

AeroCatch[®] 2

Plus Flush Series & Flush Series

Thank you for selecting the AeroCatch2. The following instructions are to help you successfully install and use this unique product. The kit contains 2 AeroCatches, all installation fasteners and cut-out template.

Before starting please familiarise yourself with the AeroCatch2. Depress the crescent shaped secondary lock button and the handle will pop open by about 10° (the latch mechanism is still securely locked at this point), this is called free travel and allows you to get hold of the handle and open the latch – this action pulls the shear pin clear of the main structure. To close the latch push the handle down until it engages the secondary lock button.



Before starting to install your AeroCatch, Check which version of shear pin is fitted. If you have a stainless steel uncoated shear pin (see Fig 1) lubricate the inside linkage and shear pin with a light spray oil wiping away any excess. If you have a stainless steel shear pin with a PTFE coating (see Fig 2) additional lubrication is NOT NECESSARY as the PTFE Coating provides all the lubrication needed to operate the AeroCatch.

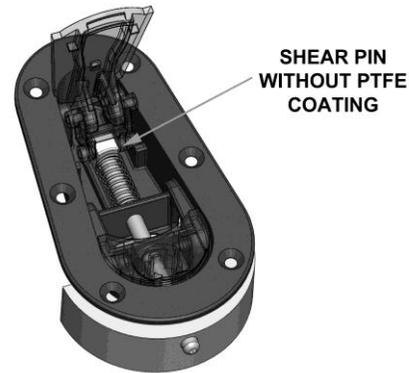


FIG 1

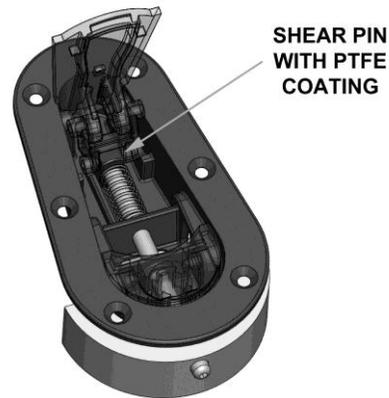


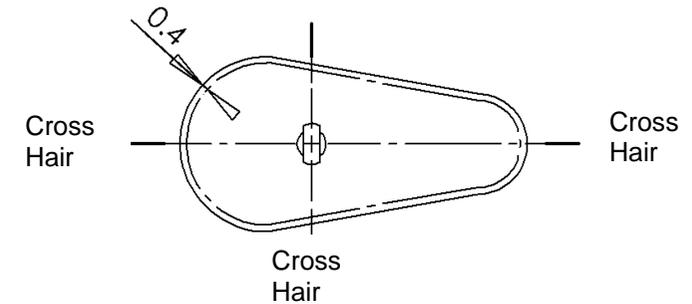
FIG 2

Once you have unpacked your AeroCatch2 kit you have two options in marking out the panel cut-out. Either use the packaging cut-outs that the latches sit in as a template, or use the dimensions shown on the installation drawings on the website .

Please note that the cut-outs are different for the two styles. The cut-outs are sized for the Plus Flush Series; if you are using the Flush Series then you will need to draw a line that

sits inside the cut-out by 0.4 mm.

Lay the cardboard packaging sheet out flat, you will see two sets of cross hairs on the perimeter of the cut out, these determine the centre for the AeroCatch.

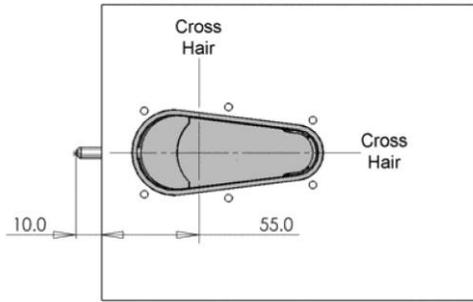


Check that there is sufficient room below the panel and that it is not in an area with an excessive panel radius.

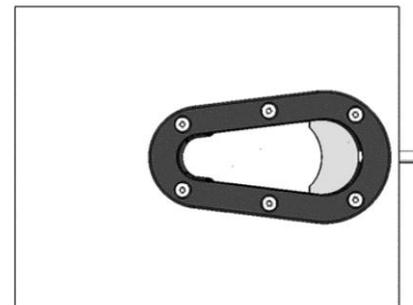
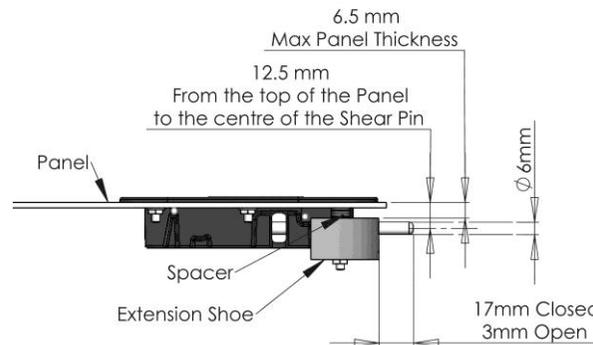
The shear pin protrudes past the end of the AeroCatch 3mm when open and 17mm when closed, i.e. it has a throw of 14mm.

When positioning the template it is important to allow for the thickness and position of the panel return (if there is one), the fit between the panel and frame and if it is a hinged panel the radial clearance required.

Place the template onto the panel with the end with the larger radius facing towards the panel edge. Using a straight edge or similar, line up the cross hairs on the major axis at 90° to the panel edge. Move the template until the centre of the AeroCatch2 is typically 55mm from the panel edge, this will allow 3mm for a panel return giving 11mm to engage with frame allowing for the panel fit and/or swing clearance.



The **Plus Flush Series** is designed to be installed through the panel with the flange on the top. Panels up to 6.5mm thick can be accommodated before it is necessary to rebate the back of the panel.. Important - when installing in panels less than 6.5mm thick packing will need to be placed between the top of the extension shoe and bottom of the panel to ensure a solid joint. 2 nylon spacers are supplied in the kit that can be cut down to do this. NB it is important that the shear pin is a free fit through the extension shoe and panel return. Care should be taken when aligning the extension shoe and tightening the M4 x 35 screws protruding through the shoe.



Top view of Plus Flush AeroCatch2 in panel

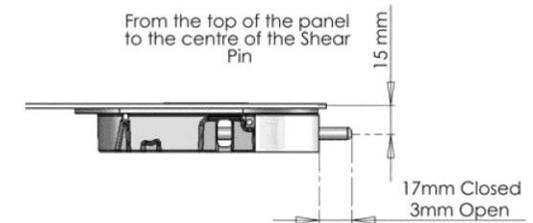
Now mark around the cut-out, remove the template and cut as required, if you are fitting the Flush Series remember to draw a line 0.4mm inside the template. Place the AeroCatch in position and mark the fixing holes. Alternatively use the dimensions on the installation drawings.

AeroCatch will take up a small radius on the panel but you may wish to fare around it with silicone in tighter radius areas. Do not distort the housing when fixing, as this will adversely affect its operation and performance.

Installation

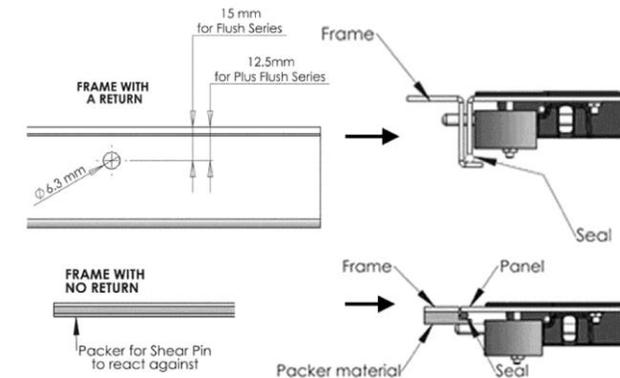
You will find a pack consisting of four M4x16, two M4x35 screws, six M4 stainless steel washers, six M4 nyloc nuts and, for the plus flush version only, two nylon spacers. The two M4 x 35 screws fit in the two holes in the large radius end and secure the body and extension shoe in position. The M4 x16 screws fit into the other four holes in the flange. If the panel has a return it will be necessary to drill a 6.3/6.5mm clearance hole for the shear pin. Please see the installation drawings for the offset required.

The **Flush Series** is designed to be installed from underneath the panel and will give a flush finish in panels up to 2.5 mm thick. When using thinner panels it will be necessary to pack it out accordingly. Thicker panels will require rebating.



Setting up AeroCatch2.

The AeroCatch2 shear pin travels through the return on the panel and engages either in a hole in the frame or under the edge of the frame. If there is no return on the panel it is recommended that one is fitted in this area for additional support. Typical frame preparation is shown below.



A flexible seal or gasket should be placed between the panel and the frame to ensure a snug fit and prevent vibration. When setting up the position of the hole in the frame this seal should be compressed slightly by applying a light pressure to the panel.

Operating AeroCatch2

Once set up, operation of the AeroCatch is simple. Push the crescent shaped button, the handle pops up, pull the handle back and the latch opens. The open handle gives a visual indication that the AeroCatch is open.

To close the latch just push the handle down until it engages with the secondary lock button, an audible click can be heard as it locks. Please note that if the seal between the panel & frame is new it may be necessary to apply a light pressure to the panel when operating the latch to enable the mechanism to run freely.

Care of your AeroCatch

To optimise performance of your AeroCatch, Clean mechanism regularly with a small brush Clearing away any swarf, dirt or grit.

If you have a stainless steel uncoated shear pin (see Fig 1) lubricate the inside linkage and shear pin with a light spray oil wiping away any excess.

If you have a stainless steel shear pin with a PTFE coating (see Fig 2) additional lubrication is NOT NECESSARY as the PTFE Coating provides all the lubrication needed to operate the AeroCatch.

Technical Support

We hope these instructions will enable you to successfully install and use AeroCatch.

Should you encounter problems or wish to use it in a different application area please call our technical support on +44 (0)1803 868677, FAX on +44(0)1803 86878, email us at support@aerocatch.com