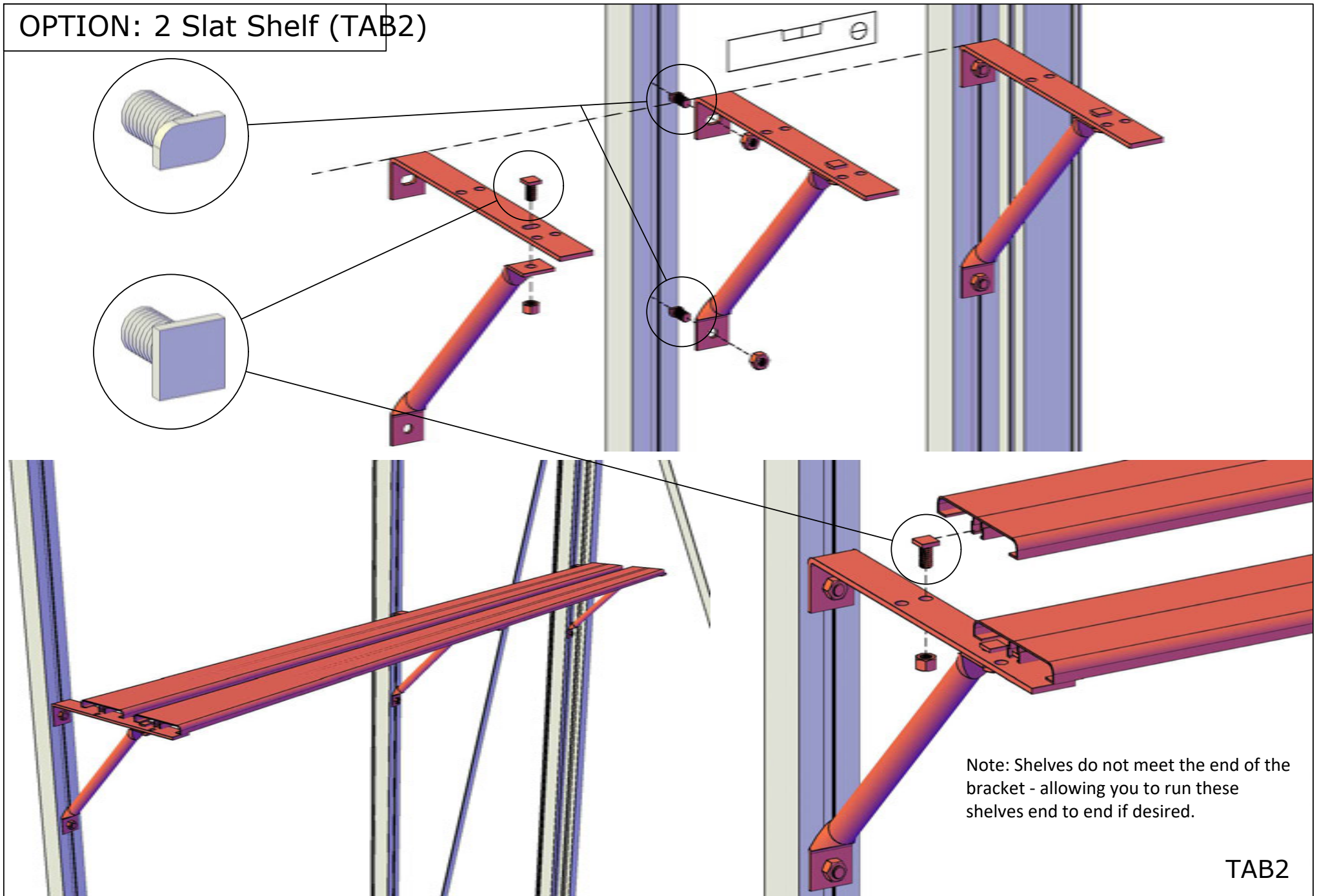
OPTION: Narrow Top Shelf - please check your order to see if this is included



OPTION: SEEDBED/SEEDTRAY (ST) Please check your order to see if this was included

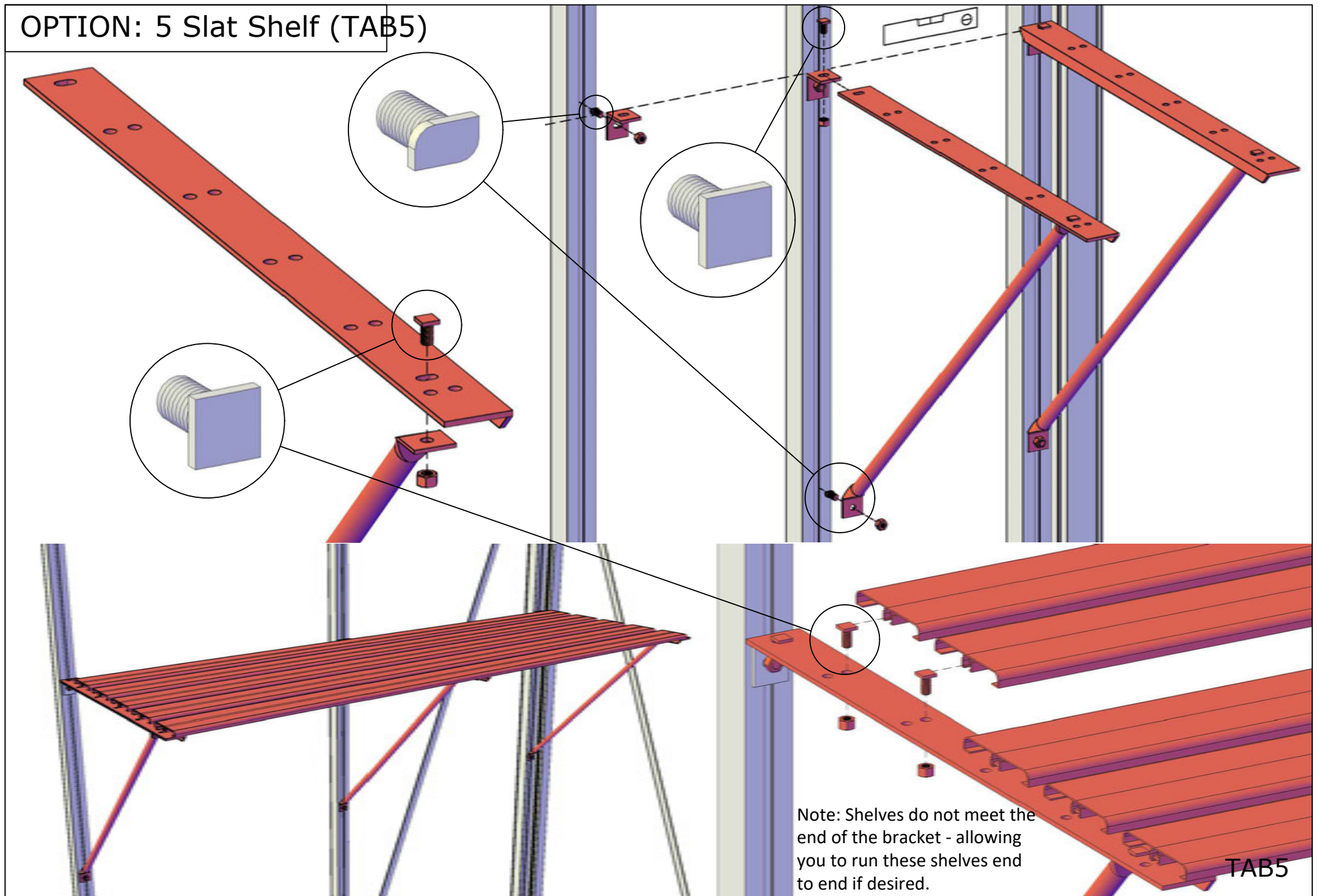


OPTION: 2 Slat Shelf (TAB2)









TAB2

OPTION: 5 Slat Shelf (TAB5)



Misting System (If Equipped)

TYPE Vi23 **310** Vi34/36 **458**

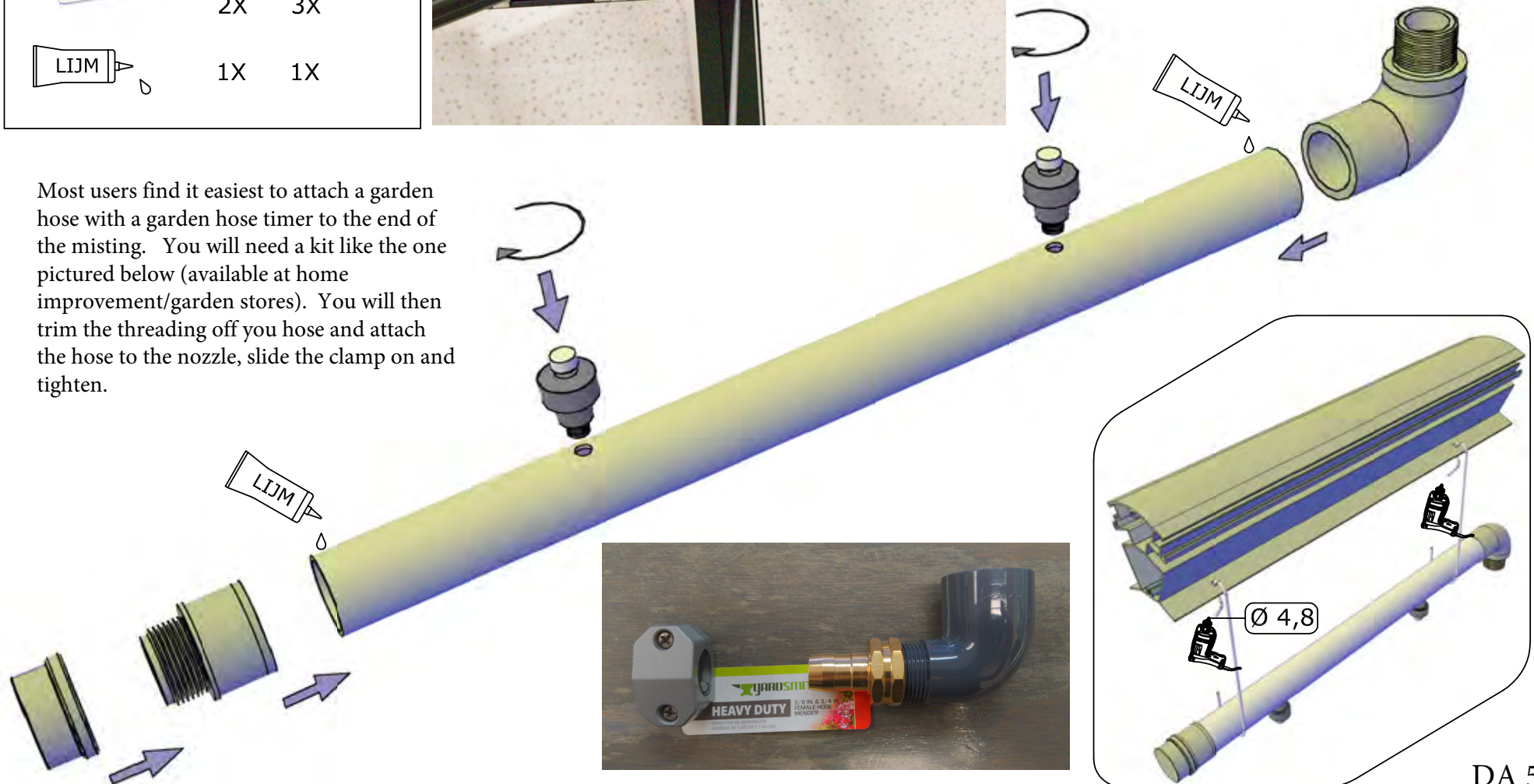
	3X	4X
	1X	1X
	1X	1X
	2300	3300
	2X	3X
	1X	1X



Note: If curtains are going to be installed, the misting system should be hung with bolts as shown to the left. The hangers will need to be bent into position.

If there are no curtains it can be hung by drilling holes and hooking the hangers through them. (Shown below)

Most users find it easiest to attach a garden hose with a garden hose timer to the end of the misting. You will need a kit like the one pictured below (available at home improvement/garden stores). You will then trim the threading off your hose and attach the hose to the nozzle, slide the clamp on and tighten.



DA 5

INSTALLING AN EXHAUST FAN IN A VICTORIAN GREENHOUSE

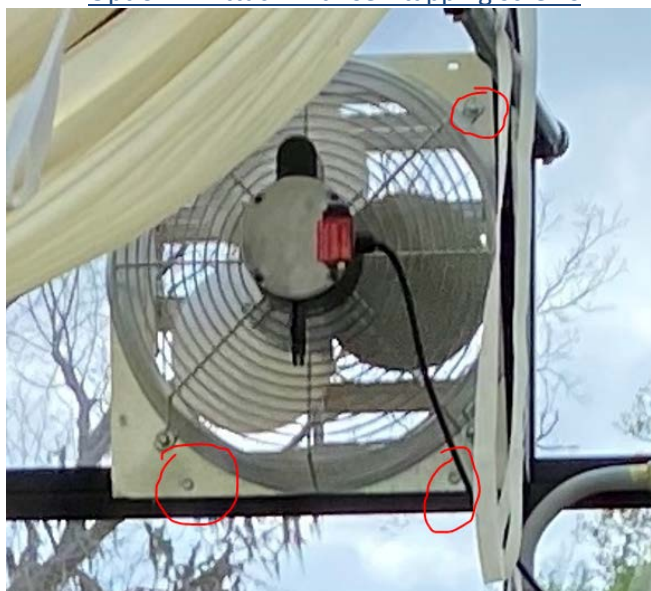
The exhaust fan in a Victorian Greenhouse should be installed up high in one of the gable ends of the greenhouse. If you happen to have polycarbonate walls on your Victorian, you may cut an opening in the polycarbonate to accommodate the fan. If you have glass glazing, we recommend replacing one of your upper angled gable panes with a piece of Lexan. We do offer a precut panel for purchase that is cut with this unusual shape (with a square cut out) that will replace one of the gable panes of glass.

OPTION 1: Attach fan with bolts inserted into channel of PRO1456



Once your panel with the cutout for the fan is in place, mount the fan on the interior of the greenhouse using bolts in the channels of the aluminum extrusions. These bolts will fit through the holes on the exhaust fan. You may need to cut the corner off due to the diagonal support beam being in the way. Once the fan is mounted on two sides to the aluminum extrusions caulk around the area where the box of the shutters meets the glazing.

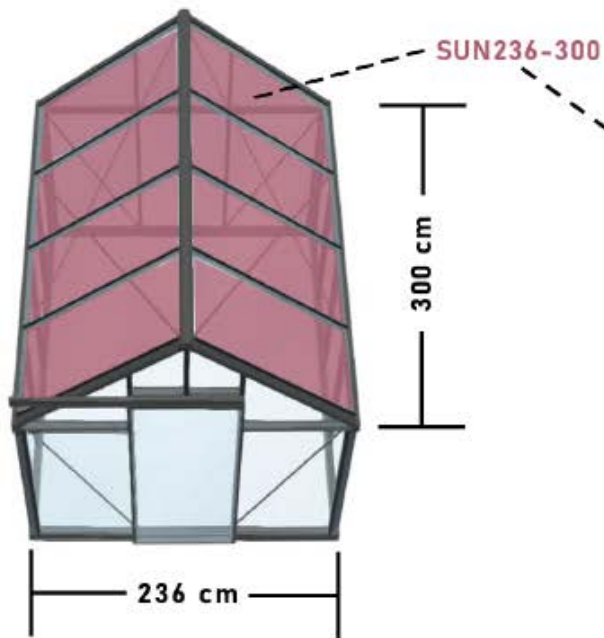
Option 2: Attach with self-tapping screws



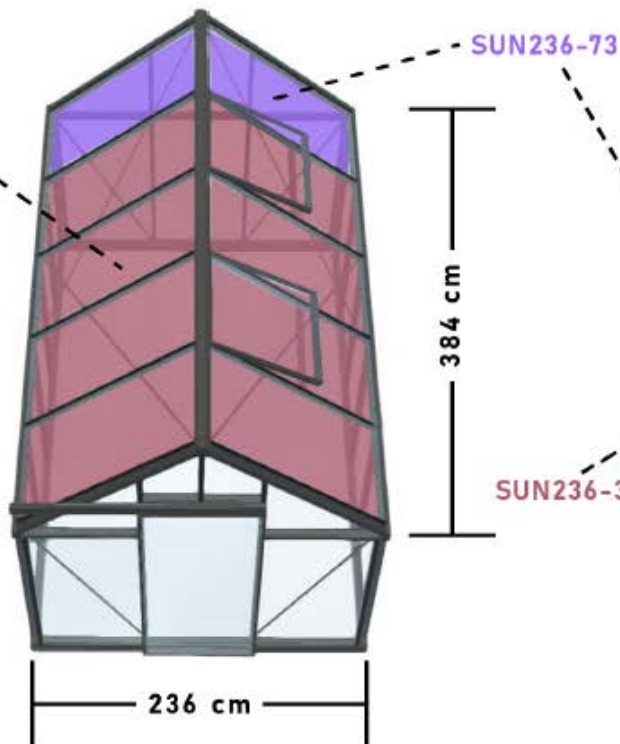
Conversely, you can use self-tapping screws to hold the Exhaust Fan in place. Pre-drill holes in the exhaust fan metal to match up with the Pro1456 Gable piece. You may need to cut the corner off due to the diagonal support beam being in the way. Once the fan is mounted on two sides to the aluminum extrusions caulk around the area where the box of the shutters meets the glazing.

VICTORIAN CURTAIN GUIDE

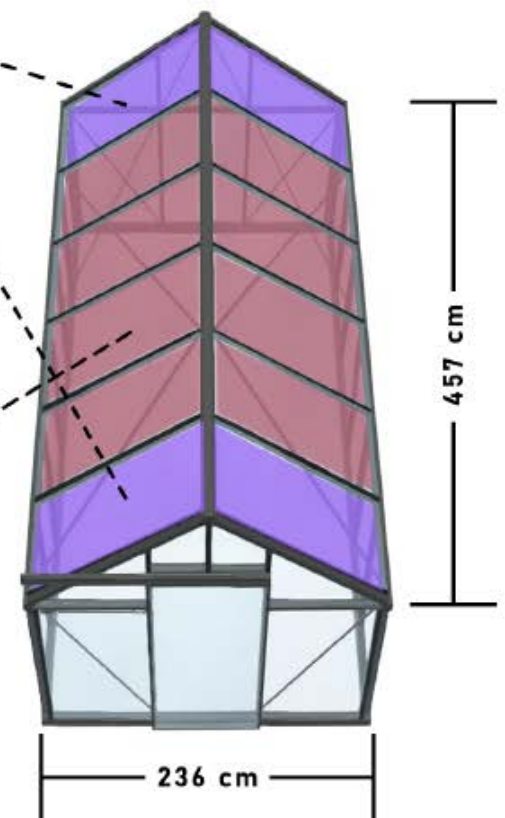
J-VIC 23



J-VIC 24



J-VIC 25



J-VIC 23: Is one shade cloth section of **SUN236-300**

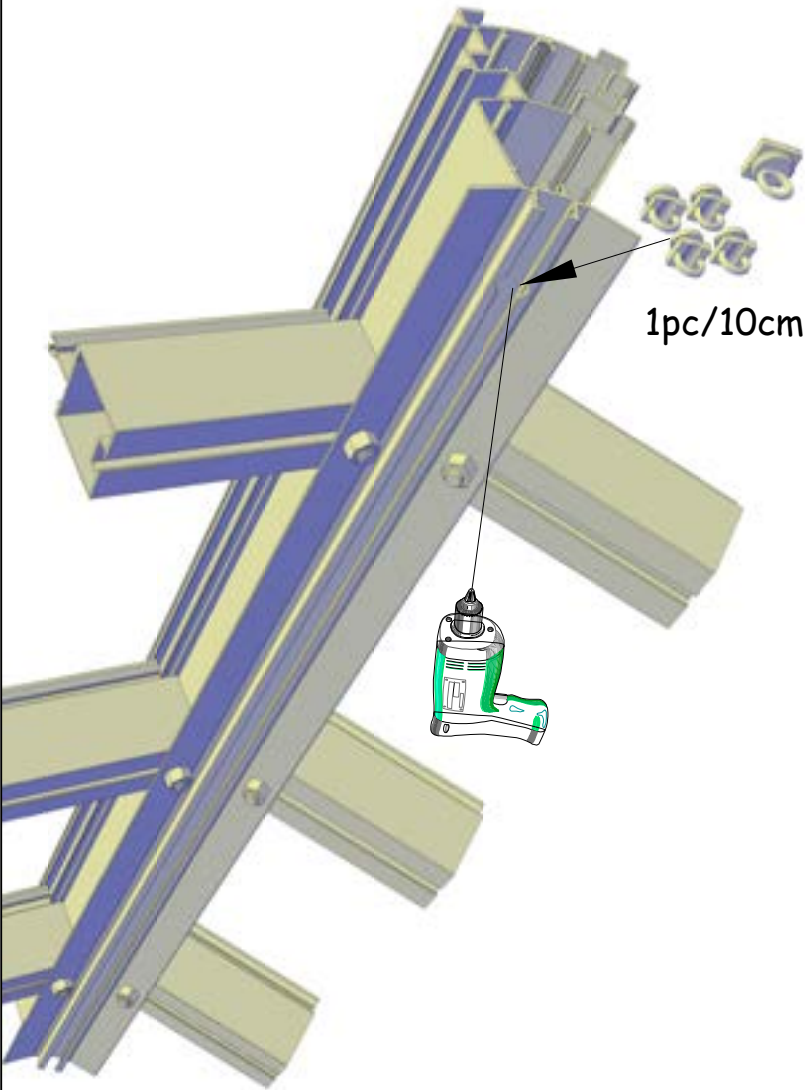
J-VIC 24: Is one shade cloth section of **SUN236-300** and one shade cloth section of **SUN236-73**



J-VIC 25: Is two shade cloth sections of **SUN236-73** and one shade cloth section of **SUN236-300**

OPTION: Shadecloth

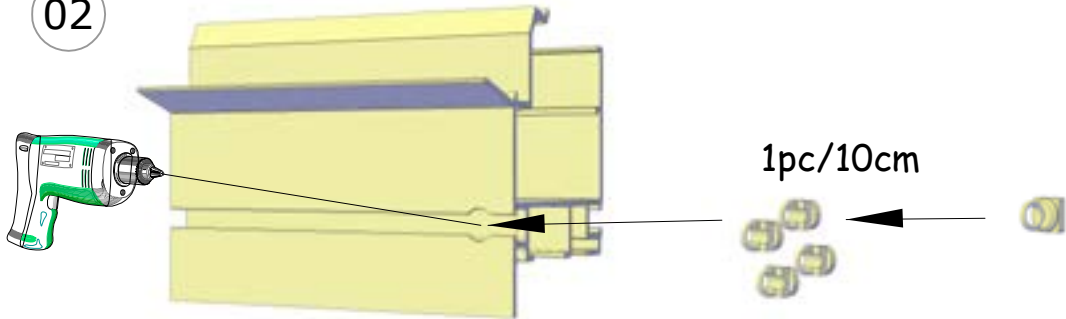
May be added after assembly - you will need to notch the ridge and gutter profile channels with a 1/2" drill bit. See next page for curtain sliders insertion instructions specific to your model.

01

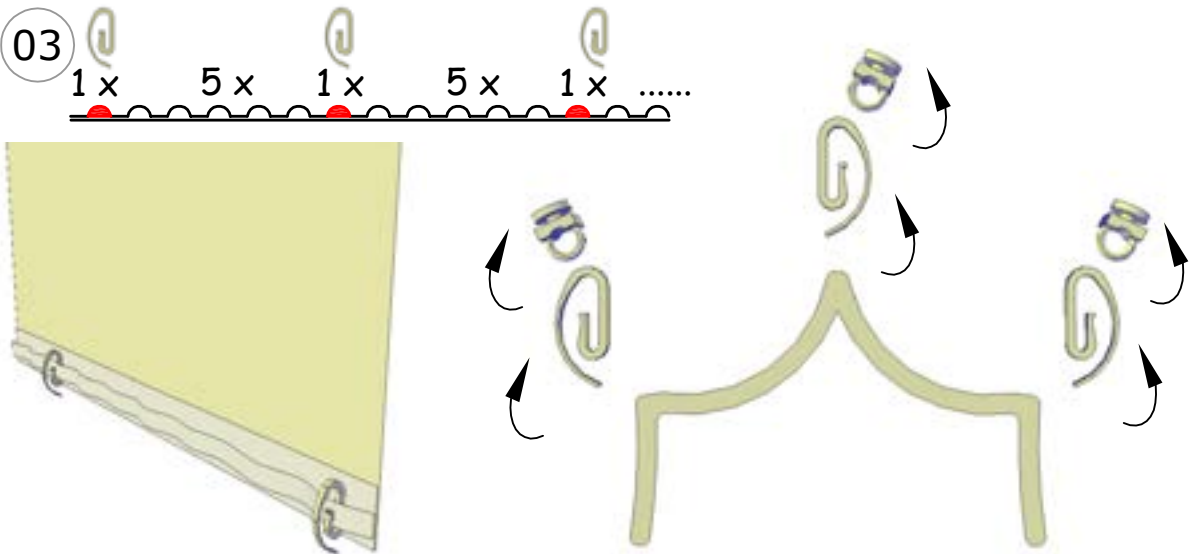


TYPE	SUN236_73	SUN310_73	SUN236_300	SUN310_300
	24 pcs	24 pcs	93 pcs	93 pcs
	24 pcs	24 pcs	93 pcs	93 pcs

02



03



OPTIONAL ACCESSORY: SHADECLOTH

Inserting the curlicue hooks into the curtain: The curlicue hooks that insert into the curtain will go in every 6th loop in the white ribbon— look at the picture diagram to ensure you are inserting them in the correct direction so the curtain hangs well. Your curtains will have one looped ribbon running across the center (for the ridge) and 3 white looped ribbons on either side. Please note in the 10 ft long curtains there are 2" gaps located about 30" in from each edge along the center ridge ribbon, this is not a defect. These gaps are intentional to allow for misting system support hooks and diagonal supports (as needed for various models). **Please note: if you have forgotten to insert any items during assembly, you may "notch" the channel with a ½" drill bit in an inconspicuous place. We can send a touch up paint pen if you need one.**

JVIC 23 (7'8" x 10'2")

Has on shade cloth (1) SUN236-300. Insert the following in this order:

- In ridge profile:
 - 1 bolt (for L bracket that connects at gable end)
 - 1 twist lock (optional)
 - 31 Sliding Eye Hooks
 - Twist lock (optional)
 - 1 bolt (for L bracket that connects at gable end)
- In each gutter profile:
 - 1 Twist lock (optional)
 - 31 Sliding Eye Hooks
 - 1 Twist lock

JVIC 24 (7'8" x 12'6")

Has two separate curtains – (1) SUN236-73 (this smaller section goes at one gable end) and (1) SUN236-300. Insert the following in this order:

- In ridge profile:
 - 1 bolt (for L bracket that connects at gable end)
 - 1 twist lock (optional)
 - 39 Sliding Eye Hooks
 - Twist lock (optional)
 - 1 bolt (for L bracket that connects at gable end)
- In each gutter profile:
 - 1 Twist lock (optional)
 - 39 Sliding Eye Hooks
 - 1 Twist lock

JVIC 25 (7'8" x 15')

Has two separate curtains – (2) SUN236-73 (this smaller section goes at one gable end) and (1) SUN236-300. Insert the following in this order:

- In ridge profile:
 - 1 bolt (for L bracket that connects at gable end)
 - 1 twist lock (optional)
 - 47 Sliding Eye Hooks
 - Twist lock (optional)
 - 1 bolt (for L bracket that connects at gable end)
- In each gutter profile:
 - 1 Twist lock (optional)
 - 47 Sliding Eye Hooks
 - 1 Twist lock



Customer Service or
Assembly Questions?

Give us a call
Toll free: 1-877-760-8500
customerservice@exaco.com
Exaco Trading
www.EXACO.com

*Please watch our animated assembly
video on our Exaco Trading Co
YouTube Channel.
Find the link at www.exaco.com*

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