

Installation of Non-Fire Rated & Certifire Approved FD30 & FD60 Fire Resistant Screens

Please read all the instructions prior to starting installation.

Fire resistant screens are constructed to the requirements set out in the glass manufacturer's glazing certificate.

Doorpac manufacturing drawings detail the requirements for bead profiles, pin lengths, pin spacings and glazing tape. Please ensure copies of this drawing are available for reference at installation.

All screens should be fitted in accordance with its fire certification and BS8214.

The screens are delivered to site palletised to suit the build program.

Depending on the overall size of the screen the glass may be supplied on a separate stillage to ensure it is not damaged in transit.

Each screen is clearly labelled so that the installer can quickly identify its correct location.

When moving screens on site care must be taken to ensure the frame is adequately supported to prevent damage to the glass or beading. Any transportation bracing should only be removed once the screen is in place and ready for installation.

The structural opening into which the screen is to be fitted must be suitable for the application and robust in its construction in order to achieve a secure installation throughout its lifetime.

Please note: Screen fixing screws must be steel, must suit the opening structure and securely penetrate the opening structure to a minimum 50mm depth.

Prior to Installation

If the screen has been supplied with glass for fitting on site ensure that the correct glass, intumescent glazing tape, and beading are on hand prior to installation. Should any items be damaged or missing please contact Doorpac for replacements.

Glass type, bead and glazing tape are critical to the fire resistance of the screen and CANNOT be substituted on site.

Wet trades must be complete. Screens should be considered second fix items. Humidity & temperature should be around those expected when the building is in normal use.

Prior to offering the screen up to the opening, check its dimensions and compare to the overall frame dimensions for the screen. The dimensions of the opening should be at least 10mm greater than the width and height of the screen. Take several measurements of the width and height to ensure that the dimensions are constant. Do not force the screen into position as distortion or damage may occur.

The structure into which the frame is to be installed must be suitable for the application & robust enough to provide a secure installation throughout its lifetime.

Installation

Position the frame into the opening ensuring it fits comfortably within the opening and flush to the wall.

The floor must be level. If not pack the frame using equivalent materials to the frame ensuring the sill is level along its full length.

Jamb fixing screws should be positioned within 150mm of the frame head and 150mm from the frame sill with intermediate fixings spaced equally at a maximum of 600mm centres. The minimum number of fixings in the height 4nr per jamb. Use additional fixings as the frame height increases to ensure that the 600mm maximum fixing centres is maintained.

On Narrow screens a minimum of 1nr screw should be fitted in the frame head and sill. As the frame width increases head and sill fixing screws should be positioned within 150mm of the frame jambs and then at a maximum of 600mm centres. Use additional fixings to ensure that the 600mm maximum fixing centres is maintained.

Pilot drill all the fixing positions.

In one of the jamb top fixing points use a suitable diameter drill to open out the hole to suit the fixing and then use a suitable drill bit to drill to the required depth in the opening structure.

Loosely secure the screen within the opening using this fixing point.

Adjust the position of the frame to ensure the frame is level in each plane and then drill & loosely fix the remaining fittings along the jamb.

Insert solid packers between the frame and the wall at the fixing points. Note: the packers should be the same width as the frame section less an allowance for the appropriate fire stopping. This will prevent the frame from distorting.

Tighten the fixings along the jamb.

Repeat for the opposite jamb checking the frame remains plumb and square prior to final tightening of the fixings.

Fix the sill to the floor ensuring it remains level and true along its full length.

Fix the frame head to the opening structure using the same technique as the jambs; using solid packers at the fixing points to prevent the frame from distorting.

Once all the fixings are secured, double check that the frame is level in each plane. Cap all exposed screw heads.

When screwing home the fixings take care not to over tighten the fixings as this may cause damage or distortion to the frame.

The gap between the frame and the supporting structure can now be filled in accordance to BS8214: 2016.

Fitting of Glass

Depending on site requirements and the size of the screen the glass and bead may be supplied loose for site fitting as follows:

Fire resistant screens are constructed to the requirements set out in the glass manufacturer's glazing certificate.

Doorpac manufacturing drawings detail the requirements for beads, pin lengths, pin spacings and glazing tape. Please ensure copies of this drawing are available for reference at installation.

If beads or glazing tape are missing DO NOT SUBSTITUTE missing items.

Glazing bead should be factory fitted to the perimeter of one side of the screen frame.

If glazing tape is not fitted line the face of the bead as noted in the manufacturing drawing.

Line the faces of the loose bead with the supplied glazing tape as noted in the manufacturing drawing.

Space the non-combustible setting block equally along the length of the sill and central to the glass.

Insert the glass from the non-beaded face of the frame ensuring it is adequately supported. Note: due to certificated tolerances the glass will need installing vertically.

Ensure the glass is tight up against the pre-installed bead.

With the glass supported insert a pre-taped vertical bead, push it tight against the glass and secure at the correct fixing spacings as noted on the drawing.

Ensure the glass is tight up against the pre-installed bead and repeat for the vertical bead on the opposite jamb.

Position the horizontal beads ensuring the mitres align correctly with those of the vertical beads and secure at the correct fixing spacings as noted on the drawing.

Fitting of Architrave

If architraves have been provided loose, pre-sized, mitred and machined for Hoffman fittings for installation without further cutting then:

On a clean flat surface, place the left- and right-hand architrave jambs with an architrave head to form a goal post. Insert the Hoffman fittings into the pre-machined cut-outs. Lift the goal post up and place against the frame to give a consistent reveal around the frame and pin in position.

Where architraves are supplied in uncut lengths, mitre and cut the architrave on site prior to pinning into place.

As a guide, mitre and cut the architrave to give a 16mm reveal between the edge of the architrave and the edge of the frame. This will maintain a consistent look between doorsets and screens.

Unfinished screen frames should be painted immediately after installation using a good quality paint system in accordance with the paint manufacturer's instructions.

Further information is contained in the Operating and Maintenance Manual.