

**ELITE**  
Quality Window & Door Hardware  
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# Friction Stay Maintenance & Operation

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Getting the most out of your DGS  
Friction Stays.

For our full range of products visit  
[www.dgsgroup.co.uk](http://www.dgsgroup.co.uk)

**National Company. Local Service.**





# Fitting & Maintenance

# Fitting Instructions

## Introduction

Size and weight limitations for the product must be strictly observed - if in doubt please consult your local DGS branch for advice.

It is the responsibility of the window manufacturer to ensure that the finished window meets the required performance and safety specifications.

1. The friction hinge must be correctly positioned usually in a purpose designed groove in the extrusion, typically 18mm nominal wide track and 16mm nominal wide vent arm. The extrusion may or may not be reinforced. If used reinforcements may be either steel or aluminium.

2. All fixing holes must be used to secure the friction stay.

3. The hinge must be fitted so that, in the closed position, the centre of the vent arm lies parallel to the centre of the track.

4. The hinge should be fitted so that the end cap butts into the corner of the frame; this is particularly important for egress and high security products. The corner of the vent or weld sprue must not foul the end cap of the hinge.

5. The friction device should be adjusted to give the required degree of resistance.

## Fixing

DGS strongly recommend that screws made of a high grade stainless are used. We recommend Austenitic A2 screws. For exceptionally corrosive environments we can offer even higher corrosion protection. Please contact your local DGS branch.

Suitable fastenings must be used to secure the friction stay. That is, the fixing screws must be made of a suitable material and be of the correct form and size.

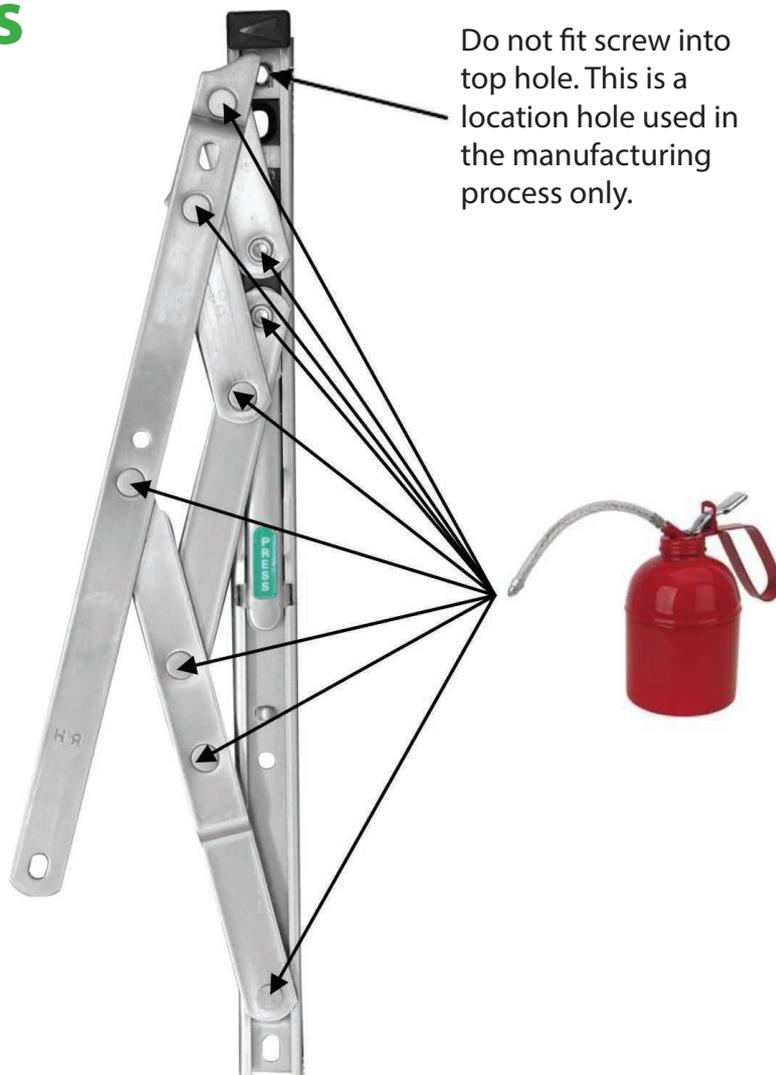
## Maintenance

### It is recommended that:

DGS Friction Stays are manufactured to the highest quality standards but care must be taken to ensure optimum performance. At the time of installation, any dust or debris must be removed from the track, sliding shoe and end point location area.

Lubricate all pivot points with light machine oil (e.g. "3-in-1" oil).

The end user must be made aware of the need to clean and re-lubricate the stay at least every two years. The end user should be aware that the tightness of all fixing screws and the friction adjusting screw should be checked periodically.





End cap must butt into the corner of the frame; this is particularly important for egress and high security products. The corner of the vent or weld sprue must not foul the end cap of the hinge.

The friction device should be adjusted to give the required degree of resistance.



Vent arm must lie parallel to the centre of the track in the 'park' position.



**CE Marked screws and fixings**  
Your local DGS Branch team can advise on selection of suitable friction stay screws.

For further technical information, please contact your local DGS Branch.



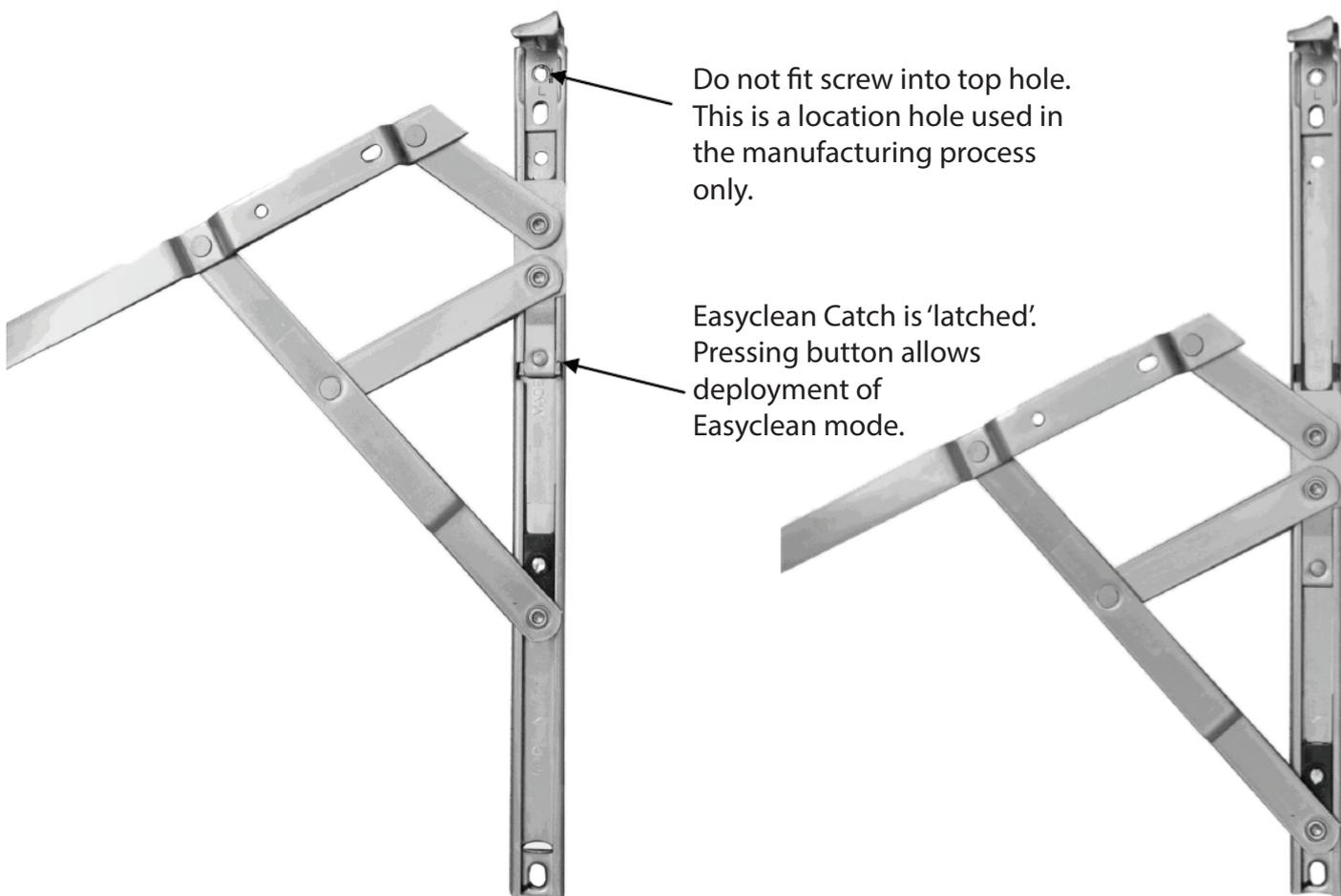
# Operating Instructions

\*For restricted/easy clean function

00005

# Easyclean Egress

Operating instructions for easyclean friction stays.



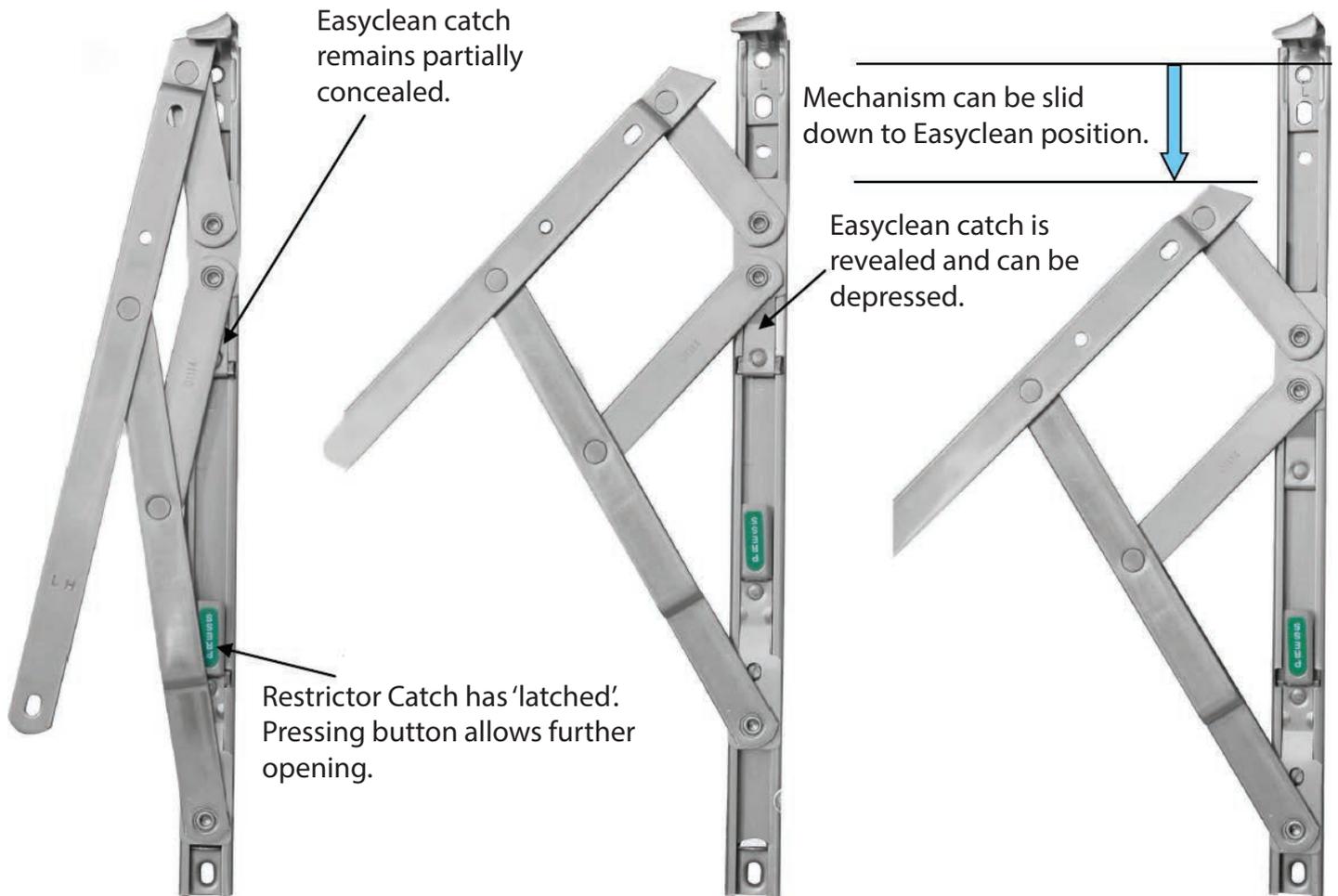
Easyclean stay opened to normal position. The Easyclean latch is engaged.

Easyclean stay with Easyclean mode deployed. The Easyclean latch is disengaged to allow this mode. The catch will re-engage automatically when the mechanism is slid back to the standard position.

Easyclean stays must be used in pairs.

## Instructions

1. Open the window fully.
2. The fully open window will now expose a button on each stay. Pressing these buttons will allow the window to slide sideways for easy cleaning. Be sure to slide the window sideways gently and as evenly as possible to avoid any damage to the stays. When cleaning has been completed simply slide the window carefully back to its normal position; the catches will then automatically re-engage.



Tristay opened to 'restricted' position.

Tristay opened beyond restricted position to reveal Easyclean release catch.

Easyclean release catch is depressed and Easyclean mode can be deployed.

To strictly conform to the requirements of BS 6375-2:2009, restricted stays should be used in pairs. In practice, many users actually use one restricted stay and one matching non-restricted stay because they consider this has the advantage of simpler operation. These instructions, however, are written assuming the Tristay restricted stays are fitted in pairs, that is, in full compliance with the standard BS 6375-2:2009.

### Instructions

1. Open the window to the restricted position.
2. Keeping a slight opening pressure on the window, depress the button marked 'Press' on the lower stay. Keeping the same slight opening pressure on the window, depress the 'Press' button on the upper stay. This will allow the window to fully open.
3. (If outward pressure is not maintained on the window the 'Press' button will simply relocate. This is a safety feature).
4. The fully open window will now expose a second button on each stay. Pressing these buttons will allow the window to slide sideways for easy cleaning. Be sure to slide the window sideways gently and as evenly as possible to avoid any damage to the stays. When cleaning has been completed simply slide the window carefully back to its normal position; the catches will then automatically re-engage.
5. Closing the window will automatically relocate the restrictor devices.

# Restrictor Stay

Operating instructions for restrictor stays.



Restrictor Catch has 'latched'. Pressing button allows further opening beyond restricted position.

Restrictor stay opened to 'restricted' position.



Restrictor stay opened beyond restricted position.

To strictly conform to the requirements of BS 6375-2:2009, restricted stays should be used in pairs.

In practice, many users actually use one restricted stay and one matching non-restricted stay because they consider this has the advantage of simpler operation. These instructions, however, are written assuming the restricted stays are fitted in pairs, that is, in full compliance with the standard BS 6375-2:2009.

## Instructions.

1. Open the window to the restricted position.
2. Keeping a slight opening pressure on the window, depress the button marked 'Press' on the lower stay. Keeping the same slight opening pressure on the window, depress the 'Press' button on the upper stay. This will allow the window to fully open.
3. (If outward pressure is not maintained on the window the 'Press' button will simply relocate. This is a safety feature).
4. Closing the window will automatically relocate the restrictor devices.



# Recommended Screws

## Recommended Screw Type

Screws with a shallow head should be used when fitting friction stays. This will allow for more clearance when opening and closing windows.

## Guaranteed

The market leading brand, proven by the industry's leading companies to offer superior performance and the best value for money window screw range as well as a cost effective guarantee of corrosion resistance.

**Safe** - Quality assurance you can trust. Strong drill points, quick insertion, high pull-out values and long lasting corrosion resistance. Complies with British and European standards for quality with on-going performance testing within an industry leading R&D laboratory.

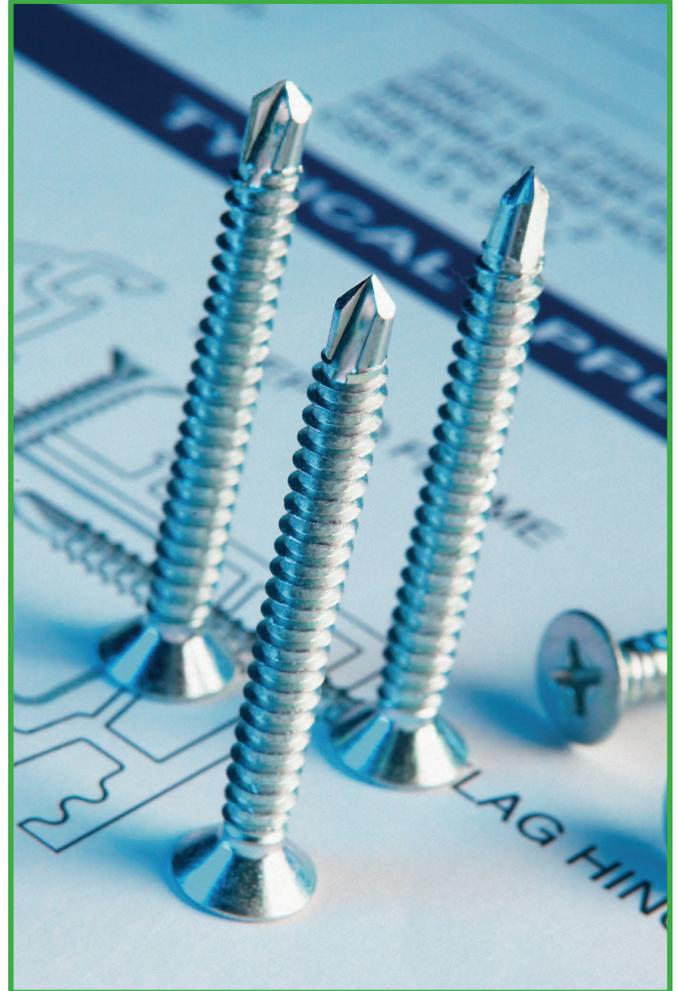
**Experienced** - Technical support, and knowledgeable application engineers will advise on correct fastener solutions with approved fastener guides for all the leading system companies. (Ask about our profile related fixing manuals).

**Fast, Reliable Supply** - The comprehensive StarPVCU™ range includes superior plated Carbon Steel and complete Stainless Steel solution for all window and door applications, available for fast delivery from any of our 11 strategically placed branches.

**One Stop Solution** - A full range of installation fixings and fabrication consumables are available, including drill bits, screwdriver bits, superglues and much more.

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# Rapier® StarPVCU

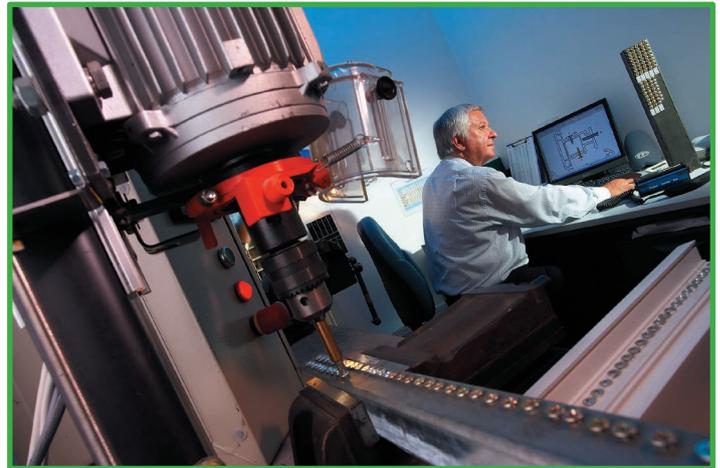


# DGS Group Plc.

Providing high quality screws for the door and window industry throughout the UK and Ireland across our 11 branches.

## Tested for Safety Tested for Quality -

Screws are tested for plating depth and corrosion resistance using internationally accepted test equipment. Salt spray testing is in accordance with BS EN1670:2007 service classes according to BS EN ISO 9227 and to UKAS requirements. Carbon steel screws are routinely tested to 300 hours and our enhanced martensitic stainless steel carries certification beyond 3000 hours salt spray test.



## Screws Features and Benefits

**Laser sorting removes swarf** = No clogged auto-feed machines.

**Ductility tested to acknowledged standards** = Screws will not break.

**Plating is checked for depth and consistency** = Plating is quality assured.

**Recess measured and tested for wobble** = Easier and safer insertion.

**Salt spray tested in accordance with ISO9227:2012** = Corrosion resistance exceeds UK and international standards.

**Torque tested** = Screws will not shear.

**Tested to detect Hydrogen embrittlement** = Screws will not suffer delayed failure.

**Tested for speed of insertion** = Faster production.

**Tested for pull out** = More secure fastening.



Friction Stay to PVCU	
Product Code	Box Qty
SFG4.3X16	1000
SFG4.3X20	1000
SFG4.3X25	1000

Available in Zinc and Stainless Steel



Friction Stay to Reinforced PVCU	
Product Code	Box Qty
SSR3.9X16	1000
SSR3.9X19	1000
SSR3.9X25	1000

Available in Zinc and Stainless Steel



Friction Stay to PVCU (Repairs)	
Product Code	Box Qty
SFG4.8X20	1000
SFG4.8X25	1000

Available in Zinc and Stainless Steel



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