

Rio

Flush Fit

Technical Information

Building Solutions
Automotive
Industry

Technical Information - Contents

1. General guidelines	
Product Description	. 2
Window Styles	2
Storage of PVC-U profiles	2
Cutting to size	. 2
Milling and drilling	. 2
Welding	
Mechanical Jointing	. 3
Seals	
Fittings - Hardware	
Application of supplementary profiles	
Repairs	
Cleaning	
Installation.	
modalidation in the control of the c	
2. Profile print	
Outerframes	
Sash	
Transoms	
Ancillaries	
Andinands	J
3. Product drawings	
Sill detail	
Head detail	
T Transom detail	
French Window detail	
French Window Spacer fixing detail	
Sash Mechanical Joint	
Frame Mechanical Joint	
Milling details - Sash	
Milling details - Frame	
Milling details - Transom.	
Milling details - Georgian Bar	
Hardware details	23
4. Maximum sash size recommendations	24
5. Manufacturing deductions	
Single sash	
French Window	
Multi Sash	28
6. Reinforcement instructions	29
7. Drainage details	30
8. U-value data	31
9. Product ordering table	32
10. Foil Matrix	34

Technical Information - General Guidelines

Product Description

The Rio Flush Fit window gives a traditional appearance to any building and is designed to create maximum lighting effect into the room, whilst offering easy maintenance. The window utilises the TOTAL70 hardware rebate so the same hinge and gearing options are available.

The Rio Flush Fit window is based on an authentic, traditional design, timber window but with all the benefits of modern PVC performance. The styles consist of a casement window side hung, top hung and french window where the sash fits flush into the frame.

The Rio Flush Fit is manufactured with the outer frame profile components from the TOTAL70 system therefore you are able to either manufacture the window with a Chamfered (T70c) or Sculptured (T70s) finish depending on the style of property that the window is being fitted into.

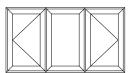
In order to further enhance the traditional timber aesthetics the Heritage vertical sliding bead and Georgian bar system are utilised.

Window Styles



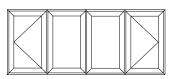












* For authenticity dummy sashes are displayed

Storage of PVC-U profiles

For information on storage of profiles please refer to TOTAL70 Manufacturing Recommendations 706.620EN

Cutting to size

Cutting speed is 50 – 52 m per second and suitably toughened metal fine toothed saw blades should be used. High speed steel blades must be relief ground with no set. It is extremely important that all cutting tools are kept sharp, blunt tools produce excessive friction causing a film of molten material to stick to the saw blade and between its teeth. This adversely affects the cleanness of cuts and, therefore, the weld. Cut sections should be processed without delay, at most within 2 to 3 days, because of the risk of dirt pick-up in the cut faces and moisture absorption from the air.

Dirt contamination can cause faults in the weld, reducing corner strength.

Cutting of profiles is in accordance with fabrication sizes.

Milling and drilling

High-speed light metal and woodworking machines are suitable for milling work as well as conventional HSS drilling and milling machines. When drilling (triple boring) simultaneously through PVC and steel in one pass, the drill bits and drilling machine must be compatible and suitable for steel to avoid deflection of the drill or other damage.

Outer Frame Drainage

Drainage of the outer frame profile is affected by milling slots into the front chamber and routing the water out via either:

- slots or holes milled in the external face and concealed with a plastic cover where face drainage is required, or
- slots milled in the underside of the profile, where concealed drainage is required.

Sash Drainage and Pressure Equalisation

The glazing rebate must be drained at the bottom via slots into the front chambers 5 x 25 mm long. At least two slots, 70 mm from the corners and a maximum of 600 mm apart should be milled in accordance with the Glazing instructions. The rebate must also be pressure equalised via similar slots placed on the outside of the profile at the top of the jambs.

Welding

For welding methods and further information please refer to TOTAL70 Manufacturing Recommndations 706.620EN.

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Technical Information - General Guidelines

Mechanical Jointing

In addition to welding of profile the system has the option to be mechanically jointed for both the sash and frame; details of which are covered on page 16-17.

On the bottom, for both the sash and frame, the drainage chamber profile ends require sealing off with silicone. Transom drainage chambers also require sealing off. For Transom mechanical joints utilise the TOTAL70 standard mechanical joint blocks, Art No. 261209/261199.

Seals

The weldable corner gasket, Art. No. 328217, are inserted into the sash corners followed by closing seal, Art. No. 329649, between the corner seals. Make sure that there are no gaps and gasket is not stretched. To aid fitting of Art. No. 328217 use hand roller or lubricate. For welded sashes the weld sprue should be removed in the corners before inserting seal. The bead infill gasket, Art. No. 328218, needs to be inserted before the hinges are fitted.



Use of non-REHAU seals and gaskets will invalidate test certificates, performance data or third party certification applicable to REHAU window systems.

Fittings - Hardware

A eurogroove is provided in the sash profile to accommodate espagnolettes and shoot bolts with a 16mm face plate. Availability of specialist keeps should be checked with the fittings suppliers. Fitting and operating instructions plus drilling templates should be obtained from the fittings manufacturers. Permissible sash weight and sash dimensions also depend on the type of fittings used and manufacturer's recommendations should be followed.

Screw fixings should always penetrate two walls of PVC, the reinforcement profile or the specially designed screw ports provided. If holes are pre-drilled, the condition of equipment should be carefully checked, since blunt drill bits can reduce anchor strength substantially. Where self tapping screws are used, it is essential that a precisely shaped cutting bit is employed.

When using electric or pneumatic screw drivers, the clutch mechanism must be adjusted to avoid stripping the threads and the speed should be set to 600-1000 rpm. Higher speeds may cause partial heating of the PVC material, reducing anchorage strength of the screws. With the fittings in position the sash is able to operate externally to the geometry set by the hinge.

Application of supplementary profiles

Profile combinations are possible with supplementary profiles from the TOTAL70 Ancillary range. Manufacturing instructions for the individual profiles should be followed.

Fitting of glazing beads

The glazing beads are snapped into the channels provided in the main sections. Generally all glazing beads should be mitre cut though this presents problems with short lengths due to the inherent rigidity of the beads. When mechanically jointing, ensure that the vertical beads are scribed on to the horizontal beads to prevent ingress of water.

Repairs

Damage by mechanical means causing holes or cracks can be repaired with welding rods of RAU-PVC 1105 and a hot air welder. Under certain conditions, some damage can be repaired with repair paste.

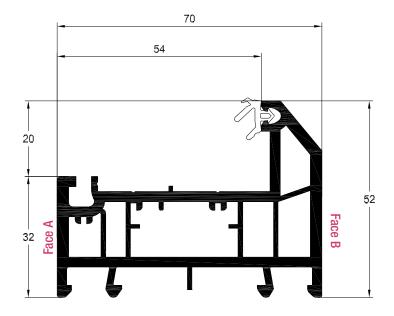
Cleaning

The window can be cleaned using normal washing up liquid and lukewarm water. Gritty and abrasive cleaning agents must not be used. In the event of exceptionally bad soiling, the use of a special cleaning agent is recommended which must be applied to the whole of the frame surface.

Installation

When fitting the sash to the frame, the visible gap on the outside (5mm nominal) should be no more than 4-6mm.

Technical Information - Profile Print - Outer frames

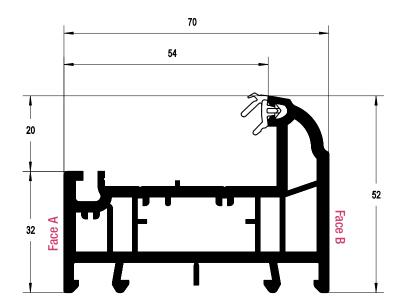


Slim Outer Frame 52mm White Profile Art. No. 546816 Laminated Profile Art. No. 586815/586816

216391		318555
[] 1.5mm		1mm
lx	0.61	0.46
ly	0.17	0.13

216391 - 25 x 11 318555 - 25 x 11





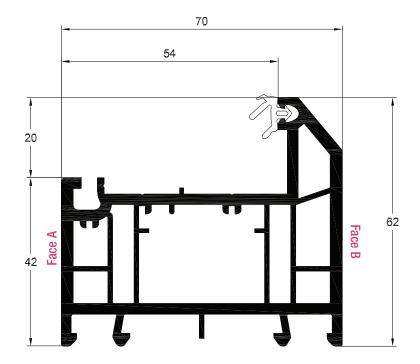
Slim Outer Frame 52mm White Profile Art. No. 546415 Laminated Profile Art. No. 586415

	216391	318555
→ []	1.5mm	1mm
lx	0.61	0.46
ly	0.17	0.13

216391 - 25 x 11 318555 - 25 x 11



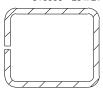
Technical Information - Profile Print - Outer frames

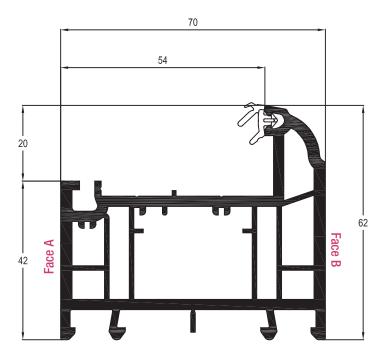


Intermediate Outer Frame 62mm White Profile Art. No. 546826 Laminated Profile Art. No. 586825/586826

216392		318565
1.5mm		1mm
lx	1.02	0.75
ly	0.79	0.58

216392 - 25 x 21 318565 - 25 x 21

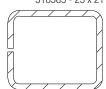




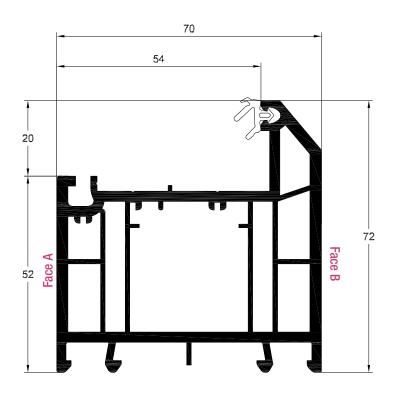
Intermediate Outer Frame 62mm White Profile Art. No. 546425 Laminated Profile Art. No. 586425

	216392	318565
	1.5mm	1mm
lx	1.02	0.75
ly	0.79	0.58

216392 - 25 x 21 318565 - 25 x 21



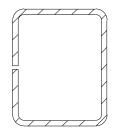
Technical Information - Profile Print - Outer frames

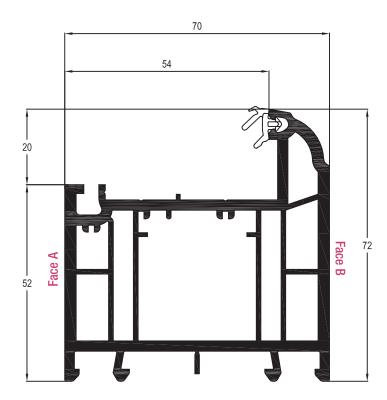


Universal Outer Frame 72mm White Profile Art. No. 546836 Laminated Profile Art. No. 586835/586836

	216393	318575
→ 1.5mm		1mm
lx	2.01	1.45
ly	1.44	1.03

216393 - 25 x 31 318575 - 25 x 31

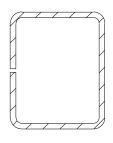




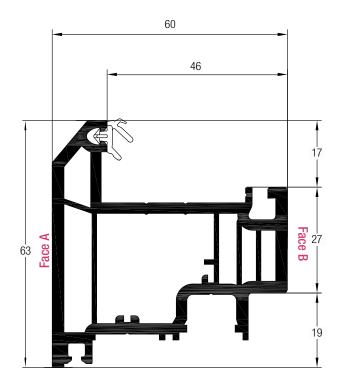
Universal Outer Frame 72mm White Profile Art. No. 546435 Laminated Profile Art. No. 586435

	216393	318575
→ {}	1.5mm	1mm
lx	2.01	1.45
ly	1.44	1.03

216393 - 25 x 31 318575 - 25 x 31



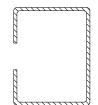
Technical Information - Profile Print - Sash



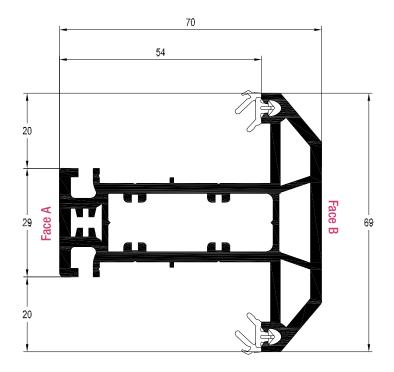
63mm Flush Sash White Profile Art. No. 546015 Laminated Profile Art. No. 586015

	328180
	0.8mm
lx	0.58
ly	0.34

328180 - 25 x 19 x 9

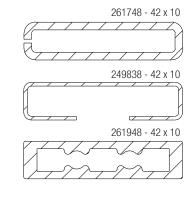


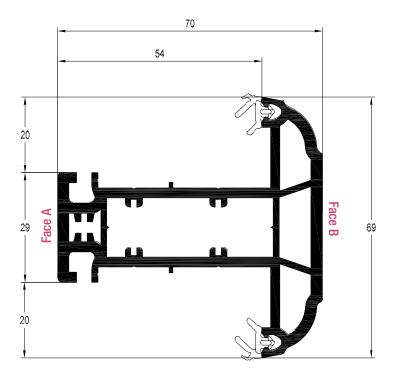
Technical Information - Profile Print - Transoms



Slim Transom / Mullion T 69mm White Profile Art. No. 546085 Laminated Profile Art. No. 576265

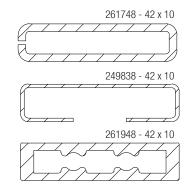
	261748	249838	261948
→ [/]	2mm	1mm	Aluminium
lx	3.06	1.77	4.18
ly	0.27	0.14	0.3





Slim Transom / Mullion T 69mm White Profile Art. No. 546665 Laminated Profile Art. No. 576665

	261748	249838	261948
→ {}	2mm	1mm	Aluminium
lx	3.06	1.77	4.18
ly	0.27	0.14	0.3



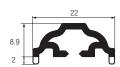
Technical Information - Profile Print - Ancillaries

Glazing & Georgian Bars

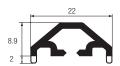
FOR 28MM SEALED UNITS



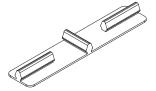
Sculptured Bead - Low Level Co-Ex White Profile Art. No. 559600 Laminated Profile Art. No. 589600



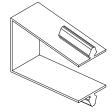
Sculptured Georgian Bar White Profile Art No. 559261 Laminated Profile Art. No. 589261



Chamfered Georgian Bar White Profile Art No. 559251 Laminated Profile Art. No. 589251

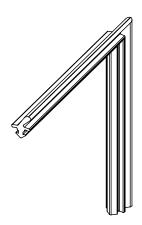


Georgian Bar Cruciform Clip Art. No. 200283



Georgian Bar Clip 28mm Art. No. 200344

Gaskets



Weldable Corner Gasket Art No. 328217

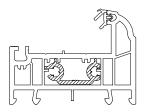


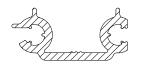
Closing Seal for Art. 546015 Art No. 329649



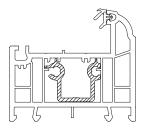
Bead Infill Gasket Art No. 328218

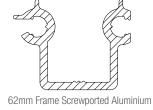
Mechanical Joint Components



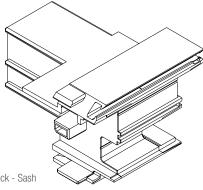


52mm Frame Screwported Aluminium Art No. 328219



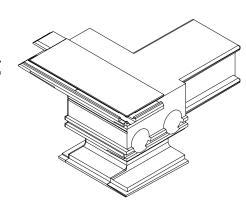


Art No. 329891

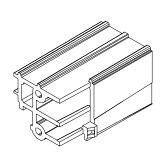


Mechanical Joint Block - Sash L & R Handed

Art No. 328222 Side View





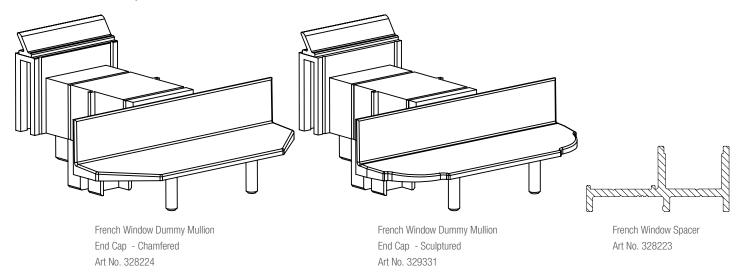


Plug

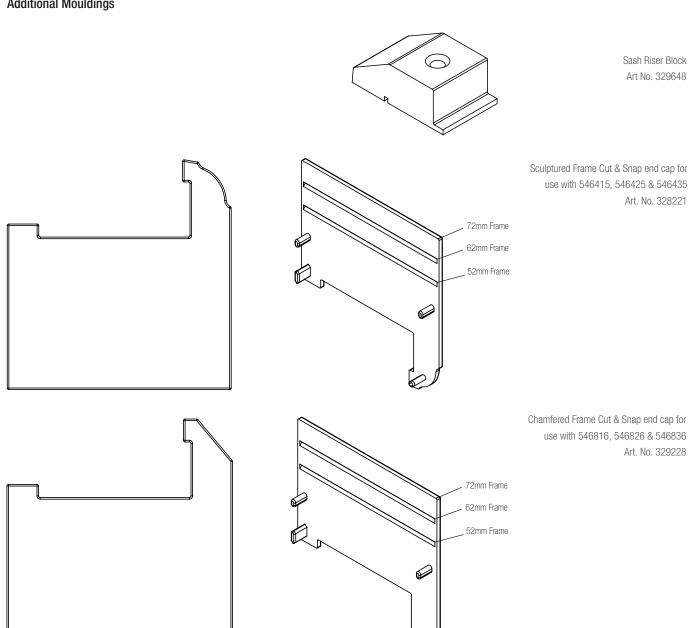
* Please note right hand block and left hand plug shown

Technical Information - Profile Print - Ancillaries

French Window Components

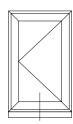


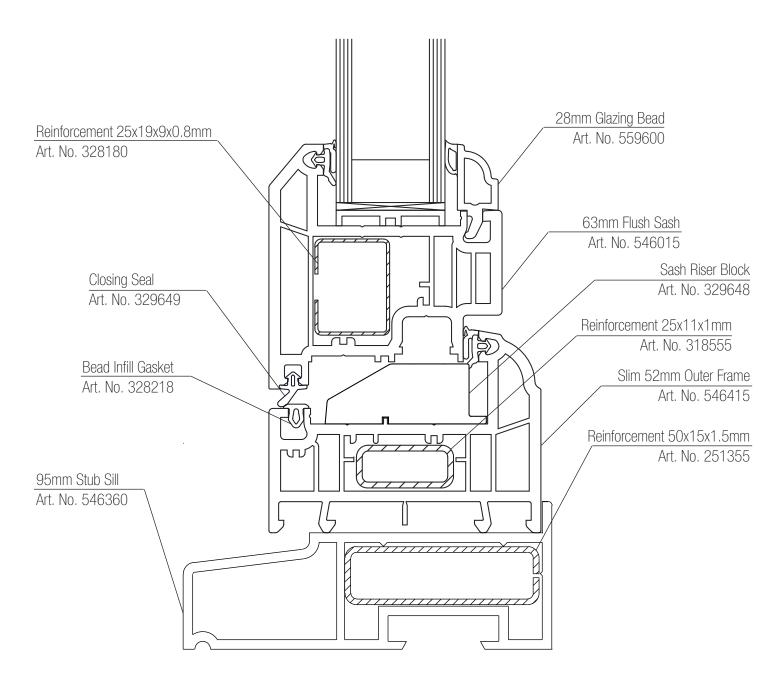
Additional Mouldings



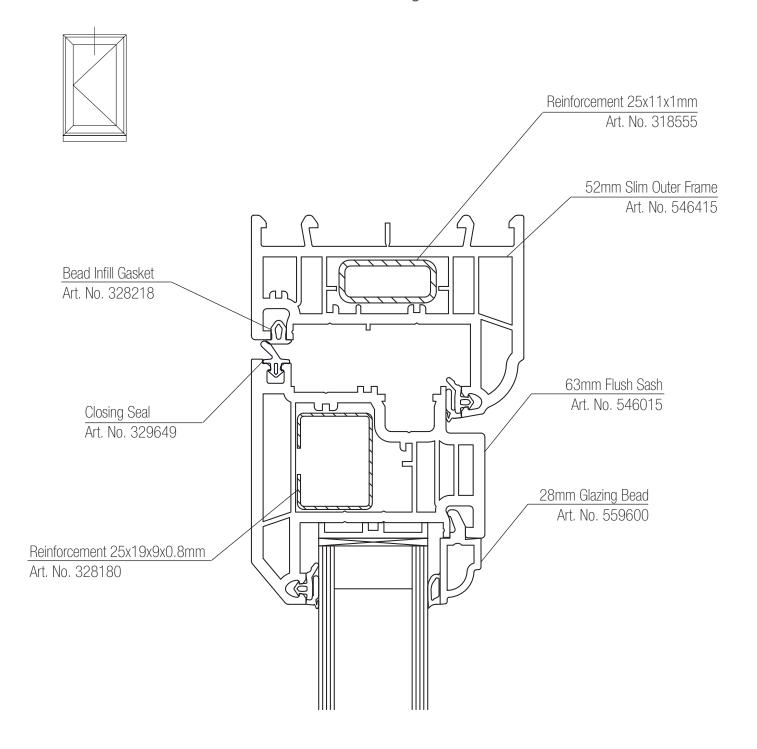
10 © REHAU 706.619EN 03.2019

Technical Information - Production Drawings - Sill Detail



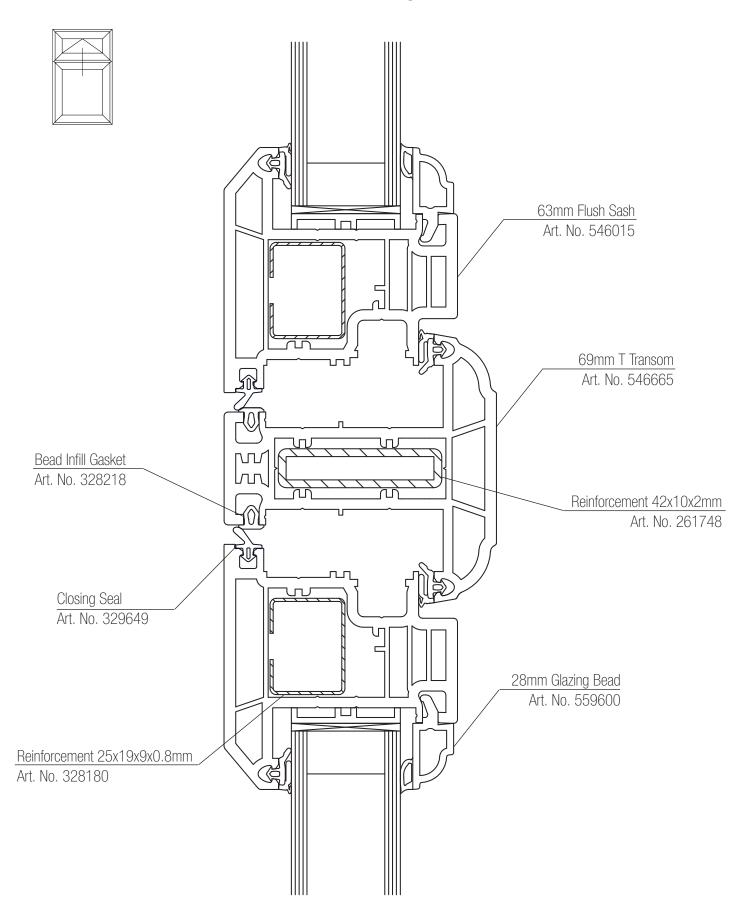


Technical Information - Production Drawings - Head Detail

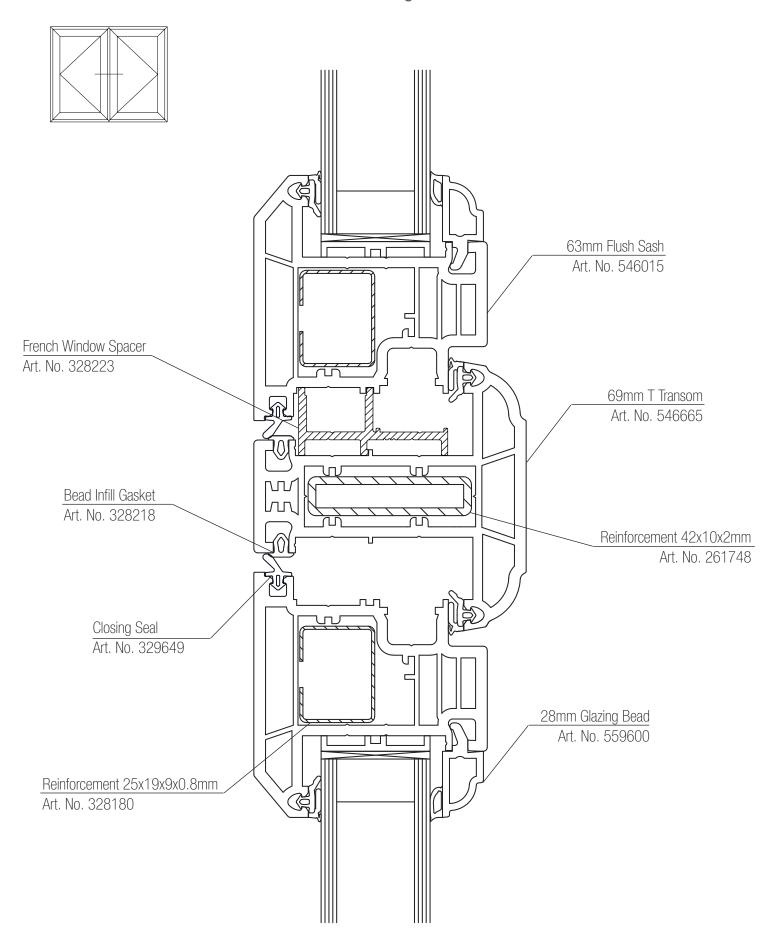


12 © REHAU 706.619EN 03.2019

Technical Information - Production Drawings - T Transom Detail

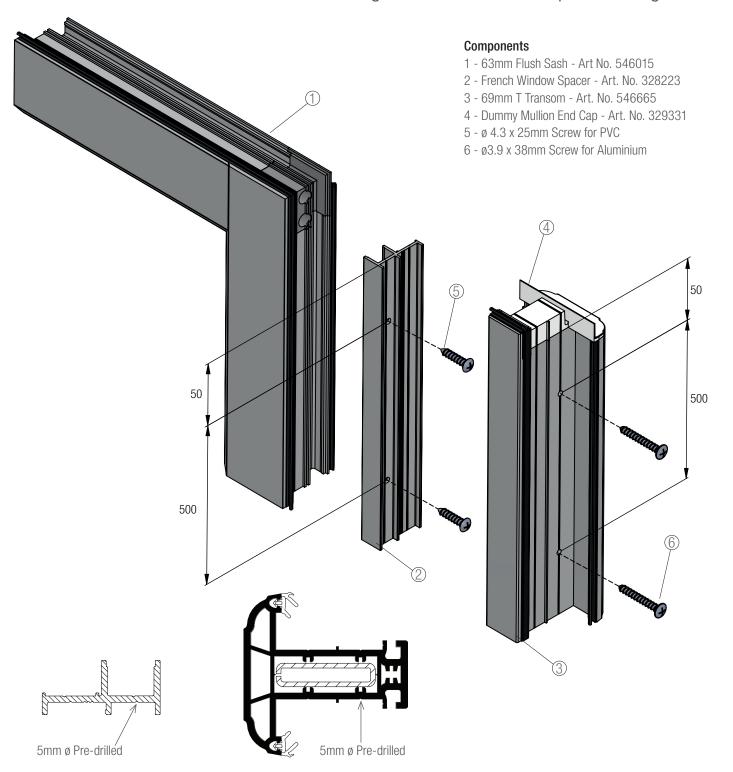


Technical Information - Production Drawings - French Window Detail



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Technical Information - Production Drawings - French Window Spacer Fixing Detail



Step 1

Cut French Window Spacer, Art. No. 328223, to length: Sash height - 40mm

Step 2

Pre-drill French Window Spacer as shown above, 5mm diameter clearance holes, 50mm from each end and 500mm centres

Step 3

Position and screw fix French Window Spacer to sash using 4.3 x 25mm screw for PVC fixing.

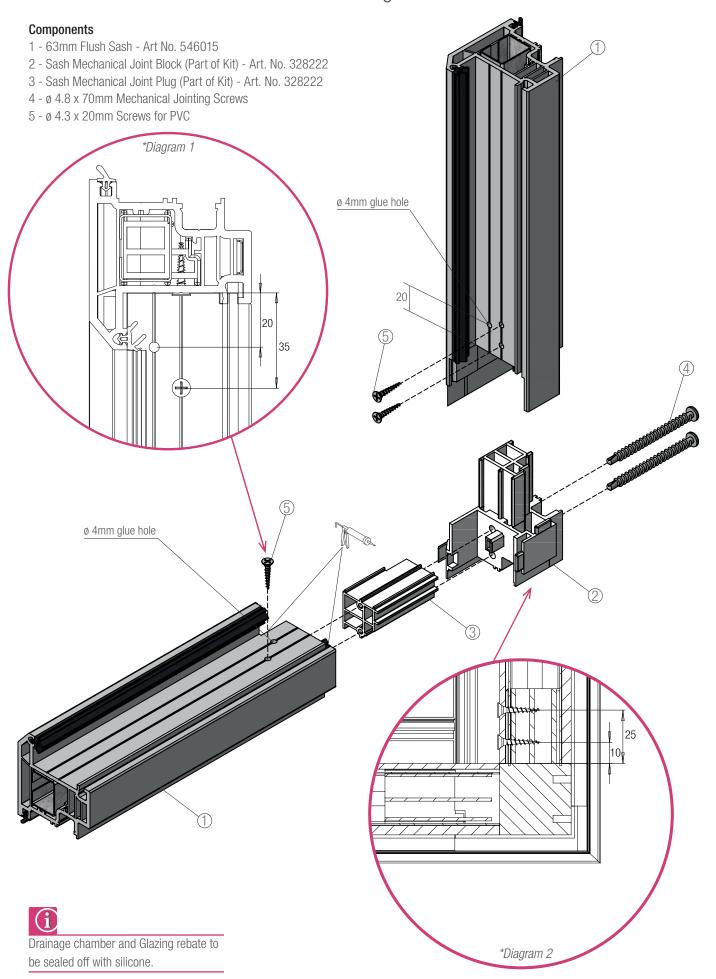
Step 4

Pre-drill Transom, Art. No. 546085/546665, as shown above, 5mm diameter clearance holes, 50mm from each end and 500mm centres

Step 5

Position Transom to French Window Spacer & Sash assembly. Fix using 3.9 x 38mm screw for aluminium fixing.

Technical Information - Production Drawings - Sash Mechanical Joint



Technical Information

It is recommended that for additional strength, mechanical joints should be glued in to position.

All instructions are based on 3 pumps of glue at each glue hole using the following components:

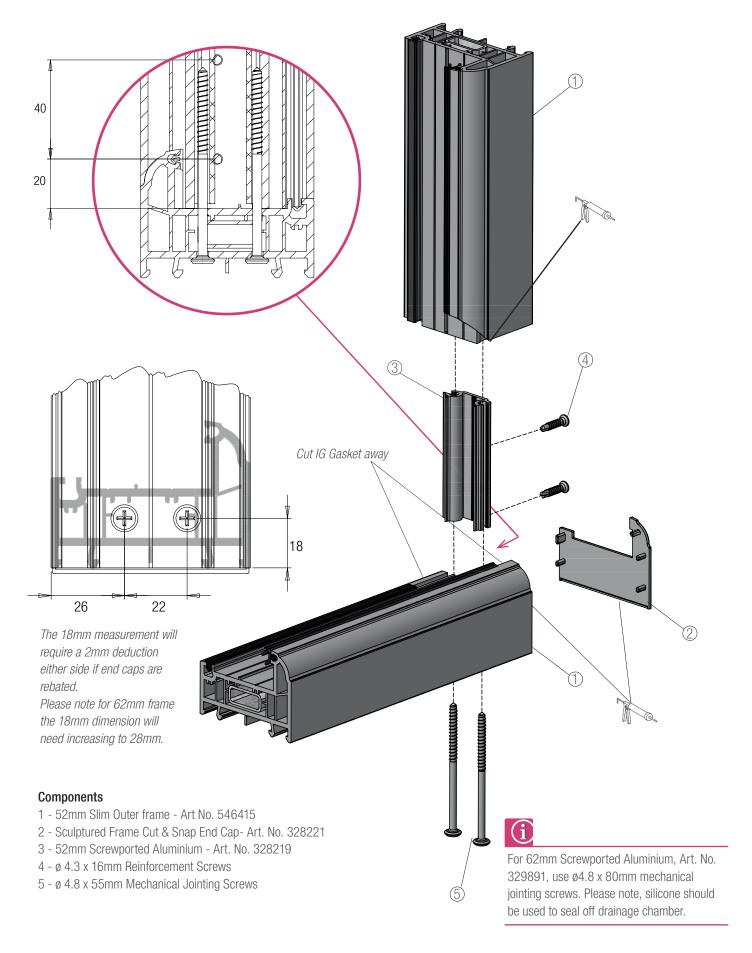
- Advanced Adhesives 3290 Structural Acrylic Bonder (50ml)
- Advanced Adhesives Glue Gun
- RS Pro Epoxy Mixer Nozzle 4.03in (Ref 512-825)

Please read manufacturers instructions prior to using the glue.

Mechanical Joint Glue Holes

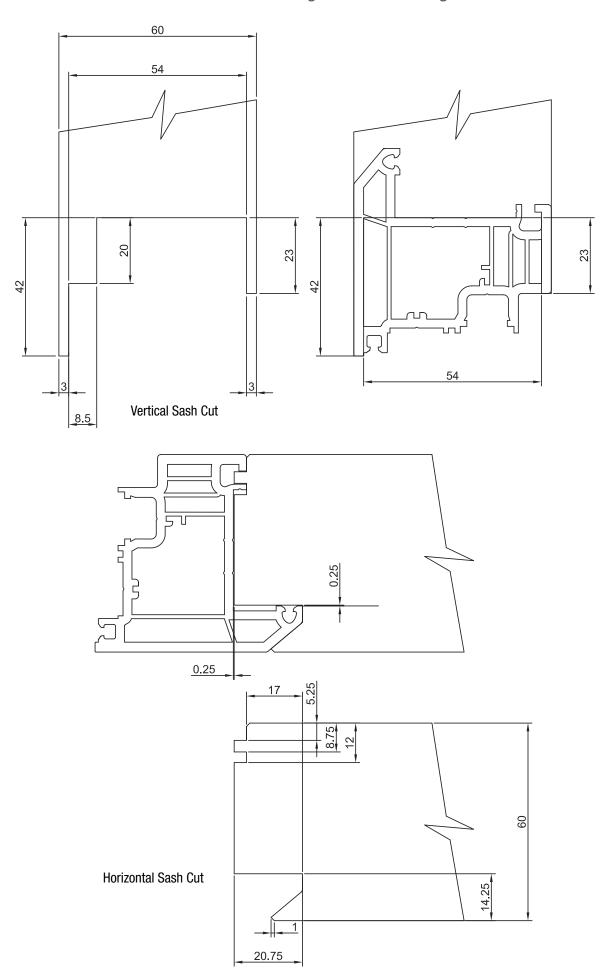
- 1. On both the Jamb and rail drill a Ø 4mm hole, 20mm from either end of profile closest to the upstand. Repeat until there are 8 holes drilled. Please see diagram 1 on page 16.
- 2. Once holes have been drilled clear profile lengths of any swarf to ensure successful glueing.
- 3. Insert the jamb mechanical joint block and fasten in to position using 2 screws at 10mm & 25mm from profile end on the bead side guideline as per diagram 2 on page 16.
- 4. Insert the rail plug and fix in to position using 1 screw at 35mm from profile end on the bead side guideline. Please see diagram 1 on page 16.
- 5. Seal bottom rail drainage chambers at either end.
- 6. Once fully assembled ensure the mechanical fixing screws are in place then clamp in to position.
- 7. Using the glue gun, place the nozzle in to the glue holes and use 3 pumps of the glue gun. Repeat at each hole.
- 8. Once complete visually check that all glue holes are sufficiently filled.
- 9. Also seal bottom rail join to jambs (glazing rebate) and also in the corner join in the bead groove.
- 10. After 5 minutes the glue will have set but check glue manufacturer recommendations.
- 11. Once glue has set then unclamp and ensure that there is no movement in the joint.

Technical Information - Production Drawings - Frame Mechanical Joint



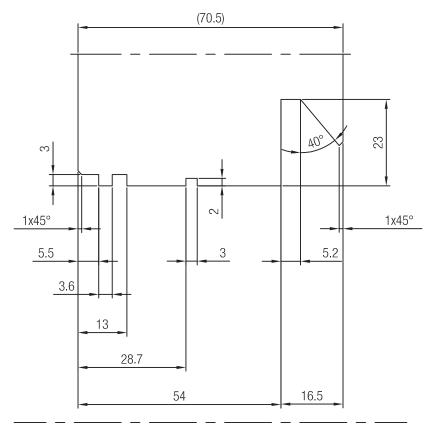
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Technical Information - Production Drawings - Sash Milling Details

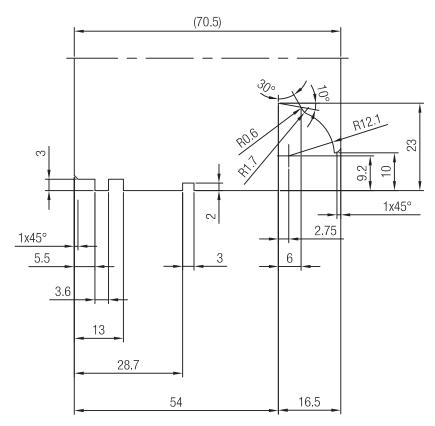


Technical Information - Production Drawings - Frame Milling Details

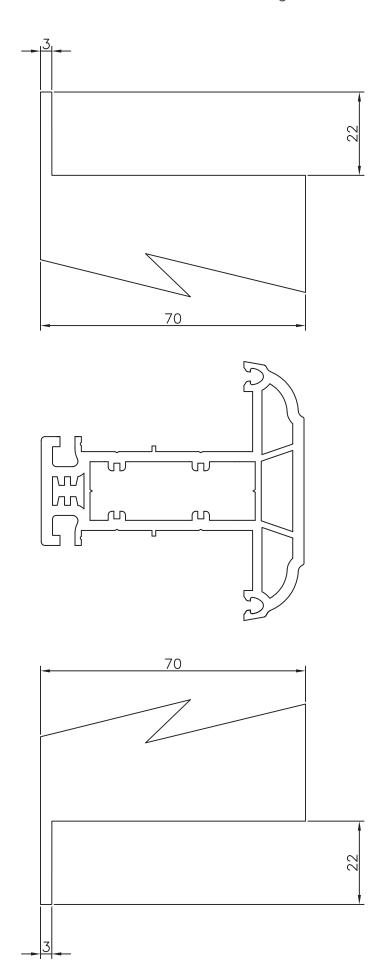
TOTAL70c frame milling detail



TOTAL70s frame milling detail



Technical Information - Production Drawings - Transom Milling Details

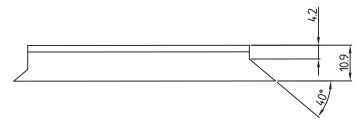




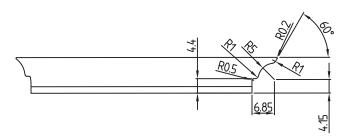
The milling detail is shown with TOTAL70s, the same principle applies for TOTAL70c

21

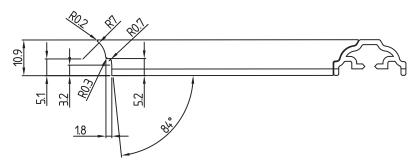
Technical Information - Production Drawings - Georgian Bar Milling Details



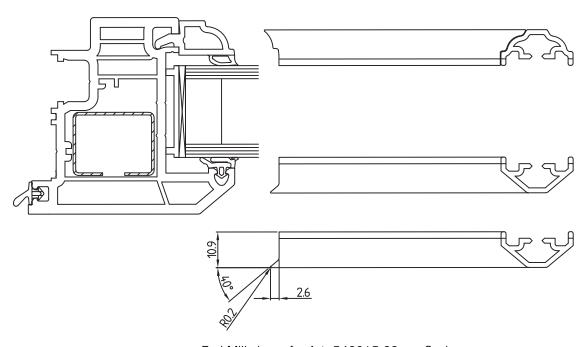
End Mill shape for Art. 559251 28mm Chamfered Georgian Bar



End Mill shape for Art. 559261 28mm Sculptured Georgian Bar

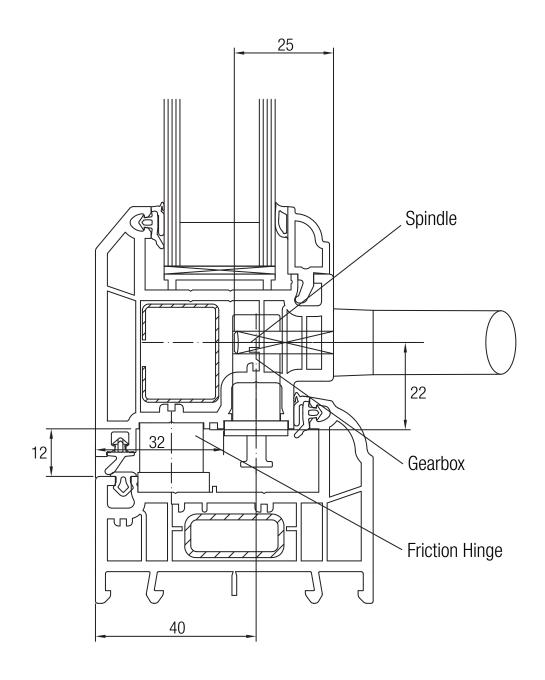


End Mill shape for Art. 559600 28mm Bead



End Mill shape for Art. 546015 63mm Sash

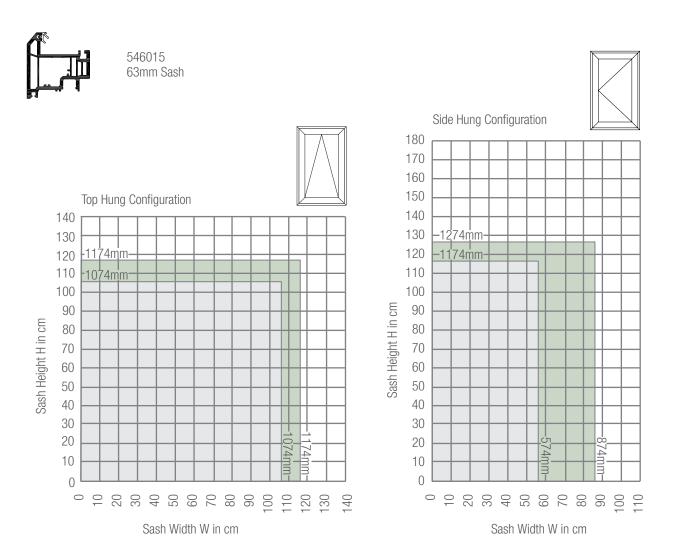
Technical Information - Production Drawings - Hardware Details



Casement hardware guide

Hinge stack height	17mm
Gearbox backset	22mm
Spindle length	25mm

Technical Information - Production Drawings - Maximum Size Recommendations



NOTE: REINFORCEMENT TO FRAME MEMBER IS REQUIRED FOR HARDWARE WHEN SASH IS REINFORCED.

^{* 1174}mm is the equivalent to 1200mm size of TOTAL70 standard Casement T Sash

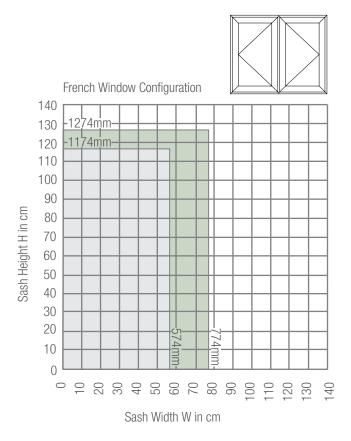
Article No.	Reinforcement	Reinforcement Description		Fully Welded maximum glass weight	Mechanical Joint maximum glass weight
328180		25 x 19 x 9 x 0.8mm	lx 0.58 cm4 ly 0.34 cm4	35kg	30kg For top hung dead load deflection see page 28.
Unreinforced	-	-	-	25kg	20kg



All sizes and weights subject to hardware suppliers recommendations. Maximum sizes are based on a fully welded configuration. Please contact your local sales office regarding mechanically jointed max sizes.

Technical Information - Production Drawings - Maximum Size Recommendations





NOTE: REINFORCEMENT TO FRAME MEMBER IS REQUIRED FOR HARDWARE WHEN SASH IS REINFORCED.

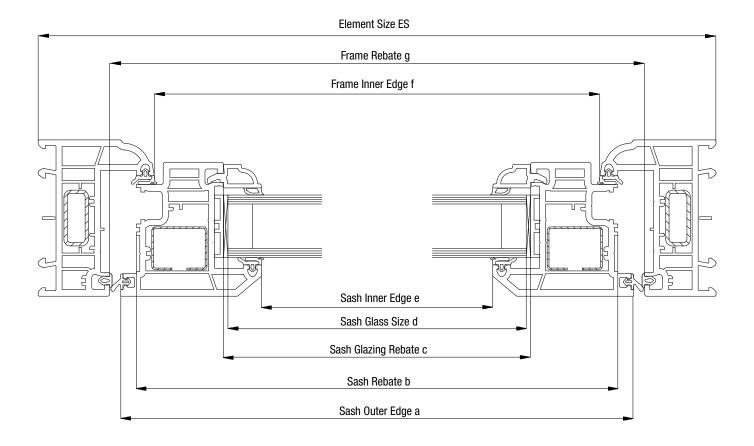
^{* 1174}mm is the equivalent to 1200mm size of TOTAL70 standard Casement T Sash

Article No.	Reinforcement	Description	I-Value	Fully Welded maximum glass weight	Mechanical Joint maximum glass weight
328180		25 x 19 x 9 x 0.8mm	lx 0.58 cm4 ly 0.34 cm4	35kg	30kg
Unreinforced	-	-	-	25kg	20kg



All sizes and weights subject to hardware suppliers recommendations. Maximum sizes are based on a fully welded configuration. Please contact your local sales office regarding mechanically jointed max sizes.

Technical Information - Manufacturing Deductions - Single Sash

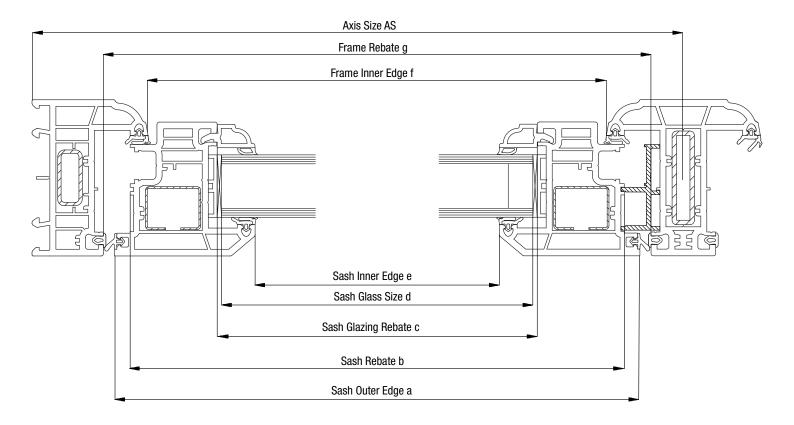


Deduction	Outer Frame Size									
Deduction	52mm Slim Frame	62mm Intermediate Frame	72mm Universal Frame							
Sash Outer Edge	a = ES - 74	a = ES - 94	a = ES - 114							
Sash Rebate	b = ES - 88	b = ES - 108	b = ES - 128							
Sash Glazing Rebate	c = ES - 166	c = ES - 186	c = ES - 206							
Sash Glass Size	d = ES - 170	d = ES - 190	d = ES - 210							
Sash Inner Edge	e = ES - 200	e = ES - 220	e = ES - 240							
Frame Inner Edge	f = ES - 104	f = ES - 124	f = ES - 144							
Frame Rebate	g = ES - 64	g = ES - 84	g = ES - 104							



If you are fitting the frame end caps please allow a 2mm deduction for each end cap.

Technical Information - Manufacturing Deductions - French Window

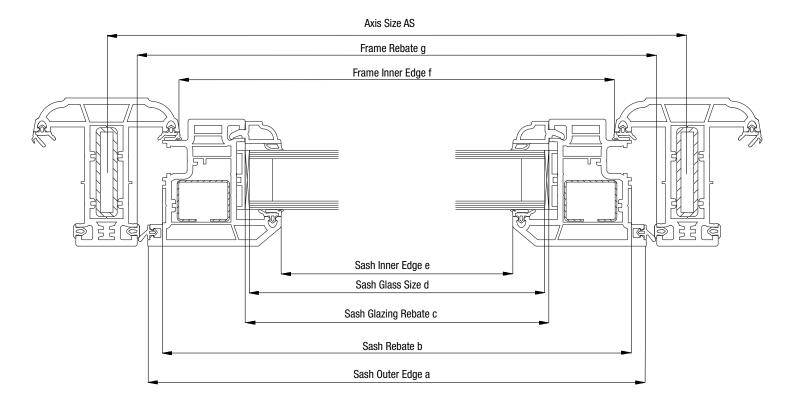


Deduction		Outer Frame Size								
Deduction	52mm Slim Frame	62mm Intermediate Frame	72mm Universal Frame							
Sash Outer Edge	a = AS - 56.5	a = AS - 66.5	a = AS - 76.5							
Sash Rebate	b = AS - 70.5	b = AS - 80.5	b = AS - 90.5							
Sash Glazing Rebate	c = AS - 148.5	c = AS - 158.5	c = AS - 168.5							
Sash Glass Size	d = AS - 152.5	d = AS - 162.5	d = AS - 172.5							
Sash Inner Edge	e = AS - 182.5	e = AS - 192.5	e = AS - 202.5							
Frame Inner Edge	f = AS - 86.5	f = AS - 96.5	f = AS - 106.5							
Frame Rebate	g = AS - 46.5	g = AS - 56.5	g = AS - 66.5							
Dummy Length Deduction	-74	-94	-114							



If you are fitting the frame end caps please allow a 2mm deduction for each end cap.

Technical Information - Manufacturing Deductions - Multi Sash



Deduction	69mm T Transom
Sash Outer Edge	a = AS - 39
Sash Rebate	b = AS - 53
Sash Glazing Rebate	c = AS - 131
Sash Glass Size	d = AS - 135
Sash Inner Edge	e = AS - 165
Frame Inner Edge	f = AS - 69
Frame Rebate	g = AS - 29



Please note you are able to use the 82mm T Transom where required, please contact your local sales office for deductions.

Technical Information - Reinforcement Instructions

Outer frame

- Upper horizontal members to be reinforced if they cannot be adequately anchored to masonry.

Sash (Art.No. 546015)

- Sash members to be reinforced when over 1074 x 1074mm. Please refer to maximum sash sizes on page 22.

Sash Deflection

- Calculated glass weight on dead load deflection at the bottom middle of sash (Sash riser block will reduce this in the closed position)
- As a guide maintaining the gap between sash and frame at the bottom of top hung windows the table below shows deflect due to glass weight on the bottom of the sash.
- Please note calculations are based on glazing packer being no more than 100mm from glazing rebate corners.

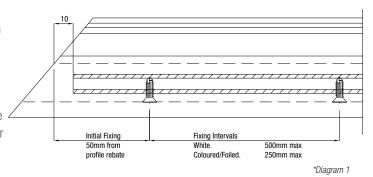
				l	Unreinforced W	idth				
		374mm	474mm	574mm	674mm	774mm	874mm	974mm	1074mm	1174mm
	5kg	0.1	0.2	0.3	0.4	0.6	0.8	1.2	1.6	-
Glass Weight	10kg	0.2	0.3	0.5	0.7	1.0	1.3	1.7	2.3	-
	15kg	0.3	0.4	0.7	1.0	1.3	1.8	2.3	3.0	-
	20kg	0.3	0.6	0.9	1.2	1.7	2.3	2.9	3.7	-
	25kg	0.4	0.7	1.1	1.5	2.1	2.7	3.5	4.4	-
		Please note it	is recommende	d that dead load	deflections ove	er 2.1mm requi	re reinforcemen	t in the bottom r	ail.	
			Reinf	forced sash widtl	h on bottom ra	l with Article No	o. 328180			
		374mm	474mm	574mm	674mm	774mm	874mm	974mm	1074mm	1174mm
	5kg	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.6
	10kg	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8
	15kg	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.1
Glass Weight	20kg	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.1	1.3
Troignit	25kg	0.1	0.2	0.3	0.4	0.6	0.8	1.0	1.3	1.6
	30kg	0.1	0.2	0.4	0.5	0.7	0.9	1.2	1.5	1.8
	35kg	0.2	0.3	0.4	0.6	0.8	1.1	1.3	1.7	2.1

Transom

- Transom members to be reinforced as required. Structural calculations and I values should be proven to decide the correct steels for the application.

General notes

- Reinforcement screw to be located approximately 50mm from each profile end and spaced at approximately 500mm intervals for white profile and 250mm intervals for coloured/foiled, see diagram 1.
- Coloured/foiled profiles must always be reinforced irrespective of size.
- When applying a transom/mullion into a sash it is essential that one piece steel reinforcement section is applied and secured directly after welding. It is unacceptable to insert two lengths either side of the weld joint.



Mechanical Joint Reinforcement

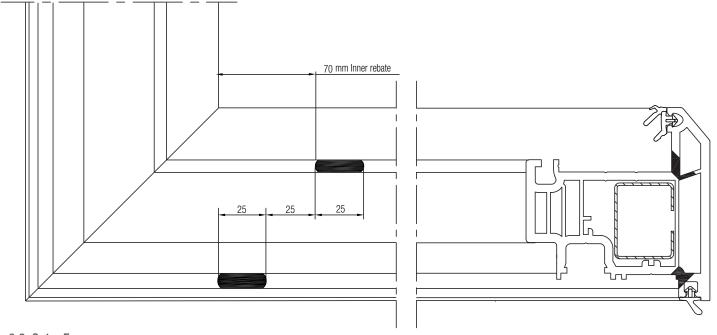
For the frame mechanical joint, the reinforcement needs to be reduced to allow for the screwported aluminium, Art. No. 328219 (52mm) or Art. No. 329891 (62mm), to be inserted. The screwported aluminium, Art. No. 328219 and Art. No. 329891, is supplied in 75mm pieces. The mechanical joint sash plug moulding will require an allowance of 54mm from each end.



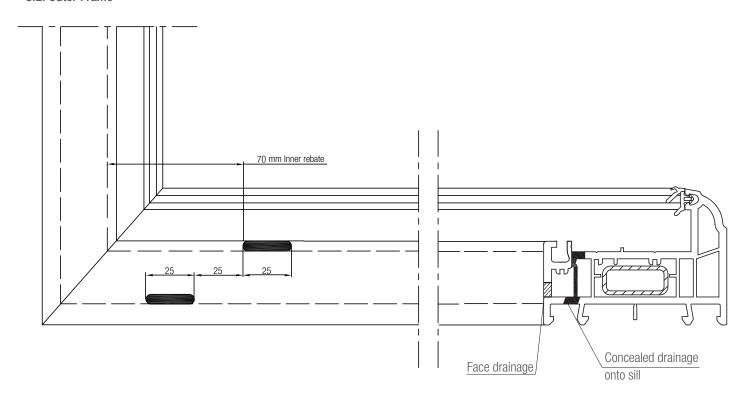
For more detailed information please refer to 700.620 EN/10.09

Technical Information - Drainage Details

8.1. Sash



8.2. Outer Frame



30

Technical Information - U Value Data

U-Values

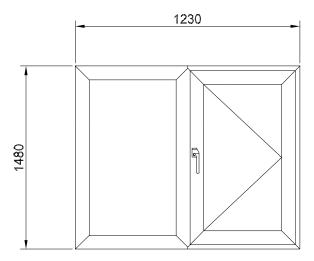
Enhancing the profile selection improves the overall thermal performance of the window not only for WERs, but more importantly the U value - its' ability to retain heat within the building. The aim of which is to achieve a cost saving on energy bills as the amount of heating required will be reduced.

	TOTAL70C	TOTAL70S
Frame	W/m ² K	W/m²K
5 Chamber Fully Reinforced	1.43	1.48
5 Chamber Unreinforced	1.35	1.40

The above values are based on REHAU approved simulations.

Buildcheck reports based on sample submitted to BSI for testing according to BS 6375 & PAS24, indicate that a u-value of 1.3 W/m²K is achievable using TOTAL70s Unreinforced. Based on this, A to A+ WER can be met based on glass specification.

Frame U values are based on the UK standard window 1230 wide x 1480 high, an opening light next to fixed.



Technical Information - Product Ordering Guide

Article Number	Variant Number	Description	Finish	Quantity (metres)	Packaging
200283	001	Georgian Bar Cruciform Clip	White	250	Pieces
200283	002	Georgian Bar Cruciform Clip	Brown	250	Pieces
200283	003	Georgian Bar Cruciform Clip	Acorn	250	Pieces
200344	001	Georgian Bar Clip 28mm	White	250	Pieces
200344	002	Georgian Bar Clip 28mm	Brown	250	Pieces
200344	003	Georgian Bar Clip 28mm	Acorn	250	Pieces
216391	001	Reinforcement 25 x 11 x 1.5mm	Steel	6	Length
216392	001	Reinforcement 25 x 21 x 1.5mm	Steel	6	Length
216393	001	Reinforcement 25 x 31 x 1.5mm	Steel	6	Length
249838	001	Reinforcement 42 x 10 x 1mm	Steel	6	Length
261748	001	Reinforcement 42 x 10 x 2mm	Steel	6	Length
261948	001	Reinforcement 42 x 10	Aluminium	6	Length
318555	001	Reinforcement 25 x 11 x 1mm	Steel	6	Length
318565	001	Reinforcement 25 x 21 x 1mm	Steel	6	Length
318575	001	Reinforcement 25 x 31 x 1mm-	Steel	6	Length
328180	001	Reinforcement 25 x 19 x 9 x 0.8mm	Steel	6	Length
328217	001	Weldable Corner Gasket	Black	200	Pieces
328218	001	Bead Infill Gasket	Black	400	Spool
328219	001	52mm Frame Screwported Aluminium (75mm)	Aluminium	20	Pieces
328221	001	Sculptured frame close off end cap	White	50	Pairs
328222	001	Mechanical Joint Block - Sash	White	10	Kits
328223	001	French Window Spacer	Aluminium	6	Length
328224	001	French Window dummy mullion end cap - Chamfered	White	20	Pieces
328224	002	French Window dummy mullion end cap - Chamfered	Brown	20	Pieces
328224	003	French Window dummy mullion end cap - Chamfered	Acorn	20	Pieces
328224	004	French Window dummy mullion end cap - Chamfered	Grey	20	Pieces
329228	001	Chamfered frame close off end cap	White	50	Pairs
329331	001	French Window dummy mullion end cap - Sculptured	White	20	Pieces
329331	002	French Window dummy mullion end cap - Sculptured	Brown	20	Pieces
329331	003	French Window dummy mullion end cap - Sculptured	Acorn	20	Pieces
329331	004	French Window dummy mullion end cap - Sculptured	Grey	20	Pieces
329648	001	Sash Riser Block	White	250	Pieces
329648	002	Sash Riser Block	Brown	250	Pieces
329648	003	Sash Riser Block	Acorn	250	Pieces

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Technical Information - Product Ordering Guide

Article Number	Variant Number	Description	Finish	Quantity (metres)	Packaging
329648	004	Sash Riser Block	Grey	250	Pieces
329649	001	Closing Seal gasket	Black	300	Spool
329891	001	62mm Frame Screwported Aluminium (75mm)	Aluminium	20	Pieces
546015	701	Flush Sash 63mm	White	36 / 576	Pack / Stillage
546085	701 / 901	Slim Transom / Mullion T 69mm	White	36 / 624	Pack / Stillage
546415	701 / 901	Sculptured Casement Slim Outer Frame 52mm	White	48/ 768	Pack / Stillage
546425	701 / 901	Sculptured Casement Intermediate Outer Frame 62mm	White	36 / 576	Pack / Stillage
546435	701 / 901	Sculptured Casement Universal Outer Frame 72mm	White	36 / 480	Pack / Stillage
546665	701 / 901	Sculptured Slim Transom / Mullion T 69mm	White	36 / 672	Pack / Stillage
546816	701 / 901	Chamfered Casement Slim Outer Frame 52mm	White	48 / 768	Pack / Stillage
546826	701 / 901	Chamfered Casement Intermediate Outer Frame 62mm	White	36 / 576	Pack / Stillage
546836	701 / 901	Chamfered Casement Universal Outer Frame 72mm	White	36 / 480	Pack / Stillage
559251	701	Chamfered Georgian Bar	White	72	Pack
559261	701	Sculptured Georgian Bar	White	72	Pack
559600	701	28mm Sculptured Bead	White	144	Pack

Foiled article numbers - for foil variants and Standard / Non-standard information please see matrix on page 30/31

328222	-	Mechanical Joint Block - Sash	Foil	10	Kits
576265	-	Chamfered Slim Transom / Mullion T 69mm	Foil	36 / 12	Pack
576665	-	Sculptured Slim Transom / Mullion T 69mm	Foil	36 / 12	Pack
586015	-	Flush Sash 63mm	Foil	36 / 12	Pack
586415	-	Sculptured Slim Outer Frame 52mm	Foil	36 / 12	Pack
586425	-	Sculptured Intermediate Outer Frame 62mm	Foil	36 / 12	Pack
586435	-	Sculptured Universal Outer Frame 72mm	Foil	36 / 12	Pack
586815/586816	-	Chamfered Slim Outer Frame 52mm	Foil	36 / 12	Pack
586825/586826	-	Chamfered Intermediate Outer Frame 62mm	Foil	36 / 12	Pack
586835/586836	-	Chamfered Universal Outer Frame 72mm	Foil	36 / 12	Pack
589251	-	Chamfered Georgian Bar	Foil	72	Pack
589261	-	Sculptured Georgian Bar	Foil	36	Pack
589600	-	28mm Sculptured Bead	Foil	36	Pack

Technical Information - Foil Matrix

			White	Turner Oak on White	Turner Oak Both Sides on Acorn	Golden Oak on White	Golden Oak Both Sides on Acom	Rosewood on White	Rosewood Both Sides on Brown	Black Brown on White	Black Brown Both Sides on Brown	Anthracite Grey (Grained) on White	Anthracite Grey (Grained) Both Sides on Grey
Description	Article Number	Pack Size		20	31L	75	512	16	S8L	96	31	44	43
Flush Sash 63mm	546015 586015	36/12*	701	335* (A)	325* (AB)	321 (A)	351 (AB)	221 (A)	251 (AB)	760*(A)	750* (AB)	746* (A)	156* (AB)
Sculptured Slim Outer Frame 52mm	546415 586415	36/12*	701	335* (A)	325* (AB)	321 (A)	351 (AB)	221 (A)	251 (AB)	760*(A)	750* (AB)	746* (A)	156 (AB)
Sculptured Intermediate Outer Frame 62mm	546425 586425	36/12*	701	335* (A)	325* (AB)	321 (A)	351 (AB)	221 (A)	251 (AB)	760*(A)	750* (AB)	746 (A)	156 (AB)
Sculptured Universal Outer Frame 72mm	546435 586435	36/12*	701	335* (A)	325* (AB)	321 (A)	351 (AB)	221 (A)	251 (AB)	760*(A)	750* (AB)	746 (A)	156 (AB)
Sculptured Slim Transom / Mullion T 69mm	546665 576665	36/12*	701	335* (A)	325* (AB)	321 (A)	351 (AB)	221 (A)	251 (AB)	760*(A)	750* (AB)	746 (A)	156 (AB)
Chamfered Slim Outer Frame 52mm	546816 586815	36/12*/Pick&Pack**	701		325* (AB)		351 (AB)		251 (AB)		750* (AB)		156** (AB)
Chamfered Slim Outer Frame 52mm	586816	36/12*/Pick&Pack**		335* (A)		321 (A)		221 (A)		760*(A)		746**(A)	
Chamfered Intermediate Outer Frame 62mm	546826 586825	36/12*/Pick&Pack**	701		325* (AB)		351 (AB)		251 (AB)		750* (AB)		156** (AB)
Chamfered Intermediate Outer Frame 62mm	586826	36/12*/Pick&Pack**		335* (A)		321 (A)		221 (A)		760*(A)		746**(A)	
Chamfered Universal Outer Frame 72mm	546836 586835	36/12*/Pick&Pack**	701		325* (AB)		351 (AB)		251 (AB)		750* (AB)		156** (AB)
Chamfered Universal Outer Frame 72mm	586836	36/12*/Pick&Pack**		335* (A)		321 (A)		221 (A)		760*(A)		746**(A)	
Chamfered Slim Transom / Mullion T 69mm	546085 576265	36/12*/Pick&Pack**	701	335* (A)	325* (AB)	321 (A)	351 (AB)	221 (A)	251 (AB)	760*(A)	750* (AB)	746** (A)	156** (AB)
Chamfered Georgian Bar (All with black flipper)	559251 589251	36	701		325		790		270		760		746
Sculptured Georgian Bar (All with black flipper)	559261 589261	36	701		325		790		270		760		746
28mm Sculptured Bead (All with black gasket)	559600 589600	72	701		325		790		270		750		746
Mechanical Joint Block for Sash	328222	10 kits	001		325		351		251		750		156

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Slate Grey (Grained) on White	Slate Grey (Grained) Both Sides on Grey	Chartwell Green on White	Chartwell Green Both Sides on White	Pearl Grey on White	Pearl Grey Both Sides on White	Clotted Cream on White	Clotted Cream Both Sides on White	Simply White on White	Simply White Both Sides on White	Elephant Grey on White	Smooth Anthracite Grey on White	Smooth Anthracite Grey Both Sides on White	Smooth Slate Grey on White	Smooth Slate Grey Both Sides on White	Midnight Black on White	Midnight Black Both Sides on Brown
100	62L	120	09L	5855		44	44	97	734	9922	93	30L	130	64L	1980L	
016 (A)	111* (AB)	277*(A)	257* (AB)	018*(A)	077* (AB)	778*(A)	739* (AB)	728*(A)	134* (AB)			486* (AB)		454* (AB)		550* (AB)
016*(A)	111* (AB)	277*(A)	257* (AB)	018*(A)	077* (AB)	778*(A)	739* (AB)	728*(A)	134* (AB)							550* (AB)
016*(A)	111* (AB)	277*(A)	257* (AB)	018*(A)	077* (AB)	778*(A)	739* (AB)	728*(A)	134* (AB)							550* (AB)
016*(A)	111* (AB)	277*(A)	257* (AB)	018*(A)	077* (AB)	778*(A)	739* (AB)	728*(A)	134* (AB)							550* (AB)
016*(A)	111* (AB)	277*(A)	257* (AB)	018*(A)	077* (AB)	778*(A)	739 (AB)	728*(A)	134 (AB)	737*(A) 017*(AB)	446*(A)	486* (AB)	444*(A)	454* (AB)	530*(A)	550* (AB)
	111* (AB)															550* (AB)
016*(A)		277*(A)	257* (AB)	018*(A)	077* (AB)	778*(A)	739* (AB)	728*(A)	134* (AB)	737(A) 017*(AB)	446*(A)	486* (AB)	444*(A)	454* (AB)	530*(A)	
	111* (AB)															550* (AB)
016*(A)		277*(A)	257* (AB)	018*(A)	077* (AB)	778*(A)	739* (AB)	728*(A)	134* (AB)	737(A) 017*(AB)	446*(A)	486* (AB)	444*(A)	454* (AB)	530*(A)	
	111* (AB)															550* (AB)
016*(A)		277*(A)	257* (AB)	018*(A)	077* (AB)	778*(A)	739* (AB)	728*(A)	134* (AB)	737(A) 017*(AB)	446*(A)	486* (AB)	444*(A)	454* (AB)	530*(A)	
016*(A)	111* (AB)	277*(A)	257* (AB)	018*(A)	077* (AB)	778*(A)	739* (AB)	728*(A)	134* (AB)	737(A) 017*(AB)	446*(A)	486* (AB)	444*(A)	454* (AB)	530*(A)	550* (AB)
	016		257		018		778		754	795		446		444		550
	016		257		018		778		754	795		446		444		550
	016		257		018		778		754	795		446		454		550
	111		257		077		739		134							550

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