

Ventrolla Renovated Window

Phase 2 - Performance Upgrade

The Ventrolla Perimeter Sealing System (VPSS) has been specifically designed to be installed into any shape or size wooden window or door.

The system upgrades the performance of original wooden windows and doors without affecting either their appearance or character.

As shown in Diagram A overleaf, the system is installed to provide a seal on all faces and becomes an integral part of the window or door.

- The system’s core benefits are:
- Virtually eliminates draughts and leaks
 - Eradicates sash rattle
 - Improves Window’s Energy Rating by up to 30%
 - Helps reduce noise problems
 - Ensures smooth operation of the window
 - Recognised by English Heritage, Historic England, Historic Scotland and Cadw

Application

A Perimeter Sealing System using Weatherfin two-piece parting bead, comprising of a pile carrier fitted into a U-section, is installed in and around the sashes.

- The sealing system:
- Conforms to BS 7386: 1997
 - Conforms to BS EN 12207 : 2000 and BS6375-1: 2009, Class 3
 - Is manufactured from multifilament polypropylene yarn that is silicon treated to be water repellent and UV stabilised
 - Can be supplied in any colour (additional cost may apply)

The sealing system is installed to the top of the box, mid rail, bottom rail, parting bead and the staff beads. See Diagram A overleaf for further details.

The sashes are weighed and the weights adjusted to ensure the window is correctly balanced and operates smoothly.

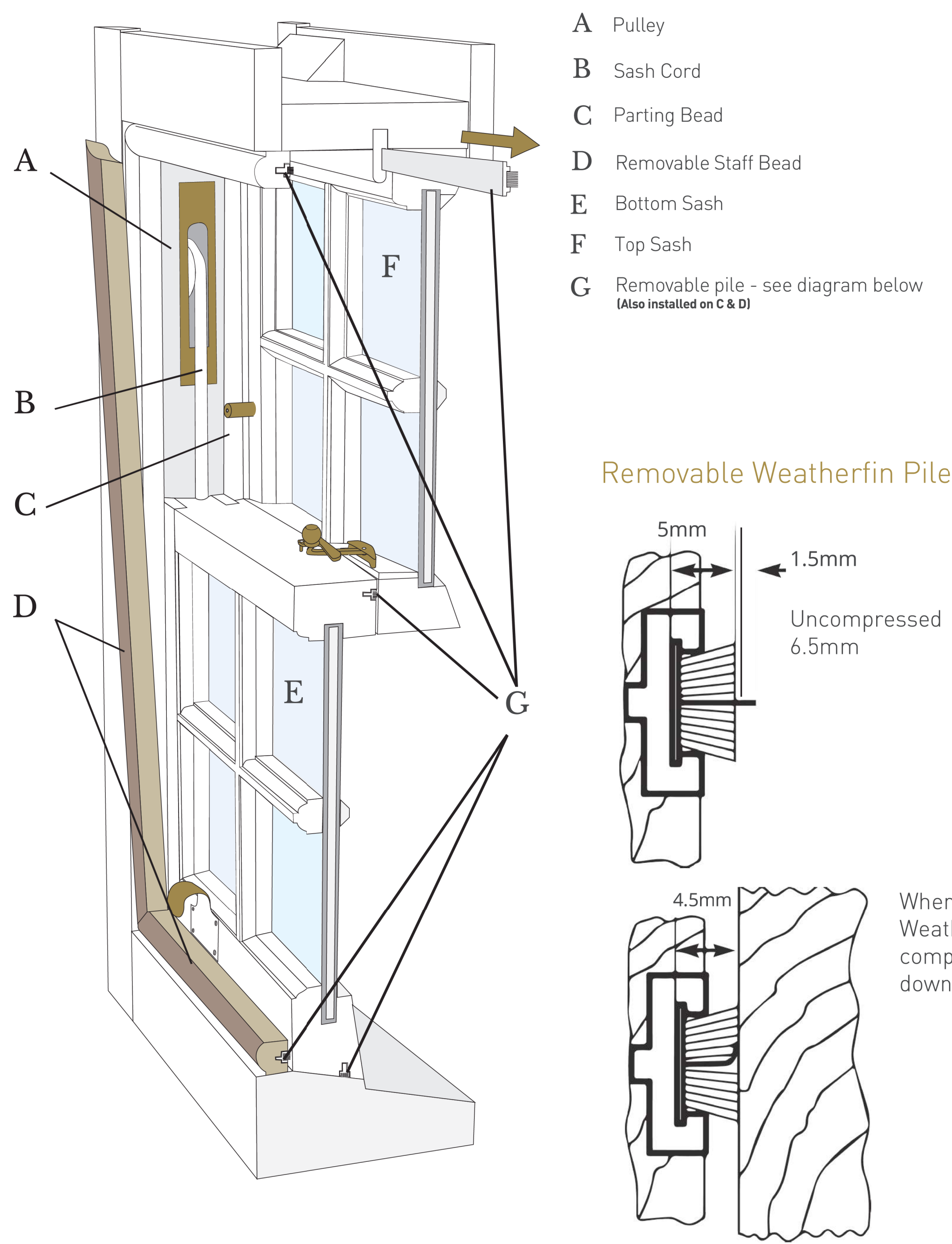
All exposed and bare wood is painted with one coat of white acrylic primer to BS5082. Final decorative painting is by others.

The sashes are reinstalled and staff beads fitted (if the easy release Sash Removal System is being installed removable staff beads are fitted and corked). Windows are then be checked for smooth operation.

Independent Testing

- VPSS achieved the highest requirement of BS6375-1 2009, Class 3 (Tested to 600 Pa)
- VPSS provides up to a 30% improvement in a Windows Energy Rating (WER)
- Air change rates reduced to 0.4 air changes per hour
- Noise reduction levels of up to 6-10 dB(A) range
- Has been independently tested and proven to fall within the 6 to 10dB noise reduction range

Diagram A: Ventrolla Renovated Window



Phase 1 - Window Renovation

Ventrolla have developed a unique Wood Repair System (VR90) that has been designed to extend the life of wooden windows and doors.

VR90 wood repair is a two part epoxy resin designed to impart the original strength to tenon joints and to fill cavities in sills, which it achieves through bonding with the original timber.

- The system’s core benefits are:
- It retains the majority of the original timber
 - Provides long lasting repairs
 - Fast acting so minimises standing time
 - Reduces Carbon Footprint of repair
 - Enables existing profile to be matched

In the event of excessive deterioration or if beyond economical repair, we replace the timbers, as required.

Application

All windows are inspected and surveyed prior to quotation and commencing work. At installation, sashes are removed and the condition of the timber, glass and pulleys are fully assessed.

- Decaying wood is removed back to the sound timber
- VR90 WS stabiliser is applied to provide anchorage
- VR90 filler is applied to fill gaps / joints and moulded to match the window profile
- All sash cords are replaced and the pulleys serviced ensuring smooth operation

NB: In the case of larger repairs or where economics dictate, we splice in new timber, or, in the case of a rotten sill, we can replace it completely.