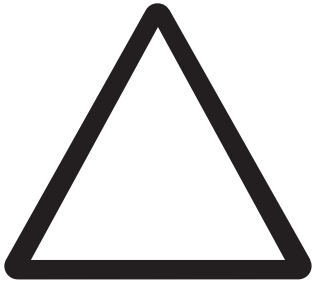


CAUTION



SAFETY: Large windows and glass units are heavy and may be hazardous. Great care MUST be taken to avoid injury during manual handling and particular precautions are required when working at height. The following instructions and recommendations should be followed. Failure to do so may affect the guarantee and the long term performance of the window and glazing.

Ref EJ_M_0001_B



WOOD. AT THE HEART
OF A GOOD WINDOW

A Guarantees

In keeping with our quality policy, JELD-WEN offers the following guarantees on its products. These guarantees are subject to JELD-WEN UK Terms and Conditions of Sale. Defects that are caused in whole or in part by failure to adhere to JELD-WEN UK recommendations relating to storage, handling, installation, decoration, glazing and maintenance, are not covered by these guarantees

- 10 10-year guarantee against manufacturing defects**
- 10 10-year guarantee on insulating glass units**
Windows glazed on site are not covered by this guarantee. Where windows are supplied factory glazed all elements of the glazing system are covered by this guarantee. Only insulating glass units supplied by JELD-WEN UK are covered by this Guarantee, these are stamped and identified accordingly.
- 30 30-year guarantee against fungal attack**
Against rot and fungal attack on all external timber components.
- 10 10 year guarantee on Hi-build factory painted external joinery**
- 6 6 year guarantee on Hi-build factory stained external joinery**

Exceptional wear and tear of hardware through extreme use is not covered. JELD-WEN will accept no responsibility for products cut down in size after receipt, or when utility or structural strength is impaired in fitting or application of hardware.

Hinges, aluminium rails and other hardware fitted must never be painted, and must be kept clean and lightly lubricated at all times. Use Vaseline or neutral oil. Keep rivets and moving parts lightly lubricated. Lubricate at least once a year, in coastal areas and/or places with high pollution, clean and lubricate more often.

The fitting instructions where supplied must be followed and the assembly, fitting procedures described must be strictly adhered to. Copies of product fitting instructions are available for download from www.jeld-wen.co.uk

All joinery shall be installed correctly in accordance with normal trade practices and adequately maintained in service.

In the case of replacement windows, reveals must be sterilised before new joinery is fixed.

All undecorated joinery supplied in the white must be suitably primed or stained without delay after receipt and all joinery supplied primed must receive further coats (undercoat and top coat) of paint within six months of purchase. If primed, and in particular basecoat stain finishes have deteriorated because of prolonged exposure, the surface must be properly prepared and re-primed before finishing. Knotting solution should be applied over any visible knots on primed or part finished painted products. Those products supplied with a basecoat stain need either a second basecoat, or an application of medium to high build stain within 3 months of exposure.

These are the minimum requirements and further finishing coats must be applied to the manufacturers' recommendations to afford full protection.

Take care not to paint over any form of weather stripping, as this will adversely affect their performance.

Any surfaces subsequently cut, particularly those exposing end grains, must be brush coated with preservative and if required for paint finish must also be primed before the joinery is fixed in position in accordance with British Standards or Euro codes.

Standard insulating glass units must not be used in areas of high humidity, e.g. swimming pools or similar. They should also not be used within 300mm from a door or within 800mm of the floor.

Contact JELD-WEN if in doubt for your particular installation or refer to Page 08 of JELD-WEN's Timber Window Technical Specification Guide available upon request (Tel 0845 122 2890) or as a download from www.jeld-wen.co.uk

The decorative finish applied to external joinery must be maintained in service and moisture must not be allowed to penetrate into the timber throughout its life.

Regular maintenance of the paint or stain finish of the frame is essential for the long-term performance of all the components of your timber windows. The period between maintenance checks will vary depending on the type of paint or stain finish and also the local conditions for the site. External joinery products must be cleaned at a maximum of six monthly intervals using a mild non-abrasive cleaner and soft cloth. Both internal and exterior faces should be cleaned.

Make regular checks to ensure that any drainage holes, channels and spaces are kept clear. Use a soft flexible brush or pipe cleaner with care to remove obstructions.

Finished joinery is guaranteed against blistering, cracking, flaking or erosion excluding natural resin exudation and movement around knots.

Annual inspection should be made and touching up carried out as necessary in areas of wear and tear (for example, exposed areas of window sills or where the paint film has been breached).

Guarantees to the finished product are also on condition that:

- No physical or chemical damage to the window or coating has occurred
- No repairs or alterations to the surrounding buildings have occurred which are detrimental to the joinery performance.
- No failure of the coating has occurred caused by failure of ancillary products, or glazing.
- No damage to the coatings has occurred prior to, or during, installation.
- No damage to the coating has occurred, caused by bad maintenance of the building or poor design of the building.

Further installation and handling information is available by downloading a copy of JELD-WEN's Timber Windows Technical Specification Guide at www.jeld-wen.co.uk

Building Regulations

Your building designer should ensure compliance with these requirements. If you are in any doubt contact either them or JELD-WEN for advice on the correct specification for your application.

C Performance

When tested in accordance with BS6375: Part 1: 2004 Performance of windows and doors, Classification for weather tightness and guidance on selection and specification.

Sovereign Stormsure windows achieve, an exposure rating of 2000pa, an air permeability of Class 4 and meet the requirements of BS6375: Part 2: 1987 Operation and strength performance.

D Care of windows on site:

Any shrink wrapping or other protective packaging should be kept in place as long as possible.

All windows should be stored under cover, preferably inside a building. If they are stored outside they should be kept clear of the ground on level bearers and protected from dampness and sunlight with a tarpaulin. Polythene sheet should not be used as this can act as a greenhouse and encourage hot, humid conditions.

There should be space for air to circulate around the windows.

Pre-finished or glazed windows need extra care to avoid damage to the painted surfaces or glass breakage. They should be stored vertically to prevent water accumulating on top of the glazing units.

When being removed from storage windows should be lifted, not dragged. They should be lifted by the main frame and carried in a vertical position to avoid distortion.

E Installation

Fully finished windows should be installed into preformed openings. Basecoated or primed windows can be “built-in” and used as a template around which the outer construction (i.e. brickwork) can be formed.

Lintels should be positioned clear of the window head as windows must not be used for load bearing.

Preformed openings should be larger than the frame that will be fitted into them. A tight fit could cause distortion of the frame. A clearance of at least 5mm should be provided all around the frame, however, clearances more than 15mm will be difficult to seal after the frame is installed. Building regulations require the installation to achieve air tightness.

There should be a correctly installed damp proof course around all openings to prevent moisture moving from the outer construction to the inner construction.

There should be adequate insulation fitted between the inner and outer construction to reduce heat loss at the window openings. The window should be positioned in the opening such that it covers at least 30mm of the insulation.

NOTE:

- Proprietary insulating products may have particular requirements for installation. In these cases follow the manufacturer's recommendations.
- When installing windows into timber frame constructions care must be taken to allow for differential movement between the external construction and the timber frame and for fire stopping at the window opening.

Windows should be fitted without distortion. They should be levelled, and upright. The position should be checked with a spirit level.

Windows should be secured in the openings by fixings at the jambs positioned approximately 150mm from the head and sill and then at no more than 450mm centres in between. Fixings are not required at the heads and sills up to frame widths of 1800mm. For wider frames up to 3600mm a central fixing will be required.

When securing the frame care must be taken not to distort the components as this could impair the operation of the window.

F Finishing: Staining or Painting

Standard JELD-WEN external joinery products are supplied either base coat stained or primed. Fully finished products are sprayed with Hi-Build Paint or Hi-Build Stain.

As soon as these primed or stained joinery products are exposed to the elements they are at risk. Under normal building conditions primed windows require an undercoat within 6 months. Those with stain base coat require either a second base coat, or an application of a medium to high build stain within 3 months of exposure. These are the minimum requirements and further finishing coats that will need to be applied to manufacturers' recommendations to afford full protection.

If primed, and in particular base coat stain finishes have deteriorated because of prolonged exposure, the surface must be properly prepared and re-primed before finishing.

G Maintenance of windows and glazing materials

Regular maintenance of the paint or stain finish of the frame is essential for the long term performance of all the components of your timber windows. The period between maintenance checks will vary depending on the type of paint or stain finish and also the local conditions for the site. Check any finish guarantees you may have for further information.

Make regular checks to ensure that drainage holes, channels and spaces are kept clear. Use a soft flexible brush or pipe cleaner with care to remove obstructions.

Exterior and interior of frames should be wiped with a damp cloth 2 - 3 times a year.

With modern factory applied Hi-Build stains and paints a recoating cycle is recommended in accordance with the conditions of the guarantee. Refer to www.jeld-wen.co.uk for more information.

H Insulating Glass Units

IGUs should comply with BS EN 1279.

If windows are supplied un-glazed you should check with your Building Designer or JELD-WEN to ensure you fit the correct IGU specification for your application.

Safety Glazing

Where glazing is vulnerable to human impact it should be designed to resist breaking or if it breaks it should break safely.

Further advice on safety glazing can be obtained from;

England and Wales, Approved Document N:1998 edition incorporating 2000 amendments

Scotland, BS 6262:Part 4:2005

Northern Ireland, Technical Booklet V:2000 and Amendment Booklet AMD3:2006

Toughened glass should be marked BS 6206 class A or B or BS EN 12150 class 1 or 2.

Laminated glass should be marked BS 6206 class A or B or BS EN 14449 class 1 or 2.

Glazing should be in accordance with BS 6262:1982 BS 8000:Part7:1990 and BRE Digest 453.

Preparation

Remove all beads from the window making a mark on the inside of the rebate and corresponding bead which will help you to replace them in the same position when you glaze the window. Pencil mark each bead on the outside with the fixing pin positions at no more than 50mm from each end and spaced at a maximum of 150mm along the length of the bead.

The larger “hockey stick” bead must always be fitted to the bottom rebate.

Place the “hockey stick” bead on the platform and make a corresponding mark on the rebate platform. These pencil marks will show you where to position the bead packers and the pins when pinning the bead.

Remove all dust, grease and loose materials from the rebate. Any moisture on the timber should be wiped off using a clean paper towel or other absorbent material to give a dry surface.

Check the condition of any primer or basecoat stain on the frame, in particular the rebate and glazing surfaces of the beads. If the window has been exposed to the elements and shows signs of weathering, the frame including the rebate and beads should be re-primed or stained before glazing.

Check that the unit fits into the frame and can be centralised by standing the unit on the setting blocks so that there is a 5mm clearance at the bottom of the unit.

The spacer bar should ideally be slightly below the sightline.

Drained and Vented Glazing

The windows are designed to be glazed using a drained and vented system.

IGU SIZE

- The Insulating Glass Unit (IGU) should be sized such that there is a nominal 5mm clearance between the edge of the IGU and the glazing rebate platform all around.
- To determine the correct size for the IGU, measure the tight rebate size in both height and width and deduct 10mm from both.

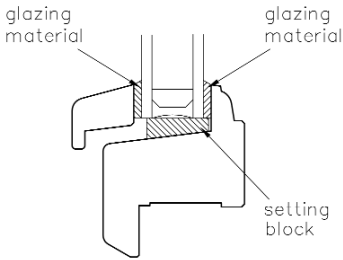


Fitting and Fixing Guidelines for

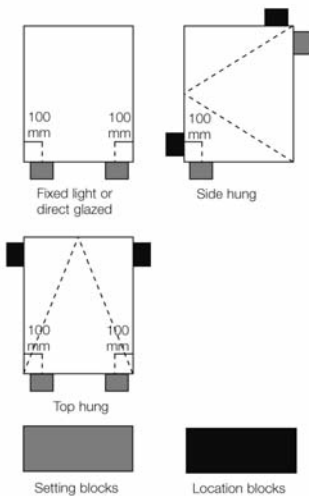
Sovereign Stormsure Windows

SETTING AND LOCATION BLOCKS

- To maintain the 5mm clearance around the IGU and the rebate platform the IGU should be supported on setting blocks at the bottom and positioned using location blocks in other places.



- When properly fitted setting and location blocks should completely fill the clearance between the edge of the IGU and the rebate platform.

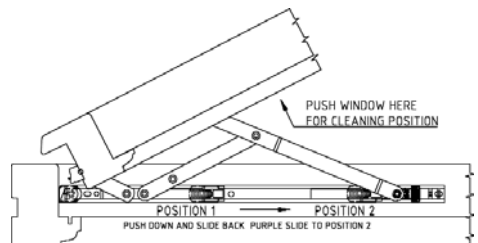


GLAZING SEALS

- The width of the glazing rebate is such as to allow up to 3mm of glazing material either side of the IGU. This glazing material can be either load bearing foam or mastic tapes or non-load bearing sealsants. Non-load bearing materials will require distance pieces to maintain the correct thickness of sealant throughout the glazing process.
- The glazing material should be applied to both both faces of the IGU (i.e. between the rebate upstand and the IGU and between the IGU and the bead.)
- Some types of glazing material can be applied in-line with the top of the rebate upstand or bead while others will need to have excess material trimmed or cleaned away so as to shed water.
- Place 3mm bead packers on the bottom rebate platform at the fixing points.
- Place the bottom bead in position first and apply pressure while pinning the bead to compress the glazing material.
- Fix the bead in position with non rusting pins at no more than 50mm from each corner and at no more than 150mm between pins.
- Place the side and then top beads and fix as above.

FIRE EGRESS PROJECTING HINGE

- This hinge operates as standard to the fire escape position. To move into cleaning position, partially close the sash then push down and slide the purple slide to position 2 (ensure it is located in the slots). Push the sash open.
- To re-set the sash to the fire escape setting, fully close then fully open the sash.



PROJECTING HINGE WITH HOOK RESTRICTOR

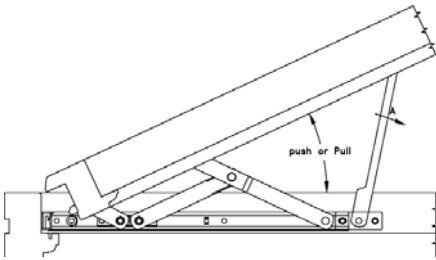
- Can also be used with butt hinges.
- Restrictor prevents the sash opening more than 100mm initially. The location may not be the same as shown for all hinge types.
- To release pull the sash slightly in from the fully restricted position.

TOP HUNG OPERATION

- Gently 'lift' the restrictor arm 'A' to disengage restrictor and push sash open. Some top hung sashes will have a restrictor fitted to both sides.

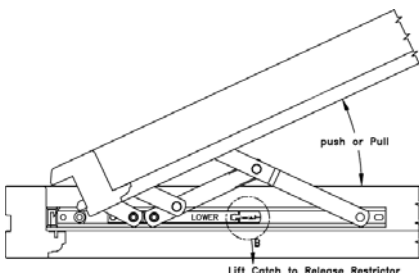
SIDE HUNG OPERATION

- Gently 'pull' the restrictor arm 'A' towards you and push sash open.



PROJECTING HINGE WITH INTEGRAL RESTRICTOR

- Gently 'lift' the restrictor catch 'B' to disengage restrictor and push the sash open. The restrictor automatically re-engages when the window is returned to the fully closed position.
- To release pull the sash slightly in from the fully restricted position.



Fitting and Fixing Guidelines for

Sovereign Stormsure Windows

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