

VIEW PROTECT

World leader in transparent safety barriers

Maximising Direct Fitment

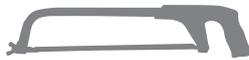
If you would like to ensure that you're ViewProtect transparent burglar bars are fitted as securely as possible, take a look at some of our tips below.

Read these tips in conjunction with the installation procedures which may be found on our website or in the packaging of the product.

IMPORTANT! Always remember that the point of installation is potentially where a weakness can occur that might be exploited further by intruders.

Tools required for safety bar installation

1. Hacksaw



2. Electric Drill



3. Drill bits

- a. **6.0mm – hole in polycarbonate bar**
- b. 2.5mm – pilot hole in wood for screws(optional)
- c. 4.0mm – pilot hole in aluminium/steel for self-tapper screws
OR
5.0mm – pilot hole in aluminium/steel for pop rivets

4. Screw guide (optional)



5. Measuring tape



6. Screwdriver



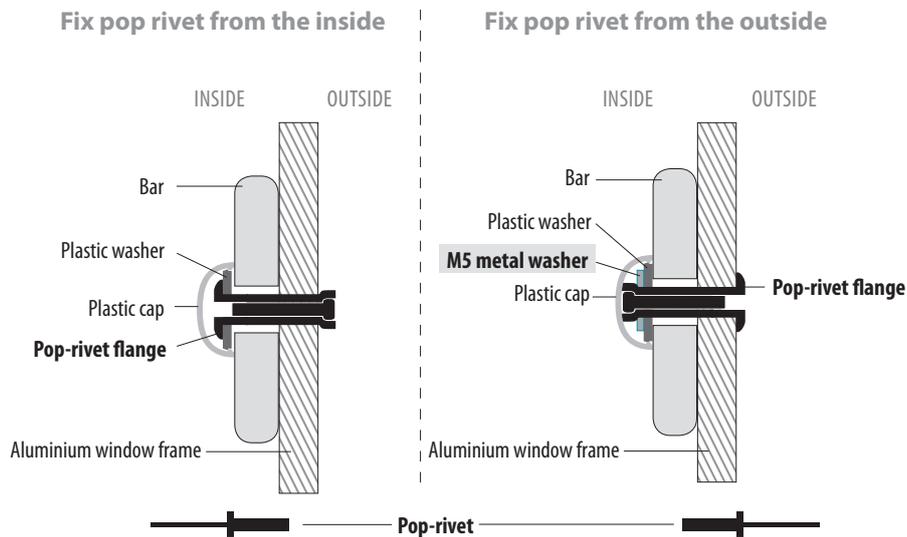
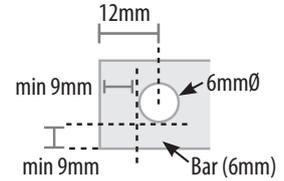
7. Pop rivet gun (optional)



General

General tips to maximise your fitment

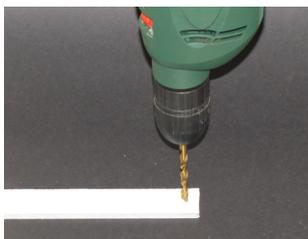
- Holes should not be closer than 9mm from any edge of a 6mm polycarbonate strip.
- The polycarbonate strips must be installed as securely as possible if you wish to obtain the maximum strength.
- **The diameter of the hole, through the polycarbonate strip, must always be at least 1mm larger than the diameter of the screw or pop rivet being used.**
- When the polycarbonate strip is being installed in the inside of the window frame using a 4.8mm pop rivet, make use of a metal washer (M5) with a 5mm hole when pop rivet is installed from the outside of the window frame. The holes in the polycarbonate strip require a metal washer to prevent the pop rivet to be pulled through the polycarbonate strip. See diagram below.



Timber Installation

Tips to maximise your fitment when installing your transparent bars onto a wooden frame.

Only drill holes in hardwood window frames to prevent the wooden frame from splitting when screws are installed.



1. Drill 6mm hole on both sides of the polycarbonate strip.



2. Remove membrane partially on both sides of the strip.



3. Install the second screw at a slight angle away from the middle of the window.

4. Install top, then bottom, then second from top, then second from bottom, etc. This will allow uniform tension over all the bars at the opening.

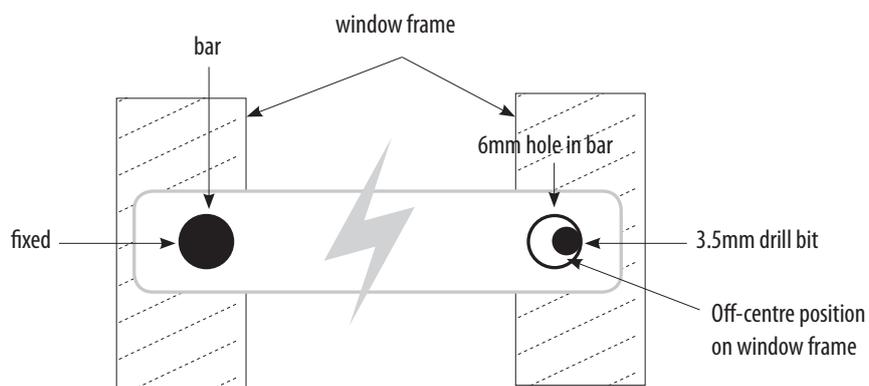
Additional tips:

1. Use large screws with a large thread that will allow strong grip in the wood. After installing these screws, use a steel drill bit and drill out the screw slot to prevent tampering by an intruder.
2. For the ultimate fitment strength, install the tubing in the reveal of the window.

Metal Frame Installation

Tips to maximise your fitment when installing your transparent bars onto a metal frame.

5. Drill a 6mm hole on both sides of the polycarbonate strip.
6. Remove membrane partially on both sides of the strip.
7. After marking out the strip position on the window frame. Drill on one side only. Drill a 5 mm hole in the metal frame for the pop rivet. If self-tapper screws were used, a 4mm hole must be drilled.
8. Place the one hole in the polycarbonate strip over the hole in the metal frame and install the polycarbonate strip by pop rivet or self-taper screw.
9. Take the loose end of the semi installed polycarbonate strip and place it over the opposing side of the window frame.
10. Use a 3.5mm drill bit and place it through the polycarbonate hole to the side and mark the off centre position for the hole in the frame. See diagram below.



11. Drill a 5mm hole in the frame for the pop rivet.
12. When placing the pop rivet or self-taper in the semi installed polycarbonate strip, you will have to apply some pressure to insert it in the frame, this will ensure a solid and firm installation.
13. **Repeat 6-8 for each strip before moving to the next strip.**
14. Install top, then bottom, then second from top, then second from bottom, etc. This will allow uniform tension over all the bars at the opening.

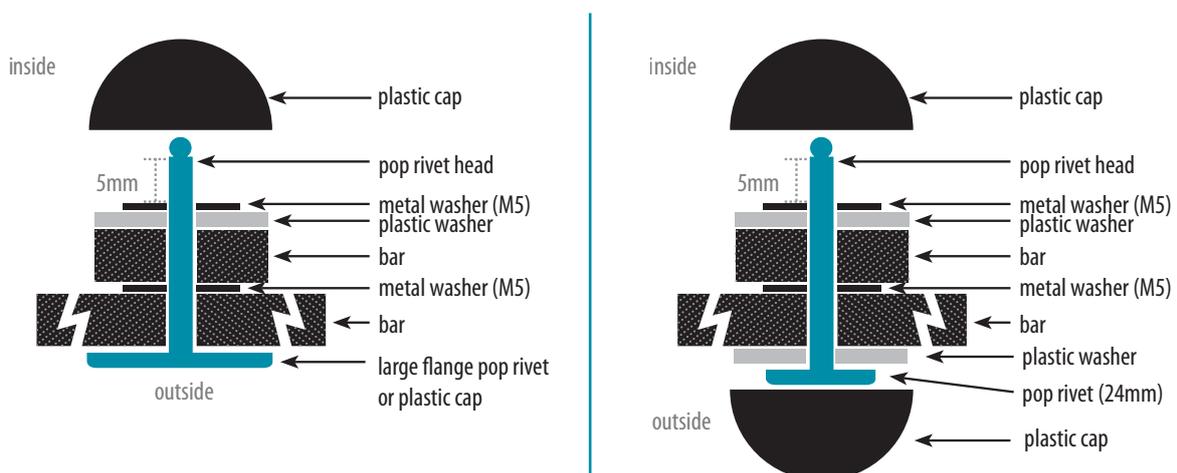
Cross Polycarbonate Strip Installation

When installing polycarbonate strips longer than 1 meter we recommend that the polycarbonate strips must be fixed to a cross polycarbonate strip every 700mm apart. This is primarily dependant on how firmly the installer is able to install the polycarbonate strips and whether or not the window frame is loosely installed in the brickwork. These cross sections must also be fitted to the frame surrounding the window.

Tubing profiles or the window mullion can also be used to fixed the polycarbonate bars in the middel to prevent that no distance between fixing points are more than 1000mm.

How to install cross polycarbonate strips:

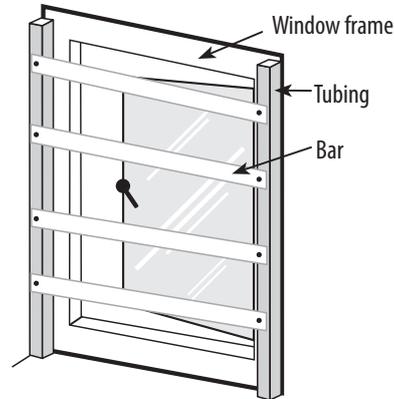
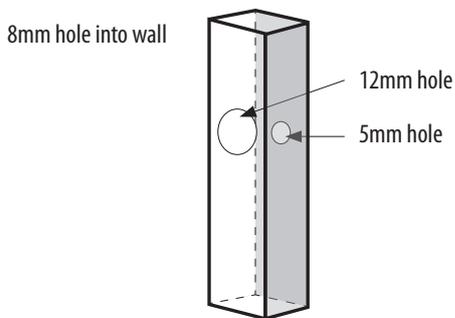
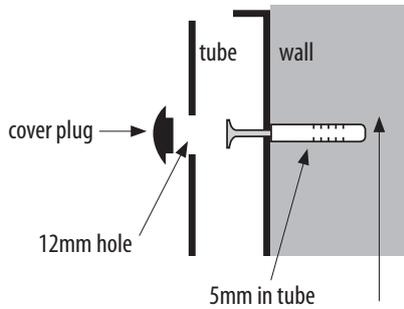
1. Drill a 6mm hole through both the polycarbonate strips at the crossing.
2. Insert the pop rivet from the outside through both of the polycarbonate strips.
3. Place a plastic washer in the inside for the cap, onto the polycarbonate strip AND A METAL WASHER WITH A 5mm HOLE (M5) between the strips and inside on top of the plastic washer.
4. Use a pop rivet gun to install the pop rivet and make sure that the pop rivet has a clearance of at least 5mm past the metal washer before pulling.
5. Place a black (dark) cap over the plastic washer on the inside for a clean and neat look. See diagram below.



Tubing Installation

In some installations you will require larger and stronger fitment on the sides. It is therefore necessary to install a profile on each side on which the bars will be fitted. A 25mm x 25mm square aluminium tubing is a good option as long as the tubing has an edge thickness of at least 2mm.

Drilling holes in the tubing



Tube installation tip

Place a 2-3mm spacer between one of the tubes and the wall. After fixing the bars to the tubes, remove the spacer and pull tube tight against the wall. If you use this option you do not need to drill off-centre holes.

NOTE

Fixing distance between points to wall must not exceed 300mm.

When tubing should be used:

1. Maximising fitment strength – tubing will be stronger than fitting bars onto wooden frame.
2. Window frame edge has insufficient space to fit the bars (frame less than 20mm in width)
3. Window will be prevented from opening when bars are installed on the window frame (tubing move bars away from window handle)
4. Bars too close to fixed glass panes – difficult to fix bars and to clean glass.
5. Window frame that are not strong enough.

SAFETY

ViewProtect products may have sharp edges which may cause injury. Keep away from children. Use at own risk.

ViewProtect products are designed to obstruct entry, but it is not indestructible. The manufacturer or installer therefore will not accept liability for damage, injury or death caused by the use, installation, misuse or destruction of the product. Read ViewProtect's T's&C's on our website.