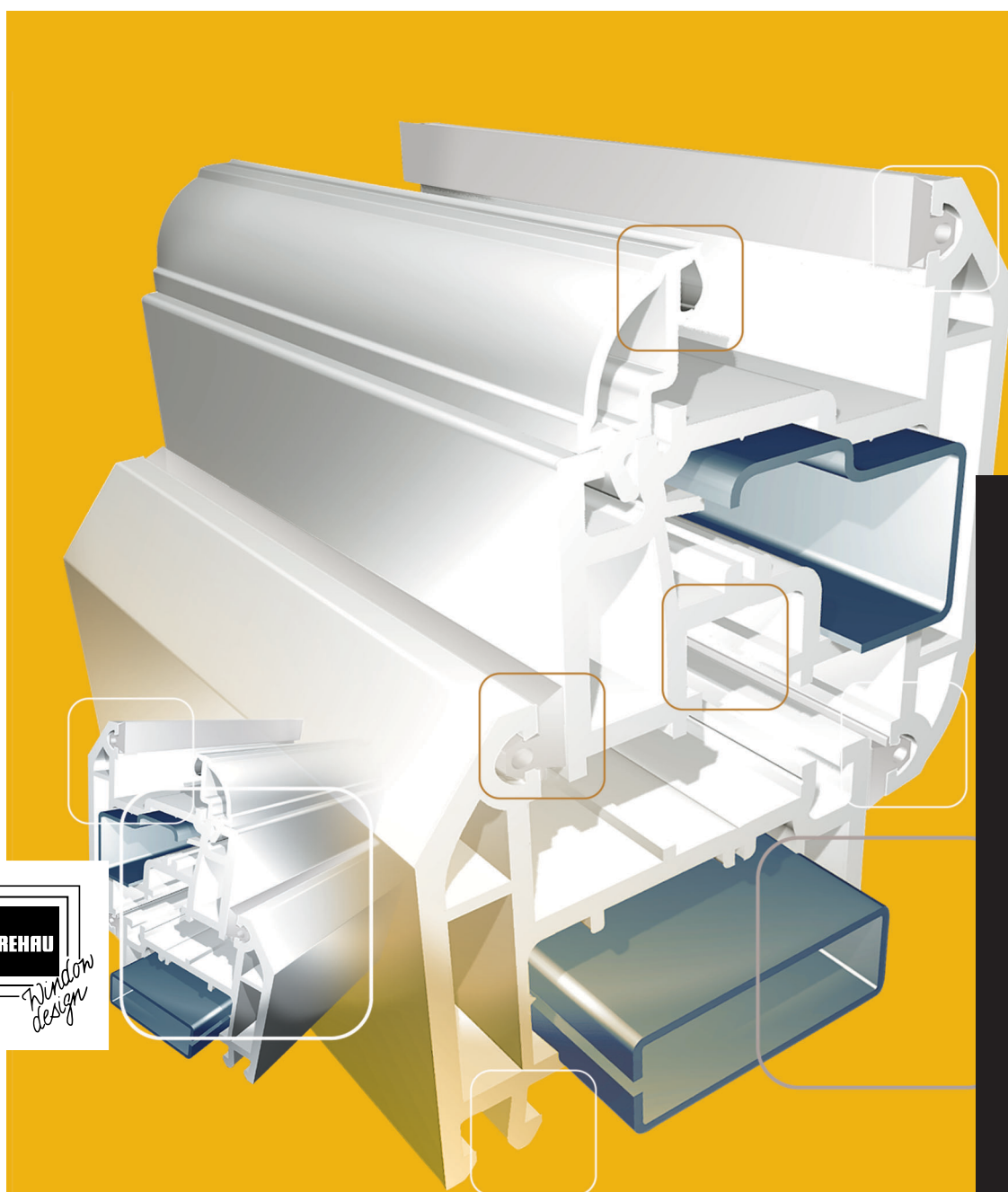


REHAU®

REHAU *Tritec*
60mm Window and Door System



Windows
make
houses



System Description



Introduction

REHAU-Tritec is the brand name for a particular group of REHAU PVCu window and door extruded profiles and other components collectively known as a Window and Door 'System'.

The word 'System' describes that the individual profiles and components have been designed in such a way as to be capable of being used with each other in different combinations to make a wide variety of windows and doors and other fenestration products in a variety of styles and sizes.

REHAU Ltd. is the 'System' designer and produces and sells the PVCu extrusion profiles. Other components of the system such as plastic mouldings, steel reinforcements and EPDM gaskets are designed and sold by REHAU but not necessarily made by REHAU.

Please note that REHAU Ltd. is not the window and door designer, manufacturer or installer. These functions are in the hands of independent window and door fabricating and installation companies who purchase their components from REHAU Ltd., or each other.

However, as the system designer, REHAU has created manufacturing guidelines, reinforcement guidelines, recommended maximum sizes, recommended installation procedures - all in an attempt to ensure that the fabrication companies manufacture and install finished products, incorporating REHAU components, that are safe and perform well in use. In most instances safety and performance criteria are taken from national standards eg. BSI. Please see the appropriate sections of the Technical Manual for details.

REHAU would therefore like to point out that because of the differing conditions and requirements of individual sites, it is the responsibility of the window / door designer, fabricator and installer to check the suitability of REHAU-Tritec components used.



General Description and Features

REHAU-Tritec System:

■ Is fully integrated.

This is to say that all main profiles have a common glazing rebate that allows any profile to be welded at 90 degrees to any other for maximum versatility with easy fabrication (excludes articles 503430 and 503850).

■ Has a popular frame depth of 60mm.

This suits most building details.

■ Has slimline 'chamfered' or 'sculptured' sightlines.

For improved aesthetics.

■ Is a 'three chamber' system.

This is to say that the main profiles all have three separate internal air spaces across the 60mm frame depth - two smaller outer chambers which can be used for drainage and one central large chamber where reinforcement can be inserted for additional strength. Three chamber systems give better thermal performance than two or single chamber systems.

■ Allows all hardware to be fixed into steel.

This gives improved performance.

■ Has a sash to frame overlap of 8mm.

This provides good weather performance.

■ Has a standard glazing upstand of 20mm.

This allows adequate cover for glass units (excludes articles 503430 and 503850).

■ Has an in-board fittings groove (Eurogroove).

This gives improved security performance.

■ Accommodates 18mm stack height hinges.

This allows heavier sashes to be supported.

■ Has positive hinge location.

This makes fabrication easier and gives support to the hinge and resistance to movement during operation.

■ Has single leg glazing beads.

This provides easy but secure on-site glazing.



Components List

The full range of profiles and other components can be found in the Profile Print.



Materials

REHAU PVCu extruded profiles are made from REHAU's own recipe of window grade PVCu called RAU PVC 1406 which it developed and has used with great success in all of its European window and door systems for many years. However, the suitability of this material for use in windows and doors outside of the UK should be checked with REHAU.

Whilst this recipe is a closely guarded company secret, statements on its general make-up, performance characteristics, etc can be made on application.

Details of materials used to manufacture other components, not made by REHAU can be given on application.



Colours

REHAU-Tritec is made and stocked in three standard colours - REHAU White (nearest RAL 9016), Mahogany wood effect laminated foil on a Brown base (nearest RAL 8017) and Golden Oak wood effect laminated foil on an Acorn base (nearest RAL 8008).

Some profiles are also available with Mahogany or Golden Oak outside / white inside. Mouldings and other components are available in compatible colours. Other wood effect laminates can be produced to special order.

Additionally, REHAU-Tritec can receive REHAU Acryl II colour coating giving a total of more than 150 RAL colours.



Window and Door Types

- Outward Opening Casement Windows - internally and externally beaded
- French Windows - internally and externally beaded
- Tilt and Turn Windows
- Pivot Windows
- Single Doors - glazed or panelled
- Double Doors - glazed or panelled
- Doors with side panels and fanlights
- Tilt and Slide Patio Doors
- Conservatory / Porch window and door elements
- Window elements in screen walling and ribbon windows



Window and Door Styles

The possibilities are almost endless and limited only by the design imagination of the fenestration designer. All popular styles can be created. There are however size limitations arising out of safety factor considerations, physical performance requirements and other manufacturing restrictions. See recommended maximum sizes.



Window and Door Performance

Typical REHAU-Tritec Windows and Doors have undergone physical performance validation tests for:

- Thermal Performance
- Acoustic Performance
- Structural Performance to meet BS6375 Part 1 at 1200, 1600 & 2000 pa.
- Weather Performance to meet BS6375 Part 1
- Security Performance to BS7950 for windows and PAS 23/24 for doors

Results are available through the Window Technical Applications Department. Model certificates for BS7450 and PAS 23/24 are also available.



Fully integrated



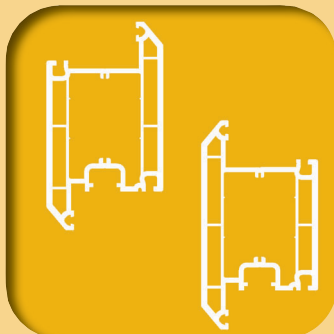
In-board fittings groove (Eurogroove)



Slimline 'chamfered' sightlines



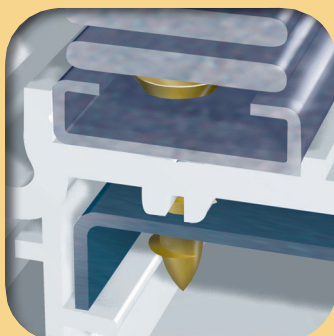
18mm stack height hinges



Three chamber system



Positive hinge location



Hardware fixed into steel



Single leg glazing bead



System Certification

REHAU-Tritec has been assessed by BSI to BS7413 and BBA. The profiles that are accredited to BS7413 are listed as such in the Profile Print. REHAU Window and Door manufacturers using REHAU-Tritec are able to apply to BSI for BS7412 accreditation and similarly to BBA.

REHAU-Tritec has also been designed in accordance with the forthcoming CEN standard - BS EN 12608 (see Profile Print for clarification).

Our verbal and written advice relating to technical applications is based on experience and is to the best of our knowledge correct but is given without obligation. The use of REHAU products in conditions that are beyond our control or for applications other than those specified releases us from any obligation in regard to claims made in respect of the products. We recommend that the suitability of any REHAU product for the intended application should be checked. Utilization and processing of our products are beyond our control and are therefore exclusively your responsibility. In the event that a liability is nevertheless considered, any compensation will be limited to the value of the goods supplied by us and used by you. Our warranty assumes consistent quality of our products in accordance with our specification and in accordance with our general conditions of sale.

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