

Installation Guidelines: Button Punched
(Concealed Fixed)

1. Place first sheet down with the correct length into the gutter. Using the rib closing tool squash the female rib and place a top fixing clip over and fix to the purlin.

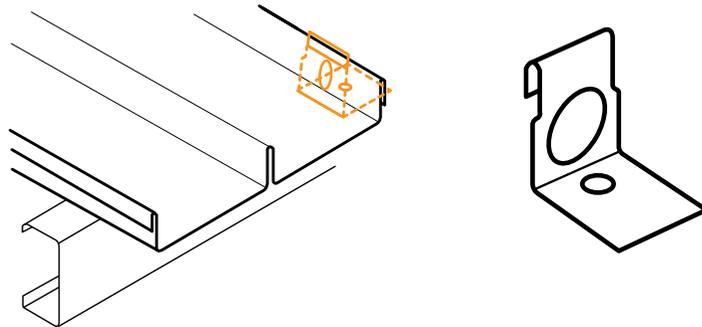


Figure SL IG 001

2. Using the rib closing tool squeeze the male rib of the first sheet. Place top fixing clip over each squashed male rib and fix to purlin. This needs to be done to prevent the sheet from lifting in the wind before the barges are fitted. The use of string lines will assist in ensuring sheets are installed straight.

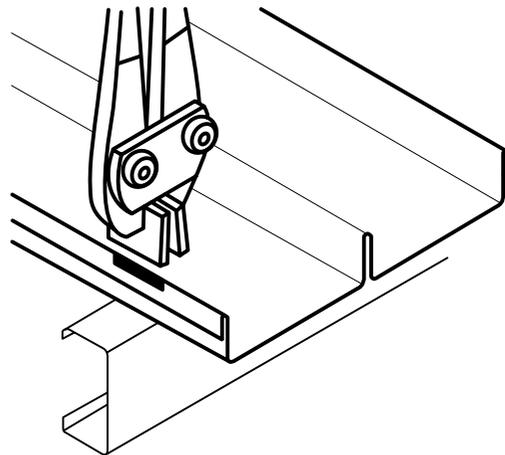


Figure SL IG 002

3. Make a small non-permanent mark in the pan to enable you to locate the clips in the latter locking operation with the button punch.
4. Position the female rib of the next sheet over the male rib and clips ensuring that it is fully engaged.

Fully engage the sheet with the clips using foot pressure on the ribs over each clip. You can do this by walking along the full length of the sheet with one foot in the tray next to the overlapping rib and the other foot applying pressure to the top of the interlocking ribs at regular intervals.

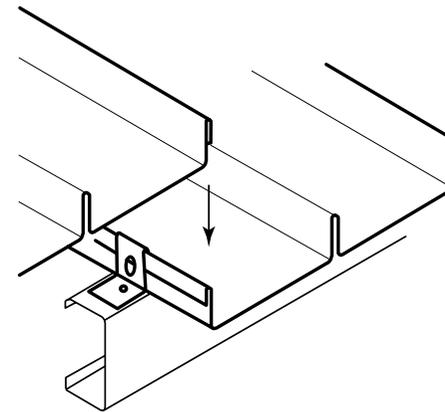


Figure SL IG 003

5. Repeat steps 3 to 5.
6. All lapped ribs must be locked along their length, by button punching at the clips, and if necessary between the clips (typically at 900mm centre to centre). Punching to a string line guide stretched across the sheeting is recommended as random punching marks the appearance of the finished work.

- You must button punch through the hole in each top fixing clip, you can locate the clip with the non-permanent mark made previously. When operating the punching tool, stand on the pan of the overlapping sheet to ensure that the sheets are fully engaged.

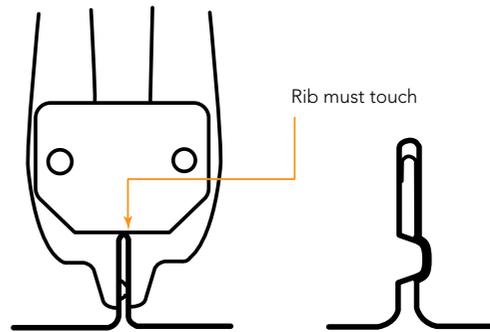


Figure SL IG 004

Recommended Fasteners Shadowline™ 305 Button-Punched (Concealed Fixed)	
Supports	Recommended Fastener (Without Insulation)
Steel 1.0 to 3.5mm	10-16x16WH Tek Screw
Timber Hardwood	10-12x25WH Type 17
Timber Softwood	10-12x25WH Type 17
Metal Battens (0.55 to 1.0mm)	10-16x16WH Tek Screw

Table SL RF NC 001

Ends of Sheets

Wind can drive water uphill under the flashings or cappings. Also, at the low end of a roof, wind or capillary action can cause water to run back up the underside of the sheeting. To minimise these problems, turn the pans up at the top of sheets, and turn them down at the bottom. A tool is available for these jobs (ref. Figure SL IG 005).

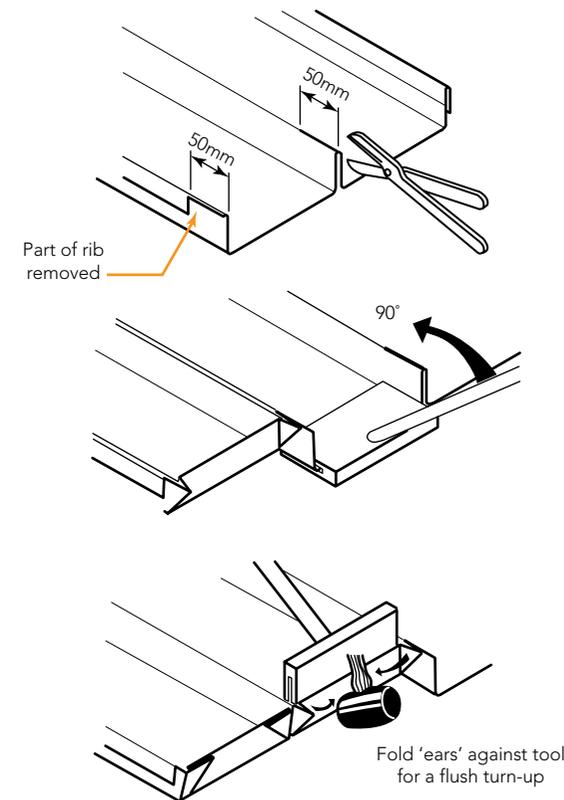


Figure SL IG 005

Turning-up

Flush turn-ups are usually used on Shadowline 305. Cut off a portion of the female rib for at least 50mm. For a flush turn-up, you also need to cut the crown of the centre rib for at least 50mm.

Holding the end of the tool against the end of the sheet, pull the handle up 90°. If turning-up flush, fold the protruding ears flush against the turn-up tool with a rubber mallet (ref. Figure SL IG 005).

Turning-down

All roofing on slopes below 1 in 5 (10°) must be turned-down. Turning-down is usually done after the sheeting is fixed on the roof, provided there is no obstruction to the operation of the turn-down tool.

Push the turn-down tool over the end of the tray, as far as it will go.

Hold the tool hard against the end of the tray and push the handle to form a turn-down of about 20° (Figure SL IG 006).

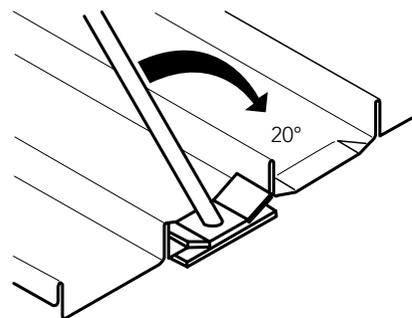
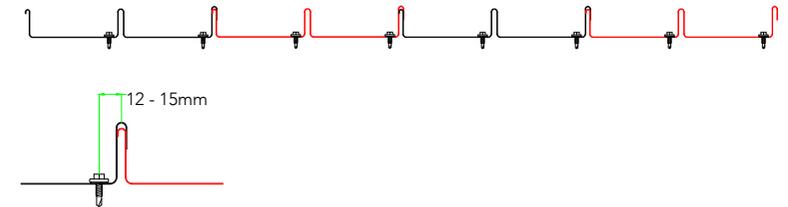


Figure SL IG 006

Installation Guide: Screw Fixed (Pierced Fixed)



Recommended Fasteners Shadowline™ 305 Screw Fixed (Pierced Fixed)	
Supports	Recommended Fastener (Without Insulation)
Steel 1.0 to 3.5mm	14-10x25HH Tek Screw
Timber Hardwood	14-10x25HH Type 17
Timber Softwood	14-10x25HH Type 17
Metal Battens (0.55 to 1.0mm)	14-10x25HH Tek Screw

Table SL SF NC 001