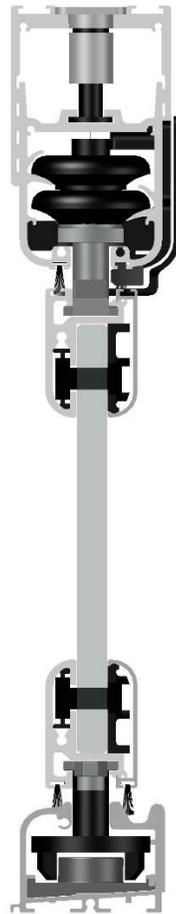




Glass Technical Systems S.L.

# *Clear View*

Installation Manual



# 1: System Features

- 1: Usable glass thickness 8,10 and 12mm.
- 2: Adjustment of 9.5mm up and 10mm down.
- 3: Exit gate without opening arm.
- 4: Anti jam wheel system.
- 5: Re-enforced stainless-steel wheel stems.
- 6: Three bearings per top wheel unit.
- 7: Aluminum end profiles with cups to receive panels.
- 8: Male to female end caps for weatherproofing.
- 9: Bottom profile gutters.
- 10: Exit hole cover plate.
- 11: Glass bolted to profiles.
- 12: Sunken profile available.
- 13: Able to move panels around corners.

# 2: Tools Needed

- 1: Good level preferable laser self-levelling.
- 2: Hammer drill with masonry bit for long screws.
- 3: Battery drill.
- 4: Philips PH1 screwdriver.
- 5: 5mm T-bar Alan key.
- 6: 3mm Alan key.
- 7: Silicone gun.
- 8: Angle grinder.

### 3: Materials Needed

- 1: Fixings, self-tapping concrete screws or sleeved bolts with torque head.
- 2: Packers of different sizes for levelling profiles.
- 3: Various other small screws for fixing end profiles.
- 4: Silicone for finishing.
- 5: Silicone spry recommended for the wheels.

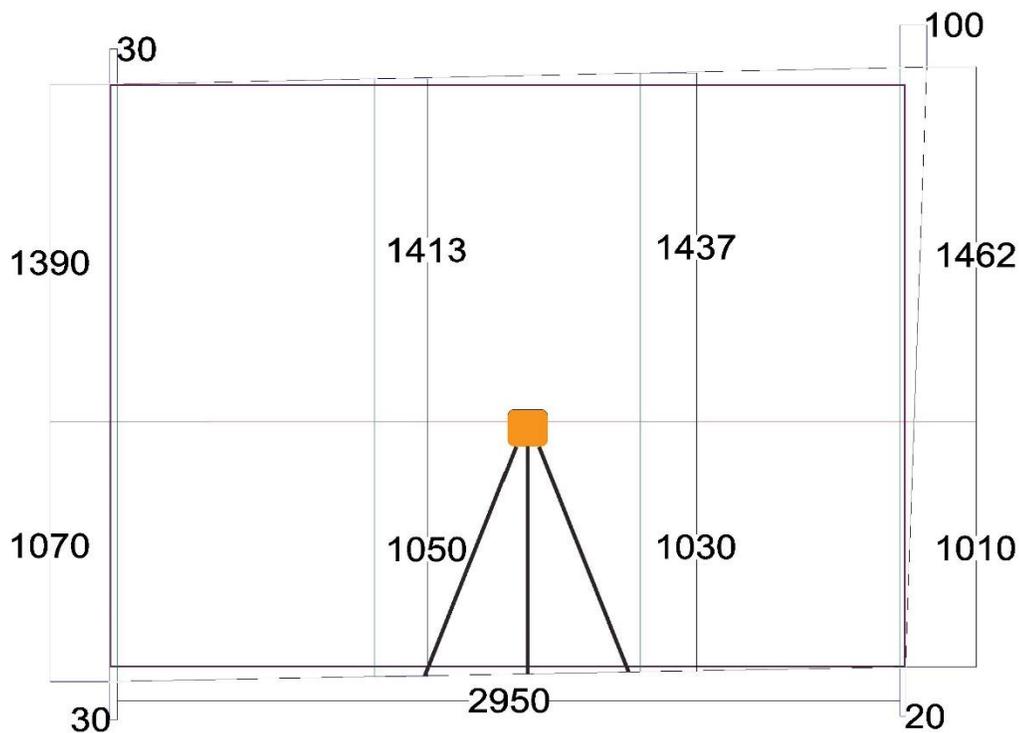
## 4: Measuring for the unit

Taking correct measurements is a vital part of a trouble free and easy installation.

It is best to use a self-levelling laser when possible to take up and down measurements, you need the lowest point of the ceiling and highest of the floor, also the do the same with the walls on a vertical basis where possible.

The purple lines represent the finished unit.

See diagram below.



width  $30+20+2950=3000$

Height  $1010+1390=2400$

**Important:** If using sunken track see notes 5.3

## 5.1 Installation of Profiles

The glass curtain unit has to be installed level no matter how far out of level the floor ceiling or walls maybe for the system to work at its best.

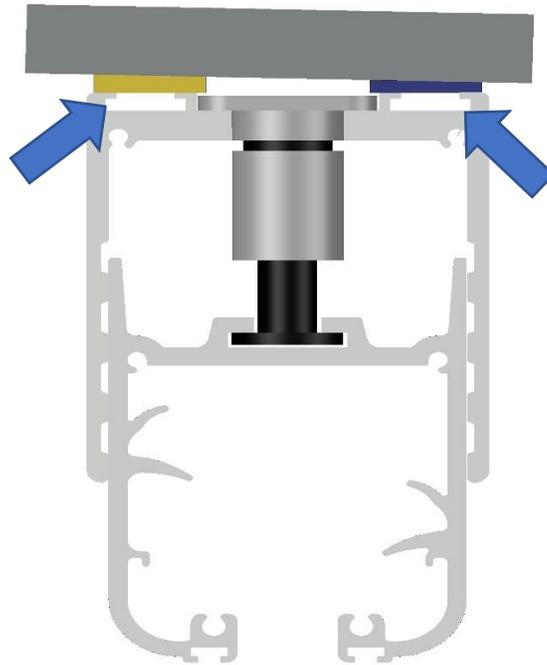
Start by marking a centre line on the floor where you want the glass curtain track to be, (for sunken track see 5.2), make sure that you have the correct distances from the walls to insert the end box sections in a vertical position usually 20mm. Now also mark on the floor with a pencil the ends of the profile for reference.

Take a measurement on the top profile from the end cap at the door end to the centre of the fixing hole near the exit gate usually the 3<sup>rd</sup> or 4<sup>th</sup> elongated fixing hole depending how many panels in the unit, then mark it on the floor on the centre line measuring from the pencil line you made marking the end of the bottom profile where the door opens.

With a self-levelling laser on tripod or stand line up you first hole that you have marked on the floor, this will give you your first fixing hole on the ceiling, mark it and drill it. If you don't have a laser you can use a bubble level and a straight profile in X and Y axis to create your point but this is not so accurate.

Lift up the profile and screw it up to the ceiling loosely through the hole that you measured to, one fixing is normally enough to hold the profile safely if the fixing hole was good.

Now line the top profile in position at the far end using the laser on the bottom line marked on the floor and aligning it up with the centre mark in the top profile then drill and fix loosely, using packers level up the top profile in both X and Y axis the best you can before screwing tight, this can be a little time consuming but makes the adjustment easier later on.

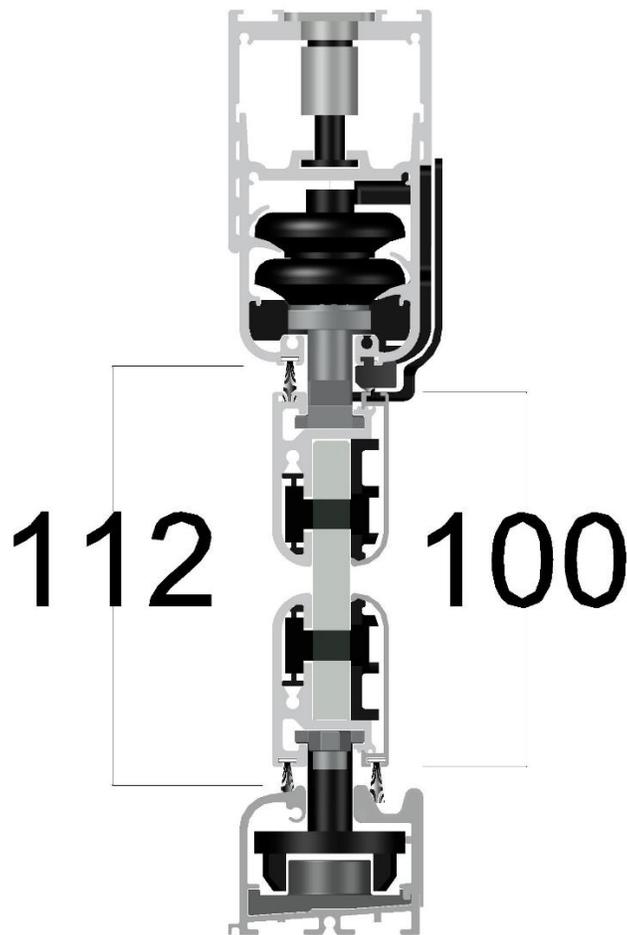


By using the laser to line up the profiles with the centre lines in the profiles rather than your first centre line on the floor, this will ensure that the profiles are directly over one another, there may have been some movement whilst fitting the top profile drilling and fixing.

Find your highest level of the floor then fix the profile, place the laser on top of the profile and level out the bottom profile at the end and middle then fix in position.

You only need to fix in a couple positions because may need adjustment at a later stage of the installation to leave the correct space between bottom profile and panel.

Now take a measurement of the finished glass panel from top to bottom, plus 12mm onto that measurement and this will give you the between profile measurements as illustrated in the example below.



Using this measurement, set up the top profile by adjusting where necessary to the correct distance with the 5mm Alan T-bar, measuring at the adjustment screw area from the top of the bottom profile to the underside of the top profile as picture in previous page, do this for every adjustment screw, this process will allow the panels to be inserted with ease. Now you are set to insert the glass panels.

## 5.2 Sunken Track

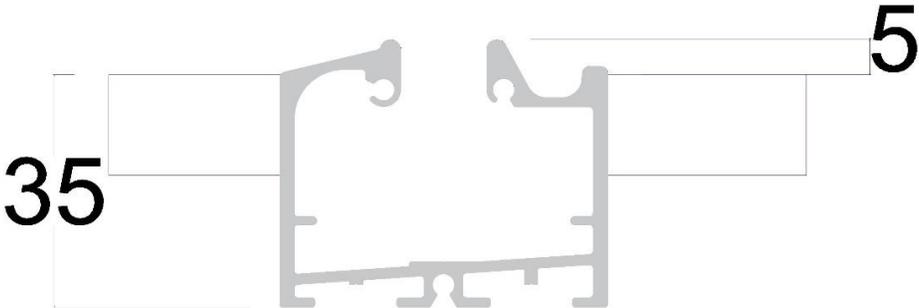
With sunken track the process is the same for lining up the profiles, instead of when the top and bottom are lined up screwing down the track draw around the track, then with a disc cutter cut along the lines to the desired depth of 35mm for the profile.

IMPORTANT: you may not have to cut the whole depth of the track all the way depending on the levels see example in the example below.



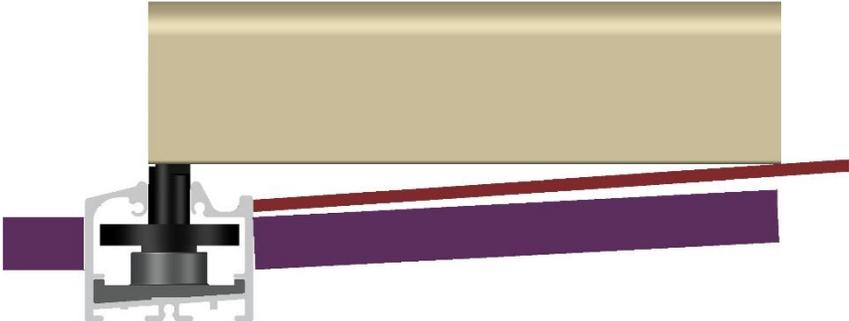
In the example on the previous page the left will be sunk into the floor 35mm and the right less because of the level of the floor.

The picture below shows the cross section of the bottom profile and where to take the floor to for the sunken profile.



5.3

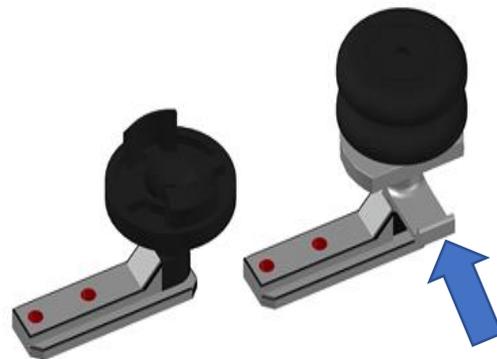
IMPORTANT: If where the point of the door opens to is higher than the corner of the sunken profile then the profile needs to be raised so the door doesn't touch the floor, this is also important when taking measurements. see example below. Red line shows how the panel will jam because of the dis-level of the floor. This also needs to be taken into consideration when measuring.



## 6.1: Installation of the panels

If you are using surface mounted track follow these instructions if you have sunken track refer to 6.2

First of all, remove the exit gates from the top and bottom profiles, insert the end profile for the door and fix it as described in 1.1: then lift the door panel into the profiles inserting the door wheel and bottom wheel first, parts shown right.



Make sure the plastic tab is facing the opposite way to the exit hole shown here by the arrow, then slide the door down to the opening position keeping the door traveling parallel with the profiles, when reached the opening position keeping the door pushed into position, open the door, this will now allow you to turn the plastic tab into the middle of the profile thus locking it in position.

Then do the same with panel two but first enter the exit wheel and the nipple shown in the picture below.

Slide the panel down the track in the opposite direction of the door until the turning hinge wheel enters the opening hole, then reverse direction until reached the opening position, keeping the panel pushed towards end of the profile to ensure the hinge wheel is hard up against the previous wheel and in the correct position, then open the panel, apply this action with all the panels.



When they are all in refit the opening gates.

## 6.2: Sunken Track

The sunken track is slightly more difficult to install the panels.

The opening hole will be in position for glass two.

Remove the top plastic opening gate(s).

Select your last panel, then first place the bottom wheel in the hole, move the panel along the track lifting slightly so not to damage the fur strip, when the exit wheel reaches the exit hole insert the wheel, the panel will tilt slightly, move it along until the hinge wheel reaches the hole and insert that then the panel should come straight again.

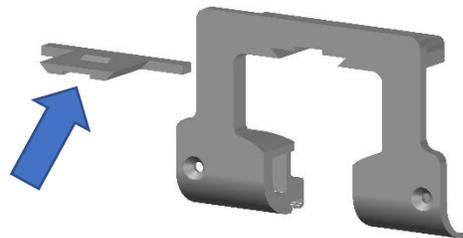
Slide panel to the far end and select the second to last panel and repeat the process until all the panels are installed leaving the door to last.

Door installation is the same but you only have to put the hinge wheel in, remembering to keep the tab in the opposite direction than the opening hole, see 6.1 for the door instructions.

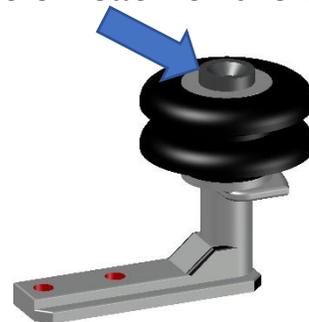
Refit the exit gate(s).

## 7: Exit Gates

If there is more than one exit gate you will need to remove this small piece from the first exit gate only by inserting a small screwdriver in the slit Infront, this will unclip the piece enabling it to be pushed out as shown here.

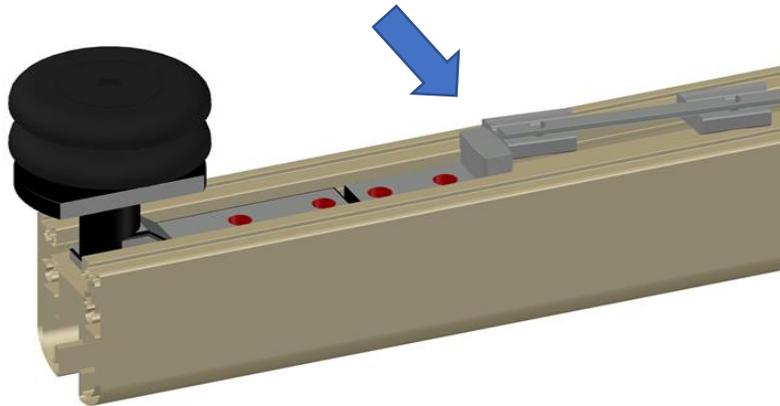


Then you will need to screw a small disc on each of the exit wheels that will come out of the first exit hole. This should prevent the panels that are to come out of the first exit hole coming out of the second and jamming up the system.



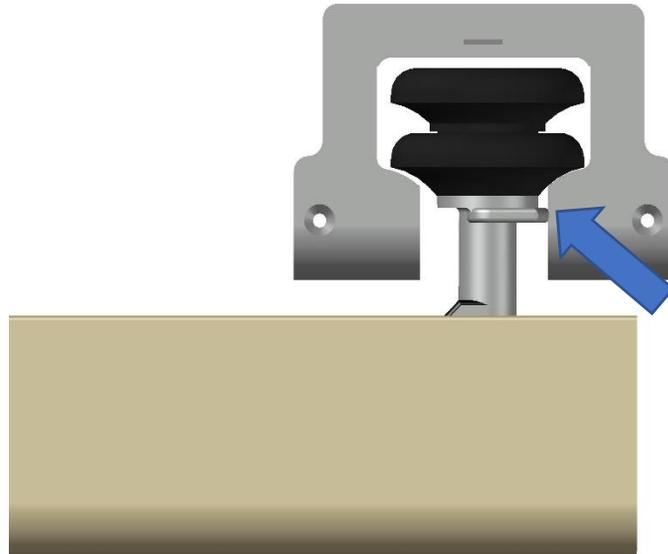
## 8: Adjustments

First check that the small exit “stay” next to the top hinge wheel is doing its job properly, by keeping the panel pushed towards door at all times when adjusting, this has to rub against the small plastic blocks inserted in the top profile, adjust if needed with a 3mm Alan key loosen and move, if over adjusted the panel will not open or close, they all should be in their position or may need a slight tweak from the factory. See diagram below.



Second make sure that the exit wheel also is running against the exit gate pushing the panel back towards the last panel. See diagram below.

These two adjustments are an important part for the smoothness for the finished installation.

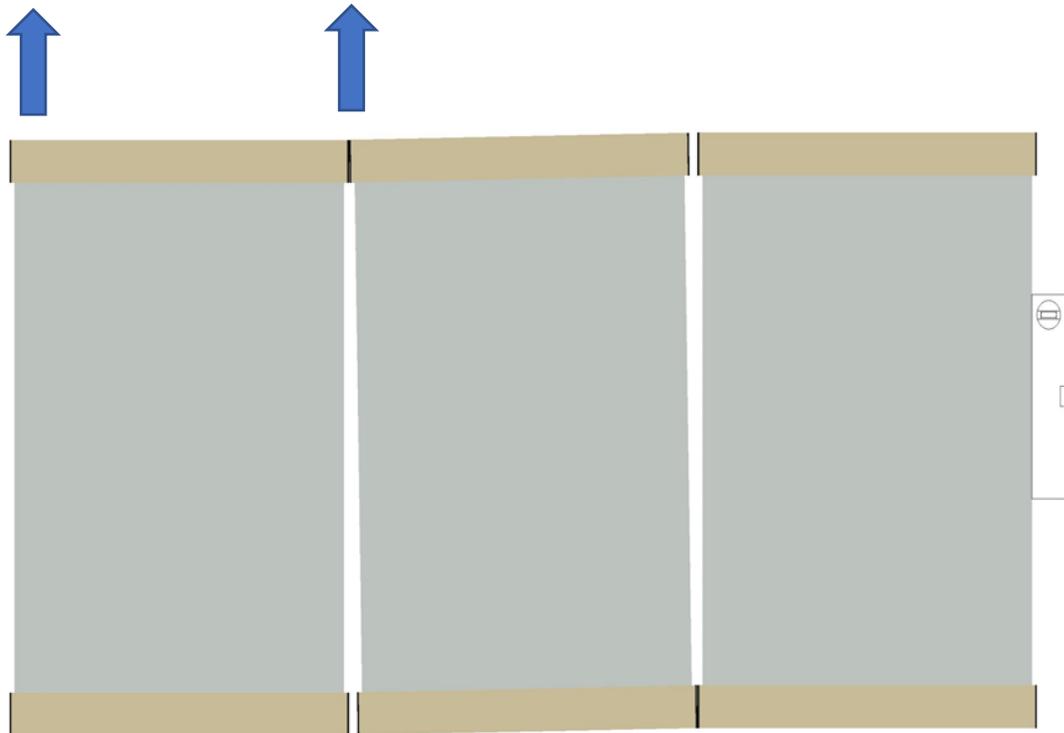


## 10: Balancing the Panels

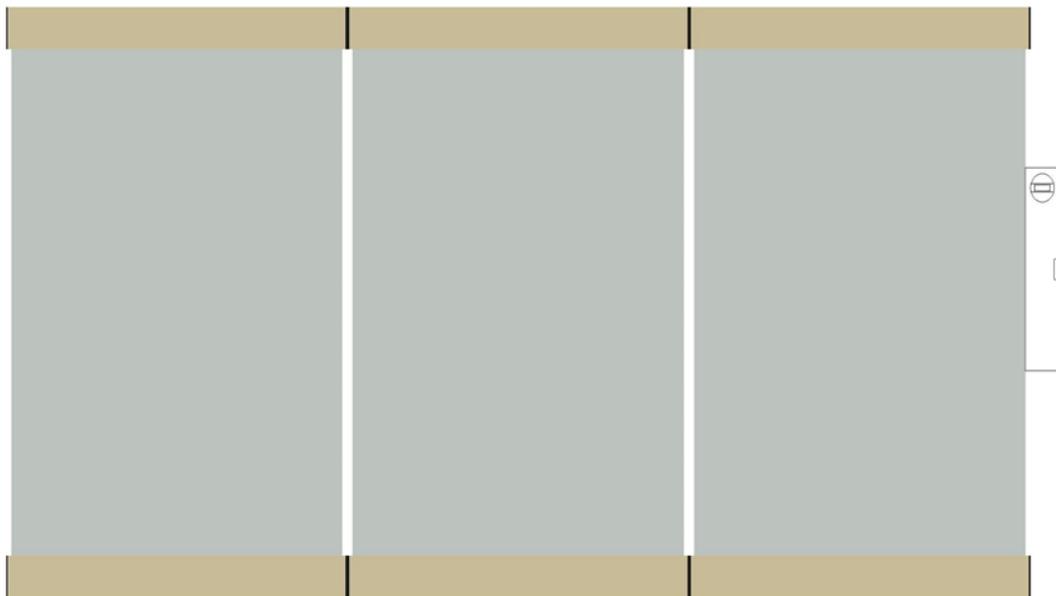
For this operation you will need the 5mm T-bar Alan key.

If the top profile has been put in relatively straight i.e. packed out where needed as described in 5.1 this part should go well, use the adjusters within the top profile to level out and balance every glass.

By raising or lowering the panel you will open or close gaps between the panels as shown in the diagram on the next page.



Example, by adjusting these two adjusting bolts in the top profile you can balance the middle and left panel to make all level.

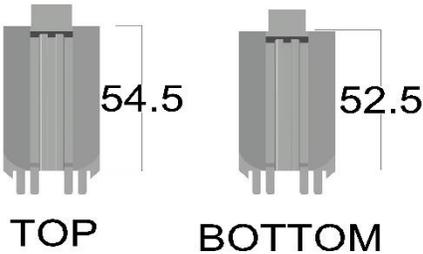


Remember to keep checking the levels, it is important to keep the panels as level as possible, this will help for a trouble-free installation.

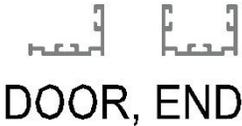
## 11: End profiles and cups

You may need to move the door slightly, this is done by loosening the wheels with the 3mm Alan key, then moving to desired position to work well with the end profile, on the door end this is the cut down profile and cups, the open side faces the opposite direction to which the door is opening, with two small screws fix it to the end caps of the top and bottom profiles, after you have fitted the door end profile you can fit the far end profile you could also move this end profile up or down the track to close any gaps using it as a stop.

The cups that insert into the end profile are of different sizes the top is 2mm longer than the bottom. See below.



Here show the two profiles that you will need to connect with the appropriate cups.



## 12 Finishing

Now everything should be done ready for finishing off with silicon, you may need trim if your walls or ceiling are badly out of level.

Slide on lock or insert and fix lock depending of style.

Clean glass and cut to size the sealing strips and puss them on.

For any installation questions you can leave an email at the following address. [info@gtsglass.com](mailto:info@gtsglass.com)