



REHAU TOTAL70 WINDOW AND DOOR SYSTEM SYSTEM DESCRIPTION

www.rehau.co.uk/windows

THE MORE COMPLETE SYSTEM

The REHAU TOTAL70 Window and Door System comprises of a range of multi-chambered profiles that are designed to meet the requirements of the new build, commercial and domestic refurbishment markets.

There are two aesthetic options to choose from REHAU TOTAL70c is predominantly a Chamfered system with a part sculptured 'T' Sash option and REHAU TOTAL70s is a suite of fully Sculptured profiles.





Also within the REHAU TOTAL70 System are the REHAU TOTAL70 $_{\rm MF}$ a suite of Multi-Fold Door profiles and REHAU TOTAL70 $_{\rm R}$ a Reversible system, both integrate completely with all of the REHAU TOTAL70 Window and Door System.





The REHAU TOTAL70 Window and Door System can be manufactured in the following window and door types/styles:

- Internally beaded casement window
- Externally beaded casement window*
- Doors residential, tilt/slide and French doors
- Multi-fold doors
- Tilt and turn window
- Pivot window-horizontal*
- Fully reversible window horizontal and vertical*
- Conservatory
- Bay and bow window

Glazing thickness from 4 to 44mm can be accommodated (double or triple glazing) 28mm is the more common option. Single glazing can be incorporated as an internally beaded option.

Galvanised steel reinforcement sections are available for the main profiles to meet most specification requirements. The REHAU TOTAL70 system has been proven over many years. The main profiles are extruded in accordance with BS EN 12608. The system holds both the BSI (Kitemark) and is BBA approved.

Range of Colours

REHAU TOTAL70 is available in white and a range of woodgrain laminate options as follows:



- A further range of woodgrain and solid colour laminate options are available on special order.
 REHAU TOTAL70s is also available in Mahogany on special order.
- Profiles can also be finished in over 150 RAL colours using the REHAU Acryl II Colour Coating System.

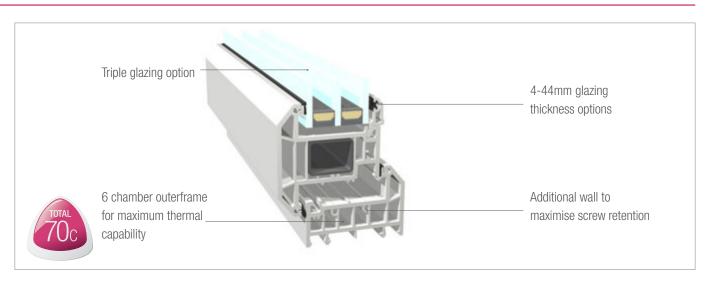
Ancillaries

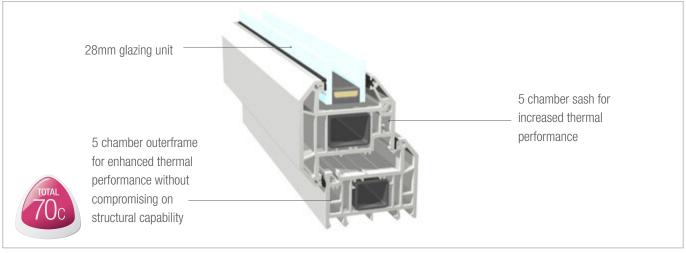
All ancillary profiles are compatible across the entire REHAU TOTAL70 range for a total solution with limited stock holding requirements.

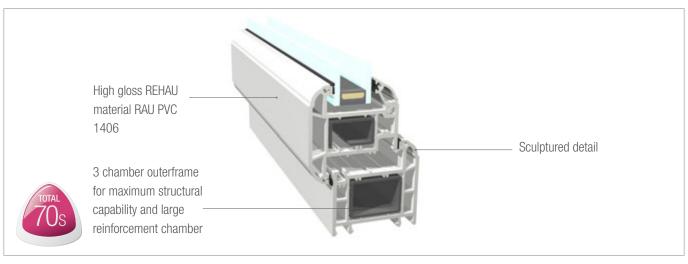
Fittings

All modern standard fittings and hardware (including shootbolts, hook locks and 'dog' bolts) can be used and are available from various fitting suppliers.

*Doesn't apply to REHAU TOTAL70s







PERFORMANCE

Material

REHAU window profiles are manufactured from high performance, weather-resistant and impact modified RAU PVC 1406. Our renowned high gloss profiles are extruded to CEN A standard and to BS EN 12608 requirements. REHAU has proven itself over fifty years of window system production to be one of the global market leaders in polymer manufacture.

Quality Assurance

REHAU profiles are subjected to the most stringent in-house quality controls incorporating a quality assurance system to BS EN/ISO 9001 ensuring consistency of quality.

Climatic Performance and Security

REHAU systems are tested to the highest levels of performance in all aspects and when it comes to weather performance the REHAU TOTAL70 window and door system is no exception. Independently tested by UKAS accredited test houses, REHAU TOTAL70 window and door system reaches the highest exposure categories under BS 6375 (wind resistance and weather performance) and passes the security standard BS 7950 and PAS 24 (security performance for doors) enabling straightforward compliance to Secure by Design.

Sound insulation

For windows and doors, the sound insulation largely depends on the glazing units used, in particular the variation of glass thickness and air space dimensions.

For example:

Double glazing 4-12-4mm: 30dB Double glazing 6-12-4mm: 34dB

In general the thicker the glass pane the more sound proof the window will be.

Thermal Performance

Thermal performance in the construction industry has become a major consideration and windows and doors are not exempt from this. Part L (England & Wales) and Part J (Scotland) of the building regulations places strict emphasis on the performance of windows, not only in new build properties, but also the replacement of existing windows.

The REHAU TOTAL70 window and door system is capable of exceeding all current building regulations and can be specified to the highest thermal performing new build projects having achieved values required for Passivhaus installations.

As well as achieving the lowest possible U values, the REHAU TOTAL70 window and door system also achieves the best possible window energy rating (WER) across the range. "A" rated windows are available for both the 70c and 70s systems requiring only common double glazed units to achieve it.



Windows that achieve C ratings or above can be included in the Energy Savings Trust scheme and can display the logo as above.

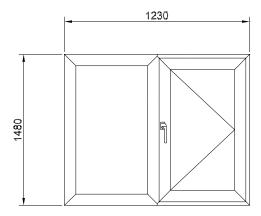
With the 5 chamber profiles and especially with the thermally enhanced 6 chamber frame, these higher ratings are even more easily achieved.

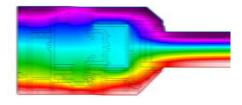
Enhancing the profile selection improves the overall

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.

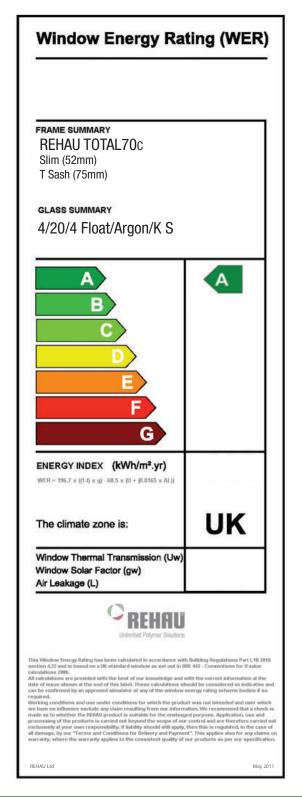
Frame	W/m ² K		
3 chamber fully reinforced	1.66		
3 chamber standard reinforced	1.52		
5 chamber fully reinforced	1.48		
5 chamber standard reinforced	1.39		
6 chamber standard reinforced	1.29		

All values are calculated in accordance with BS EN ISO 10077-1 & 2. Frame U values are based on the UK standard window 1230 wide x 1480 high, an opening light next to fixed.



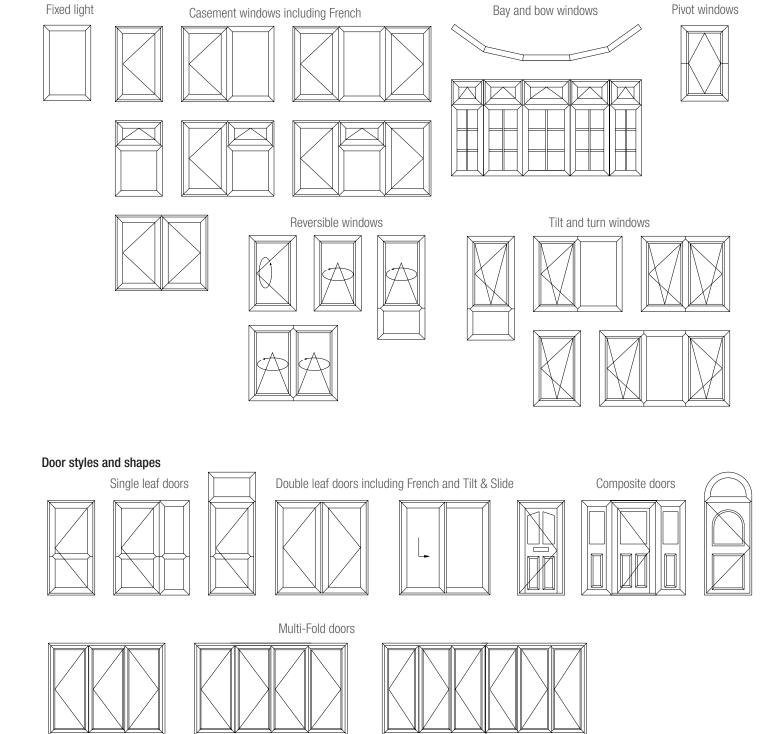


BFRC approved window energy ratings (WER) and FENSA approved U values can quickly and easily be calculated free of charge using the REHAU online thermal calculator www.rehauanswers.com from this energy performace labels can be produced.



STYLES AND SHAPES

Window styles and shapes



MAXIMUM SIZES FOR ELEMENTS AND UNITS









		Windows (outer dimension of sash profile)											
		Side hung			Top hung			Tilt and Turn			French Windows		
Sash Style	Colour	w x h (m)	a (m²)	m (kg)	wxh(m)	a (m²)	m (kg)	w x h (m)	a (m²)	m (kg)	wxh(m)	a (m²)	m (kg)
T sash	White	0.9x1.5	1.35	40	1.2x1.2	1.44	40	-	-	-	0.8x1.5	1.2	40
	Woodgrain	0.9x1.5	1.35	40	1.2x1.2	1.44	40	-	-	-	0.8x1.5	1.2	40
Z sash	White	0.9x1.5	1.35	40	1.2x1.2	1.44	40	-	-	-	0.8x1.5	1.2	40
	Woodgrain	0.9x1.5	1.35	40	1.2x1.2	1.44	40	-	-	-	0.8x1.5	1.2	40
Tilt and Turn	White	-	-	-	-	-	-	1.2x1.5	1.8	60	-	-	-
	Woodgrain	-	-	-	-	-	-	1.2x1.5	1.8	60	-	-	-
Reversible	White	0.9x1.2	-	60	1.4x1.4	-	60	-	-	-	-	-	-
	Woodgrain	0.9x1.2	-	60	1.4x1.4	-	60	-	-	-	-	-	-

		Doors (outer dimension of door profile)											
		Residential Door			French Door			Tilt & Slide			Multi-fold Door		
Sash Style	Colour	wxh(m)	a (m²)	m (kg)	w x h (m)	a (m²)	m (kg)	wxh(m)	a (m²)	m (kg)	wxh(m)	a (m²)	m (kg)
T Door sash	White	1.0x2.2	-	100	0.85x2.2	-	100	-	-	-	-	-	-
	Woodgrain	1.0x2.1	-	100	0.7x2.1	-	100	-	-	-	-	-	-
Z Door sash	White	1.0x2.2	-	100	0.85x2.2	-	100	1.5x2.3	-	100	0.9x2.1	-	80
	Woodgrain	1.0x2.1	-	100	0.7x2.1	-	100	1.1x2.3	-	100	0.9x2.1	-	80



Maximum sizes shown are calculated using the maximum gauge steel reinforcement shown within the 706.695EN REHAU TOTAL70 Maximum Sash Size Recommendations & Transom, Mullion & Couplers. Windows have been calculated using a windpressure of 2400Pa and Doors 1200Pa. Sizes are subject to instructions provided by fitting suppliers.

White Profile

Max. profile length for fixed lights = 3.0m; max. area = $6.0m^2$ Max. profile length for multi-lights = 4.0m; max. area = $6.0m^2$ Tilt and Slide Patio Door; max. area = $8.0m^2$

Coloured/Woodgrain Profile

Max. profile length for fixed lights =3m; max. area $=4.0m^2$ Max. profile length for multi-lights =3m; max. area $=4.0m^2$ Tilt and Slide Patio Door; max. area $=6.0m^2$

Multi-Fold Doors: For details on combinations and overall sizes refer to Multi-fold Door Manufacturing Recommendations 706.708EN/454.

Coupled Subframes: White: With element 'runs' greater than 4.0m in length an expansion joint must be provided. Coloured/Woodgrain: With element 'runs' greater than 3m in length an expansion joint must be provided.

UK & IRELAND SALES OFFICES

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