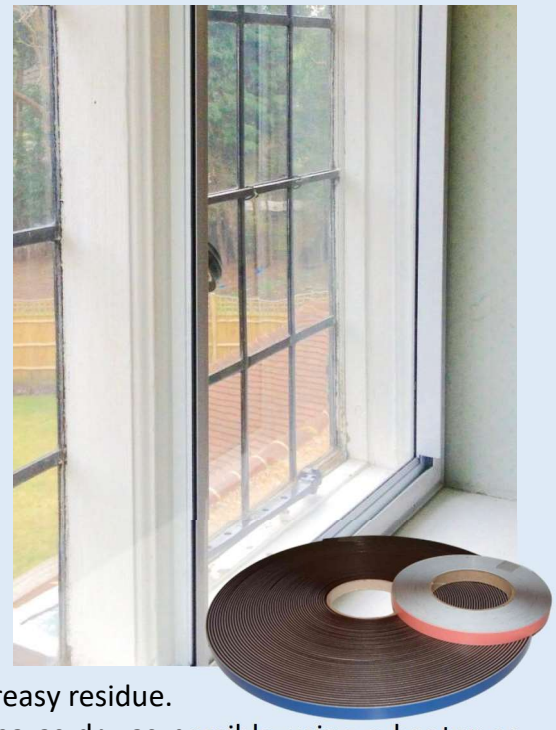
smart roofing systems - secondary glazing

Fitting Tips / Information for Magnetic Tape

Choice of 3 lengths:

- 5m length roll • 15m length roll • 30m length roll



- ✔ Suitable for 2-4mm acrylic or plate polycarbonate
- ✔ Pack consists of a 12.7mm wide magnetic tape and a 13mm steel tape with double sided adhesive.
- ✔ The steel tape attaches to the window frame and the magnetic tape to the secondary glazing sheet. The tapes are only 2mm thick.
- ✔ Ideal solution where you do not want the secondary glazing to protrude too much

1. Usually the steel tape (thin) is fitted on the window frame and the magnetic tape (thick) to the secondary glazing panel.
2. Be careful how and what you clean the window frame surfaces with before applying the steel tape. Use a lint free cloth to wipe the surface and wipe in only one direction to ensure any contaminants get wiped off the frame. If you need to use a cleaning fluid only use a pure IPA cleaner (packs of 10 IPA wipes available from Omega). Do NOT use white spirit as it will leave a greasy residue.
3. If there is condensation around the window, try and get the area as dry as possible using a heater or hairdryer if needed. This is to ensure there is no moisture on the window frame.
4. After applying the tapes to both the window frame and the glazing panel it is a good idea to remove the glazing panels and give the tapes adhesive up to 24 hours to properly bond.
5. If you need to cut the glazing sheet, use a fine-toothed jigsaw or handsaw. If you need to drill a hole in the glazing sheet, ensure you put some tape on the sheet before drilling

Pressure Sensitive Self-Adhesive Tape Technology Surface Preparation and Application

Surface contact is fundamental to adhesive performance, and so it is imperative that surfaces are prepared beforehand and that the adhesive tape is applied n the correct manner. Please remember that the adhesion you are trying to achieve is simply the molecular force of attraction between two unlike materials. The cleaner and purer those surfaces are, the greater the adhesive bond will be.

Surface Preparation

All surfaces need to be dray and clean, which requires the removed of any moisture, grease or dust. If there is any contamination on the surface at point of contact, then the adhesive will quite simply form its bond with this and not the original surface. It is strongly recommended that IPA (isopropanol alcohol) be used as a cleaning agent, due to its ability to evaporate quickly and without leaving greasy residues. Using tissue paper or lint free cloth, wipe the surfaces on one direction only to avoid recontamination.

Application

When applying your tape, it is imperative that pressure is applied to secure the required bond. This ensures maximum surface contact and molecular attraction. Time and temperate also increase molecular attraction and so will increase the adhesion. When the adhesive makes contact, we call the molecular reaction the ‘wetting out’ process, and the longer the adhesive is left to ‘wet out’, the stronger the bond will be. Depending on the adhesive technology being used, it is recommended that the ‘wetting out’ period be between 8 and 24 hours. Elevated temperatures will enable the adhesive to flow more easily and so this will ultimately speed up the ‘wetting out’ process.