



**REHAU**<sup>®</sup>

Unlimited Polymer Solutions



## REHAU WINDOW SYSTEMS

INSTALLATION AND MAINTENANCE RECOMMENDATIONS

# REHAU WINDOW SYSTEMS

## MAINTENANCE RECOMMENDATIONS

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**'The Window system you have just purchased requires very little maintenance. However, so as to ensure that your new PVC-U windows retain their value and their appearance you should bear the following tips in mind':**

### **Ventilation Tips**

Windows made from the REHAU System are designed to close very tightly and save energy. So your new windows will be considerably better sealed than your old ones and if they are double glazed will, under normal circumstances, prevent condensation.

However, where humidity levels are high, condensation may occur on cold surfaces in the room. This can easily be counteracted with correct ventilation. Windows should be opened on a daily basis sufficiently frequently to allow the moist air out and fresh air in. If you have tilt/turn style windows a room can be ventilated by leaving the windows in the tilt position for a few minutes.

### **Cleaning Tips**

- Slightly dirty frames can be cleaned with warm water and washing up liquid.
- Extremely dirty frames should be cleaned with REHAU's special cleaning fluid - available from your local REHAU Window Systems dealer.
- Abrasive cleaners as well as dry cleaning with a duster should be avoided. Cleaning solutions and polishes that contain solvents or thinners should not be used. Aggressive chemicals like these will attack the window frame and seals.
- Rust patches can only appear as a result of external metal particles from the outside atmosphere.

### **Fittings Maintenance Tips**

- All moving parts of fittings should be lightly oiled once or twice a year to ensure that the windows will always open smoothly.
  - Most fittings have a built-in adjustment facility so if a window should begin to stick contact your local dealer as only a trained window installer has the skill to make the necessary adjustments.
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# REHAU WINDOW SYSTEMS

## INSTALLATION RECOMMENDATIONS

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### General

These installation recommendations apply to the REHAU Tritec, S706 and REHAU Edge window systems. They regulate the installation of the elements by the fabricator or the installation firm. If the elements are distributed via dealers, DIY centres, etc., attention has to be drawn to these recommendations. Additional information can be obtained from The British Plastics Federation Code of Practice documents.

### Transportation

When transporting the elements they must be protected against damage caused by slippage, distortion, twisting or bowing. Soft interlayers should be used to prevent windows lying directly against each other. Packaging that completely encloses the window may cause a build up of heat. In this situation sealed transparent foils must not be used with coloured windows. The packaging must have no adverse effect on the quality of the element.

### Storage

Windows stored on a construction site should be on a firm base of timber battens and protected from soiling.

Elements must be protected against direct sunlight using tarpaulin or other similar material.

### Installation Preparation

Clearance to proceed with the installation work must be obtained from the customer. The going-in allowance must be adhered to.

### Fit

The installation must be perfectly level, vertically plumb and correctly aligned. The fabricator must notify the customer in writing of any deviation from these regulations. Failure to do so may invalidate the guarantee.

### Fixing

Special window fixings, such as stepped metal strips or lugs, can be used in most situations and allow expansion movement, particularly with larger elements. These are fixed to the frame with screws or by location between the frame lugs. Fixing to the building fabric is achieved with screw and wallplug, nails or shot riveting. Nails or rivets must not be used to fix to frames.

Hollow dowels of steel or plastic with a central screw can be used directly through the frame profile and into the building fabric. They provide horizontal and vertical support but must not be used for the lower member as the rebate bed is punctured allowing water ingress.

All anchoring materials must be protected against corrosion, be suitable for the building fabric and able to withstand the stresses transmitted. With walls of light construction, breeze, aerated concrete, etc., extra long plugs should be used to ensure an adequate fixing.

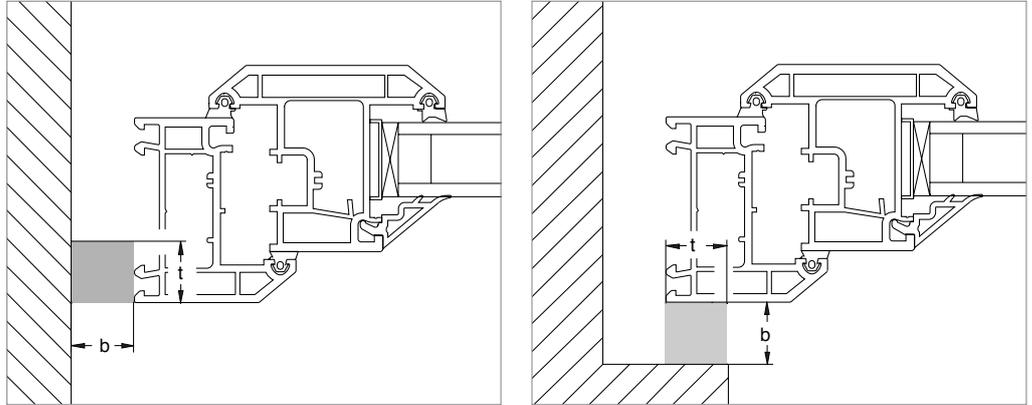
Due to thermal expansion fixings must be at least 200mm externally - or 150mm internally - from any weld or joint. To spread the load the fixings should, if possible, be positioned close to the hinges.

The distance between fixings must not exceed 700mm. When fixing to steel rails or surrounds the fixing should be a minimum of 500mm centres.

Sills or other profiles must not bridge expansion joints and affect the joint movement.

Packing must be located at fixing points.

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### Minimum Sealant Joint Width

White profile	Element size upto 3.0m = 5mm	Element size upto 3.0m - 4.0m = 7.5mm
Non-White profile	Element size upto 2.5m = 7.5mm	

*The gap depths - t - depends on the gap width - b - and has to be checked against sealant manufacturers recommendations.*

### Movement Compensation

The joint between the element and building must incorporate an adequate gap to ensure no damage can result from linear expansion, contraction or building distortion.

This will depend on the size and colour of the element, and mastic choice of the external seal. e.g., the expansion range of silicone is 25% of the gap width.

Where the reveal is rebated, a minimum 10mm distance must be maintained between frame edge and rebate.

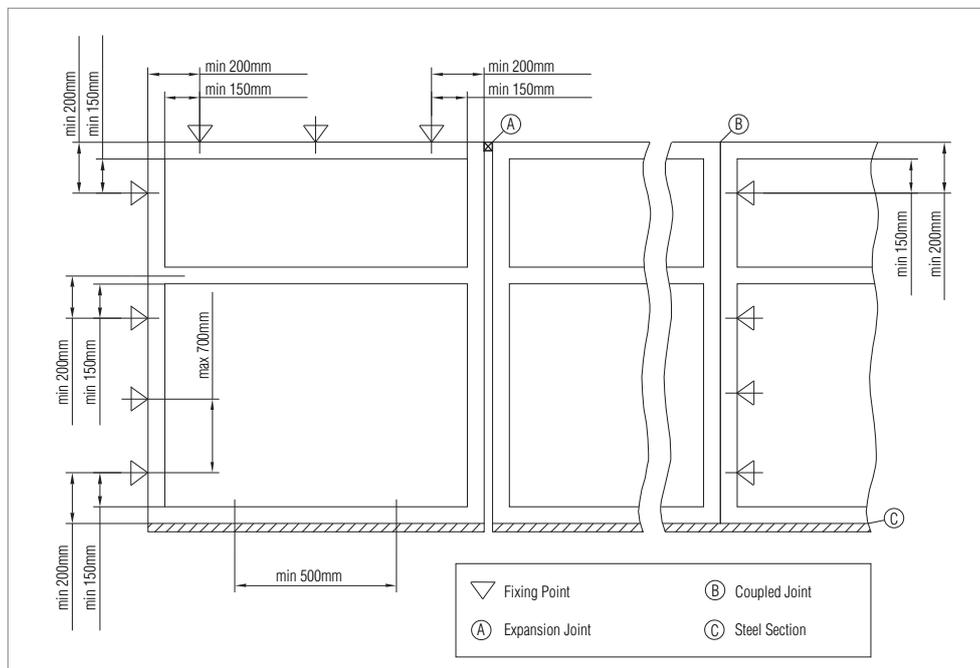
Expansion differentials depend upon temperature and frame material.

PVC-U White = 1.6mm/m maximum.

PVC-U coloured = 2.4mm/m maximum.

### Installation

Prior to any work starting the aperture and element size require checking to ensure compatibility. The window is trued up by means of wedges. These should be removed after the element has been fixed. If this is not possible, care must be taken to ensure stresses, set up by the building, cannot be transmitted to the element and the linear expansion is not inhibited. Wedges must only be set at the points where the window is attached to the building fabric. Extreme care must be taken when installing elements at below 5°C and any impact to frame and sash must be avoided. The protective foil must be removed immediately after installation. When plastering in the profile surfaces must be protected.



### Masonry Union

The joint between elements and masonry must contain a foam sealing strip, polyethylene foam or similar material to act as a backing for the pointing mastic. If thermal or sound insulation is critical then the joint can be completely filled with mineral or sound insulation wool. Filling the gaps with mortar or plaster is not permissible. If foam filling is to be used, the manufacturer's instructions must be carefully read and strictly adhered to. The foam must be compatible to the frame material and the sealing mastic. REHAU-PU foam Art. No. 257371 is recommended. Contact with any coloured or foiled surface must be avoided. Areas of cured PU foam must not remain exposed to the atmosphere. Bituminous materials must not be used for these joints. Windows should be attached by fixing bolts, not fixing brackets, if foam filling is to be applied to the areas between the elements and building fabric.

### Sealing

RAULASTIC M Art. No. 258023 or similar elastic mastic should be used to form the external seal. This must be compatible with the frame material. The mastic manufacturer's instructions should be observed. If a damp proofing membrane has been specified, construction must be carried out in accordance with the prevailing circumstances and the architect or surveyors specifications.

### Cleaning and Acceptance

The elements should be cleaned up after installation and accepted by the customer.

Failure to do so may result in later complaints about dirt or damage. REHAU special cleaner Art. No. 252190 can easily clean the elements as can normal domestic washing up liquids in luke-warm water. The use of abrasive cleaners and particularly solvents such as acetone, cellulose thinners, etc. must be avoided, as the surface will be degraded. Where soiling is of a strong greasy or oily nature, special cleaners can be used. Details of cleaning agents that have been tested by REHAU can be obtained from the Technical Applications Department.

### Additional Security Installation Instructions

Rigid packing must be inserted between the frame and wall adjacent to fixings and locking points.

All fixings must be suitable for the wall material and be positioned close to the locking points.

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Our verbal and written application engineering advice is based upon experience and the best of our knowledge. However it is to be regarded as non-binding information. Working conditions and use under conditions for which the product was not intended and over which we have no influence exclude any claim resulting from our information. We recommend that a suitable check is made as to whether the REHAU product is suitable for the envisaged purpose. Application, use and processing of the products is carried out beyond the scope of our control and are therefore carried out exclusively at your own responsibility. If liability should still apply, then this is restricted, in the case of all damage, the value of the goods supplied by us and used by you. Our warranty applies to the consistent quality of our products as per our specification and in accordance with our general terms and conditions of delivery and payment. This document is protected by copyright. All rights based on this are reserved. No part of this publication may be translated, reproduced or transmitted in any form or by any similar means, electronic or mechanical, photocopying, recording or otherwise, or stored in a data retrieval system.

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