






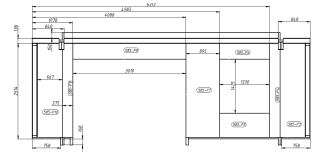









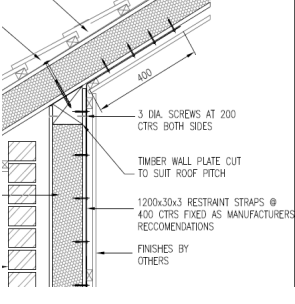






SIP-PANELS Limited. Extension kit installation guide

Activity	Item		Note
1	Ensure foundation base is flat and level ready for sole plate installation - Free from, dirt, dust and undulations		*less of an issue with Quick base
2	Place DPM below 136mm treated timber sole plate, pre drill and fix with concrete screws provided *Standard concrete 100mm long @400mm centres *Quickbase 180mm long @ 400mm Centres		*No DPM required for Quick base *Quick base - thin bead of expansion foam to fix
3	Fix SIP PANEL 110mm Panel base rail centrally on to sole plate with 75 x 5mm wood screws provided @ 200mm centres		
4	Pre drill and fix wall starter rail vertically to existing structure with fixings provided Rawlplug 10 x 120mm (RFF1 – N- 10L 120) @ 300mm centres vertically		
5	Place first SIP PANEL in sequence on to the base rail and slide it into the vertical starter rail		*optional thin bead of foam for extra seal *if required ease into position with a mallet *Check plumb with a level
6	Insert vertical ply splice pieces into the pre-grooved recesses and initially secure with 3.x 2.8mm screws provided Screw SIP PANEL into base rail with provided 30 x 2.8mm screws int. / ext. @ 150mm centres (Both Sides)		*optional thin bead of sealant foam on leading edge of insulation – required if gaps appear due to uneven foundation slab

7	<p>Place next SIP PANEL on the base rail and slide horizontally to join 2 SIP PANELS together for a airtight seal</p> <p>Repeat step 6</p>		<p>*Install some screws vertically to temporarily hold secure ahead of final screwing up</p>
8	<p>Repeat until sequence is complete around the whole structure</p>		
9	<p>Either side of each joint in panels to be screwed with 30 x 2.8mm screws provided @ 150mm centres - internally and externally</p>		
10	<p>Screw up all corners tight with provided 175 x 5mm timber screws @ 150mm centres</p>		
11	<p>Apply supplied breather membrane to external faces and secure with hammer tacker, observing pre-marked roll laps.</p> <p>*Also to all reveals / heads of panels for temporary protection & weatherproofing</p>		
12	<p>Panel head rails will need to be inserted and fixed either side with drywall screws as panel base rail</p>		
13	<p>Fix 50 x 15mm internal service battens with 30 x 2.8mm screws provided @ 200mm centres vertically (for services and drylining)</p>		

Roof	Locate, drill and fix wall plate with pre-fitted roof support angles using provided hammer - fix type fixings into masonry		@300mm centres – Rawl. Ref. R-FF1-N-10L 140mm long Special engineers detail provided for alternate wall types
Panel to wall plate	Fix through SIP PANEL into wall plate using 100mm x No. 14 screws and additional M8mm x 50mm washers		200mm Centres
Splines	Insert insulated structural splines (or rafter as required / provided) – as per numbered layouts. Screw internally and externally all SIP PANEL joints		With 32mm coated drywall screws @ 250mm Centres
Panel to ring/eaves beam	Fix through SIP PANEL to ring / eaves beam with wafer head screws provided		@ 100mm Centres
Restraint straps	Fix galvanised perforated 1200 x 30 x 3mm restraint straps to underside of roof - front wall only @400mm centres		Fixed with provided square twist nails in every other hole
Breather membrane	Fix breather membrane with random hammer staples lap as marked on roll		Min 6mm staple
Roof Battens	Roof battens- as required		Dependant on roof covering type Does not apply if single Membrane/ rubber/ glass fibre

“Goal post” addendum

Addendum	<p>Where SIP PANELS supply a goal post for Bi- folds, this will be in kit form for site assembly. The post will be housed in a preformed recess in the panel with insulation on outer face to avoid cold bridging</p> <p>The SHS posts should be carefully inserted into the prepared panel recesses.</p>		
Continued	<p>Once inserted the panel will need to be drilled from the inside into the SHS goal post frame with the supplied HSS bit</p> <p>There after Tek TSHW5–50-5 self-drilling screws (supplied) will need to be carefully inserted at 200mm centres</p> <p>Where being used as a wind post base plate to be secured through each pre-drilled hole with 180 x 7.5mm concrete screw as before</p>		

Key points – Essential

- For ease of Installation keep SIP PANELS dry while stored
- Check plumb and level at all stages
- Do not substitute fixings from those supplied / stipulated
- At all stages refer to drawings provided – panels are supplied for each location and should not require cutting (minor trimming acceptable)
- Additional sealing and gap materials provided should they be needed

