

# Installation Guidelines For Variable Angle Baypole Systems



**1.** Drill a 20mm diameter hole through the cill on the centreline of the weld. The centre of this hole is shown on the deduction sheets.

**2.** Unthread the nut and capstan from the jack base. Position the base on the brickwork and pass the M16 studding through the hole in the cill. Ensure the jack is level and true resting on a sound substrate. Any packing must be done using stainless steel shims. The cill must be fixed to the brick work either side of the jack base within 150mm of the cill centreline.



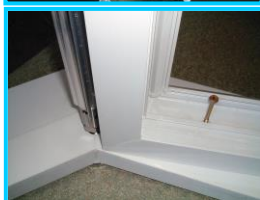
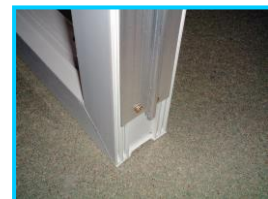
**3.** It is important to make a good watertight seal between the M16 thread and the cill- Use an appropriate silicone sealant. Wind the nut and capstan down onto the base and position the fibre washer supplied as shown.

**4.** Cut the baypole to length – ensure the cut is straight and true. the formula is Frame height – height of the nuts and capstan. Now locate the baypole on top of the fibre washer as shown.



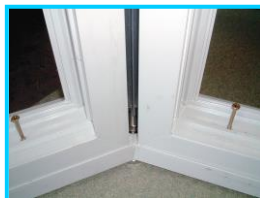
**5.** Locate the top spreaderplate into the hole in the baypole with the fibre washer in between. You can now begin to 'jack' the pole. You should jack approximately 5mm until the bay starts to take load. Do not over tighten, simply 'take the weight'. You must ensure the pole is vertical in both planes and that the top spreaderplate is located onto a suitable surface. Packing with stainless steel shims may be required at the head - depending on substrate and its condition.

**6.** Cut the aluminium frame adaptor 100mm shorter than the frame height and position it 80mm from the bottom. Now screw the adaptor to the frame using the two V- grooves as a guide. Screw heads must be tight to the adaptor to avoid interference with the baypole. If you have a rebated plasterline projecting (tiles etc.) then you should not fix the final frame adaptor at this stage as you will need to shuffle the frame into position before fixing through the frame into the adaptor.



**7.** Where rebates and projections are not an issue you can begin to fit the frames. Locate the 'ball' on the aluminium frame adaptor into the socket on the baypole. The frame will need to be perpendicular to the baypole in order to do this. By pressing the frame tight up against the baypole you can now rotate the frame around, as shown, to butt the cill upstand. As you do so, depending on your bay angle, the frame adaptor and baypole will interlock stopping the frame falling out. If you have not fixed the aluminium to the frame due to obstacles described in stage 4, then you must 'shuffle' the frame into position behind any rebates. Rotate the aluminium and then fix through the frame rebate into the pole adaptor and into the baypole. If you fit the internal PVC-U trim before drilling then it will ensure the pole is centralised while you drill.

**8.** Fix frame down through the frame into the cill with the frame tight against the cill upstand. Follow normal fixing guidelines in terms of screw types and fixing centres.



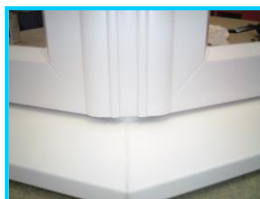
**9.** Repeat stages 7 and 8 for the adjacent frames and hence fit the entire bay.

**10.** With the adjacent frames in position you should make a final check of the baypole jack and lock out the locknut onto the capstan.



**11.** Cut the internal trim to size and clip into position. This will centralise the assembly and assist before you screw fix the baypole to the frames. The trim should locate nearly on top of the windowboard or cill upstand. Before clipping into position you have an option to run a bead of sealant into the 'cups' along the edge of the extrusion for additional weather sealing.

**12.** When all frames are fixed into position you must then ensure that they are secured to the baypole. You should drill and fix at max. 250mm centres and this can be done with a screw through the frame or from outside through the 'V' grooves at the base of the aluminium legs projecting from the baypole. This fixing is especially important for load bearing situations. There should always be a minimum of three fixings. You can silicone around the jack detail at the base to ensure good weather performance. This needs to be done before fitting the external cover.



**13.** When all fixings are in position, cut the outer trim to size and clip it into position. You can also run a bead of sealant along the edges if you wish – prior to fitting. Trims are supplied with protective tape, which should be removed within a day or two of the installation. Glaze and complete installation as normal.