



REVERSIBLE & FLUSH FIT CASEMENT TECHNICAL INFORMATION REHAU TOTAL70R WINDOW SYSTEM

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Building Solutions Automotive Industry

Subject to technical changes

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Product Ordering Table Guide

The following pages show all of the window related products available in the REHAU 70mm Reversible System. You will see a drawing of the component together with its Article (identification) Number, variant number complete with a description, finish and relevant packaging size. For PVC-U profiles, you can cross reference the relevant reinforcement section.

A 3 digit variant No. after the Article No. denotes standard packaging and colour options.

Key to variant system

701	Individual packs	White profile
751(AB)	Individual packs	Mahogany foil both faces on Brown base profile
721(A)	Individual packs	Mahogany foil to Face A on White base profile
351(AB)	Individual packs	Golden Oak foil both faces on Acorn base profile
321(A)	Individual packs	Golden Oak foil to Face A on a White base profile
251(AB)	Individual packs	Rosewood foil both faces on a Brown base profile
221(A)	Individual packs	Rosewood foil to Face A on White base profile
261(B)	Individual packs	Rosewood foil to Face B on White base profile

All foiled articles are marked as to which Face is A or B on the drawing. Where profiles are symmetrical there is no need to distinguish between faces, therefore only variant 721, 321 or 221 is needed.

* Special Foils available upon request

1. GENERAL GUIDELINES

1.1 Product Description

The reversible window gives a contemporary appearance to any building and is designed to create maximum lighting effect into the room, whilst offering easy maintenance. Their unique 180 degrees reversible action means that the external face can be cleaned from the inside of the room and allows a high level of ventilation.

The flush fit window is based on an authentic, traditional design, timber window but with all the benefits of modern PVC performance. The style consists of a casement window side hung and top hung where the sash fits flush into the frame.

1.2. Window Styles

Reversible Styles

Flush Fit Styles



1.3. Storage of PVC-U profiles

The profiles are packed in PE-foil and this must be opened at both ends to provide ventilation and to prevent condensation. Under no circumstances should profiles be stored in the open and protection must be provided from moisture and direct sunlight: this also applies to storage behind glass.

The profiles must be fully supported along their entire length and stored flat and straight. Uneven support over long periods will lead to sagging and distortion of the profile.

Supporting surfaces treated with wood preservatives or other chemicals are not to be used, as discolouration of the profile may occur on exposure to UV-light.

When processed, profiles should be at the same temperature as the workshop and at a minimum of 17°C. Profiles stored at lower temperatures must be brought into the work area long enough in advance for the material to warm up, the rate of adjustment being approximately 1°C per hour. In order to assist the temperature increase the ends of the packs should be opened to allow air circulation. The minimum temperature of 17°C should be strictly observed, as welding at temperatures that are too low produces stresses which can lead to cracking.

1.4. 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.

1.5. 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 5×25 mm long. At least two slots, 70 mm from the corners and a maximum of 600 mm apart should be

1. GENERAL GUIDELINES

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.

1.6. Welding

Welding machines with welding plates faced normally in PTFE-foil are used for welding. A variety of welding methods is possible:

- Machines with the "Contour" welding process, by which the molten PVC is formed by shaped weld beads restrictors as it emerges. Thereby surface cleaning is unnecessary.
- With normal weld bead restrictors for a subsequent trim-off or grooving operation.
- Machines allowing free flow of the welding bead which necessitates subsequent surface polishing (white profiles only).

During the welding process, the welding plate temperature is $250^{\circ}C+/-5^{\circ}C$. This temperature is an optimal compromise between differing profile shapes, welding machine types and welding methods.

The recommended temperature applies to the welding plate surface including the foil. Since different heat losses arise through different foil coverings, the setting of the control device can deviate from the temperature of the plates. The ideal temperature for each individual welder must be determined together with the machine supplier by welding trials at the commissioning of the machine.

With restriction of the welding sprue and "Contour" welding, the weld bead restrictor temperature is approximately 50°C, although this can vary according to machine model and types of equipment. The thickness of the welding plate foil should not exceed 0.13mm and have a minimum coating of 70% PTFE. The welding plates must be kept free of material deposits from previous welding operations.

The cut surfaces of the profiles must be clean, dry and in particular free of machine grease or oil. The special operating instructions of the machine manufacturers must be followed. It is recommended that, from time to time, and certainly after a change of PTFE-foil, trial welding is undertaken on off-cuts of profile.

The fusing quantity is approx 2.5mm per profile face, depending on the welding machine.

The meet time (28-42 seconds, from onset of melt to start of compression, depending upon profile cross-section) and the compression force when the profiles are pressed together must be taken into account. A weld is good if a creamy smooth to slightly rough welding bead is formed. A brown coloured weld seam indicates scorching of the material from excessive heat or overlong fusion time, and is not permissible. N.B. A greyish discolouration of the efflux is not a sign of scorching. With unrestricted weld seams, an area of compression 3-5mm either side of the weld bead should be discernible. After approx 25-30 seconds cooling time, the welded item can be removed from the machine.

Accelerated cooling of the welded joint with compressed air or similar is not permissible as rapid cooling freezes in stresses which lead to the welded joint becoming brittle. Even placing the welded frame on a cold floor can accelerate cooling and thus produce uncontrollable stresses. The frames must be allowed at least 10 minutes to cool fully before further processing is attempted. After cooling down, the angle must be exactly 90°C. Any deviations necessitate re-adjustment of the profile support blocks on the welder.

It is recommended that the angle of the machine be set at 91° - 93° .

In the case of V welds, the temperature setting should take into account that a temperature build can occur at the tips of transom and mullion profiles, which may then lead to collapse. This can be avoided by reducing the welding temperature by approx 5°C. Additionally it is recommended to remove the tip of the V. With cross-welding, the through running reinforcement must be inserted immediately after welding.

The warm weld sprue must be pushed through with the reinforcement.

1. GENERAL GUIDELINES

1.7. Cleaning the weld

There are three alternative methods of surface treatment:

The "Contour" welding process:

In the welding operation, the molten material is already formed into a contoured shape by special weld bead restrictors and makes further surface treatment unnecessary. The rest of the weld bead is cut off by machinery or by hand with a special knife.

The groove-cutting process:

The welding sprue must first be restricted by weld bead restrictors on the welder and then a visible channel is cut into the profile along the weld seam with a grooving machine or router. This process requires optimal adjustment of the welding machine, since the corner strength is reduced by approximately 15%.

The polishing flat method (for white profiles only): The welding sprue is removed with a weld seam milling machine or suitable sander. Any remaining roughness is removed with an orbital, angle or belt sander. The grade of abrasive to be used should be chosen according to the type of sander, and its operating speed. In general, the grade for coarse sanding lies between 150 and 240, and for fine sanding between 240 and 320. As an abrasive, silicone carbide is particularly recommended because of its uniform grain size and structure. The treatment area should be kept as small as possible. The roughened surface needs to be resealed by use of a suitable solvent so that the general degree of polish is restored. These should be applied using cleaning paper, cellucotton or fibreless cloth and those without synthetic components.

The weld sprue on the inside corner must be removed vertically to the outer wall of the frame.

Knocking out by means of hammer and chisel is not permissible as this can cause nicks which can subsequently lead to cracking.

The outer corners are cleaned using automatic milling machines which are equipped with a cutter suited to the profile. Hand machines can also be employed, but these require more time.

1.8. Seals

The co-extruded casement seal, Art 865260 is pressed or rolled into the seal groove of the outer frame profile. The weld sprue should be removed in the corners. The ends of the seal are butted and glued together in the centre of the top rail. The EPDM Head drip seal, Art 865250, is pressed into the glazing bead groove of the top rail.

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

1.9. Fittings – Top Turn

A fittings groove is provided in the sash profile which will 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 be rotated externally through approximately 180° and is automatically held at pre-determined ventilation and cleaning positions by positive stops.

1. GENERAL GUIDELINES

1.10. Application of supplementary profiles

Profile combinations are possible with supplementary profiles from the 70mm range. Manufacturing instructions for the individual profiles should be followed.

Coupled subframes

Subframes can be extended, where required, to overcome variations in building details by means of these supplementary profiles. With elements greater than 4m an expansion joint must be provided. Expansion joints may not be bridged by carcassing, support profiles like cills, etc. The whole length of the leading edge must not be prevented from moving. When using clip-on or coupling supplementary profiles it is necessary to seal the external joint with elastic sealants before elements are fixed. PVC sheeting being single layer is, because of complete thermal penetration, subject to high movement, and should only be used externally after due consideration of the dimensional relationships. Rigid fixings and strip widths in excess of 100mm should not be used.

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 using a butt-joint ensure that the vertical beads are scribed on to the horizontal beads to prevent ingress of water.

1.11. 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.

1.12. 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.

For further information please contact the Sales Office.

1.13. Maximum sizes for white windows

Top Turn opening lights Min - Max W (mm) 500 - 1500 H (mm) 500 - 1500 Area (m²) 2.25 Weight (kg) 60

Element Sizes:

Maximum profile length with fixed light = 3mMaximum surface area = $6m^2$ Maximum profile length with element combinations = 4mMaximum surface area = $6m^2$

For more detailed information please refer to section 4, maximum sash size recommendations.

2.PROFILES

2.1. Main Profiles



62mm Outerframe White Profile Art. 546930 Laminated Profile Art. 586930

		216880
-+R	٢	1.5mm
lx		0.99 cm4
ly		0.22 cm4

216880 - 31 x 12 x 1.5mm



67mm Sash White Profile Art. 546940 Laminated Profile Art. 586940

	216885		216895		
÷	ţ	1.5mm	1.5mm		
	lx	1.98 cm4	1.65 cm4		
	ly	0.71 cm ⁴	0.41 cm4		

216885 - 34 x 28 x 16.5 x 1.5mm



216895 - 34 x 14 x 1.5mm





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REHAU TOTAL70R TECHNICAL INFORMATION 2.PROFILES

2.1. Main Profiles





	268138
	1mm
lx	0.79 cm4
ly	0.12 cm4

268138 - 30 x 10 x 1.0mm



Z Transom / Mullion White Profile Art. 546960 Laminated Profile Art. 586960

		216890
-	4	1.5mm
Γ	lx	1.40 cm4
Γ	ly	0.54 cm4

216890 - 30.5 x 16.5 x 1.5mm





2.PROFILES

2.2. Ancillaries



Co-extruded Glazing Bead 18.5mm White Art. No. 546572 Laminated Art. No. 576572



Co-extruded Glazing Bead 18.5mm White Art. No. 546132 Laminated Art. No. 576132



865250 Black



14mm Brushpile 314995 Grey

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Please refer to the REHAU TOTAL70 Glazing Recommendations for full glazing options.



Co-extruded casement seal 865260 Grey



Casement seal 864003 Black

3. PRODUCT DRAWINGS

3.1 Reversible Sill detail - Sash and Frame





3.2 Reversible Head detail - sash and frame





REHAU TOTAL70R TECHNICAL INFORMATION 3. PRODUCT DRAWINGS

3.3 Reversible Z Transom detail



3. PRODUCT DRAWINGS

3.4 Reversible T Transom detail



3. PRODUCT DRAWINGS

3.5 Reversible tilt & turn combination

















3.8.a Spilka alternative gasket combination





3. PRODUCT DRAWINGS3.8.b Spilka alternative gasket combination





3. PRODUCT DRAWINGS

3.9 Flush Fit Sill detail



3. PRODUCT DRAWINGS

3.10 Flush Fit head detail





3. PRODUCT DRAWINGS

3.11 Flush Fit Z transom detail



3. PRODUCT DRAWINGS

3.12 Flush Fit T transom detail







3.13 Flush Fit jamb detail



3. PRODUCT DRAWINGS

3.14 Flush Fit Peder Nielson Flush Fit Casement Indicative hinge detail



4. MAXIMUM SASH SIZE RECOMMENDATIONS

4. Maximum Sash Size Recommendations



546940 67mm Reversible Sash



Reversible Top Hung Configuration - Max Weight 60Kg



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

Size subject to manufacture

Unreinforced sash

Article No.	Reinforcement	Description	I-Value
216885		34 x 28 x 16.5 x 1.5 mm	lx 1.98 cm⁴ ly 0.71cm⁴
216895		34 x 14 x 1.5 mm *To be used on hinge sides in conjunction with 216885	lx 1.65 cm⁴ ly 0.41cm⁴

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All sizes and weights subject to hardware suppliers recommendations.

4. MAXIMUM SASH SIZE RECOMMENDATIONS

4.1 Maximum Sash Size Recommendations for Flush Fit Casement system

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

Size subject to manufacture

Article No.	Reinforcement	Description	I-Value
216885		34 x 28 x 16.5 x 1.5 mm	lx 1.98 cm ⁴ ly 0.71cm ⁴
216895		34 x 14 x 1.5 mm *To be used on hinge sides in conjunction with 216885	lx 1.65 cm⁴ ly 0.41cm⁴

All sizes and weights subject to hardware suppliers recommendations.

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5. MANUFACTURING DEDUCTIONS

5.1 Single Sash

Single Sash Reversible

Sash Outer Edge	а	=	ES - 98
Sash Rebate	b	=	ES - 115
Sash Glazing Rebate	С	=	ES - 192
Sash Glass Size	d	=	ES - 202
Sash Inner Edge	е	=	ES - 232
Frame Inner Edge	f	=	ES - 122
Frame Outer Edge	g	=	ES - 84
Frame Rebate	h	=	ES - 59

5. MANUFACTURING DEDUCTIONS

5.2 Single sash with Z mullion

Single Sash with Z Mullion

Sash Outer Edge	а	=	AS - 77
Sash Rebate	b	=	AS - 94
Sash Glazing Rebate	С	=	AS - 171
Sash Glass Size	d	=	AS - 181
Sash Inner Edge	е	=	AS - 211
Frame Inner Edge	f	=	AS - 101
Frame Outer Edge	g	=	AS - 63
Frame Rebate	h	=	AS - 38

5. MANUFACTURING DEDUCTIONS

5.3 Two sashes with T mullion

Two Sash with T Mullion

Sash Outer Edge	а	=	AS - 77
Sash Rebate	b	=	AS - 94
Sash Glazing Rebate	С	=	AS - 171
Sash Glass Size	d	=	AS - 181
Sash Inner Edge	е	=	AS - 211
Frame Inner Edge	f	=	AS - 101
Frame Outer Edge	g	=	AS - 63
Frame Rebate	h	=	AS - 38

5. MANUFACTURING DEDUCTIONS

5.4 Multi element with Z mullion

Multi Sash with Z Mullion

Sash Outer Edge	а	=	AS - 56
Sash Rebate	b	=	AS - 73
Sash Glazing Rebate	С	=	AS - 150
Sash Glass Size	d	=	AS - 160
Sash Inner Edge	е	=	AS - 190
Frame Inner Edge	f	=	AS - 80
Frame Outer Edge	g	=	AS - 42
Frame Rebate	h	=	AS - 17

5. MANUFACTURING DEDUCTIONS

5.5 Multi element with T mullion

Sash Outer Edge	а	=	AS - 56
Sash Rebate	b	=	AS - 73
Sash Glazing Rebate	С	=	AS - 150
Sash Glass Size	d	=	AS - 160
Sash Inner Edge	е	=	AS - 190
Frame Inner Edge	f	=	AS - 80
Frame Outer Edge	g	=	AS - 42
Frame Rebate	h	=	AS - 17

Multi Sash with T Mullion

5. MANUFACTURING DEDUCTIONS

5.6 Transom welding

Element size to mullions taken from their centre line. Each joint taken individually. Sized on first cut point at transom. Fusing quantity must be added (2.5mm each side). Transom into sashes individual joints deductions taken from calculated sash sizes. Welded cut length of transoms and mullions into frame and sash profiles can also be obtained by using the sub-frame inner edge deduction or sash inner edge deduction "e" as detailed in the fabrication size tables and then adding twice the width of the transom profile used to the igure obtained from the respective "f" or "e" deductions as shown.

	transoms into frames			
Art. No.	Art. No. 546950 W = 82	Art. No. 546960 W = 82	Art. No. 546080 W = 69	
546930 W = 62	ES + 10	ES + 10		
	v into transoms			
546950 W = 82	AS + 41	AS + 41		
546960 W = 82	AS + 4	AS + 41		
	transoms into sashes			
546940 W = 67			SS + 2	

REHAU TOTAL70R TECHNICAL INFORMATION 6. REINFORCEMENT INSTRUCTIONS

6.1. Outer frame (Art.No. 546930)

- All jambs to be reinforced where fittings to be used.
- Upper horizontal members to be reinforced if they cannot be adequately anchored to masonry.
- Lower horizontal members to be reinforced if fixed glazing weight over 100kg.

6.2. Sash (Art.No. 546940)

- Sash members to be reinforced when over 1100 x 1100mm. Please refer to maximum sash sizes, section 4.

6.3. Transom/Mullion (Art.No. 546950 & 546960)

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

6.4. General notes

- Reinforcement screw to be located approximately 50mm from each profile end and spaced at approximately 500mm intervals for white profile 250mm intervals for coloured/foiled, see diagram below).

- 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.

REHAU TOTAL70R TECHNICAL INFORMATION 7. FLUSH FIT CASEMENT - HINGE FITTING GUIDELINES

Top Hung Window

- PN Top hung hinges used as standard fitting into the PN channel. The large side of the Aluminium Track should be positioned nearest to the upstand

Side Hung Window

- Make sure the internal rebate weld is clean.
- PN side hung hinges are offset. The bottom hinge is designed to take the load off the sash.
- The load bearing hinge sits in the PN track at the bottom of the window and should be positioned
- 12.5mm from the frame rebate.
- The top hinge is positioned flush to the corner rebate.

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Please ensure you consult your hardware supplier for latest information

8.DRAINAGE

8.1. Sash

8.2. Outer frame

9. WEDGING INSTRUCTIONS

Top Turn

- 1 = Load bearing setting blocks (approx. 100 m long)
- 2 = Location blocks
- 2 * = Load bearing when sash in reversed position

Installation notes

- Glass to be adequately wedged with load bearing and location blocks 50 mm from internal rebate corners.
- Factory glazed frames to be wedged at right angles.
- On site glazed frames to be wedged and checked for correct functioning of sash (NB: different thicknesses of blocks may be required.)
- Load bearing and location blocks secured in position using silicone sealant ensuring blocks do not inhibit drainage in glazing rebate.

2 * = Load bearing when sash in served position

REHAU TOTAL70R TECHNICAL INFORMATION 10. U-VALUE DATA

Frame & sash Uf: 1.5 W/m²K

Z Transom/Mullion Uf: 1.6 W/m²K

Frame & sash Uf: 1.6 W/m²K

Z Transom/Mullion & Sash Uf: 1.7 W/m²K

Frame & sash Uf: 1.6 W/m²K

T Transom/Mullion & 2 Sashes Uf: 1.6 W/m²K

Frame & sash Uf: 1.7 W/m²K

T Transom/Mullion & 2 Sashes Uf: 1.8 W/m²K

The table shows the overall U value of the 70 mm Reversible window based on the standard window configuration 1230 x 1480mm - Reversible next to fixed, when combined with a glazing unit having a centre pane U value as shown.

Glazing centre pane U value (W/m²K)	Overall U value (W/m ² K)			
	Standard reinforced	Fully reinforced		
1.5	1.63	1.67		
1.4	1.56	1.61		
1.3	1.50	1.54		
1.2	1.43	1.47		
1.1	1.36	1.41		
1.0	1.30	1.34		
0.9	1.23	1.28		
0.8	1.17	1.21		

Calculations are based on using warm edge spacer bar $\psi=0.03$ W/mK.

11. PRODUCT ORDERING TABLE

	1	T				Col	our
Article	Variant			Quantity		e	er -
Number	Number	Description	Finish	(metres)	Packaging	Whi	Othe
216880	001	Reinforcement 31 x 12 x 1.25mm	Galvanised steel	6m	Length		*
216885	001	Reinforcement 34 x 28 x 16.5 x 1.5mm	Galvanised steel	6m	Length		*
216890	001	Reinforcement 30.5 x 16.5 x 1.5mm	Galvanised steel	6m	Length		*
216895	001	Reinforcement 34 x 14 x 1.5mm	Galvanised steel	6m	Length		*
268138	001	Reinforcement 30 x 10 x 1mm	Galvanised steel	6m	Length		*
314995	001	14mm Brushpile	Grey	100m	Spool		*
546930	701	Outer Frame	White	24m	Pack	*	
546940	701	Sash	White	36m	Pack	*	
546950	701	T Transom	White	36m	Pack	*	
546960	701	Z Transom	White	36m	Pack	*	
576132	251	Low Level co-ex Putty-line Glazing Bead 18.5mm	Rosewood	72m	Pack		*
576132	751	Low Level co-ex Putty-line Glazing Bead 18.5mm	Mahogany	72m	Pack		*
576132	790	Low Level co-ex Putty-line Glazing Bead 18.5mm	Golden Oak	72m	Pack		*
576572	251	Co-extruded Glazing Bead 18.5mm	Rosewood	144m	Pack		*
576572	751	Co-extruded Glazing Bead 18.5mm	Mahogany	144m	Pack		*
576572	790	Co-extruded Glazing Bead 18.5mm	Golden Oak	144m	Pack		*
586930	221/251	Outer Frame	Rosewood	12m	Pack		*
586930	721/751	Outer Frame	Mahogany	12m	Pack		*
586930	321/351	Outer Frame	Golden Oak	12m	Pack		*
586940	221/251	Sash	Rosewood	12m	Pack		*
586940	721/751	Sash	Mahogany	12m	Pack		*
586940	321/351	Sash	Golden Oak	12m	Pack		*
586950	221/251	T Transom	Rosewood	12m	Pack		*
586950	721/751	T Transom	Mahogany	12m	Pack		*
586950	321/351	T Transom	Golden Oak	12m	Pack		*
586960	221/251	Z Transom	Rosewood	12m	Pack		*
586960	721/751	Z Transom	Mahogany	12m	Pack		*
586960	321/351	Z Transom	Golden Oak	12m	Pack		*
864003	001	Casement Seal	Black	400m	Spool		*
865250	001	Head Drip Seal	Black	200m	Spool		*

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