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Fitting Instructions for AXXYS® Glass Panels
AXXYS® Glass Panels are a contemporary range of stair balustrade designed to inspire and to fit with the AXXYS® stairparts range.

The following instructions are for installing AXXYS® glass panels only to fit all your other parts please see our AXXYS® stairparts fitting instructions.

If you have any queries please contact Cheshire Mouldings technical helpline on (0800) 085 3464.

Please Check, All components should be inspected BEFORE installation commences for any damage and all your items are correct before installations.

Whilst every care has been taken to ensure the information contained within these fitting instructions are correct, they are only a general guide, every situation is different. Please read through the fitting instructions fully before commencing any fitting, Cheshire Mouldings will not be held responsible for any mistakes made through incorrect fitting. Cheshire Mouldings reserve the right to amend the fitting instructions at any time.

You will need to take extra care when installing pre-finished components and some touching up will undoubtedly be necessary around the cut areas.

Regulations & Standards

AXXYS® has been designed not only for its quality and style, but also for its simplicity to install. All components have been independently tested to conform to UK building regulations, are design registered and patent pending. This means that they conform fully to the domestic requirements laid down by UK Building Regulations Part K, relating to guarding and resistance to horizontal force. Relevant British Standards for compliance are BS585 Part 1 1989 and AMD 6510, concerning wooden stairs and their fixings; BS5395 Part 1 2010 about straight stairs; and BS6180 2011 with its code of practice for protective barriers.

Domestic

As stated, the Cheshire Mouldings balustrade systems conform to domestic standards as set out in Building Regulations Part K. This asserts that “The guarding should be able to resist a horizontal force of 0.36kN for each metre of length if it guards a private stairs”.

As a modular system AXXYS® provides the flexibility to blend components from across the range to create a stylish, bespoke staircase and a focal point for any living space. Clean lines and metallic details also allow AXXYS® to make a modern statement within more classic, period environments.

AXXYS® stair balustrade is a UK and International Patent and Design Registration pending product, blending traditional turnings with modern materials. Hand and base rails are assembled using our unique metal brackets. Balusters are fixed into place using our patented fully adjustable baluster brackets which adjust between 90° and 45°, locking firmly into place when positioned into the Hand and Base rail profile. These components once assembled form an innovative balustrade solution that can be adjusted to suit any staircase pitch between 38° & 45°.

Please Note;

AXXYS® is a factory pre finished system, therefore when handling and installing please take extra care in order to not damage the finish.

AXXYS® is designed for use in domestic situations and will fit most closed stair cases achieving minimum handrail heights of 900mm on the rake and 900mm on the landings. If your staircase is longer than 3.9m on the rake, you must install an Intermediate Newel Base, Newel Post & Handrail Connector in order to achieve the FIRA strength standards, instructions for this are on the following pages.

AXXYS® is manufactured to precise tolerances, however please be aware that timber is a natural product and some distortion, expansion and sometimes shrinkage can occur.

If timber components (i.e. hand rails) are slightly oversize, gently sand or shave the timber until a tight fit is achieved, being careful to only sand/shave the part of the component that is going to be concealed by the metal or plastic connector.

If the timber component is slightly under size, the tolerance can be taken up by using a gap filling adhesive.
Handrail Height & Glass Panel Assembly

Assembly of a glass panel is very simple,

Take one of the glass brackets and assemble as shown (see fig 1)

Note: That the curve of the bracket sits facing the curve of the glass panel please see fig 2 for a visual.

Using the fixings provided, take the other half of the bracket and temporarily secure in place on the opposite side of the glass panel, also making sure the rubber gasket is present. Repeat this at the other end of the glass panel, using another bracket.

With the glass panel and fixings in place hold the glass panel up to each newel post at the top, bottom and intermediate newel post (if required) of the staircase and locate the required height of the handrail by resting the handrail over the top of the glass panels. (this is a two man job)

Lay the handrail onto the glass panel brackets and mark the height onto the newel posts. (see fig 2)

Using these marks you must now create and fit the handrail to the newel post as per the Axxys Stairparts Fitting Instructions.

If you are not confident in how to do this, it would be best to consult a trade professional.

Note: After you have done this please remove the glass panels.

Glass Panel Assembly and Positioning

With the handrail and baserail fixed in place, you must now install a glass panel at the top and bottom of the staircase, plus either side of any intermediate newels you may have installed using the 99mm spacing as before (Fig. 2).

Now in order to space the remainder of the glass panels evenly, measure the distance in mm between the centre points of any 2 panels/brackets already fitted. Now divide this number by 385 and round up to the nearest whole number, then divide the original measurement by the whole number and this is your exact centre spacing measurement. Always make sure the centre measurement is no more than 385mm.

Example - 1850mm between centre points of panels divided by 385mm = 4.80, rounded up to 5, then take the centre spaced measurement 1850mm divided by 5 = 370mm which is the exact spacing measurement for 4 more panels. (See fig 2)
To fit your brackets to your handrail and baserails, you will need to fit these at the same time for each of your panels, an exploded view is above, but please see all steps for accurate and precise fittings.

To fit your brackets to your handrail and baserails,

Take the section that screws to the rail this will have 2 screw holes in the top/bottom (depending on the way round you have it) and align the centre point of the bracket to the edge of the measurement (you have taken in the Glass Panel Assembly and Positioning section in fig 2), mark the two holes and drill a pilot hole to 35mm deep and insert the screws provided.

Slide your rubber gasket onto the bracket that you have fitted to your rail, ensuring that it is the correct way round.
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**fig 7**

Take your glass panel and line it up over your two bracket and slide it up to sit flush next to your rubber gaskets on both the top and the baserail.

**fig 8**

**fig 9**

Slide your other rubber gasket onto the bracket ensuring that it is the correct way round and sit it flush to the glass panel.

**fig 10**
Take the fixing screw and insert it into the bracket on both brackets and tighten. Once tightened your panel will be secure, repeat these stages for each glass panel and bracket assembly.

For Landings ensure that the distance between panels is no more than 99mm and that each panel is vertically straight.

Always refer to the axxys Stairparts fitting instructions for all other stairpart fitting instructions and take care when installing.