

REHAU S719 vertical sliding windows in PVC-U

GENERAL

Introduction REHAU supplies over 40,000 products to a wide range of markets including the automotive, medical and building industries. The company's PVC-U window extrusions have been tried and tested in many countries over the past 30 years. The full range of window and door profile systems comprises casement, tilt and turn, fully reversible and vertical sliding windows, conservatories, entrance doors, patio doors and curtain walling.

The manufacture and installation of REHAU windows are carried out by a nationwide network of approved fabricators. Every fabricator is trained initially by the REHAU Technical Applications Department and subsequent refresher and new product courses are offered.

Applications The REHAU vertical slider is designed to be used in homes and prestige installations, both newly built or in refurbishment of older buildings. It is of particular interest to those engaged in the renovation of historical or listed buildings. The introduction of the heritage sash profiles followed extensive consultation and research with conservation bodies and housing associations.

Authority The REHAU S719 window has received approval from the British Board of Agrément (Assessment No: 860) and has been tested by Macdata (CZ81) and Airo Acoustics Laboratory (Certificate No: L/1938/A). REHAU's quality control systems are registered under the BSI scheme to BS EN ISO 5002 (Certificate Nos: FM 11745 and FM 11589). The window has been approved for use in many conservation areas.

DESCRIPTION

The high weather performance of the REHAU vertical sliding window has been achieved by the relationship between sash, perimeter brush seals and a silicone compression seal to the outer frame. Sashes slide in opposing directions but can be tilted inwards for easy cleaning. This easy cleaning facility is protected from accidental operation by the interlock profile, which in turn cannot be removed by upward pressure.

This feature can be disabled for larger window sizes and for certain tenants. The system is designed to take 2 or, for extra weather performance, 3 perimeter sash seals.



Right top: REHAU S719 heritage style vertical sliding windows installed in a Wakefield conservation area

Right centre: Internal view of a REHAU S719 heritage style vertical sliding window

Right: REHAU S719 heritage style vertically sliding windows installed in a Georgian property in Cheltenham

DESCRIPTION (continued)

Heritage applications Three sash profiles replicate the traditional putty line chamfer externally and a sculpture joinery detail on the glazing bead to the inside. Traditional timber aesthetics may be replicated by combining sight lines of 35 mm, 45 mm and 75 mm.

Glazing Sashes are internally glazed with a co-extruded glazing bead, thus facilitating glass removal in case of glass breakage.

Heritage sashes (559150, 559160 and 559190): 24 mm units.
Standard sashes (559030): 4 - 6 mm single or 20 - 24 double units.

Dimensions Maximum sash sizes dependent on type of balances and glazing configuration used are as follows:

Sash profile	Maximum width (mm)	Maximum height (mm)
559150 and 559160 (slim heritage)	1170*	2450*
559150 and 559160 (standard heritage)	1500*	3000*
559030 (slim commercial)	1350*	2450*

*It is not permissible to manufacture the product at maximum height and width. Full details are available from the REHAU sales offices.

Appearance Standard colour is white. The REHAU S719 window is designed to mirror common timber sightlines and can include an external Georgian bar and traditional sash horns if required. Profiles can be coloured in 150 RAL colours by using the REHAU Acryl II coating process.

PERFORMANCE

Mechanics REHAU PVC-U is classified as high impact resistant when tested in accordance with BS 7413. It maintains its excellent impact resistance between -40°C and +40°C.

Heat Between +40°C and +60°C, there is a slight reduction in rigidity.

Fire REHAU PVC-U is difficult to ignite and will self-extinguish when the source of heat is removed.

Chemical REHAU PVC-U is resistant to atmospheric pollution and a range of acids and alkalis.

Durability REHAU PVC-U's special formulation for external use gives excellent resistance to weathering and ageing and has been in use for over 25 years without deterioration.

MAINTENANCE

The only maintenance of REHAU PVC-U windows required is a regular six monthly wipe with a damp cloth to maintain appearance. Locks can be lubricated. Information on the maintenance of balances is available from the company.

SUPPLY

Availability A list of fabricators and installers is available from the company at the addresses below. There are specialised commercial fabricators capable of manufacturing and installing large contracts.

SERVICES

Installation There are a number of REHAU fabricators who specialise in the S719 system. A list of these is available from REHAU.

Technical Static calculations and CAD drawings are available to assist architects/specifiers and may be obtained through the nearest REHAU sales office listed below.

REFERENCES

For information on other products manufactured from REHAU sections, please see the following RIBA KeyFile Library data sheets at KeyFile Section (31.4):

Casement windows, Tilt and turn windows and Fully reversible windows.

The commercial sales managers at the regional sales offices listed below will be able to provide more detailed information including reference installations if required. Before specifications are finalised reference to the S719 system description reference 719.600E, available from any of the REHAU sales offices, is advised.

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