



Exaco edits 06.05.24 Janssens VERSION 2024.1

MOUNTING INSTRUCTIONS

KATHEDRAL

Note: This is an all-inclusive manual. It shows optional accessories and customizations that may not apply to your greenhouse. Direct any questions to Exaco.



**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://docs.janssens.be/manuals/kathedral.pdf>



Janssens
since 1946



www.exaco.com

877-760-8500

PRODUCT INFORMATION

Dear customer

Thank you for buying a high-quality aluminium greenhouse.

REMARKS

This manual is intended to be a guidance, showing all kind of standard-solutions that can be useful during mounting. Unlike the other models in our range, this type of house is NOT designed to be a build-it-yourself-kit, it has to be mounted by experienced builders who are familiar with these products and their assembly!

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. Aluminium profiles that are not painted may show black stains, these stains are not a production error: they can be easily removed with a aluminium cleaner available at every good drugstore. 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. During winter the roof has to be cleared of snow or supported in a suitable way. The greenhouse should be built in a location protected from strong winds. Protective gear (such as protective gloves) should be used during mounting in order to avoid injuries. One should at all times pay attention to the local building regulations.

ASSEMBLY ORDER

The assembly procedure is the same for all our greenhouses.

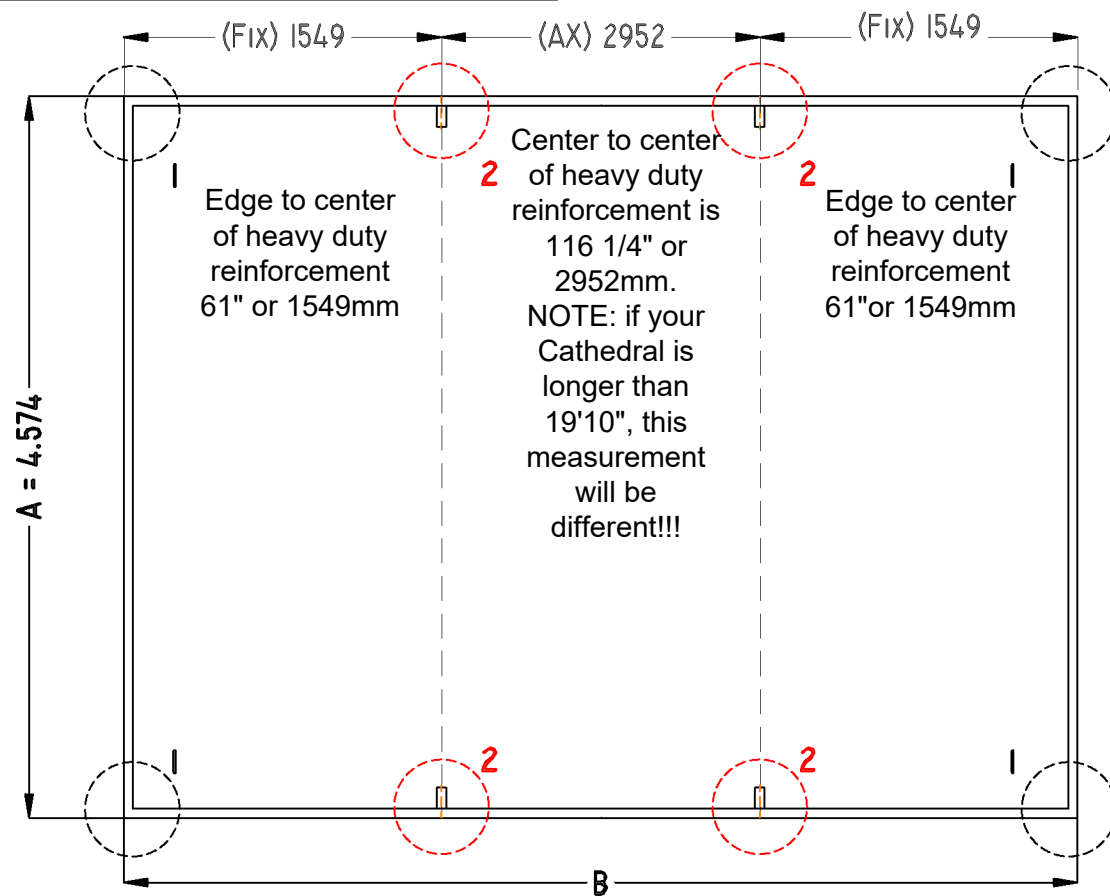
- Sorting of the profiles according the model.
- Mounting of the complete aluminium construction.
- Leveling of the construction using a waterlevel.
- Securing the building to the ground
- Glazing.

REQUIRED TOOLS

Socket wrench nr. 10 or spanner nr. 10, water-level, screwdriver, drilling machine + drill 4.2 mm, scissors (to cut the rubber).

We reserve the right to change the construction without prior notice!

" KATHEDRAL "

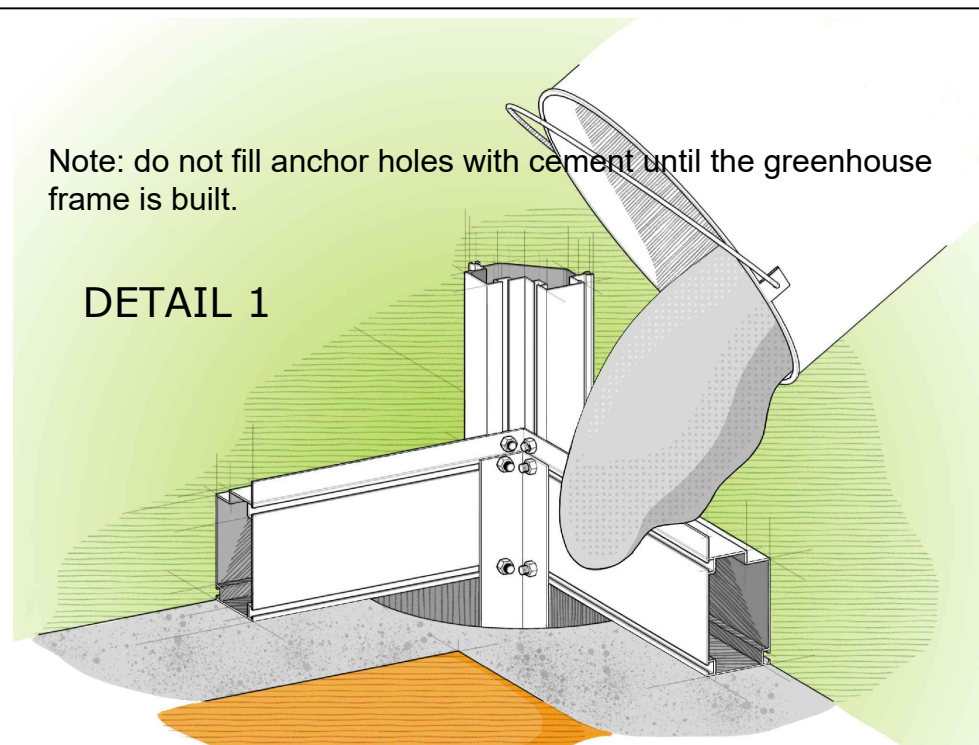


A	X	B
*4574	*6050 or 238" or 19'10"	
or 180 inches	6788	
or 15 feet	7526	
	8264	
	9002	
	9740	
	10478	
	11216	
	11954	

Our standard Cathedral is 4574mm x 6050mm or 180" x 238". There are corner anchors that hold the corners together and extend 12" down into the ground. There are also heavy duty portal reinforcements that support the roof structure. These are shown at detail 2 above and to the right. For our standard model the measurements above labeled (FIX) and (AX) are the measurements from exterior to center point of the heavy duty reinforcements.

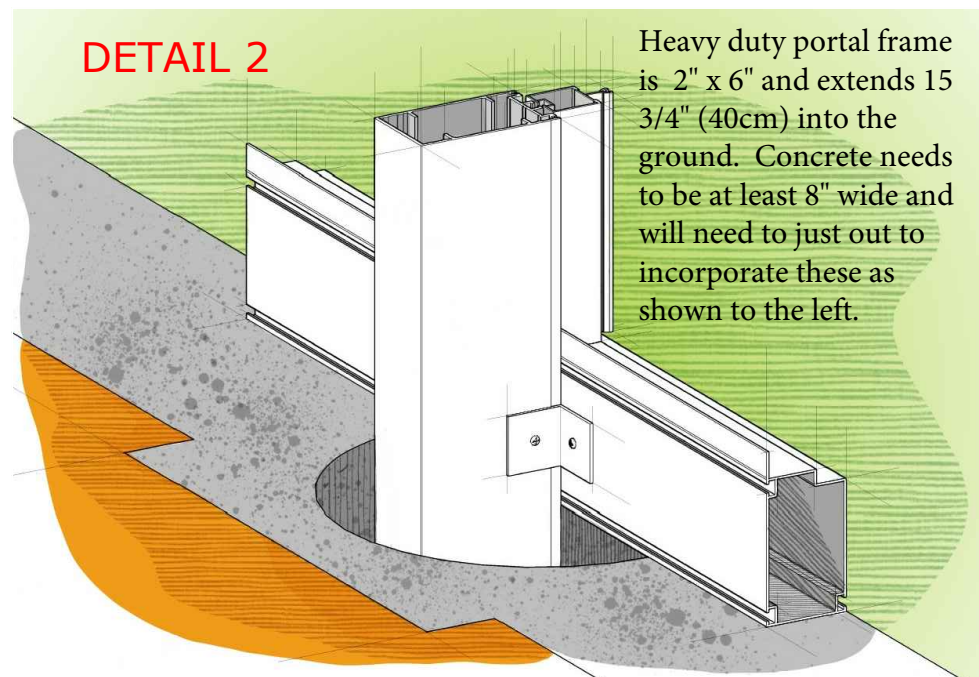
Note: do not fill anchor holes with cement until the greenhouse frame is built.

DETAIL 1



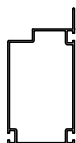
Concrete needs to be at least 8" wide

DETAIL 2

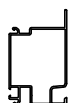


Heavy duty portal frame is 2" x 6" and extends 15 3/4" (40cm) into the ground. Concrete needs to be at least 8" wide and will need to just out to incorporate these as shown to the left.

PRO6120
Fundering
Foundation profile



PRO1454
Tussenregel
Hor.gable prof. Orangerie



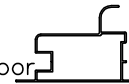
PRO1449
Glaslat var.hoek
Variable glazing bar



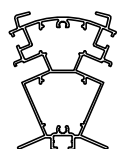
PRO42142
Aanslag draaideur
Siding turning door



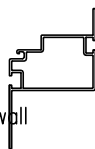
PRO6964
Stolp dub.ddeur
Middel.dub.turn.door



PRO6760
Nok Helios
Ridge profile



PRO37358
Fundering op muurtjes
Special bottomprofile on wall



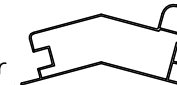
PRO1450
Scharnier var.hoek
Hinge variable glazing bar



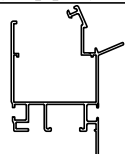
PRO7615
Scharnier dakraam
Topprofile roofwindow



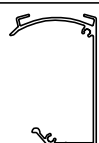
PRO6965
Stolp dub.ddeur
Middel.dub.turn.door



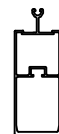
PRO20227
Goot Helios
Gutter Helios



PRO42786
Muurnok Arcadia
Ridge Arcadia



PRO33325
Daklat Arcadia
Roofbar Arcadia



PRO7609
Zijkant dakraam
Sideprofile roofwindow



YSER
Versterking serres
Reinforcement profile



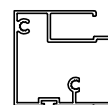
PRO20229
Tussenregel
Horizontal gable profile



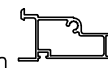
PRO33329
Scharnier nok
Hinge ridge Arcadia



PRO6951
Vert.schuifdeur
Vert.sliding door



PRO7610
Onderkant dakraam
Bottom roofwindow



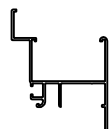
PRO37359
Schap/zaaibak
gordijnkast



PRO1456
Glaslat
Glazing bar



PRO33328
Goot Arcadia
Gutter Arcadia



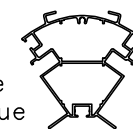
PRO6121
Deurkader hor.
Horizontal prof.sliding door



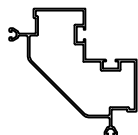
PRO25827
Kader schuifraam
Kader schuifraam



PRO40091
Nok Helios Antique
Ridge Helios Antique



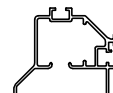
PRO6578
Hoekstijl
Corner profile



PRO33327
Goetscharnier Arcadia
Gutter-hinge Arcadia



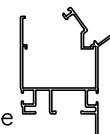
PRO7876
Deurgeleider
Guide sliding door



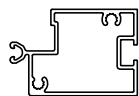
PRO1455
Geleider schuifraam
Guiding sliding window



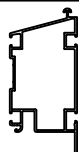
PRO20779
Goot Helios Antique
Gutter Helios Antique



PRO29909
Deurstijl
Doorpost



GDO
Gootdrager
Roofbeam Orangerie



PRO39796
Geleider schuifdeur
Bottom guide slinding door



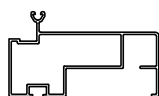
PRO20780
Glashouder
Glas-secure profile



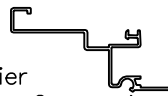
PRO1748
Rubber serres
Rubber greenhouses



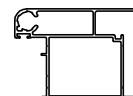
PRO6918
Eindlat dak
Endbar roof



GSO
Goetscharnier
Hinge gutter Orangerie



PRO6954
Deurkader zijkant
Doorframe side



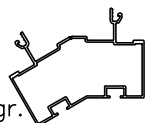
PRO29973
Prof. schermdoek
Screening profile



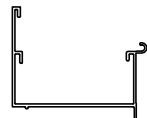
PRO2290
Zware rubber PPL
Heavy duty rubber



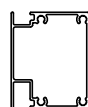
PRO7926
Hoek 150gr.
Corner prof. 150gr.



GTO
Goot Orangerie
Gutter Orangerie



PRO6953
Hor.draaideur
Hor.turning door

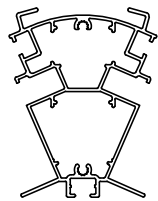


TRE
Trekker-windverband
Side bracings

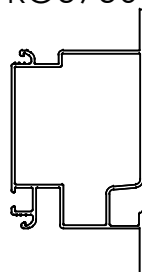


PRO5538
Halve rubber Helios
Half-rubber Helios

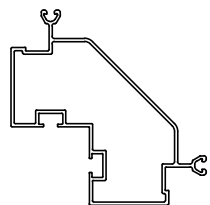




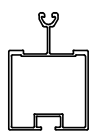
PRO6760



PRO1454

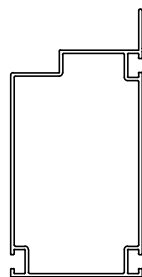


PRO6578

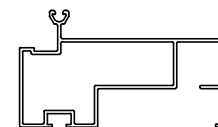
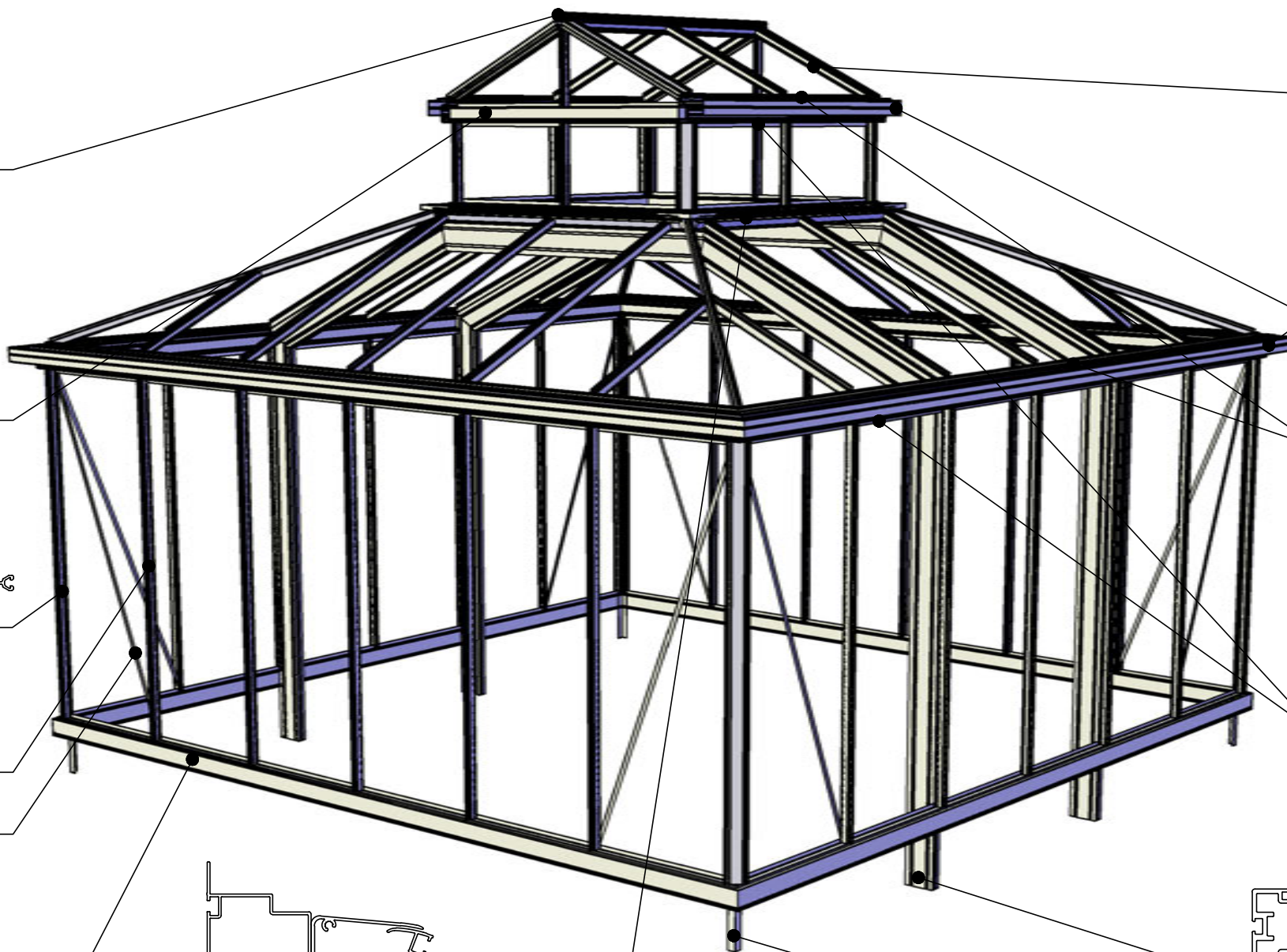


PRO1456

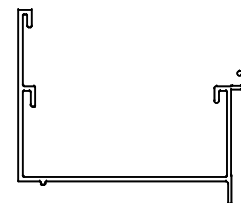
PRO20362



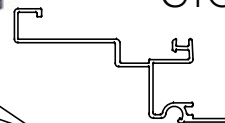
PRO6120



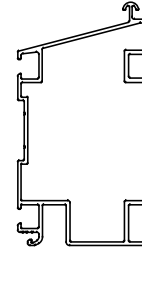
PRO6918



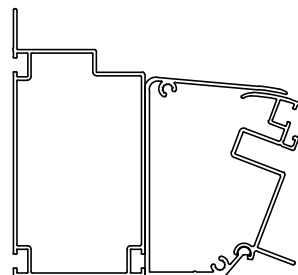
GTO



GSO

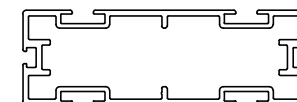


GDO

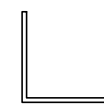


PRO6120

PRO33326
PRO33329



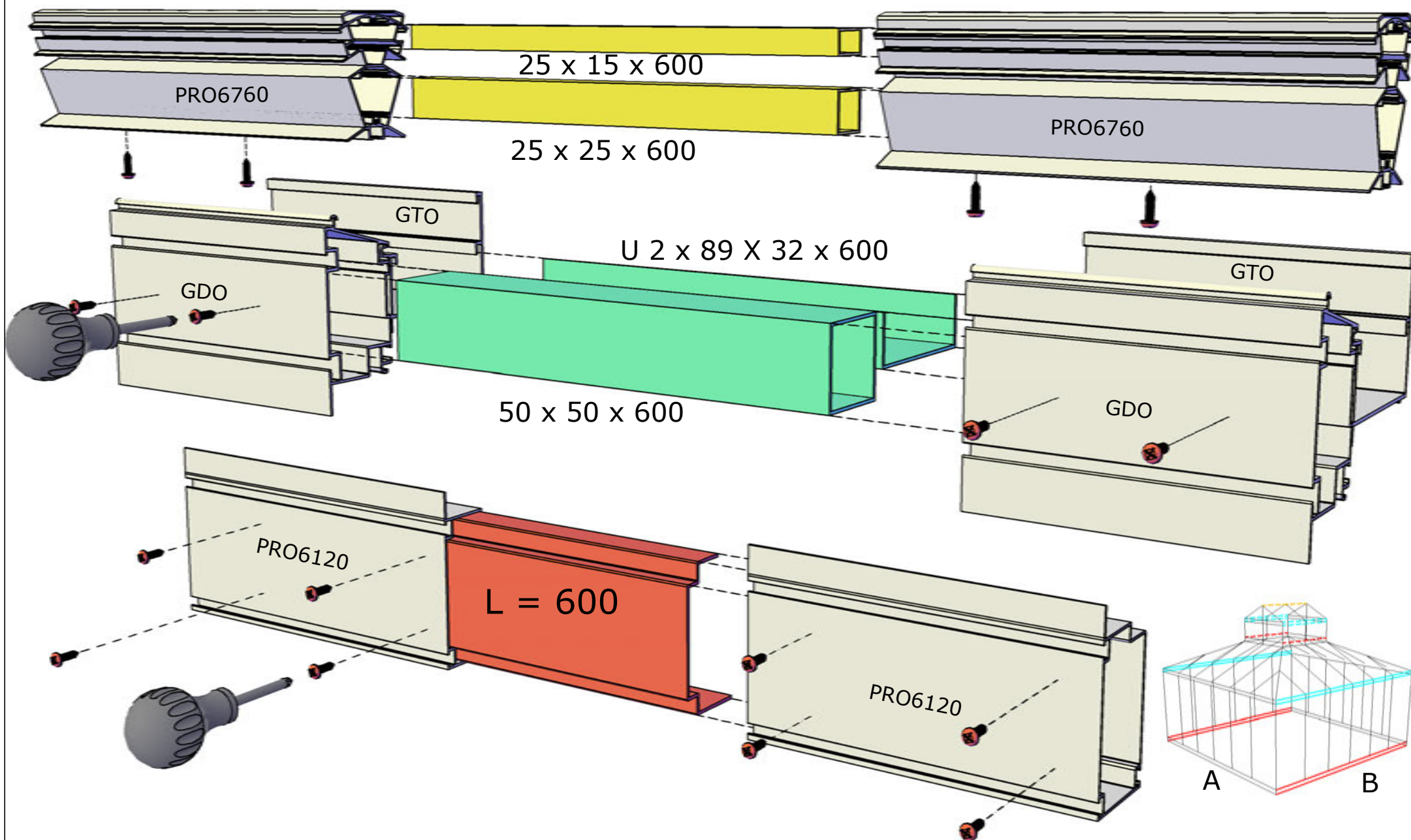
PRO20661



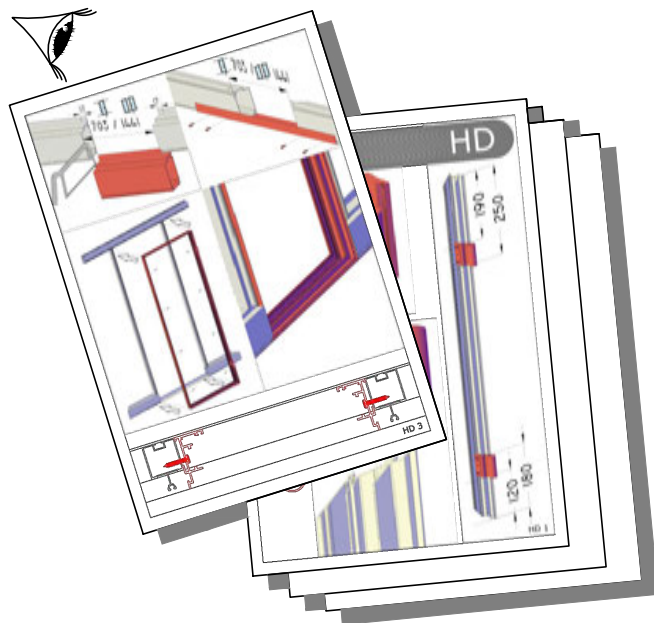
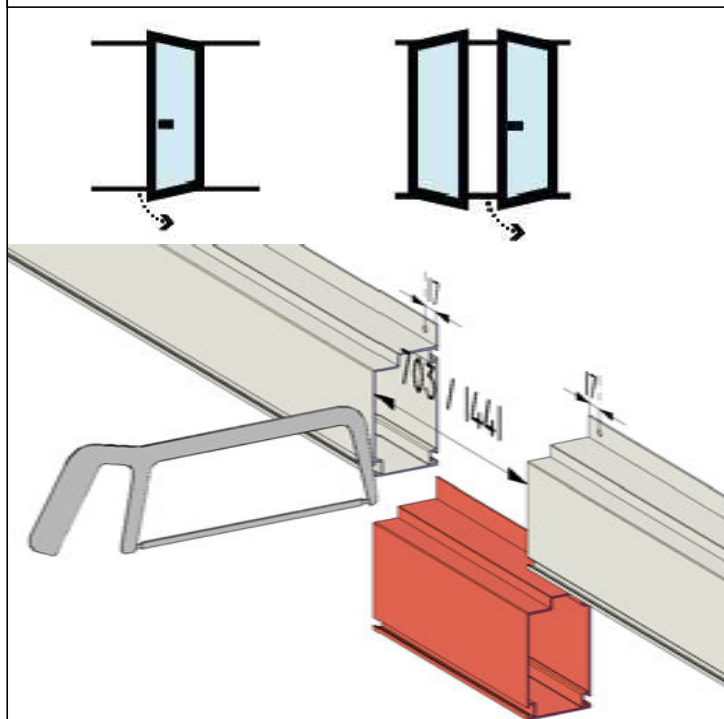
PRO210



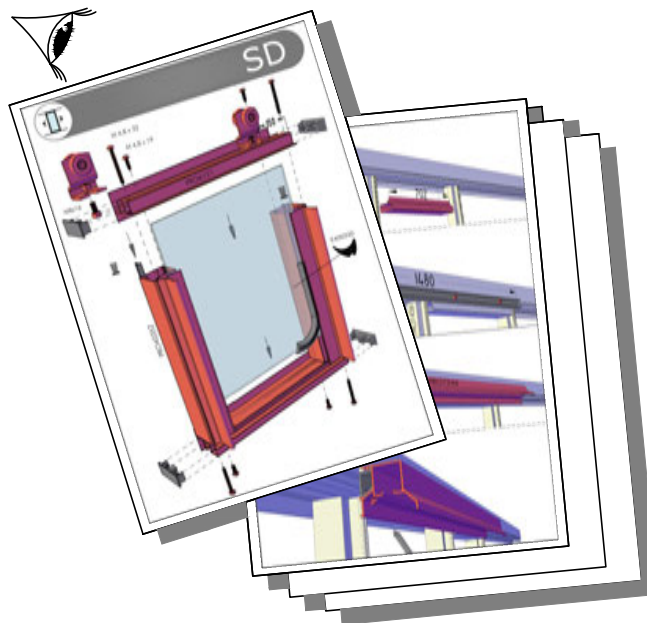
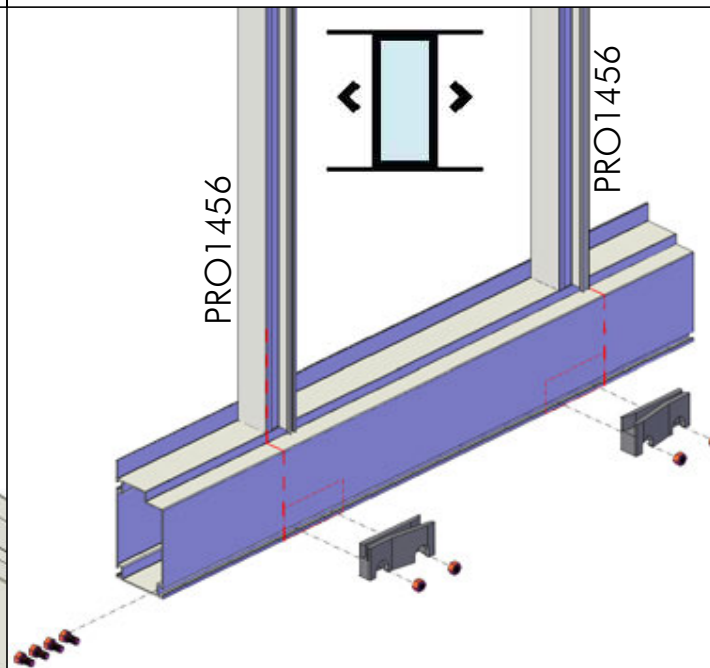
B = LENGTH > 6m10



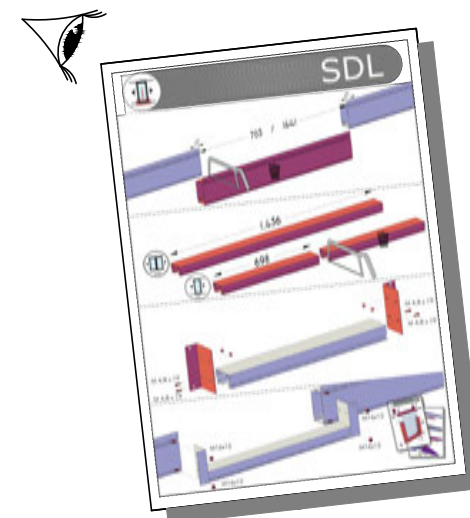
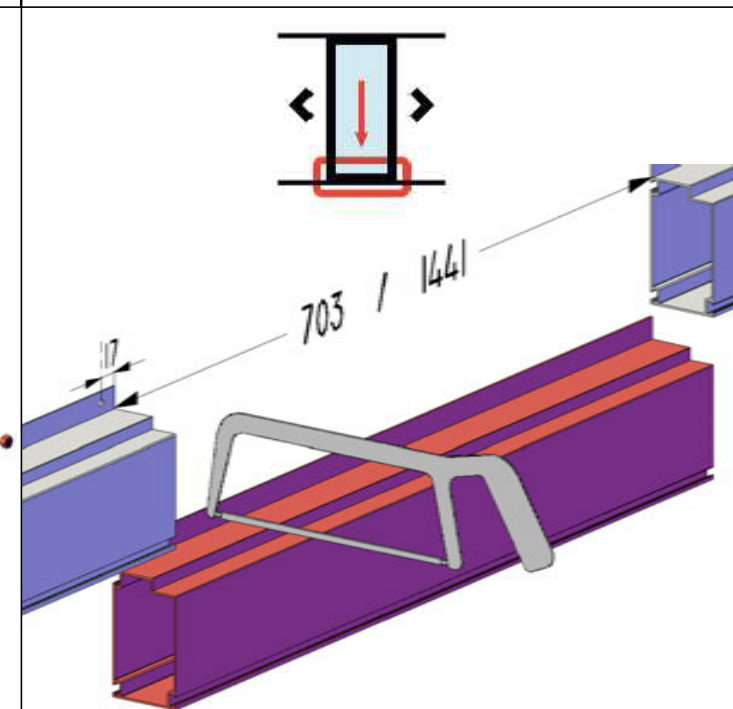
OPTION: **HD** (hinged door)

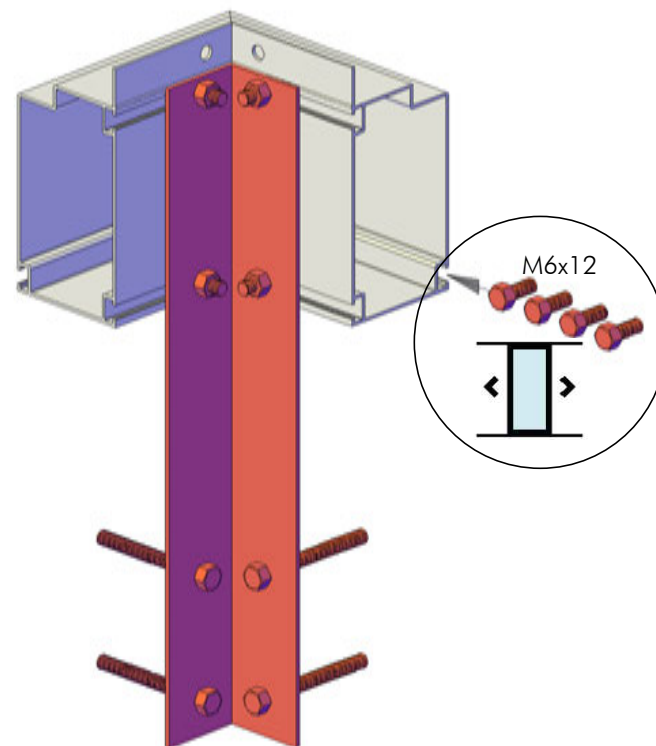
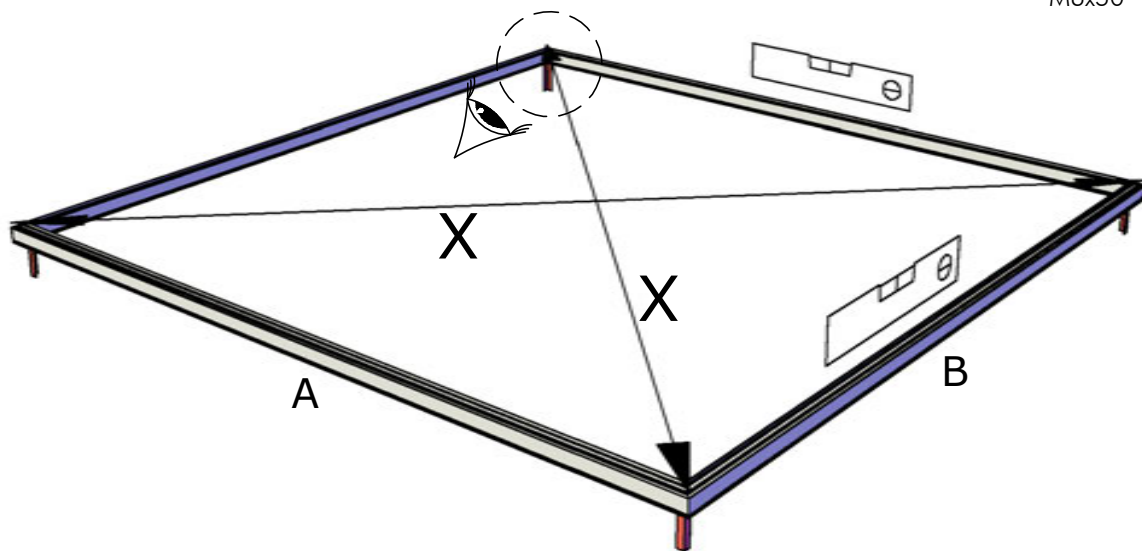
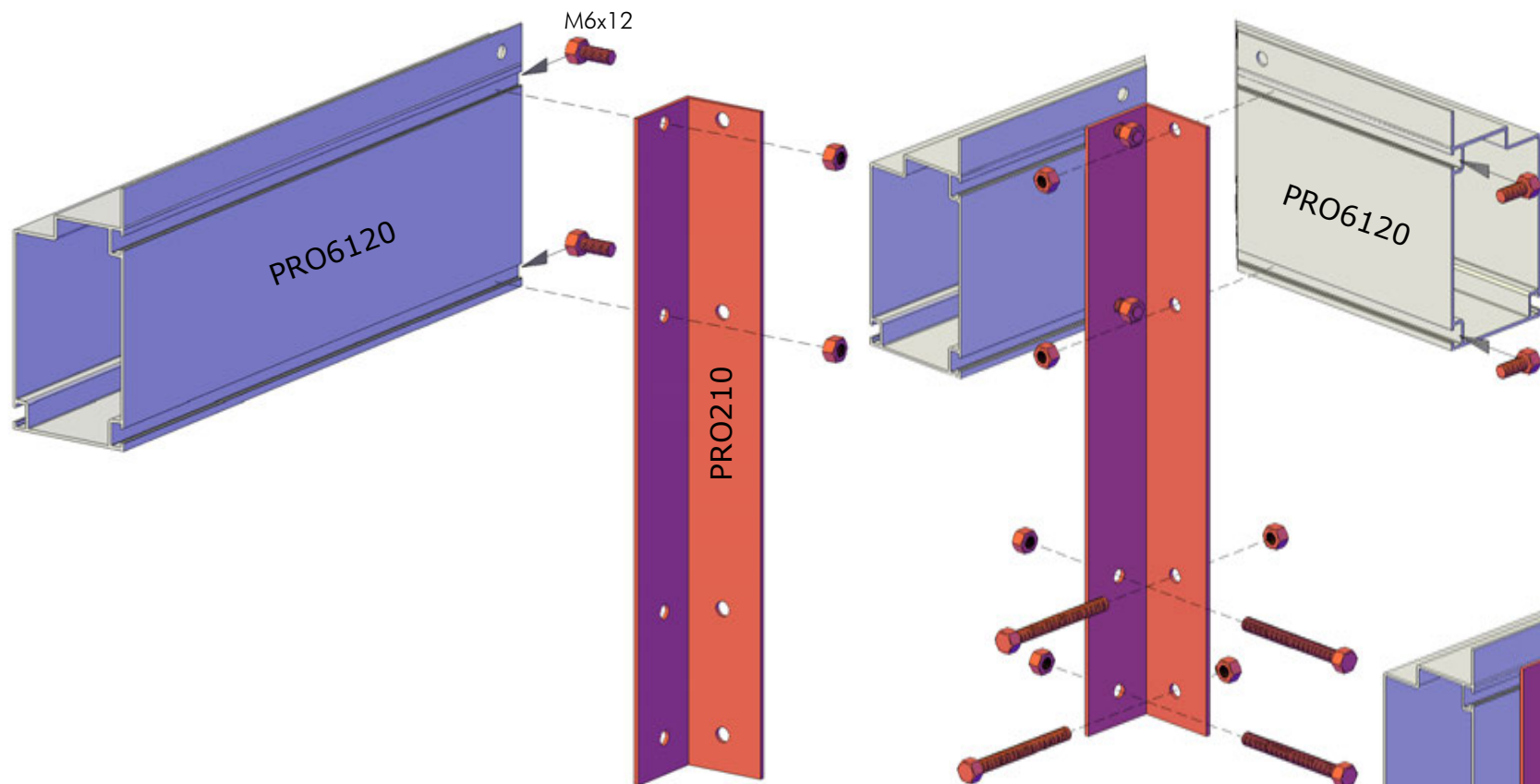


OPTION: **SD** (sliding door)

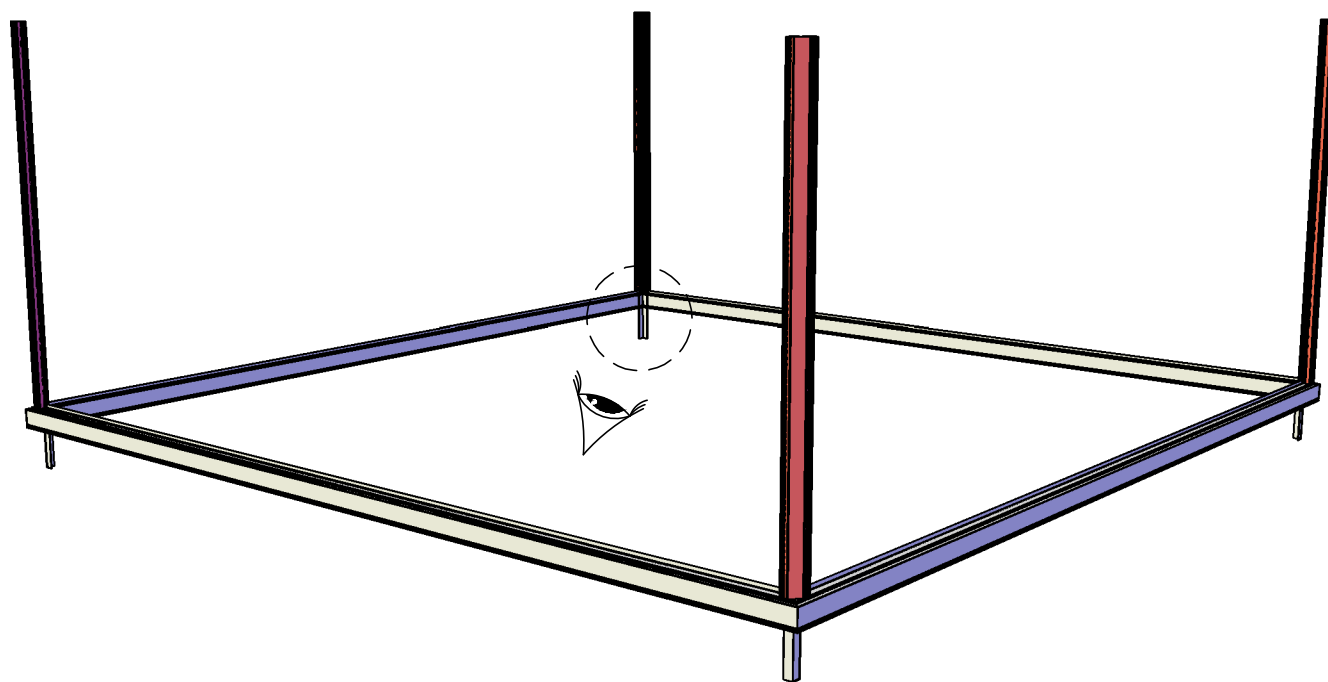
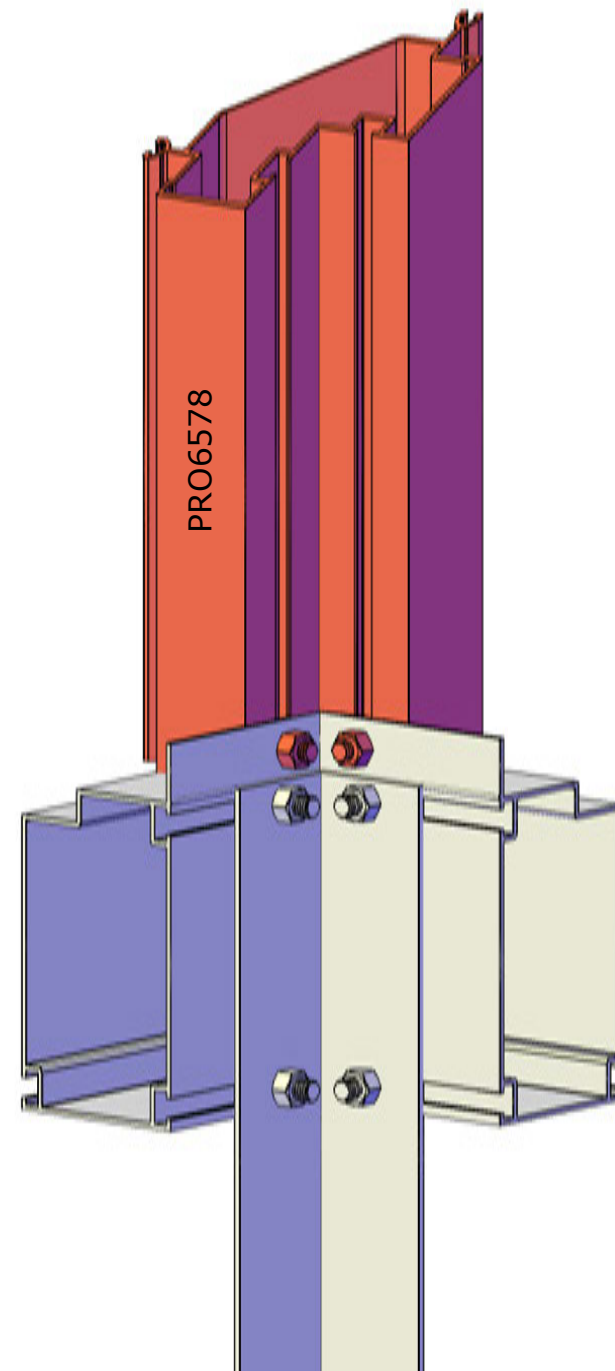
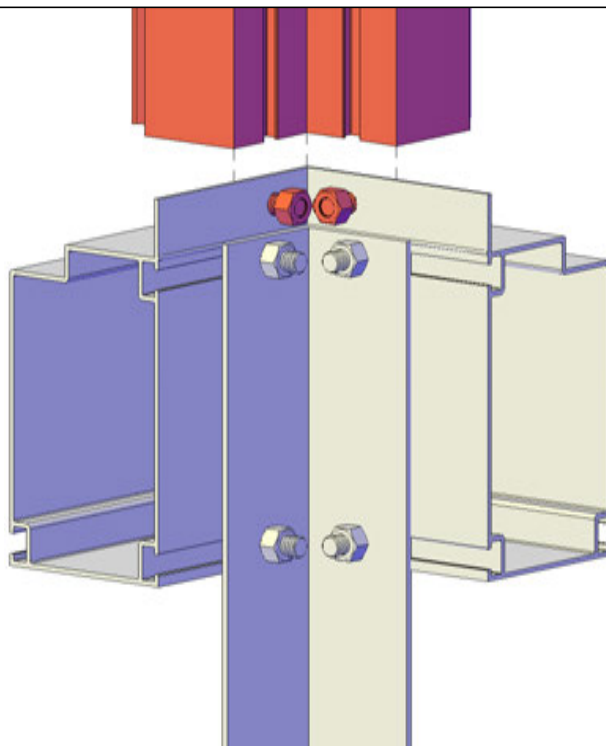
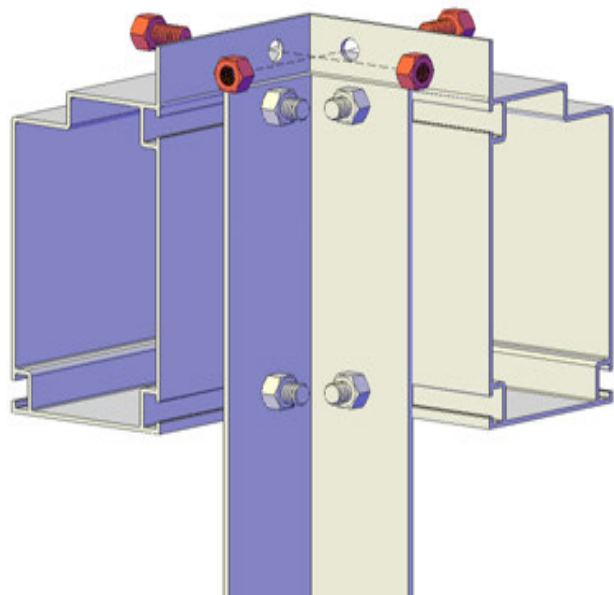


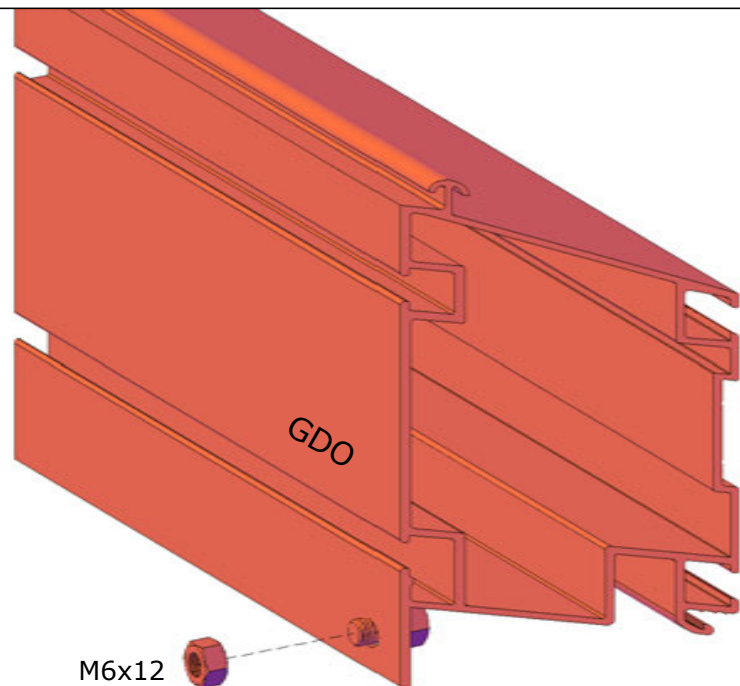
OPTION: **SDL** (low threshold)



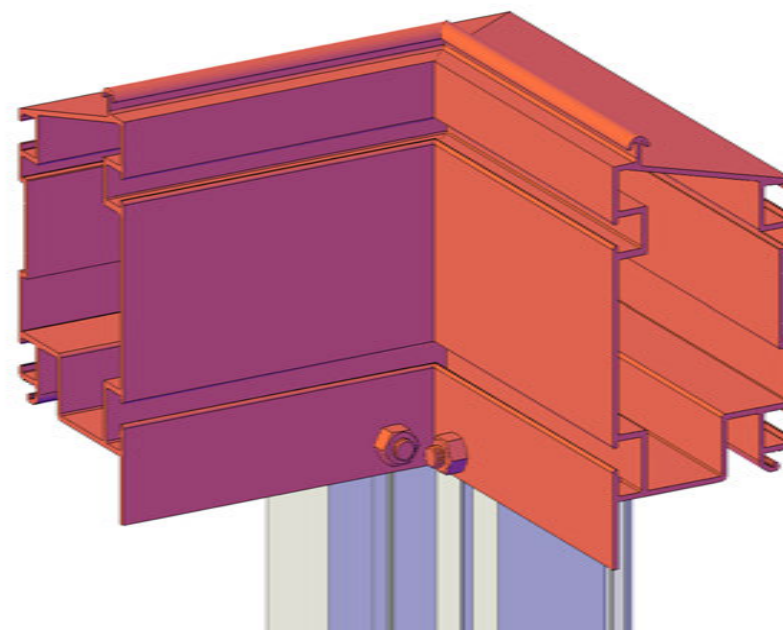
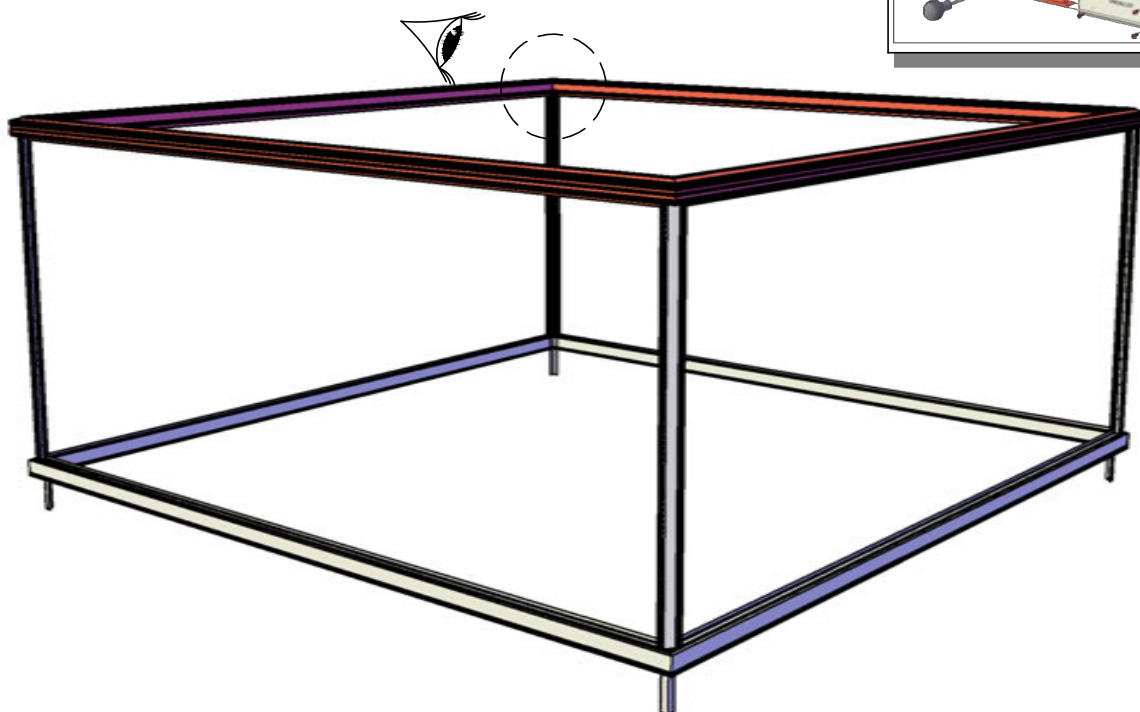
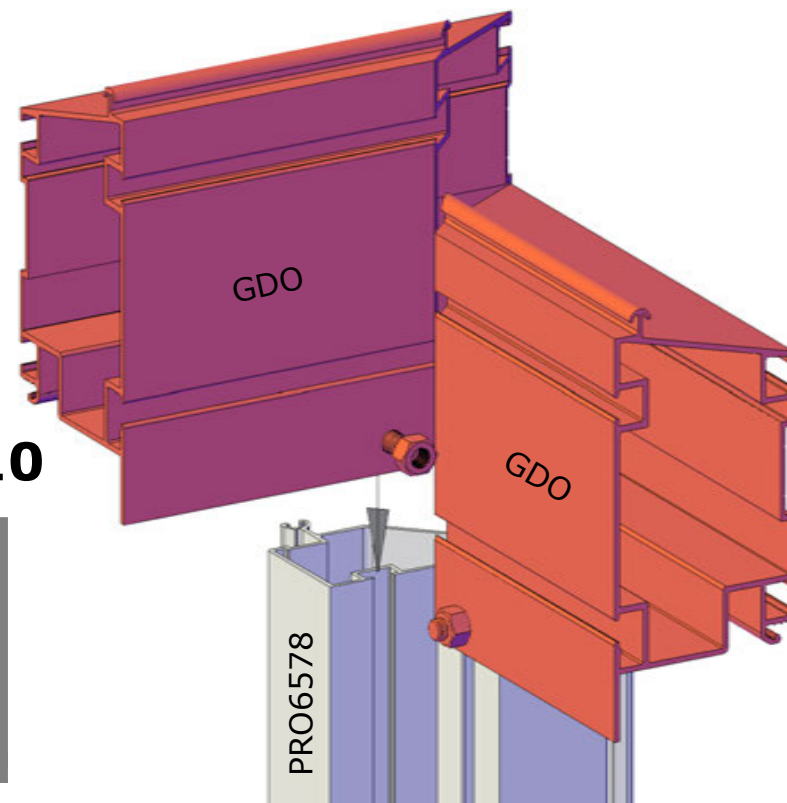
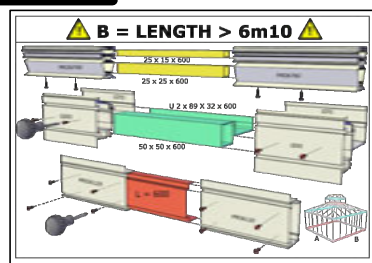


M6x12

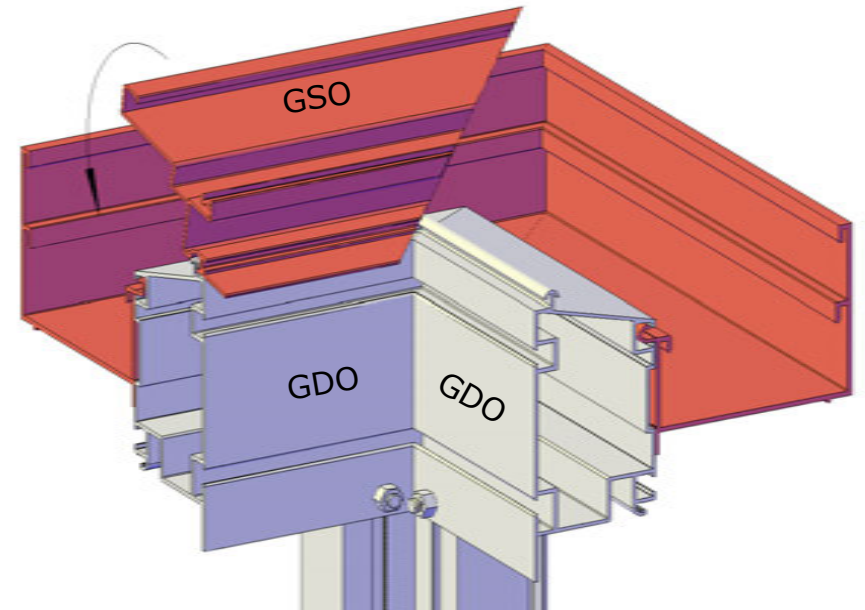
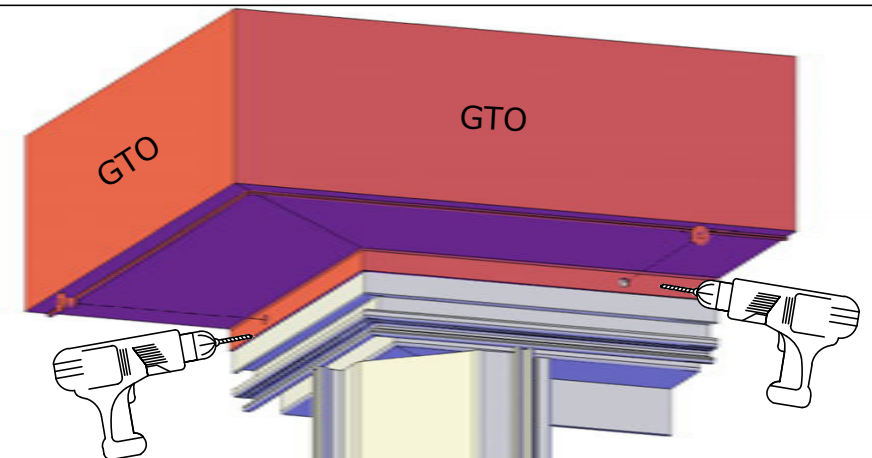
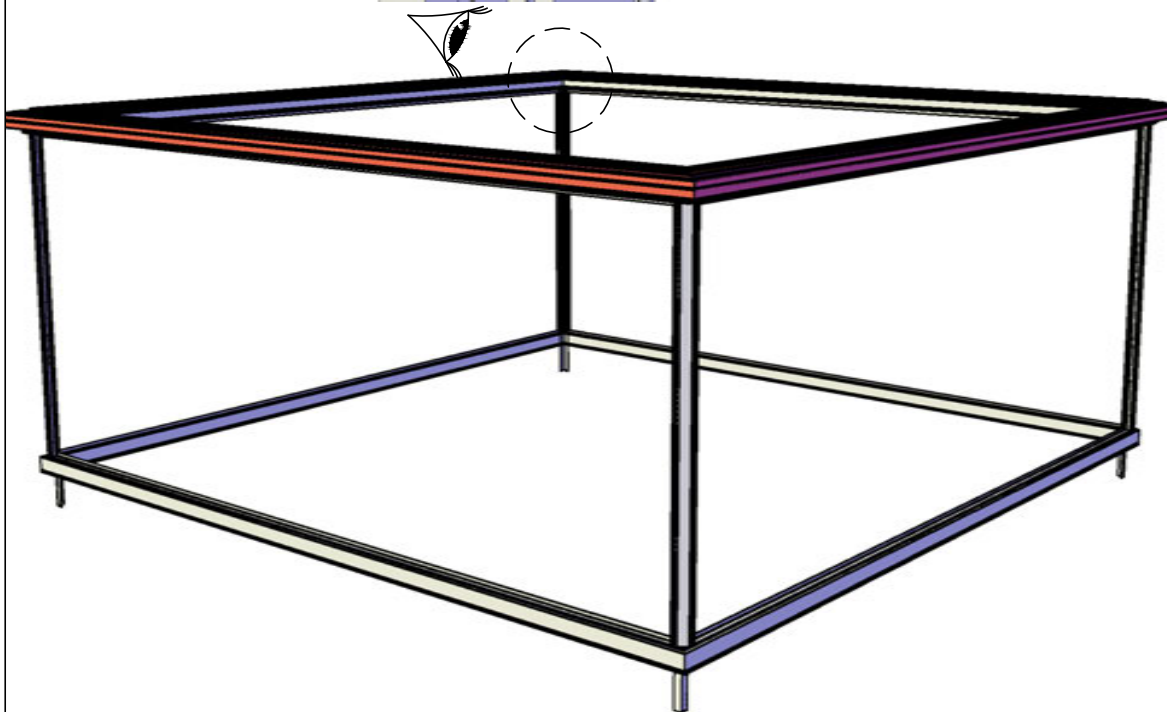
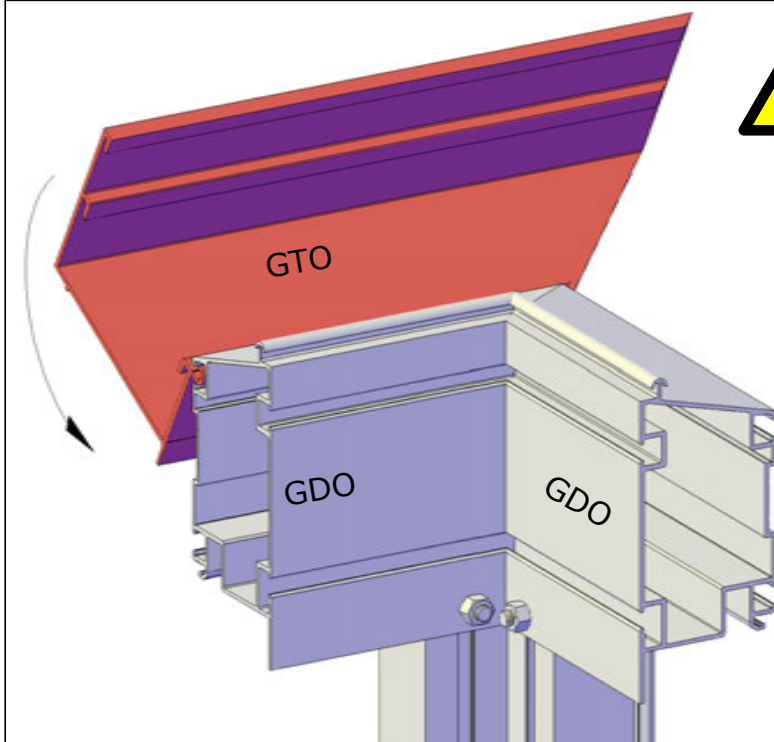
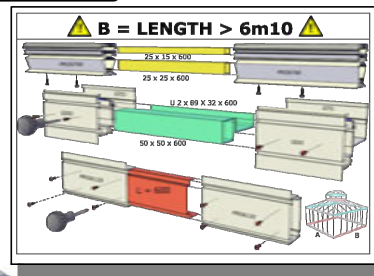




B > 6m10



! B > 6m10



SILICONE

SILICONE

GSO

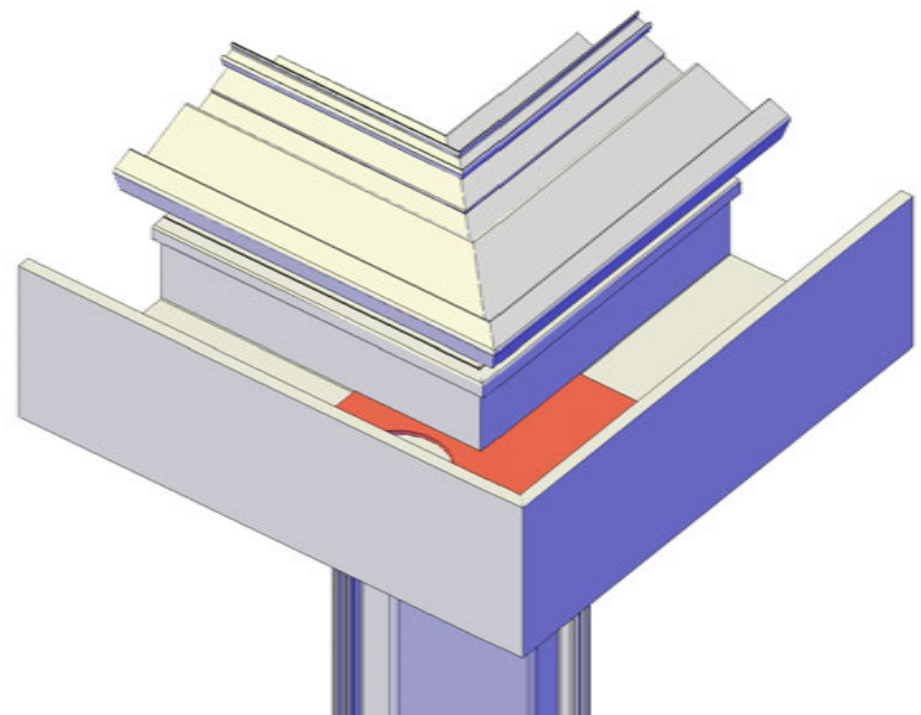
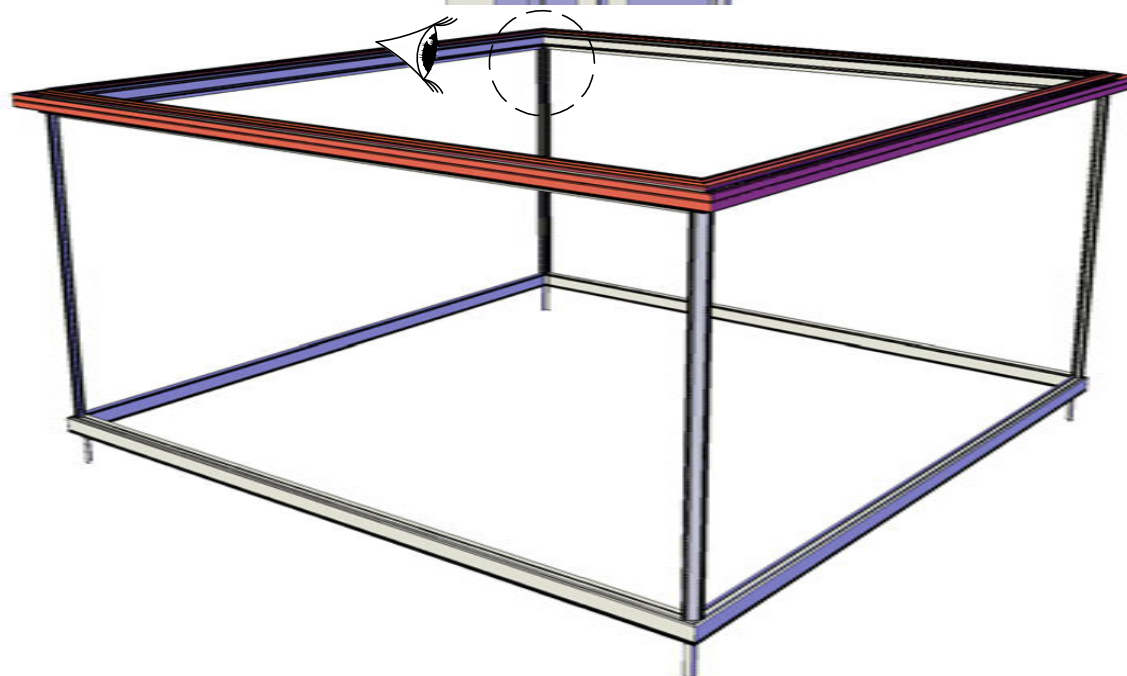
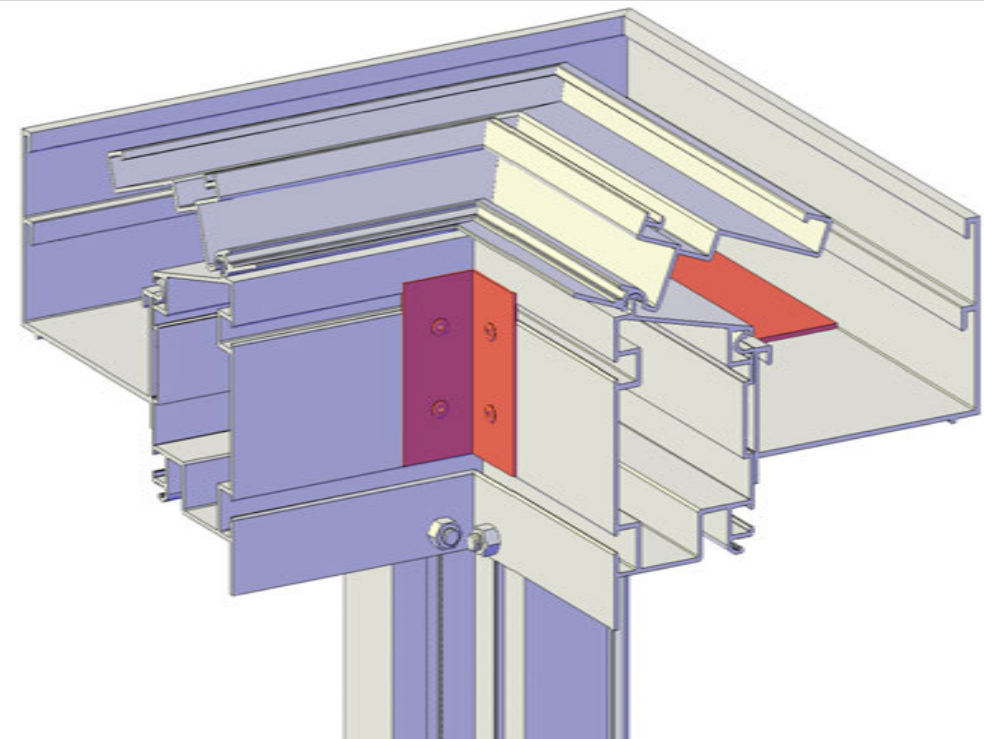
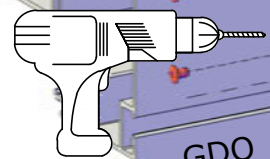
GSO

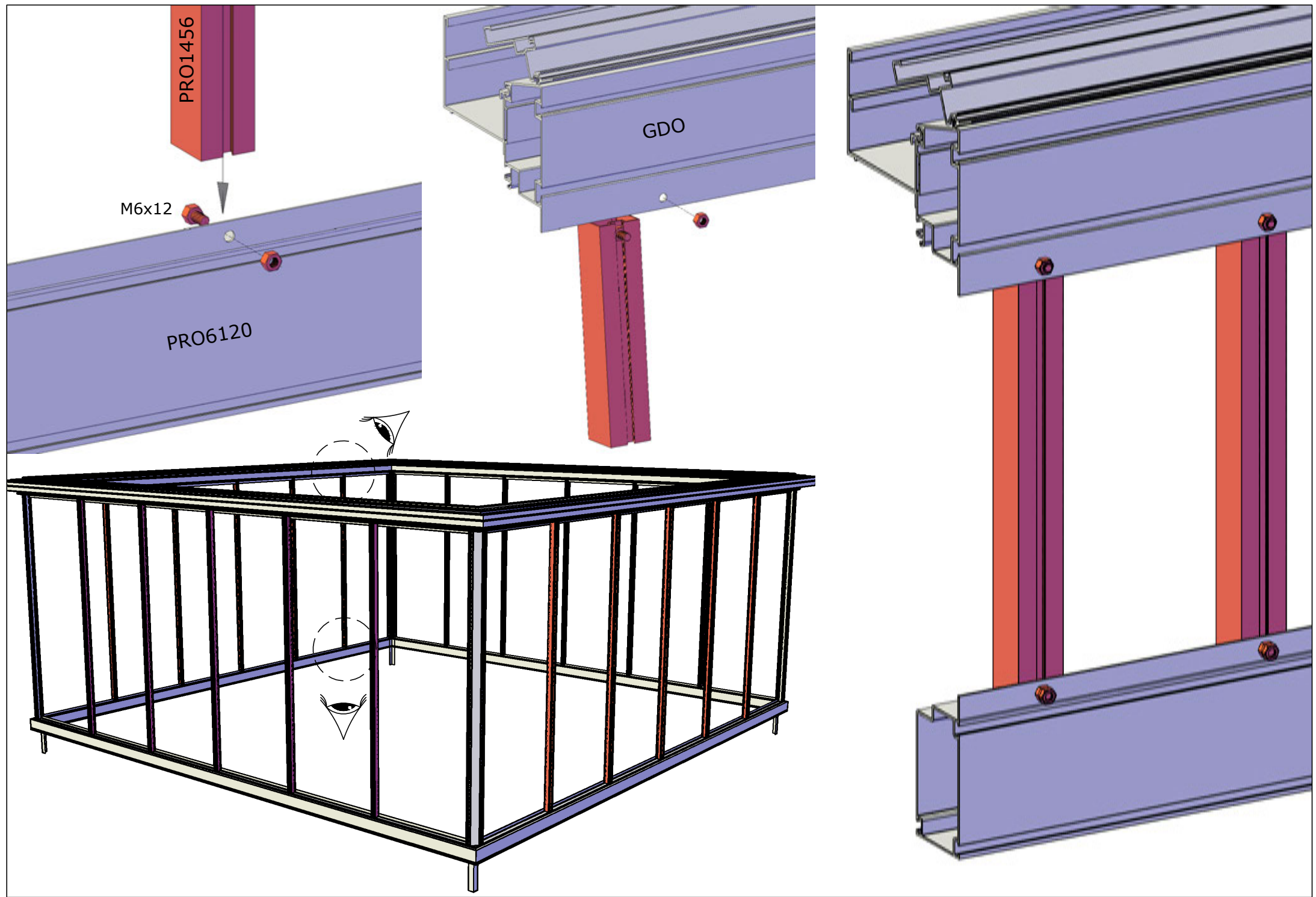
GTO

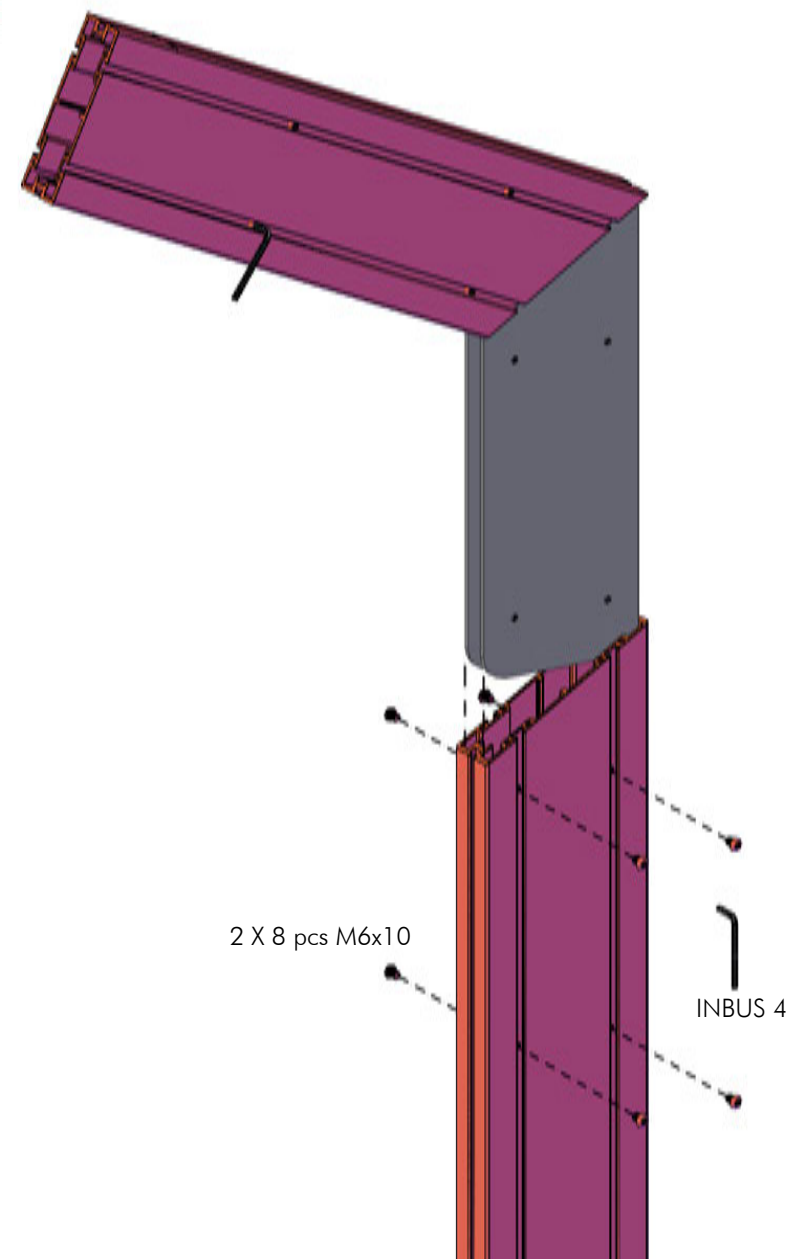
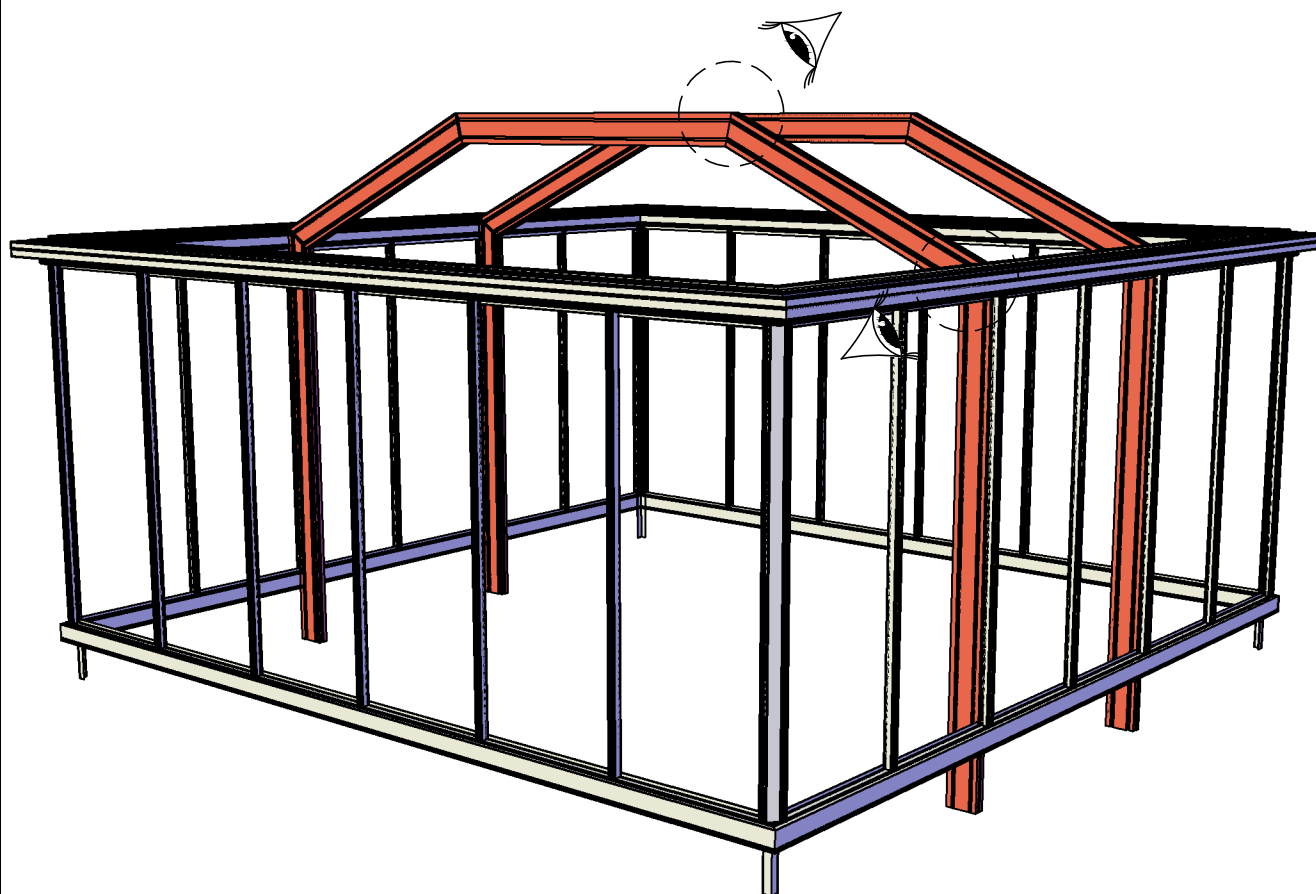
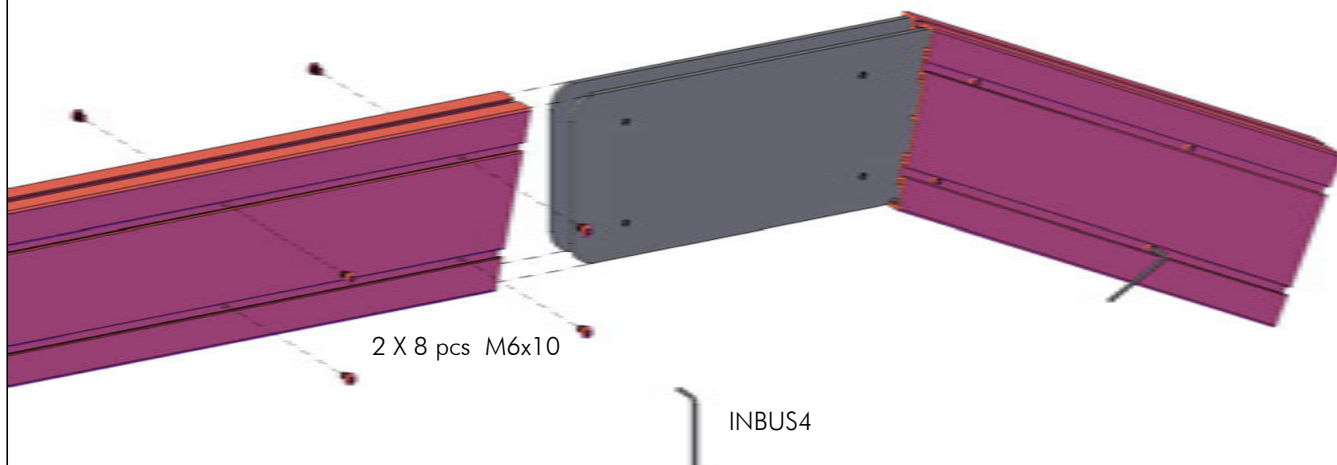
GTO

GDO

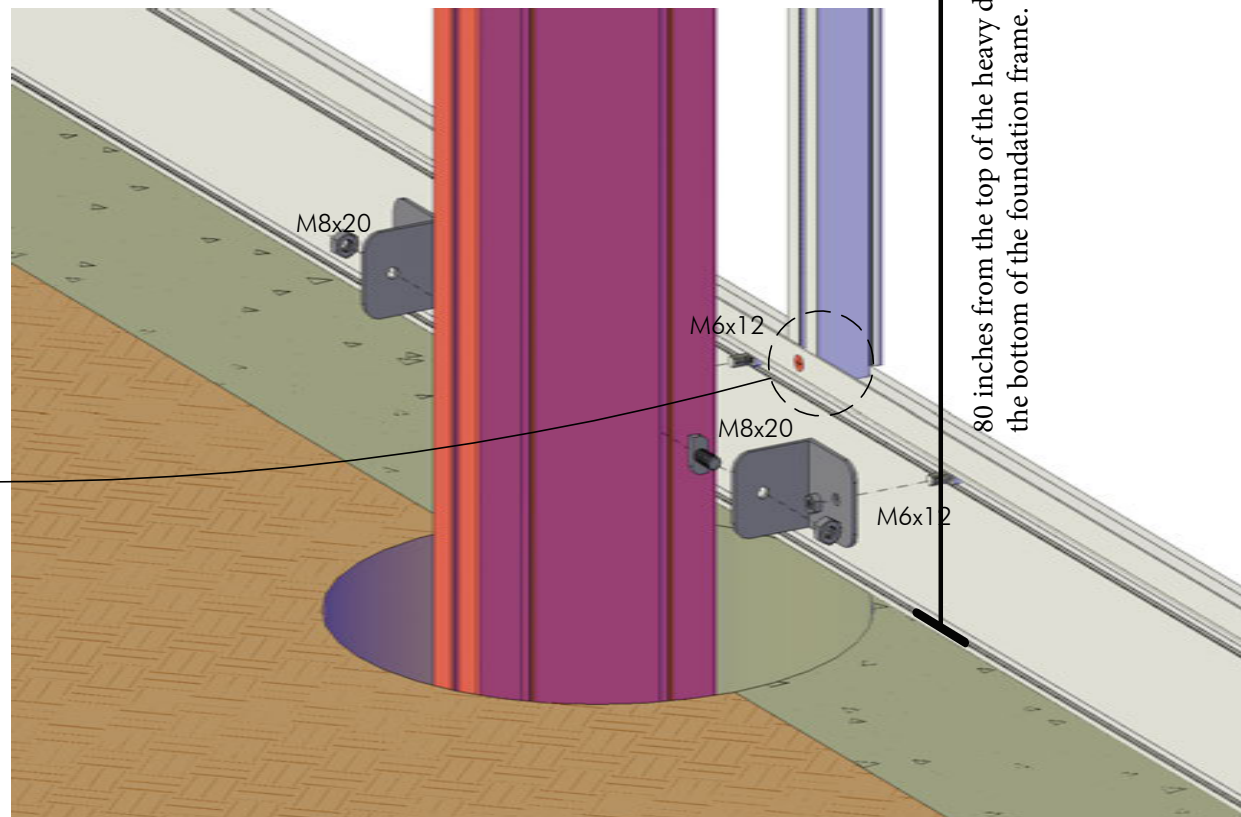
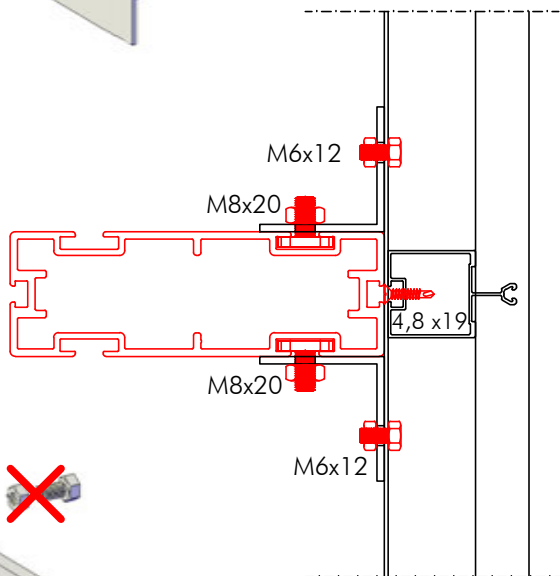
GDO



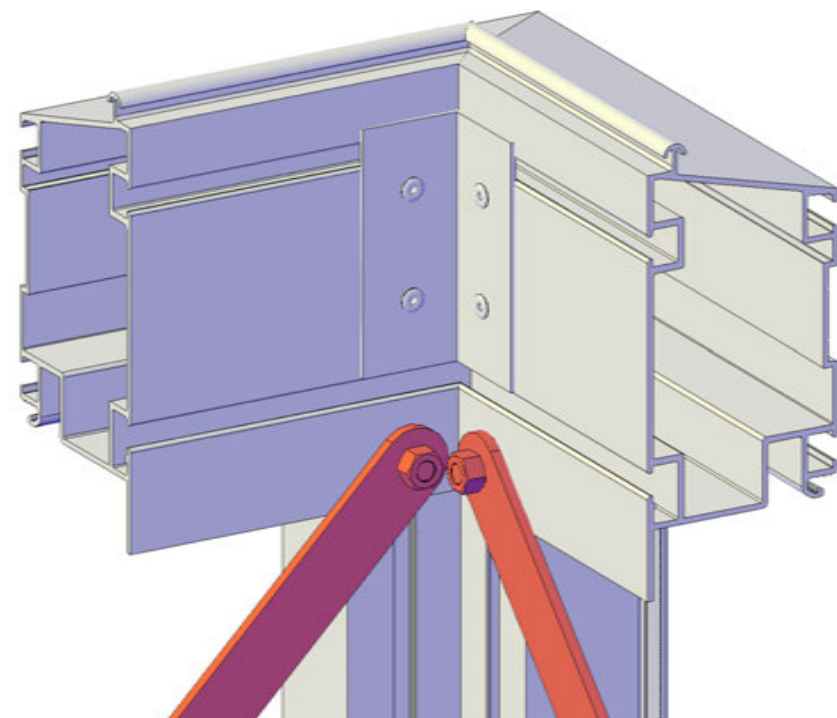
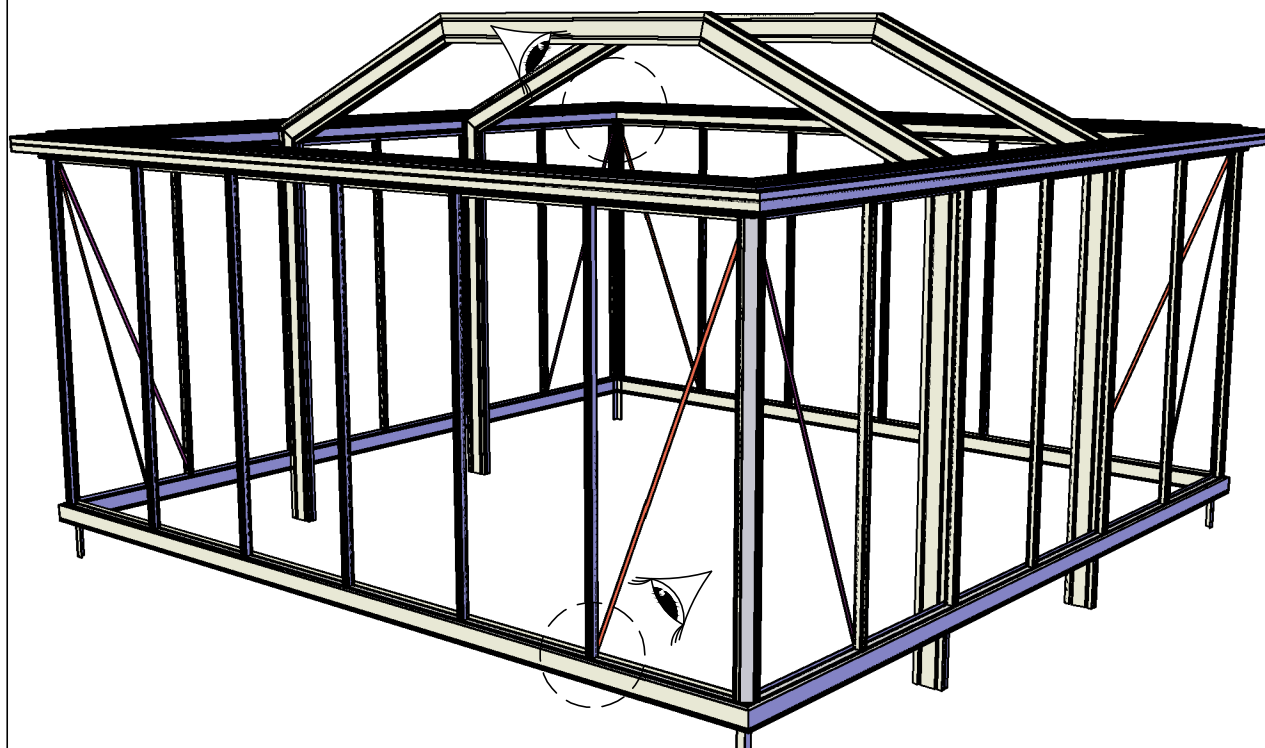
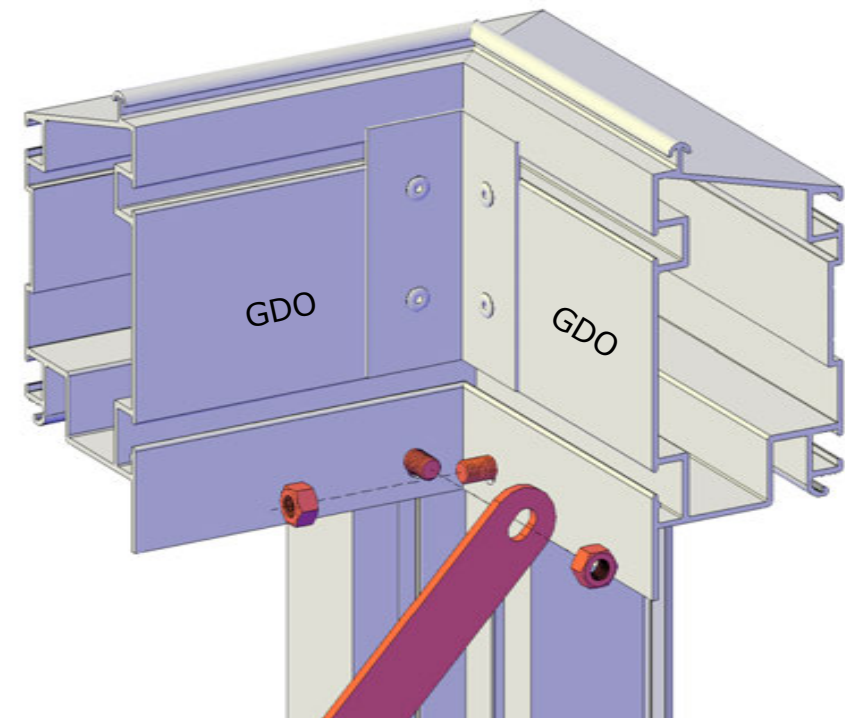
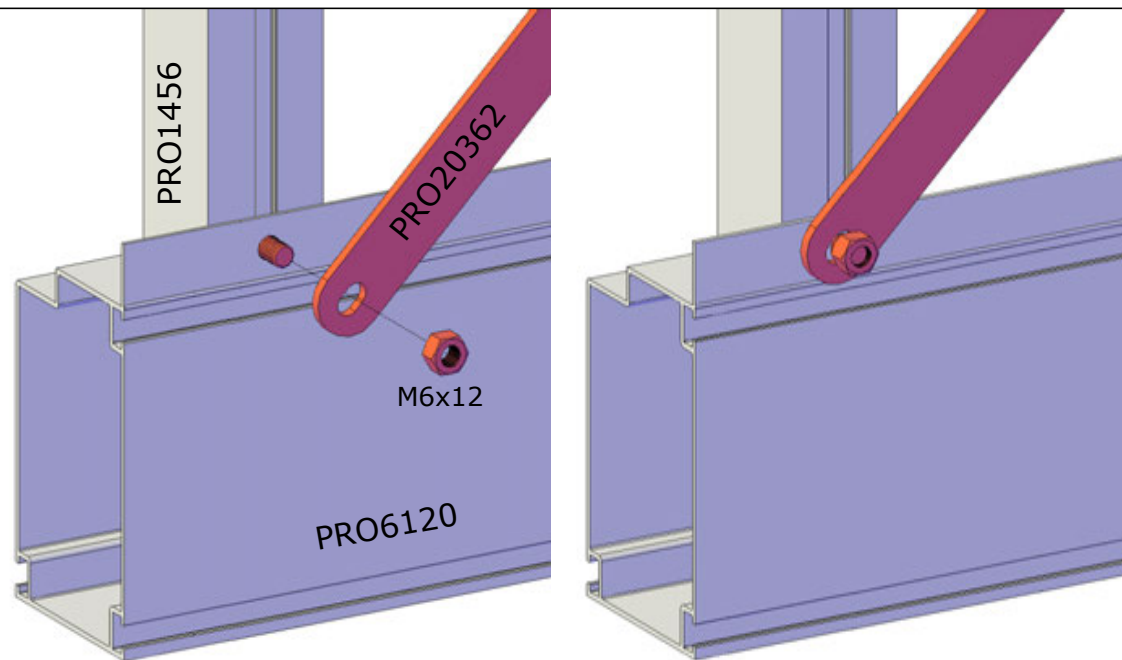


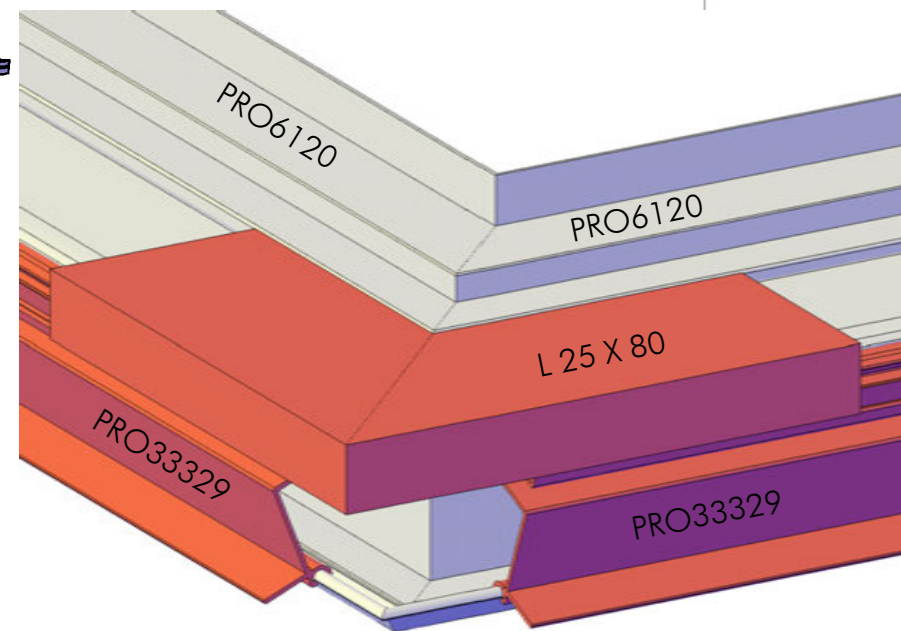
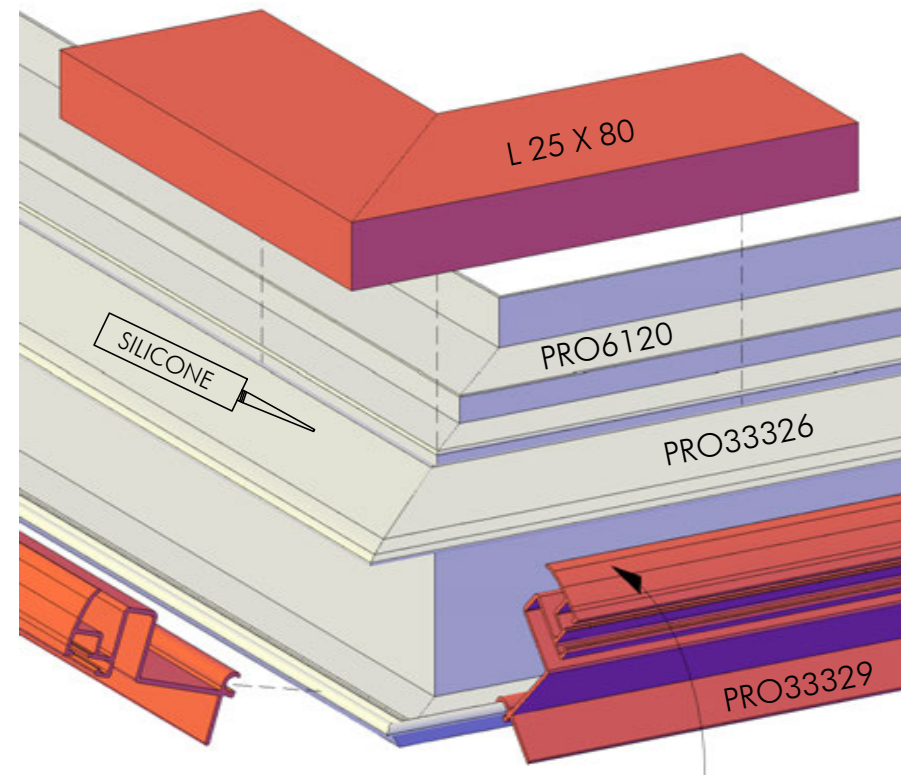
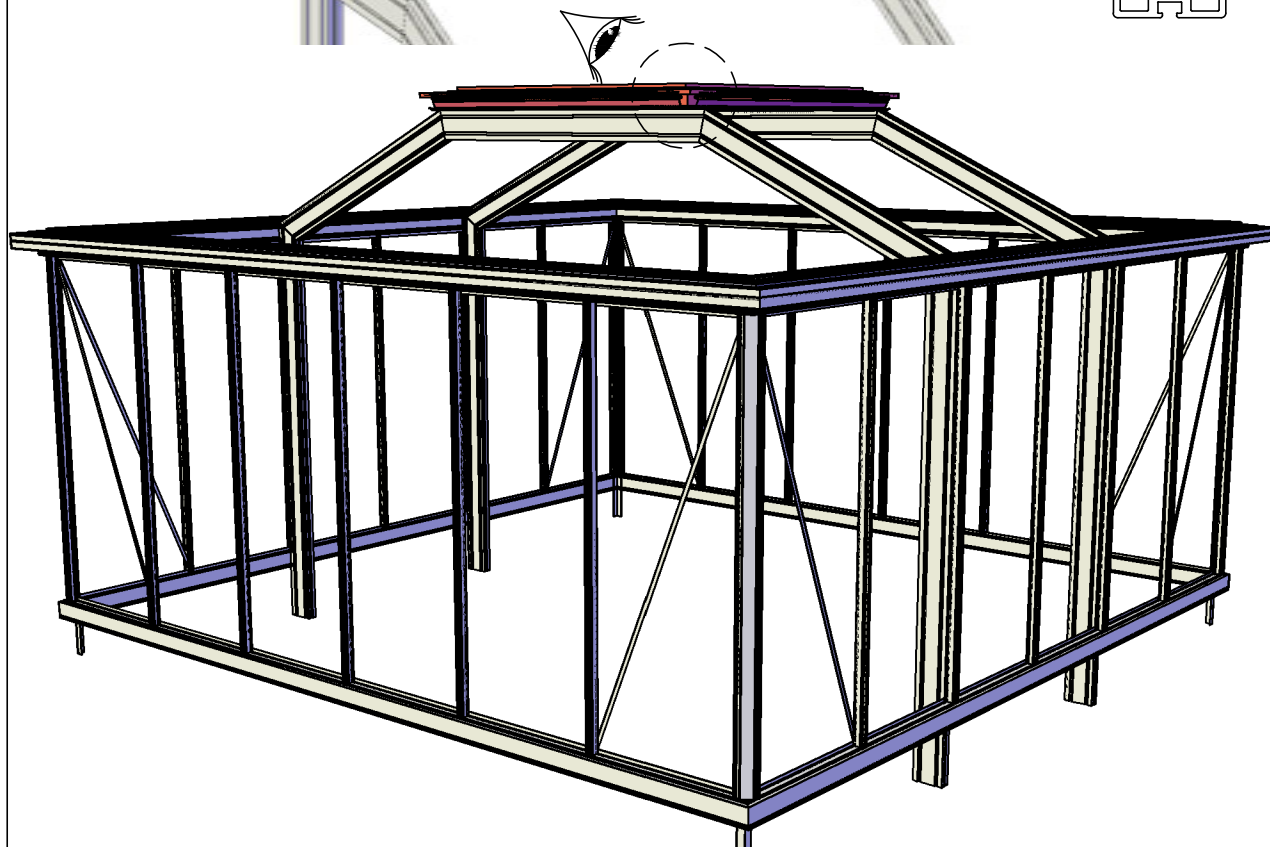
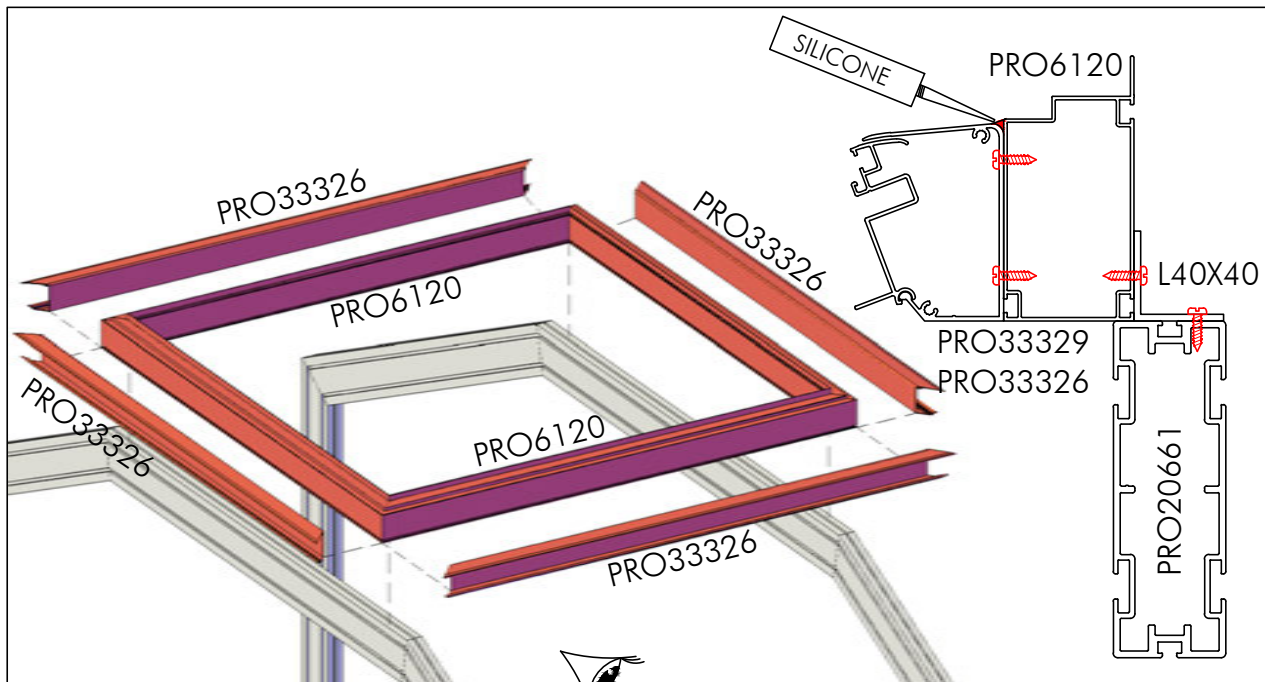


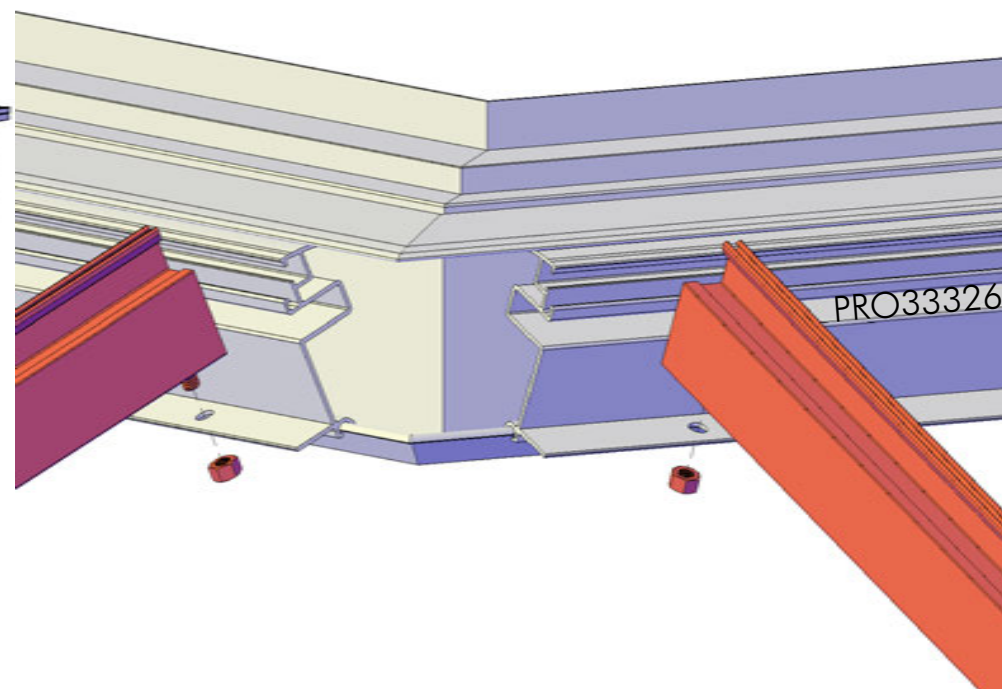
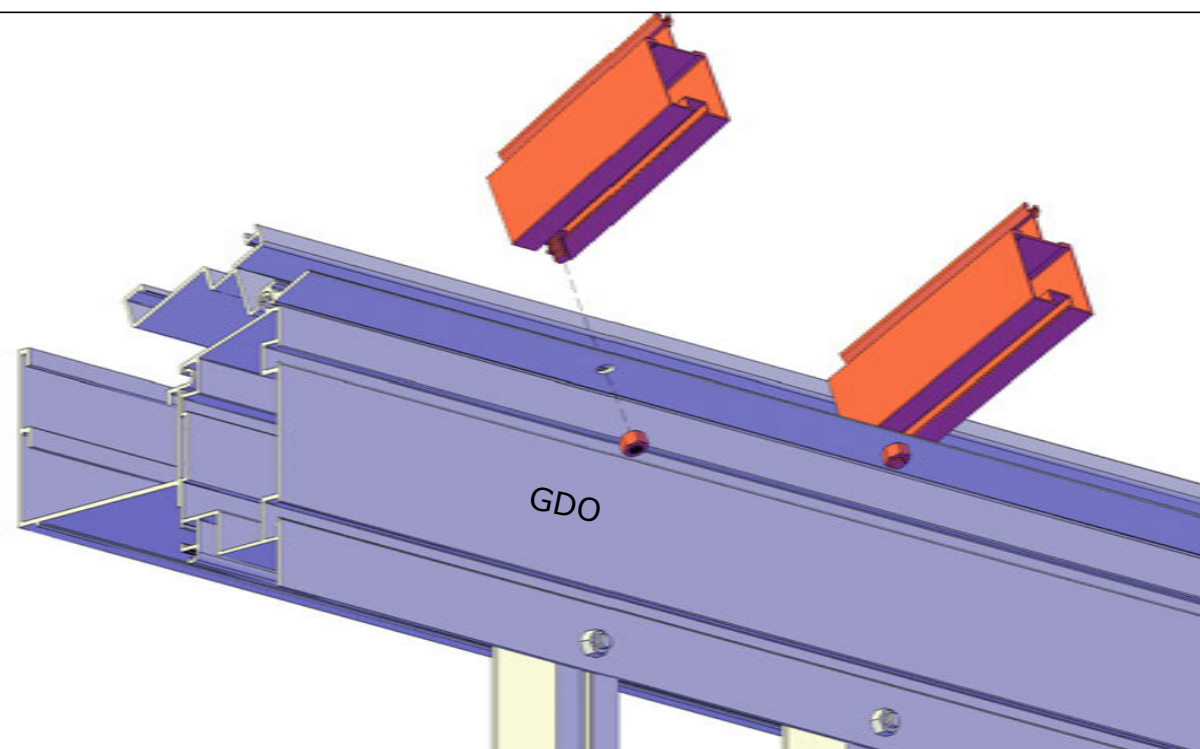
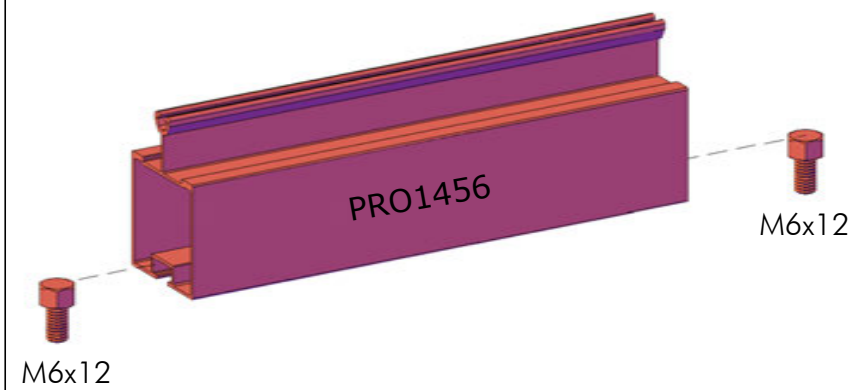
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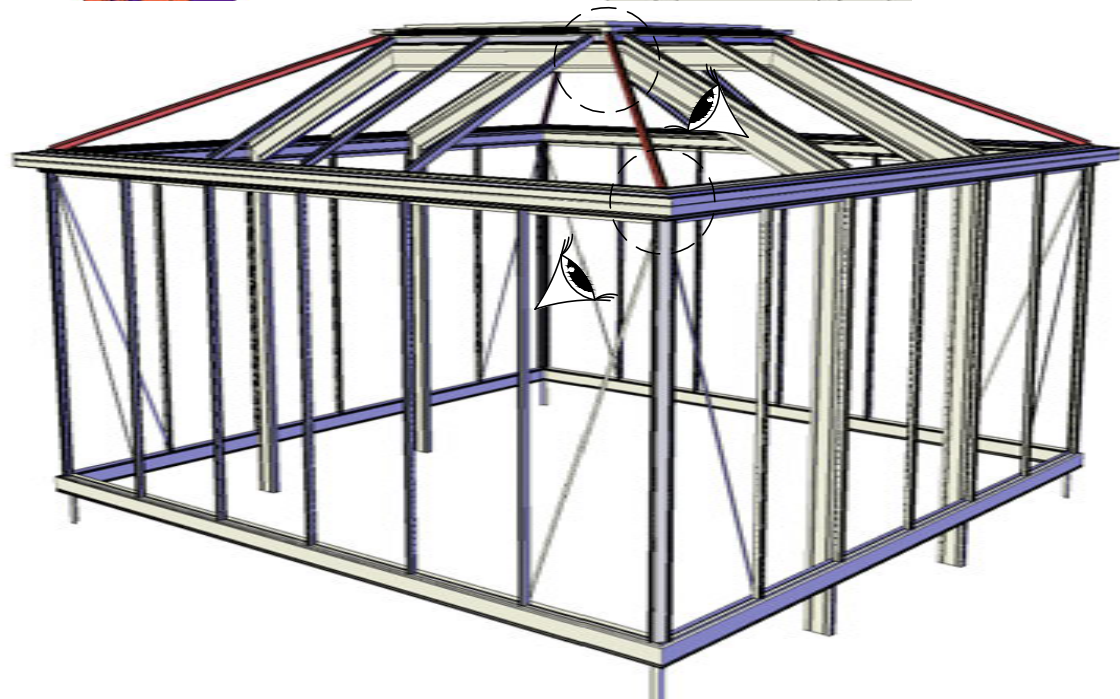
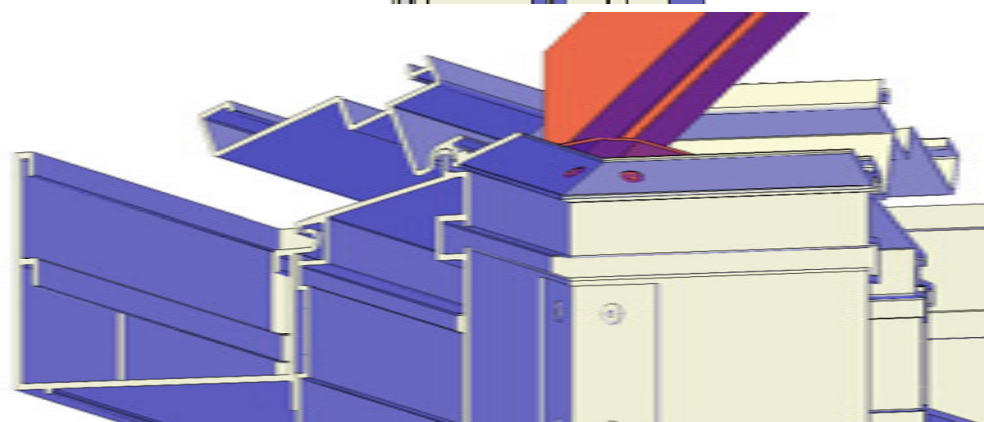
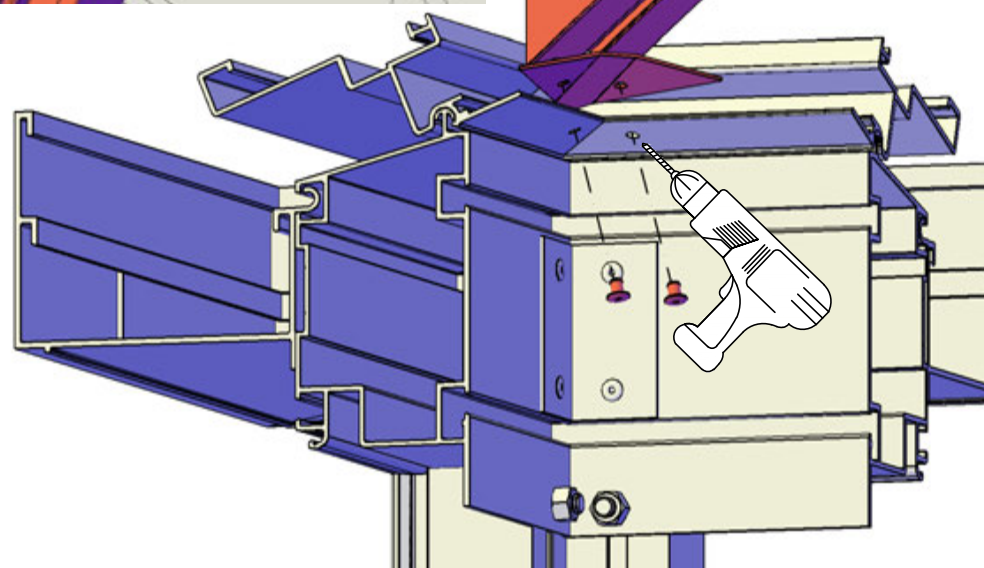
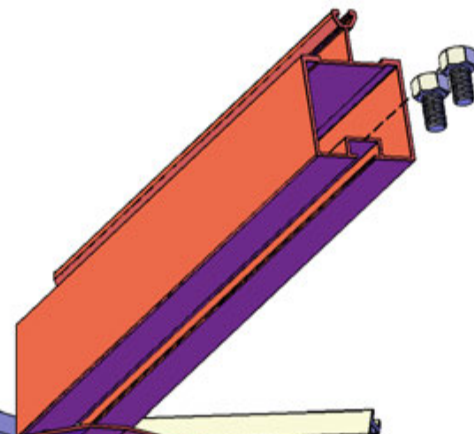
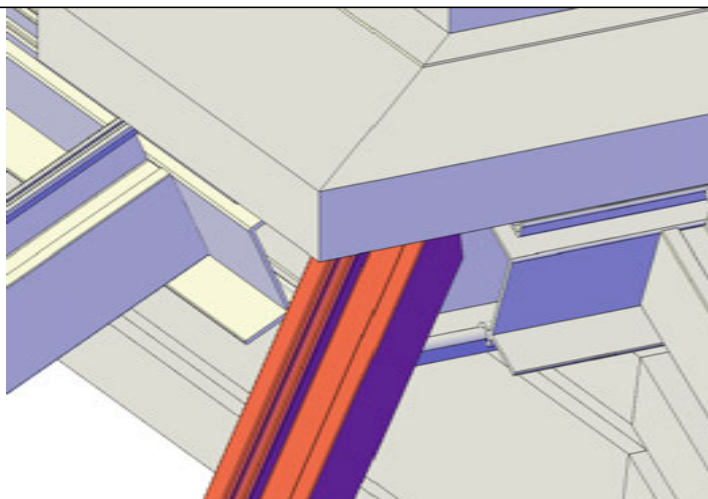
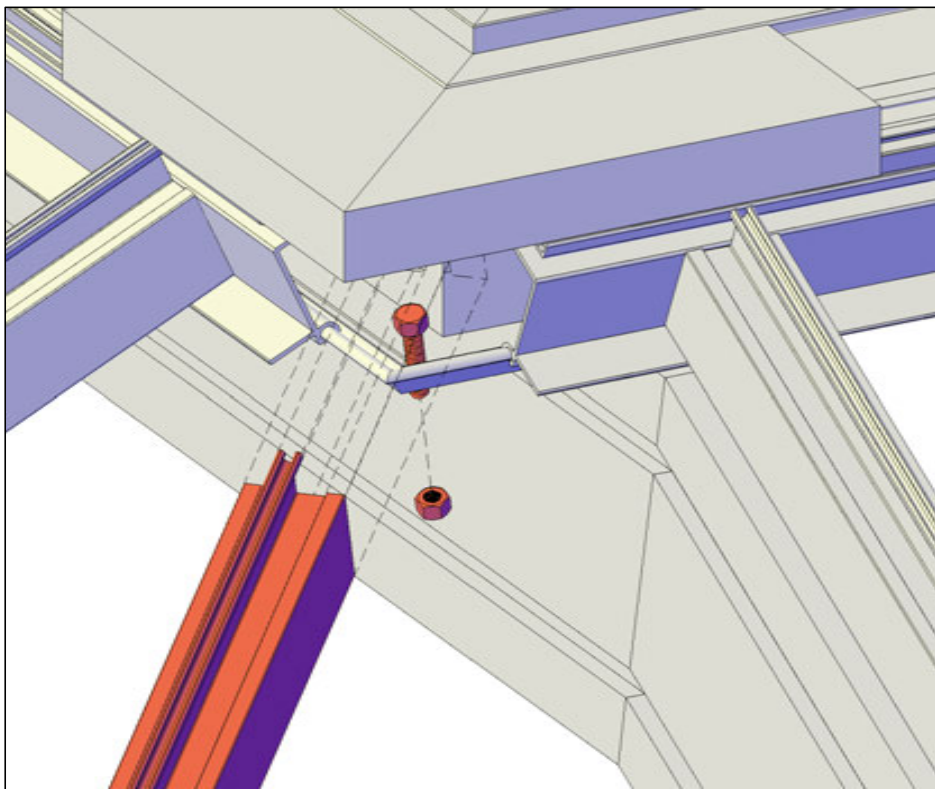


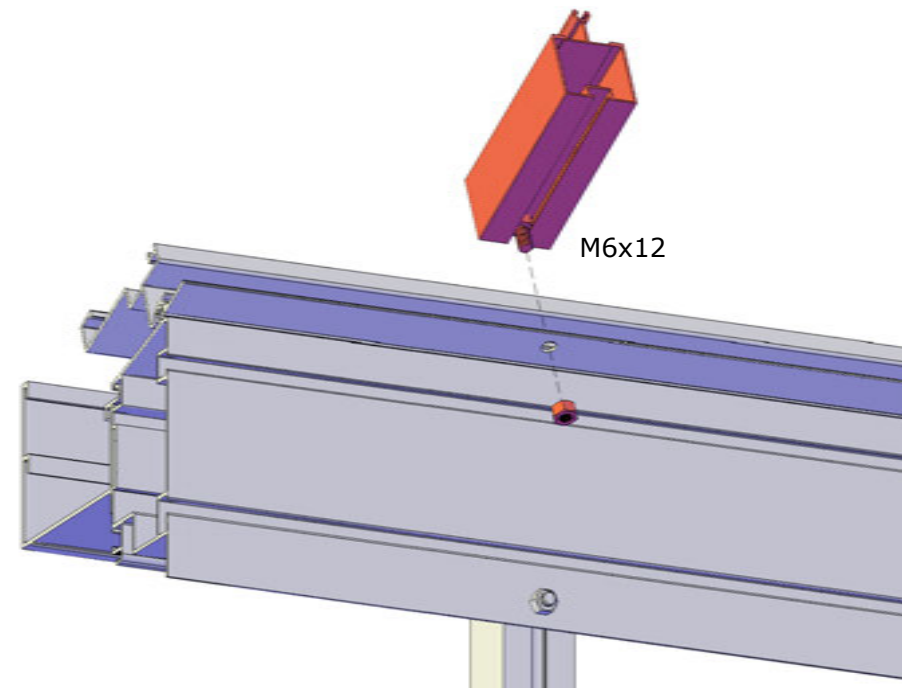
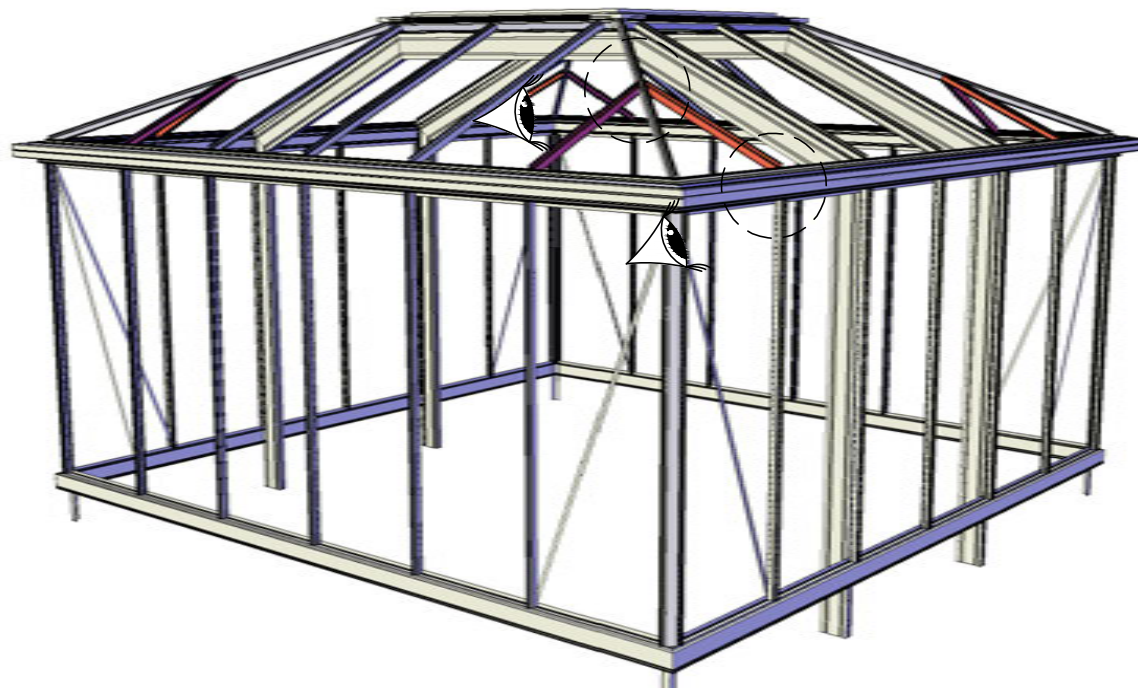
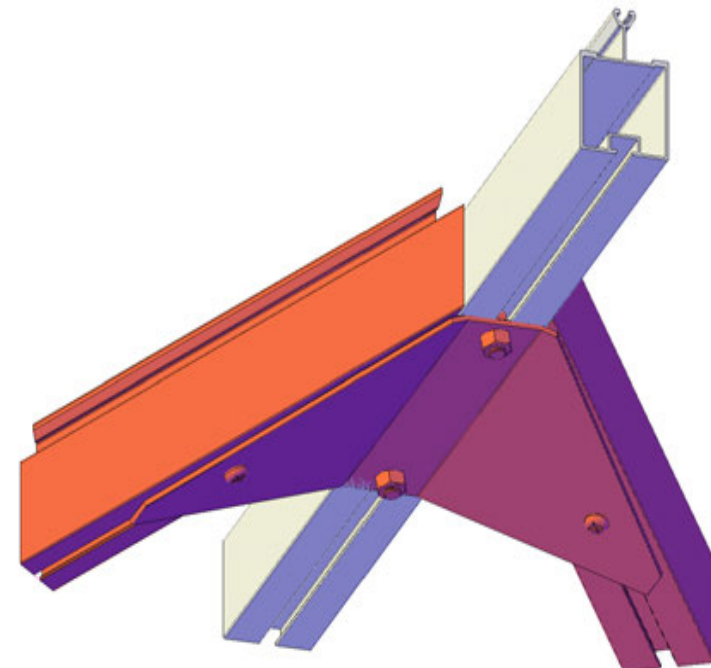
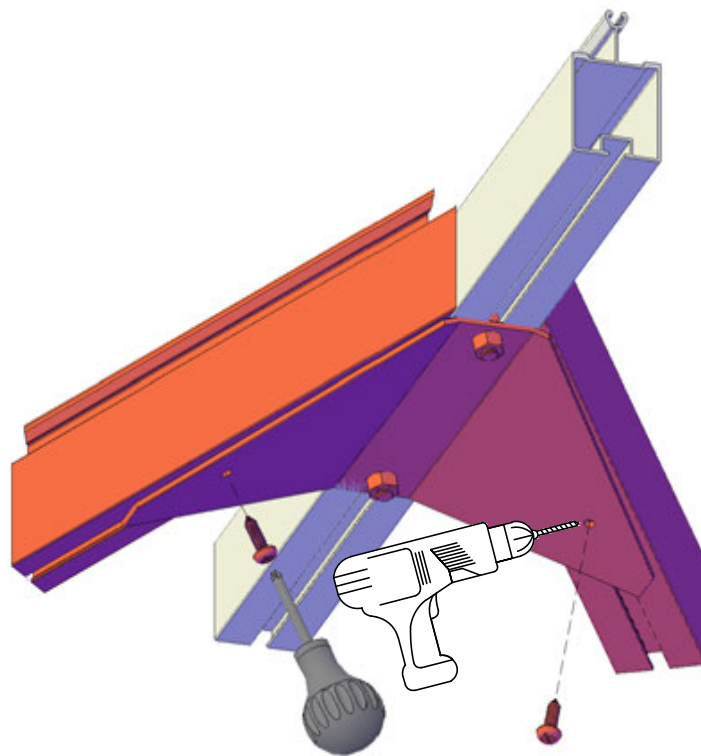
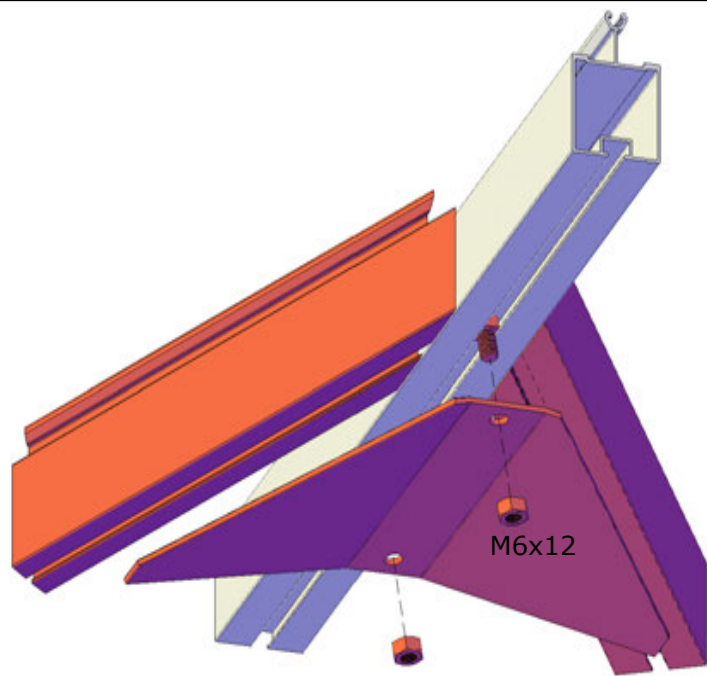
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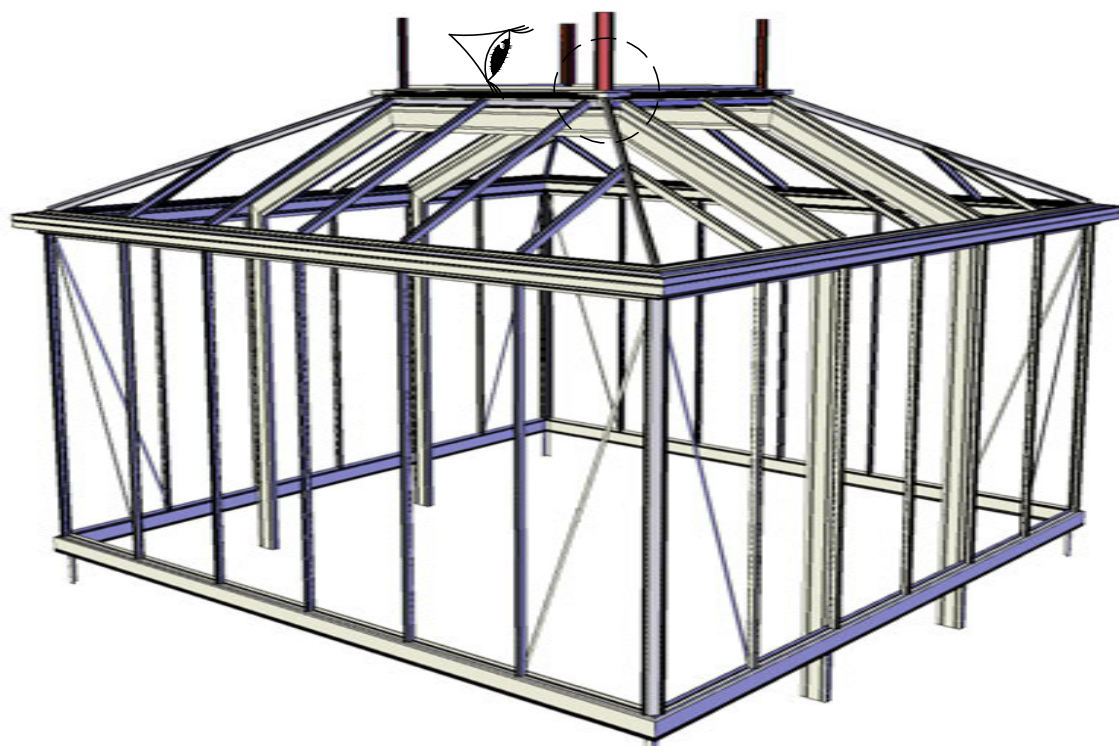
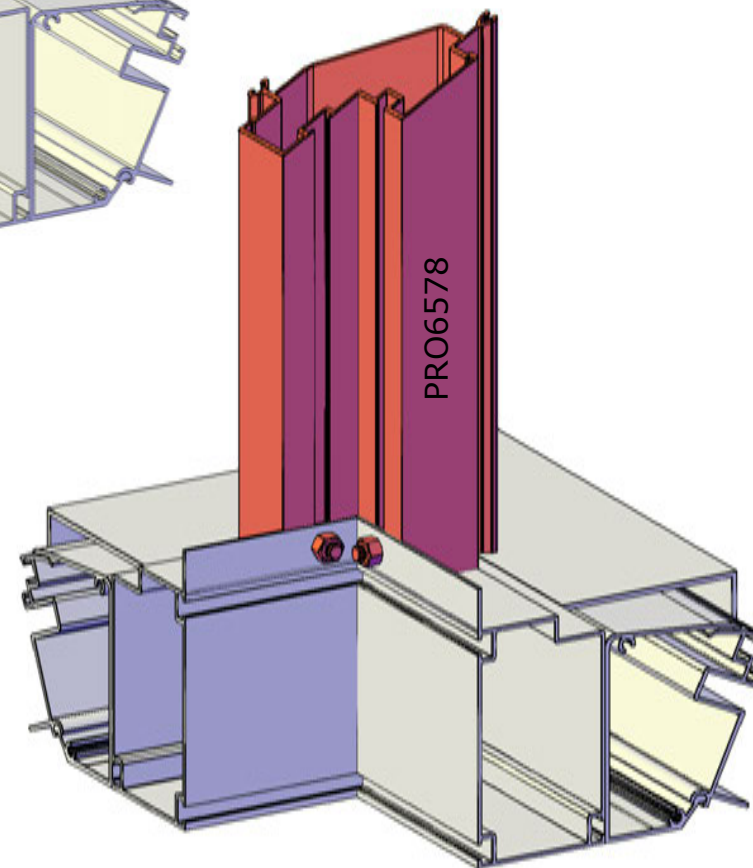
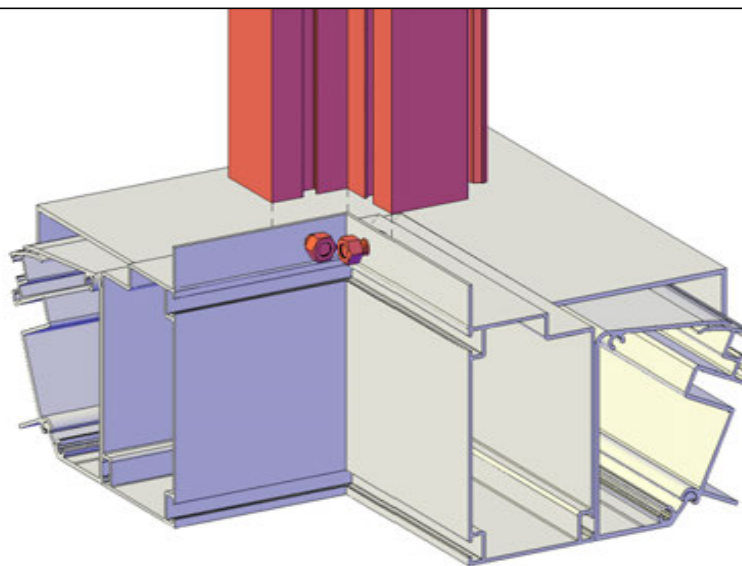
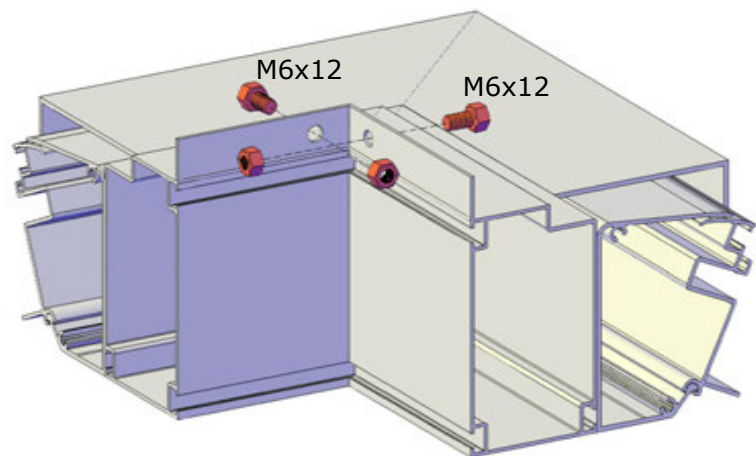


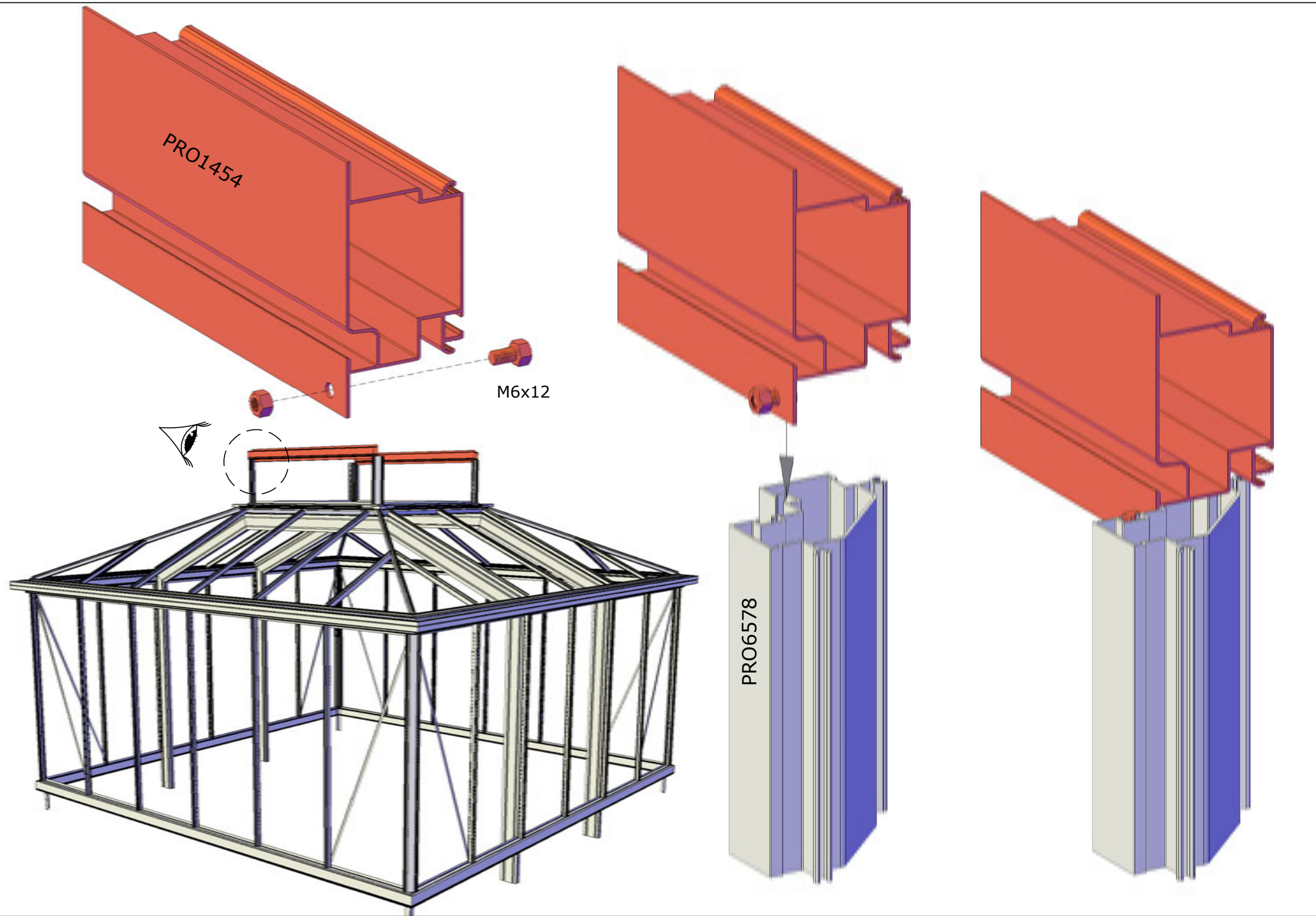


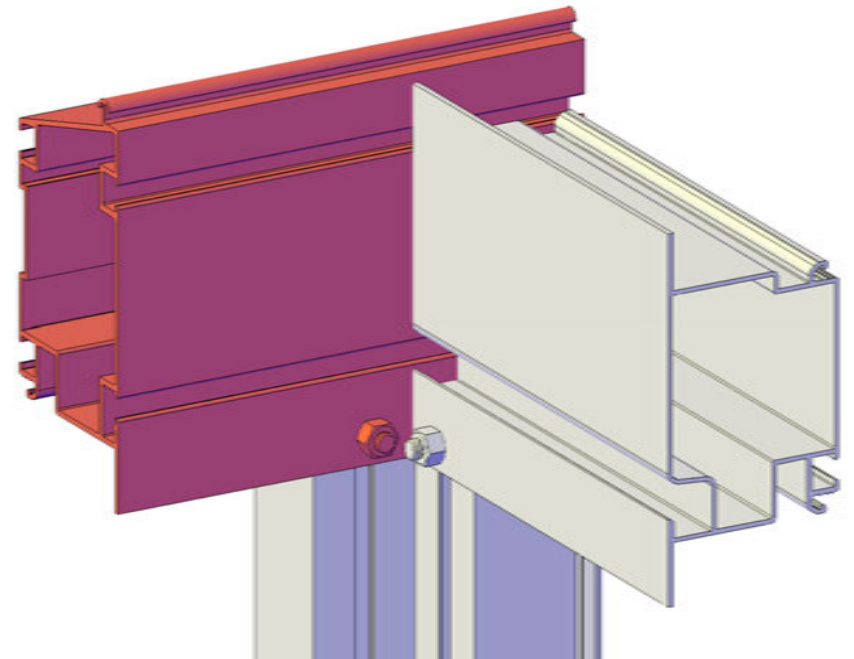
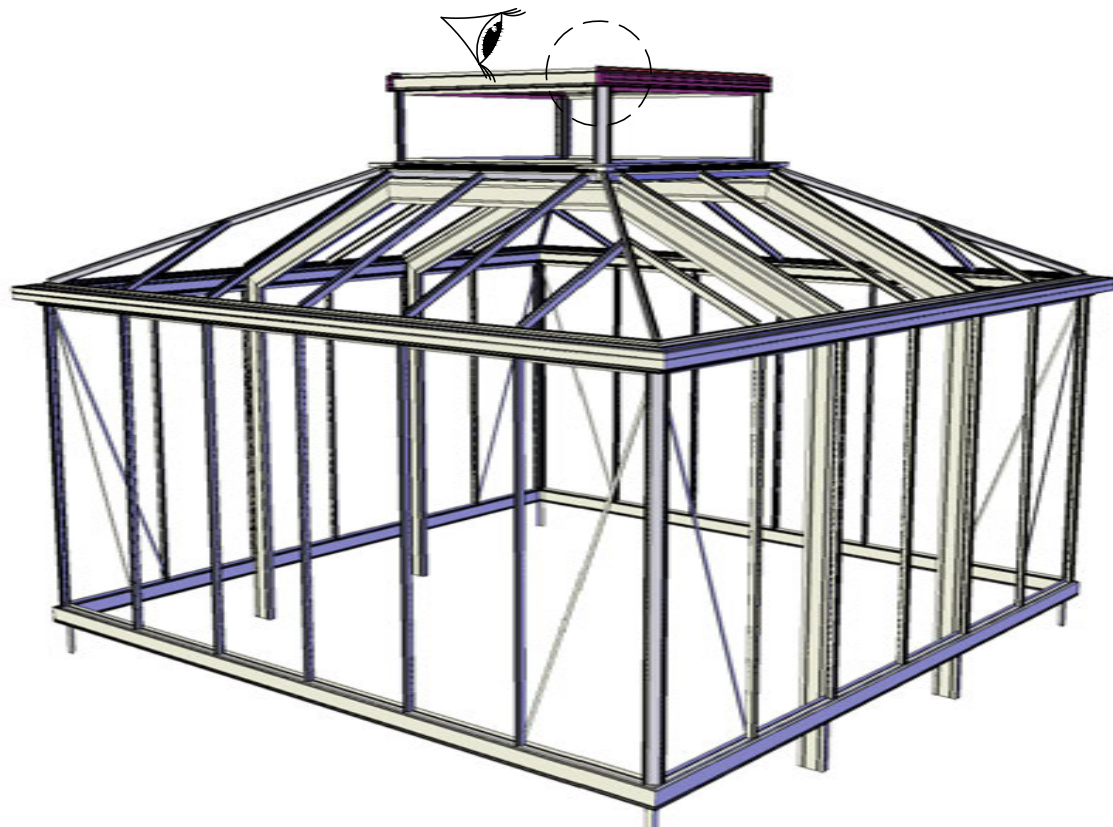
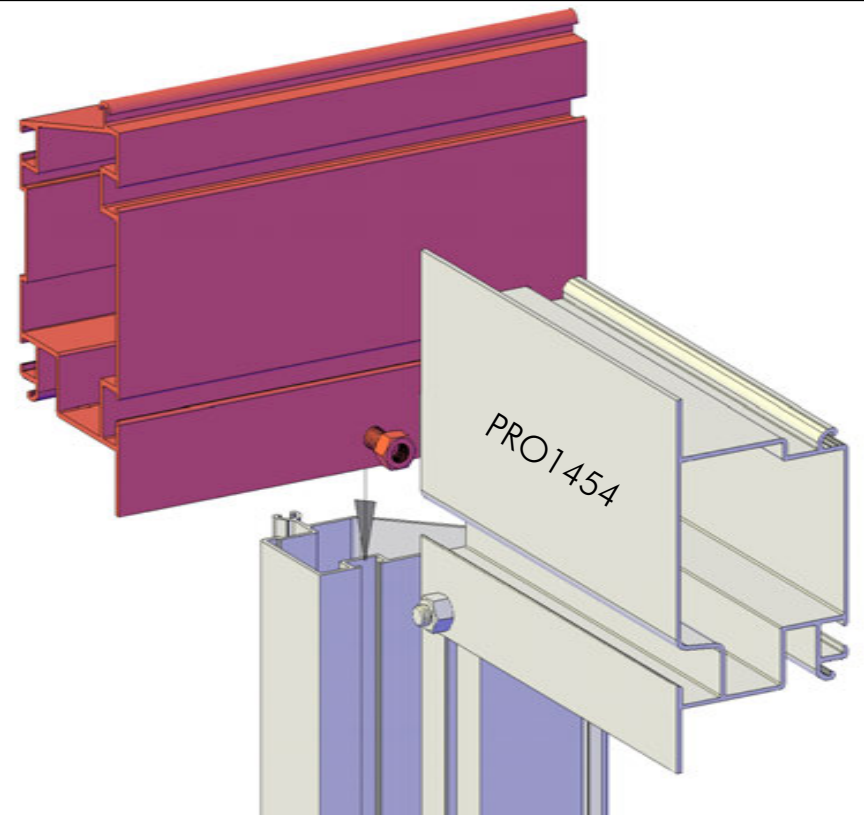
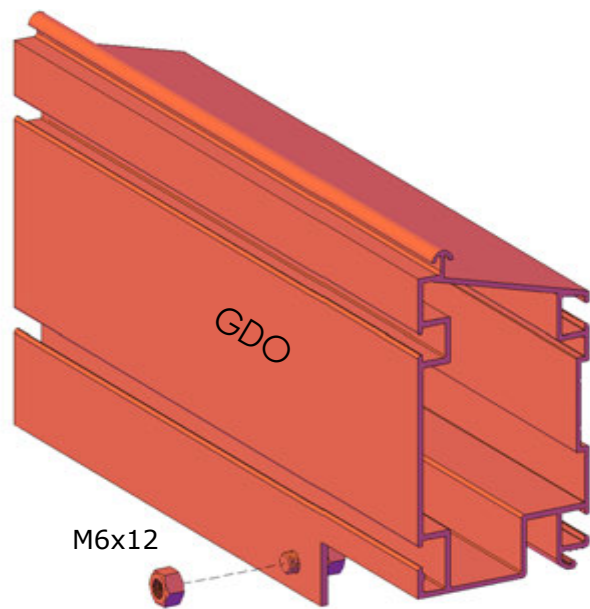


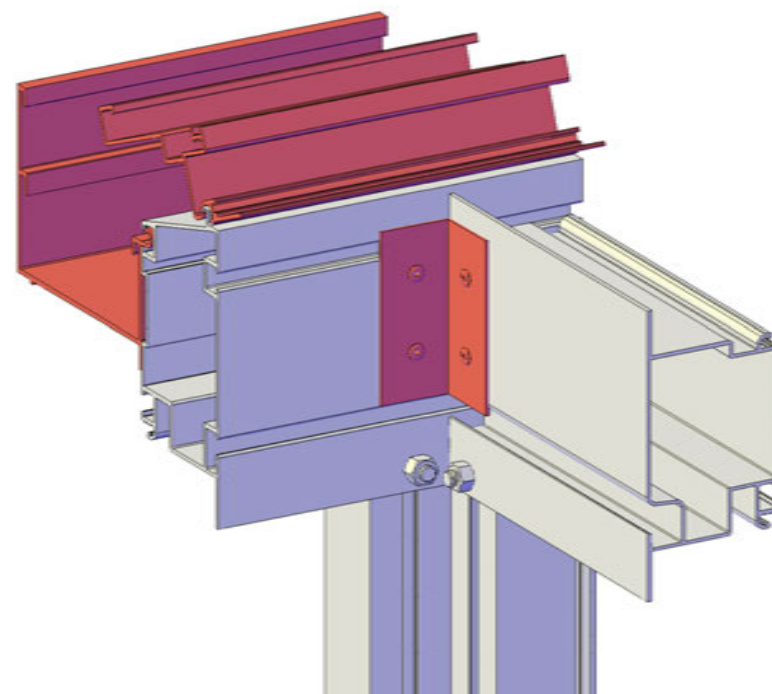
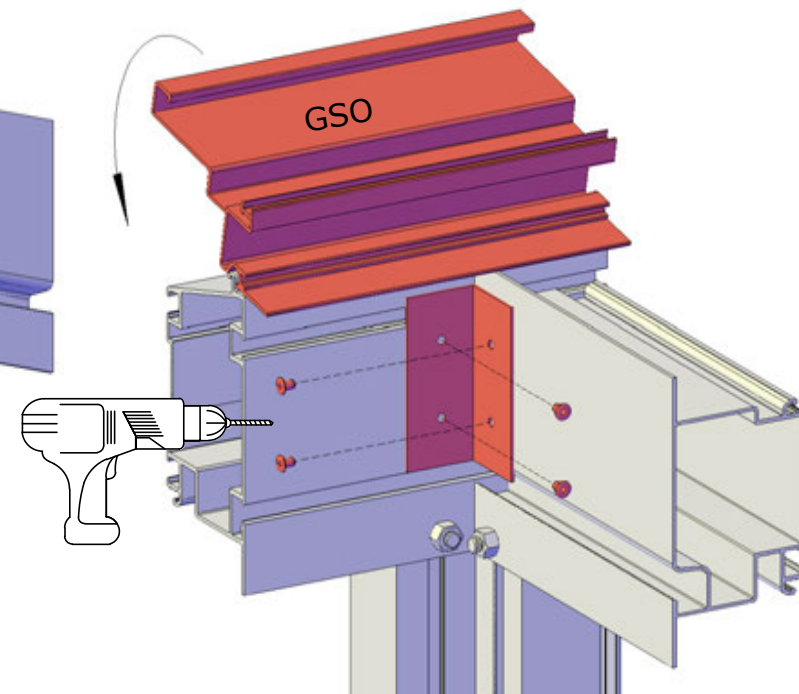
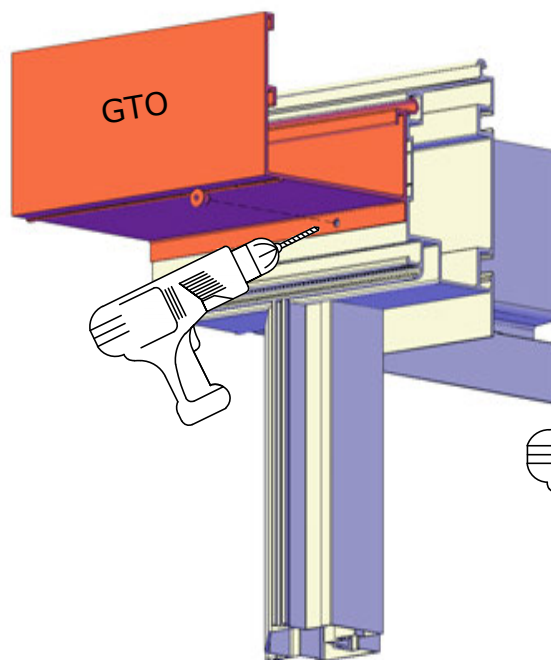
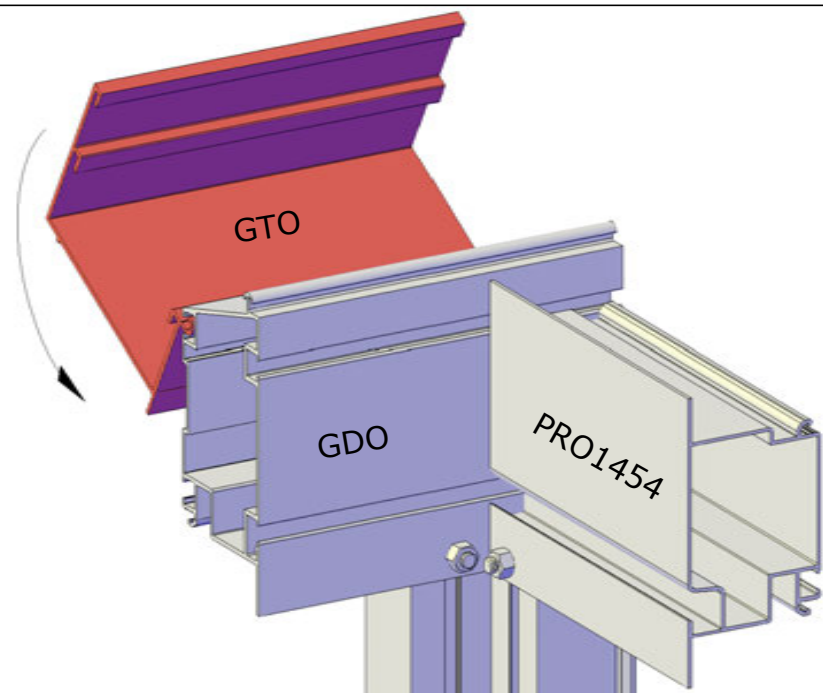


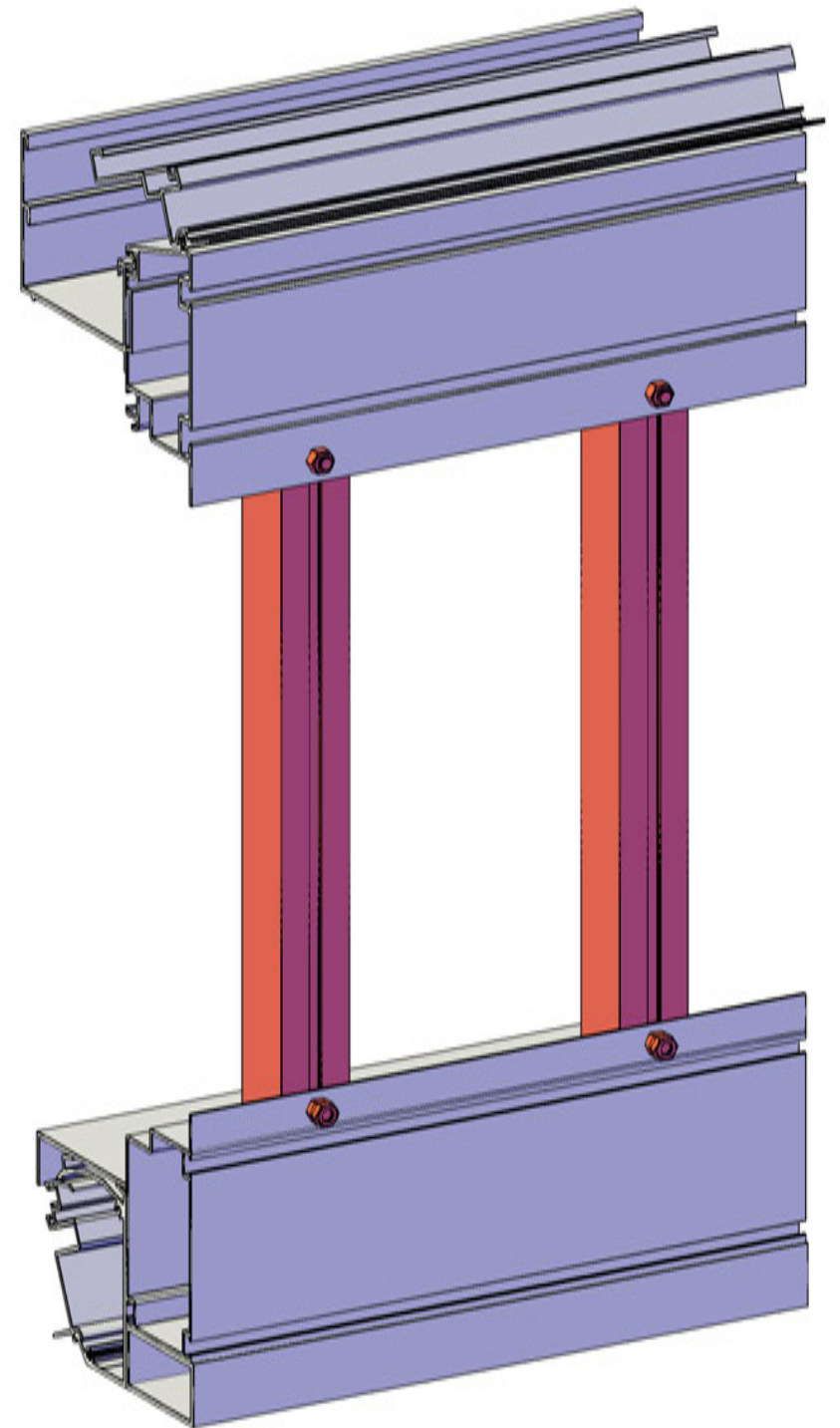
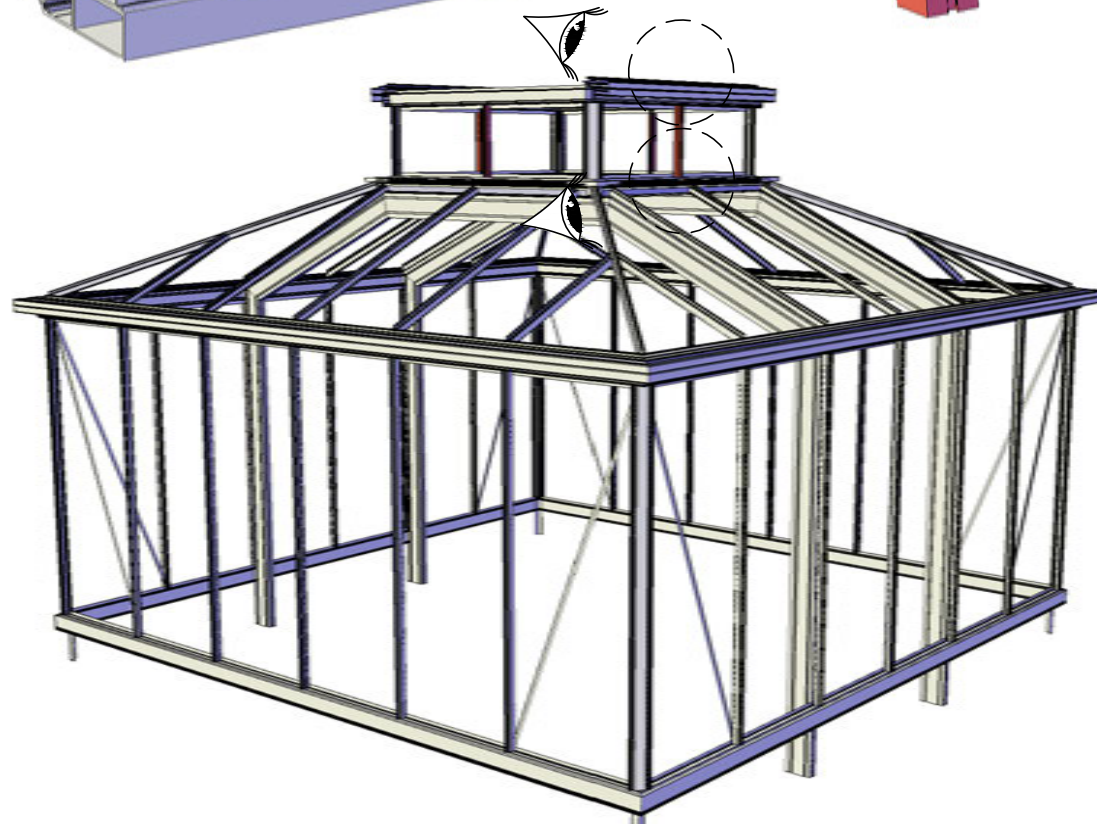
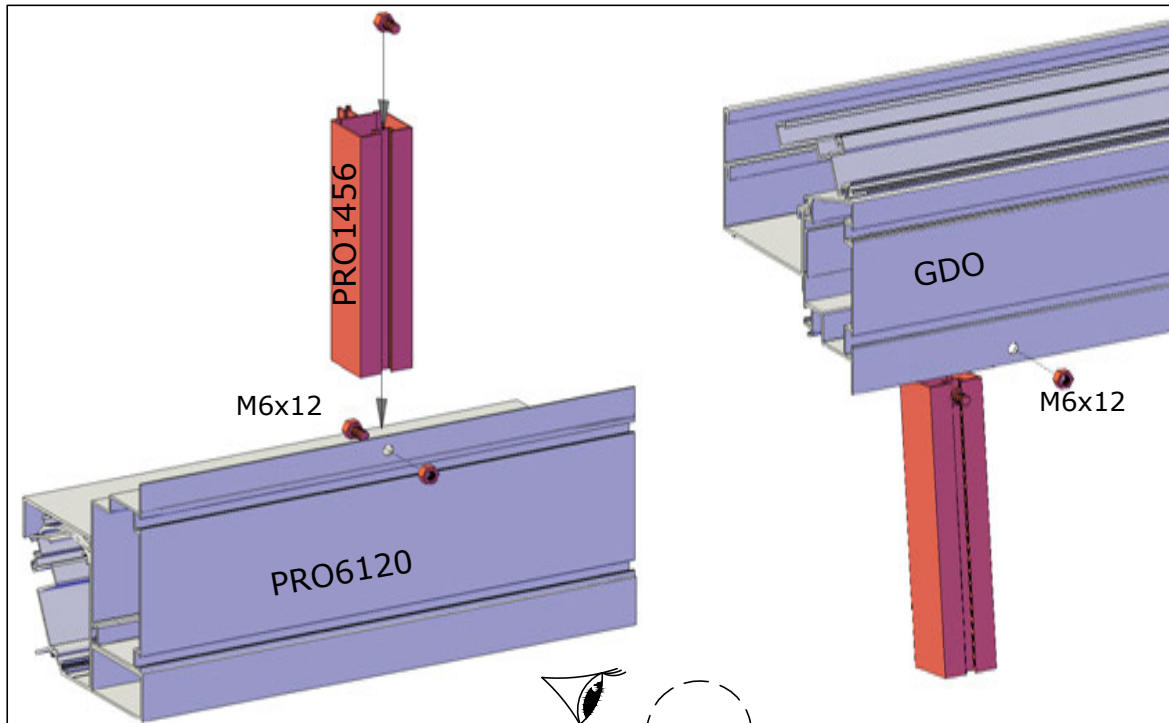


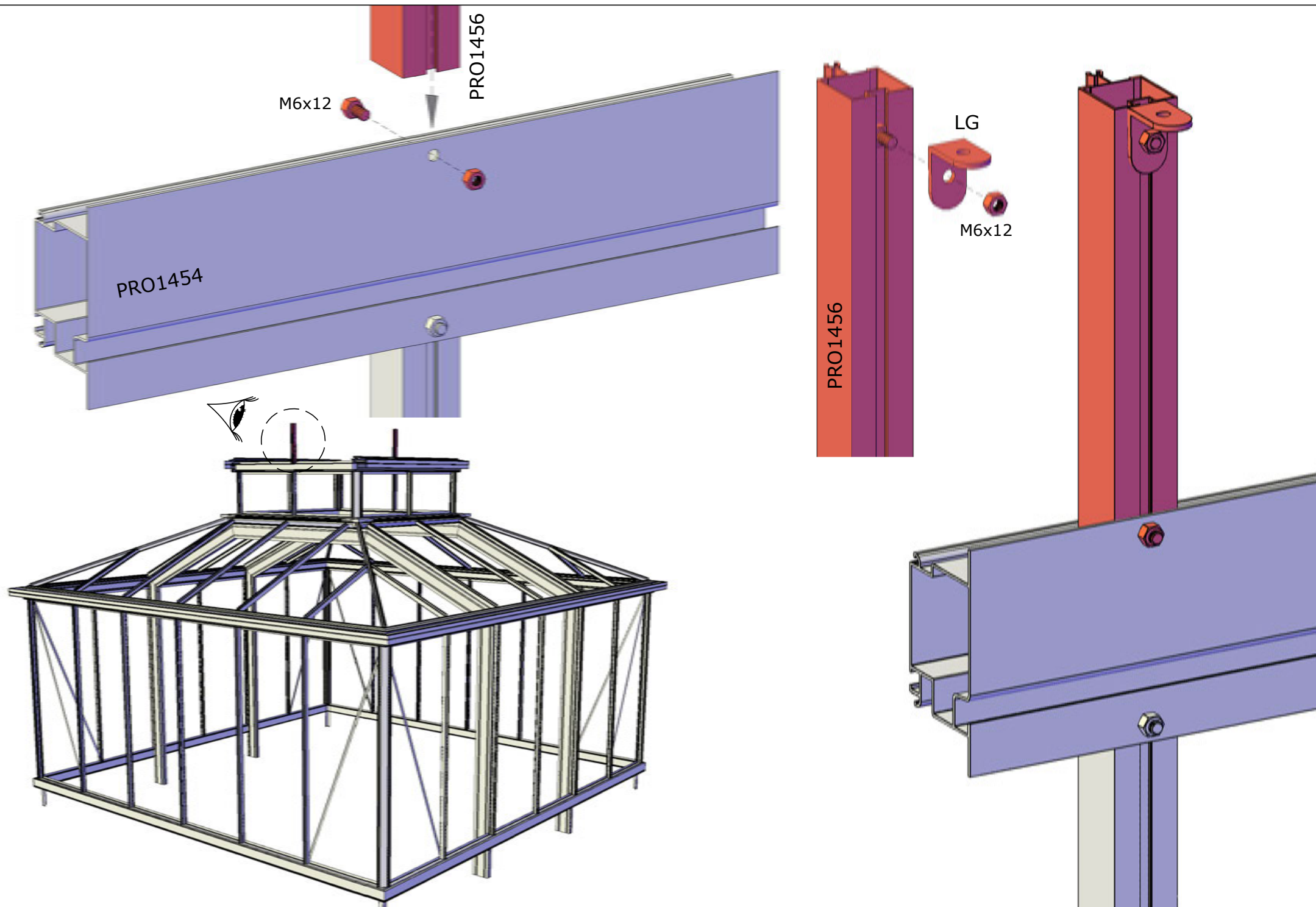


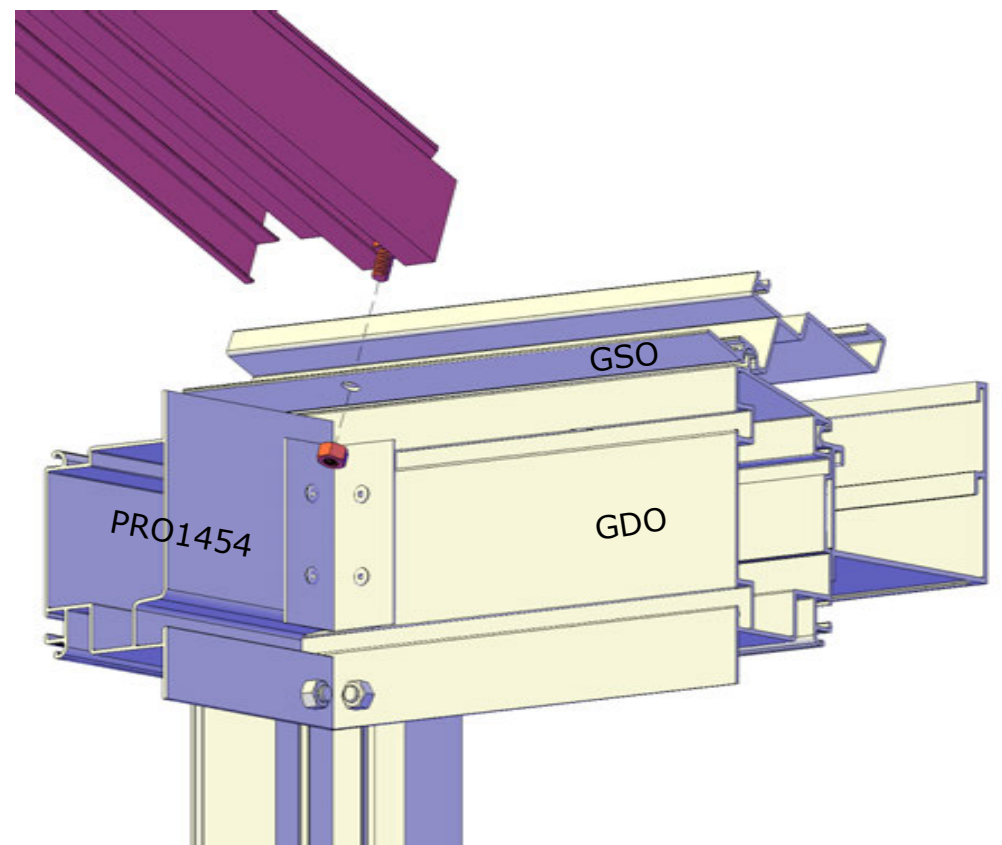
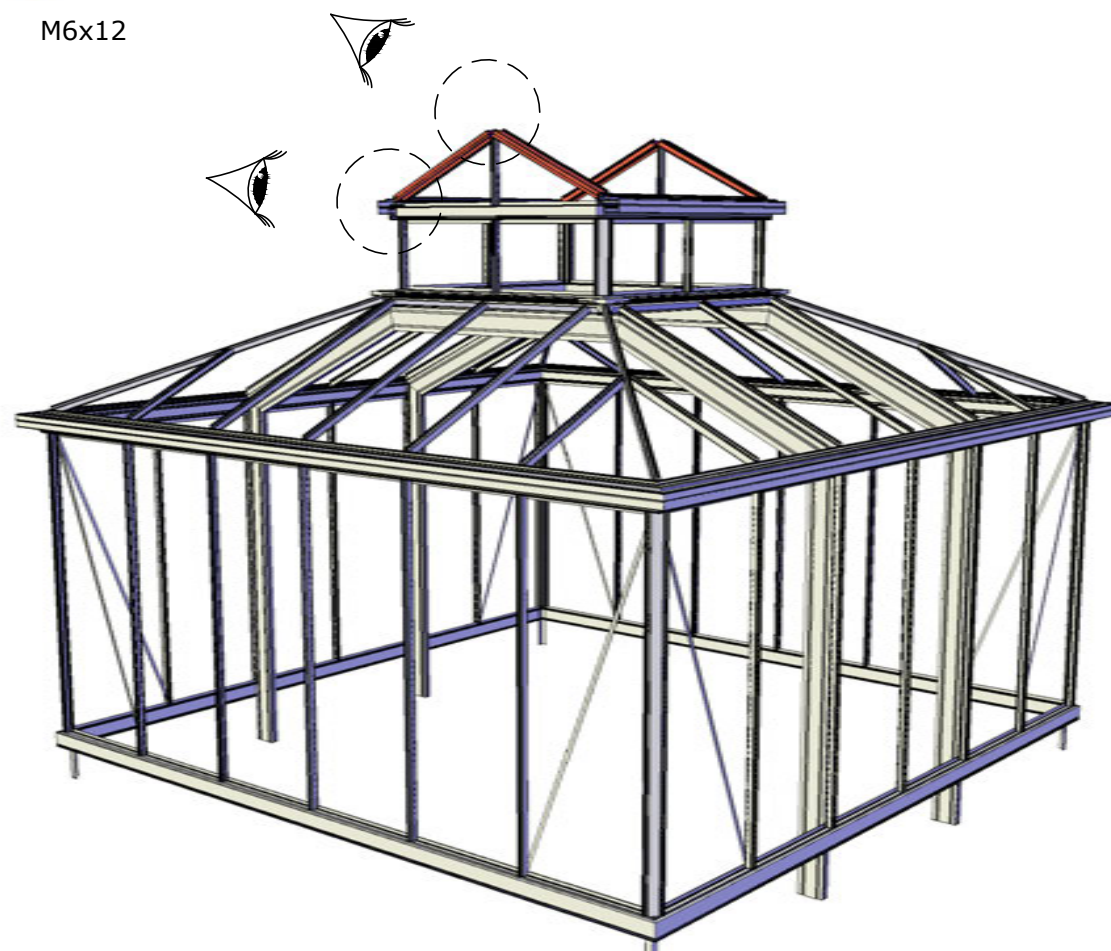
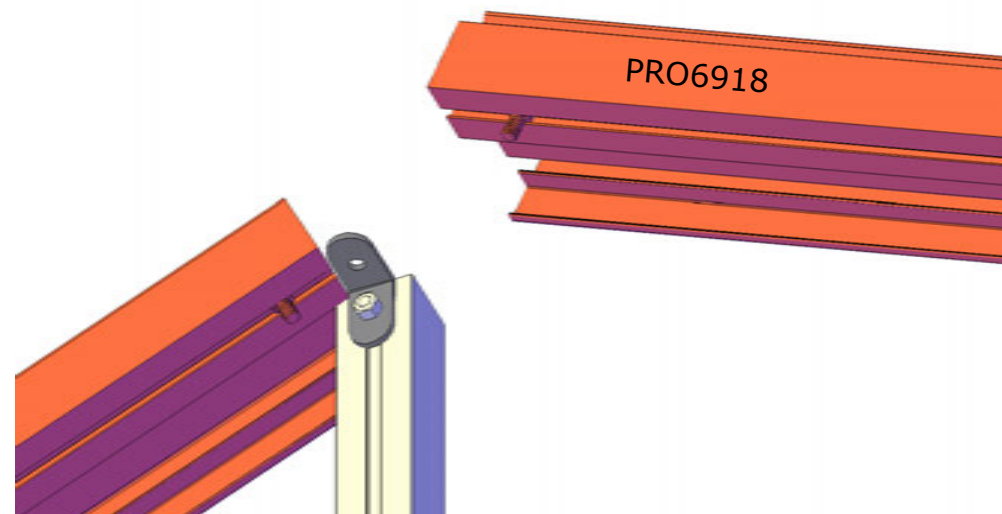
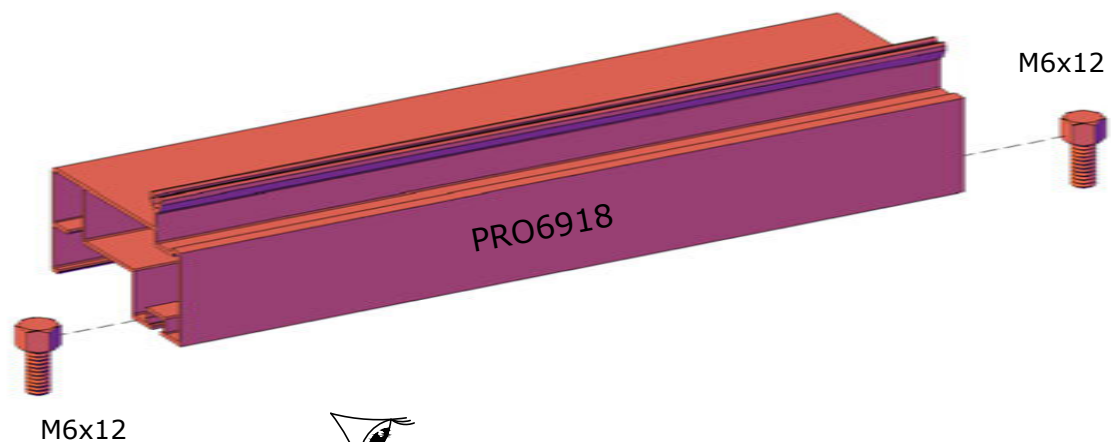


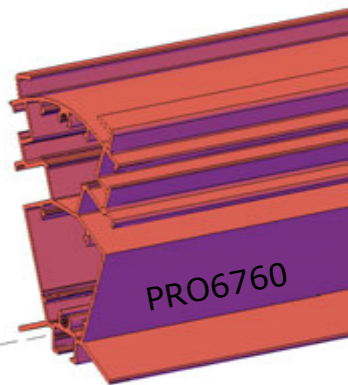




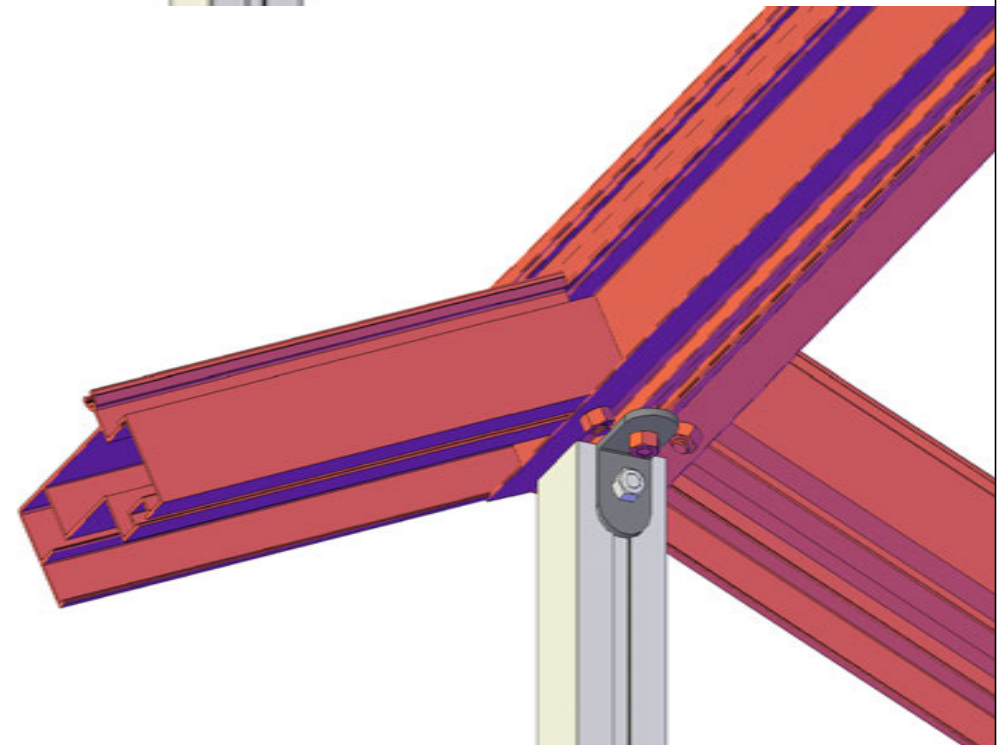
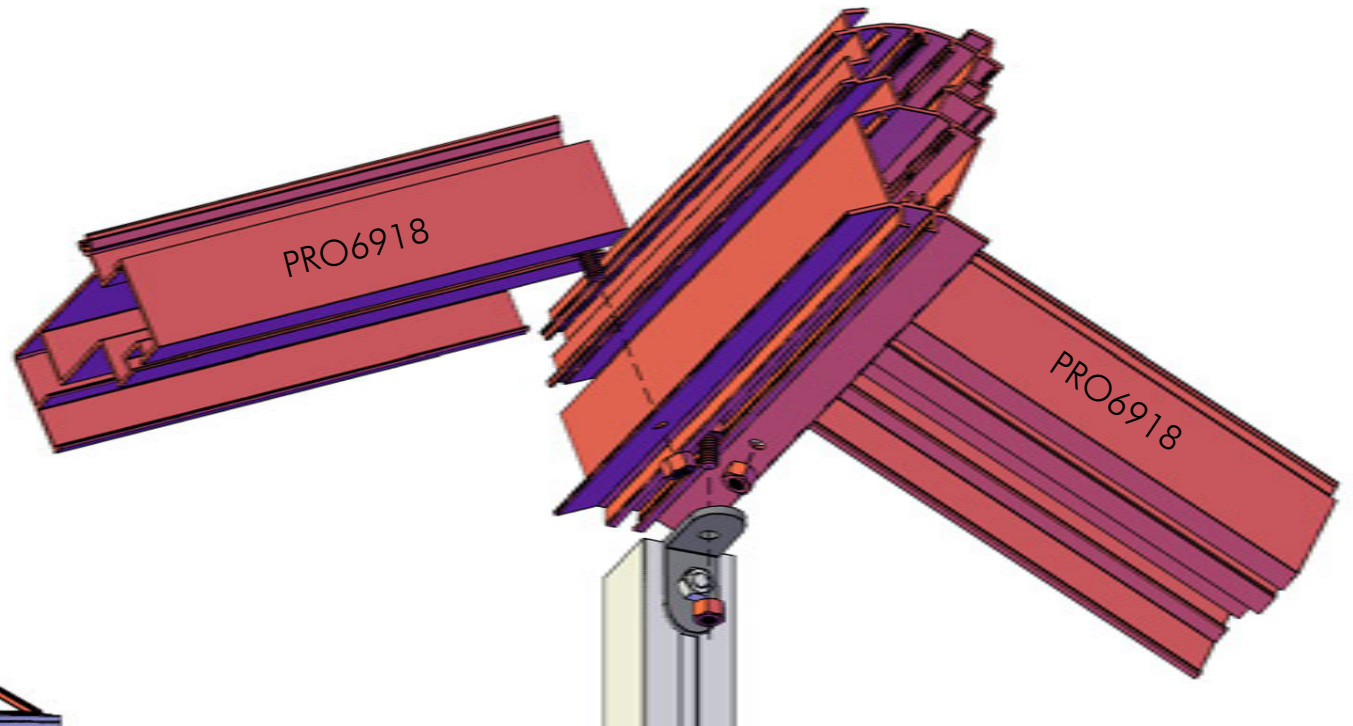


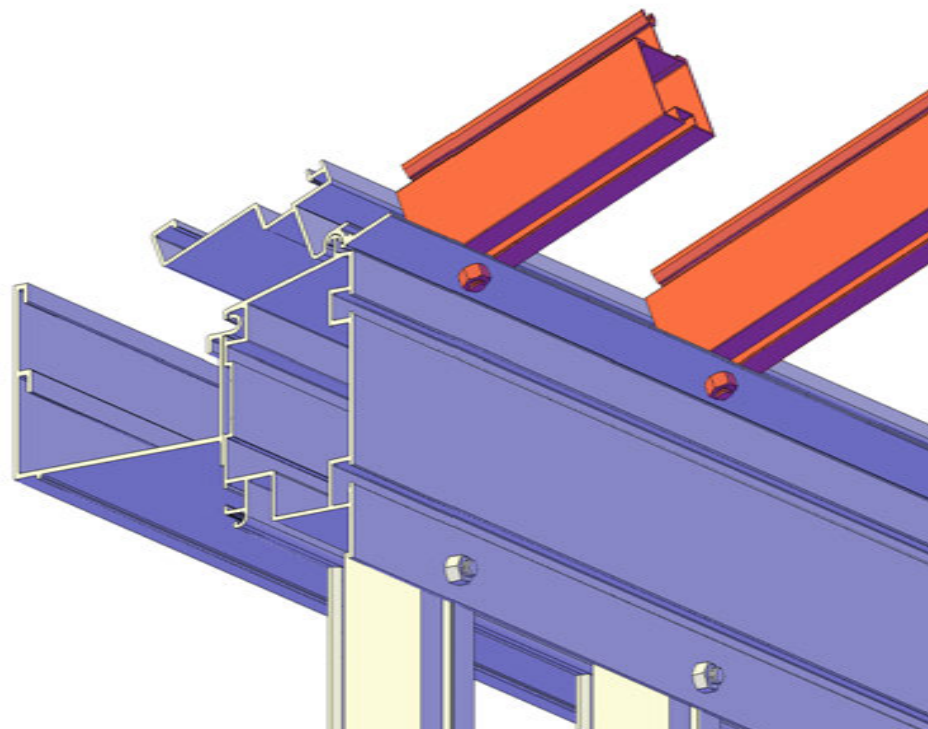
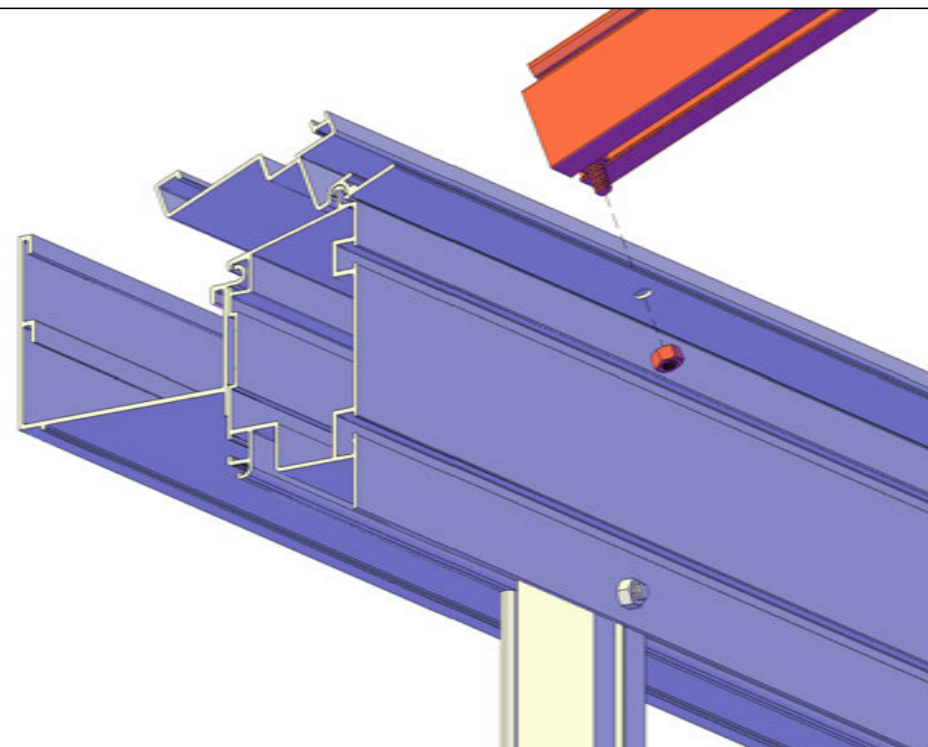
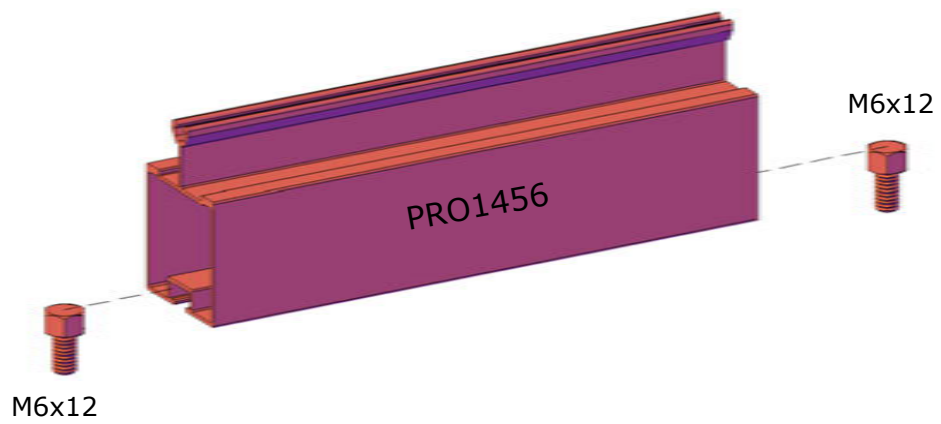


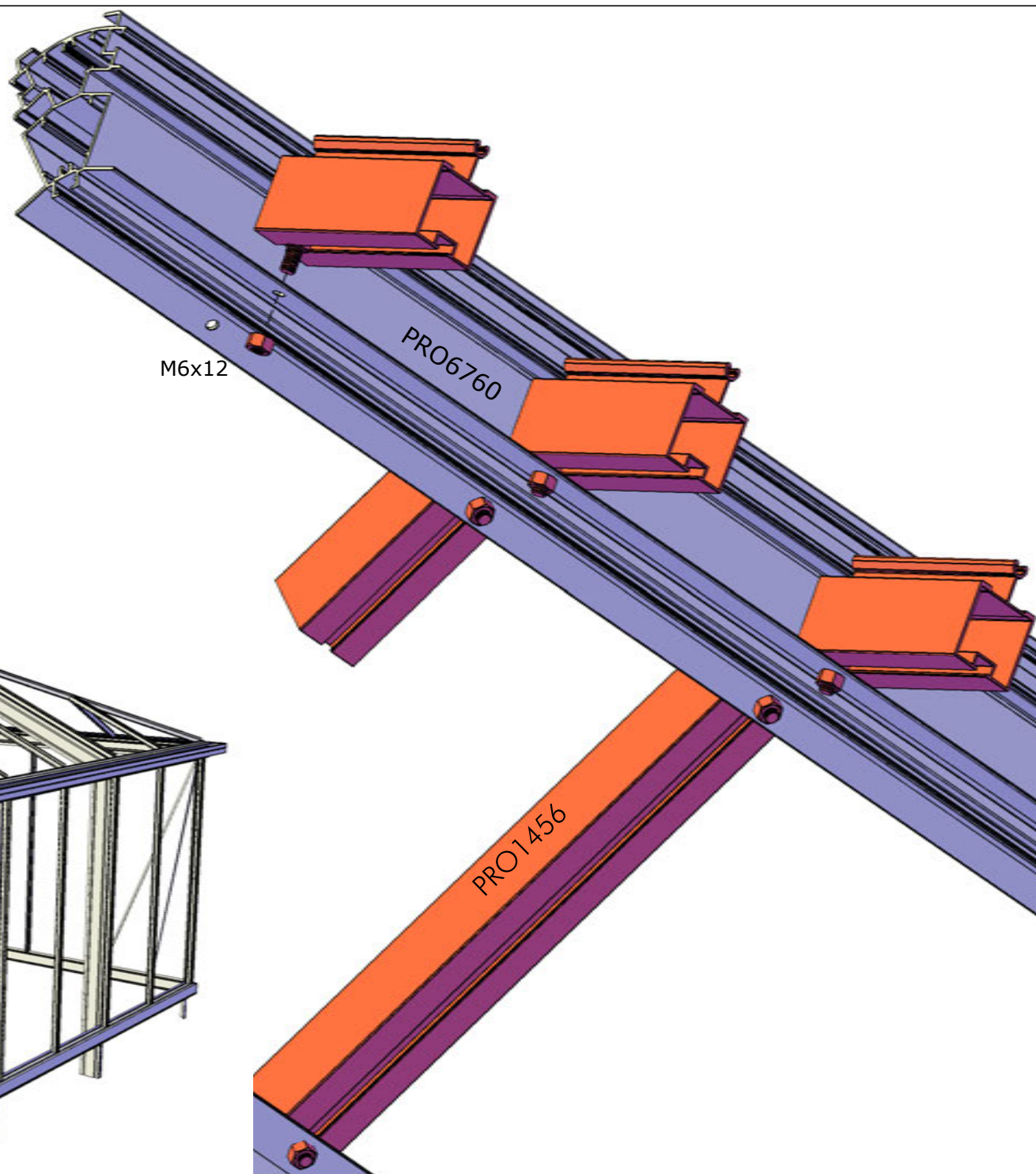


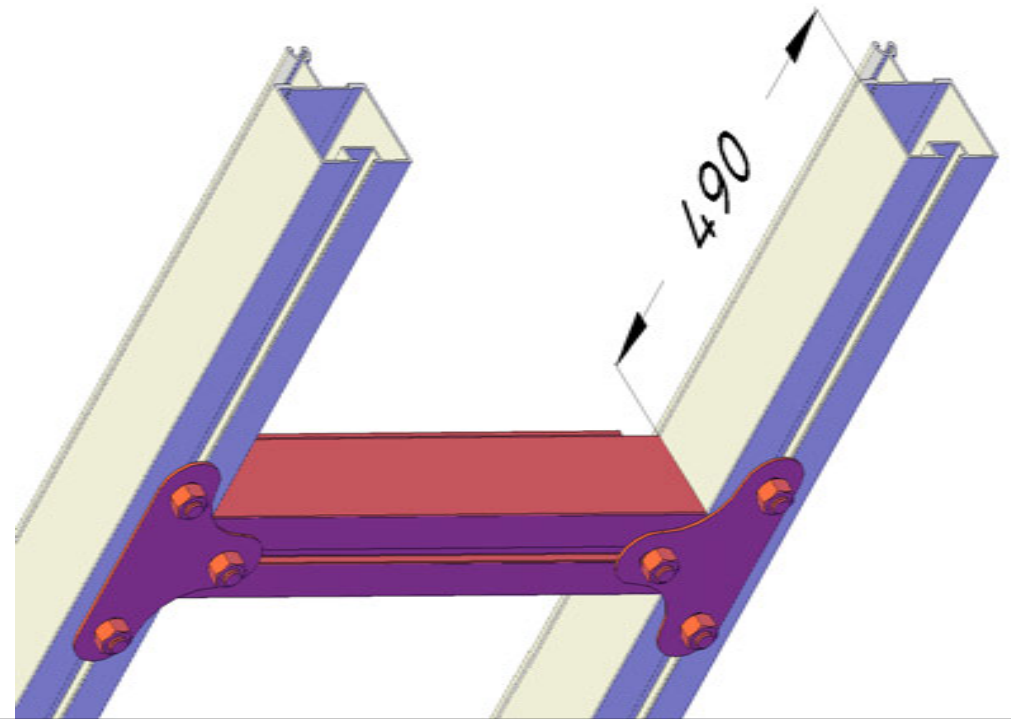
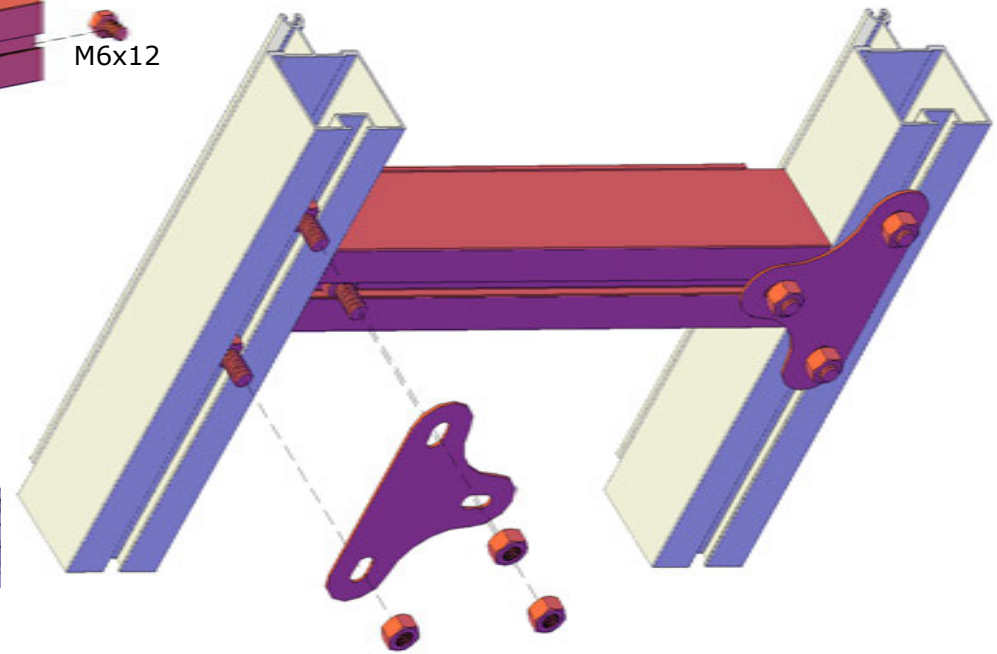
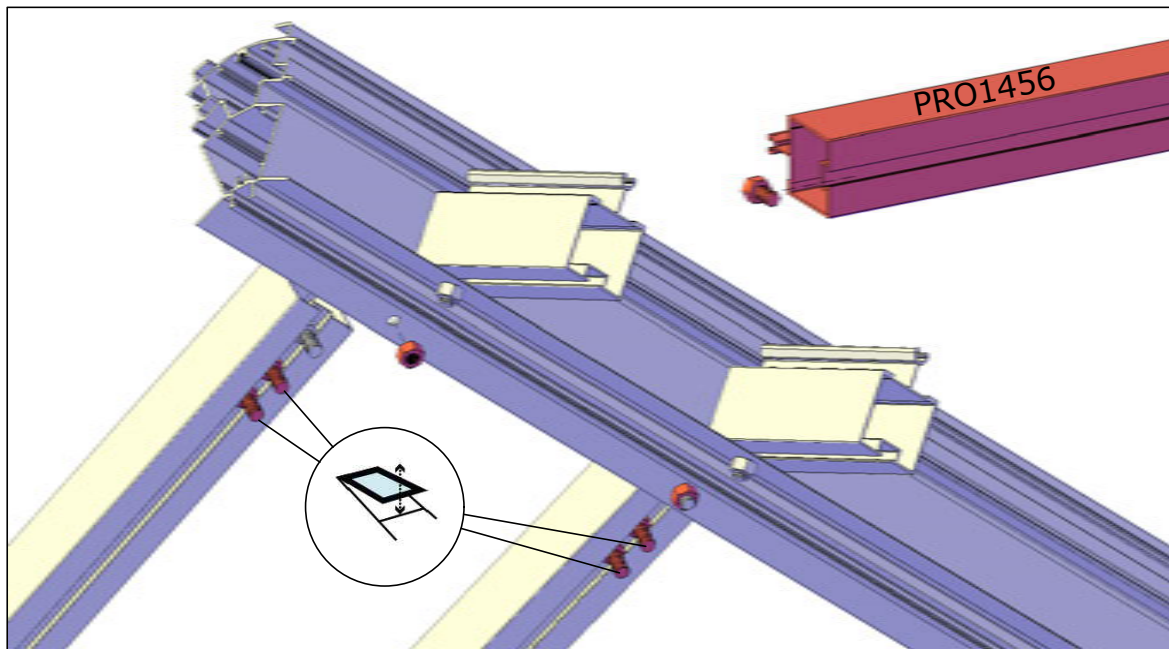


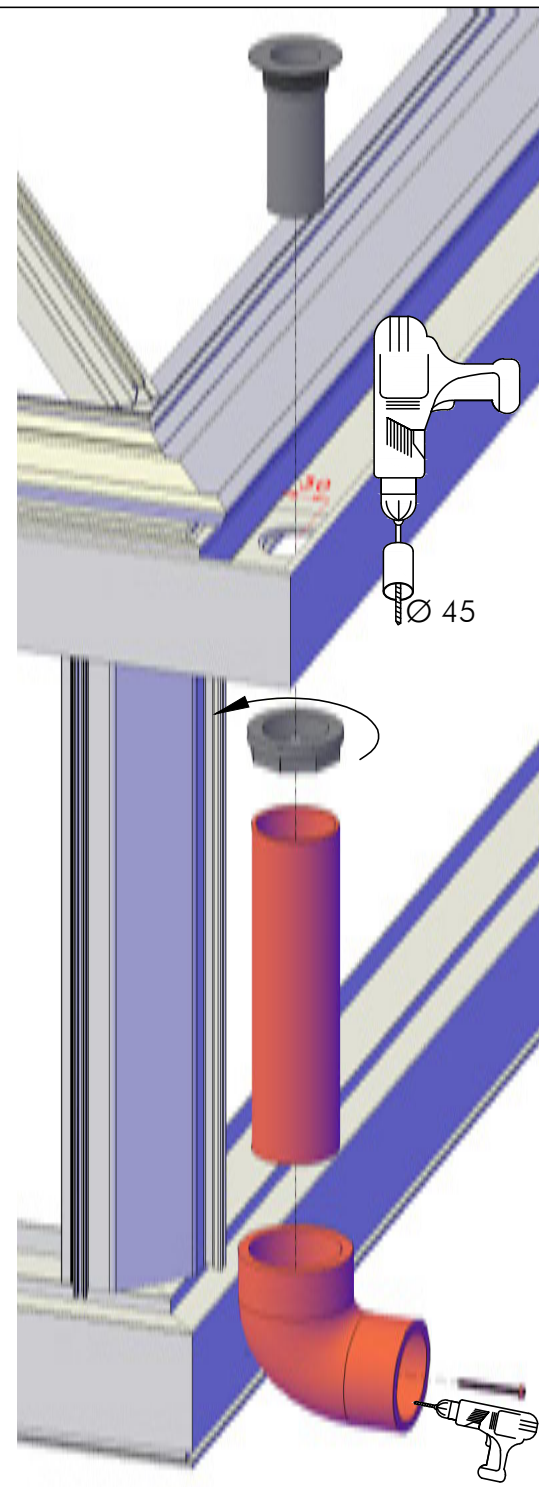
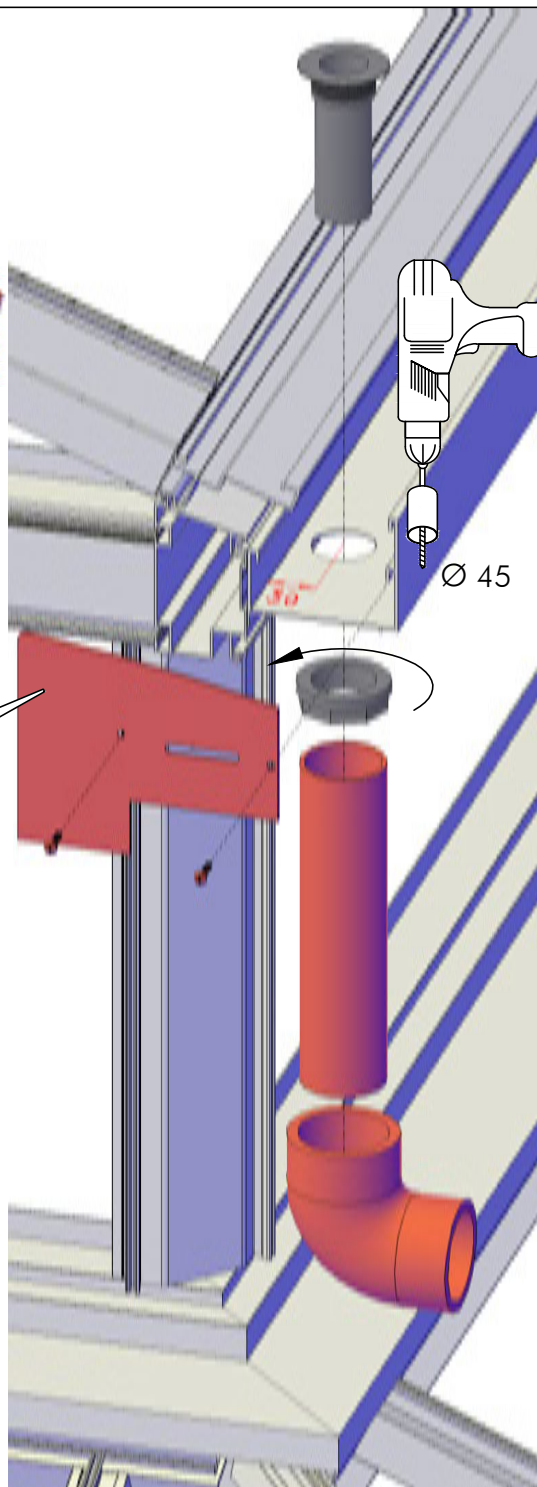
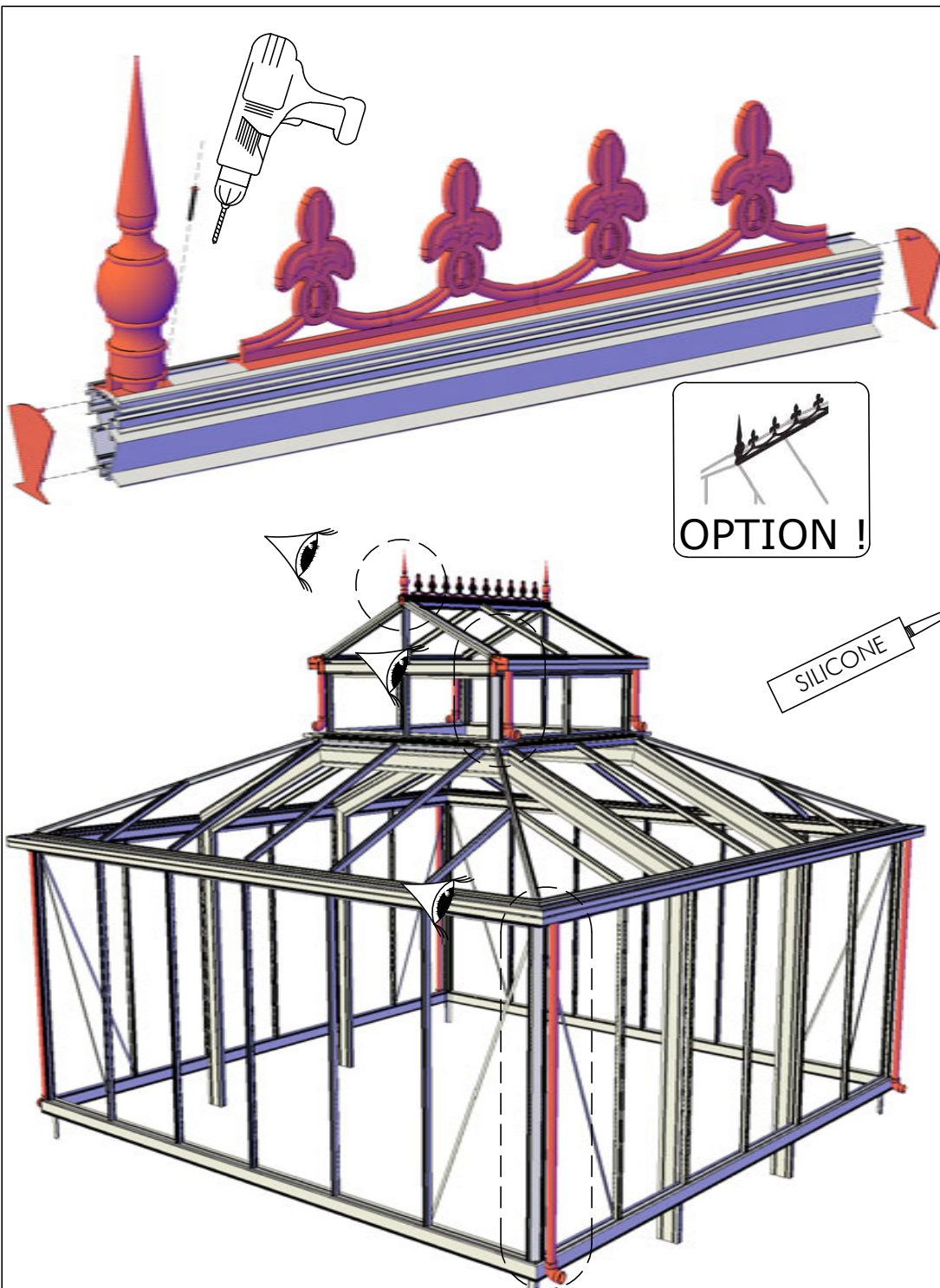
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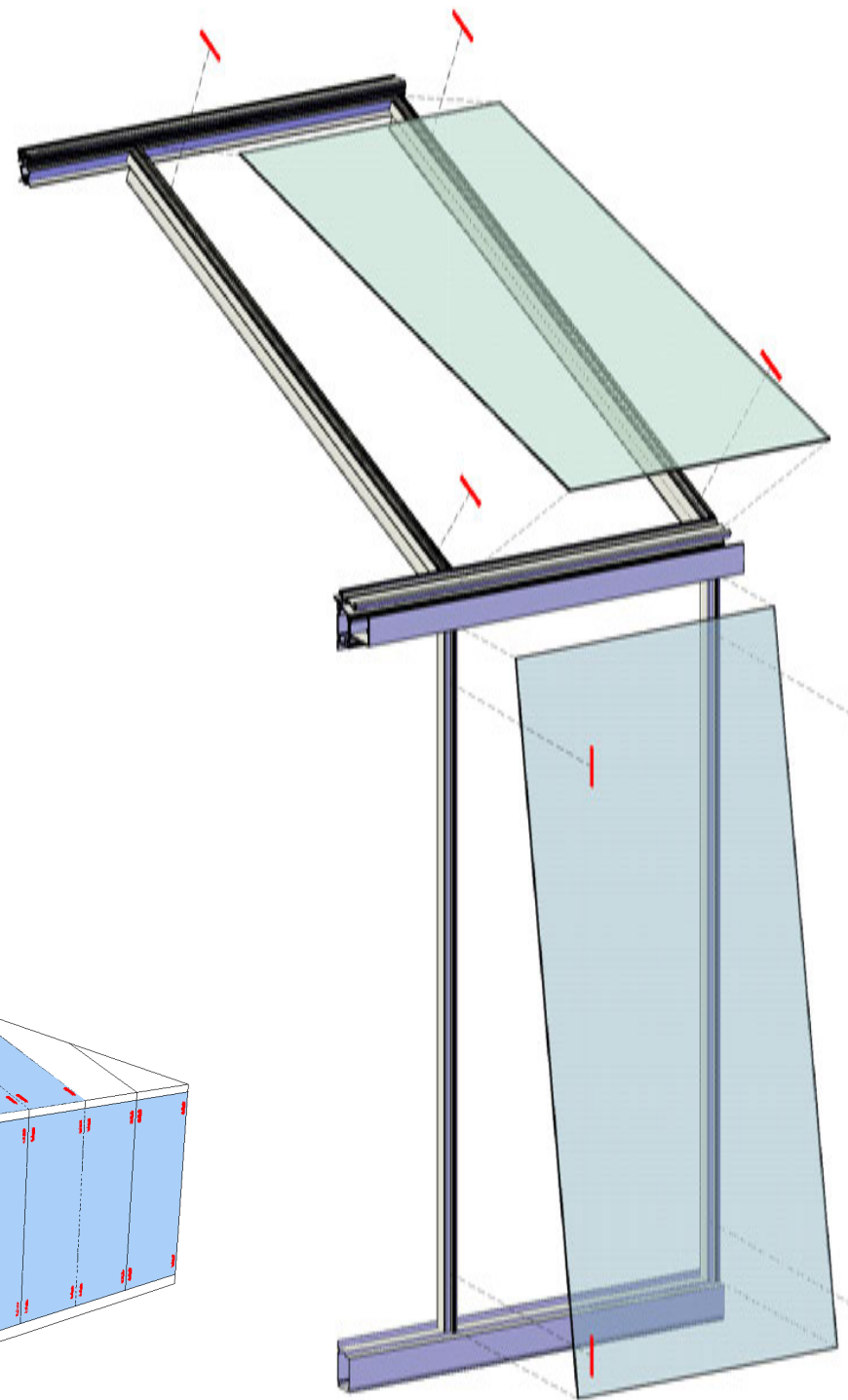
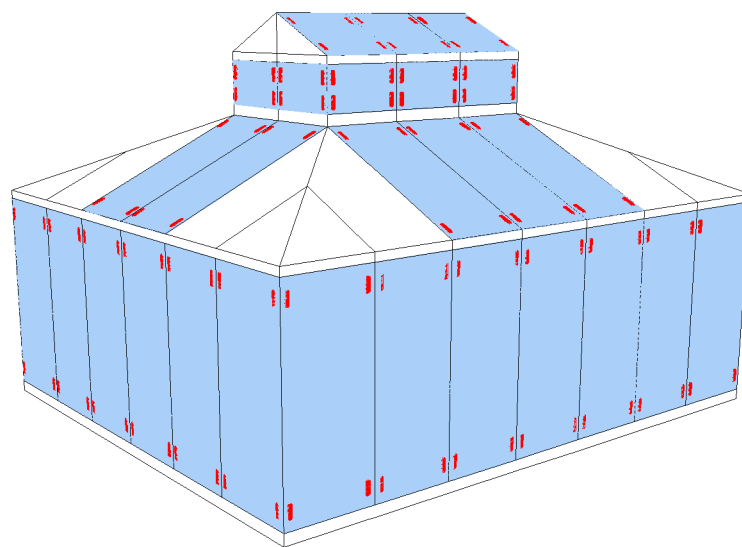
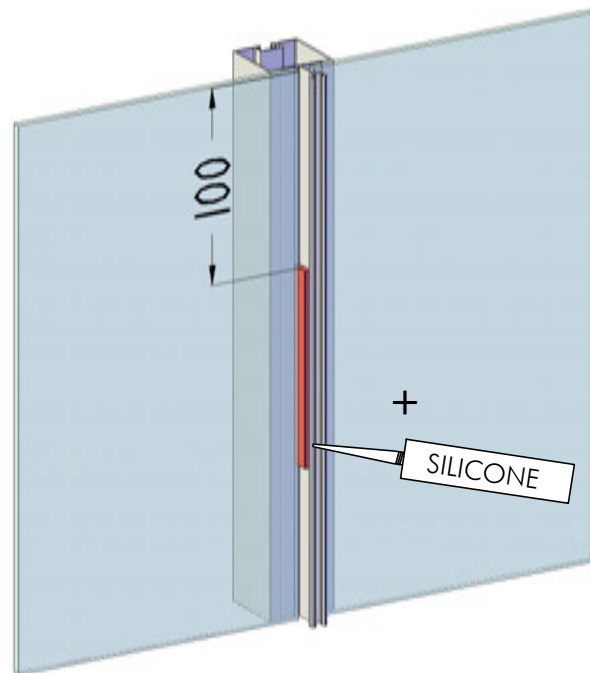
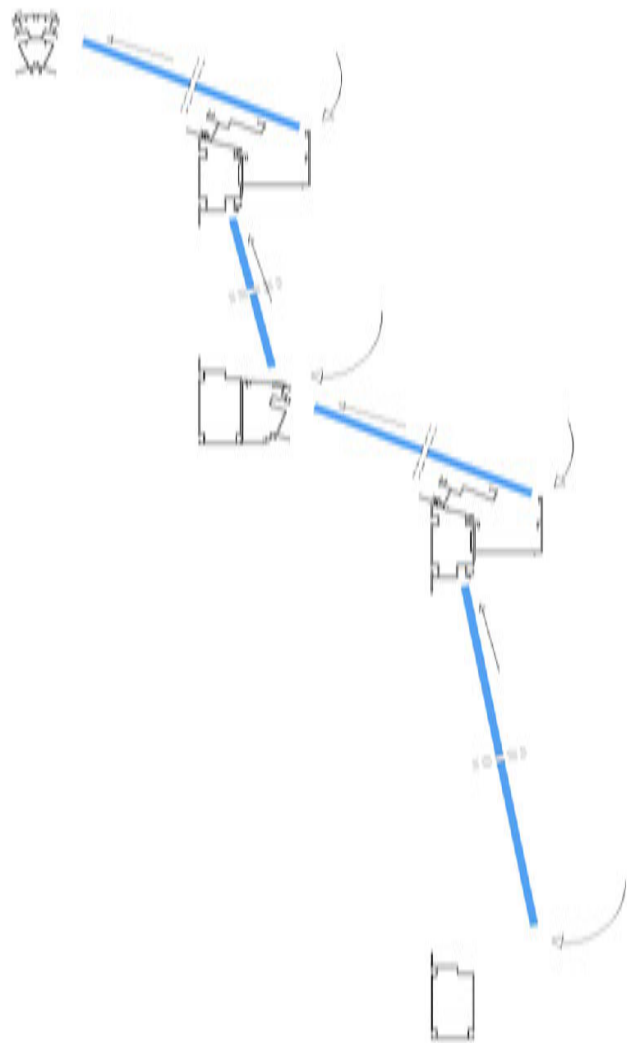


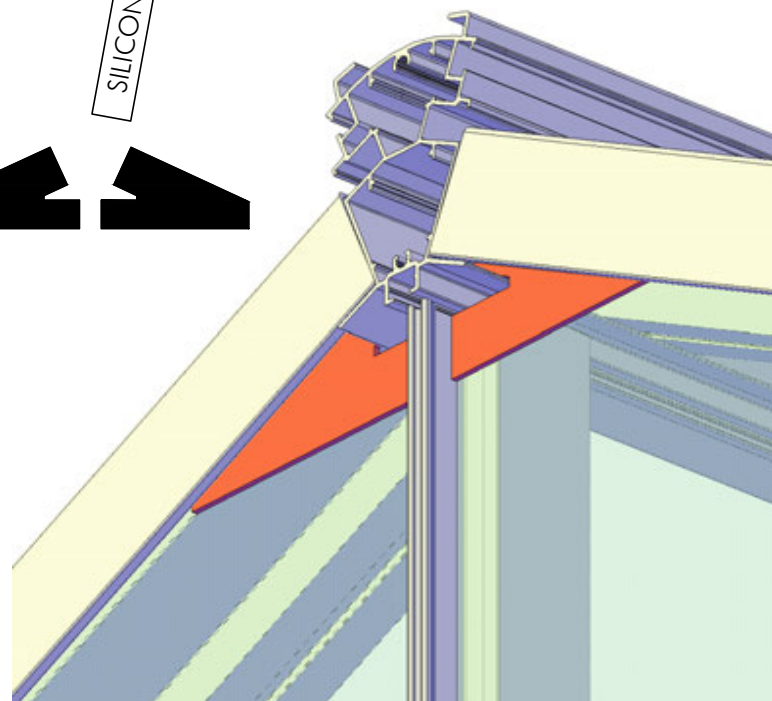
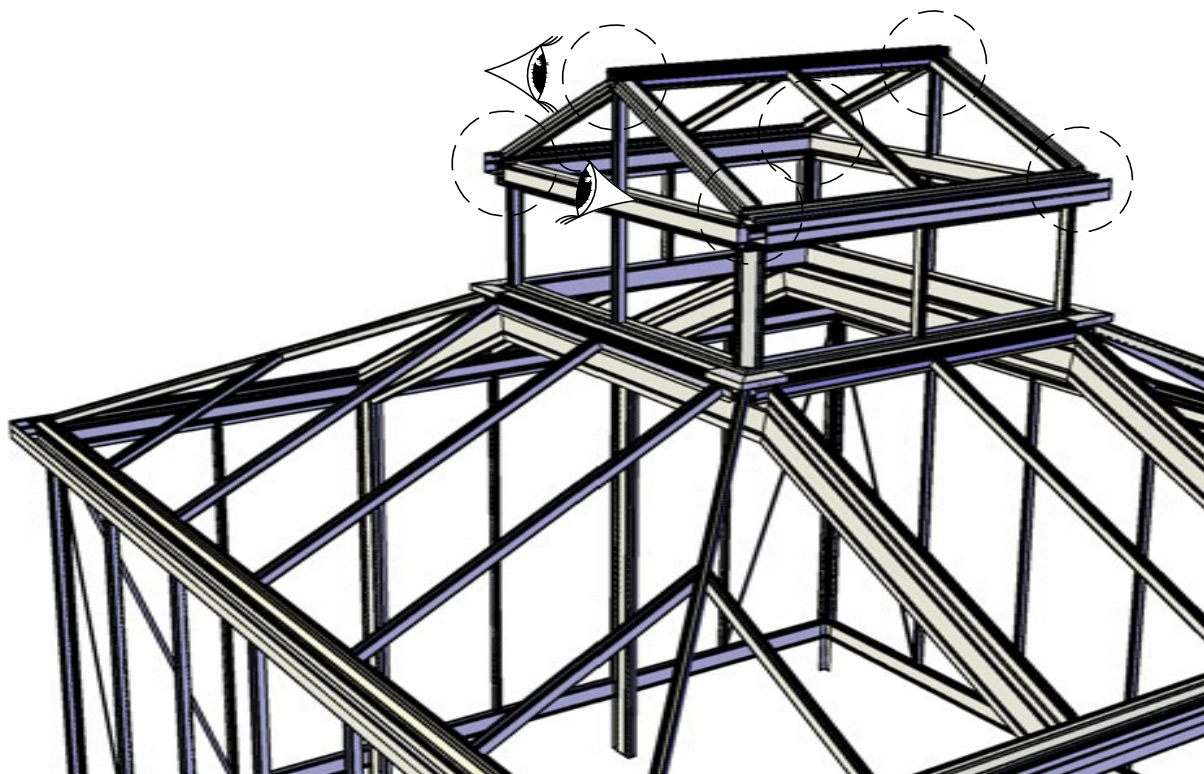
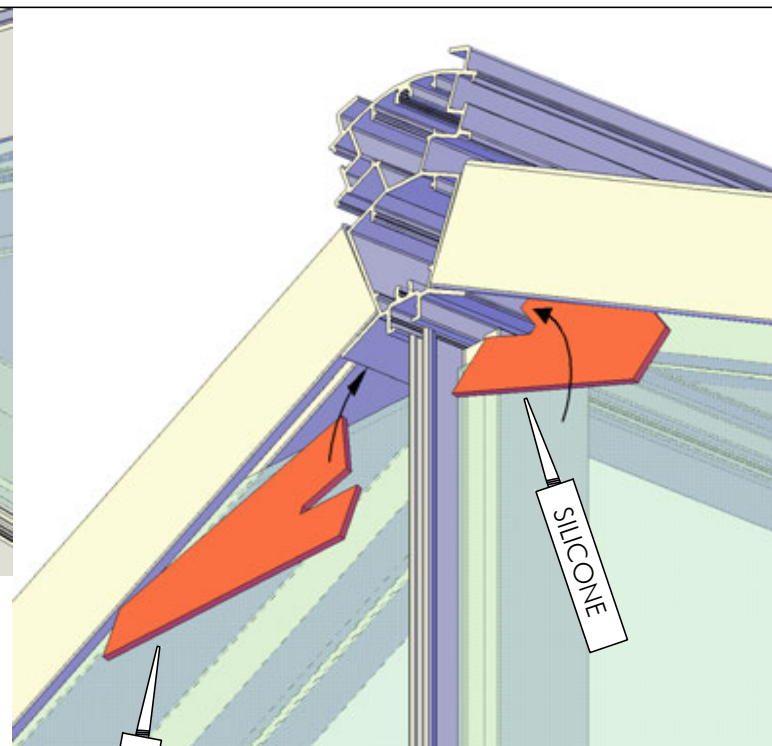
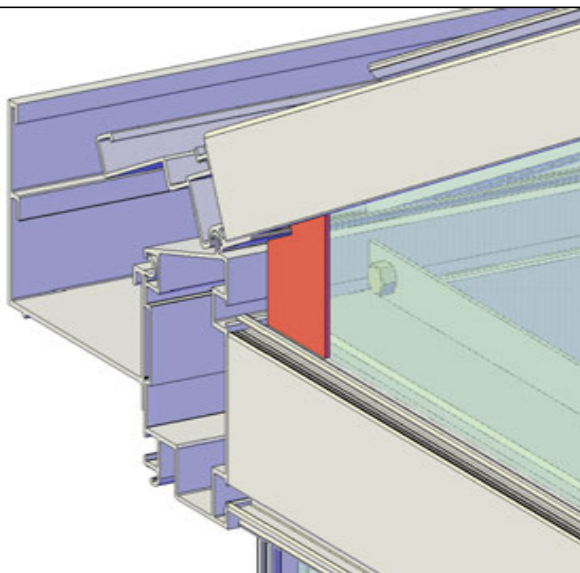
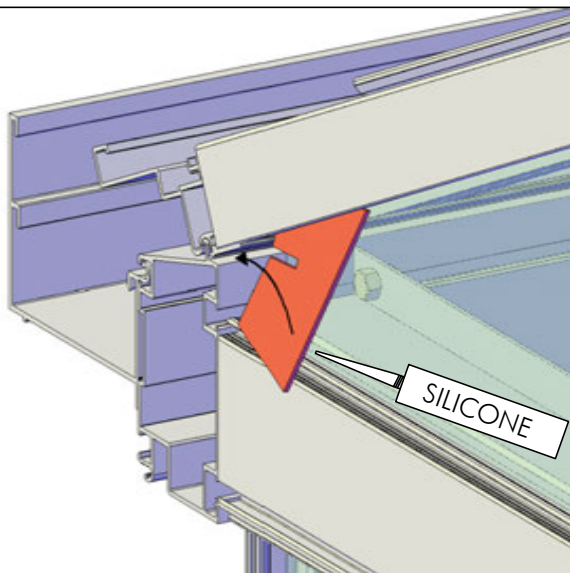


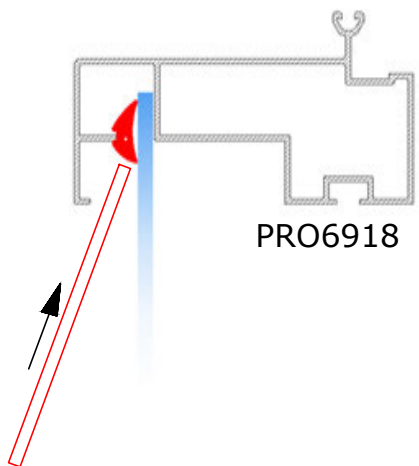




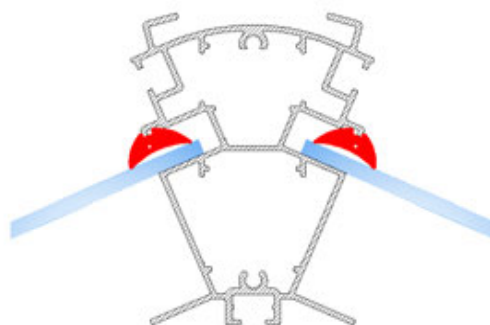








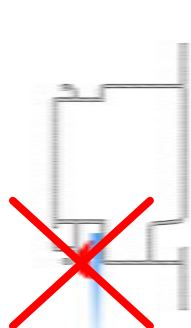
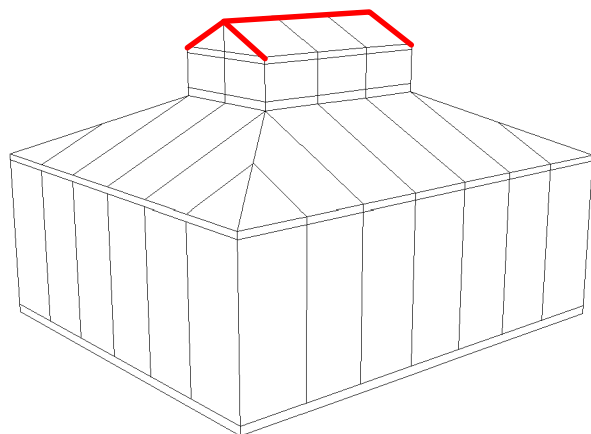
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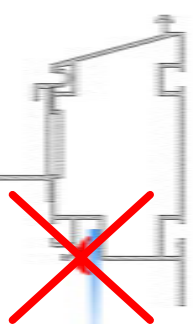
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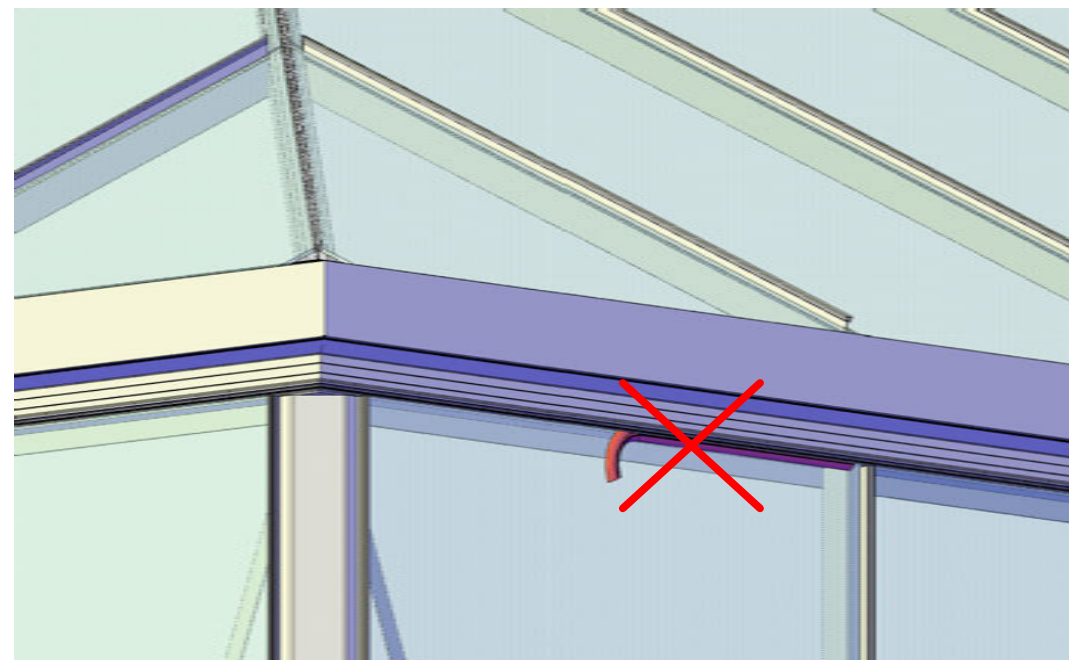
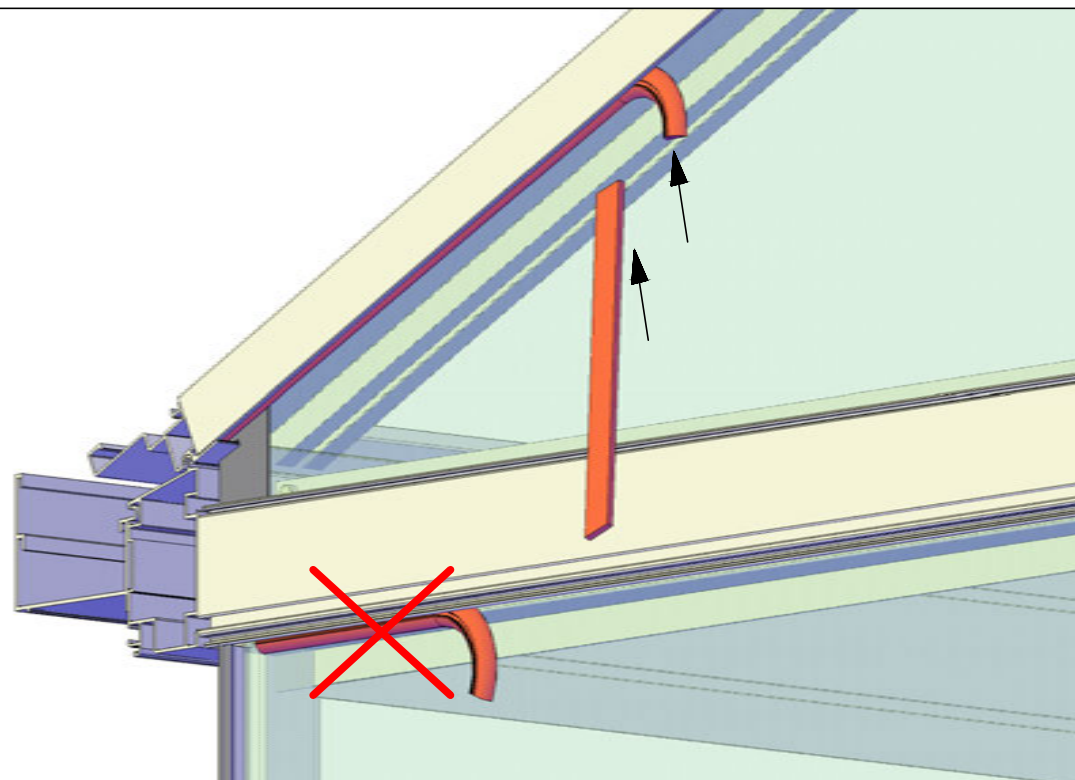
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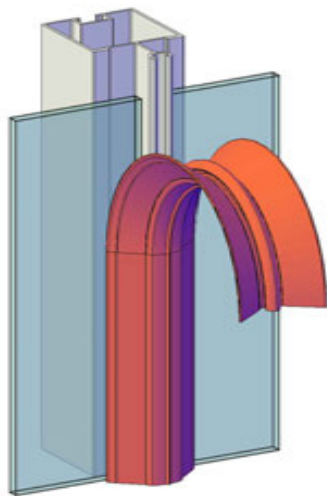
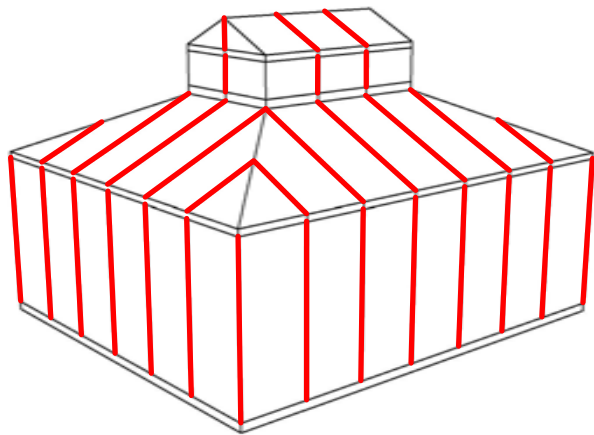


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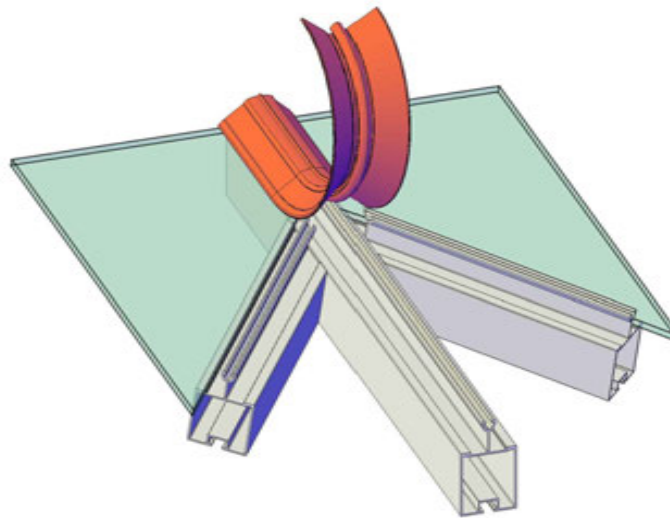
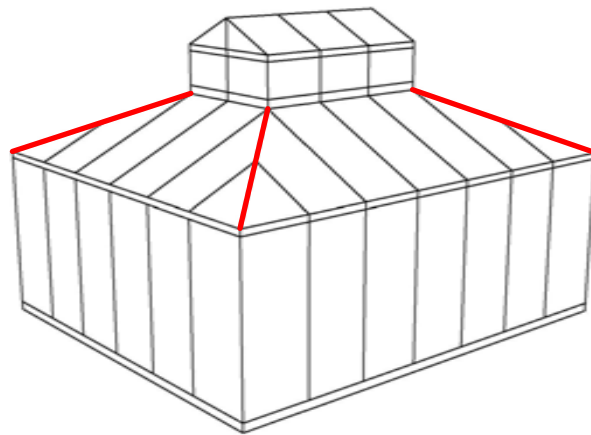


GDO

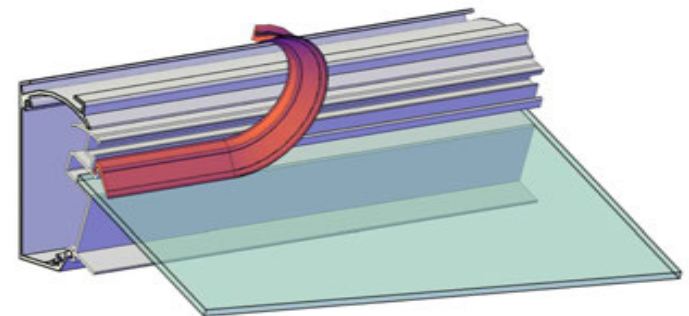
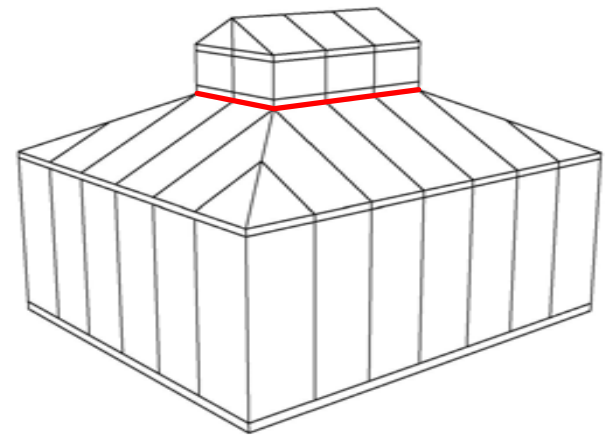




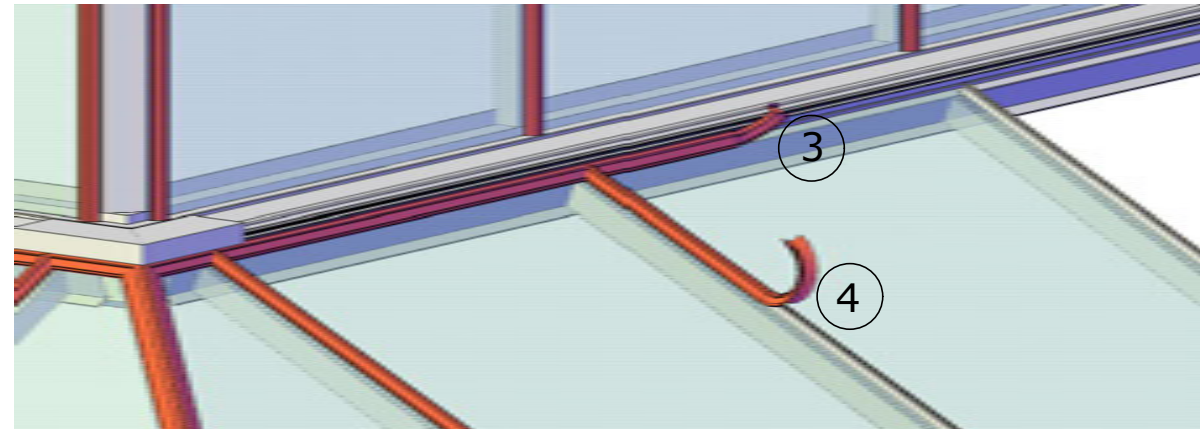
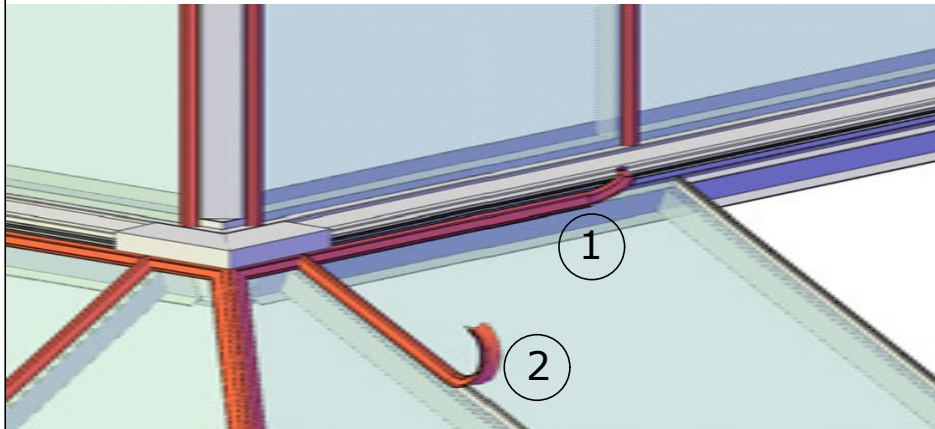
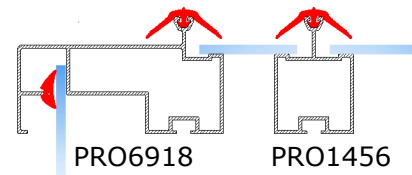
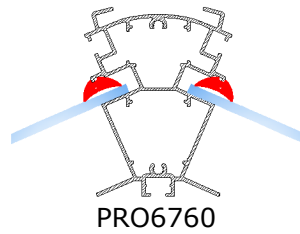
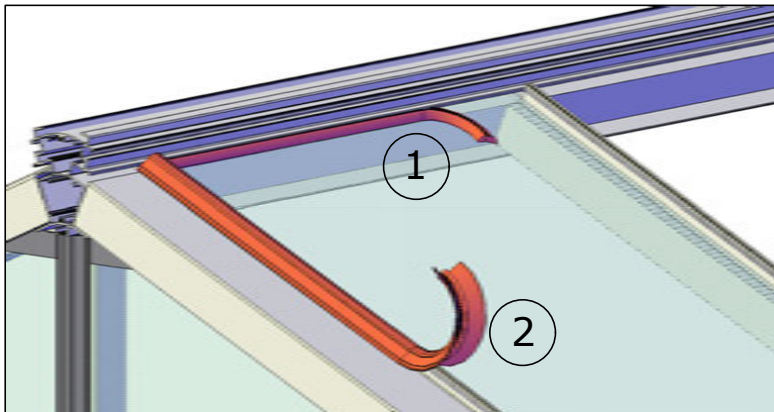
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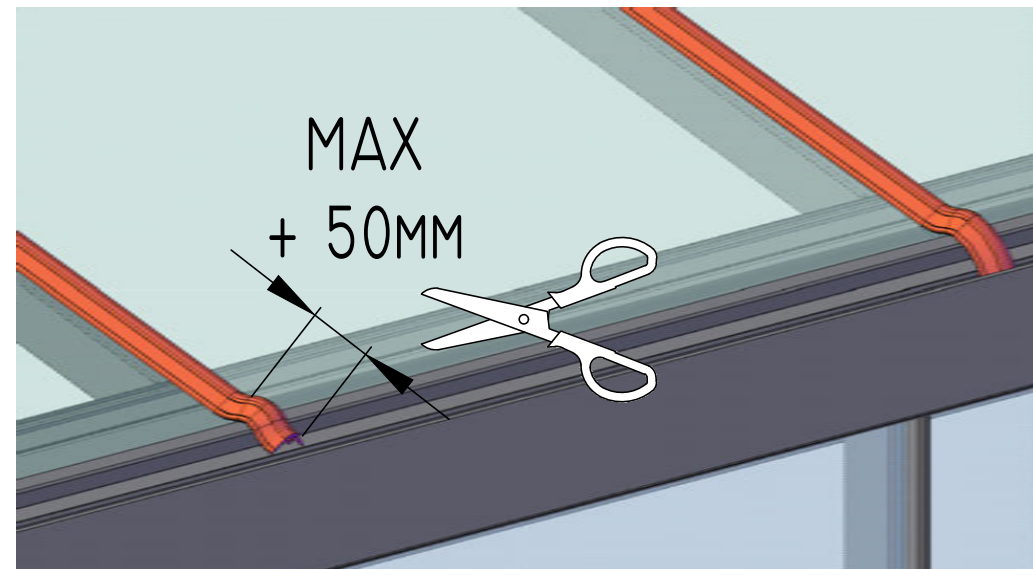
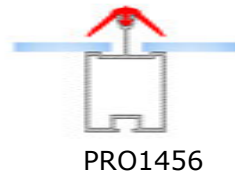
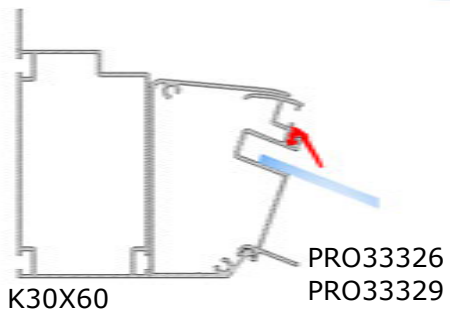
PRO 2290

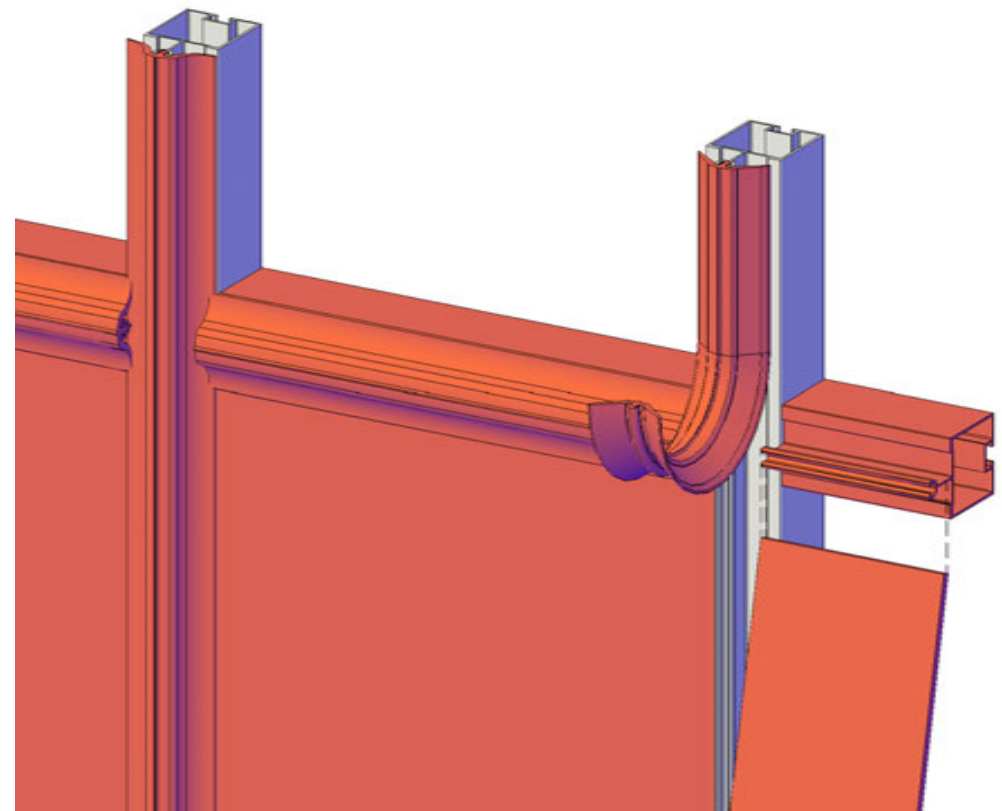
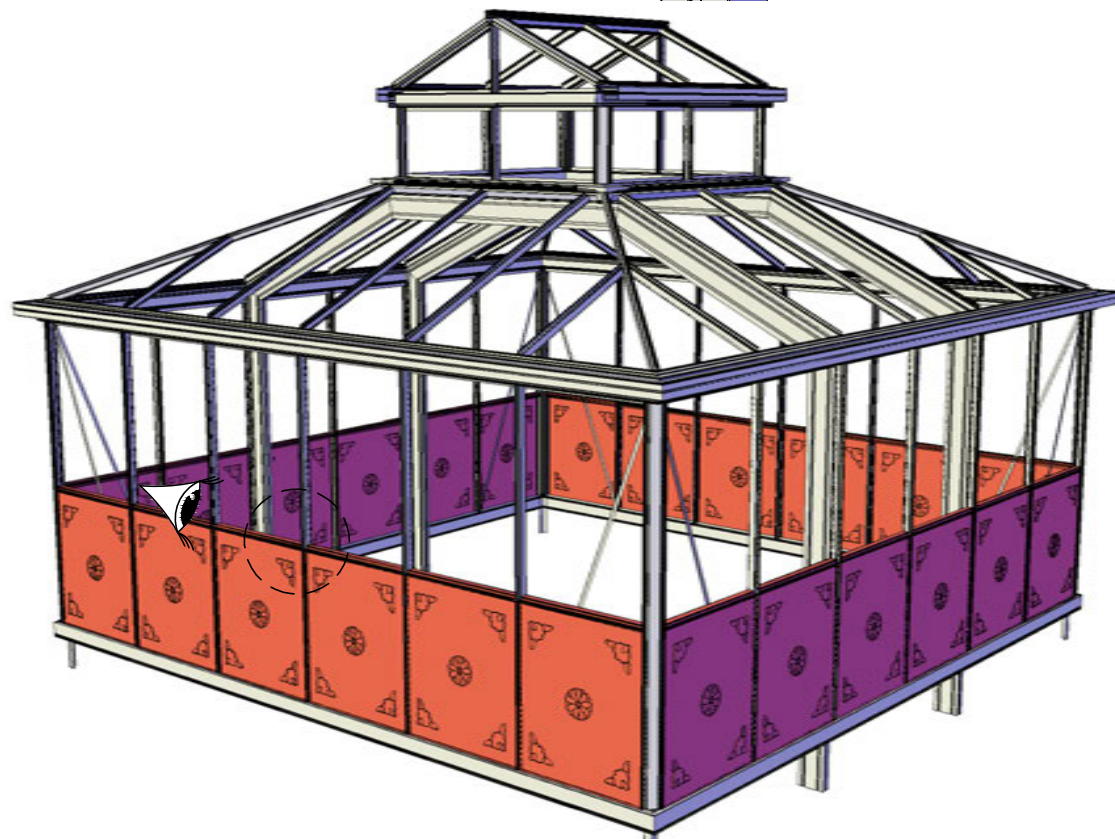
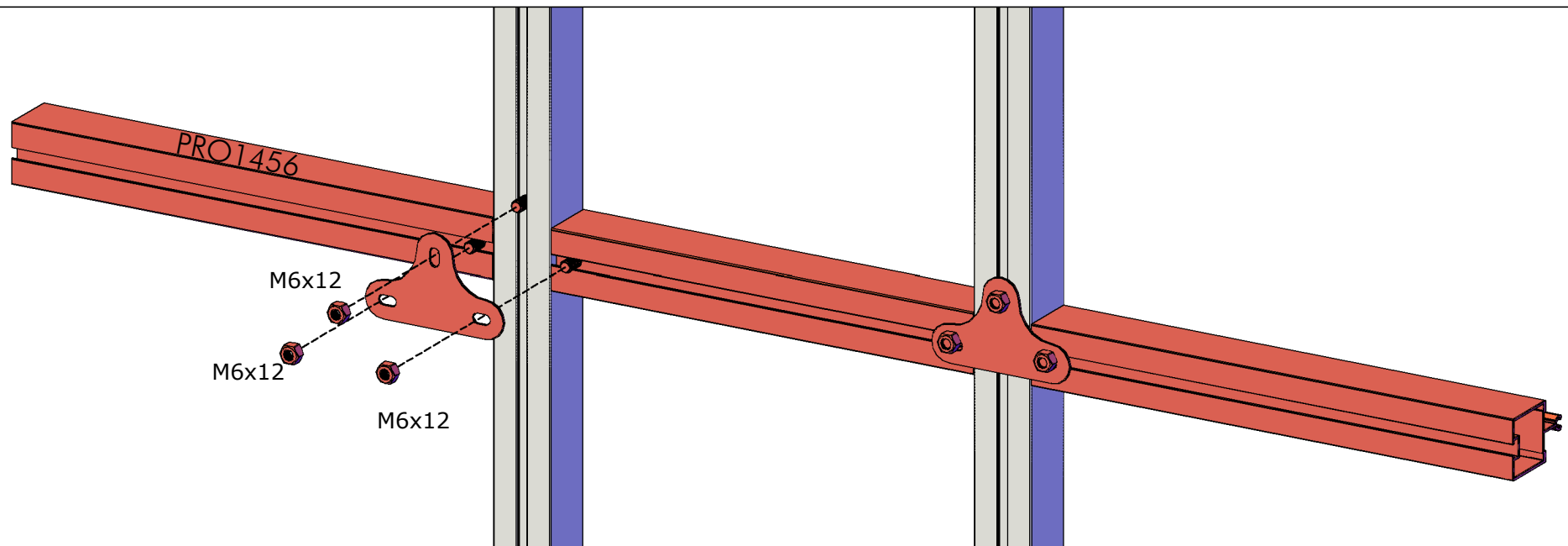


PRO 5538



PRO6120





ACCESSORIES

This section contains many of the optional accessories.

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

IMPORTANT: Find Janssens Accessory installation video on our site here:

<https://www.exaco.com/greenhouse-victorian.php>

It will be immensely helpful!

Doors for Your Greenhouse - Please read carefully

The standard Cathedral includes a single sliding door and a double hinged door - you may have chosen to upgrade/change your door options. Here are a few helpful notes about the sliding doors.

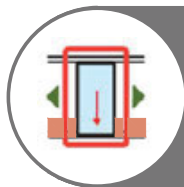
Sliding Door Low Threshold Kit - the manufacturer is transitioning from a low threshold kit with a four sided frame (KSD) to one with only the threshold piece (SDL). You should see one of these letter combinations on your packages to indicate which version you have.

Sliding Doors - the manufacturer is transitioning to a similar style sliding door with a few new features such as an additional insert for the top of the doorway, different bottom door guides, and a special latch plate for the door lock. You will be able to identify which kit you have by whether or not you have an extrusion PRO39796 for the bottom door guide.

If you have PRO39796 in your kit, please follow the assembly instructions on pages marked "Version 1".

If you do not have the PRO39796, look for the assembly pages labeled "Version 2". In the past, double doors were created by placing two single doors together. Beginning sometime in 2024, double doors will be packaged as such and have additional connector parts (Version 2). Under the new system, you may choose to place the double door as two single doors - but you will need to cut some pieces to do this. It is approachable and not difficult, but it will be important to have a way to cut through the metal.

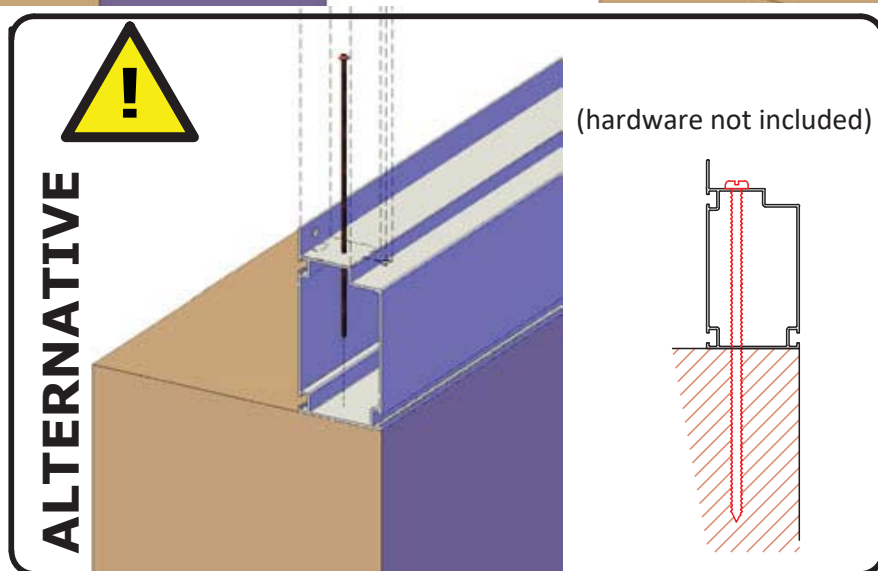
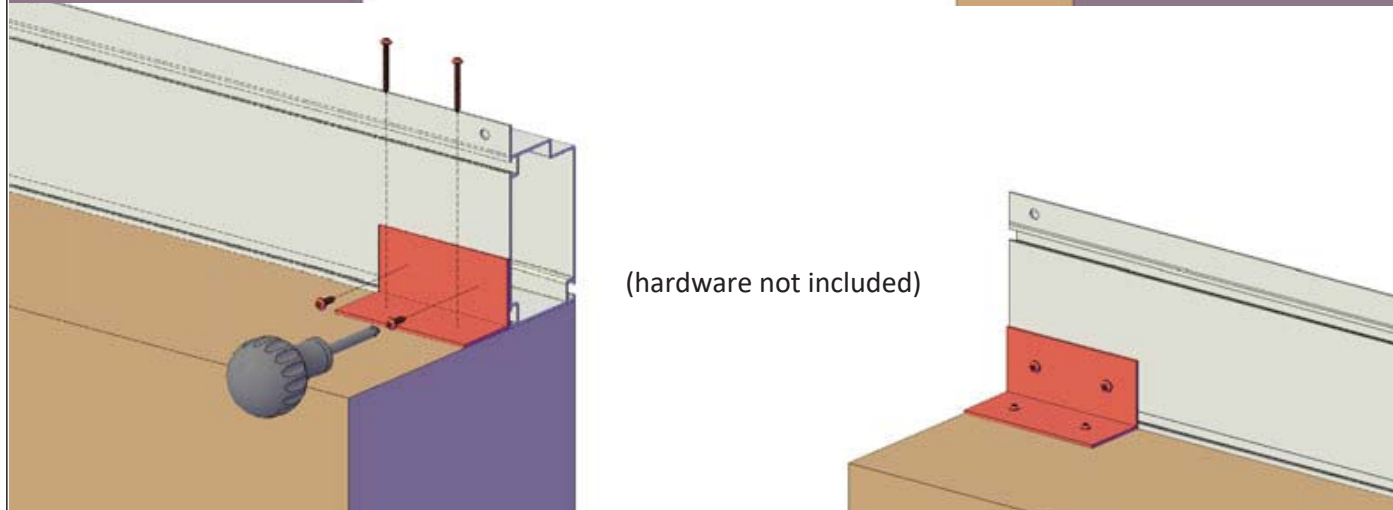
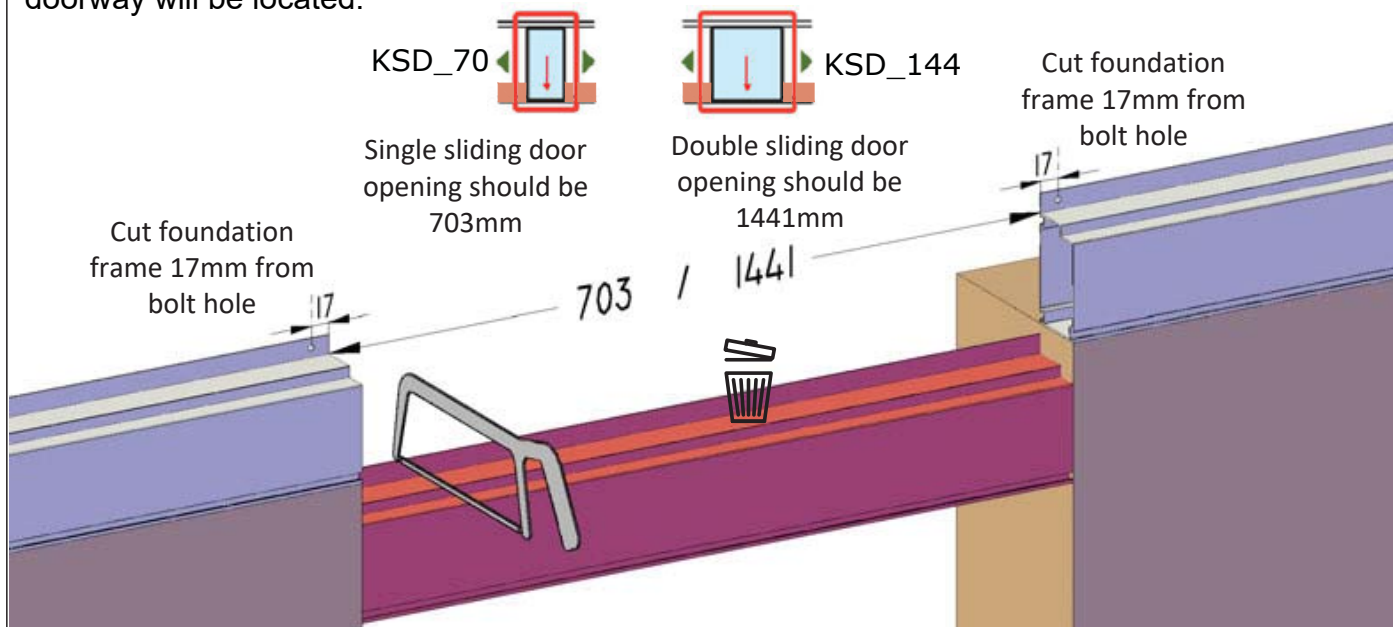
Hinged Doors - please make use of our playlist of Victorian YouTube videos - they are EXTREMELY helpful for sections of the hinged door assembly.

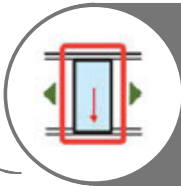


OPTION: Greenhouse
on a stem/knee wall

SD_MUR

If your greenhouse is on a knee wall, you will need to cut the base frame (PRO6120) where the doorway will be located.

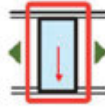




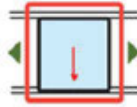
OPTIONAL UPGRADE: Low Threshold for Sliding Door/s

KSD

KSD_70



Single sliding door opening
should be 703mm



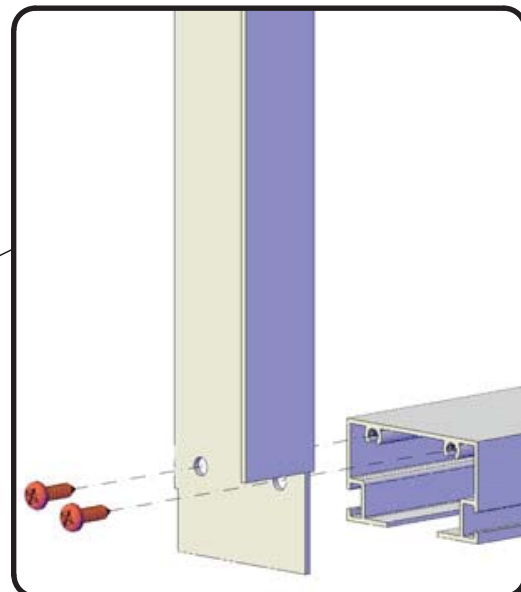
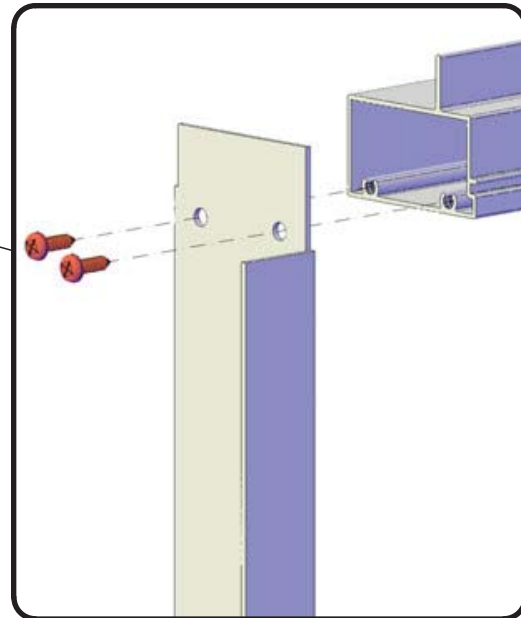
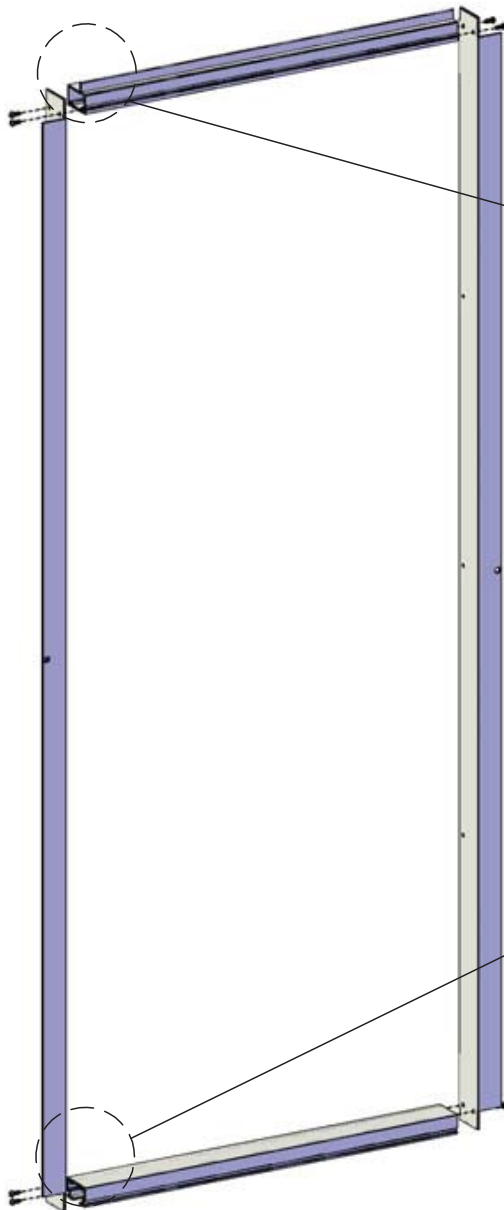
KSD_144

Double sliding door opening
should be 1441mm

Cut foundation
frame 17mm from
bolt hole

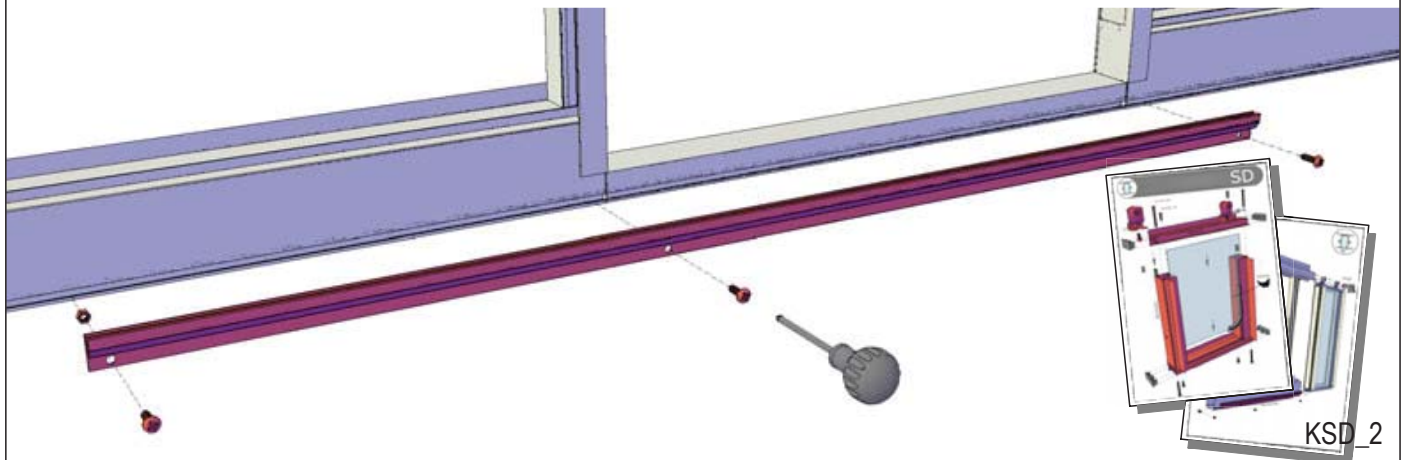
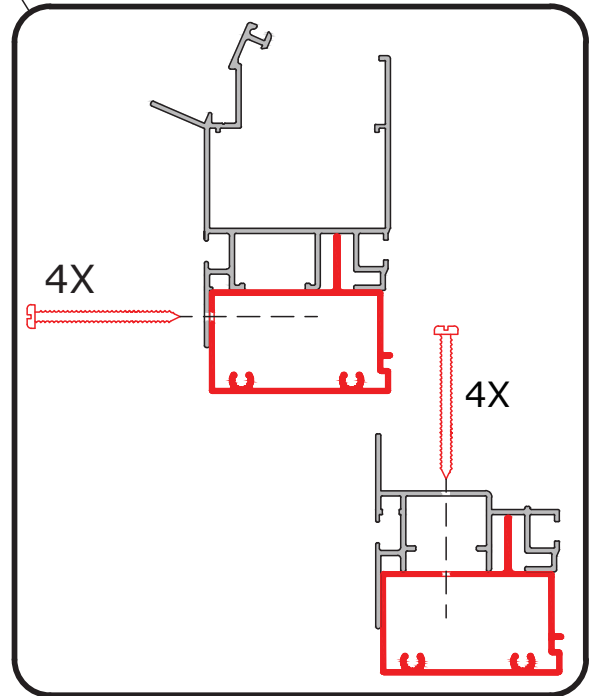
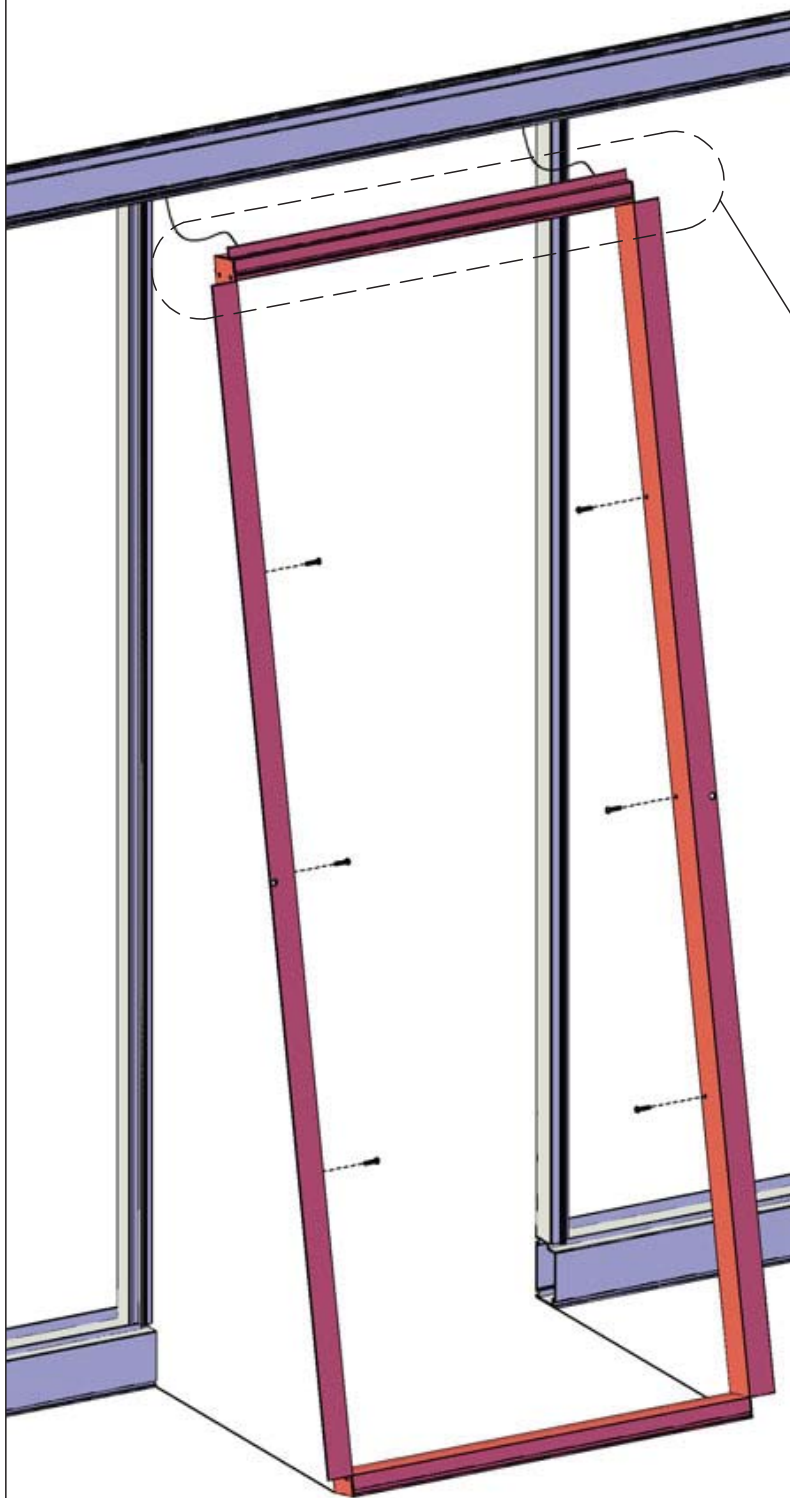
Cut foundation
frame 17mm from
bolt hole

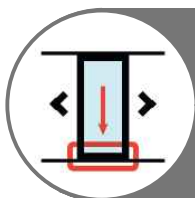
703 / 1441



KSD_1

OPTIONAL UPGRADE: Low Threshold for Sliding Door/s





OPTIONAL UPGRADE: late 2024 low threshold kit

SDL

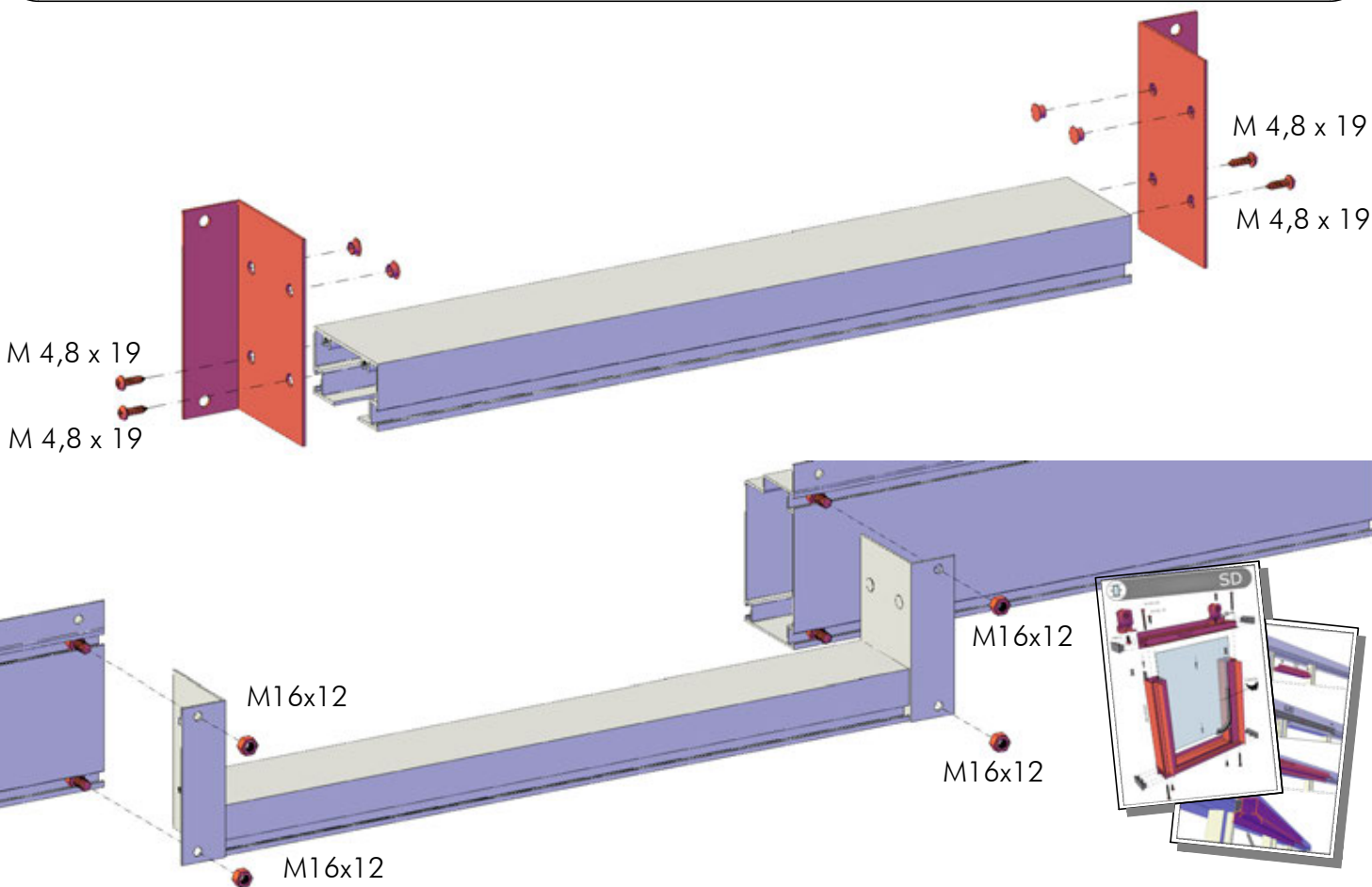
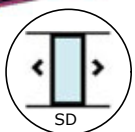
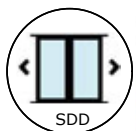
Cut foundation
frame 17mm from
bolt hole

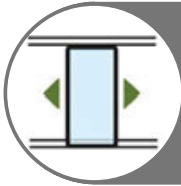
Single door
opening will be
703mm or 27.67'

Double door
opening will be
1441mm or 56 3/4'

Cut foundation
frame 17mm from
bolt hole - it may
help to have a
PRO1456 attached
for a clear cutting
line

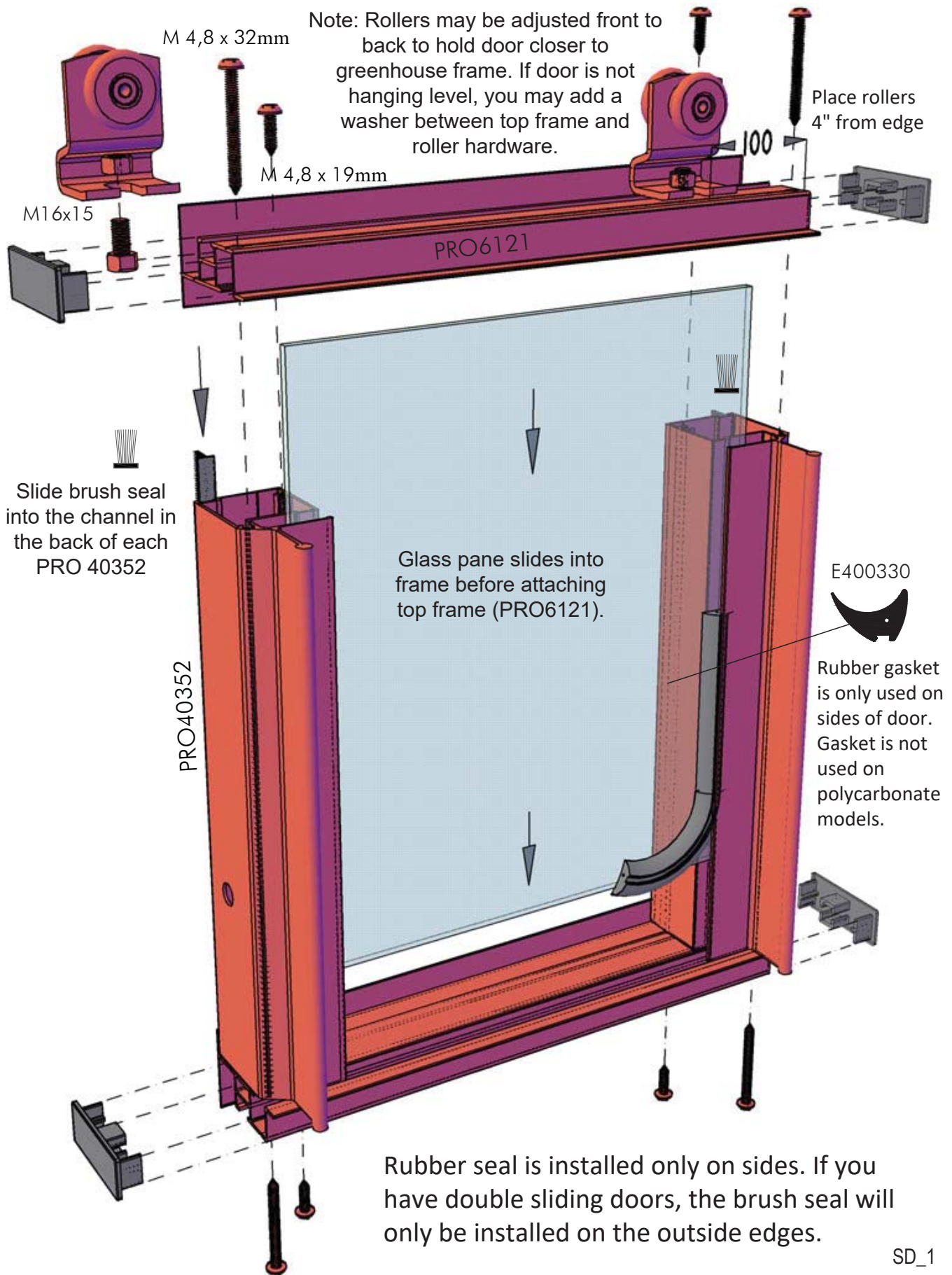
If you have a double door opening, you may use as is. For a single door, you will need to cut your threshold piece to 698mm or 27.5"





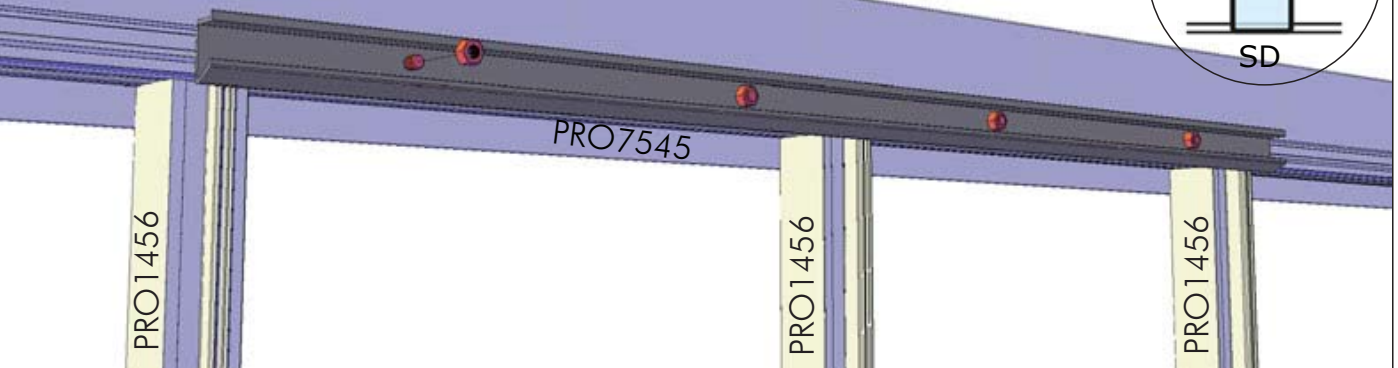
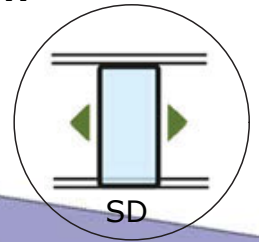
Sliding Door - Basic assembly of any sliding door.
VI36 and VI46 have double doors, some VI34 models
may include double doors. More doors may be added.

SD

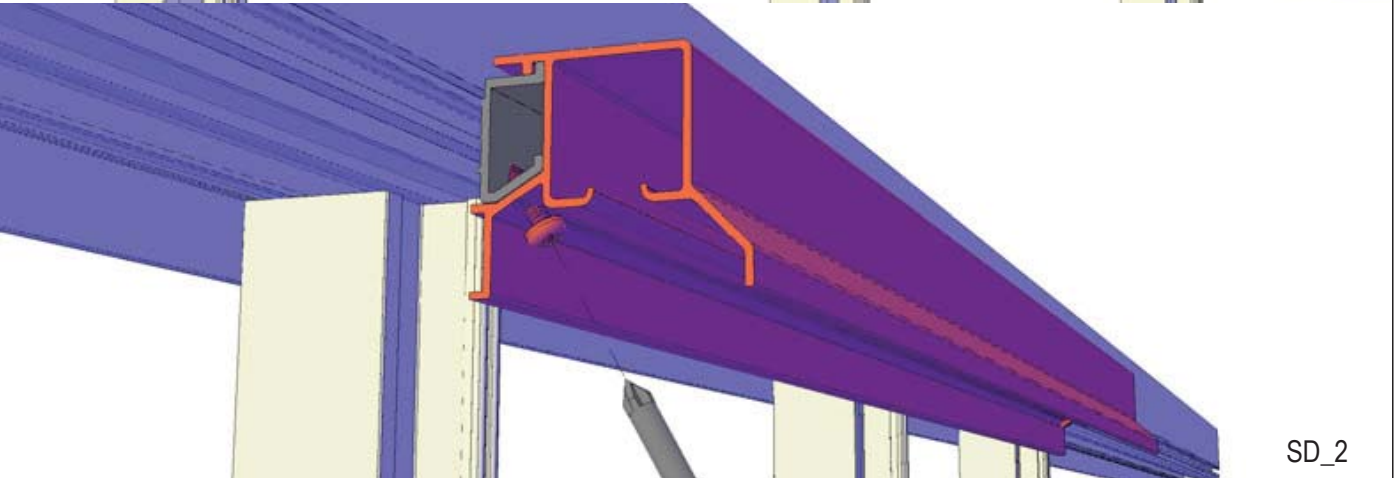
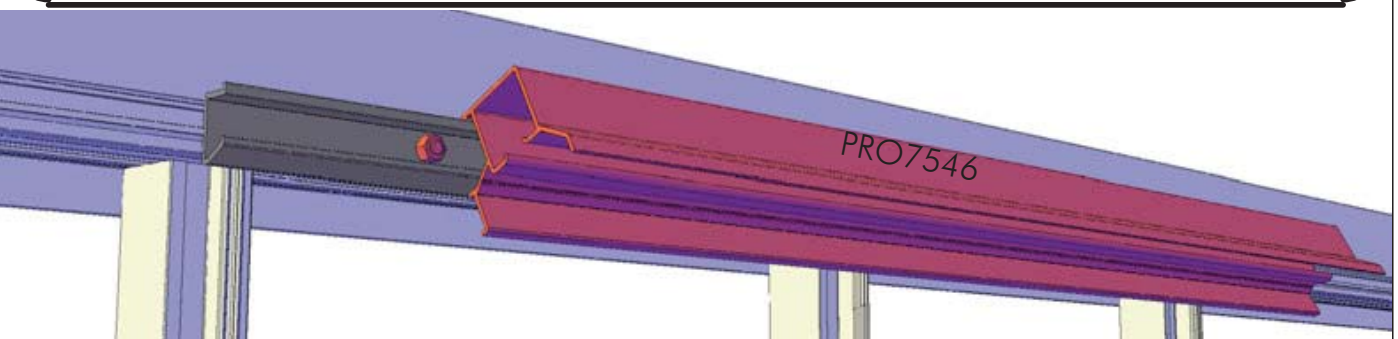
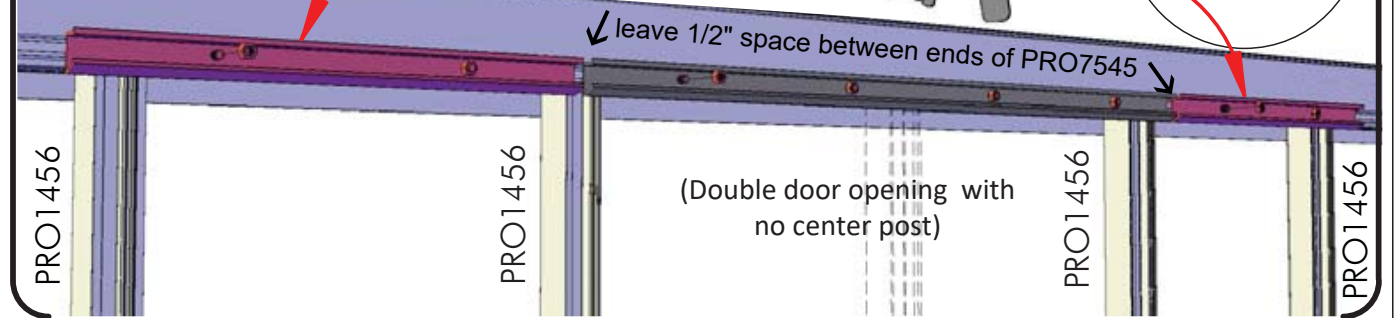
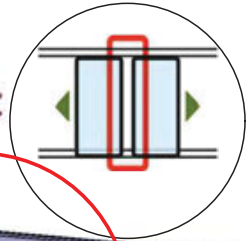
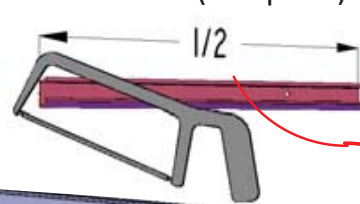


Version 1: Single and/or Double Door Hanger installation

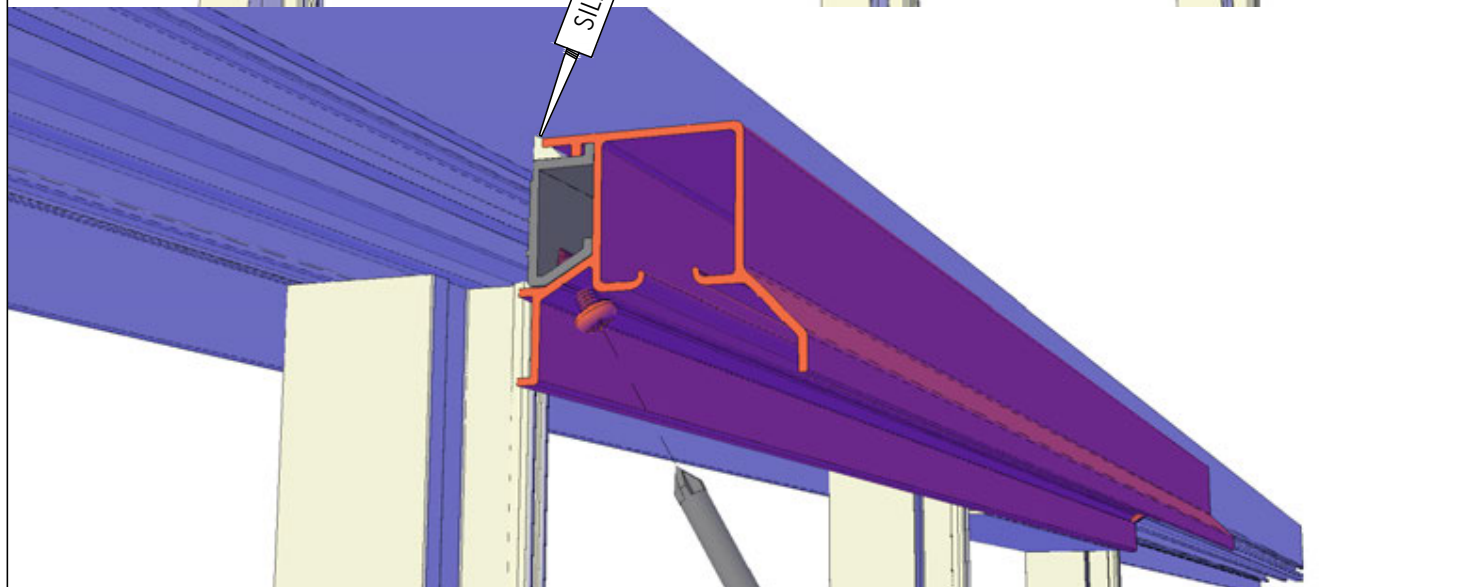
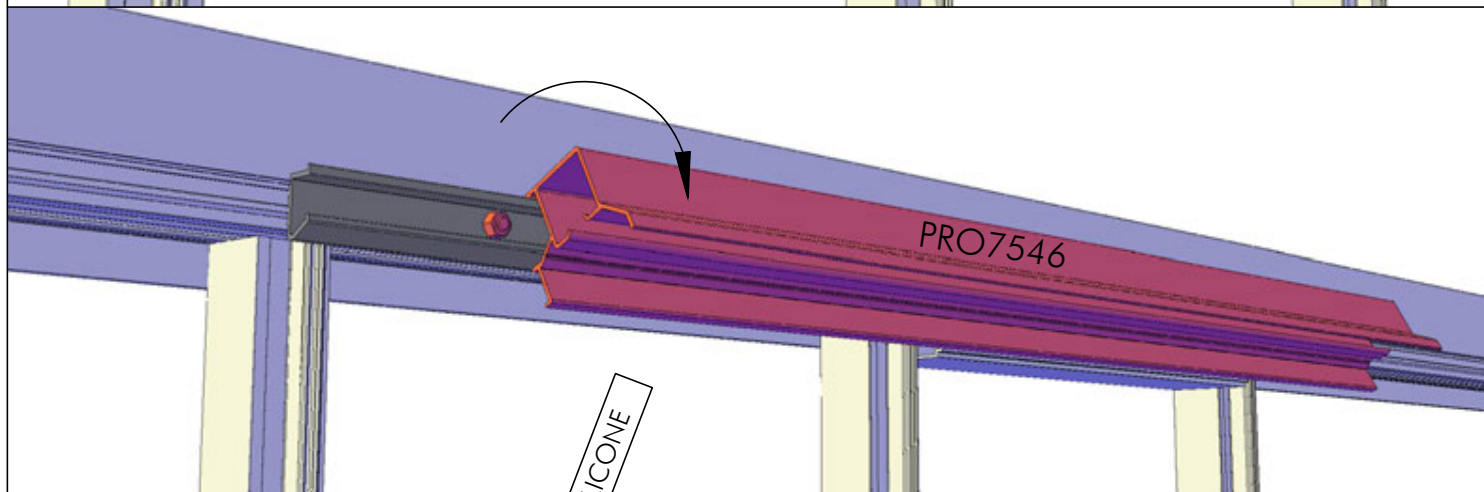
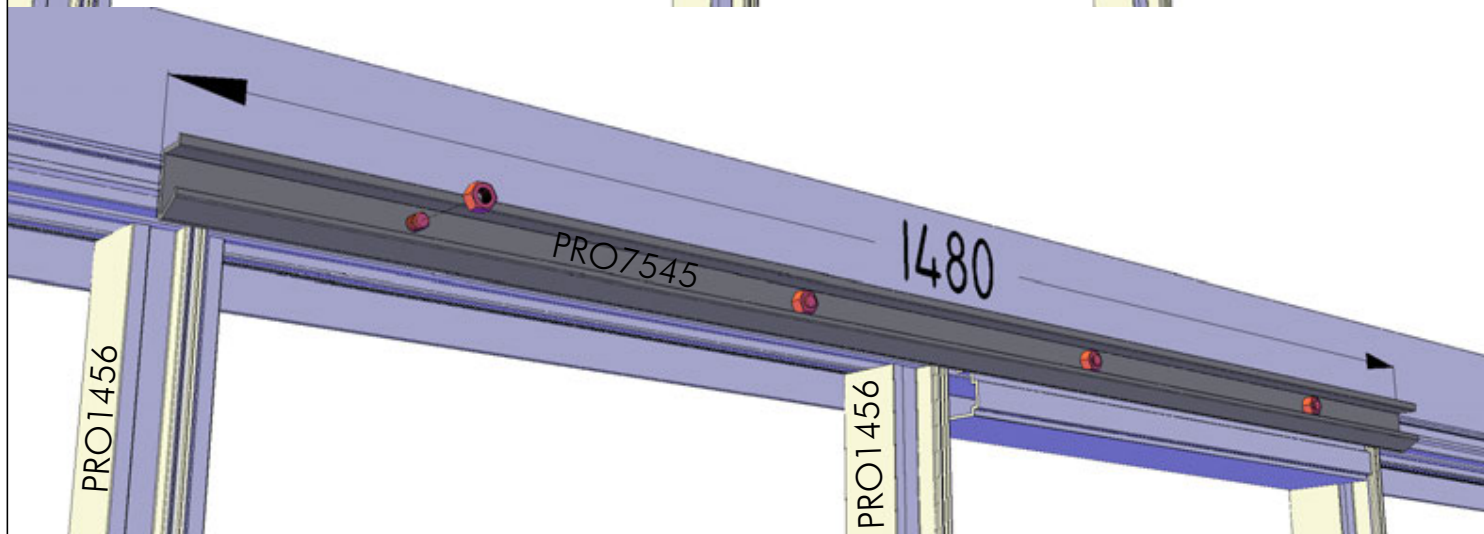
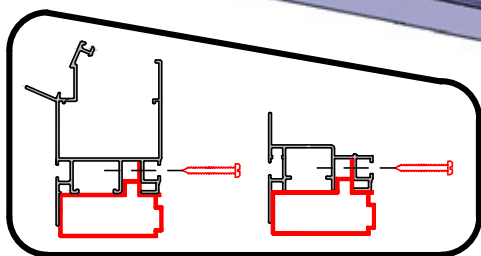
Sliding door/s may be attached in any bay (with exceptions to corners)



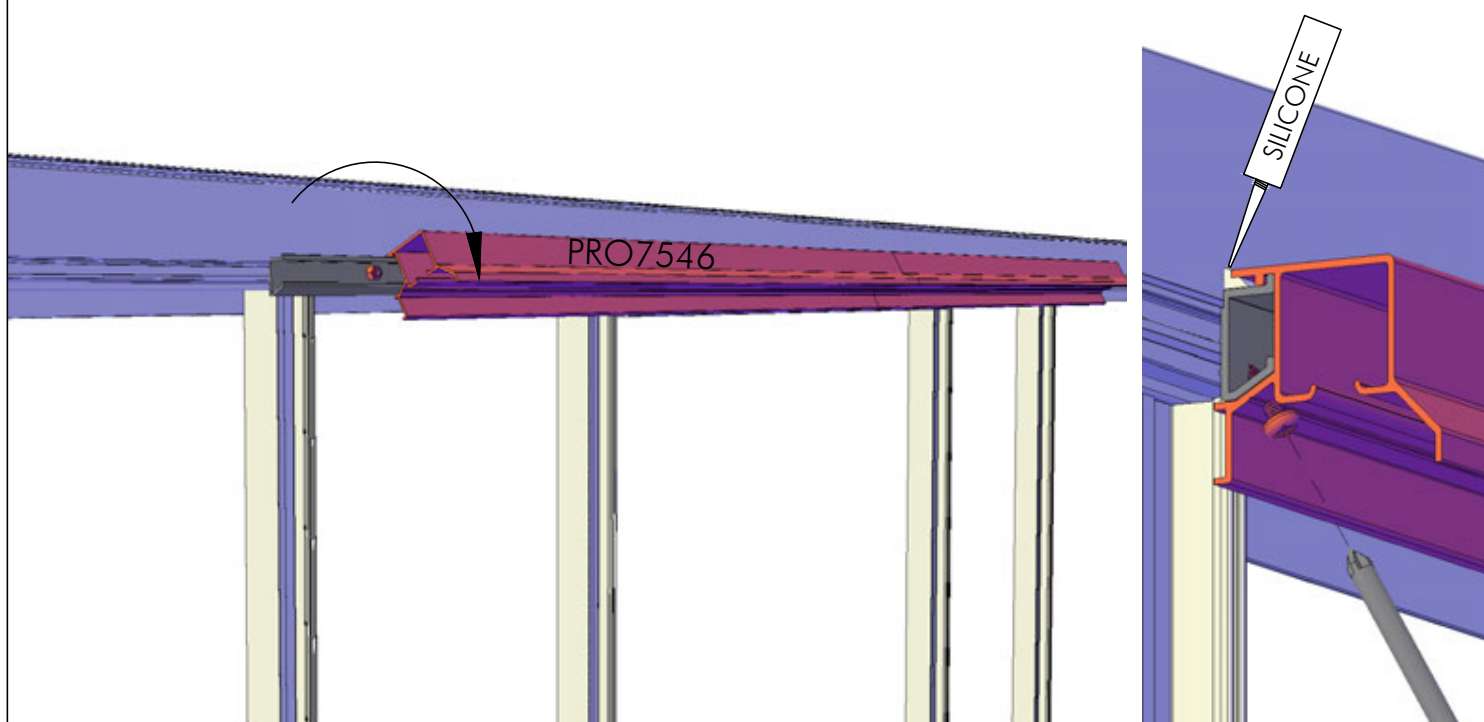
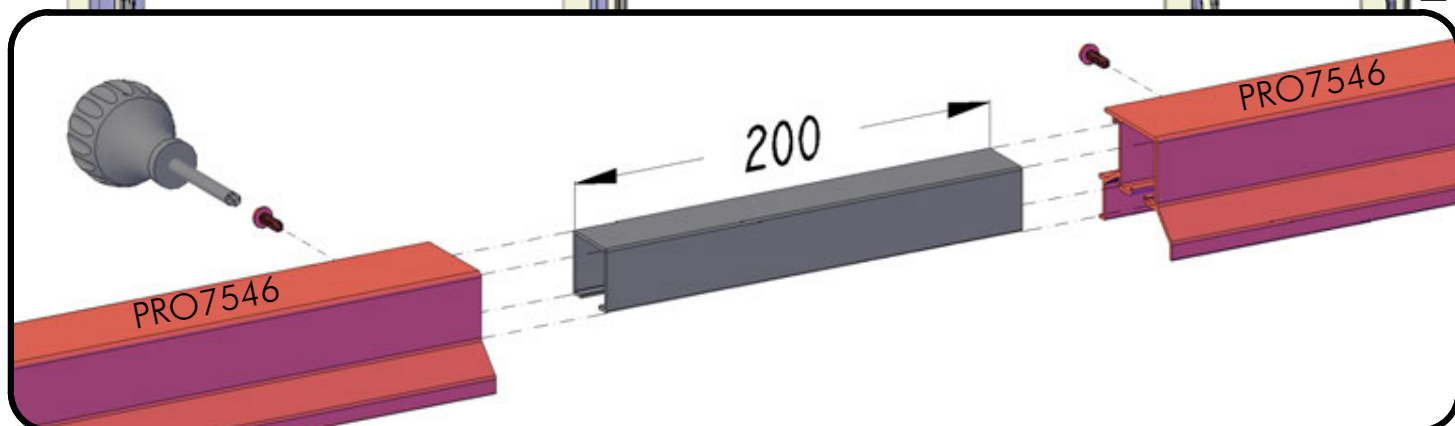
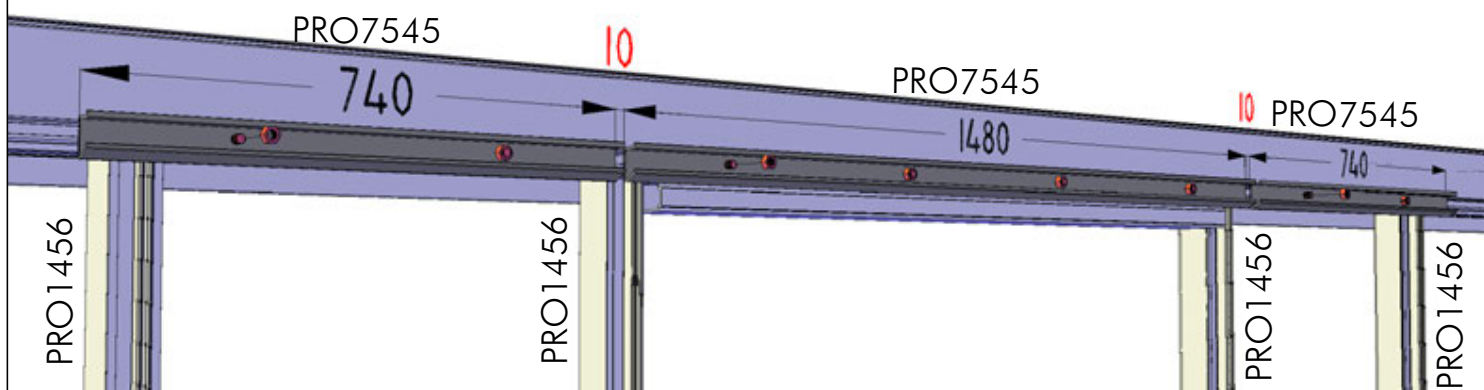
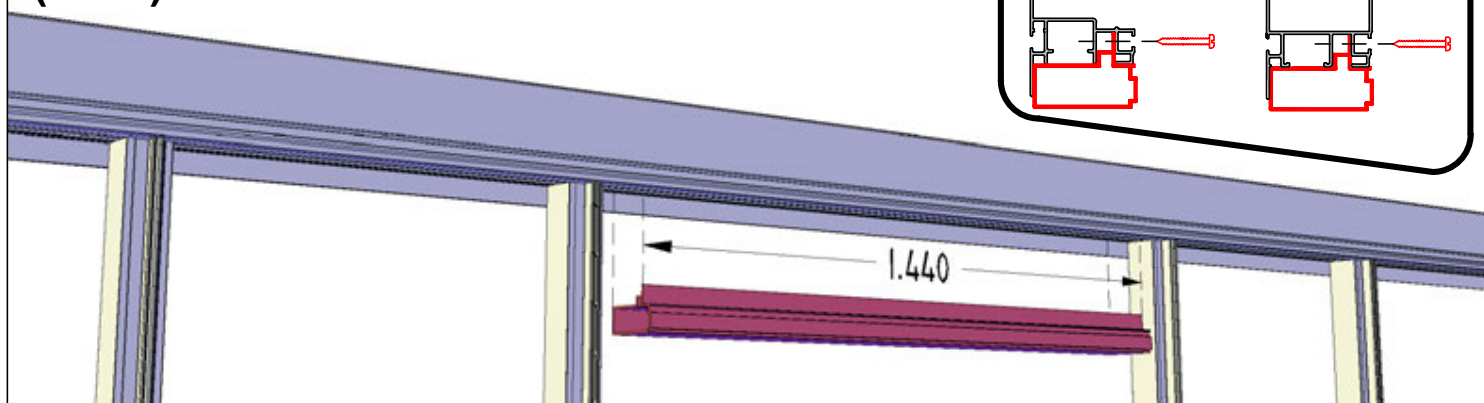
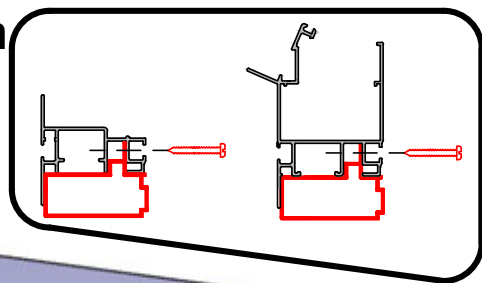
IMPORTANT for Double Sliding Door Opening!! Cut one PRO7545 in half. Place long PRO7545 in center (to support double opening) and the half PRO7545 on either side. Do not cut PRO7545 if you have a stem wall (See p. 19).



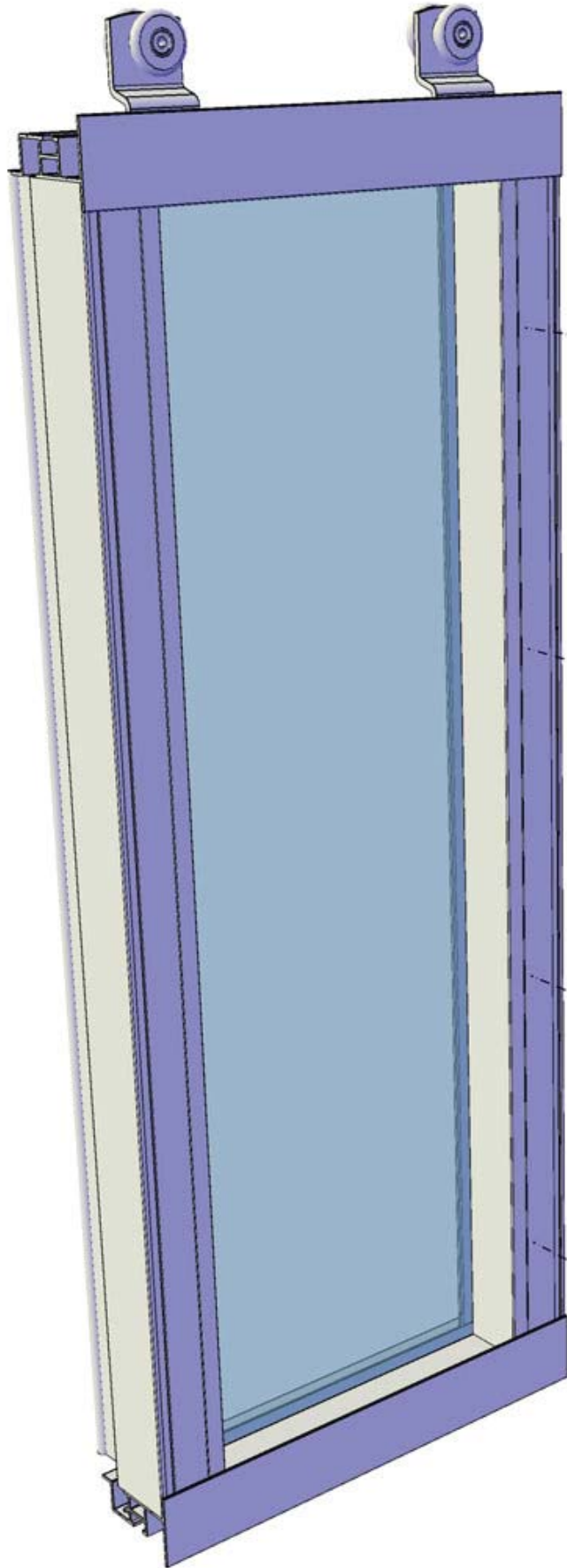
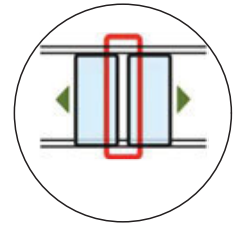
Version 2: Single Door Hanger installation (SD)



Version 2: Double Door Hanger installation (SDD)

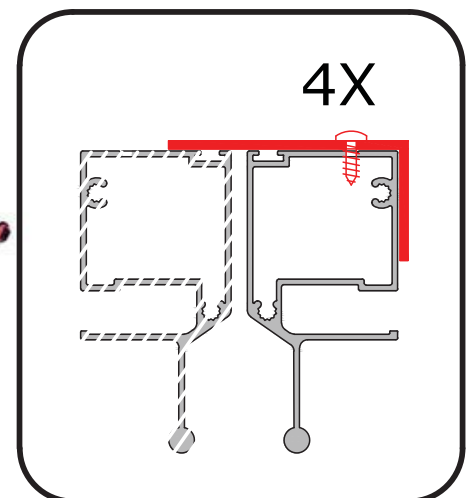


OPTION: Double Sliding Door (Applies to Version 1 and 2)



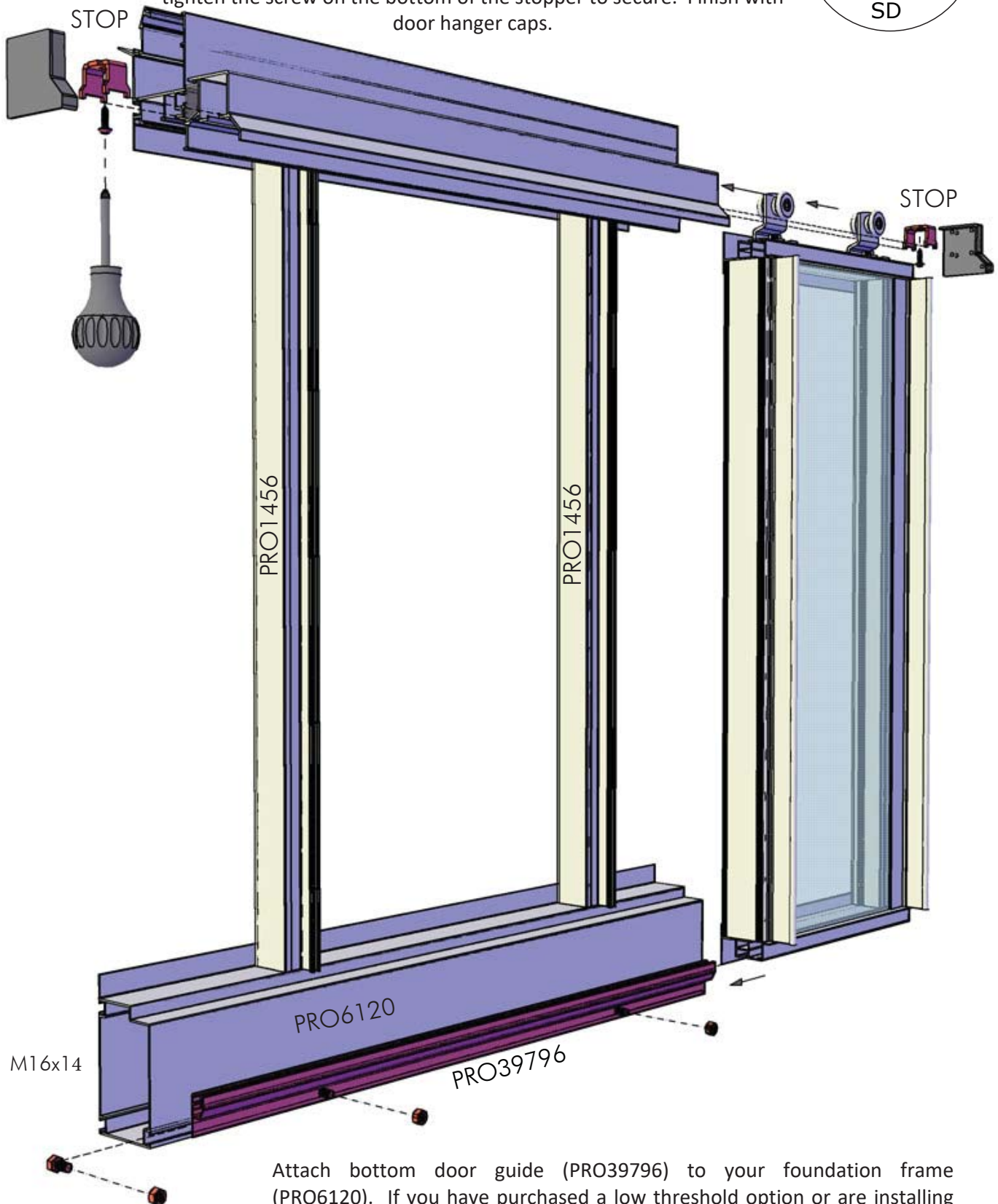
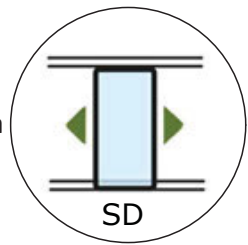
As needed, use washer underneath door hanger to level the door/s .

If you have a double sliding door, you will have a long L bracket that will attach to close any gap between the two doors.



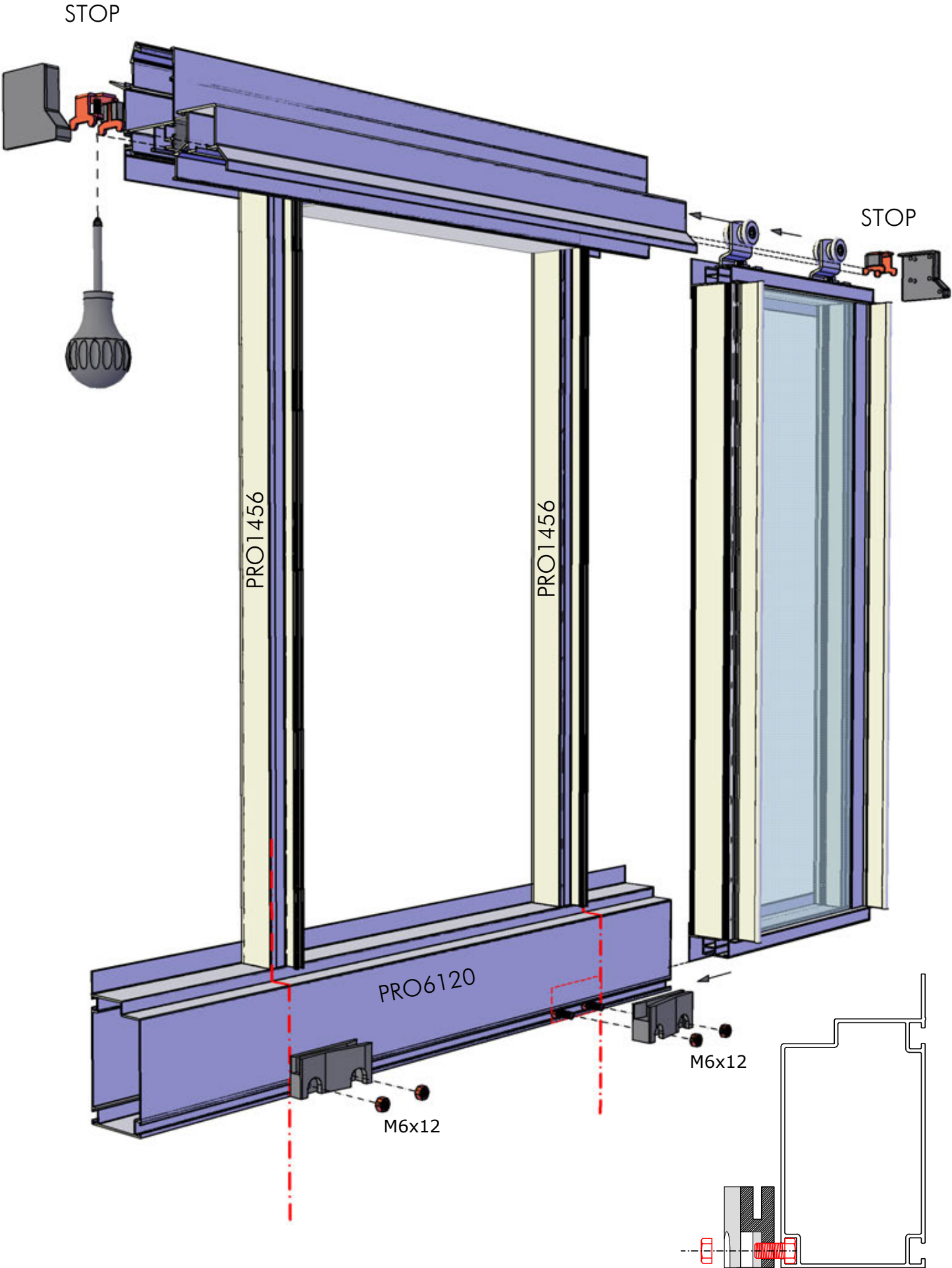
Version 1: Door installation

Slide door rollers into top door hanger (PRO7546 or PRO7876) and slide a stopper on either side. Determine how far the door should slide, then tighten the screw on the bottom of the stopper to secure. Finish with door hanger caps.

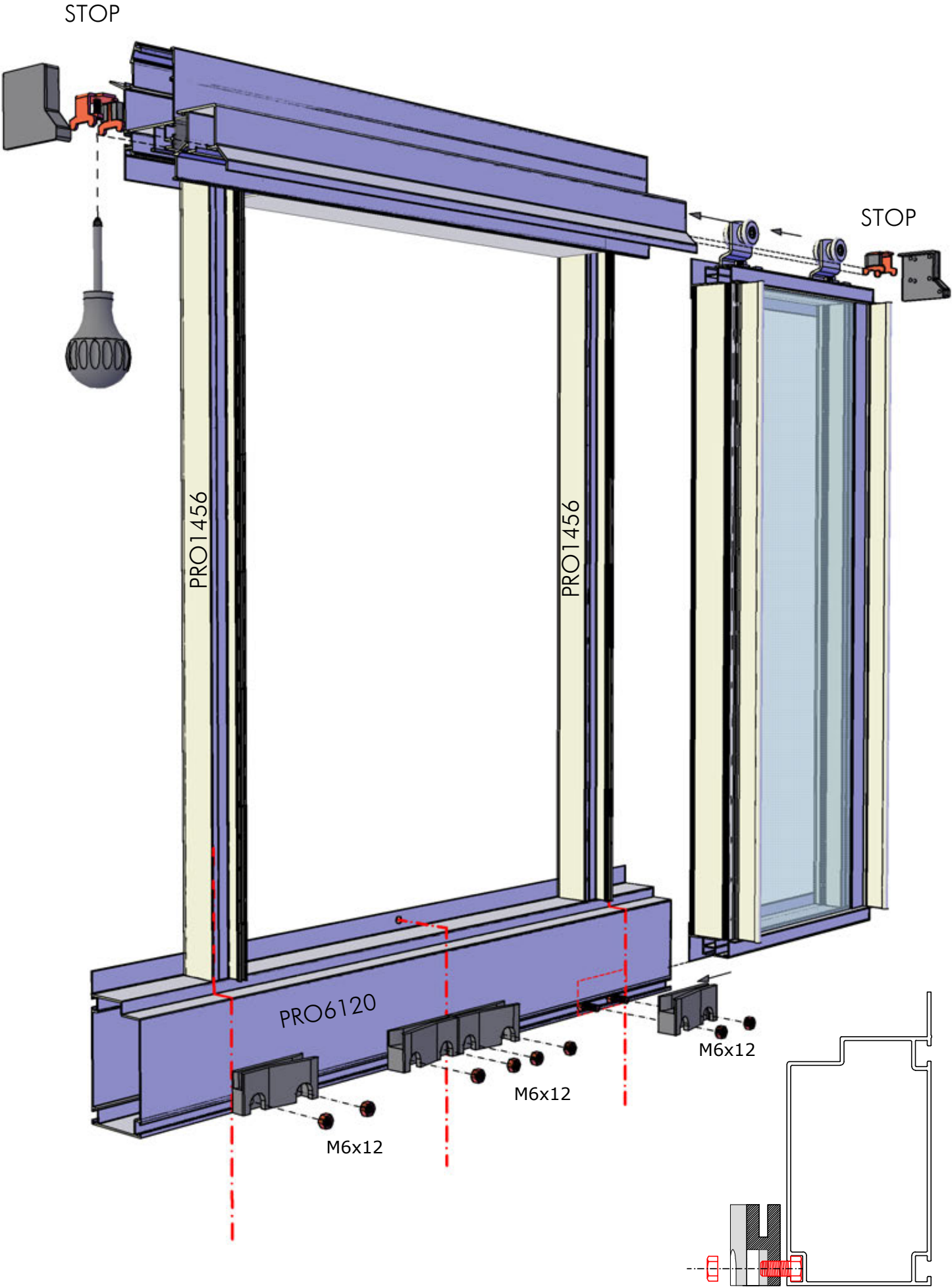


Attach bottom door guide (PRO39796) to your foundation frame (PRO6120). If you have purchased a low threshold option or are installing your greenhouse on a wall, please refer to the following pages marked SD_MUR for stem wall and KSD for low threshold kit before installing door, bottom door guide, and locks.

Version 2: Single Door installation



Version 2: Double Door installation (SDD)



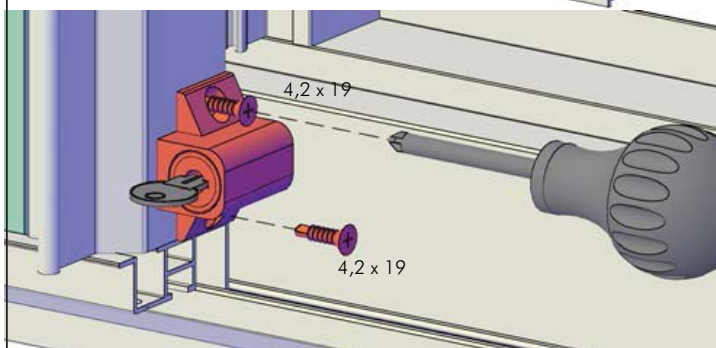
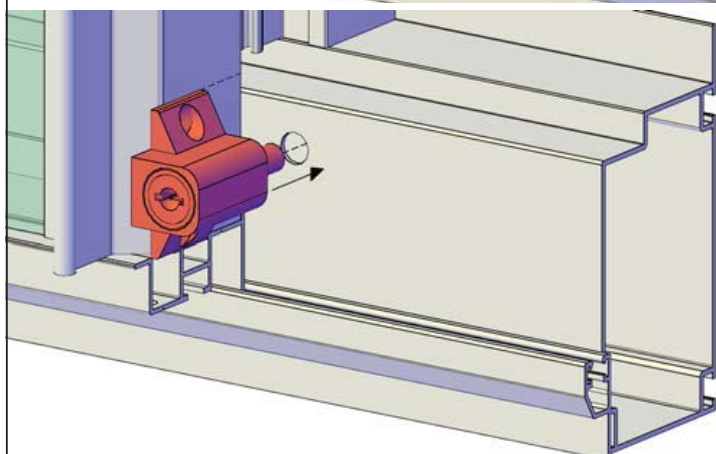
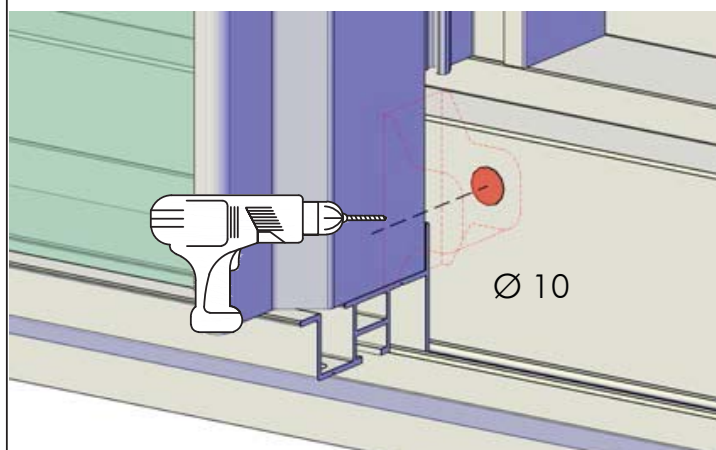
Version 1: Sliding Door Lock Installation w/o Low Threshold



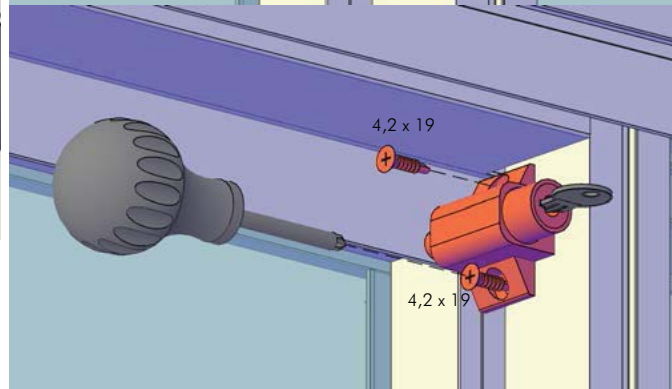
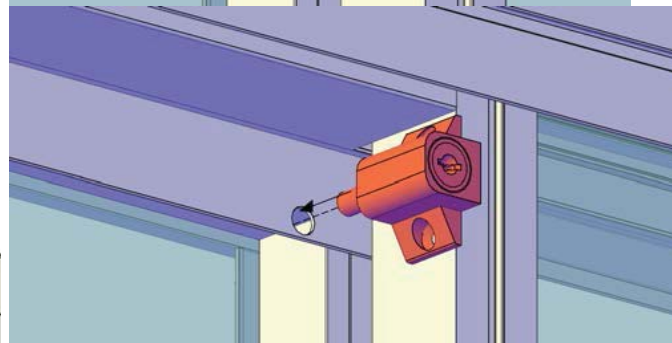
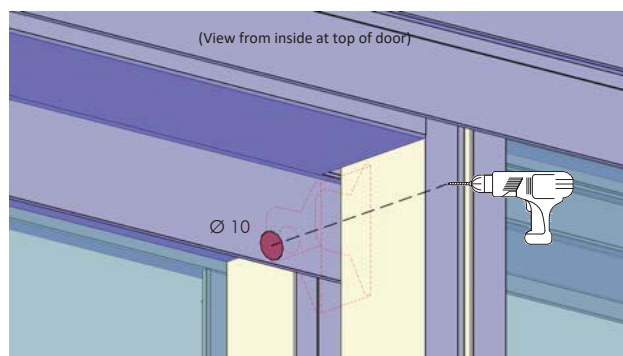
Install lock at bottom of a:

- single sliding door
- first door of double sliding doors
- both of your double sliding doors

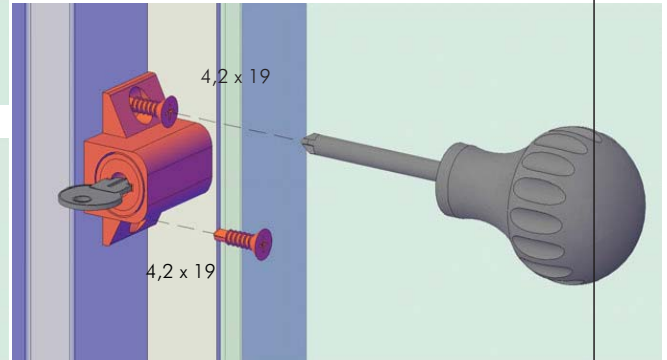
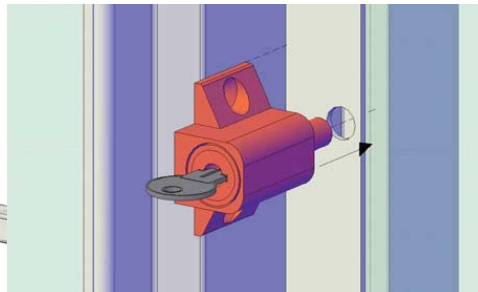
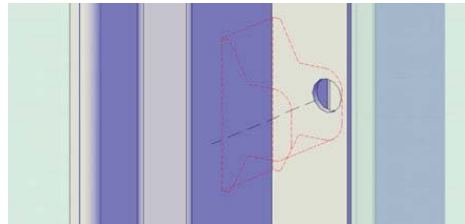
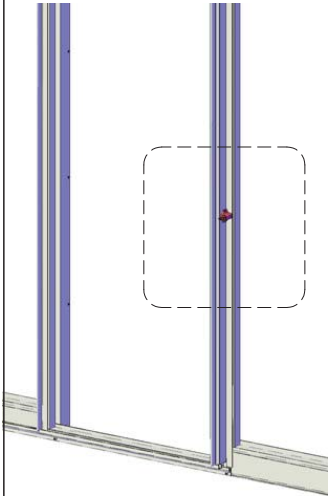
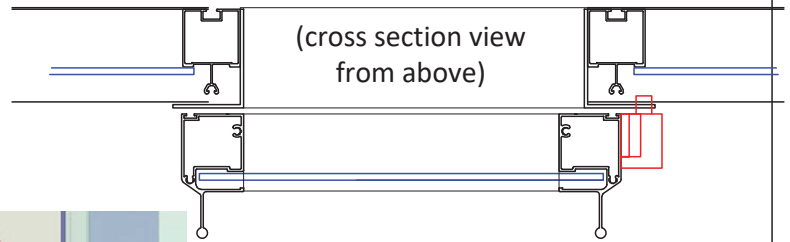
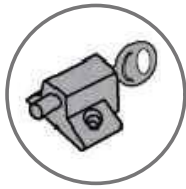
(View from outside at bottom of door)



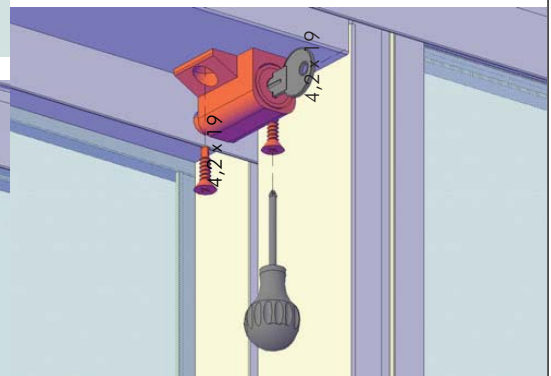
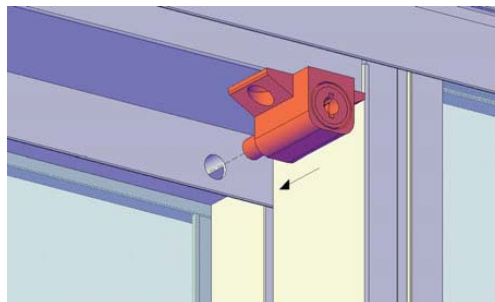
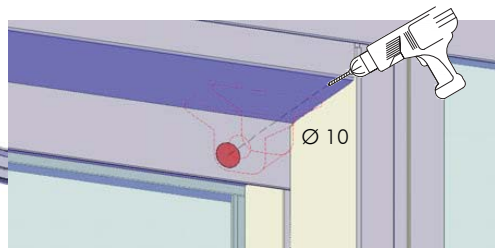
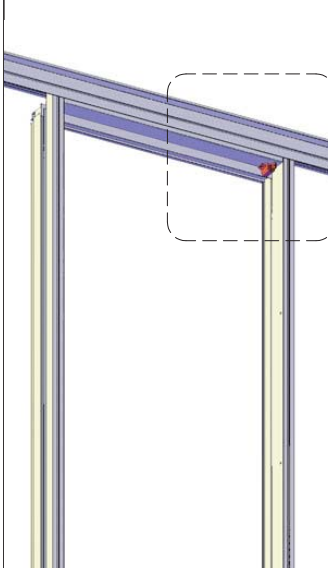
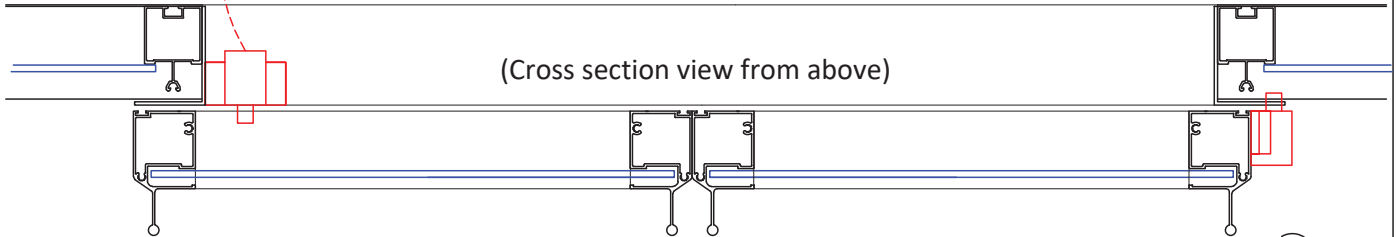
If you have a double sliding door, you may install one lock on the inside of your greenhouse as shown



Optional Upgrade: Lock install with KSD - 4 Frame Low Threshold Kit (Single/First door)

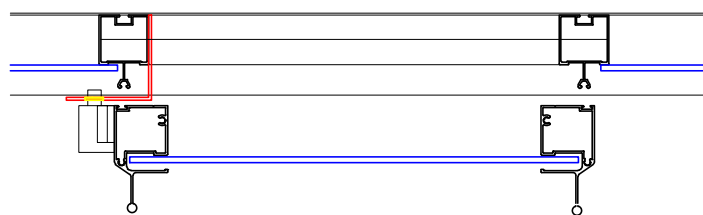
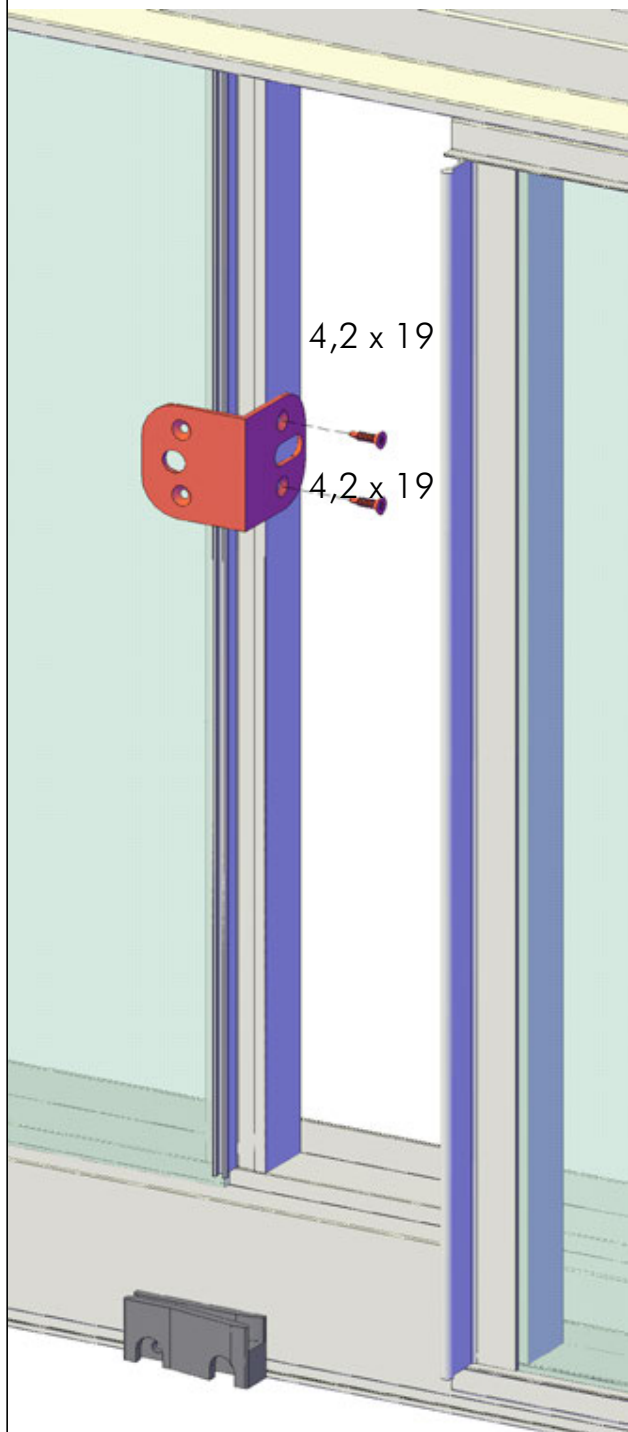
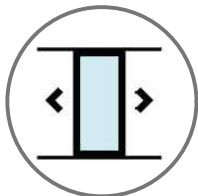


Lock installation on Double/Second Door Using Low Threshold Kit

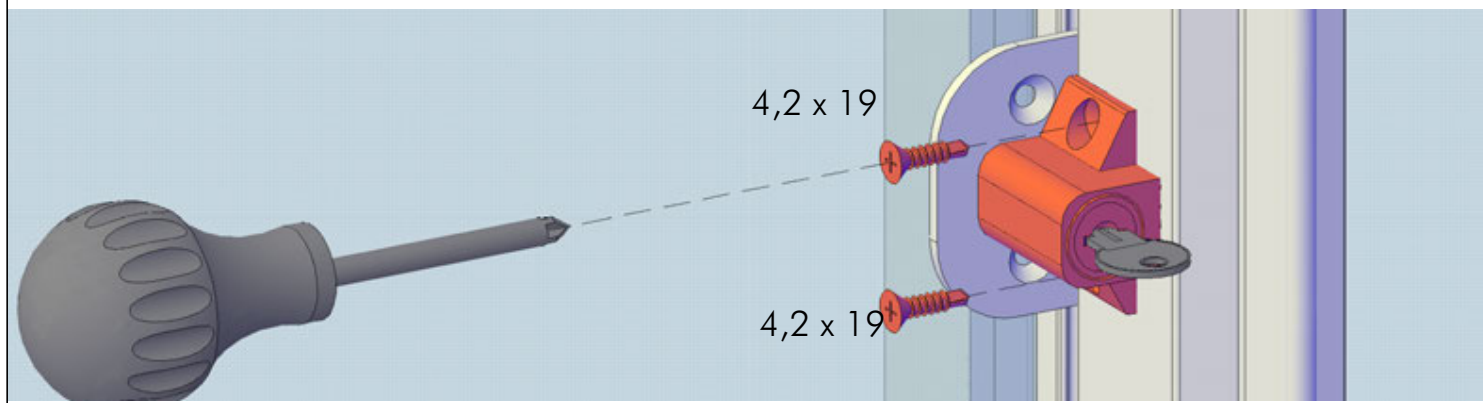
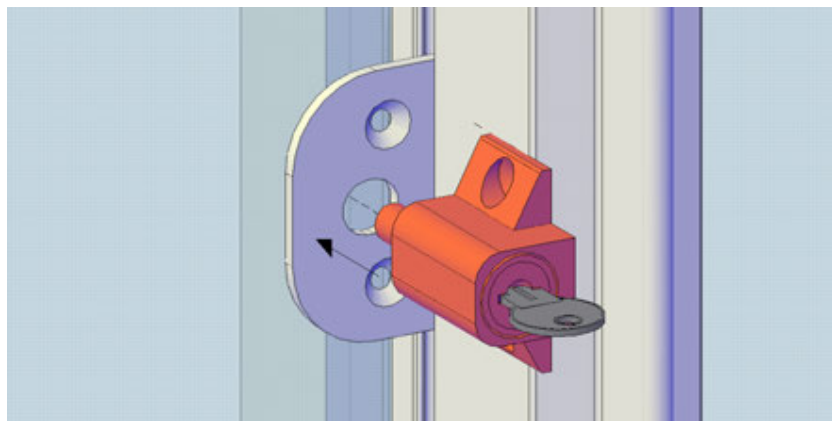
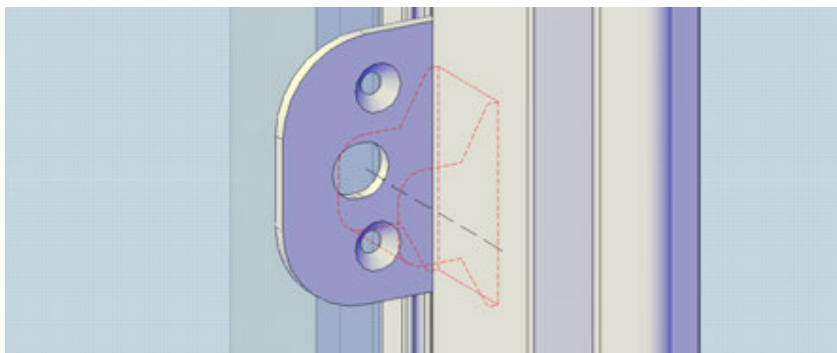
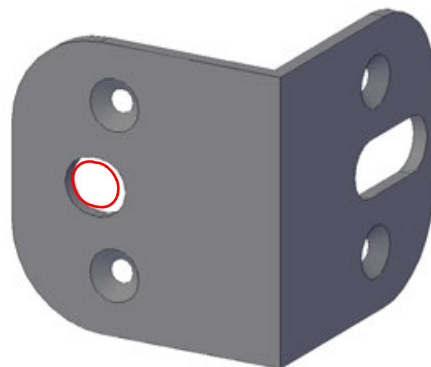


Note: Second lock is installed on the interior!

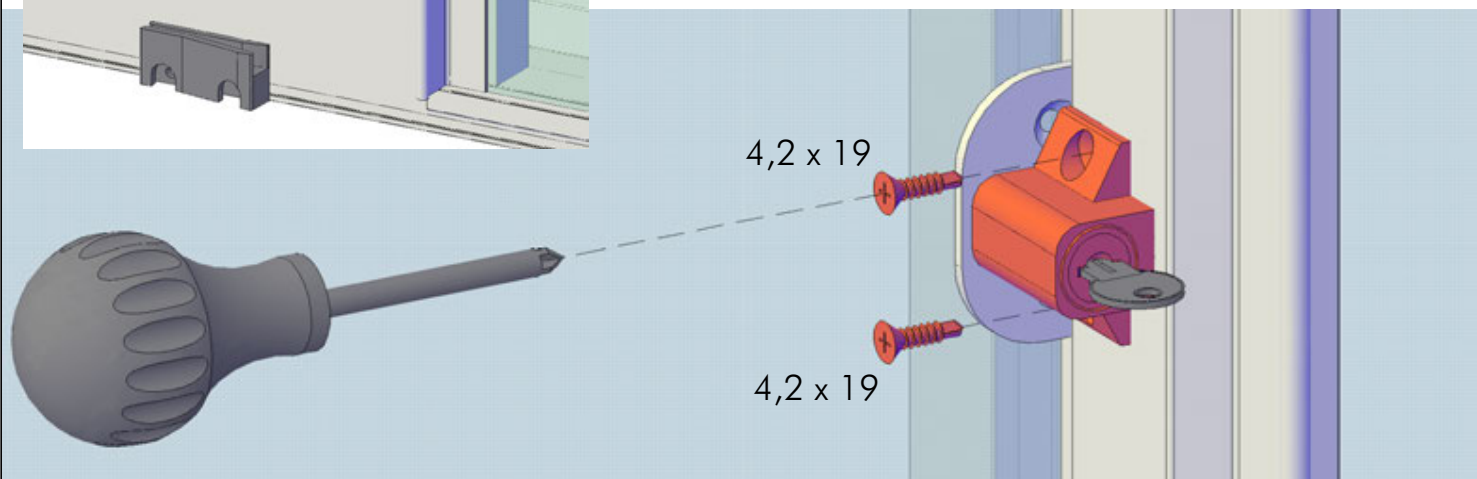
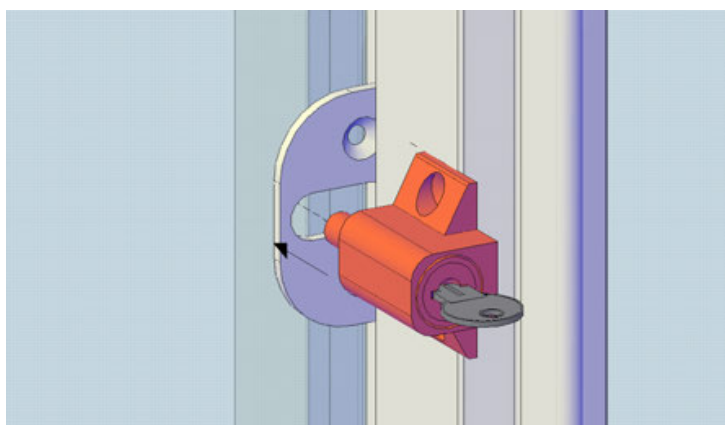
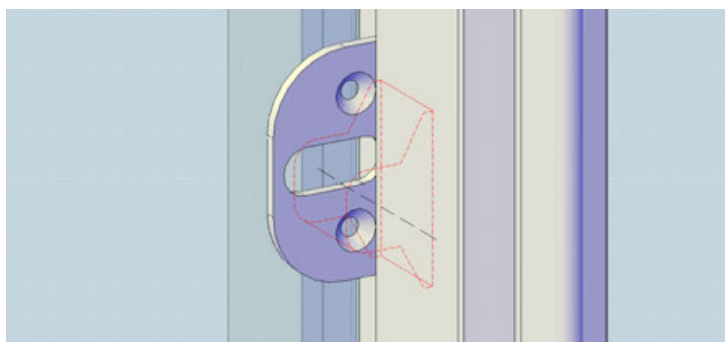
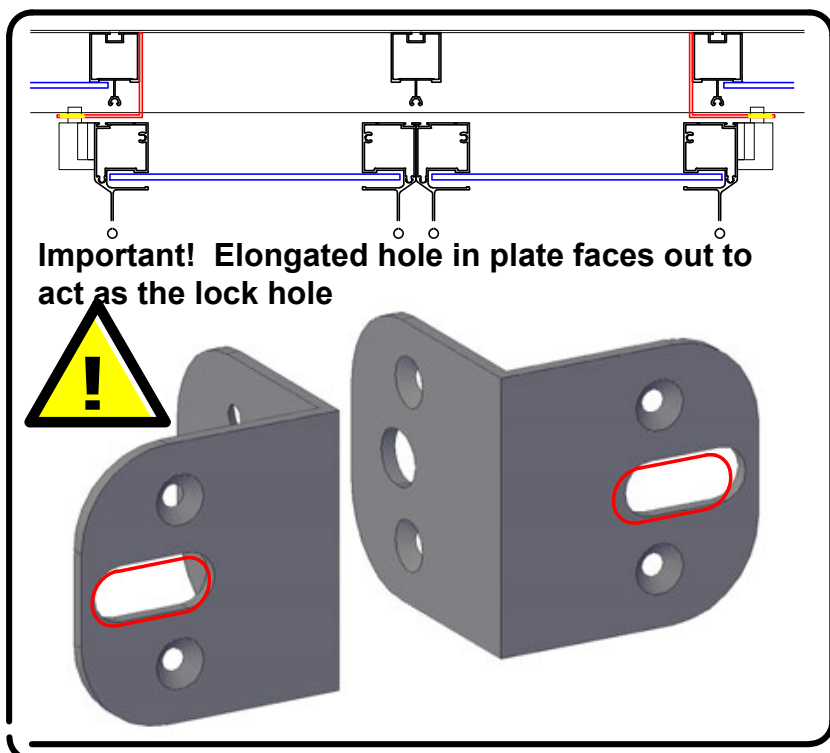
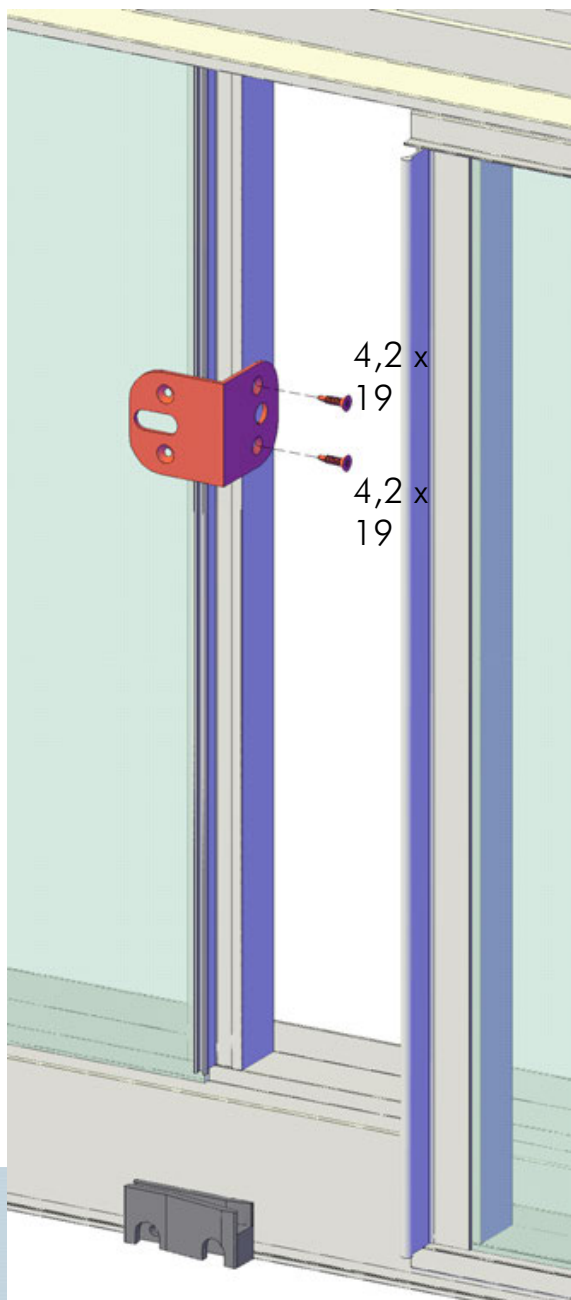
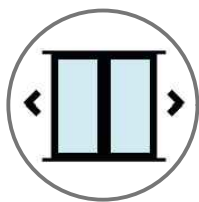
Version 2: Door Lock Installation - Single door

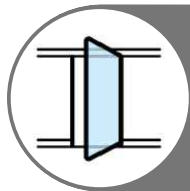


Important! Circular hole in plate faces out to act as the lock hole



Version 2: Door Lock Installation - Double door





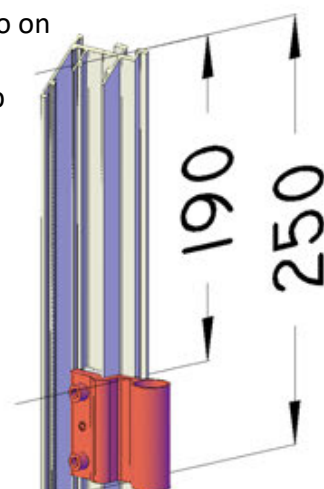
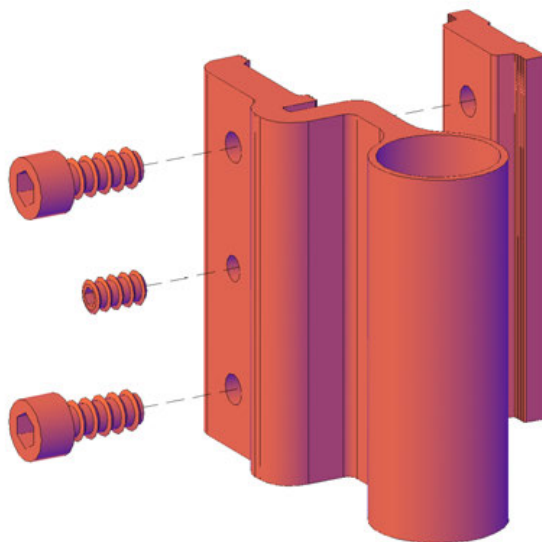
OPTIONAL UPGRADE: Hinged Door

HD

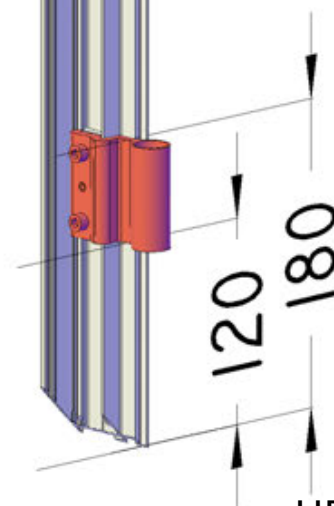
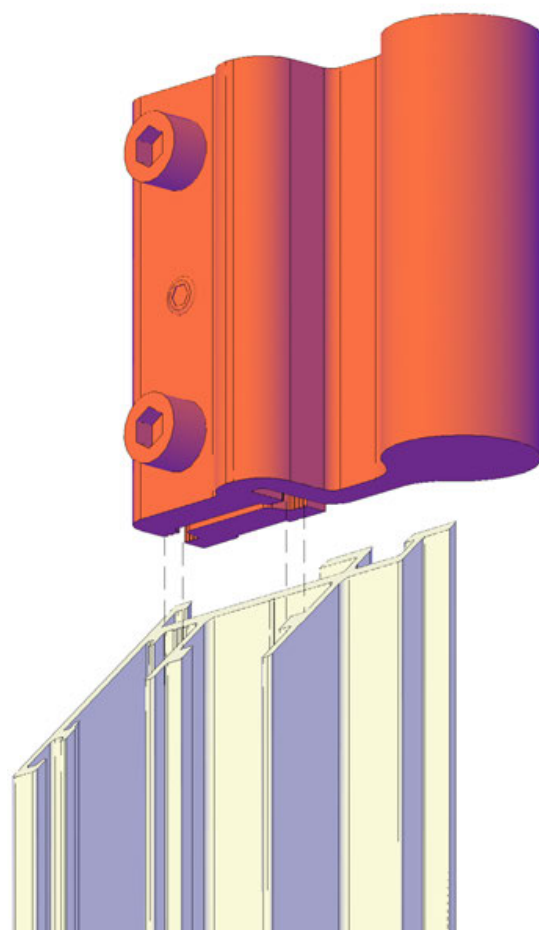
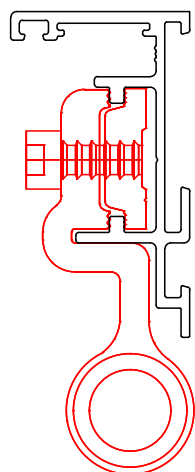


IMPORTANT: Find Janssens Accessory installation video on our site here:

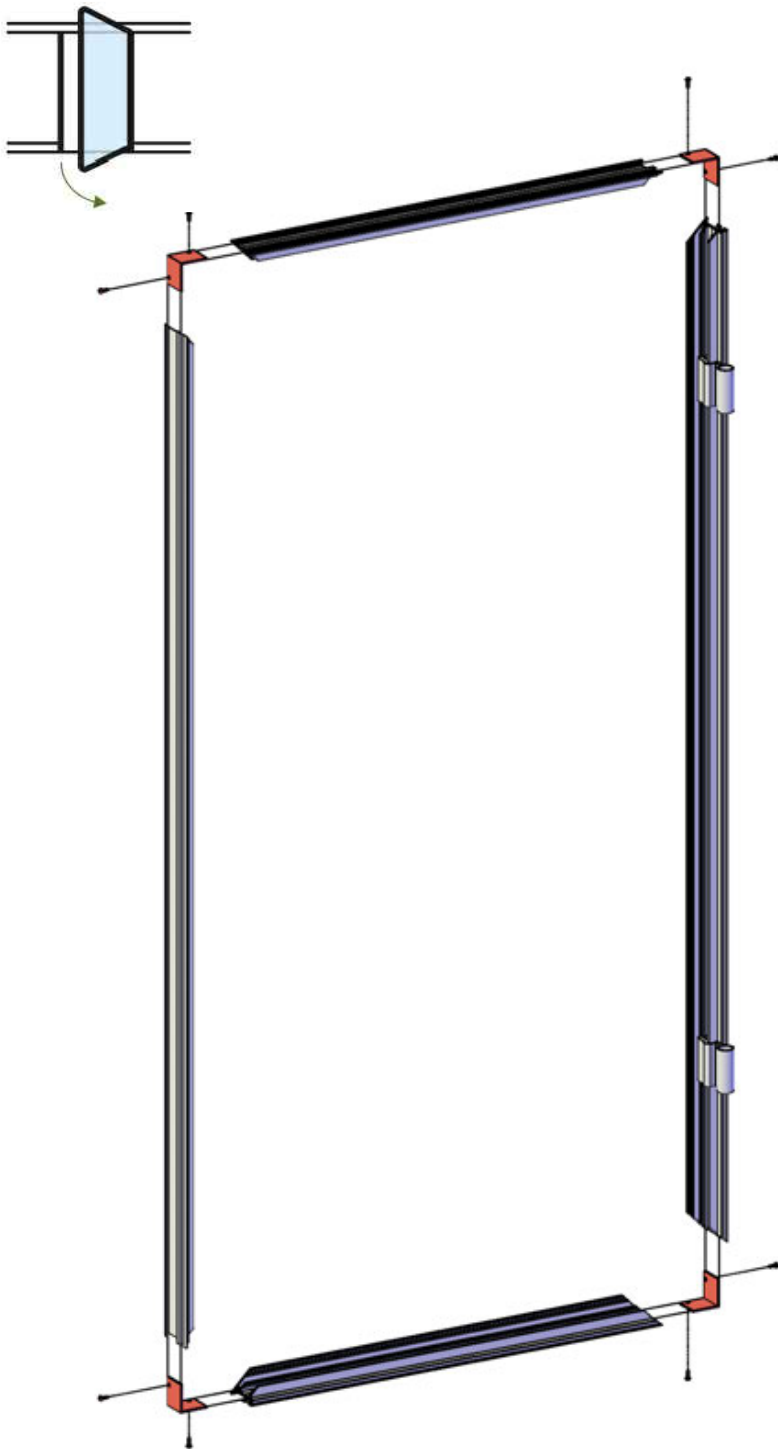
<https://www.exaco.com/greenhouse-victorian.php>



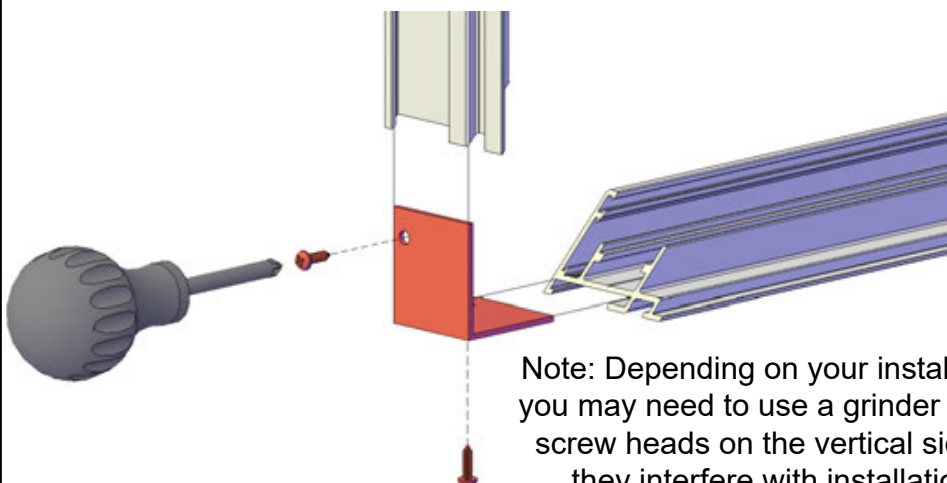
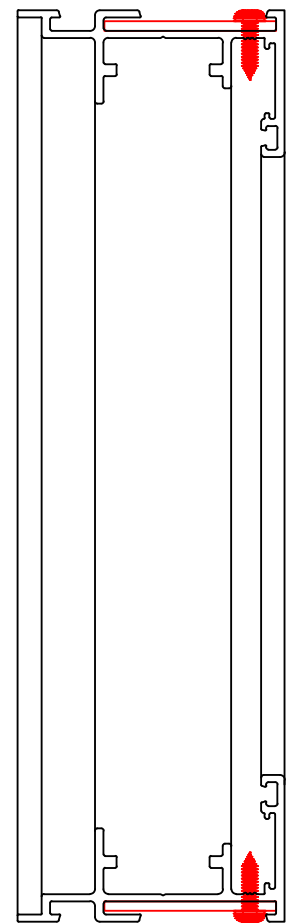
Hinges in door jamb will need to be adjusted.
Distances are in millimeters.



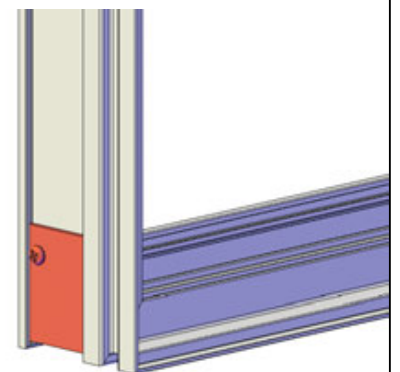
HD 1



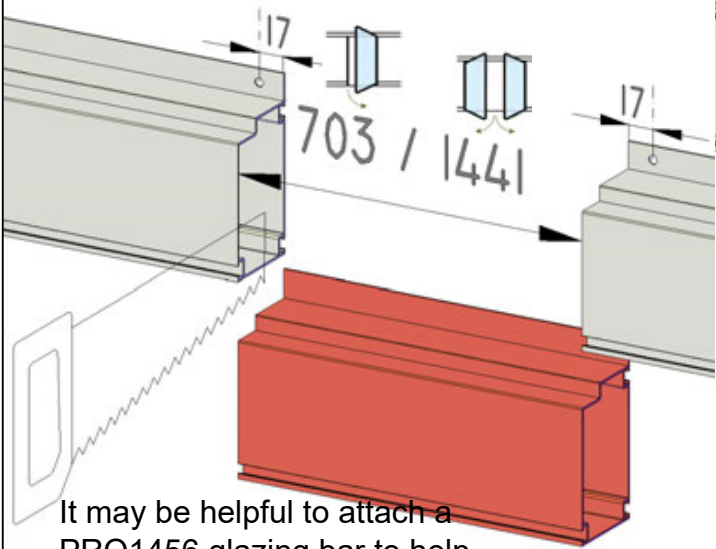
	ITEM	PC.	L
L	L 40X40	4 PC	36 MM
	PRO6280	2 PC	703 MM
	PRO6280	2 PC	1.441 MM
	PRO6280	2 PC	1.930 MM
	4,2 x 13	8 PC	



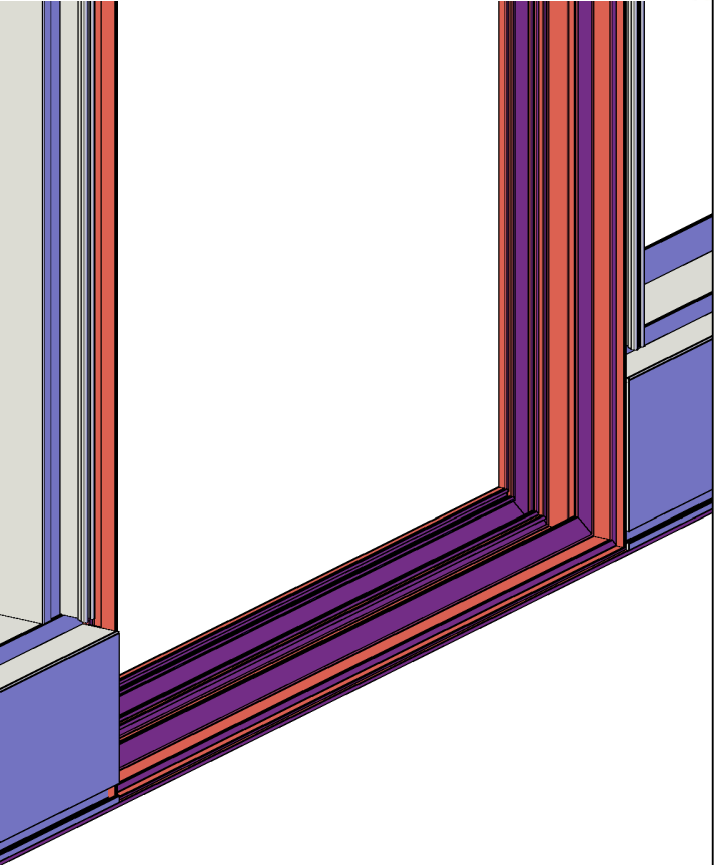
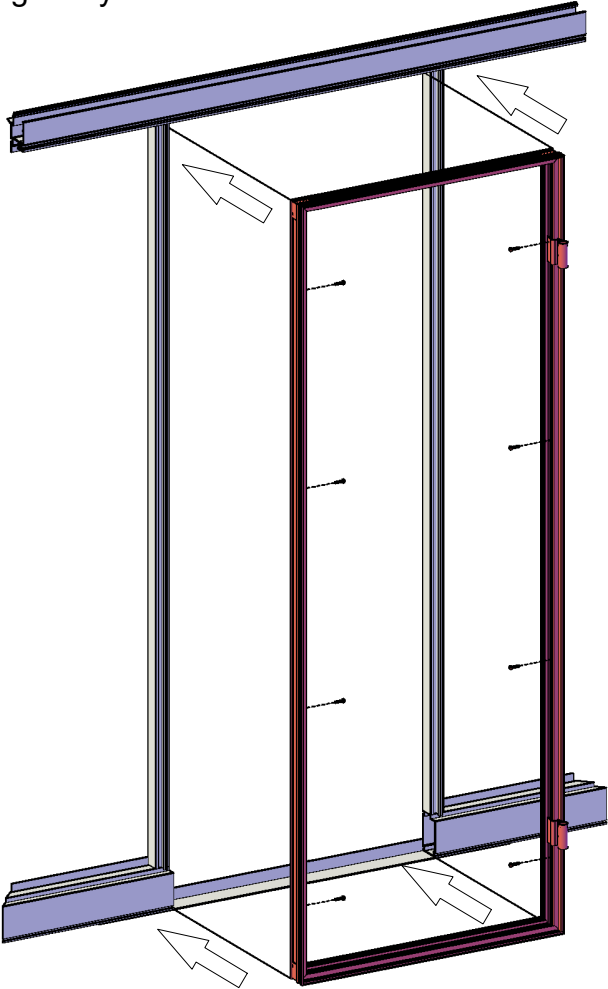
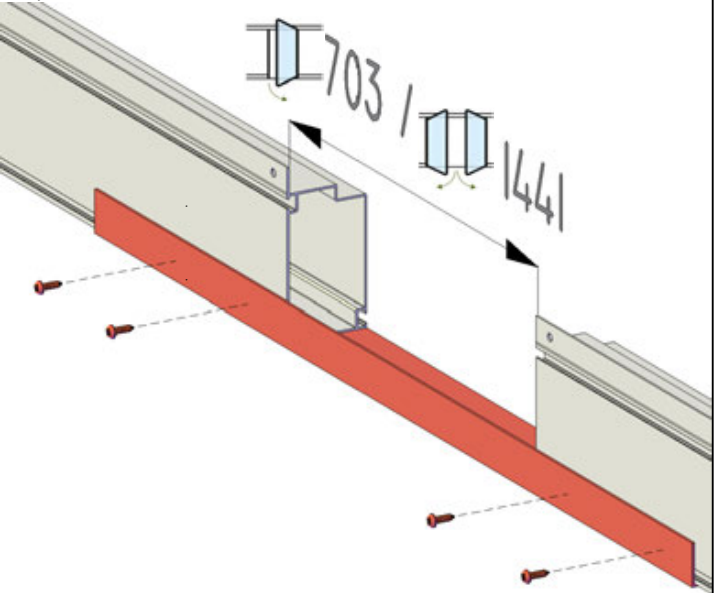
Note: Depending on your installation, you may need to use a grinder on the screw heads on the vertical sides if they interfere with installation.



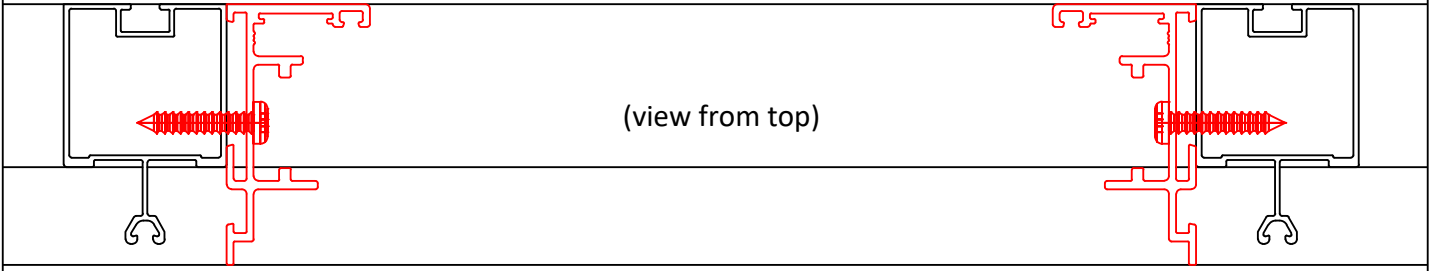
Double Hinged door will need opening of 1441mm, 17mm from bolt holes on foundation frame.



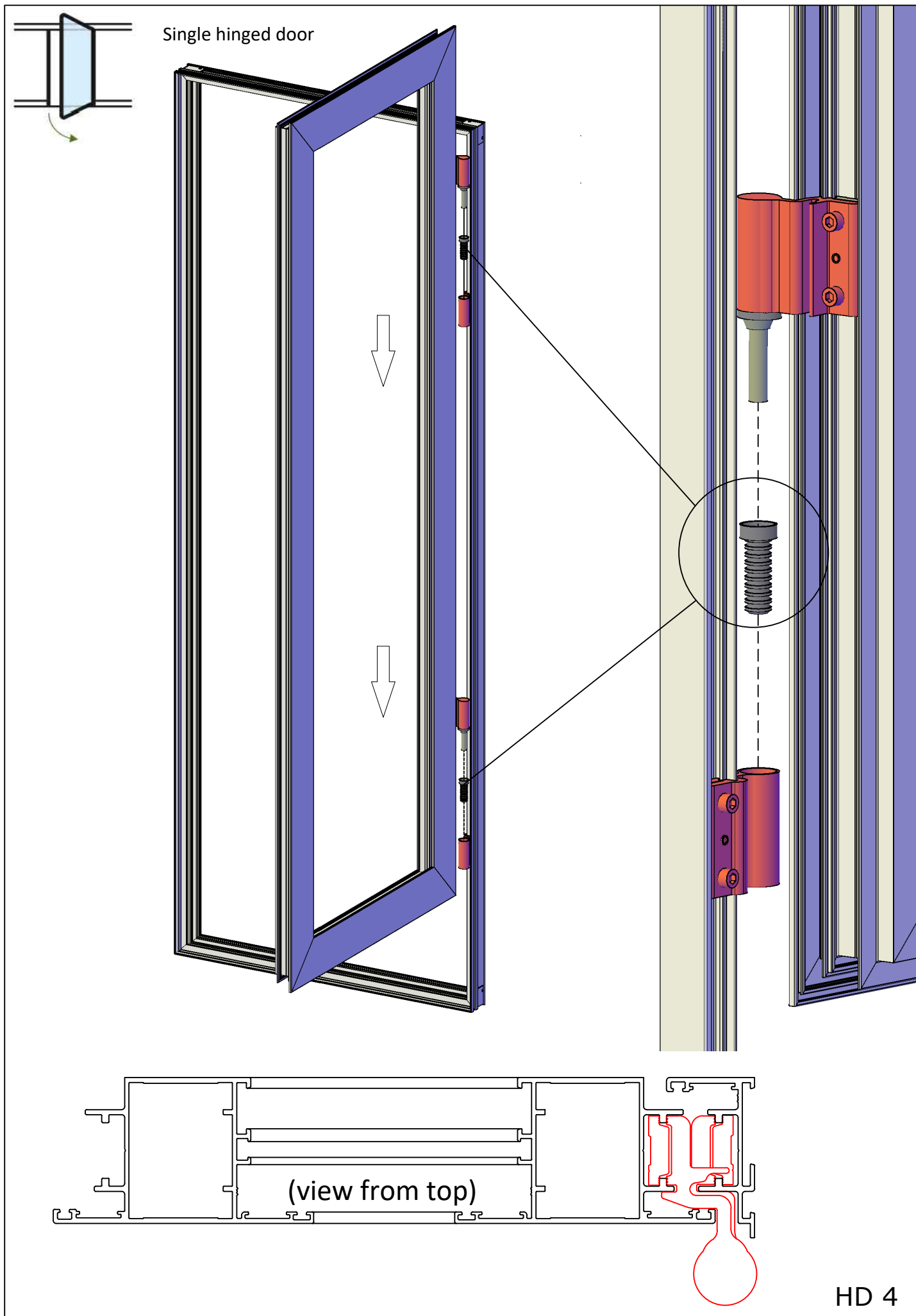
It may be helpful to attach a PRO1456 glazing bar to help guide you where to cut.

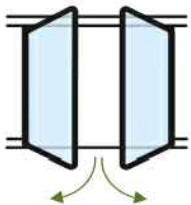


(Single door shown, double door jamb installation will be identical)

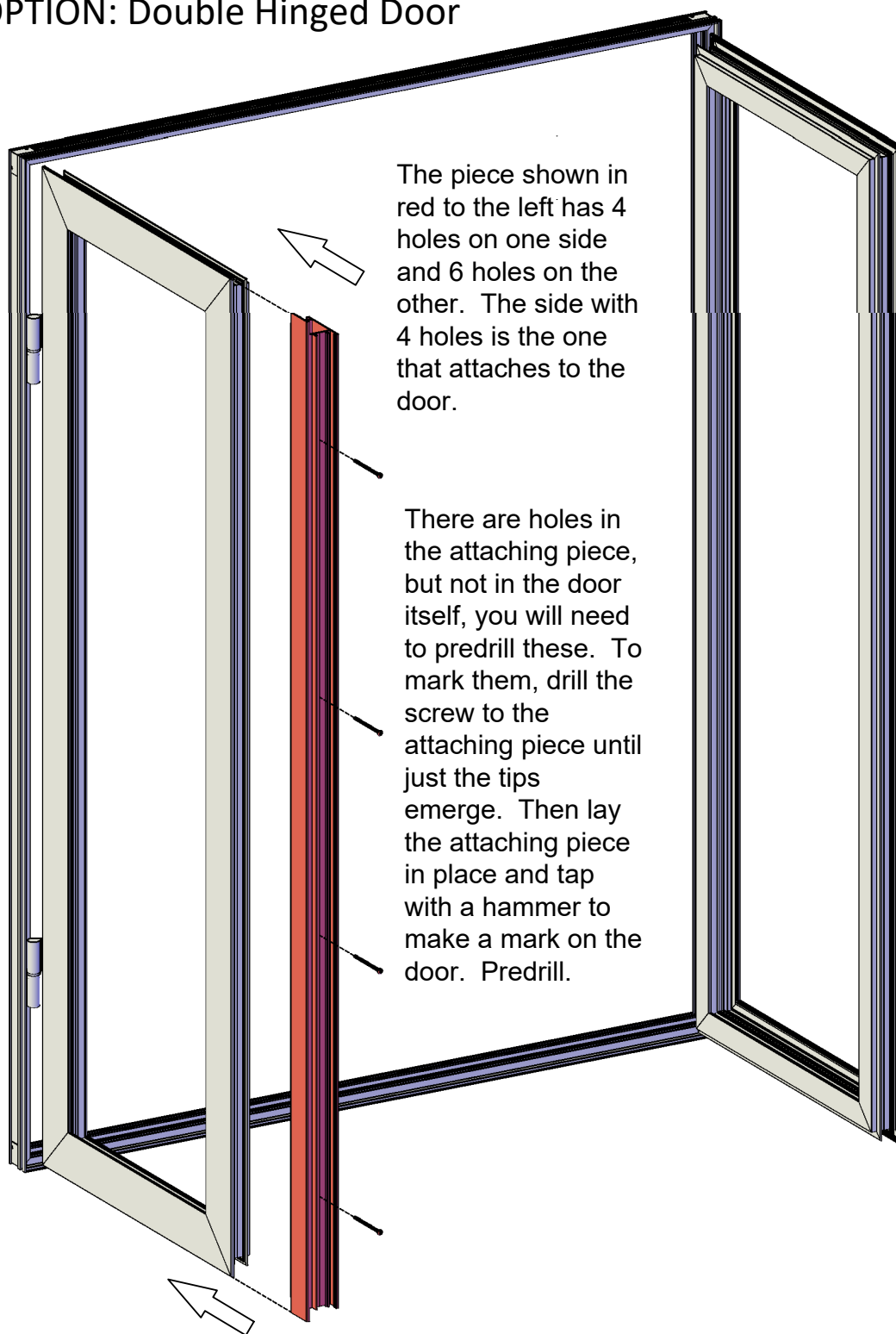


(view from top)



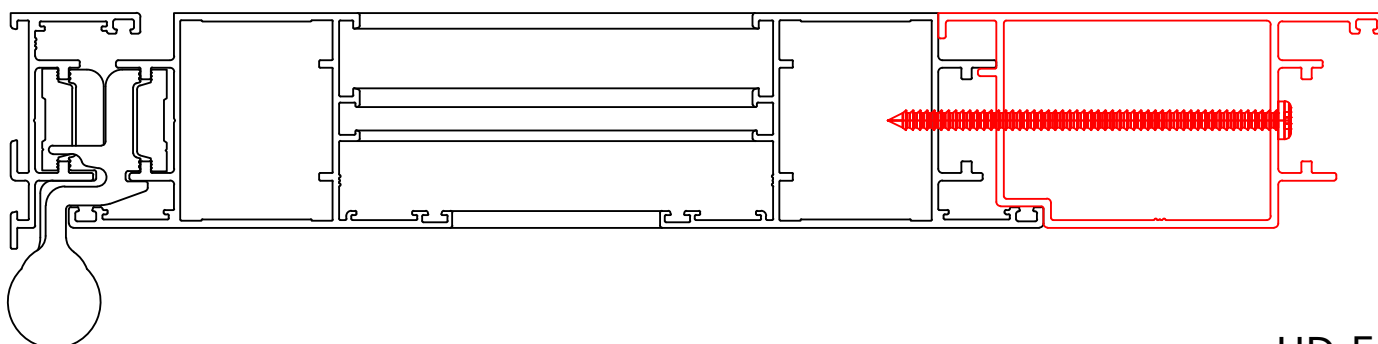


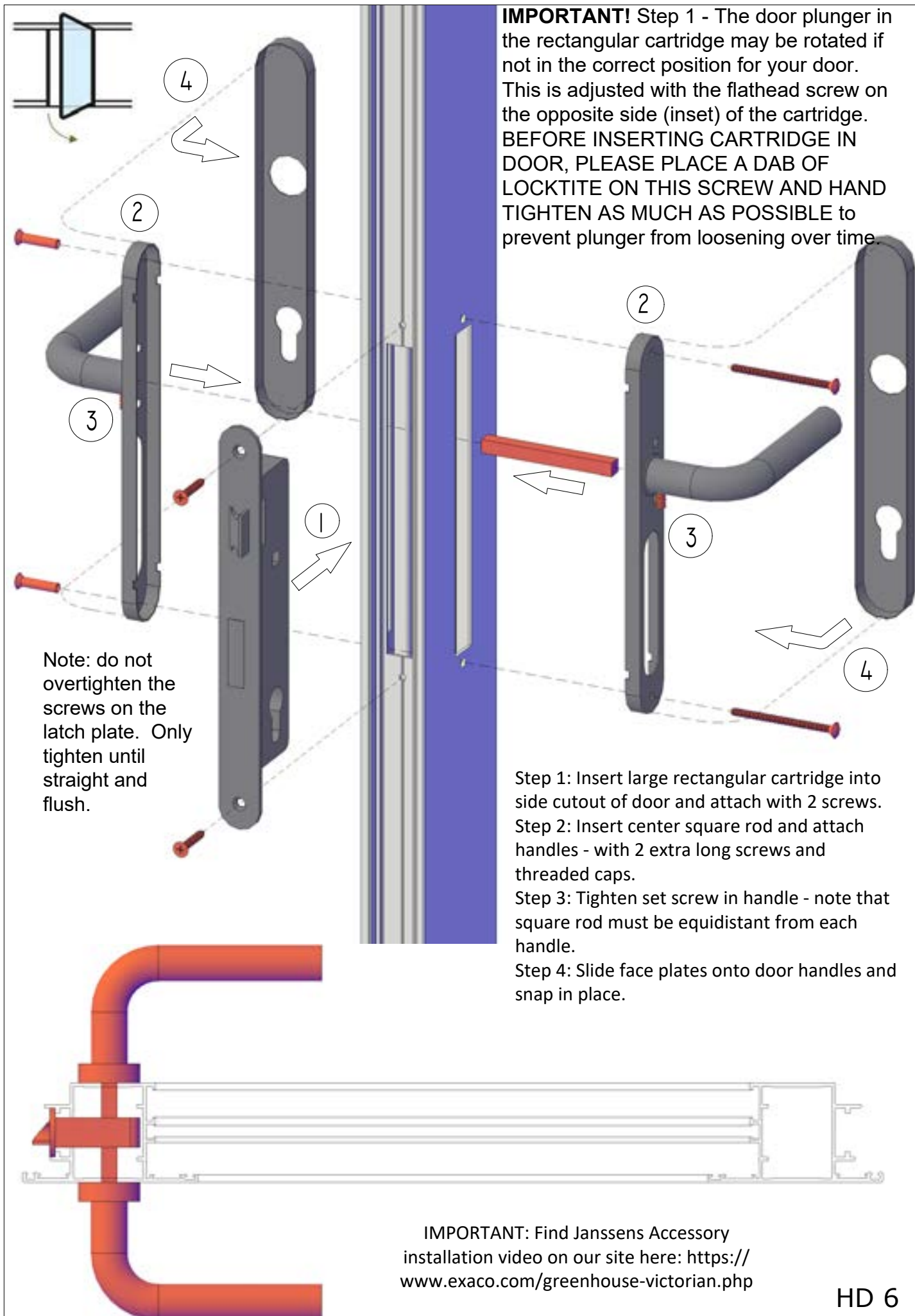
OPTION: Double Hinged Door



The piece shown in red to the left has 4 holes on one side and 6 holes on the other. The side with 4 holes is the one that attaches to the door.

There are holes in the attaching piece, but not in the door itself, you will need to predrill these. To mark them, drill the screw to the attaching piece until just the tips emerge. Then lay the attaching piece in place and tap with a hammer to make a mark on the door. Predrill.





IMPORTANT! Step 1 - The door plunger in the rectangular cartridge may be rotated if not in the correct position for your door. This is adjusted with the flathead screw on the opposite side (inset) of the cartridge. **BEFORE INSERTING CARTRIDGE IN DOOR, PLEASE PLACE A DAB OF LOCKTITE ON THIS SCREW AND HAND TIGHTEN AS MUCH AS POSSIBLE** to prevent plunger from loosening over time.

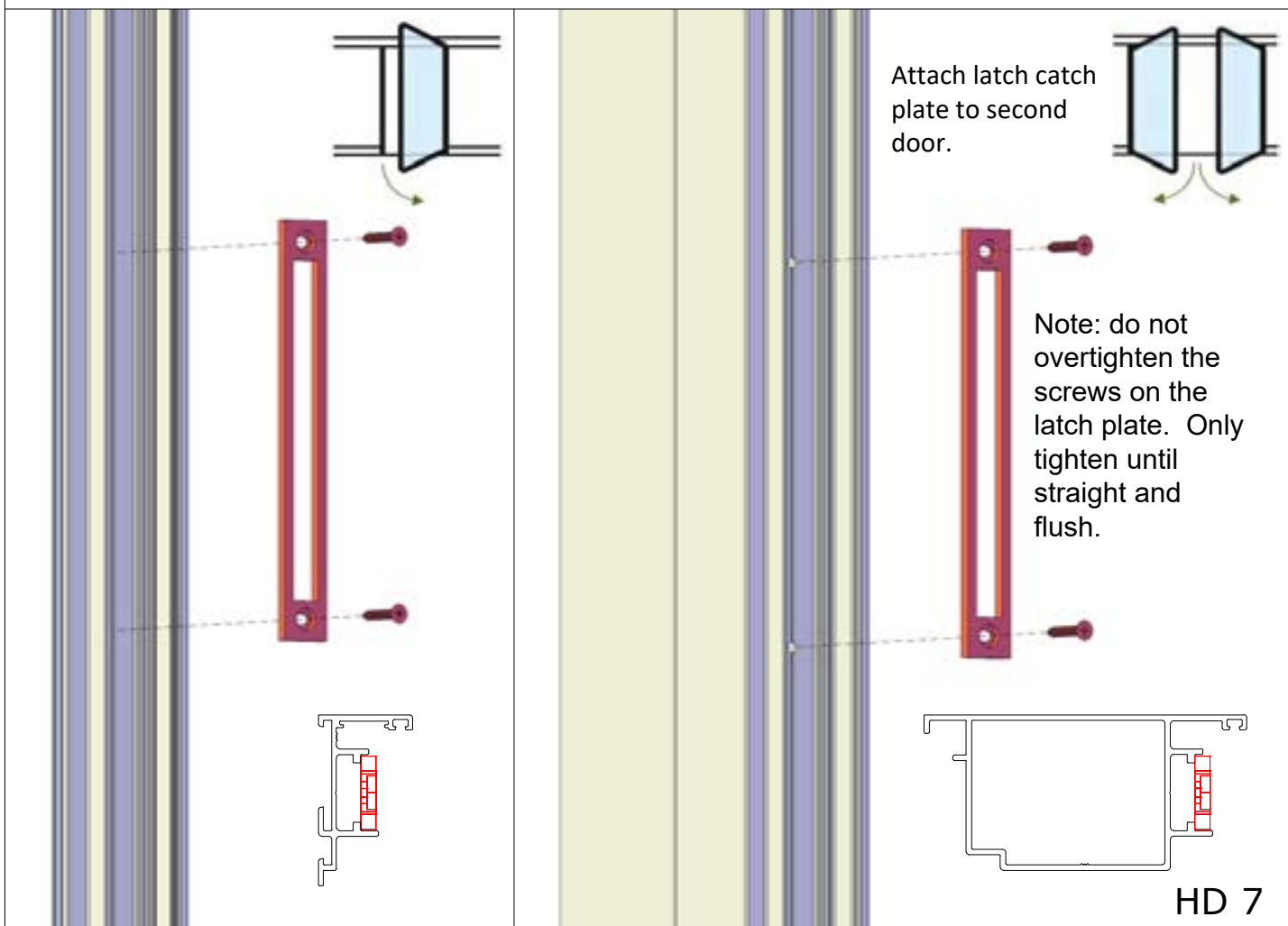
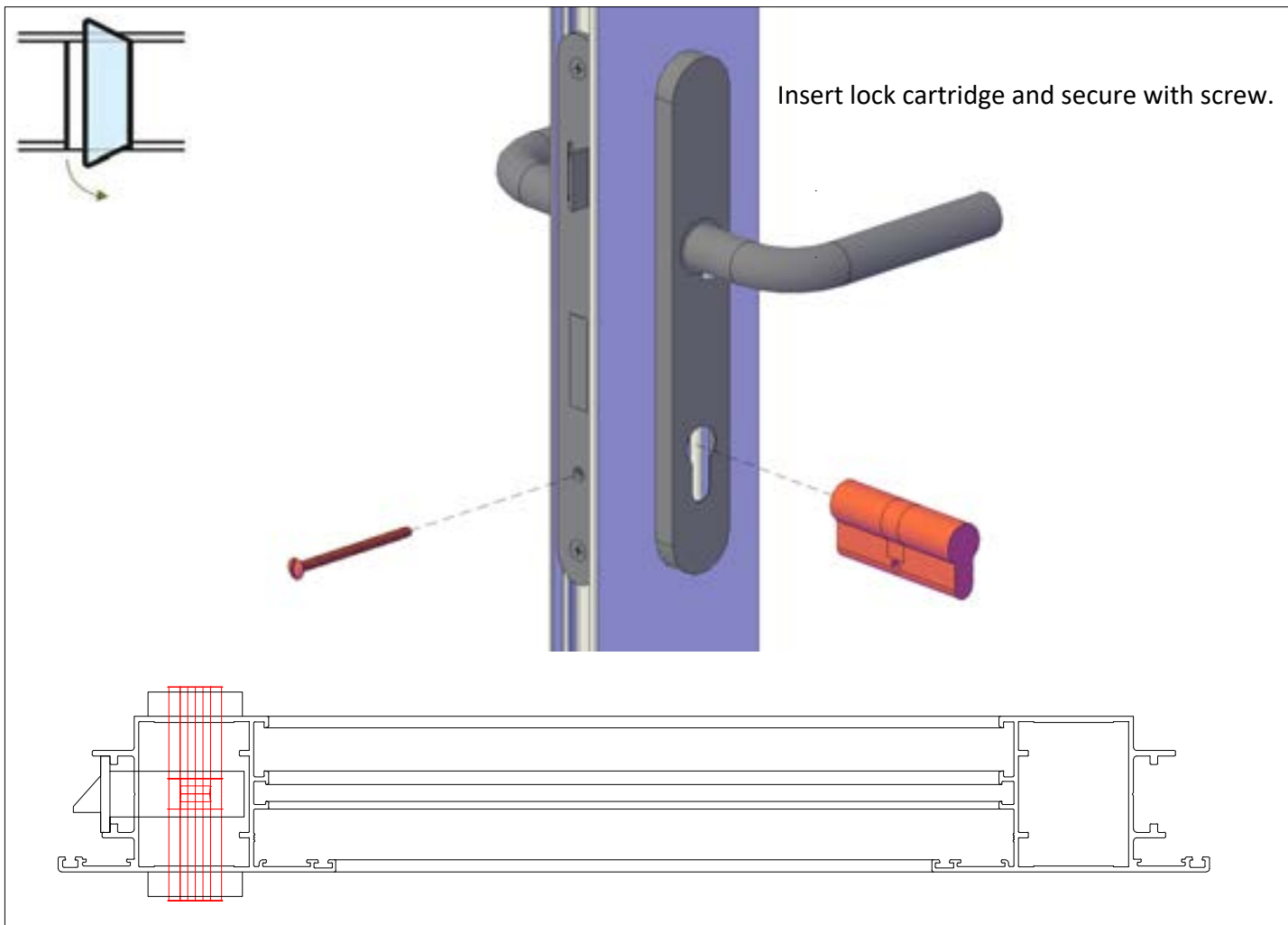
Note: do not overtighten the screws on the latch plate. Only tighten until straight and flush.

Step 1: Insert large rectangular cartridge into side cutout of door and attach with 2 screws.
Step 2: Insert center square rod and attach handles - with 2 extra long screws and threaded caps.

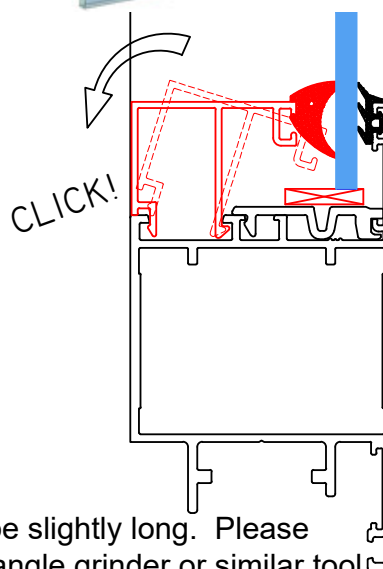
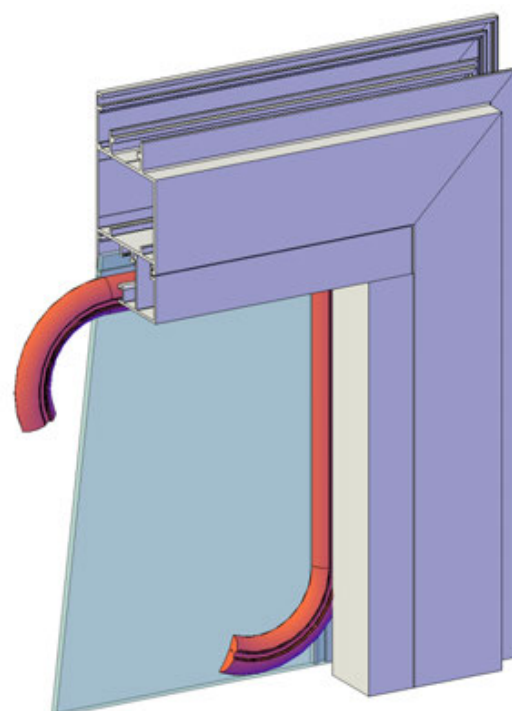
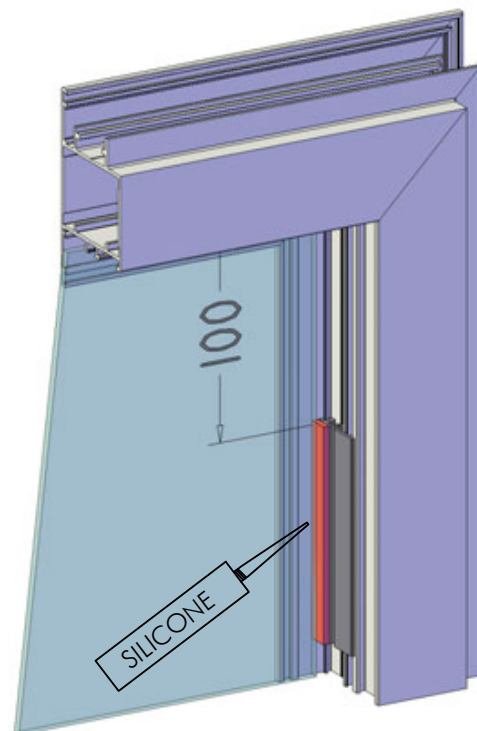
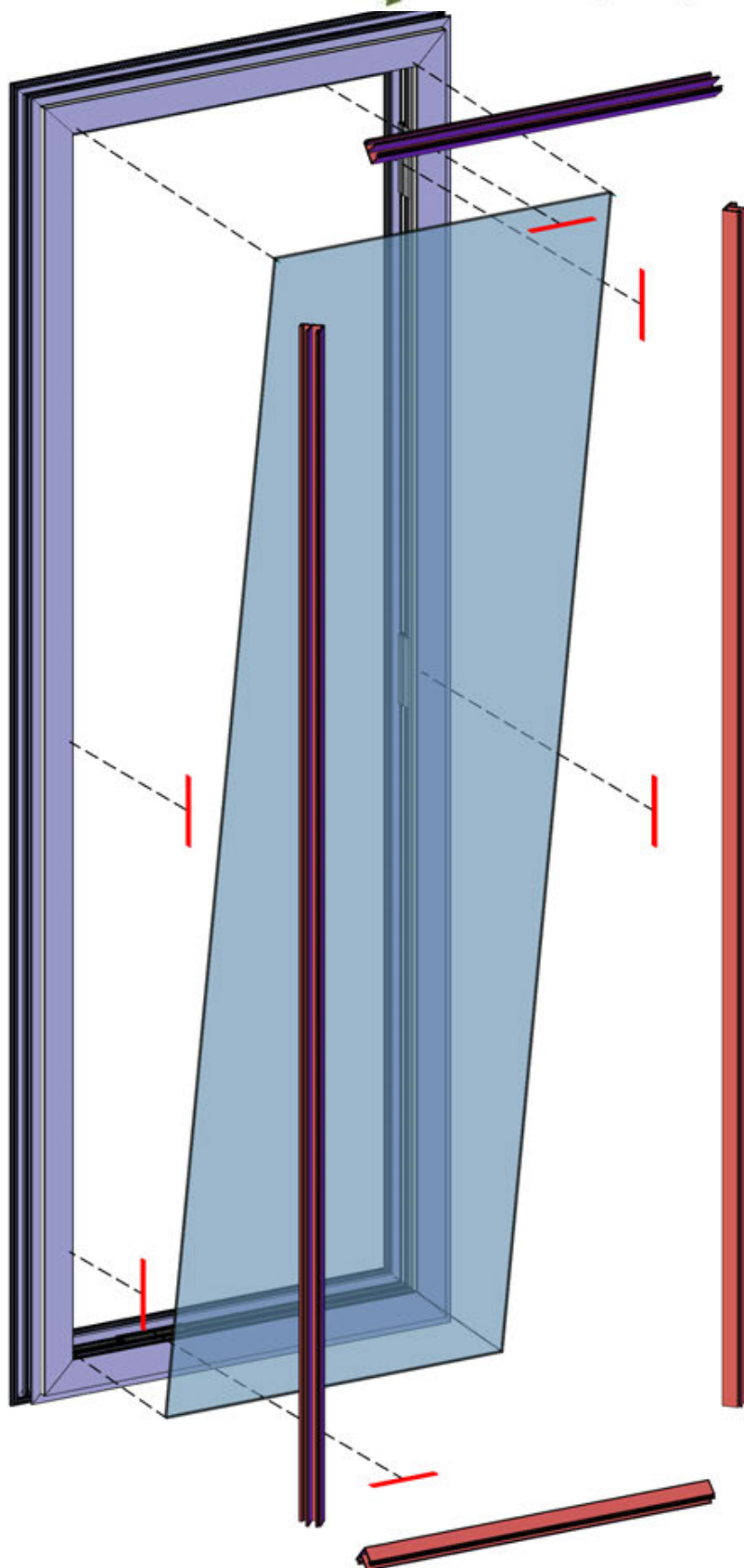
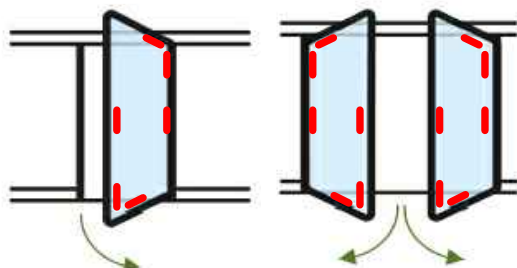
Step 3: Tighten set screw in handle - note that square rod must be equidistant from each handle.

Step 4: Slide face plates onto door handles and snap in place.

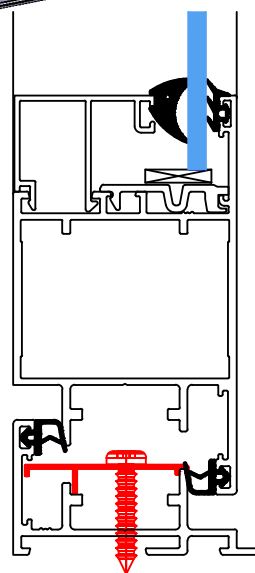
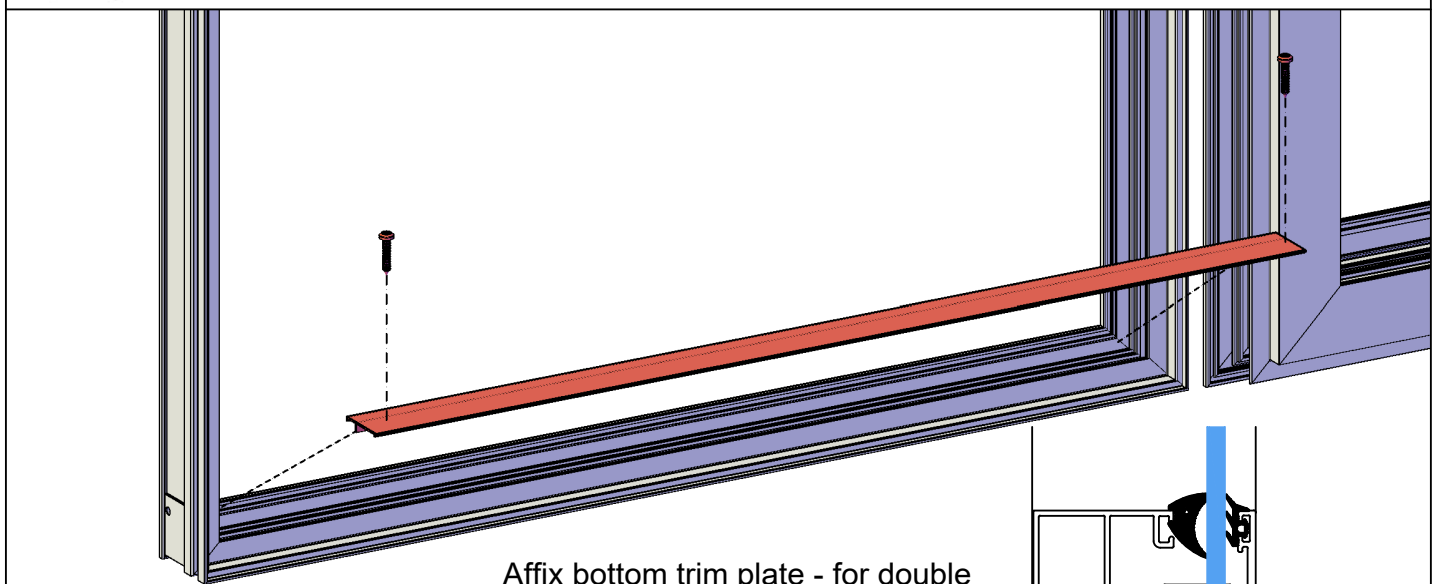
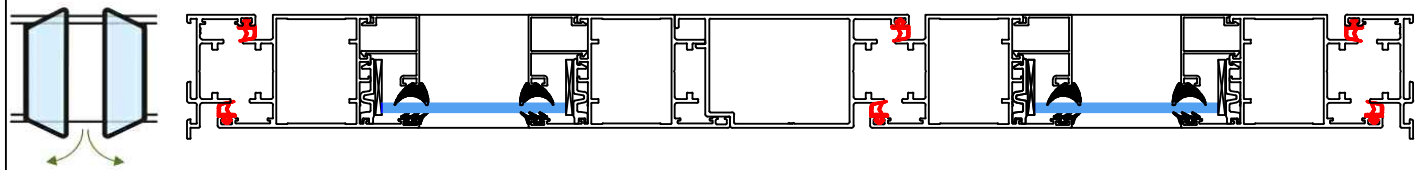
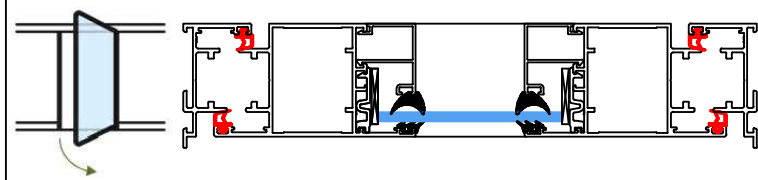
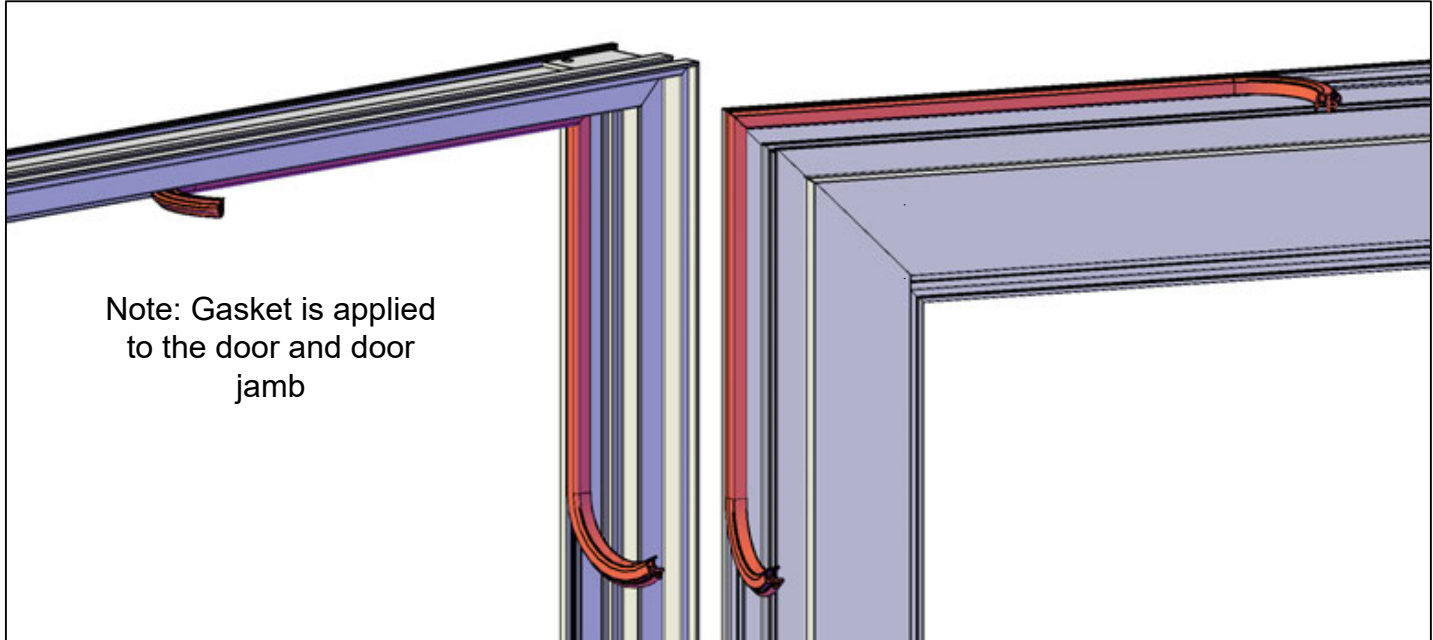
IMPORTANT: Find Janssens Accessory installation video on our site here: <https://www.exaco.com/greenhouse-victorian.php>

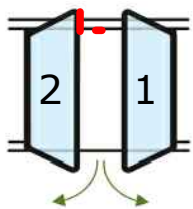


For the next step, we recommend placing the door flat until glass is installed.

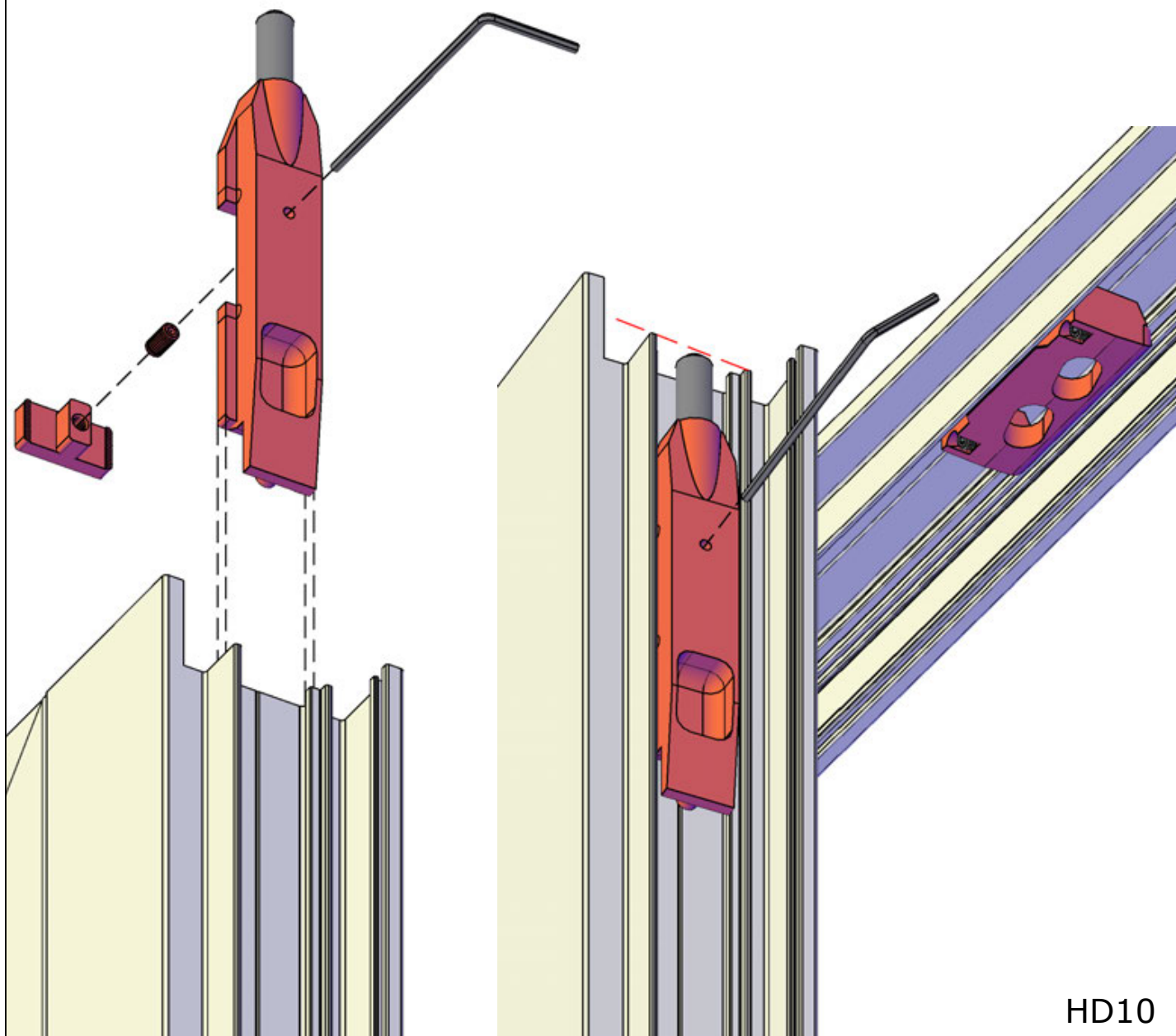
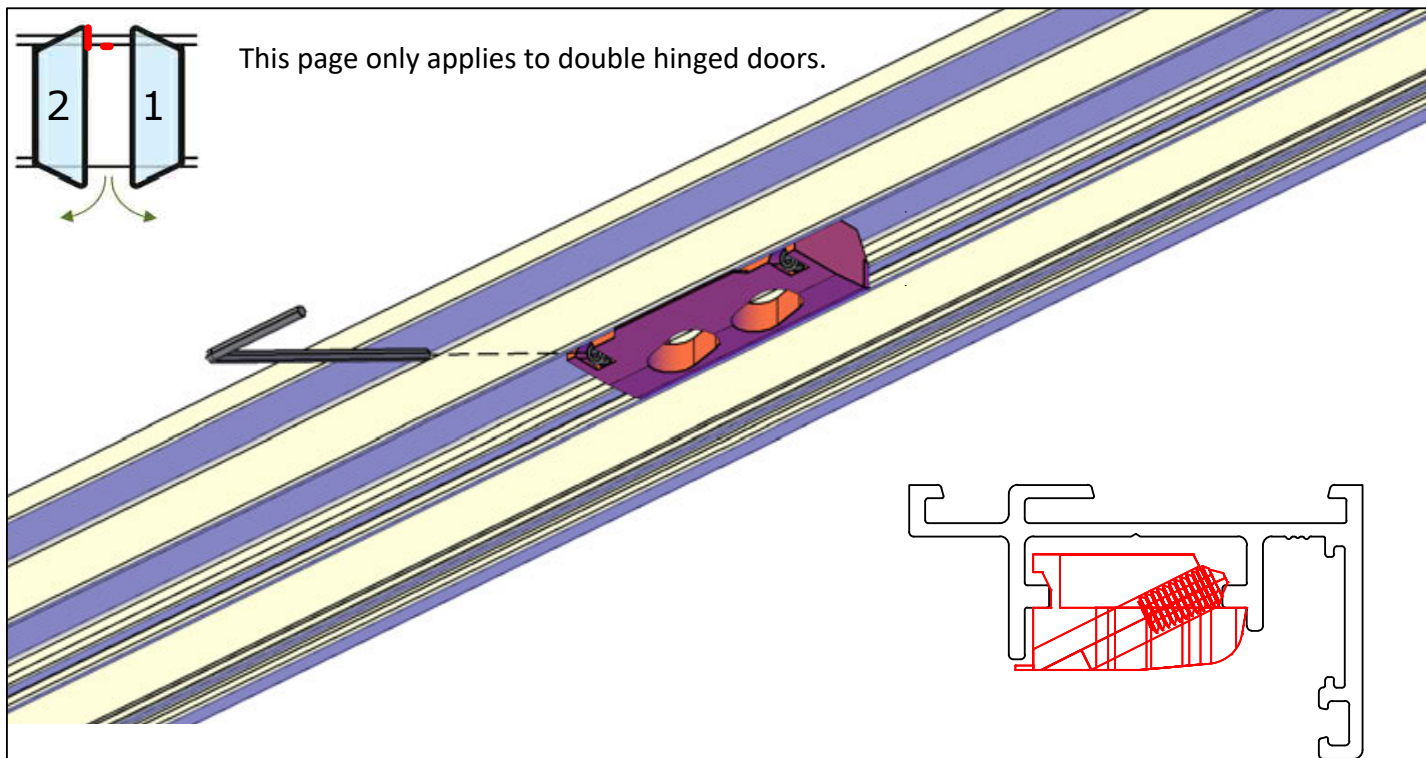


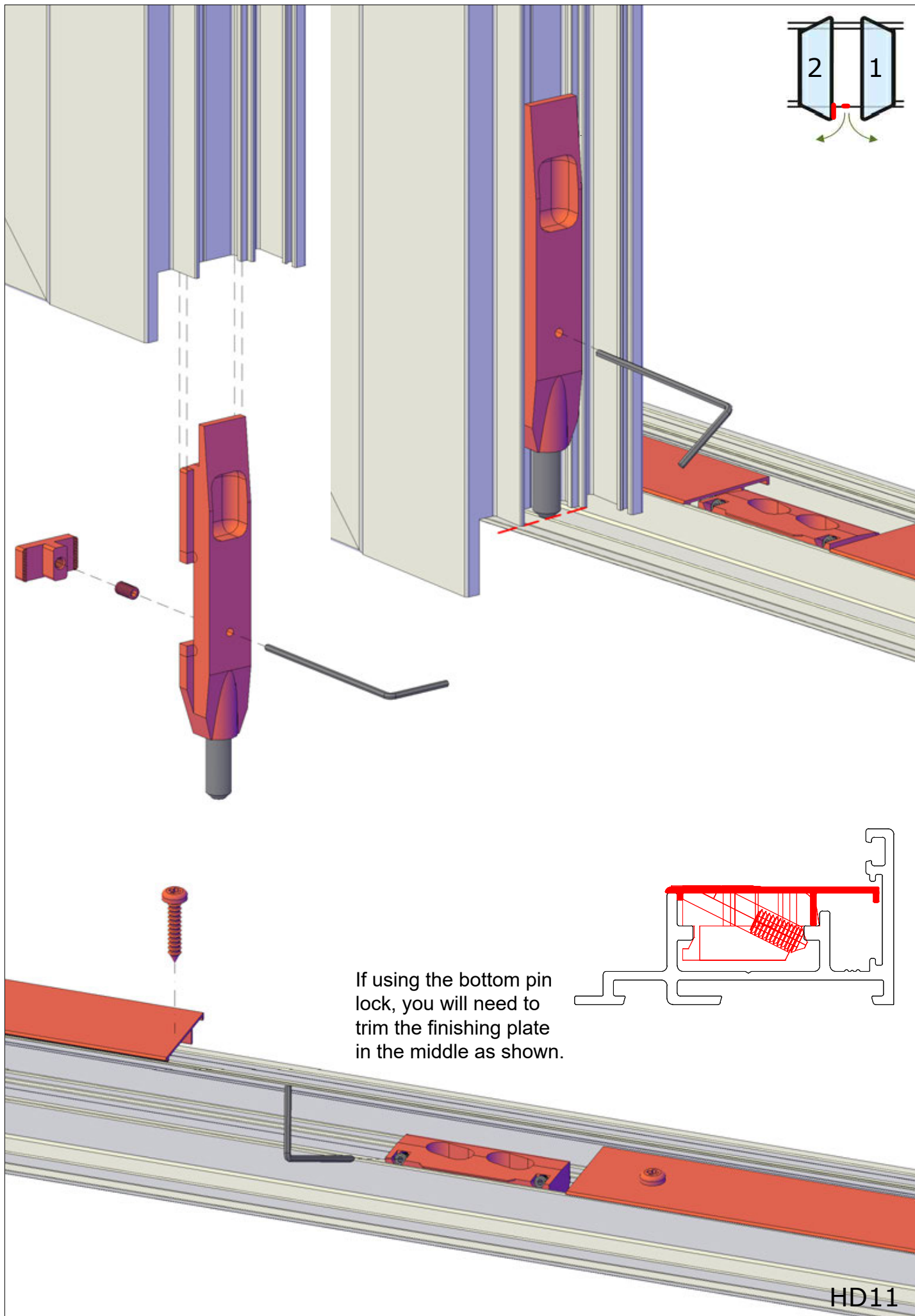
NOTE: the horizontal glazing strips shown in red above may be slightly long. Please measure and trim to fit your door using a hacksaw, hand file, angle grinder or similar tool.





This page only applies to double hinged doors.



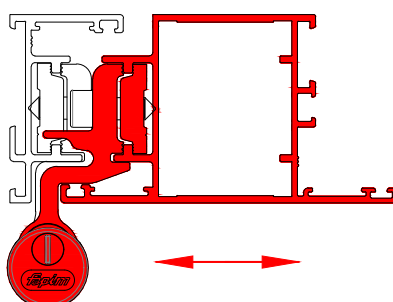
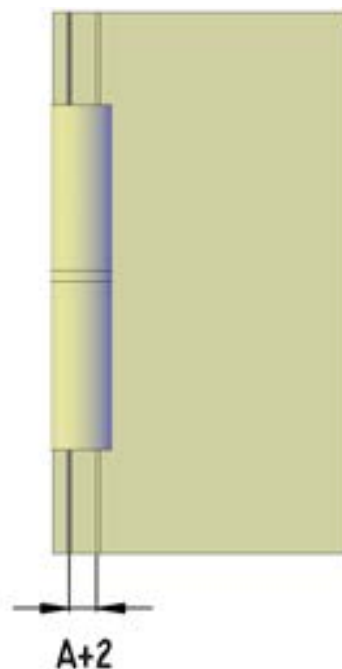
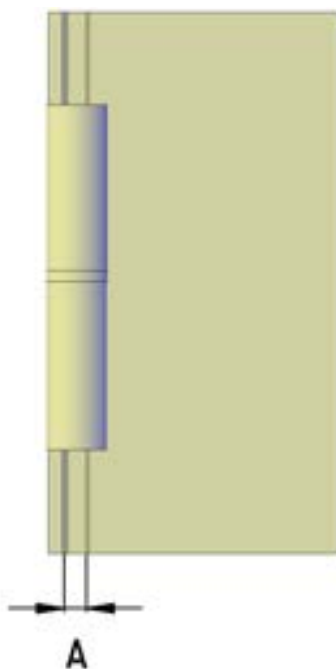
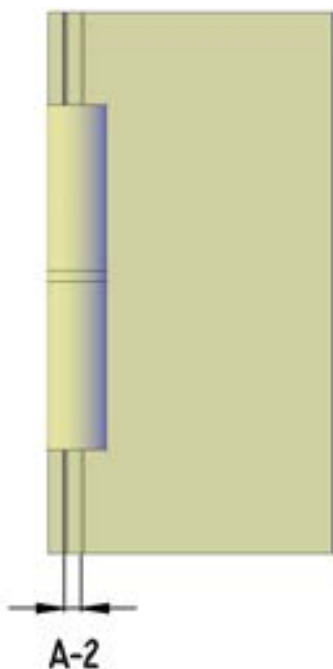
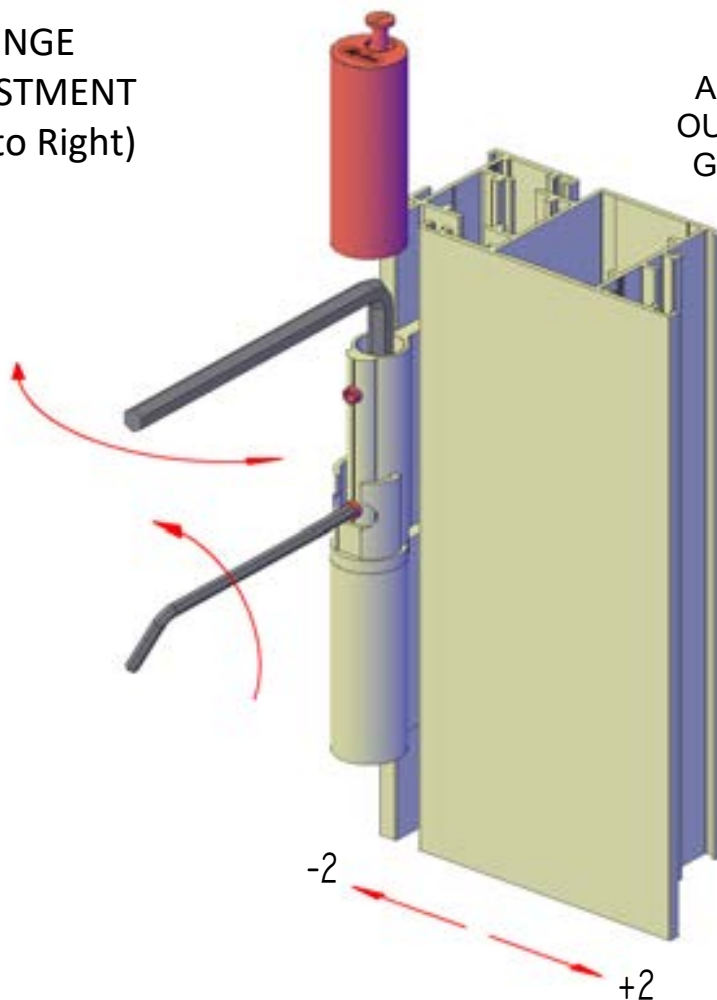


If using the bottom pin lock, you will need to trim the finishing plate in the middle as shown.



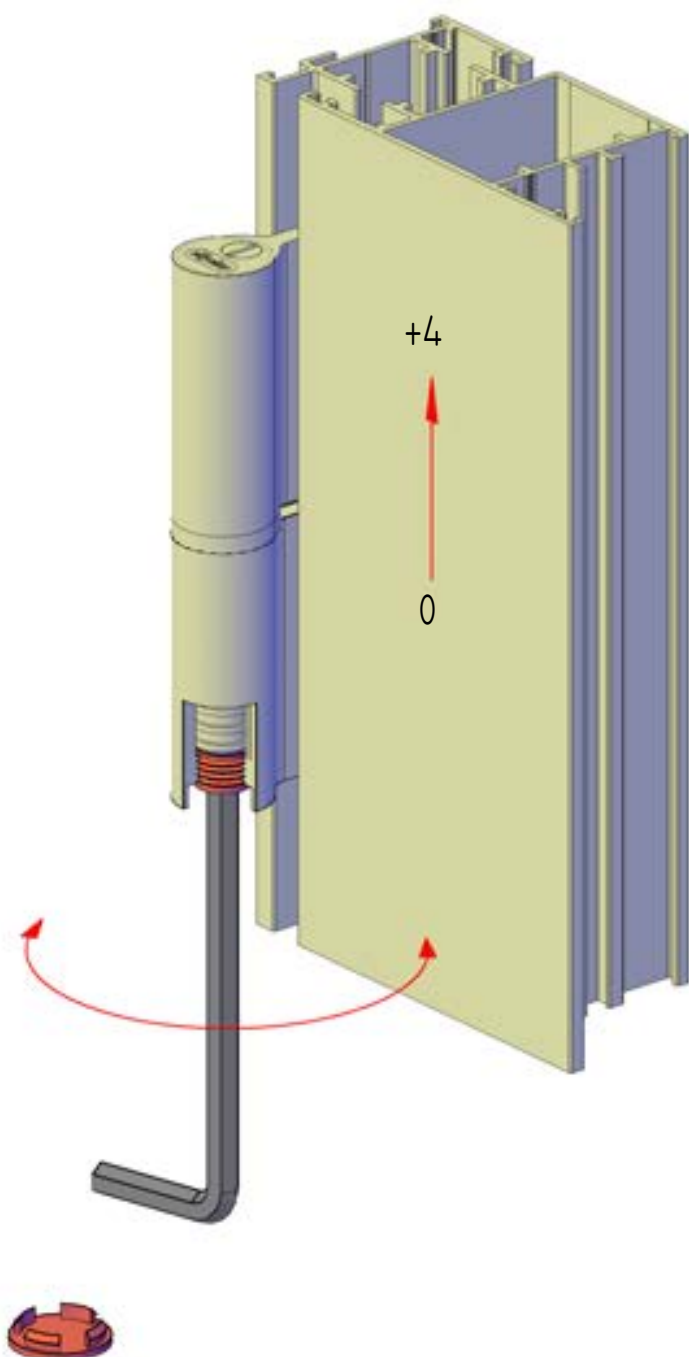
HINGE
ADJUSTMENT
(Left to Right)

LOOK FOR HINGE
ADJUSTMENT VIDEO ON
OUR YOUTUBE VICTORIAN
GREENHOUSE PLAYLIST

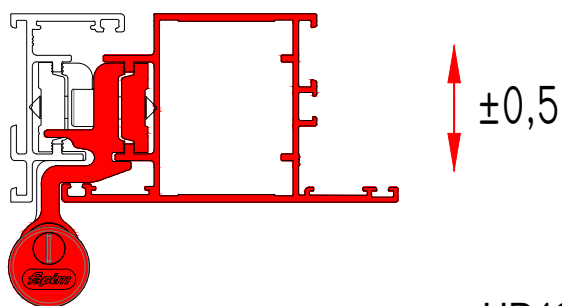
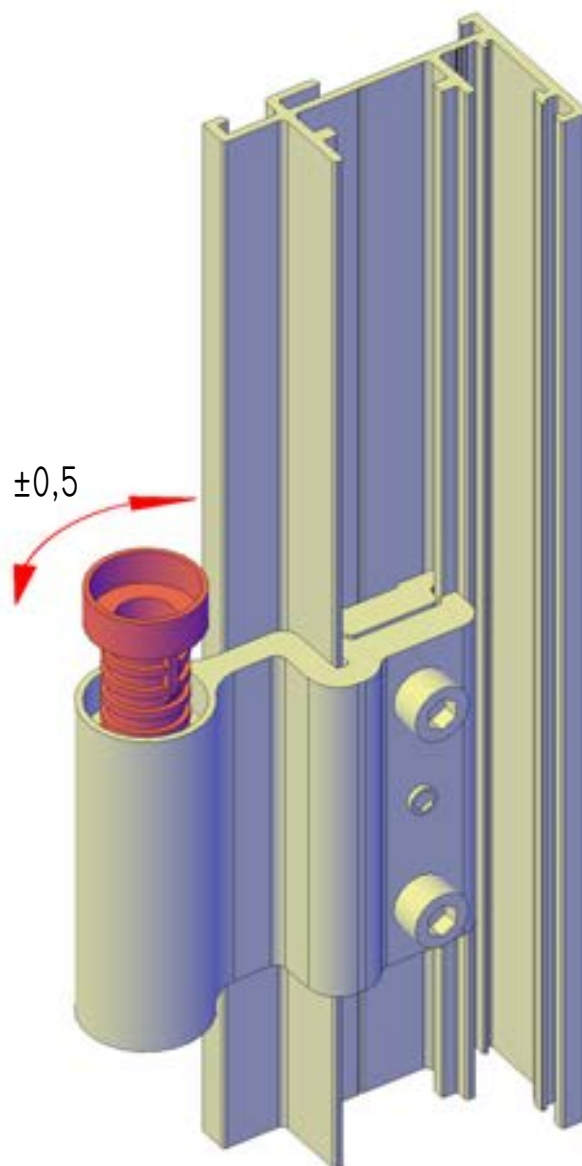




HINGE ADJUSTMENT (Up)



HINGE ADJUSTMENT (Front/Back)



HD13

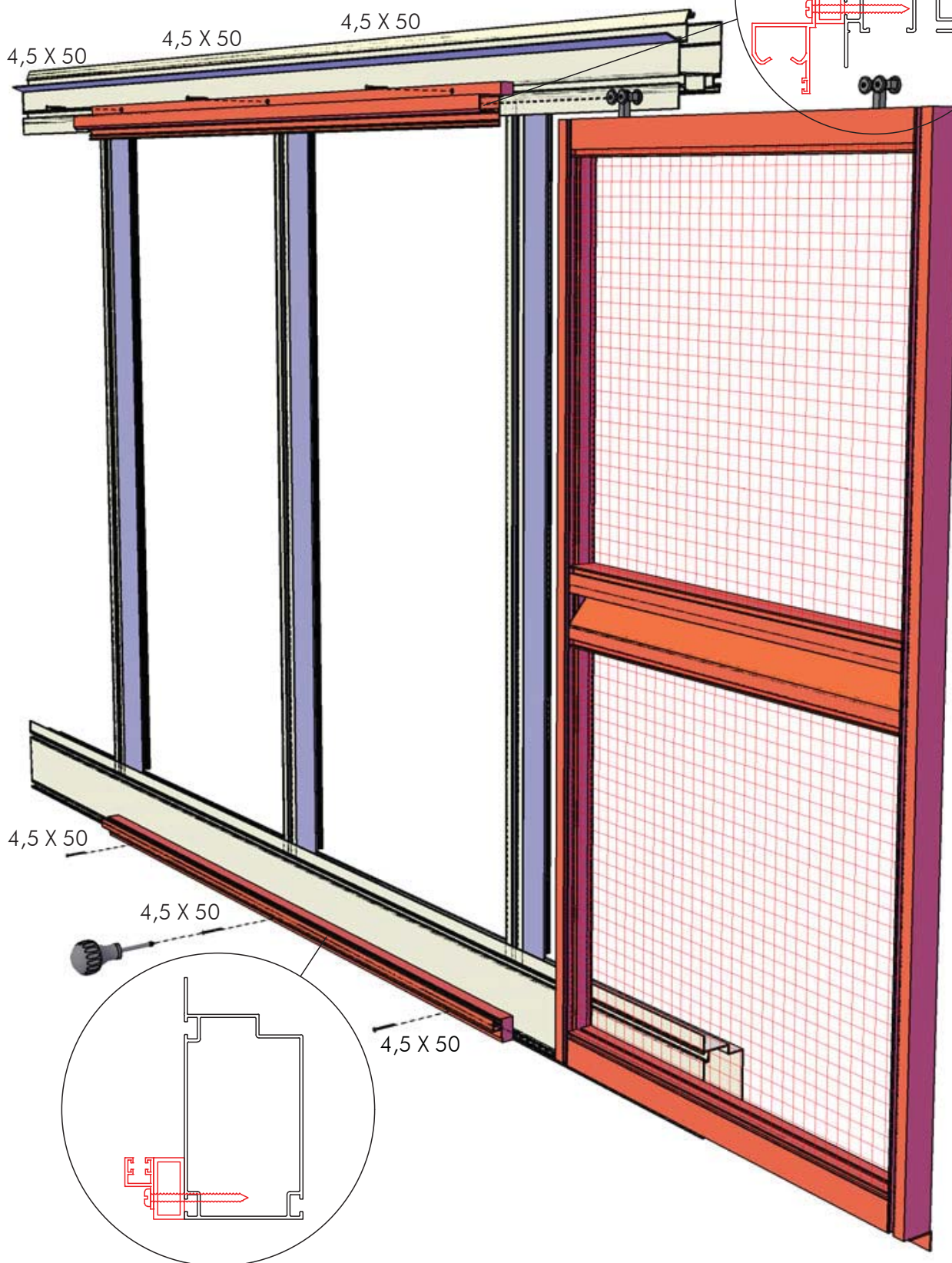


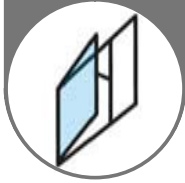
Optional Upgrade: Door Fly Screen

(while supplies last - limited availability)

FD

Notes about Fly Screen Door: This slides along the interior of the greenhouse, and will not be compatible with greenhouses on a stem wall. May be used with sliding or hinged doors.

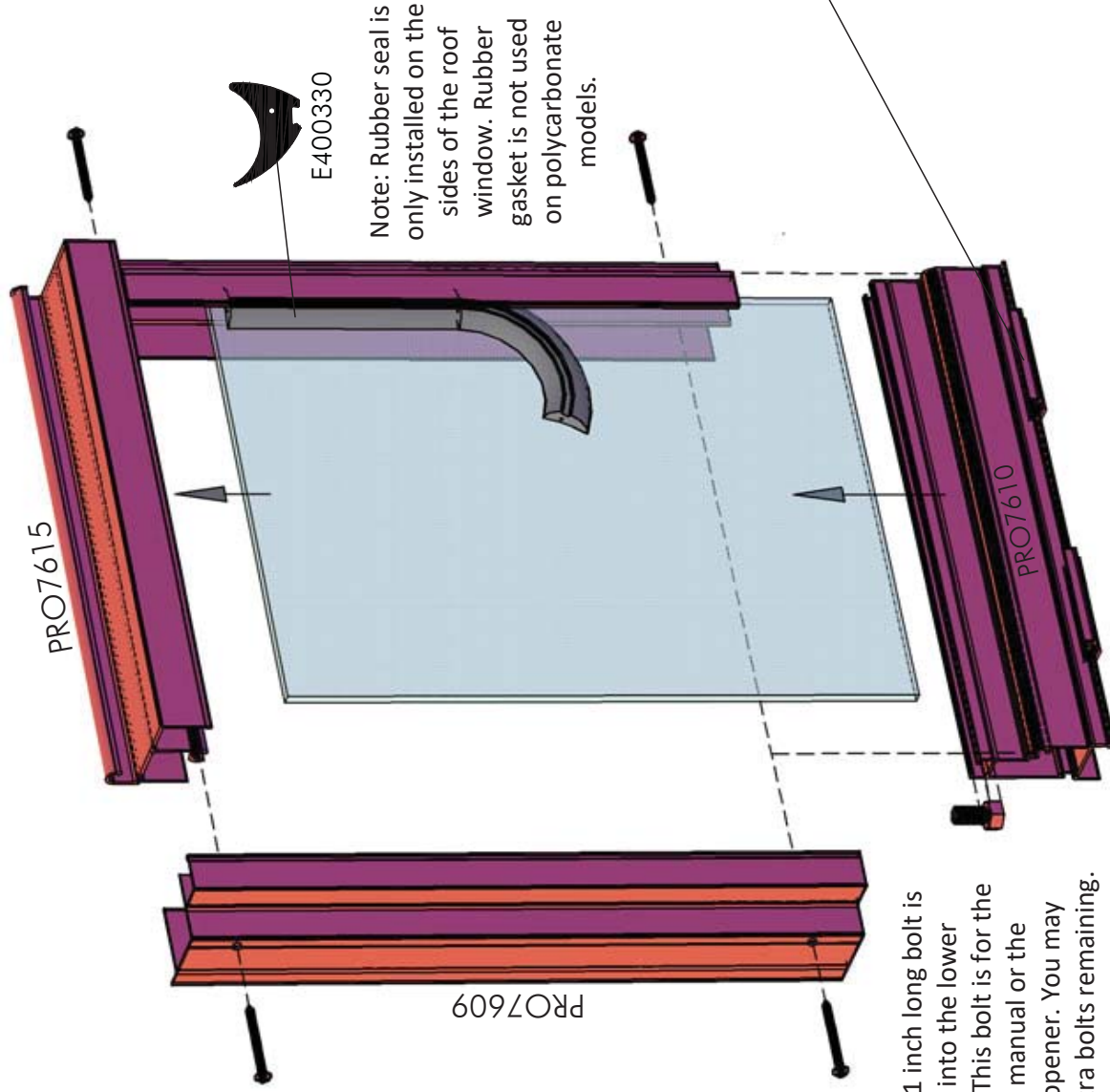




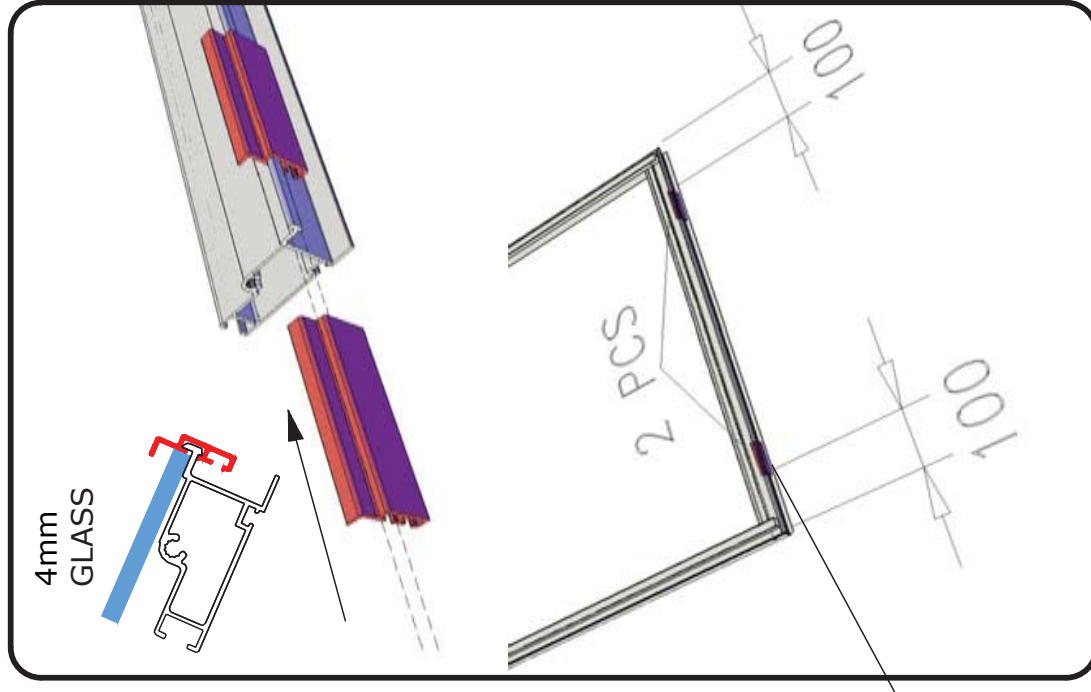
Roof Window /Vent -

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

RW



Note: A 1 inch long bolt is inserted into the lower profile. This bolt is for the optional manual or the spindle opener. You may have extra bolts remaining.



Roof Window Installation

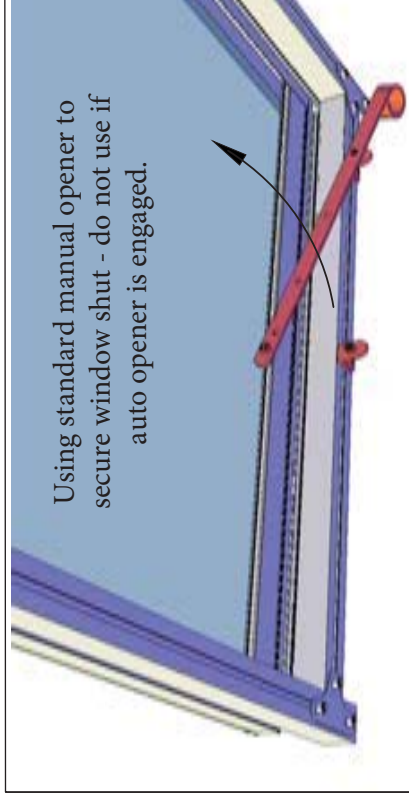
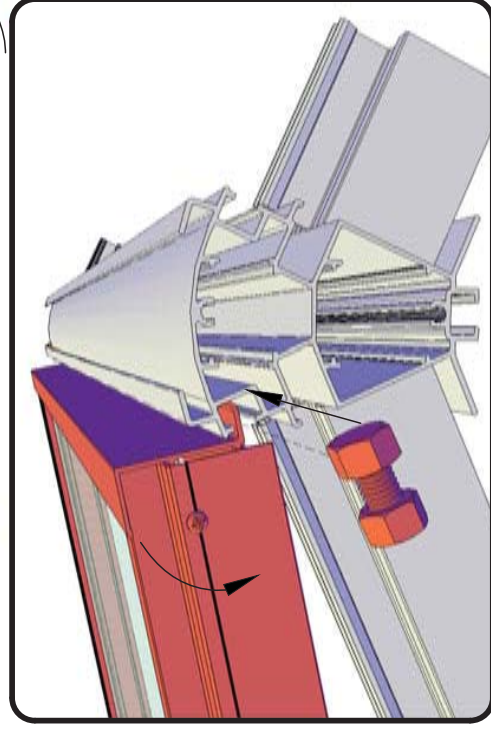
Note: Inserting a bolt/nut on both sides of the roof window will prevent it from moving side to side once it is in place.

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.

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.

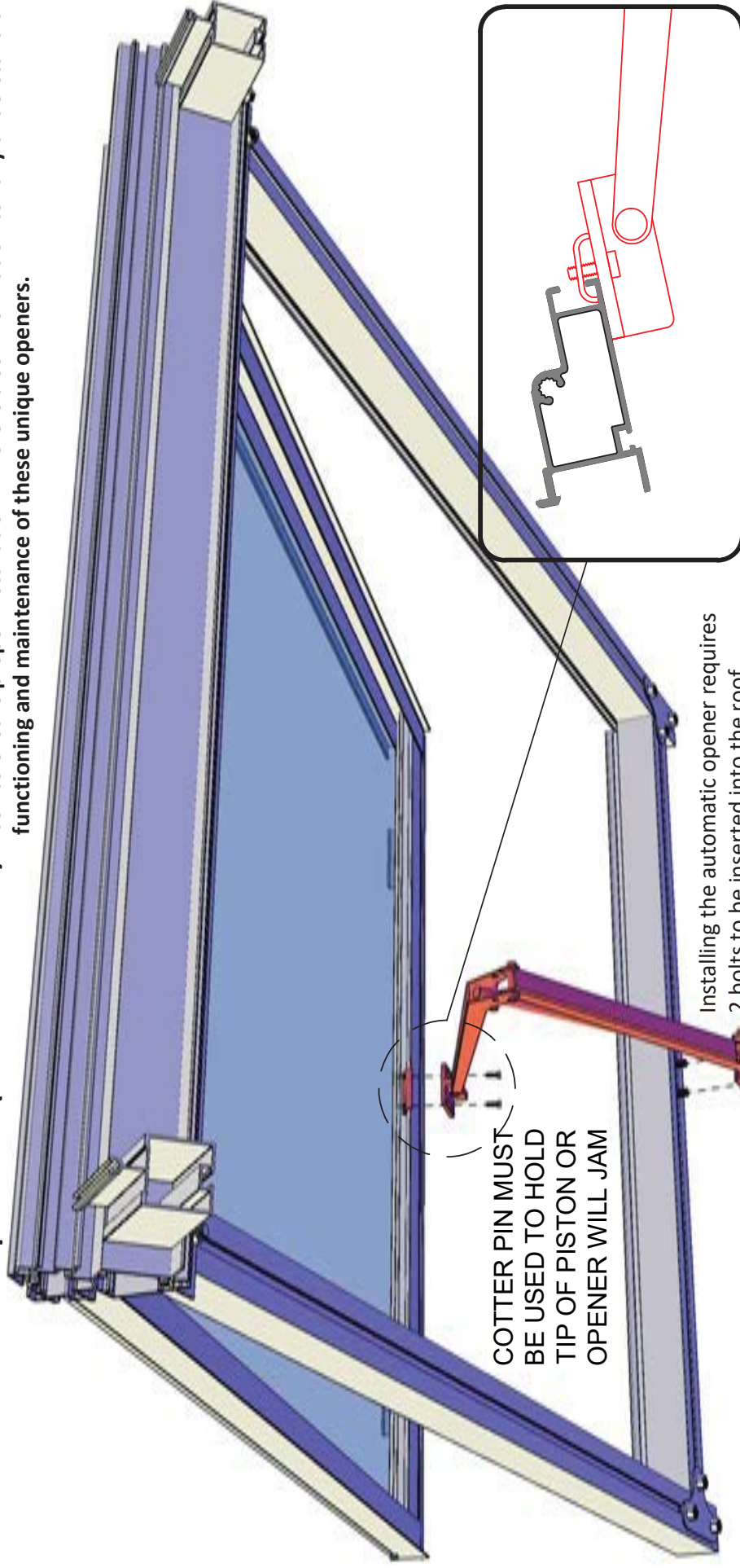
TO INSTALL: Slide window into the ridge beam from either end of the greenhouse. The "hook" on the top of the roof window profile will slide into the channel of the ridge beam (shown to the left).

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.



COTTER PIN MUST
BE USED TO HOLD
TIP OF PISTON OR
OPENER WILL JAM

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)

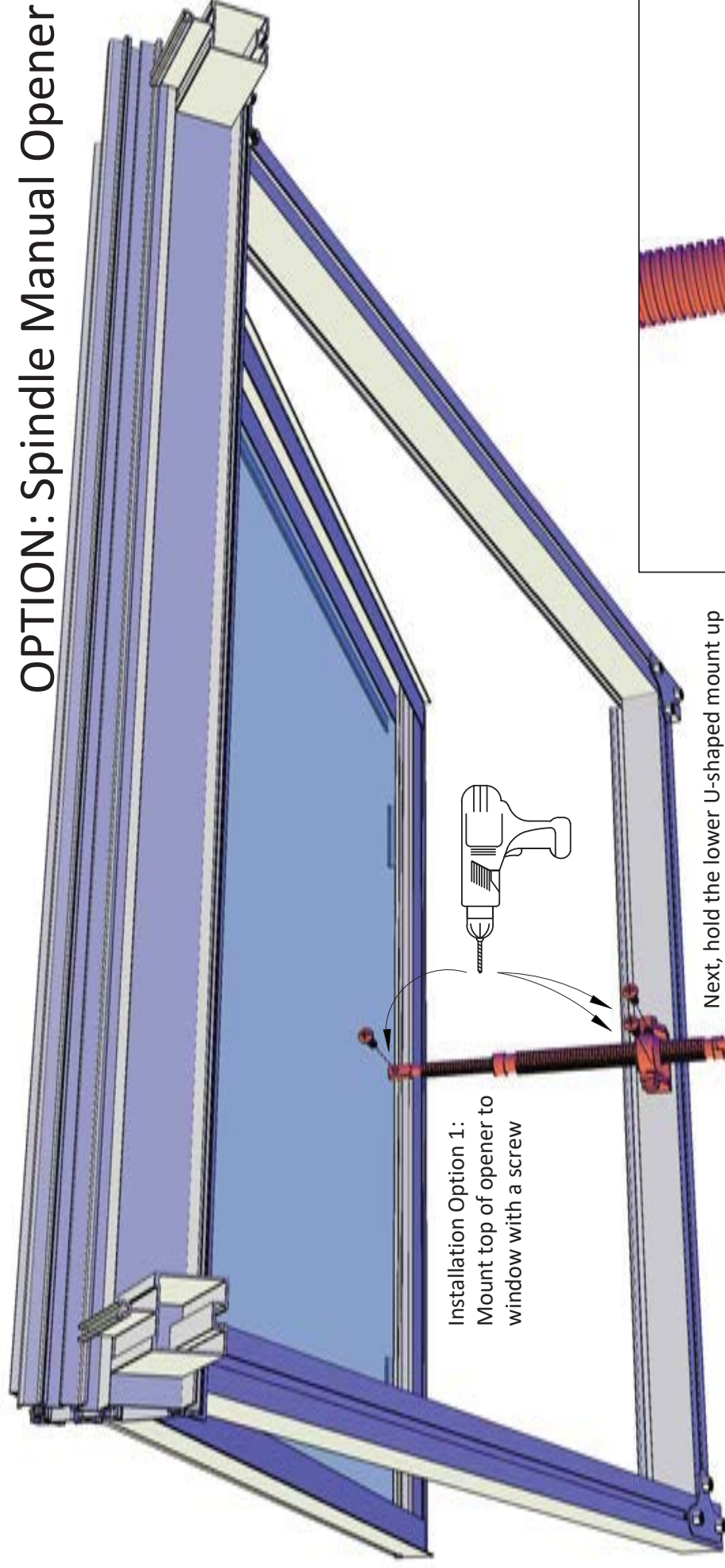
The Ventomax openers work with an oil filled piston (black cylinder). The oil begins to expand around 72 degrees and will push out and open your window when the temperature in the greenhouse is above 75 degrees (outdoor temp will likely be cooler).

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

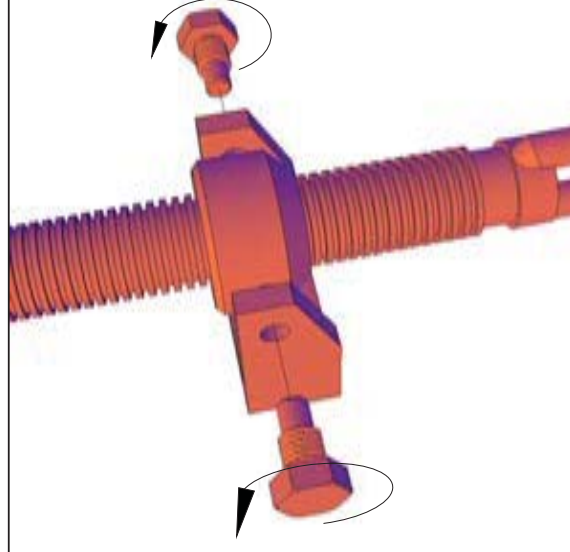


Installation Option 1:
Mount top of opener to
window with a screw

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.

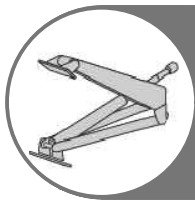


Next, hold the lower U-shaped mount up to the crossbar and mark the center of one hole. Using a 1/8" drill bit, drill the first hole, then screw the bracket on, check for level - then mark and drill the second hole. Slide the brass part of the opener over the bolt in the window channel. Use the supplied 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.

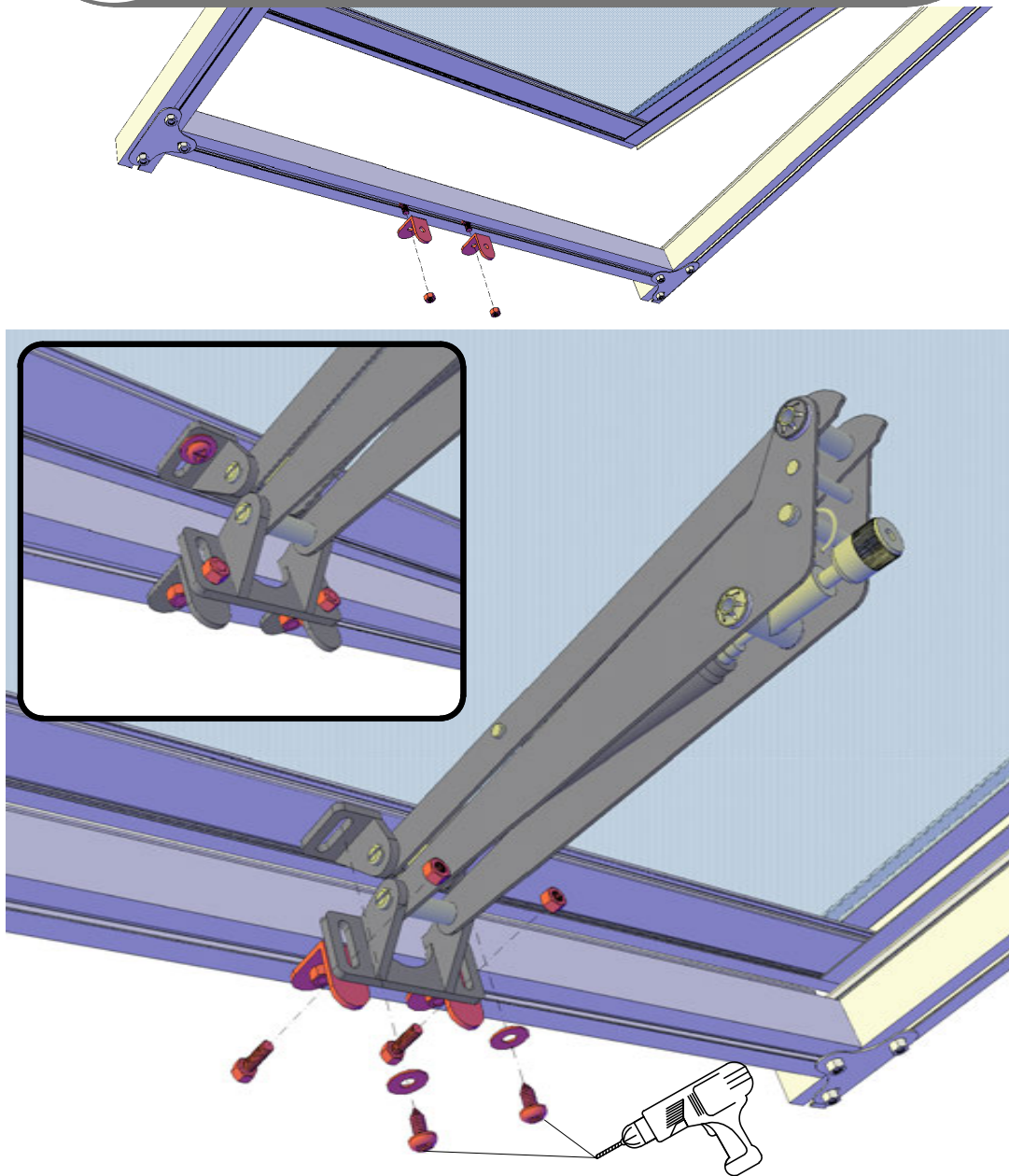


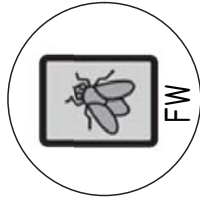
Optional Upgrade: High Wind Auto Opener

These are not included with our standard kit - please reach out to Exaco if you need additional information on ordering.

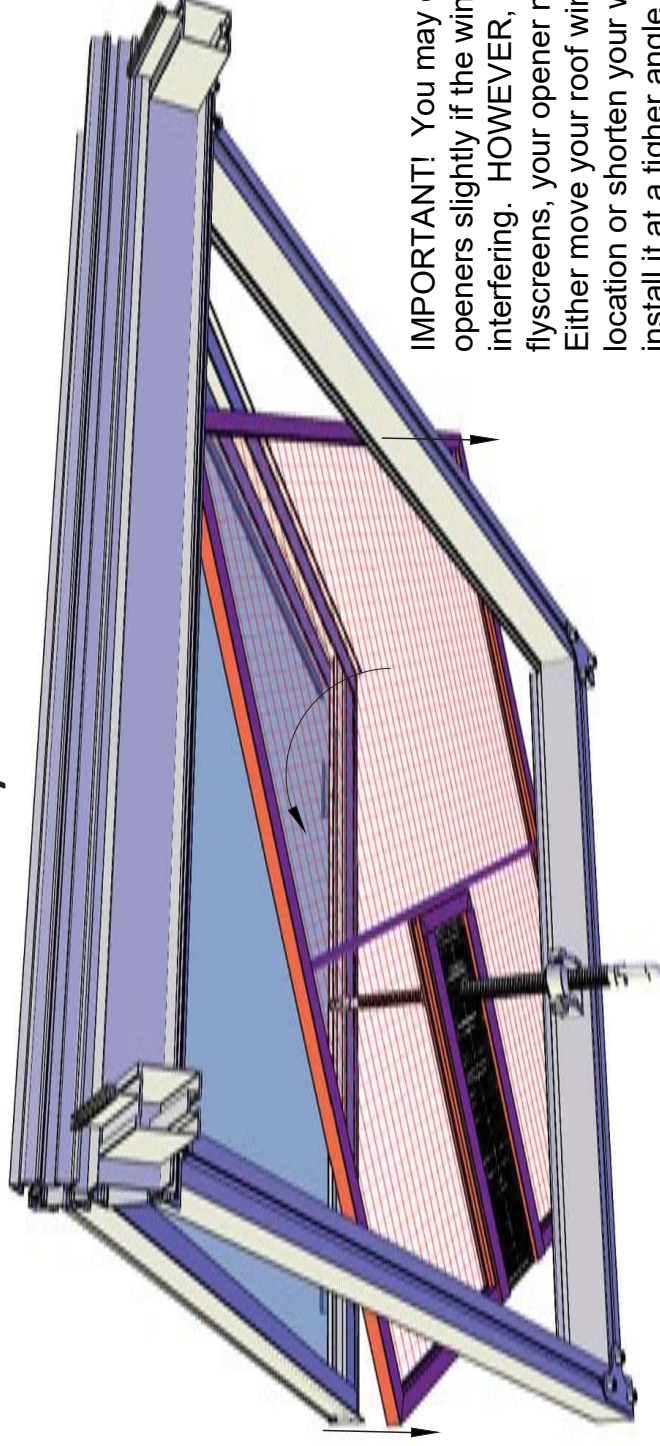


AO

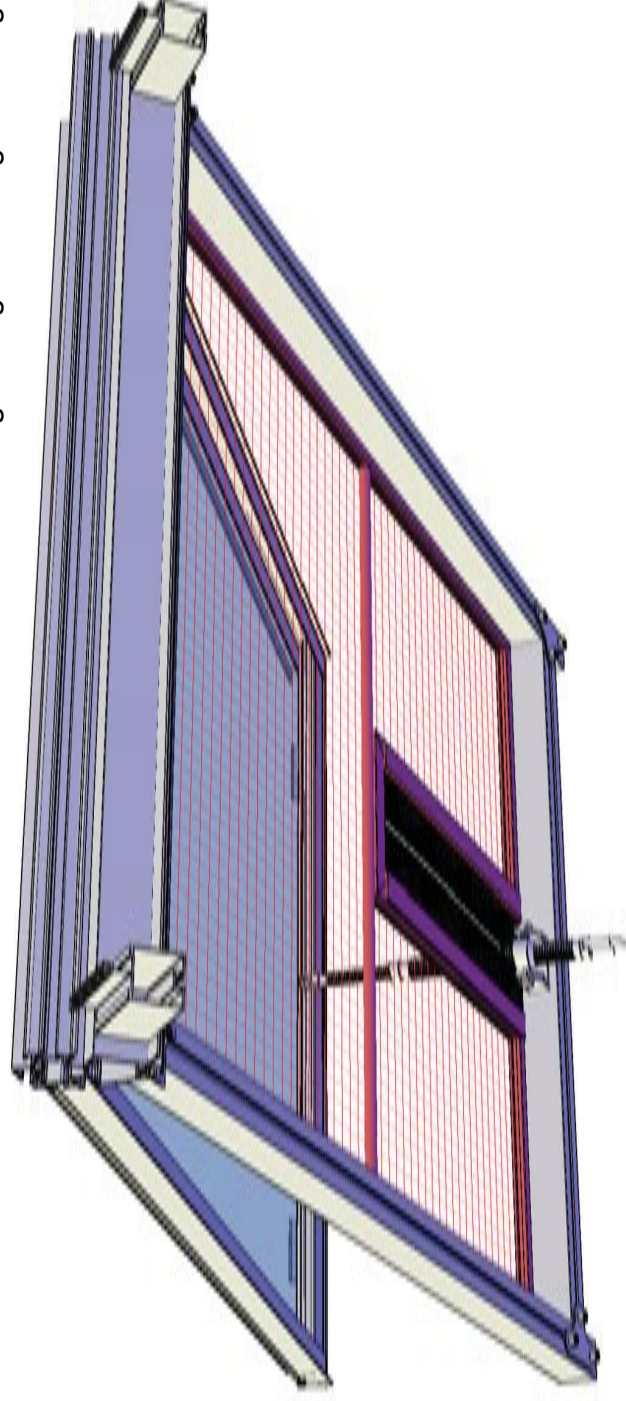




OPTIONAL UPGRADE: Fly screen for roof vent



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.





Louvre Window - All Standard Royal models include one louvred window

LV

Note: All louvered window are black (even with green models)

Numbers below refer to steps in the following pages

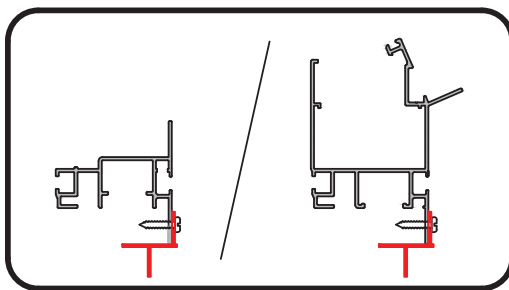


It is likely that your kit include an automatic opener (SESAM LIBERTY) for the louvre vent. Please refer to the Installation and Care manual packaged with the Sesam Liberty opener. You will need to remove the manual opener following the directions.

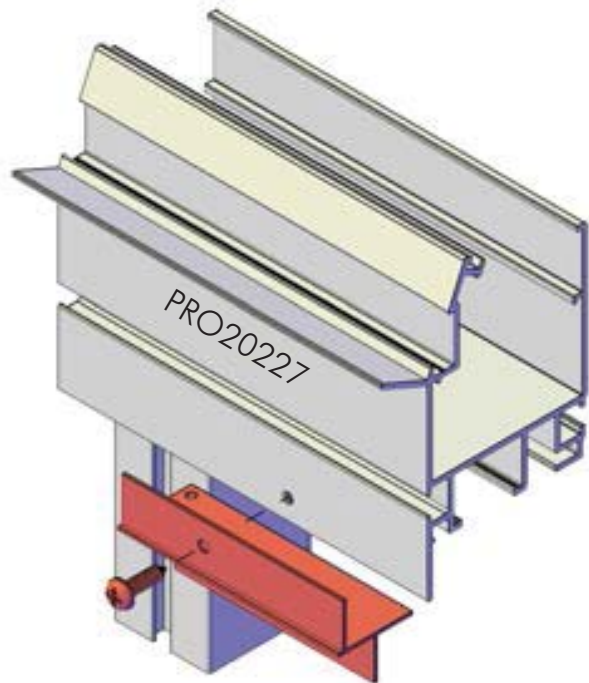
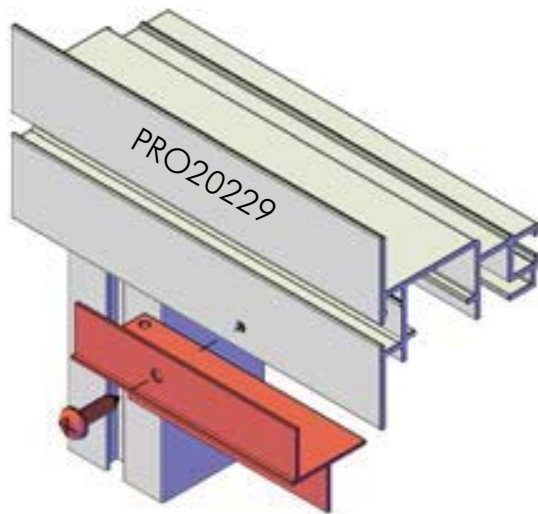
NOTE: Once the manual opener is removed, it can only be reattached with a bolt/nut - KEEP ALL PARTS.

Piston maintenance: apply a light oil (WD40 or olive oil work) to the piston rod and threading to keep it moving smoothly 2-3 times/year.

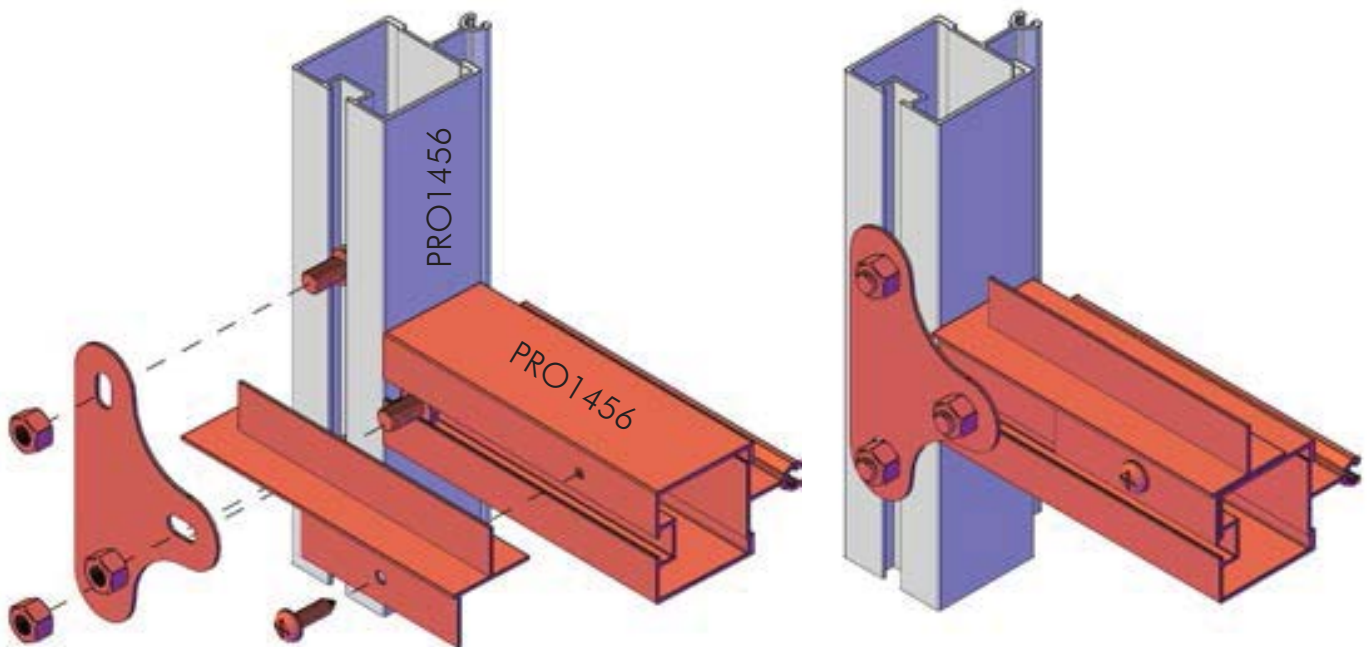
1



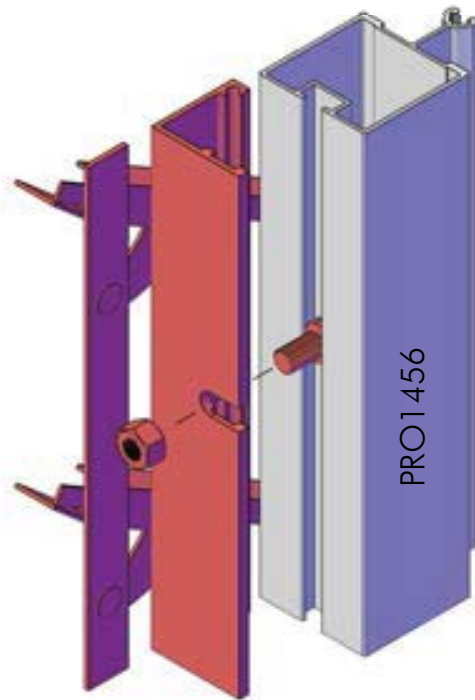
Louvred window may be installed on sidewall (under gutter profile (PRO20227)) or on gable end (under horizontal gable profile (PRO20229)). Both are shown to the left and below. Two may be placed side by side but they must keep manual openers.



2



3

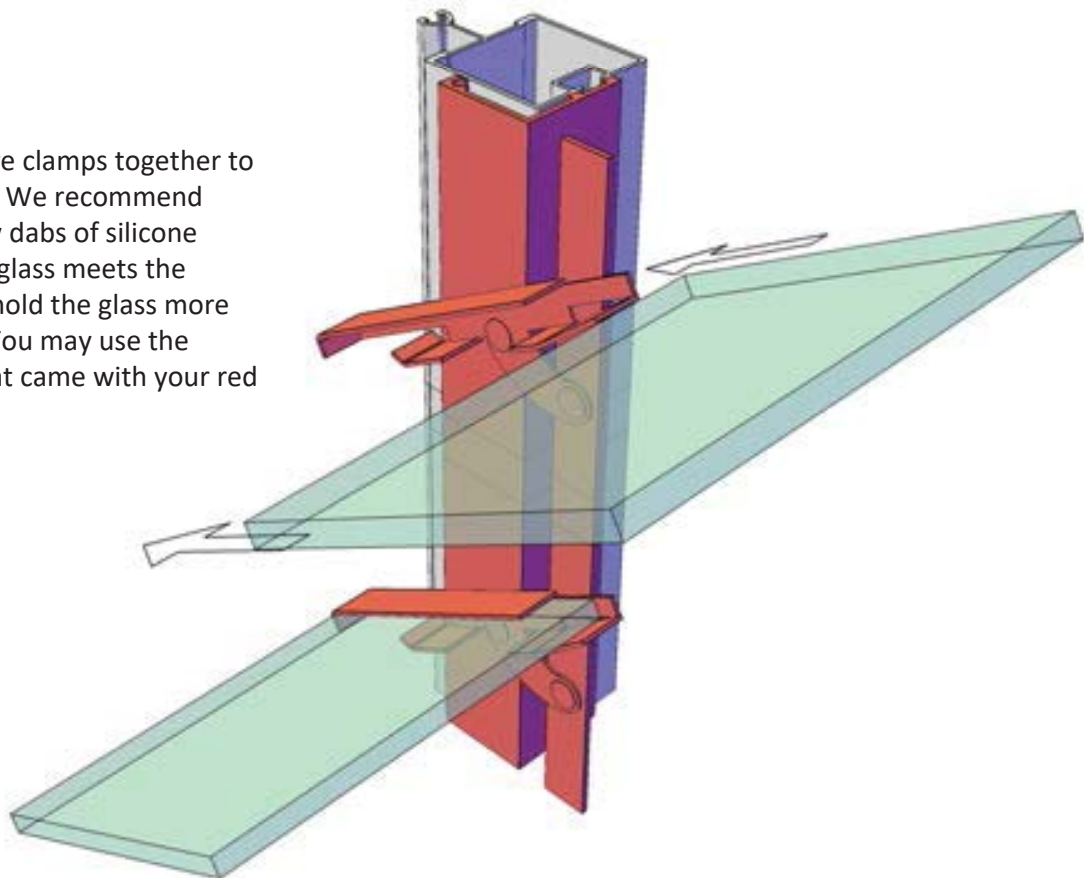


Insert a washer (not included) between black louvre frame and the greenhouse profile at all four bolt locations.

4X

4

Pinch louvre clamps together to hold glass. We recommend using a few dabs of silicone where the glass meets the clamps to hold the glass more securely. You may use the silicone that came with your red shims.



Louver Window Cover

During cold weather, the louvered window may get drafty. Your kit includes a lexan cover to seal the louvers during this time.

To install the Lexan panel:

- Unscrew the piston from your auto opener
- Go outside the greenhouse and pull back the heavy duty rubber gaskets that hold in the panes of glass to the left, right, and bottom of the louvered window (see picture to the right)
- Place the lexan panel over the louvers as though it were a pane of glass and replace all the heavy duty gaskets (see photos below)

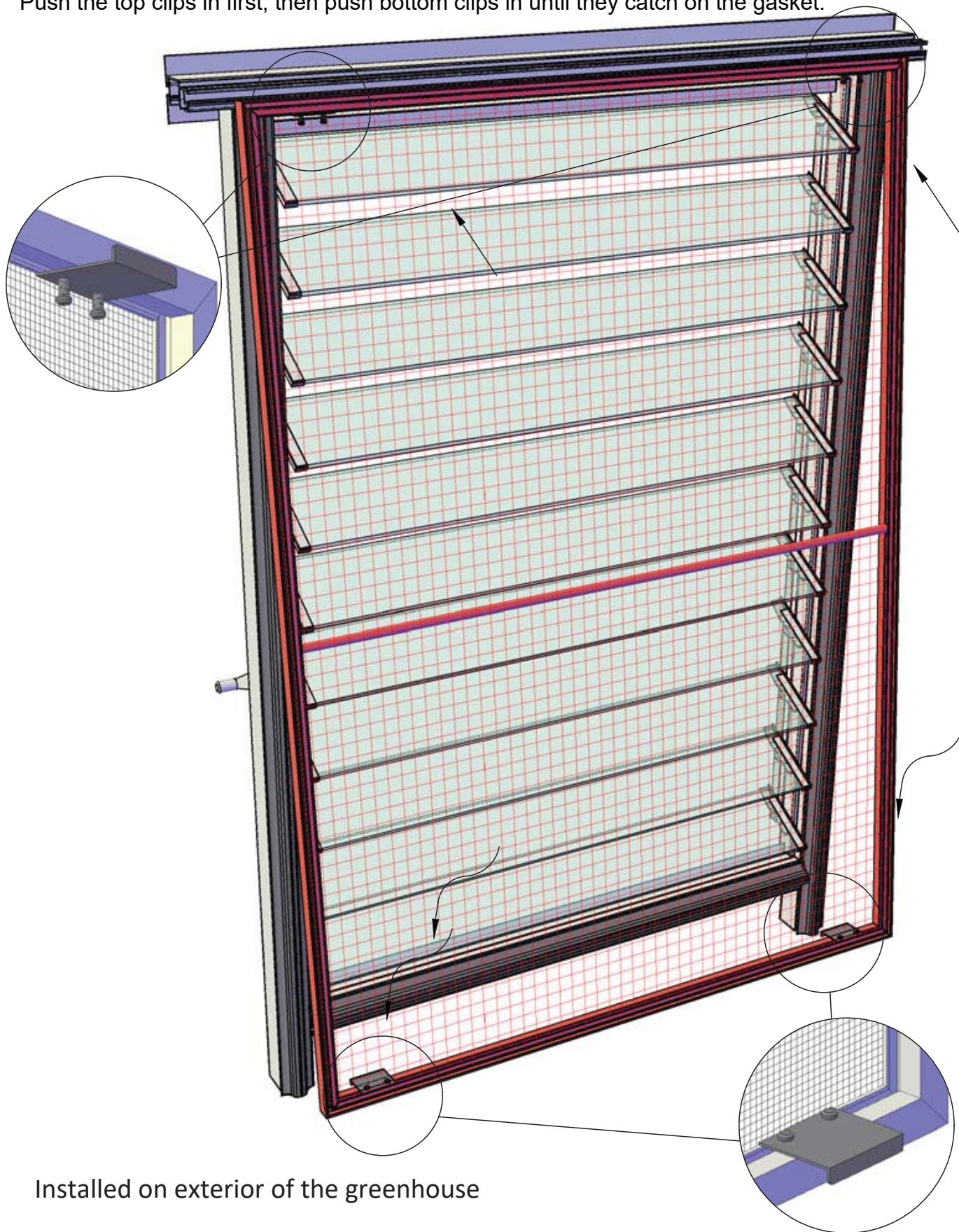




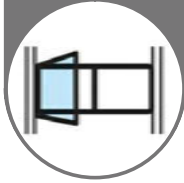
OPTIONAL UPGRADE: Louvered Window Fly Screen

FLV

One set of clips on the screen are spring-loaded. These spring loaded clips go at the top. Push the top clips in first, then push bottom clips in until they catch on the gasket.

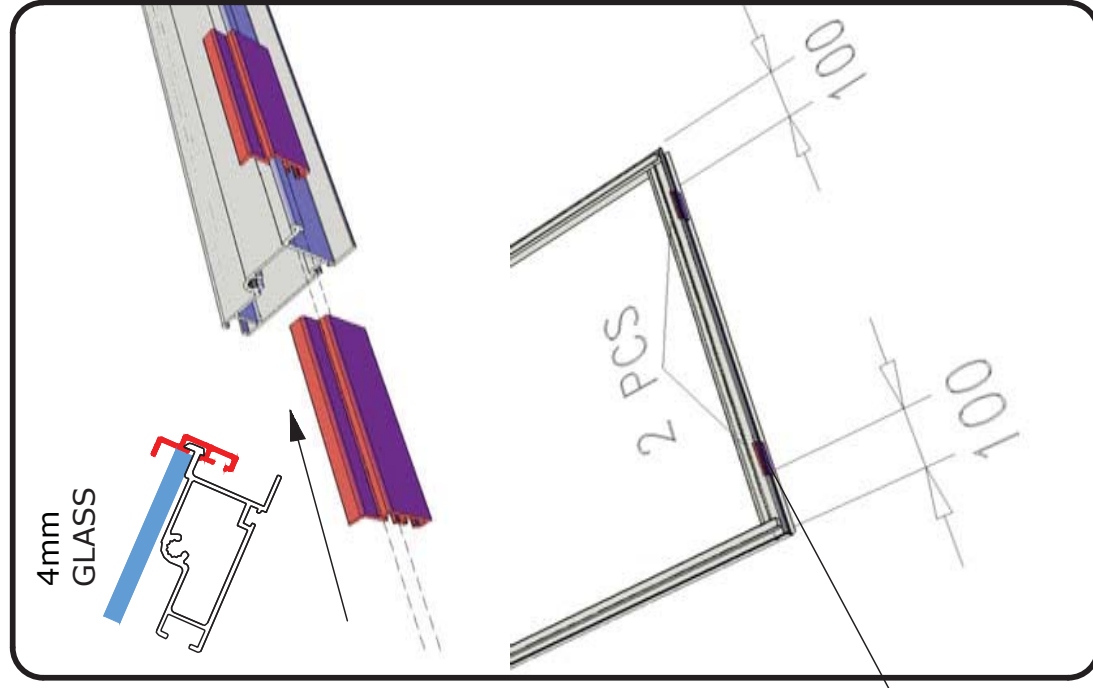
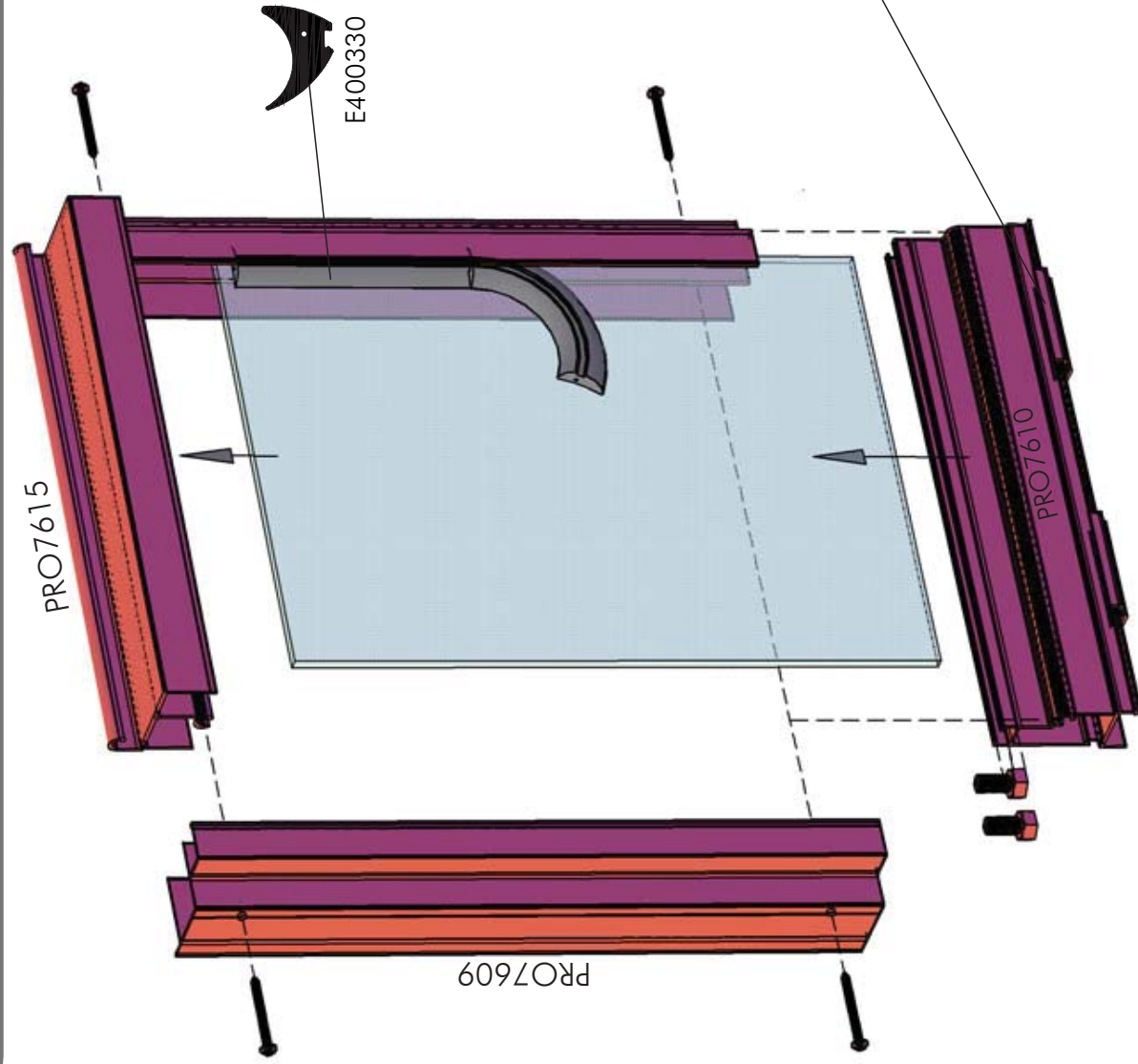


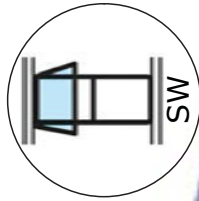
Installed on exterior of the greenhouse



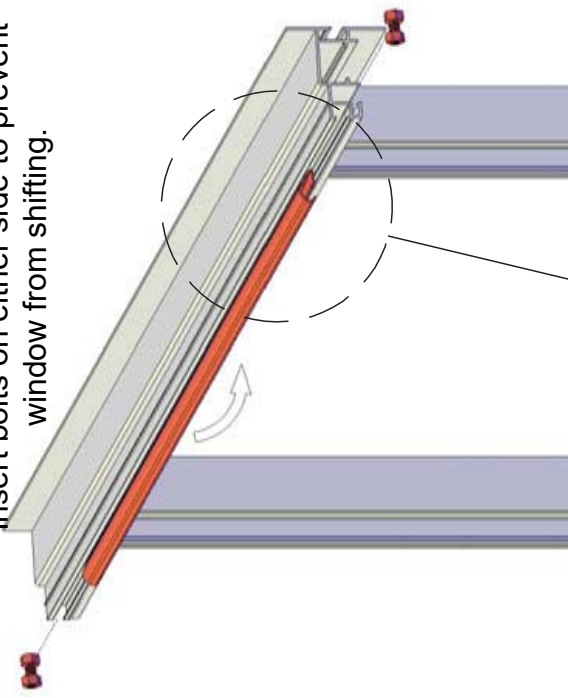
OPTIONAL UPGRADE: Push out window -
only Retro Victorians include this option

SW



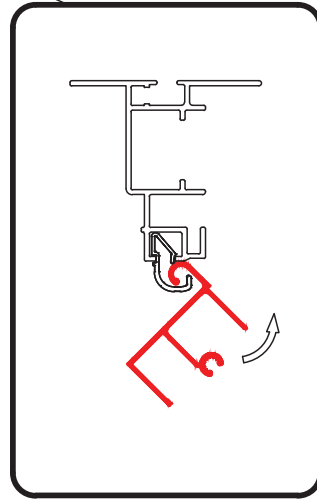
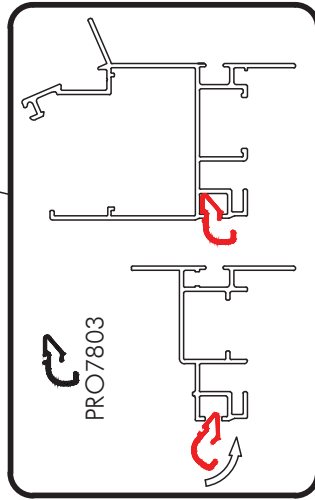


Insert bolts on either side to prevent window from shifting.

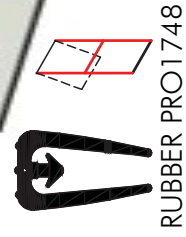


066

PRO1456

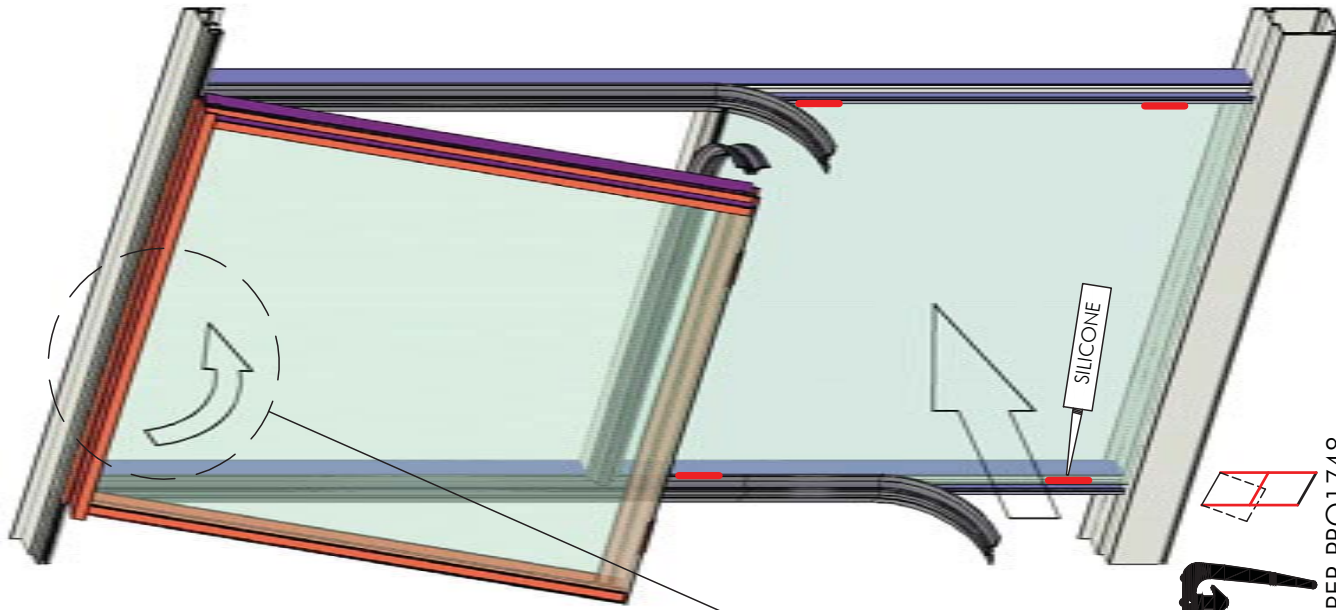


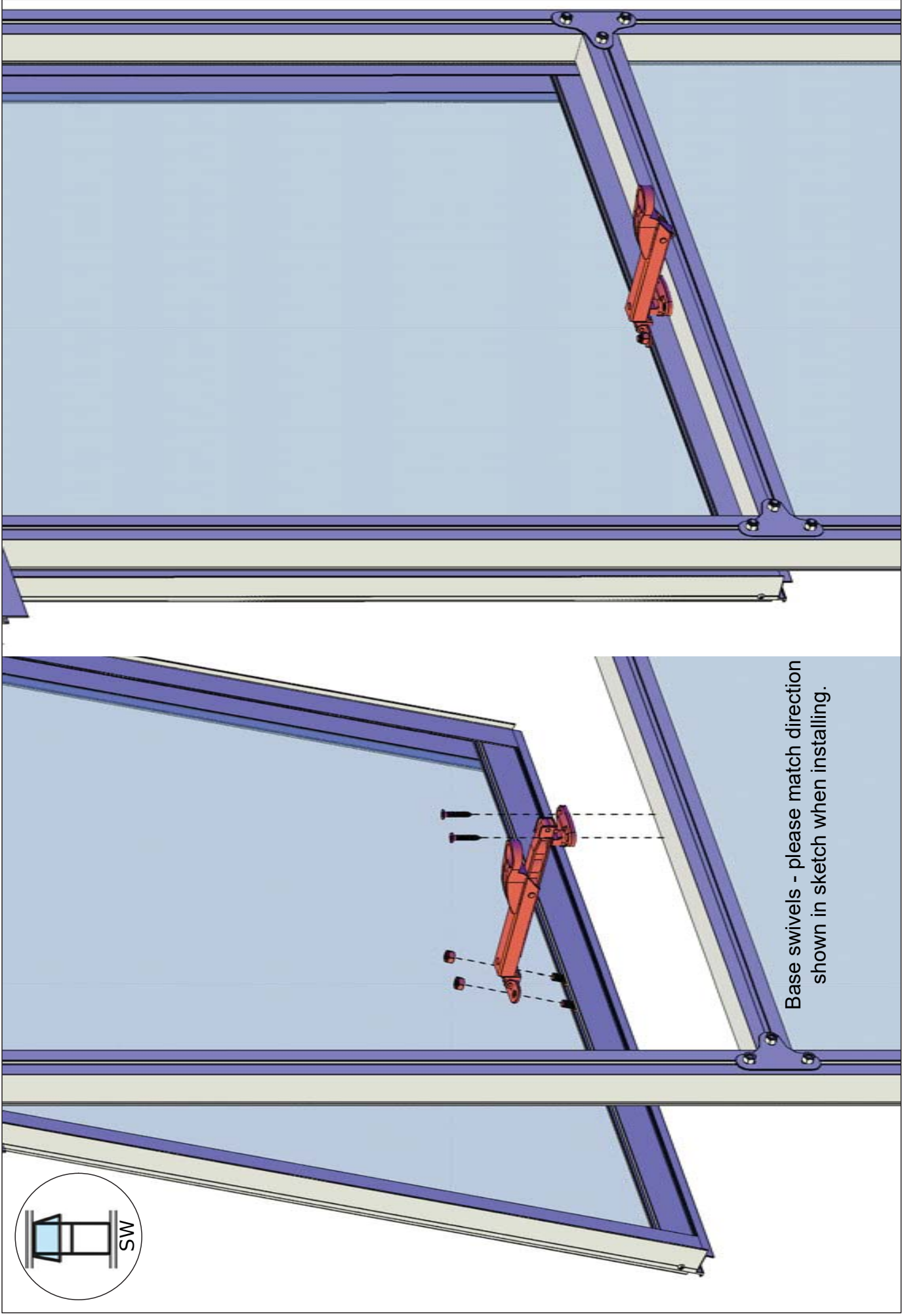
Slide window from end of PRO7803 to install



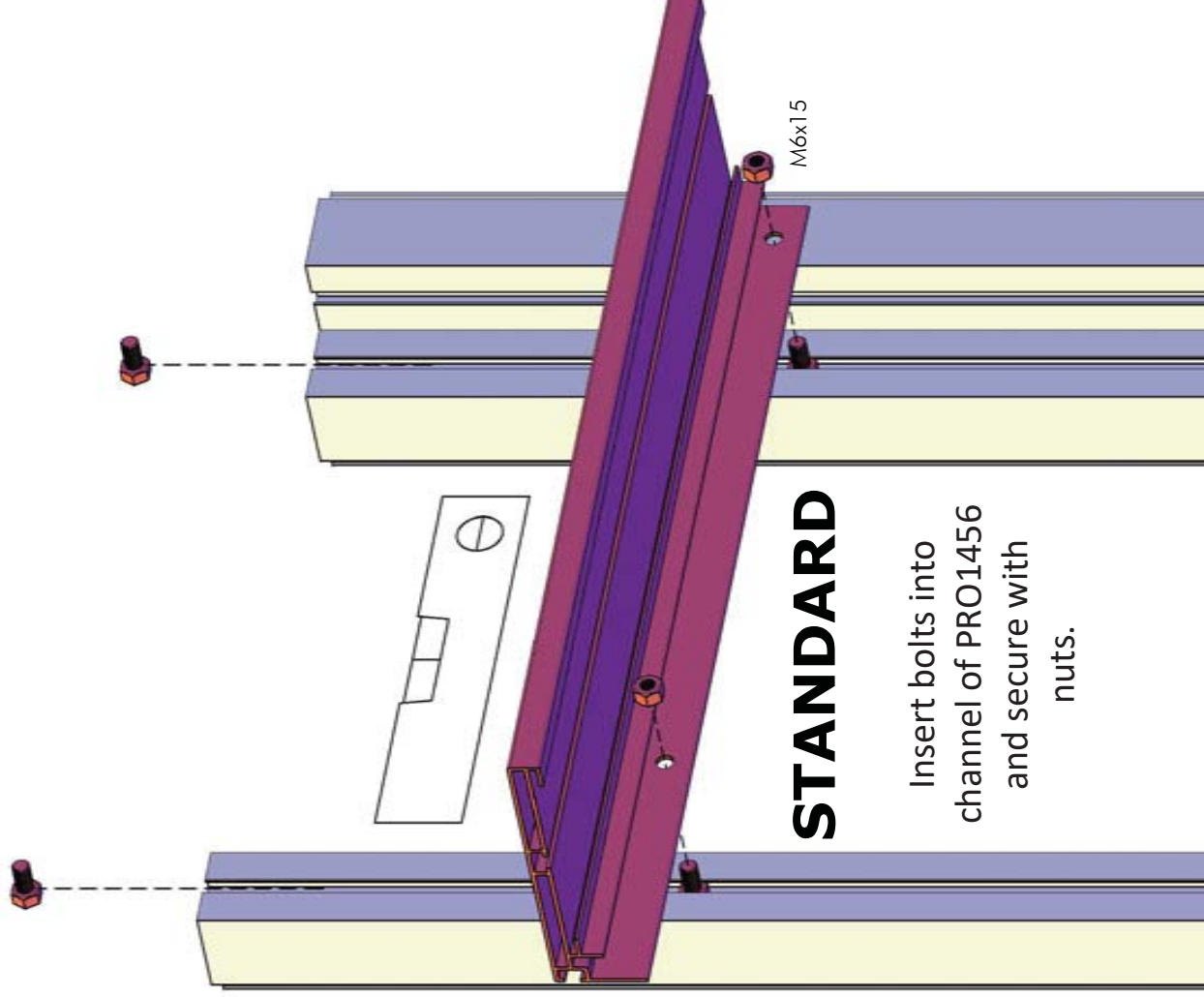
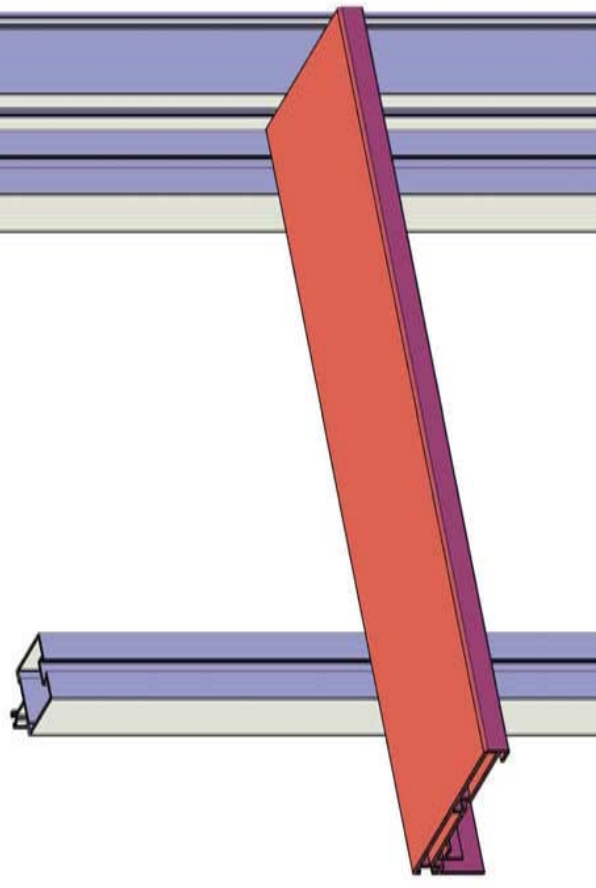
RUBBER PRO1748

SILICONE



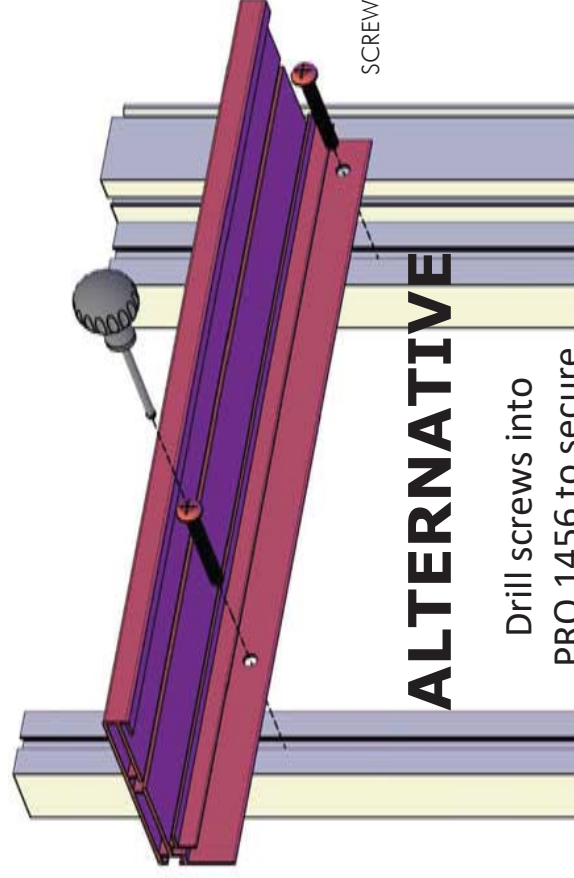


OPTION: Narrow Top Shelf - please check your order to see if this is included



STANDARD

Insert bolts into
channel of PRO1456
and secure with
nuts.

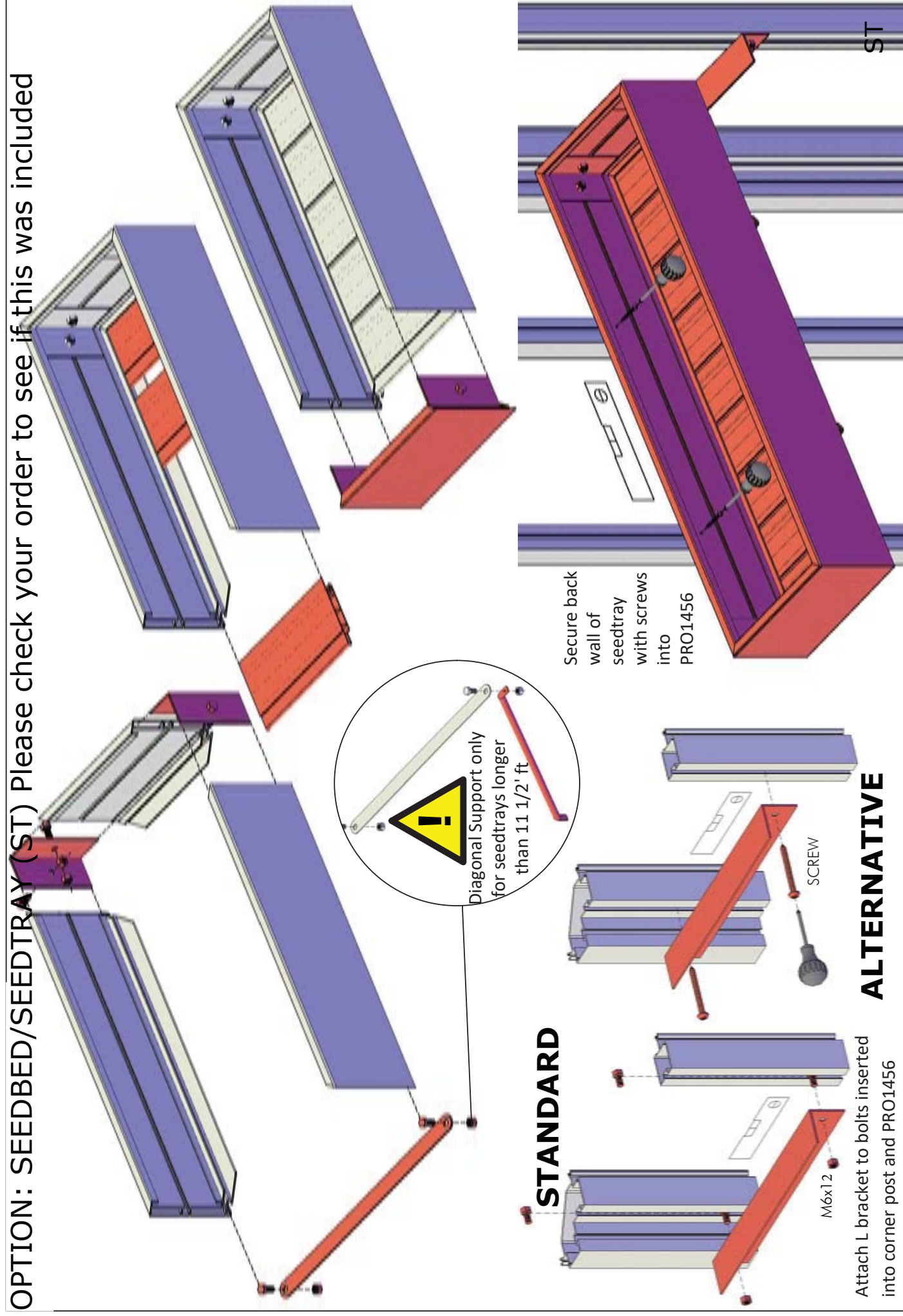


ALTERNATIVE

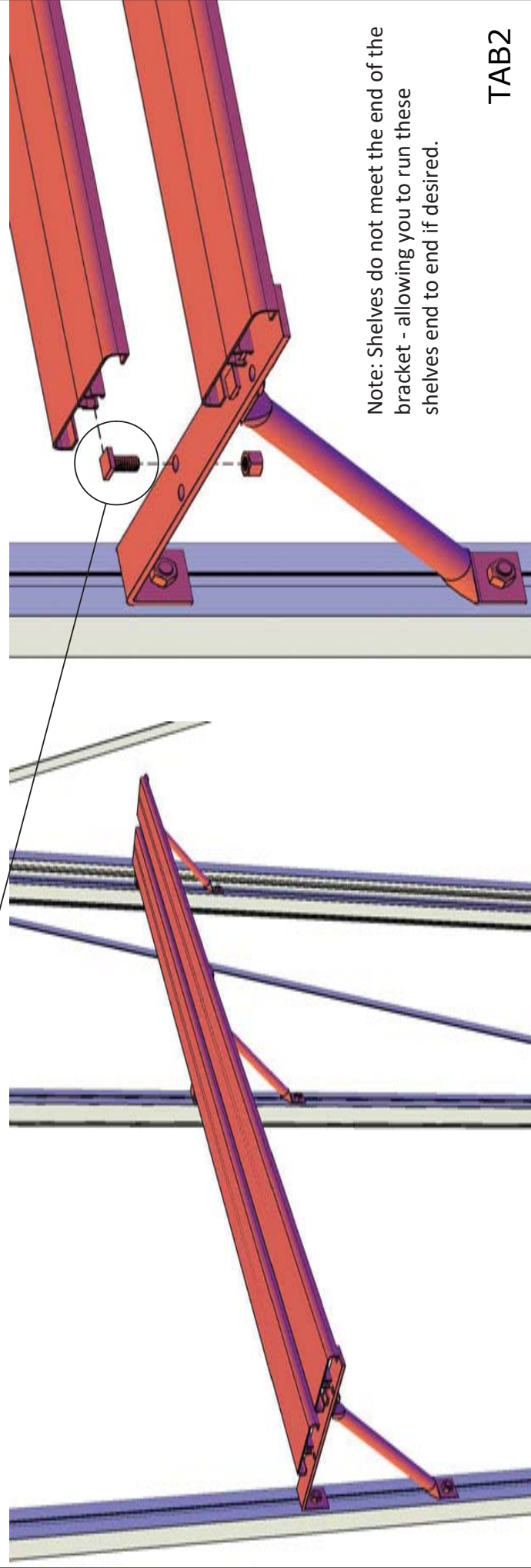
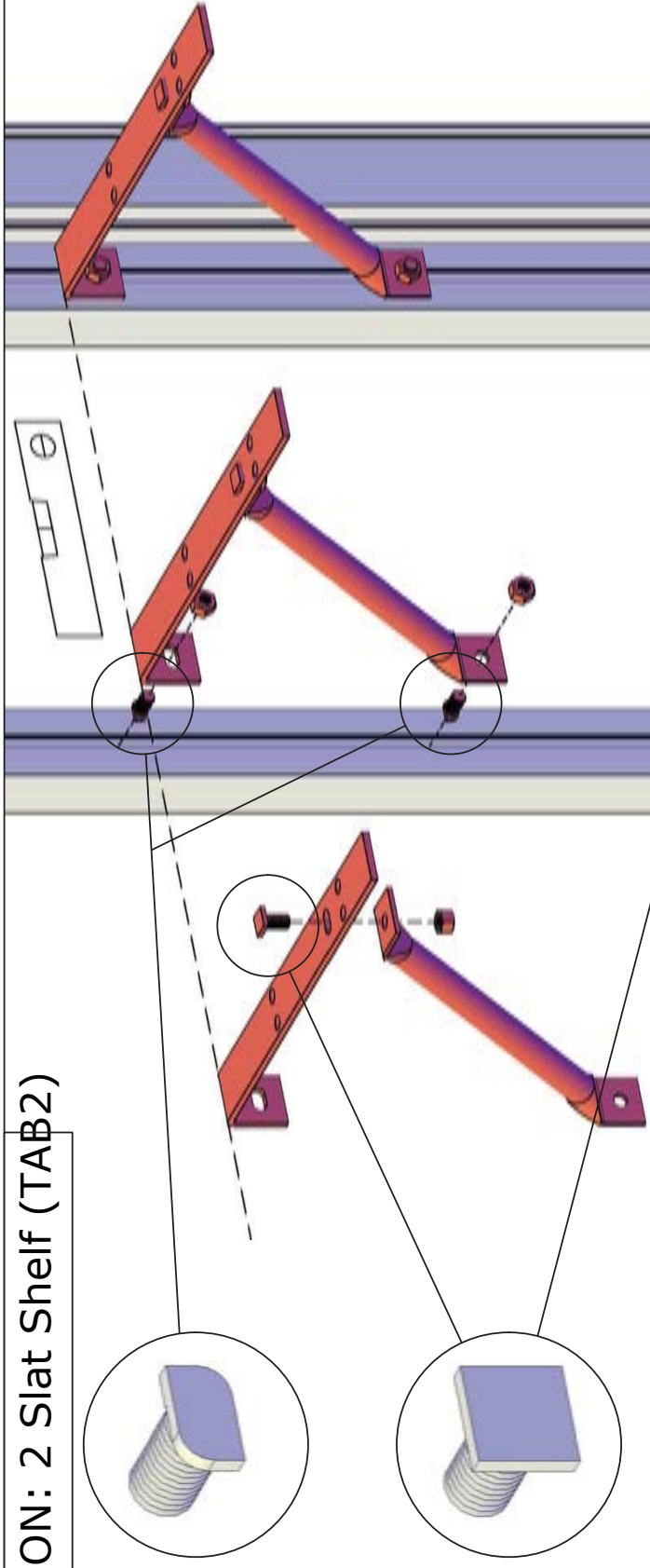
Drill screws into
PRO 1456 to secure

SH

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



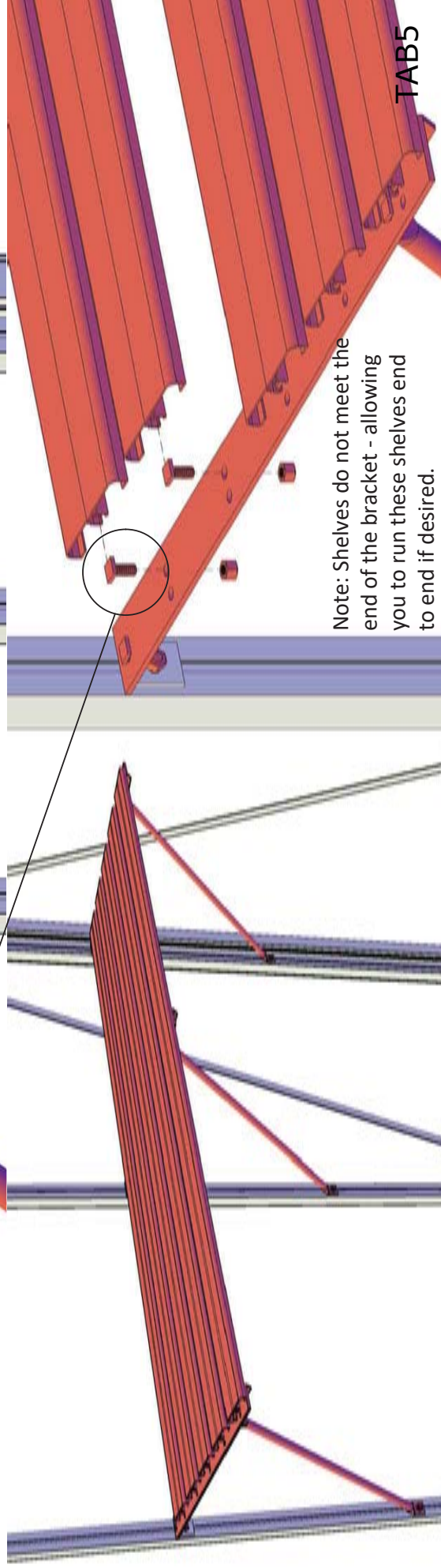
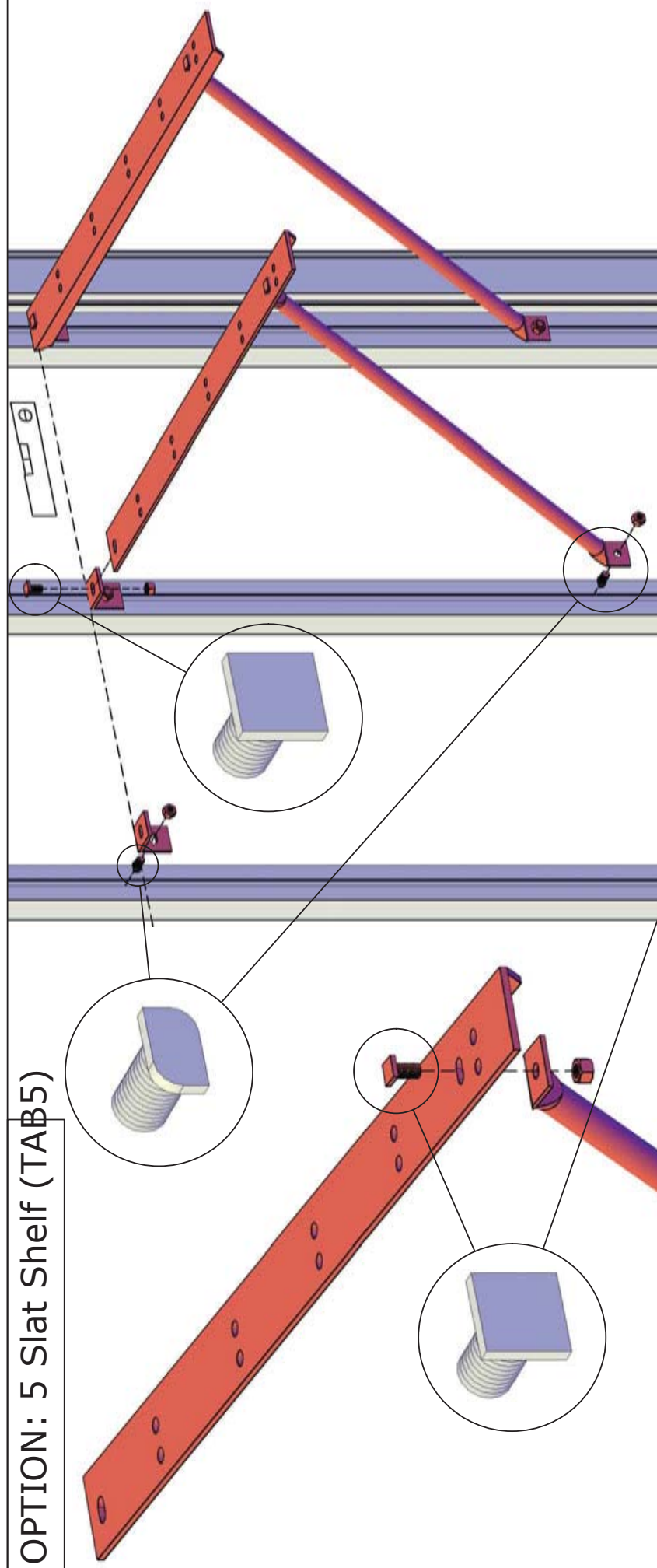
OPTION: 2 Slat Shelf (TAB2)



Note: Shelves do not meet the end of the bracket - allowing you to run these shelves end to end if desired.

TAB2

OPTION: 5 Slat Shelf (TAB5)



Note: Shelves do not meet the end of the bracket - allowing you to run these shelves end to end if desired.

TAB5

Additional Useful Accessories for Victorian Greenhouses:



Hinged Door Stop/Catch - you should receive these with your hinged door unless you have the auto closer. They are also available for purchase.



Magnetic Hinged Door Stop - These work great for greenhouses on knee walls that extend beyond the base of the greenhouse and hold the door in a nearly 90 degree opening.



Turnbuckle Reinforcement connector
- Attaches to the rafters to add support to areas with heavy snow loads. Available in black or green.

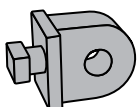


Metal Plant Hooks - Stainless Steel with a 2 3/4" J hook. They install in the channels with a T bolt. Come in a pack of 5.



T bolts - These are perfect if you've forgotten to add a bolt or if you want to add something later. Not recommended to attach structural items.

TWIST_EYE



x50

Twist Eyes - inserts easily into the channel. Good for growing wire, supports, or attaching insulating "bubble wrap". Black plastic. Sold in bags of 50.



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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