

# LASERLITE® - ONE SHOT FIXING

New Laserlite® One Shot Fixing for Polycarbonate roofing comes complete with its own hole saw that cuts an expansion hole as you drill. It only requires a power drill/screw gun and a 5/16" hex socket. No drill bit required. The screw is centered every time; the cutter holds the plug of material removed and grips the purlin when the fixing is tight enough.

Temperature changes will cause polycarbonate roofing to expand and contract. In fact, a 3cm sheet can move 2.1mm for every 10 degrees C change in the sheet's temperature. Resistance to this movement can cause buckling. So, allowances need to be made for thermal movement.

Historically it has been necessary to pre-drill a 10mm expansion hole in polycarbonate roofing to accommodate a 12g (4.5mm) screw. This requires fitting a drill bit to pre-drill the holes then fitting a hex driver to fasten the screws and weather seals. It requires the expense of purchasing a drill bit, the time of fitting and detaching the two tools to and from the power drill and the time to pre-drill the sheet and then basically repeat the same action to fasten the sheet for each and every fixing point.

Because polycarbonate roofing expands along its length, it is also necessary to centre the screw in the pre-drilled expansion hole in order to enable the sheet to expand or contract in both directions equally. If the screw is placed too close to the edge of the hole, it will restrict movement and potentially cause buckling.

Due to the speed of drill operation, it is common to over tighten the fixing and deform the sheets corrugations. Backing the screw off to correct this adds another operation. If it isn't corrected it may lead to the roofing leaking.

## Benefits

- Cuts installation time in half
- No more pre-drilling
- No more changing tools
- Save Time
- Save Effort
- Save Money
- One Shot
- No more pre-drilling
- No more changing tools
- No special tools required



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## One Shot® Fixing Stages

### Stage 1

Firmly place the sharp point of the One Shot fixing onto the crest of the corrugation to be fixed to eliminate “skidding” or “wandering”.

### Stage 2

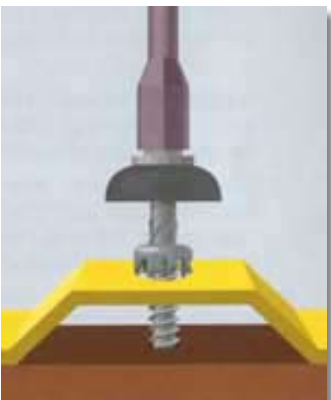
Start drilling at 1000-2000rpm to pierce the sheet. Screw engages in timber purlin.

### Stage 3

Cutter engages polycarbonate sheet, cuts the expansion hole and centres the screw.

### Stage 4

Cutter engages the purlin and provides resistance to indicate that drilling should stop.



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