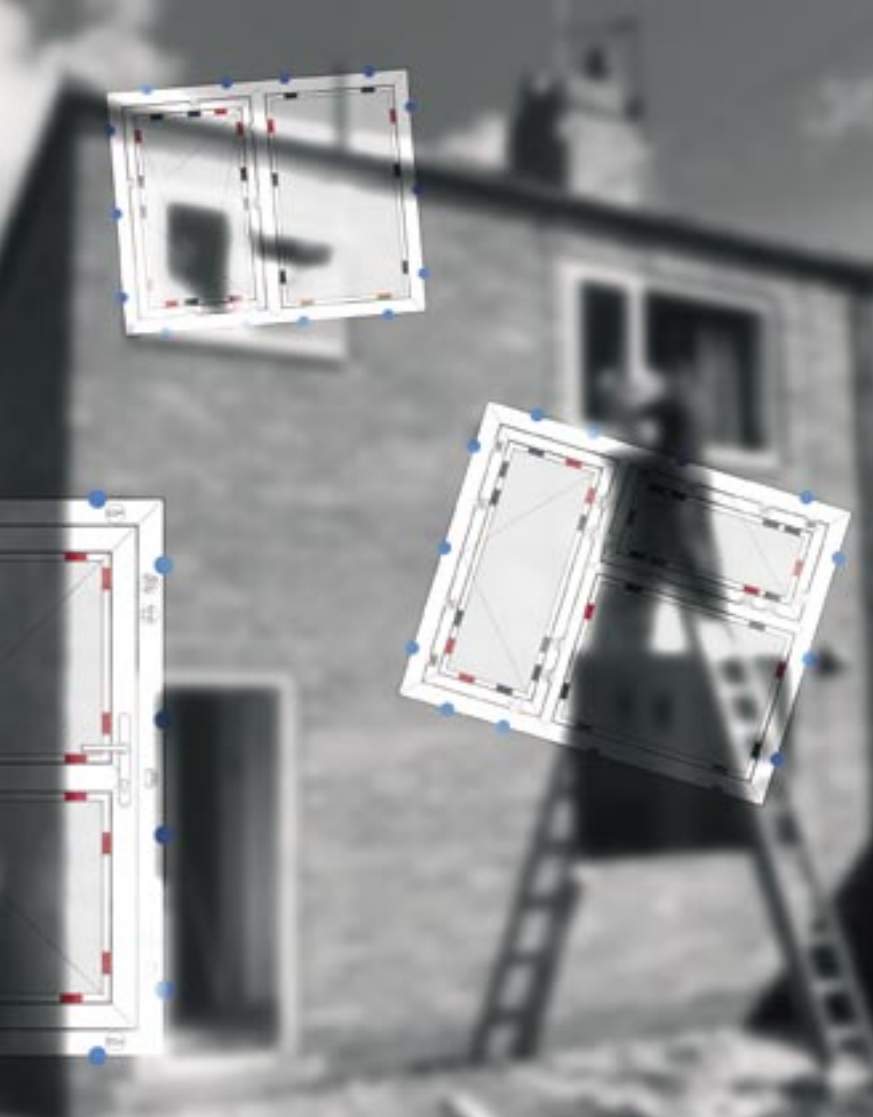


WE OPEN SPACE



Roto Frank Ltd

PVC-U window and door systems

Fixing and glazing packer recommendations

The information contained in this publication is intended for guidance purposes only. Whilst every effort has been made to ensure the accuracy of the information presented, it is the reader's responsibility to establish the veracity of the information and to ensure that the information is appropriate to a specific installation's requirements. Roto Frank cannot be held responsible for any omissions or errors and reserves the right to change the information, without notice, at any time. If you are in any doubt, you should consult the supplier of your doors and/or windows.

ROTO FRANK

Roto Frank is the world's leading designer and manufacturer of hardware for all types of windows, doors and environmental management control systems.

Founded in 1935, Roto has been responsible for some of the most innovative fittings to be used in the building industry. We have established an international reputation for product quality, performance and originality.

Renowned for our range of tilt and turn hardware – over half of the world's tilt and turn installations use Roto systems – we offer an extensive range of fittings to suit all popular types of windows and doors in virtually every situation.

In addition to a great range of exceptional products, when you choose Roto you are assured of the very best in service, customer care and technical support before, during and after installation.

Our dedication to customer satisfaction gives you total confidence every step of the way.

INTRODUCTION

This booklet is intended to offer guidance on the positioning of fixings, the normal use of glazing packers and additional glazing packers for enhanced security of PVC-U doors and windows.

Reference should also be made to:

BS 6262: 1982 - Code of practice for glazing for buildings.

BS 6262 Part 4:1994 – Glazing for buildings. Safety related to human impact.

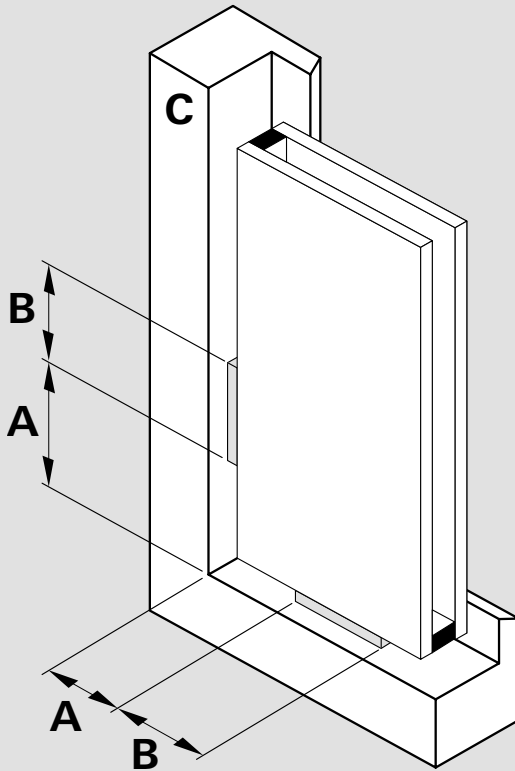
BS 8213 Part 4: 1990 – Windows, doors and rooflights. Code of practice for the installation of replacement windows and door sets in dwellings.

Glass & Glazing Federation - Code of practice for the installation of white high impact modified PVC-U windows.

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1. STANDARD PACKER POSITIONS

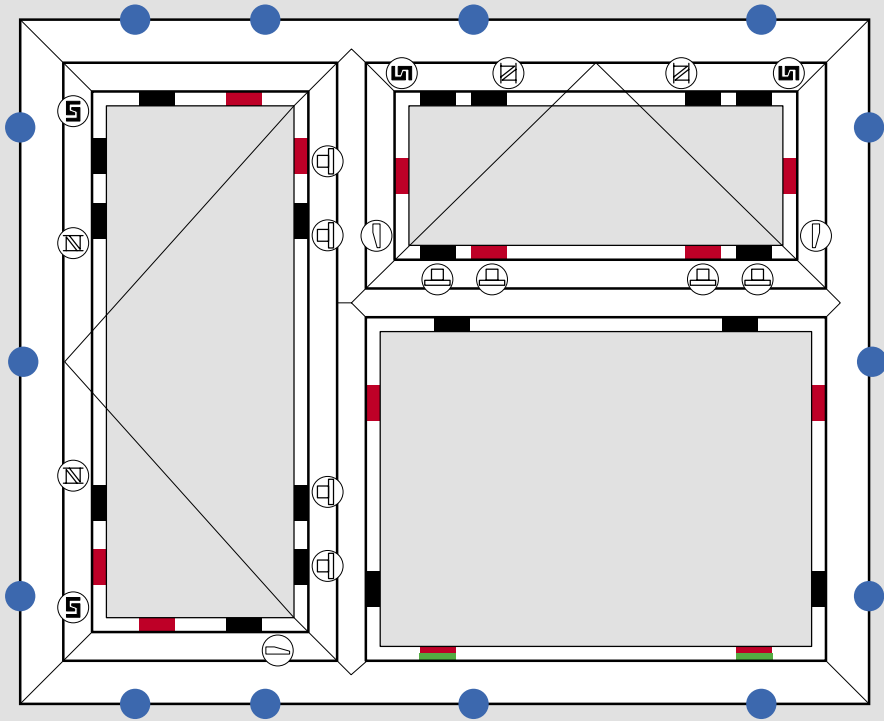


- A** Distance of the packer from the corner, approximately 80 mm.
- B** The length of packer, approximately 80 mm.
- C** The sash or frame profile.

Please note that, in this publication, bridge packers are only shown in fixed light glazing. This will not be the case for all profile systems, as a variety of different types of packer are used and specified. Profile system manufacturer's glazing recommendations should be adhered to.

Remember that this document is for guidance only and we cannot include all references and variations.

2. CASEMENT WINDOWS



Fixing point

Perimeter fixing shall be positioned as follows:

- a) 1 No. fixing 150 - 250mm from a corner, both horizontally and vertically.
- b) 1 No. fixing 150 - 250mm at either side of a mullion or transom where it meets the outer frame.
- c) Fixings shall occur at no more than 600mm centres.
- d) Where frames are coupled together, through-frame fixing 100mm from each end and centres not exceeding 400mm are recommended.

Bridge packer

A minimum of two bridge packers per fixed light, positioned not to interfere with drainage paths. Additional packers are required for lengths greater than 1500mm.

Glazing packer

Should be sealed in position during glazing using a high modulus acetoxo silicone.

Additional glazing packers for enhanced security

Positioned adjacent to locking points in sashes.

Run-up blocks (factory fitted)

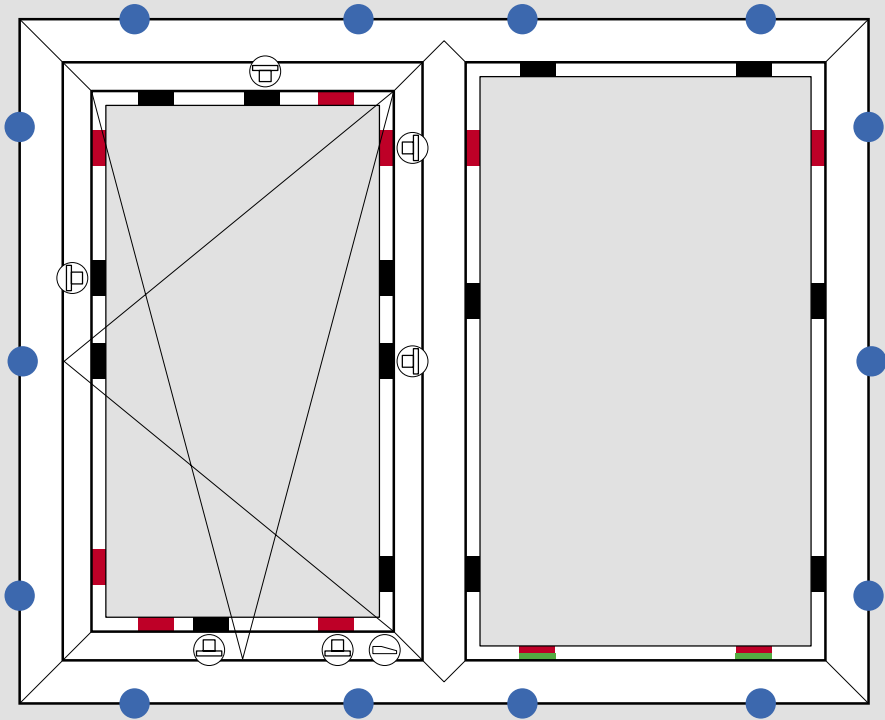
- a) 1 No. required for side hung sashes.
- b) 2 No. required for top hung sashes.

Cavity interlocks (factory fitted)

Locking point

Hinge protection device

3. TILT & TURN



 **Fixing point**

Perimeter fixing shall be positioned as follows:

- a) 1 No. fixing 150 - 250mm from a corner, both horizontally and vertically.
- b) 1 No. fixing 150 - 250mm at either side of a mullion or transom where it meets the outer frame.
- c) Fixings shall occur at no more than 600mm centres.
- d) Where frames are coupled together, through-frame fixing 100mm from each end and centres not exceeding 400mm are recommended.

 **Bridge packer**

A minimum of two per fixed light, positioned not to interfere with drainage paths. Additional packers are required for lengths greater than 1500mm.

 **Glazing packer**

Should be sealed in position during glazing using a high modulus acetoxo silicone.

 **Additional glazing packers for enhanced security**

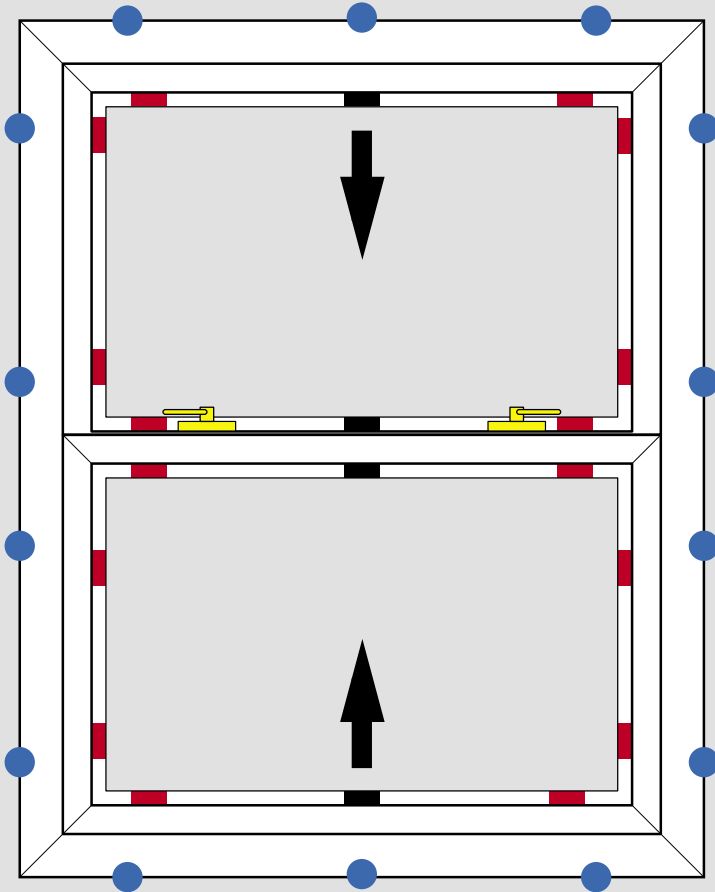
Positioned adjacent to locking points in sashes.

 **Run-up blocks (factory fitted)**

- a) 1 No. required

 **Locking point**

4. VERTICAL SLIDER



Fixing point

Perimeter fixing shall be positioned as follows:

- a) 1 No. fixing 150 - 250mm from a corner, both horizontally and vertically.
- b) Fixings shall occur at no more than 600mm centres.
- c) Where frames are coupled together, through-frame fixing 100mm from each end and centres not exceeding 400mm are recommended.

Glazing packer

Should be sealed in position during glazing using a high modulus acetoxysilicone.

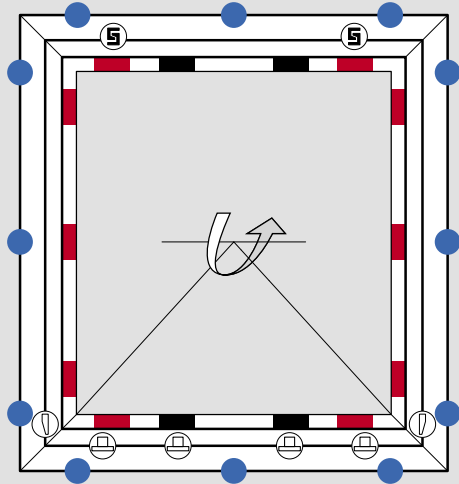
Additional glazing packers for enhanced security

Positioned strategically to prevent excessive movement between the sash and sealed unit.

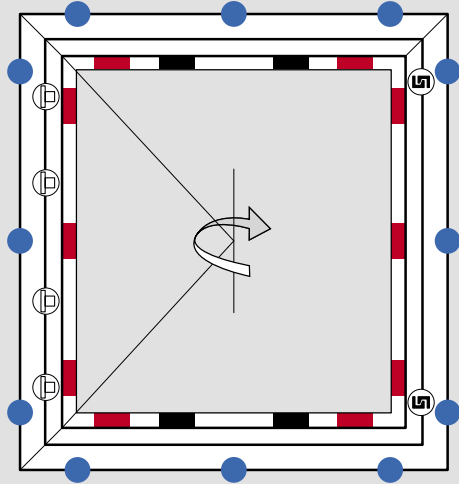
Fitch catch

5. REVERSIBLE WINDOWS

Top swing



Side swing



 **Fixing point**

Perimeter fixing shall be positioned as follows:

- a) 1 No. fixing 150 - 250mm from a corner, both horizontally and vertically.
- b) 1 No. fixing adjacent to each of the hinge pivot points.
- c) Fixings shall occur at no more than 600mm centres.
- d) Where frames are coupled together, through-frame fixing 100mm from each end and centres not exceeding 400mm are recommended.

 **Glazing packer**

Should be sealed in position during glazing using a high modulus acetoxysilicone.

 **Additional glazing packers for enhanced security**

Positioned adjacent to locking points in sashes.

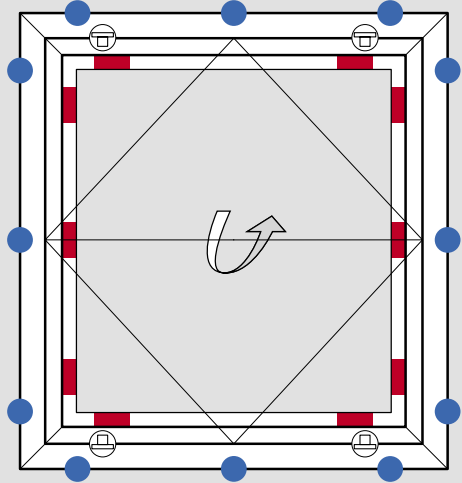
 **Run-up blocks (factory fitted)**

- a) 1 No. required for side swing.
- b) 1 No. required for top swing.

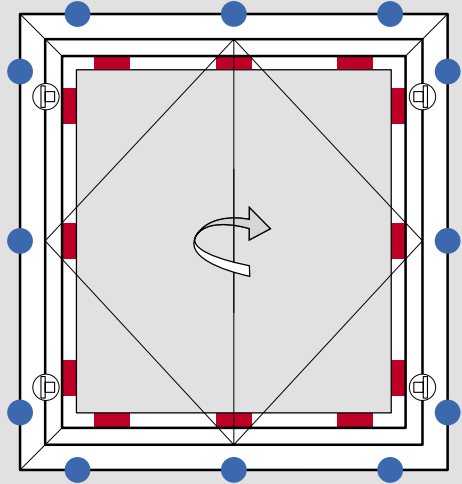
 **Locking point** **Hinge Protection Device**

6. PIVOT WINDOWS

Horizontal pivot



Vertical pivot



 **Fixing point**

Perimeter fixing shall be positioned as follows:

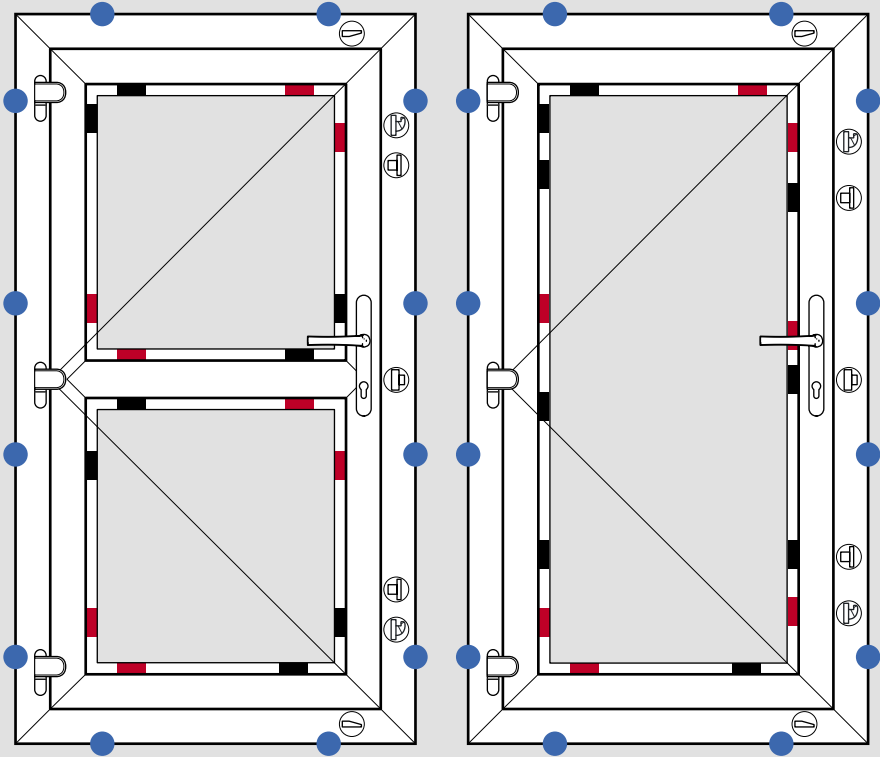
- a) 1 No. fixing 150 - 250mm from a corner, both horizontally and vertically.
- b) 1 No. fixing adjacent to each of the hinge pivot points.
- c) Fixings shall occur at no more than 600mm centres.
- d) Where frames are coupled together, through-frame fixing 100mm from each end and centres not exceeding 400mm are recommended.

 **Glazing packer**

Should be sealed in position during glazing using a high modulus acetoxysilicone.

**Locking point**

5. RESIDENTIAL DOOR



 **Fixing point**

Perimeter fixing shall be positioned as follows:

- a) 1 No. fixing 150 - 250 mm from a corner, both horizontally and vertically.
- b) Fixings shall occur at no more than 600 mm centres.
- c) Where frames are coupled together, through frame fixing 100 mm from each end and centres not exceeding 400 mm are recommended.

 **Glazing packer**

Should be sealed in position during glazing using a high modulus acetoxysilicone.

 **Additional glazing packers for enhanced security**

Positioned adjacent to locking points in sashes.

 **Run-up blocks (factory fitted)**

1 No. required (aids with sash positioning on closing the door).

1 No. required (one at the head as an anti-lift block).

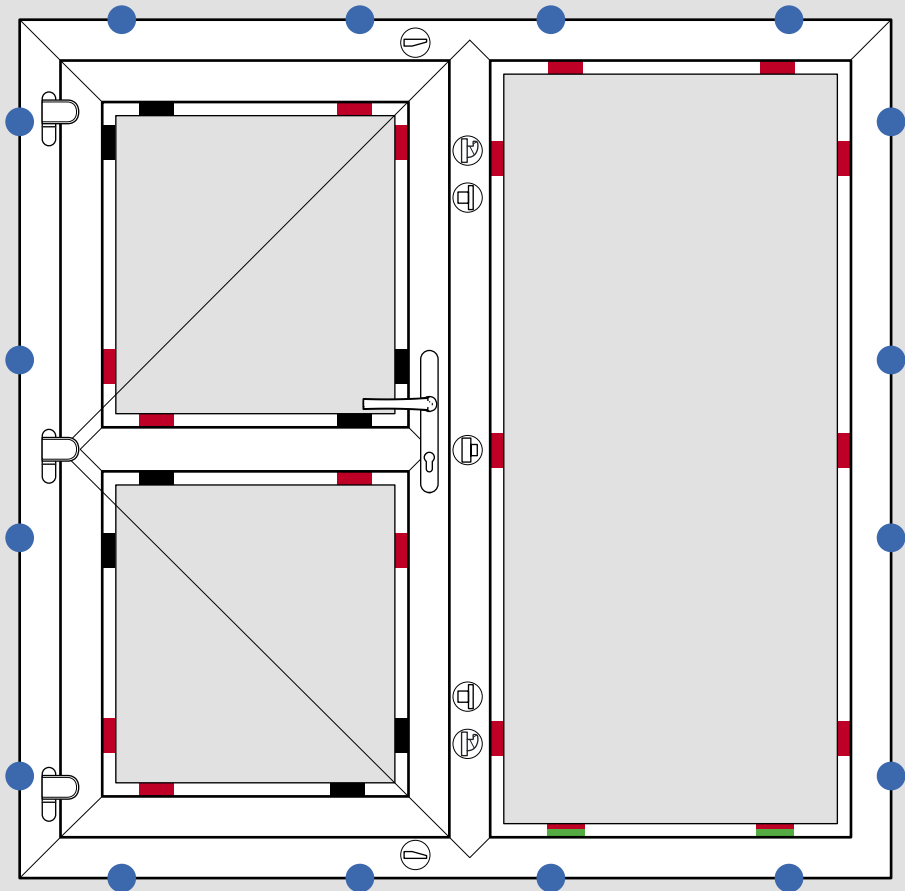
 **Locking point (deadbolt)**

 **Locking point (hook bolt)**

 **Locking point (compression/mushroom cam)**

 **Door hinge**

6. DOOR AND SIDE SCREEN



Fixing point

Perimeter fixing shall be positioned as follows:

- a) 1 No. fixing 150 - 250mm from a corner, both horizontally and vertically.
- b) 1 No. fixing 150 - 250mm at either side of a mullion or transom where it meets the outer frame.
- c) Fixings shall occur at no more than 600mm centres.
- d) Where frames are coupled together, through frame fixing 100mm from each end and centres not exceeding 400mm are recommended.

Bridge packer

A minimum of two per fixed light, positioned not to interfere with drainage paths. Additional packers are required for lengths greater than 1500mm.

Glazing packer

Should be sealed in position during glazing using a high modulus acetoxysilicone.

Additional glazing packers for enhanced security

Positioned adjacent to locking points of sash.

Run-up blocks (factory fitted)

1 No. required (aids with sash positioning on closing the door).

1 No. required (one at the head as an anti-lift block).

Locking point (deadbolt)

Locking point (hook bolt)

Locking point (compression/mushroom cam)

Door hinge

7. IN-LINE PATIO



 **Fixing point**

Perimeter fixing shall be positioned as follows:

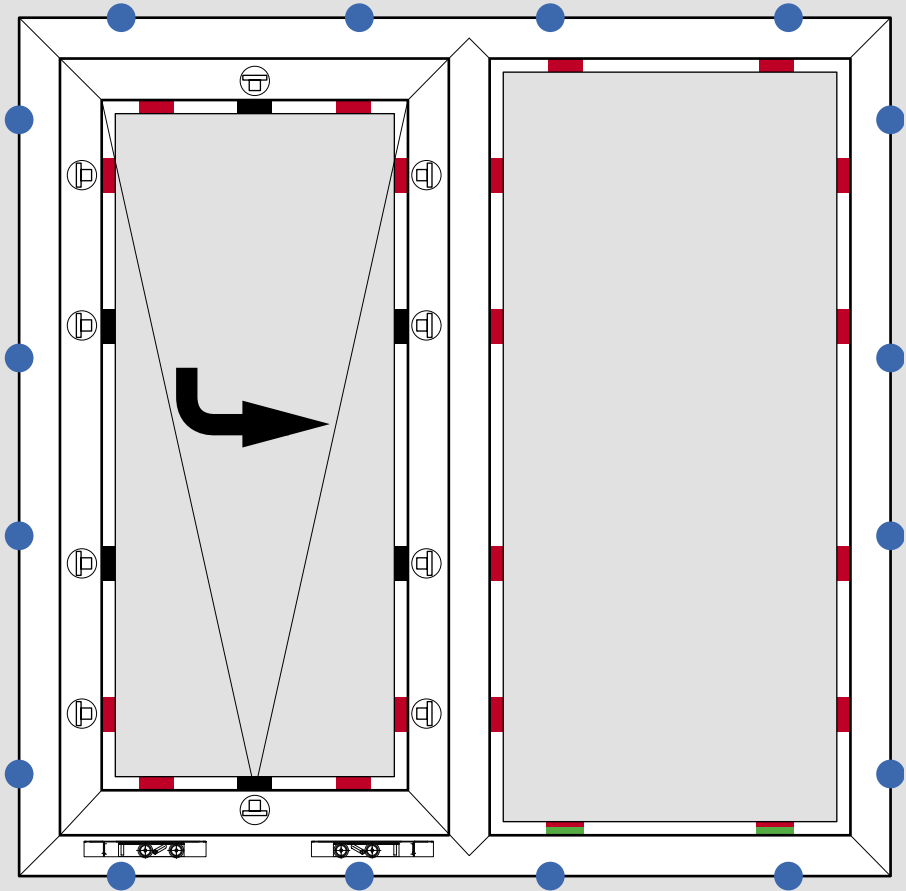
- a) 1 No. fixing 150 - 250mm from a corner both horizontally and vertically.
- b) Fixings shall occur at no more than 600mm centres.
- c) Where frames are coupled together, through frame fixing 100mm from each end and centres not exceeding 400mm are recommended.

 **Glazing packer**

Should be sealed in position during glazing using a high modulus acetoxysilicone.

 **Additional glazing packers for enhanced security** **Locking point** **Tandem rollers**

8. TILT & SLIDE



 **Fixing point**

Perimeter fixing shall be positioned as follows:

- a) 1 No fixing 150 - 250mm from a corner both horizontally and vertically.
- b) 1 No fixing 150 - 250mm at either side of a mullion or transom where it meets the outerframe.
- c) Fixings shall occur at no more than 600mm centres.
- d) Where frames are coupled together, through frame fixing 100mm from each end and centres not exceeding 400mm are recommended.

 **Bridge packer**

A minimum of two per fixed light, positioned not to interfere with drainage paths. Additional packers are required for lengths greater than 1500mm.

 **Glazing packer**

Should be sealed in position during glazing using a high modulus acetoxo silicone.

 **Additional glazing packers for enhanced security**

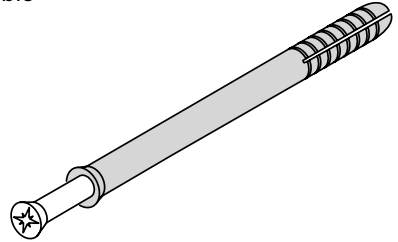
Positioned adjacent to locking points in sashes.

**Locking point****Tandem rollers**

9. POPULAR FIXING & PACKERS

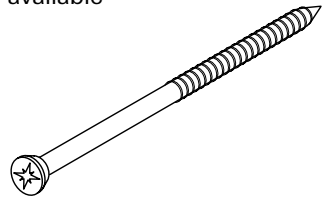
10 mm expansion bolts - Other sizes are available

- a) 75mm
- b) 100mm
- c) 120mm
- d) 140mm
- e) 165mm



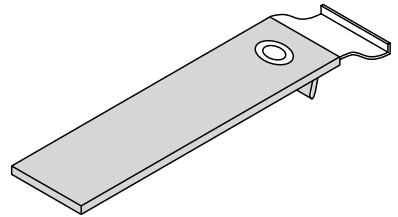
6.3mm masonry fixing screw - Other sizes are available

- a) 32mm
- b) 70mm
- c) 82mm
- d) 100mm



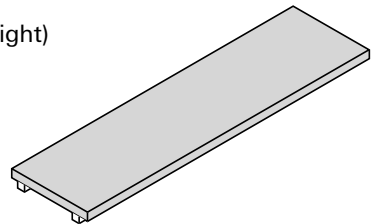
Window fixing lug (Clip-in) - Profile specific

- a) Standard frame
- b) Vertical slider frame
- c) In-line patio frame



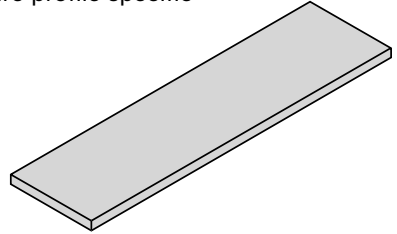
Bridge Packer - Profile specific

- Various sizes are available (length, width & height)



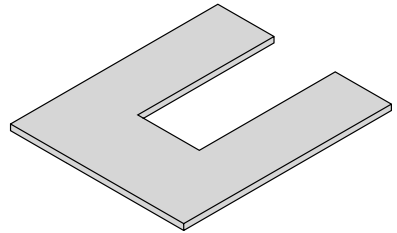
Flat Glazing Packer - Packer width and length are profile specific

- a) 1mm thick
- b) 2mm thick
- c) 3mm thick
- d) 4mm thick
- e) 5mm thick



Frame Fixing Packer - Packer width and length are profile specific

- a) 1mm thick
- b) 2mm thick
- c) 3mm thick
- d) 4mm thick
- e) 5mm thick



Note: the lists above are not exhaustive and alternative sizes may be available.



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