

# Ventrolla

By Design

SASH WINDOW SPECIALISTS

Sash Window Renovation

Over 40  
years of British  
Craftsmanship





# Repair & Restoration

## Local Friendly Craftsmen

Original timber sash and casement windows embody the charm and heritage of any period property, that's why we are passionate about preserving that unique character wherever possible.

Following a free, no obligation survey of your windows, our expert craftsmen will return your sashes to their original glory draught, rattle and rot free, operating smoothly and ready to last another 100 years.

Whichever glazing options you decide are right for you and your home, our specialised renovation service includes a full overhaul of your windows, including:

- Sanding down & replacing any rotten timbers, taking your windows back to sound & healthy wood
- Replacing your pulleys & chords
- Re-weighting your sashes and installing the correct weights within your sash box, so your windows operate smoothly
- Where any sashes are stuck and painted shut, we will release them
- Installing new hardware
- In addition to the above, we also install our unique draught proofing system, the Ventrolla Perimeter Sealing System, in and around the moving sashes. This system closes the gaps that let heat escape and draughts in, making for a warmer home

Our projects range from small domestic homes to large commercial projects. However diverse the scale of our activities may be, Ventrolla's principles have never changed - restoring the original beauty of your sash windows, whilst improving their energy performance.



# Draught Proofing

## Effective & Discrete Draught Proofing for your Home



“ Keeping you cosy all year round ”

Draughts are one of the most common issues with period timber sash windows. The sashes have a 3mm gap around the edges to allow them to open and close without sticking. It is this gap that means wind, dust and sometimes water leak into your home, as well as losing heat.

To combat these problems without resorting to sealing your windows shut, Ventrolla installs our unique Perimeter Sealing System. This draught proofing system is a brush pile installed in and around the moving sashes, therefore sealing these gaps whilst still allowing the sashes to move past each other smoothly so as not to hinder their operation.

Whether you opt for renovation of your existing windows or complete new sashes or windows, we will install our draught proofing system to ensure your windows are draught free and comfortable.

# Our Unique Sash Removal System

## Making Future Maintenance Stress Free

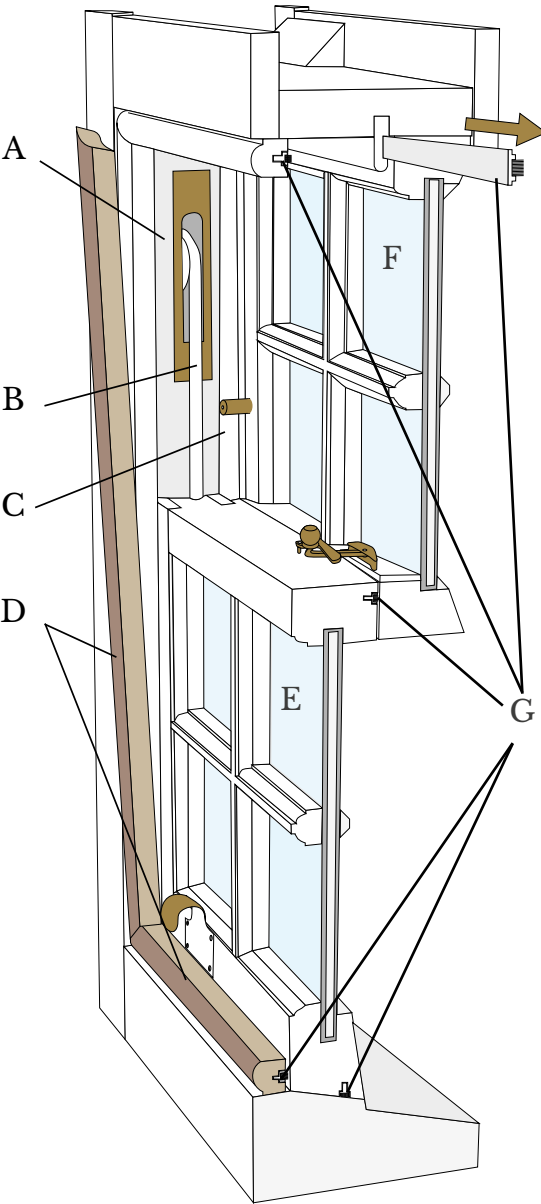
For over 40 years we have been installing our unique Sash Removal System thus avoiding problems such as losing the sash cord in the sash box frame and eliminating the need for scaffolding when painting sash windows.

The system consists of a 'brake' that forms the end of the sash cord and sits within housing in the side of your sashes. This will ensure that your sash cord will not break free from your sashes and end up lost in the sash box.

Additionally, in order for you to carry out future maintenance on your sash windows, such as painting and deep cleaning, the Sash Removal System enables you to access your sashes and dismantle your window internally without scaffolding.

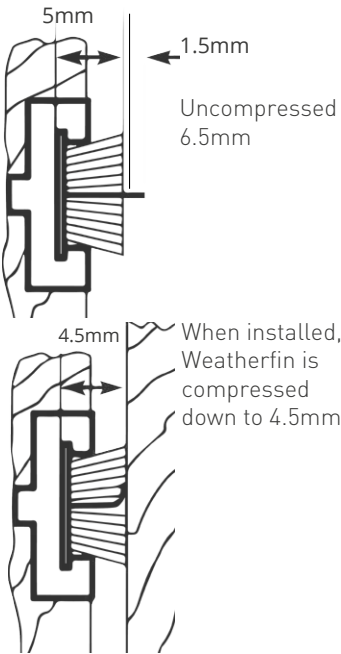


# A Ventrolla Renovated Window



- A Pulley
- B Sash Cord
- C Parting Bead
- D Removable Staff Bead
- E Bottom Sash
- F Top Sash
- G Removable pile - see diagram below (Also installed on C & D)

## Removable Weatherfin Pile



Sash Removal System (SRS) is discreetly mounted in the side of the sash, allowing safe and easy removal of both the upper and lower sashes, to therefore give free access to the window box frame, and is not visible either internally or externally during the normal operation of the sash window.



Close up of the brake itself unengaged and free to move



Close up of brake in it's engaged state



# Glossary Of Terms

## Overview

All Ventrolla renovation work comes with a 5 year no quibble guarantee and is undertaken by experienced Installers that have been fully trained in the methodology of our unique Ventrolla system.

All of our Installers are directly employed and are CRB checked for your peace of mind.

Our approach ensures we maintain our high standards and that your beautiful historic window will be energy efficient without altering the appearance or historic value of your property.

## The Ventrolla Perimeter Sealing System (VPSS)

Sash windows have a 3mm air gap around the sashes to allow the sashes to slide past each other and operate smoothly. It is this air gap that causes the inherent problems associated with sash windows, such as draughts, rattles, dust ingress and reduced energy efficiency. By installing the Ventrolla Perimeter Sealing System (VPSS) we can eliminate these problems.

For further peace of mind, VPSS has achieved British Standard (BS 6375:1-2009) and has therefore been tested to withstand winds of over 71mph - so you can be safe in the knowledge that your historic windows will perform just like a modern window.

Our high performance draught proofing Weatherfin Pile becomes an integral part of your window, installed in our unique parting bead between the sashes, in the new staff beads around the window and installed directly into the mid and bottom rails.



## Full Treatment (Vertical Sliding Sash, Yorkshire Sliders and Venetian Windows)

When we renovate your windows, firstly we remove the sashes from the frame allowing us access to the sash box. Then we scrape any loose paint that has accumulated over the years and may be restricting the movement of the sashes. Sash cords are replaced, pulleys serviced and sashes correctly balanced to ensure smooth operation of the windows.

To accommodate our Ventrolla Perimeter Sealing System (VPSS), grooves are routed into the mid rail and bottom rail of the bottom sash, which makes the seal an integral part of the window. Finally new parting beads and staff beads are installed to complete the seal.

## Half Treatment (Vertical Sliding Sash, Yorkshire Sliders and Venetian Windows)

Similar to our “Full Treatment” above with the exception that only the bottom sash is operable with the top sash sealed shut. The bottom sash will still have our Sash Removal System (SRS) which will help with future maintenance along with our unique Ventrolla Perimeter Sealing System (VPSS), whilst the top sash will be sealed shut using Bartoline Frame Sealant.

## Ease & Adjust Only

Similar to our ‘Full Treatment’ described above but without the installation of our unique Ventrolla Perimeter Sealing System (VPSS) or Sash Removal System (SRS). We remove any movable sashes from the frame allowing us access to the sash box.

We then scrape off any loose paint that has accumulated over the years and may be restricting movement of the sashes. Sash cords are then replaced and pulleys serviced to ensure smooth running, finally sashes are correctly balanced to ensure smooth operation of the windows.

## Replacement Sills

To replace the rotten sill we also replace the lower sections of the sash box lining and outer cheek to remove any underlying rot and ensure the repair will last as long as the original. When the new sill is fully installed we then prime the exposed timbers ready for final painting by others. Our preferred timber for replacement sills is Sapele a durable tropical hardwood.

## Conservation Joint

As with the tenon joint repair, the original joint has opened up but has not yet started to rot and remains dry. We apply our VR90 resin to help bond the joint together and then screw through the sash stile into the sash rail, thus restoring the joints structural integrity. Any exposed timber is primed ready for final painting.

## VR90 Repairs

Where rot threatens we will use our patented VR90 timber repair system to preserve as much of the original window as possible. Our unique epoxy resin VR90 is applied and moulded then allowed to set (usually within 15 minutes).

We then plane and hand finish leaving the repair effectively invisible to the eye. The formulation of the resin is such that the repaired joint or filled cavity will be stronger than the original timbers.

## Tenon Repair

The original tenon joint will most probably have lasted several generations but in recent times will have opened up allowing water ingress and rot to take hold. Firstly we remove any rot from the joint exposing sound timber, then apply our VR90 resin to fill the cavity and bond the joint together. Then we plane and sand the joint and apply a layer of primer to cover any exposed timber or resin. The finished repair will be as structurally strong as the original joint.

## Casement Windows (inc. hopper, pivot, doors)

The windows are overhauled, any paint build up that restricts the operation of the casement scraped away, the hinges are serviced and adjusted to ensure correct operation.

To accommodate our Ventrolla Perimeter Sealing System (VPSS), grooves are routed in to the inner edges of the casement or door making the seal an integral part of the structure.

## Glazing

Where cracked or missing glass is identified we will carefully remove the original putty and broken glass exposing the timber rebate. The glazing aperture is then prepared ready to accept the new glass and is re-glazed using either Hodgson’s butyl 66 compound or multipurpose linseed putty and a final front edge putty line formed. Various types and styles of glass are available including toughened, patterned, etched and security glass, please ask your surveyor for more information.

If you have any questions relating to the Ventrolla service, your survey or quotation we are happy to help! 0800 0277 454, or email [info@ventrolla.co.uk](mailto:info@ventrolla.co.uk)

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By Design  
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For information on our services,  
offices, case studies and news, visit  
our website at :  
[www.ventrolla.co.uk](http://www.ventrolla.co.uk)

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Or call us on Freephone:  
**0800 0277 454**

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Ventrolla Head Office  
Crimple Court  
Hornbeam Business Park  
Harrogate  
North Yorkshire  
HG2 8PB