



Defender Window Hinge Range

High-performance friction hinges offering enhanced resistance against corrosion.

Defender Standard

A standard duty friction stay.

Features

- Improved weather sealing and draught proofing performance from extended enclosed end cap and asymmetrical vent arm form to BS 6375-1
- Lipped slider for enhanced smooth operation
- Available in ferritic 430 as standard or austenitic 304 stainless steel for enhanced corrosion resistance
- Easy friction adjustment without metal to metal contact
- Unique robust cam friction device eliminates the risk of screw misuse
- Asymmetric location system for reliable and accurate closure
- Enclosed end cap to prevent ingress of debris and provide increased cavity tolerance
- Slot-hole-slot format allowing for easier vent adjustment
- Highline variant available for deeper profiles with cavities between 16mm and 18mm

Specification

- Compliant with BS EN 13126-6 Hardware for windows and door height windows. Requirements and test methods
- Tested to BS EN 1670 - Ferritic Grade 3 corrosion resistance 96 hours, Austenitic Grade 4 corrosion resistance 240 hours
- Endurance tested to 30,000 cycles
- 10 or 12 year mechanical guarantee*



Defender Standard Top Hung

| Defender Standard Top Hung | Hinge Size (mm) | Stack Height (mm) | Max Vent Weight (kg) | Min Vent Height (mm) | Max Vent Height (mm) | Opening Angle (+/-2.5°) |
|----------------------------|-----------------|-------------------|----------------------|----------------------|----------------------|-------------------------|
| EDT6-EXP | 159 | 13 | 10 | 150 | 300 | 50° |
| ED8-EXP | 209 | 13 | 12 | 200 | 350 | 65° |
| EDT10-EXP | 259 | 13 | 16 | 275 | 400 | 80° |
| EDT12-EXP | 310 | 13 | 20 | 350 | 550 | 80° |
| EDT16-EXP | 412 | 13 | 21 | 500 | 780 | 80° |
| EDT20-EXP | 513 | 13 | 26 | 700 | 1100 | 50° |
| EDT24-EXP | 615 | 13 | 40 | 850 | 1300 | 37.5° |

Defender Standard Side Hung

| Defender Standard Side Hung | Hinge Size (mm) | Stack Height (mm) | Max Vent Weight (kg) | Min Vent Height (mm) | Max Vent Height (mm) | Opening Angle (+/-2.5°) |
|-----------------------------|-----------------|-------------------|----------------------|----------------------|----------------------|-------------------------|
| ED8-EXP | 209 | 13 | 18 | 200 | 400 | 65° |
| EDS12-EXP | 310 | 13 | 22 | 300 | 600 | 60° |
| EDS16-EXP | 412 | 13 | 24 | 400 | 700 | 60° |

- Also available in 16" & 17" stack height
- Add H6 for 16" (For example ED8H6-EXP)
- Add H7 for 17" (For example ED8H7-EXP)
- For austenitic variants add 'A' to end of part code (not including 6")
- For slimline variants add 'S' to end of part code (not including 6", 13mm stack height only)
- For timber variants add '-TV' to end of part code (13mm stack height only)

*10 Year Mechanical Guarantee for Standard Ferritic and 12 Year Mechanical Guarantee for Austenitic Stainless Steel

Note: As with all types of friction hinges, friction cannot be provided until the slider moves, therefore when opening top hung. Vents to angles of 10° or less a separate device may be required to prevent the window from closing.

Defender Plus

The Defender Plus offers an increased carrying capacity to suit larger vent openings.

Features

- Ability to carry a load of up to 50kg top-hung and 40kg side-hung
- Asymmetric location system for reliable and accurate closure
- Slot-hole-slot vent fixing configuration for ease of adjustment and guaranteed fixing into reinforcement on PVC window frames
- Improved weather sealing and draught proofing performance from asymmetrical vent arm form
- Enclosed end cap to prevent ingress of debris and provide increased cavity tolerance
- Adjustable friction cam in slider
- Available in a highline variant for deeper profiles with cavities between 16mm and 18mm
- Top hung variant available in ferritic and austenitic stainless steel
- Side hung variant available in stainless steel

Specification

- Compliant with BS EN 13126-6 Hardware for windows and door height windows. Requirements and test methods
- Tested to BS EN 1670 - Ferritic Grade 3 corrosion resistance 96 hours, Austenitic Grade 4 corrosion resistance 240 hours
- Endurance tested to 30,000 cycles
- 10 or 12 year mechanical guarantee*



Defender Plus Top Hung

| Defender Plus Top Hung | Hinge Size (mm) | Stack Height (mm) | Max Vent Weight (kg) | Min Vent Height (mm) | Max Vent Height (mm) | Opening Angle (+/- 2.5°) |
|------------------------|-----------------|-------------------|----------------------|----------------------|----------------------|--------------------------|
| EDTH24-EXP | 615 | 13 | 50 | 850 | 1500 | 32° |

Defender Plus Side Hung

| Defender Plus Side Hung | Hinge Size (mm) | Stack Height (mm) | Max Vent Weight (kg) | Min Vent Height (mm) | Max Vent Height (mm) | Opening Angle (+/- 2.5°) |
|-------------------------|-----------------|-------------------|----------------------|----------------------|----------------------|--------------------------|
| EDSH16A-EXP | 412 | 13.5 | 40 | 400 | 1000 | 60° |
| EDSH16H6A-EXP | 412 | 16.5 | 40 | 400 | 1000 | 60° |
| EDSH16H7A-EXP | 412 | 17.5 | 40 | 400 | 1000 | 60° |

- Also available in 16" & 17" stack height
- Add H6 for 16" (For example EDTH24H6A-EXP)
- Add H7 for 17" (For example EDTH24H7A-EXP)
- For austenitic variants add 'A' to end of part code

*10 Year Mechanical Guarantee for Standard Ferritic and 12 Year Mechanical Guarantee for Austenitic Stainless Steel

Note: As with all types of friction hinges, friction cannot be provided until the slider moves, therefore when opening top hung vents to angles of 10° or less a separate device may be required to prevent the window from closing.

Defender Egress Easy Clean

The ideal solution for emergency egress with the easy clean function helping to provide ease of use to the occupant.

Features

- 16" hinge opens to a full 90° for emergency exit
- Self-lubricating PTFE based coating on the end cap to provide a smooth closing
- Composite slider with stainless steel release lever mechanism allows cleaning access from the inside of the building
- Automatically resets to the fire escape mode when the window is closed
- Die cast support plate in the bottom slider ensures consistent performance
- Available in 12" or 16" for side hung windows
- Drilling jigs for all sizes are available to order
- Screw fixing in the centre of the track to reduce vent drop
- Available in ferritic 430 as standard or austenitic 304 stainless steel for enhanced corrosion resistance

Specification

- Compliant with BS EN 13126-6 Hardware for windows and door height windows. Requirements and test methods
- Tested to BS EN 1670 - Ferritic Grade 3 corrosion resistance 96 hours, Austenitic Grade 4 corrosion resistance 240 hours
- Compliant with BS 5588-1 - Fire precautions in the design, construction and use of buildings
- Complaint with BS8213-1 Design for safety in use and during cleaning of windows
- Endurance tested to 30,000 cycles
- 10 or 12 year mechanical guarantee*



Defender Egress Easy Clean

| Defender Egress Easy Clean | Hinge Size (mm) | Stack Height (mm) | Max Vent Weight (kg) | Min Vent Height (mm) | Max Vent Height (mm) | Opening Angle (+/- 2.5°) |
|----------------------------|-----------------|-------------------|----------------------|----------------------|----------------------|--------------------------|
| EDSE12-EXP | 311 | 13 | 22 | 300 | 600 | 80° |
| EDSE16-EXP | 413 | 13 | 24 | 400 | 700 | 90° |

- Also available in 16" & 17" stack height
- Add H6 for 16" (For example EDSE12H6-EXP)
- Add H7 for 17" (For example EDSE12H7-EXP)
- For austenitic variants add 'A' to end of part code

*10 Year Mechanical Guarantee for Standard Ferritic and 12 Year Mechanical Guarantee for Austenitic Stainless Steel

Note: As with all types of friction hinges, friction cannot be provided until the slider moves, therefore when opening top hung vents to angles of 10° or less a separate device may be required to prevent the window from closing.

Defender Restricted

A friction hinge designed specifically for occupant safety.

Features

- Improved weather sealing and draught proofing performance from extended enclosed end cap and asymmetrical vent arm form when tested to BS 6375-1
- Unique robust cam friction device eliminates any risk of friction screw misuse
- Available in ferritic 430 as standard or austenitic 304 stainless steel for enhanced corrosion resistance
- Built-in quick release lever allows the window to be fully opened for easy cleaning and total ventilation
- Asymmetric location system for reliable and accurate closure
- Restrictor automatically relocates and resets when the window is closed
- Slot-hole-slot vent fixing configuration for ease of adjustment and guaranteed fixing into reinforcement on PVC-u window frames
- Available as highline variants for profiles with cavities between 16mm and 18mm

Specification

- Compliant with BS EN 13126-6 Hardware for windows and door height windows. Requirements and test methods
- Tested to BS EN 1670 - Ferritic Grade 3 corrosion resistance 96 hours, Austenitic Grade 4 corrosion resistance 240 hours
- Compliant with BS EN 13126-5 – Hardware for windows and door height windows and requirements and test methods
- Endurance tested to 30,000 cycles
- 10 or 12 year mechanical guarantee*



Defender Restricted Top Hung

| Defender Restricted Top Hung | Hinge Size (mm) | Stack Height (mm) | Max Vent Weight (kg) | Min Vent Height (mm) | Max Vent Height (mm) | Opening Angle (+/-2.5°) |
|------------------------------|-----------------|-------------------|----------------------|----------------------|----------------------|-------------------------|
| EDTR12-EXP | 310 | 13 | 20 | 350 | 550 | 65° |
| EDTR16-EXP | 412 | 13 | 21 | 500 | 780 | 59° |
| EDTR20-EXP | 513 | 13 | 26 | 700 | 1100 | 50° |
| EDTR24-EXP | 615 | 13 | 40 | 850 | 1300 | 37.5° |
| EDTR24H6-EXP | 615 | 16 | 40 | 850 | 1300 | 37.5° |
| EDTR24H7-EXP | 615 | 17 | 40 | 850 | 1300 | 37.5° |

Defender Restricted Side Hung

| Defender Restricted Side Hung | Hinge Size (mm) | Stack Height (mm) | Max Vent Weight (kg) | Min Vent Height (mm) | Max Vent Height (mm) | Opening Angle (+/- 2.5°) |
|-------------------------------|-----------------|-------------------|----------------------|----------------------|----------------------|--------------------------|
| EDSR12-EXP | 310 | 13 | 22 | 300 | 600 | 58° |
| EDSR16-EXP | 412 | 13 | 24 | 400 | 700 | 58° |

- Add H6 for 16" (For example EDTR24H6-EXP)
- Add H7 for 17" (For example EDTR24H7-EXP)
- For austenitic variants add 'A' to end of part code
- For timber variants add 'TV' to end of part code (13mm stack height only)
- Side hung restricted hinges are sold with an opposite hand standard non-restricted hinge; as only one side hung restricted hinge is required and must be fitted as a bottom hinge - PL = Left Hand hinge is restricted, -PR = Right Hand hinge is restricted
- Top hung restricted hinges are sold and must be fitted in pairs

*10 Year Mechanical Guarantee for Standard Ferritic and 12 Year Mechanical Guarantee for Austenitic Stainless Steel

Note: As with all types of friction hinges, friction cannot be provided until the slider moves, therefore when opening top hung. Vents to angles of 10° or less a separate device may be required to prevent the window from closing.

Restricted gap is controlled by:

- System profile depth
- Vent size

Accreditations and Affiliations



Council for Aluminium in Buildings

Securistyle are members of the CAB, who encourages the use of aluminium products in construction.



Council on Tall Buildings & Urban Habitat

The world's leading resource for professionals focused on the design and construction of tall buildings.



Made in Britain

The Made in Britain initiative champions British manufacturing by encouraging the supply chain of UK-made goods.



ISO 14001:2015

British Standards Institute certification for the design, development, supply and manufacture of architecture for applications to windows.



ISO 9001

British Standards Institute certification for a quality management system.

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