

FIXING COMPONENTS**Fasteners**

Fasteners should be installed in the quantity, size and fixing intervals as recommended in the Wind Load Table for the class and profile of sheet, for a wind load of up to 1 KPa. Where wind loads exceed 1 KPa enquiries should be referred to the Alsynite Technical Department.

Where installed in conjunction with metal sheets, allowances must be made for the differing expansion rates of the two materials and all holes must be predrilled as specified. Note that unless fasteners are rigidly adhered to the sheets they may be likely to buckle and leak at side laps.

Side Lap Fasteners

Side lap fasteners are necessary to ensure a waterproof lap, and must be located at a maximum 600mm centres. Pre-drilling of the GRP sheet is essential. In certain applications where two glass reinforced polyester sheets are side-lapped, a bulb-type or similar rivet can be used in place of the screw, as differing thermal expansion is not a concern. Ensure that in these situations reference is made to the Alsynite Technical Department. Side-lap fasteners should be installed as per Alsynite's specifications.

Washers

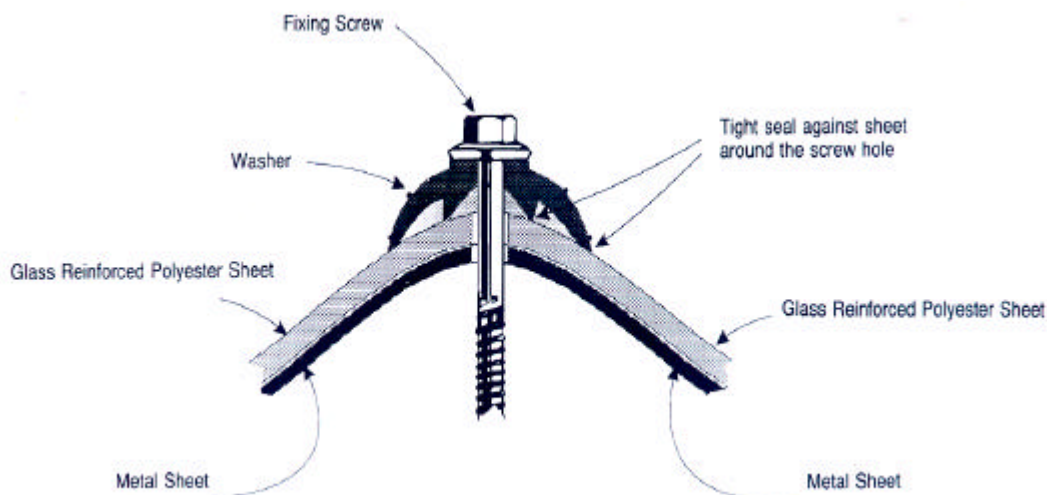
All fixing holes must be waterproofed with the use of a sealing washer installed under the head of the fixing screw or rivet. In normal applications a 32mm diameter approved washer will be suitable. The washer should be able to form to the shape of the rib of the profile, It must also be in complete contact around the outside edge of the sheet when the fixing screw is tightened.

A larger washer should be used where necessary to ensure a waterproof seal for unusual profile shapes, or in some cases an irregular sized clearance hole in the GRP sheet.

Note: Do not over-tighten fasteners.

Closure Strips

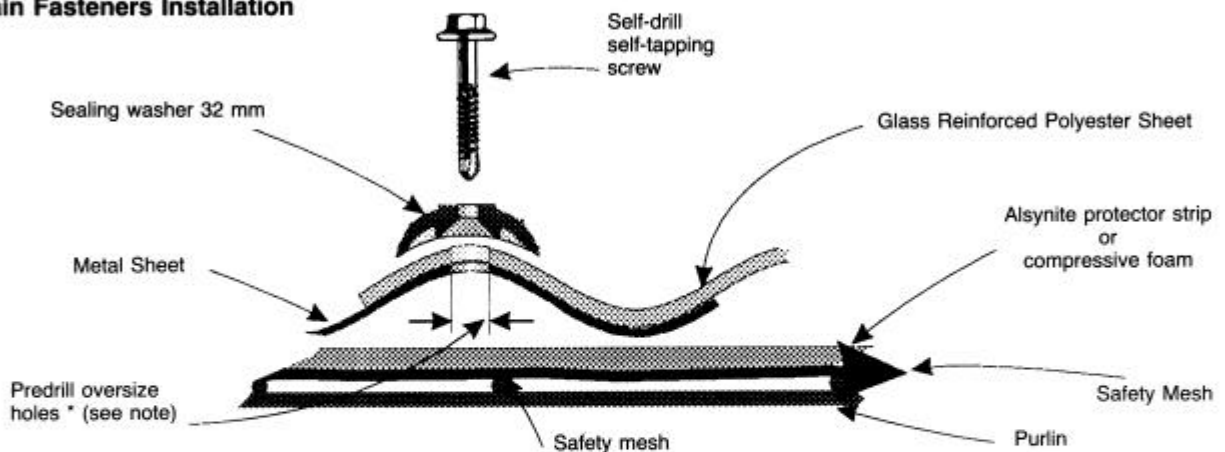
Also called Eave Fillers, they are used to seal both the top and bottom of various profiles against the entry of water, dust, or vermin at all flashing points and gutters. This is the only recommended method of providing a waterproof seal under normal flashings. Refer to the correct procedure for Parapet Flashing and Eaves Closure located within this section.



Recommended Fastener Types

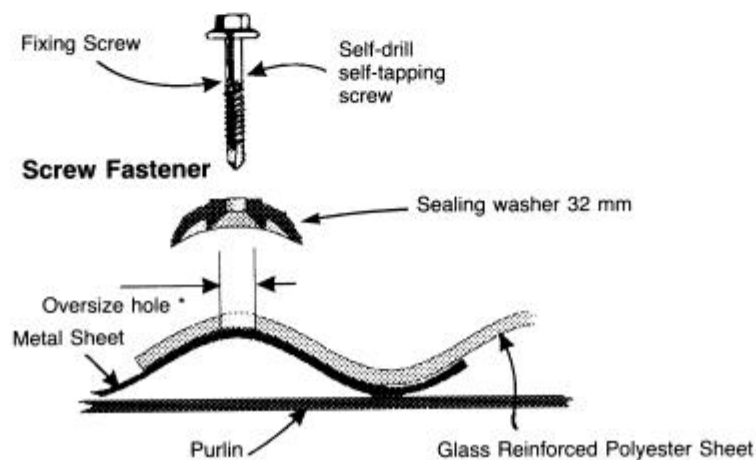
Profile	Fastener
Trapezoidal	12 x 65 mm Self Drilling Fasteners
Corrugated	12 x 45 mm Self Drilling Fasteners
Close pitched trapezoidal	12 x 65 mm Self Drilling Fasteners
Wide rib concealed-fix decks	12 x 65 mm Self Drilling Fasteners
Side lap fasteners	10 x 20 mm Stitching Screws or 10 x 25 mm Type 17 Wood Screws

Main Fasteners Installation



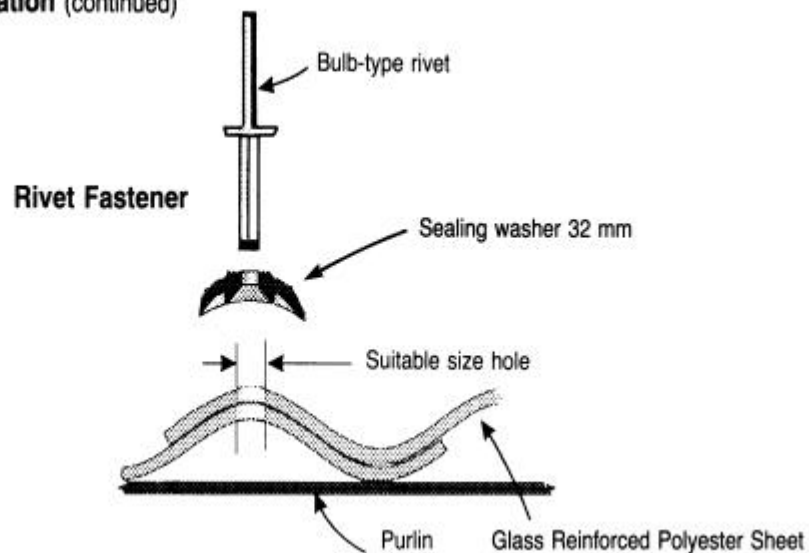
Side Lap Fasteners Installation

Side lap fasteners should be installed at a maximum of 600 mm centres



NOTE: Drill oversize holes in GRP sheet for all fasteners.

- Sheet lengths up to 10 metres - drill the clearance hole at 10mm diameter
- Sheet lengths over 10 metres - drill the clearance hole at 15mm
- Sheet lengths above 16 metres are not recommended.

Side Lap Fasteners Installation (continued)**CHECKING THE INSTALLED SHEET**

On completion make the following checks:

- No cracks or damage has occurred from fastening.
- No damage has occurred from dropped articles.
- No damage has occurred from accidental foot traffic.
- Ensure that drill holes are oversize as specified for the sheet length and that fastener being used is the correct size and type.
- There are no gaps at side or end laps of the Alsynite GRP sheet.
- Remove all debris from the sheeting.
- Install signage as required by Building Regulations.

MAINTENANCE OF GRP SHEETING

While normal rain provides a self washing action, the roof pitch or local environment can allow the accumulation of dust on the inside and outside of the sheeting.

Where accumulation is a problem, hose and broom off the dirt build-up.

In older installations, when light transmission levels can no longer be determined, sheeting can be replaced with a progressive maintenance program.