





Glazing Recommendations

Building Solutions

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Automotive

GLAZING RECOMMENDATIONS

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GLAZING RECOMMENDATIONS

GENERAL GUIDELINES

Introduction

Glazing gaskets should be applied in one full length and cut approximately 1% oversize. This is then glued at the centre of the top member.

The correct glazing gaskets and beads for each glass thickness can be obtained from the relevant tables (refer to pages 5-7)

Only REHAU supplied gaskets should be used. The use of non-REHAU gaskets will invalidate any warranty or third party certification and the correct sealing pressures cannot be ensured.

The regulations of the glazing unit manufacturers and BS6262 requirements should be considered. Additionally, where glazing takes place on site, sashes should not be removed from frames.

At temperatures below 5°C extreme care should be taken when glazing as PVC-U becomes more brittle in these conditions.

bottom of the rebate should be at least 6mm.

The glazing units must be properly packed according to the sash type, at a maximum 100mm from the corners, and evenly supported. The packers must not inhibit the drainage route and should be secured with an adhesive material to prevent slippage (See Page 11). After the packing is completed the sashes must be checked and in correct working order. If the sashes bind, the packers should be adjusted.

To avoid corner stresses, oversize beads should not be inserted and only a non-metallic hammer may be used to snap the beads in.

To remove the glass, remove the glazing seal before unclipping the bead. The longest beads should be removed first by inserting a tool at the mid-point and easing out. Care should be taken at all times not to damage the beads. This applies especially to foiled or painted beads.

All normal types and thicknesses of glass and sealed units from 4mm-44mm can be used for glazing.

Where leaded lights are used the lead must not extend to the edge of the glazing units. Gaskets cannot adequately seal around such local variations. REHAU glazing tables are only applicable where the gaskets seal against a smooth surface.

Acrylic and polycarbonate sheets must not come into contact with co-extruded glazing beads or EPDM gaskets. Only silicone or foam gaskets can be used.

Types of Glazing

Internal glazing

The gap between the edge of the glass and the Co-extruded glazing beads are fitted to the inside with RAU-SIK, EPDM or foam glazing seals on the outside.

External glazing

Co-extruded beads are fitted to the outside with RAU-SIK, EPDM or foam glazing seals on the inside.

For both internal and external glazing when using non-co-extruded beads, glazing gaskets in either RAU-SIK, EPDM or foam are inserted inside and outside. The wedge gaskets are used on the inside only.

Security Gasket

For increased security against intrusion when externally glazing windows, use the security gasket Art. No. 576130 on the inside.

The gasket has the same compression as the glazing seal Art. No. 863990. Art. No. 576130 should not be stored longer than 6 months.

Scribed Method

The beads installed by the scribed method are applied as follows:

- The horizontal beads are square cut, with the vertical beads cut at an angle to overlap the horizontal ones.
- Shaped beads are better scribed by end milling the vertical beads to give the appropriate form.
- Silicone sealant must be applied between the square cut end bead and the rebate corner. Also, the joining of the beads at the corners must be sealed.



Coloured and Foiled beads must always be scribed

Pressure Equalisation and Drainage of **Glazing Rebate**

Ventilation and drainage of the glazing rebate is achieved through slot-shaped apertures 5x25mm, in accordance with the cross-section, page 8 and 9. The necessary ventilation in the upper sash transverse member is also achieved by milling slots.

Integral Gasket (IG)

All profiles are supplied with Integral Gasket. The gasket width is predetermined, therefore is suited to the most common glazing thicknesses.

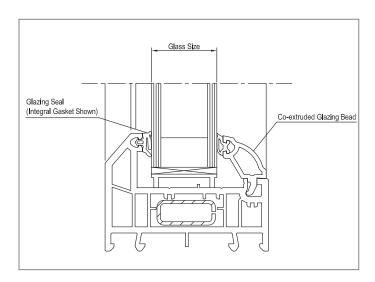
For glazing unit thicknesses that recommend a manually inserted gasket the Integral Gasket will need to be removed and replaced. By only changing the bead, this may result in over/under compression of the Integral Gasket and therefore loose or tight fitting glazing units.

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GLAZING RECOMMENDATIONS

GLAZING BEADS AND GASKET DETAILS

Co-extruded Glazing beads and Sealed Unit Glazing options



Glass size (mm)	Glazing bead (GB)	Gasket (G)
8	GB 36.5	G 5 or 38
9	GB 36.5	G 4
10	GB 36.5	G ⁺ or 3 or 36/46 or 70/71 (or IG)
11	GB 36.5	G 2 or 46
12	GB 36.5	G 1
18	GB 26.5	G 5 or 38
19	GB 26.5	G 4
20	GB 26.5	G ⁺ or 3 or 36/46 or 70/71 (or IG)
21	GB 26.5	G 2 or 46
22	GB 22.5	G 5 or 38
23	GB 22.5	G 4
24	GB 22.5	G ⁺ or 3 or 36/46 or 70/71 (or IG)
25	GB 22.5	G 2 or 46
26	GB 18.5	G 5 or 38
27	GB 18.5	G 4
28	GB 18.5	G ⁺ or 3 or 36/46 or 70/71 (or IG)
29	GB 18.5	G 2 or 46
30	GB 14.5	G 5 or 38
31	GB 14.5	G 4
32	GB 14.5	G ⁺ or 3 or 36/46 or 70/71 (or IG)
33	GB 14.5	G 2 or 46
34	GB 10.5	G 5 or 38
35	GB 10.5	G 4
36	GB 10.5	G ⁺ or 3 or 36/46 or 70/71 (or IG)
37	GB 10.5	G 2 or 46
38	GB 6.5	G 5 or 38
39	GB 6.5	G 4
40	GB 6.5	G ⁺ or 3 or 36/46 or 70/71 (or IG)
41	GB 6.5	G 2 or 46
42	GB 6.5	G 1
44	GB 7.8	G ⁺ or 3 or 36/46 or 70/71 (or IG)



BS5713 (Specification for Hermetically Sealed Flat Double Glazing Units) permits a tolerance of \pm 1mm for overall thickness of sealed units. When referring to the glazing tables ensure that the actual sealed unit thickness is for the correct gaskets selected.

Due to the manufacturing tolerances, if glazing proves too loose or tight select the next size of gasket, larger or smaller as appropriate.

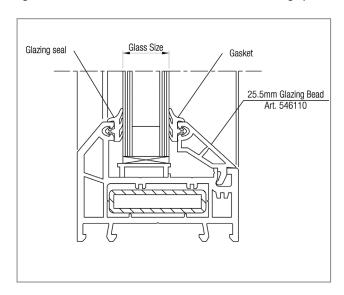
*Denotes RAUSECUR gasket Art. No. 576130. RAUSECUR is recommended in all external glazing options.

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GLAZING RECOMMENDATIONS

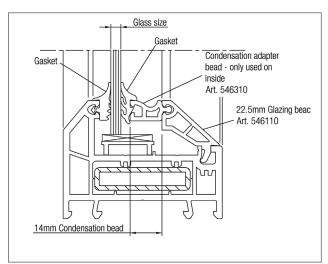
GLAZING BEADS AND GASKET DETAILS

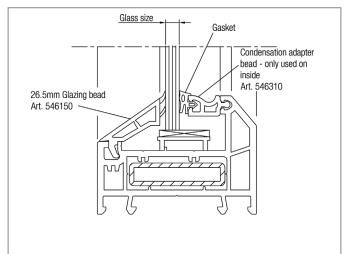
Glazing beads with Insertable Gasket and Sealed Unit Glazing options



Glass size (mm)	Glazing bead (GB)	Gasket (G)
16	GB 25.5	G 5+5
17	GB 25.5	G 5+4 or 12+20 or 52+60
18	GB 25.5	G 4+4 or 12+20 or 52+60
19	GB 25.5	G 4+3* or 12+20 or 52+60
20	GB 25.5	G 3+3* or 11+20 or 51+60
21	GB 25.5	G 2+2 or 11+20 or 51+60
22	GB 25.5	G 2+1 or 11+20 or 51+60

Single Glass Glazing options





Glass size (mm)	Glazing bead (GB)	Gasket (G)
3	GB 25.5 + 546310	G 12+20 or 52+60
4	GB 25.5 + 546310	G 12+20 or 52+60
5	GB 25.5 + 546310	G 12+20 or 52+60
6	GB 25.5 + 546310	G 11+20 or 51+60
7	GB 25.5 + 546310	G 11+20 or 51+60
8	GB 25.5 + 546310	G 11+20 or 51+60

Glass size (mm)	Glazing bead (GB)	Gasket (G)
4	GB 26.5 + 546310	G 5 or 38
5	GB 26.5 + 546310	G 4
6	GB 26.5 + 546310	G 3 or 36/46
7	GB 26.5 + 546310	G 2 or 46



Drainage holes in the condensation bead are not necessary when the bead is square cut. This will allow the water to run to both ends.

GLAZING BEAD TABLE

Glazing bead identification	Scribed bead angle	Art. No	Drawing		
Glazing bead with gasket groove					
GB 25.5	41.5°	White 546110 Foiled 576290*			
Co-extruded flip	pper glazing beads				
GB 6.5	24.8°	White 560580 Foiled 594330			
GB 7.8	Sculptured	White 546860 Foiled 586865			
GB 10.5	Sculptured	White 503720 Foiled 573720*			
GB 14.5	Sculptured	White 503681 Foiled 573679			
GB 22.5	39°	White 546140 Foiled 576320			
	Sculptured	White 551510 Foiled 581580*	100		
GB 26.5	35.0°	White 546150 Foiled 576330*			
	10.7°	White 560620			
GB 36.5	7.8°	White 560660			
Low level 'Bubble' glazing beads					
GB 18.5	44.5°	White 546132 Foiled 576132			
	Sculptured	White 546572 Foiled 576572			

GASKETS TABLE

Glazing bead identification	Art No.	Drawing
EPDM Gaskets	ı	
G 1	Black 864010*	22
G 2	Black 864000 White 241071	
G 3	Black 863990 White 241081	
G ⁺ RAUSECUR recommended for all external glazed options	Black 576130	
G 4	Black 863980* White 241091*	
G 5	Black 864260	

Glazing bead identification	Art No.	Drawing
G 36	Black 864780	S (1)
G 38	Black 864790*	
Silicone gasket		
G 46	White 833991	
EPDM single glazing gaskets	3	
G 11	Black 864440	mes /
G 12	Black 864450*	Jewa Jesa
G 20 (wedge gasket for internal use only)	Black 864460	R
Silicone single glazing gaske	ets	
G 51	White 836880*	Service Control of the Control of th
G 52	White 836890	/1.58 J
G 60 (wedge gasket for internal use only)	White 836900	
Foam gasket		
G 70	Black 240542 White 240532	
G 71 (Universal IG seal or glazing gasket)	Black 279316	
Casement gaskets		
Black EPDM White silicone	863930 835090	Q\$
Black EPDM	863940*	ŷ?
Black EPDM White EPDM (Common window gasket)	864670 241061	© >
Black EDPM White EPDM (Common T&T/door gasket)	864610 241051	À
Black EDPM	864230	J.s
Black EDPM	864350*	Jes .
Black Foam White Foam	241141 241131	<u>~</u>



^{*} Denotes availability as a special order. Minimum order quantities may apply. Please contact your regional sales office for further information.

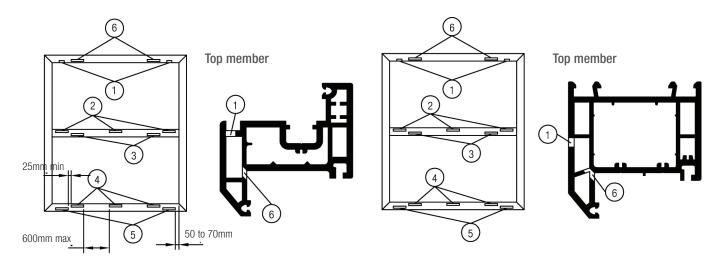
GLAZING RECOMMENDATIONS

DRAINAGE

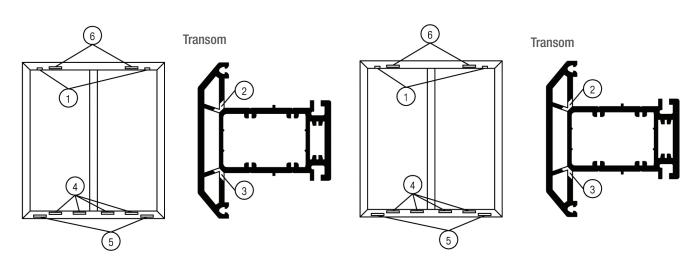
Drainage and Pressure Equalisation

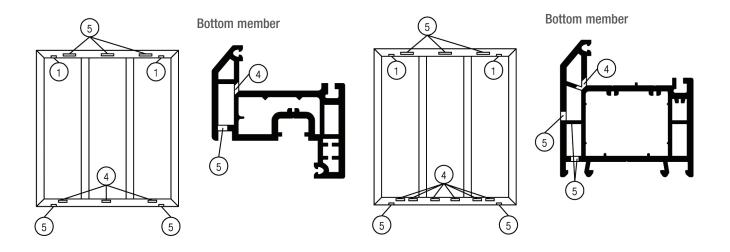
Sash with Transom/Mullion

Fixed Glazing in Subframe with Transom/Mullion



1 Optional detail to optimise ventilation



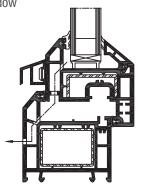


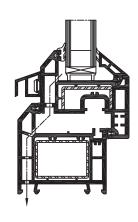
GLAZING RECOMMENDATIONS

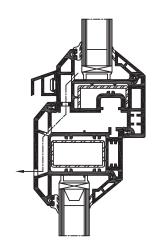
DRAINAGE

Drainage Paths

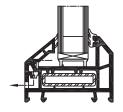
1. Tilt/Turn Window

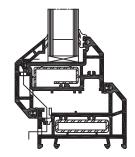


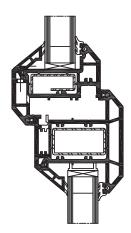




- 2. Casement Window
- a) Externally glazed

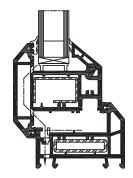


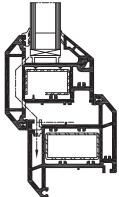




b) Internally glazed

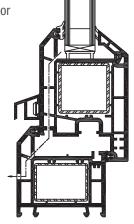






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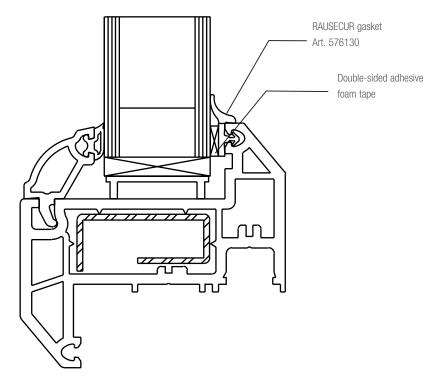
3. Residential door



Pressure equalisation and drainage of glazing rebateVentilation to and drainage is achieved by 5mm x 25mm slots.

GLAZING RECOMMENDATIONS

RAUSECUR INSTALLATION INSTRUCTIONS



Outside of window

Installation Instructions

- **1** Make sure that the glass is absolutely clean.
- 2 Mitre cut the RAUSECUR as other glazing gaskets (Bending around corners is not possible).
- 3 Insert the gasket into glazing seal groove and ensure that it is properly held along its whole length. Apply a little sealing mastic to the corners of the glazing gasket.

When additional security is demanded, put adhesive on the ends of the RAUSECUR and glue it for 10-20mm into the glazing groove.

Security can also be increased by the use of glazing clips which are available through various suppliers.

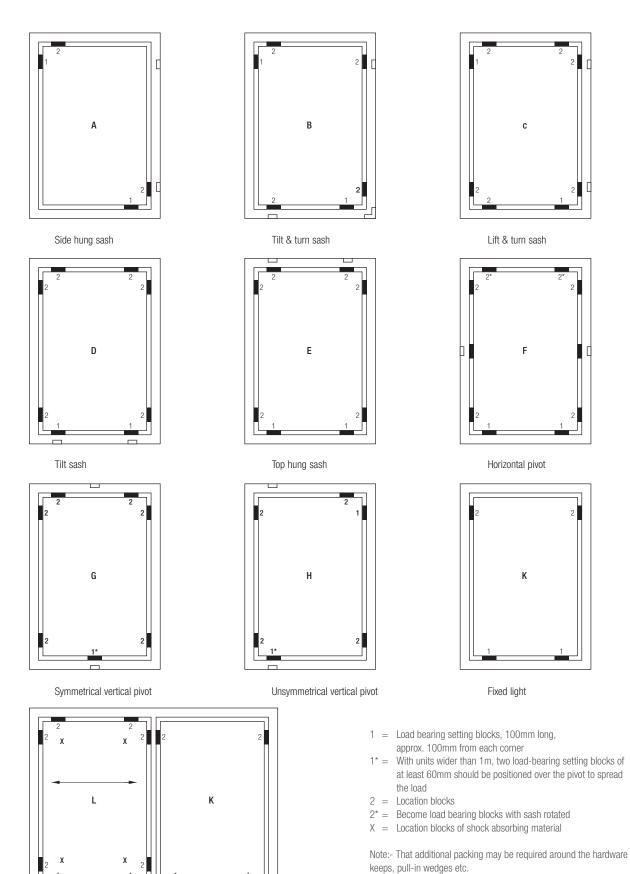
- **4** Turn up the protective tape for approximately 250mm in each corner. Place the glazing unit into the rebate and pack the sealed unit correctly as detailed in the 'Packing instructions'.
- **5** Fit the glazing beads and, whilst applying localised hand pressure against the glass, remove the protective tape by pulling the previously turned-up ends.

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GLAZING RECOMMENDATIONS

SEALED UNIT PACKING INSTRUCTIONS

Sliding element



GLAZING RECOMMENDATIONS

GLASS DEDUCTIONS FOR LEADED/GEORGIAN SEALED UNITS

Internally glazed

Listed below are the glazing distances between unit edges

A = Frame edge to sash glass edge

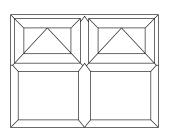
B = Frame edge to fixed glass edge

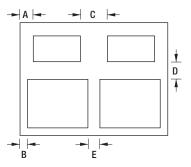
C = Sash glass edge to sash glass edge

D = Sash glass edge to fixed glass edge

 $\mathsf{E} = \mathsf{Fixed}$ glass edge to fixed glass edge

Note: Sizes are based on a 5mm Bridge Packer and 4mm Glazing Packer.





Profile Combination	TOTAL70c Art. No	TOTAL70s Art. No.	Position	Dimension (mm)
52mm Outer frame	546075/815	546645/415	A =	86.0
75mm T Sash	546106/855/586	546685/455	B =	37.0
69mm Transom/Mullion T	546085	546665	C =	137.0
69mm Transom/Mullion Z	546095	546675	D =	88.0
			E =	39.0
62mm Outer frame	546605/825	546735/425	A =	96.0
75mm T Sash	546106/855/586	546685/455	B =	47.0
69mm Transom/Mullion T	546085	546665	C =	137.0
69mm Transom/Mullion Z	546095	546675	D =	88.0
			E =	39.0
72mm Outer frame	546185/835	546655/435	A =	106.0
75mm T Sash	546106/855/586	546685/455	B =	57.0
69mm Transom/Mullion T	546085	546665	C =	137.0
69mm Transom/Mullion Z	546095	546675	D =	88.0
			E =	39.0

52mm Outer frame	546075/815	546645/415	A =	86.0
75mm T Sash	546106/855/586	546685/455	B =	37.0
82mm Transom/Mullion T	546475	546745	C =	150.0
82mm Transom/Mullion Z	546465	546755	D =	101.0
			E =	52.0
62mm Outer frame	546605/825	546735/425	A =	96.0
75mm T Sash	546106/855/586	546685/455	B =	47.0
82mm Transom/Mullion T	546475	546745	C =	150.0
82mm Transom/Mullion Z	546465	546755	D =	101.0
			E =	52.0
72mm Outer frame	546185/835	546655/435	A =	106.0
75mm T Sash	546106/855/586	546685/455	B =	57.0
82mm Transom/Mullion T	546475	546745	C =	150.0
82mm Transom/Mullion Z	546465	546755	D =	101.0
			E =	52.0

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GLAZING RECOMMENDATIONS

GLASS DEDUCTIONS FOR LEADED/GEORGIAN SEALED UNITS

Externally glazed

Listed below are the glazing distances between unit edges

A = Frame edge to sash glass edge

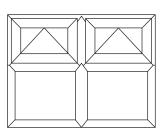
B = Frame edge to fixed glass edge

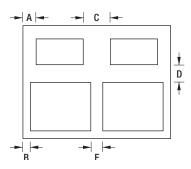
C = Sash glass edge to sash glass edge

D = Sash glass edge to fixed glass edge

 $\mathsf{E} = \mathsf{Fixed}$ glass edge to fixed glass edge

Note: Sizes are based on a 5mm Bridge Packer and 4mm Glazing Packer.





Profile Combination	TOTAL70c Art. No	Position	Dimension (mm)
52mm Outer frame	546075/815	A =	73.5
64.5mm Z Sash	546066	B =	37.0
69mm Transom/Mullion T	546085	C =	112.0
69mm Transom/Mullion Z	546095	D =	75.5
		E =	39.0
62mm Outer frame	546605/825	A =	83.5
64.5mm Sash Z	546066	B =	47.0
69mm Transom/Mullion T	546085	C =	112.0
69mm Transom/Mullion Z	546095	D =	75.5
		E =	39.0
72mm Outer frame	546185/835	A =	93.5
64.5mm Sash Z	546066	B =	57.0
69mm Transom/Mullion T	546085	C =	112.0
69mm Transom/Mullion Z	546095	D =	75.5
		E=	39.0

52mm Outer frame	546075/815	A =	73.5
64.5mm Z Sash	546066	B =	37.0
82mm Transom/Mullion T	546475	C =	125.0
82mm Transom/Mullion Z	546465	D =	88.5
		E =	52.0
62mm Outer frame	546605/825	A =	83.5
64.5mm Z Sash	546066	B =	47.0
82mm Transom/Mullion T	546475	C =	125.0
82mm Transom/Mullion Z	546465	D =	88.5
		E =	52.0
72mm Outer frame	546185/835	A =	93.5
64.5mm Z Sash	546066	B =	57.0
82mm Transom/Mullion T	546475	C =	125.0
82mm Transom/Mullion Z	546465	D =	88.5
		E=	52.0

GLAZING RECOMMENDATIONS

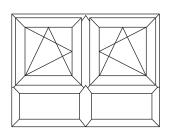
GLASS DEDUCTIONS FOR LEADED/GEORGIAN SEALED UNITS

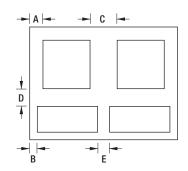
Tilt and Turn

Listed below are the glazing distances between unit edges

- A = Frame edge to sash glass edge
- B = Frame edge to fixed glass edge
- C = Sash glass edge to sash glass edge
- D = Sash glass edge to fixed glass edge
- $\mathsf{E} = \mathsf{Fixed}$ glass edge to fixed glass edge

Note: Sizes are based on a 5mm Bridge Packer and 4mm Glazing Packer.





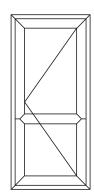
Profile Combination	TOTAL70c Art. No	TOTAL70s Art. No.	Position	Dimension (mm)
72mm Outer frame	546185/835	546655/435	A =	99.0
70mm Tilt & Turn Sash	546776	546695	B =	57.0
69mm Transom/Mullion T	546085	546665	C =	123.0
69mm Transom/Mullion Z	546095	546675	D =	81.0
			E =	39.0
72mm Outer frame	546185/835	546655/435	A =	99.0
70mm Tilt & Turn Sash	546776	546695	B =	57.0
82mm Transom/Mullion T	546475	546745	C =	136.0
82mm Transom/Mullion Z	546465	546755	D =	94.0
			E =	52.0

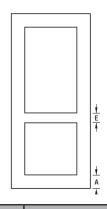
Doors

Listed below are the glazing distances between unit edges

 $\label{eq:A} A = \text{Frame edge to sash glass edge}$ E = Fixed glass edge to fixed glass edge

Note: Sizes are based on a 5mm Bridge Packer and 4mm Glazing Packer.





Profile Combination	TOTAL70c Art. No	TOTAL70s Art. No.	Position	Dimension (mm)
72mm Outer frame	546185/835	546655/435	A =	134.5
105.5mm T Sash	546635	546725	E =	75.5
105.5mm Z Sash	546625	546715		
105.5mm Midrail	546635	546725		
72mm Outer frame	546185/835	546655/435	A =	134.5
105.5mm T Sash	546635	546725	E =	52.0
105.5mm Z Sash	546625	546715		
82mm Midrail	546475	546745		

GLAZING RECOMMENDATIONS

GLASS DEDUCTIONS FOR LEADED/GEORGIAN SEALED UNITS

Door and Side panels

Listed below are the glazing distances between unit edges

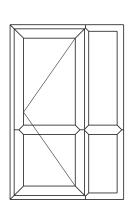
A = Frame edge to sash glass edge

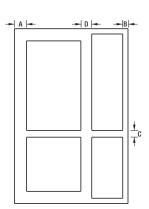
 $B = Frame \ edge \ to \ fixed \ glass \ edge$

C = Sash glass edge to sash glass edge

D = Sash glass edge to fixed glass edge

Note: Sizes are based on a 5mm Bridge Packer and 4mm Glazing Packer.





Profile Combination	TOTAL70c Art. No	TOTAL70s Art. No.	Position	Dimension (mm)
72mm Outer frame	546185/835	546655/435	A =	134.5
105.5mm Z Sash	546625	546715	B =	57.0
105.5mm Mullion (D)	546635	546725	C =	75.5
105.5mm Midrail (C)	546635	546725	D =	153.0
72mm Outer frame	546185/835	546655/435	A =	134.5
105.5mm T & Z Sash	546635/625	546725/715	B =	57.0
82mm Mullion T & Z (D)	546475/465	546745/755	C =	75.5
105.5mm Midrail (C)	546635	546725	D =	129.5
72mm Outer frame	546185/835	546655/435	A =	134.5
105.5mm T & Z Sash	546635/625	546725/715	B =	57.0
105.5mm Mullion (D)	546635	546725	C =	52.0
82mm Midrail T & Z (C)	546475/465	546745/755	D =	153.0
72mm Outer frame	546185/835	546655/435	A =	134.5
105.5mm T & Z Sash	546635/625	546725/715	B =	57.0
82mm Mullion T & Z (D)	546475/465	546745/755	C =	52.0
82mm Midrail (C)	546475	546745	D =	129.5

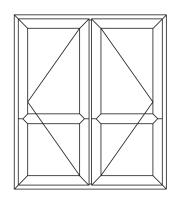
French Doors

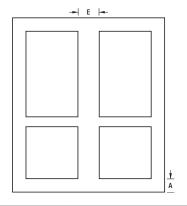
Listed below are the glazing distances between unit edges

A = Frame edge to sash glass edge

 $\mathsf{E} = \mathsf{Fixed}$ glass edge to fixed glass edge

Note: Sizes are based on a 5mm Bridge Packer and 4mm Glazing Packer.





Profile Combination	TOTAL70c Art. No	TOTAL70s Art. No.	Position	Dimension (mm)
72mm Outer frame	546185/435	546655/435	A =	134.5
105.5mm T & Z Sash	546635/625	546725/715	E =	194.0
Dummy Mullion	546085	546665		



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