



DEFENDER RESTRICTED

TYPE

STANDARD DUTY FRICTION HINGE

BENEFIT

A friction hinge designed specifically for resident safety

- Built-in quick release lever allows the window to be fully opened for easy cleaning, total ventilation
- Extended enclosed end cap to enhance weather sealing
- Tested to BS63575-2 to load bearing capacity of safety devices
- Handed 'profiled' vent arm further enhancing weather seal
- Restrictor automatically relocates and resets when the window is closed
- Unique patented 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
- 10 or 12 year guarantee dependant on material selection (details available upon request)

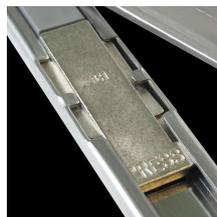


10
YEAR GUARANTEE
12

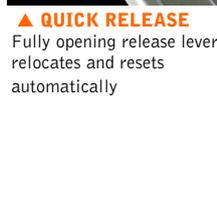
austenitic
304
430
ferritic

DEFENDER HINGE

SD STD DUTY



▼ **SMOOTH OPERATION**
Thermoplastic components for long life



▲ **QUICK RELEASE**
Fully opening release lever relocates and resets automatically



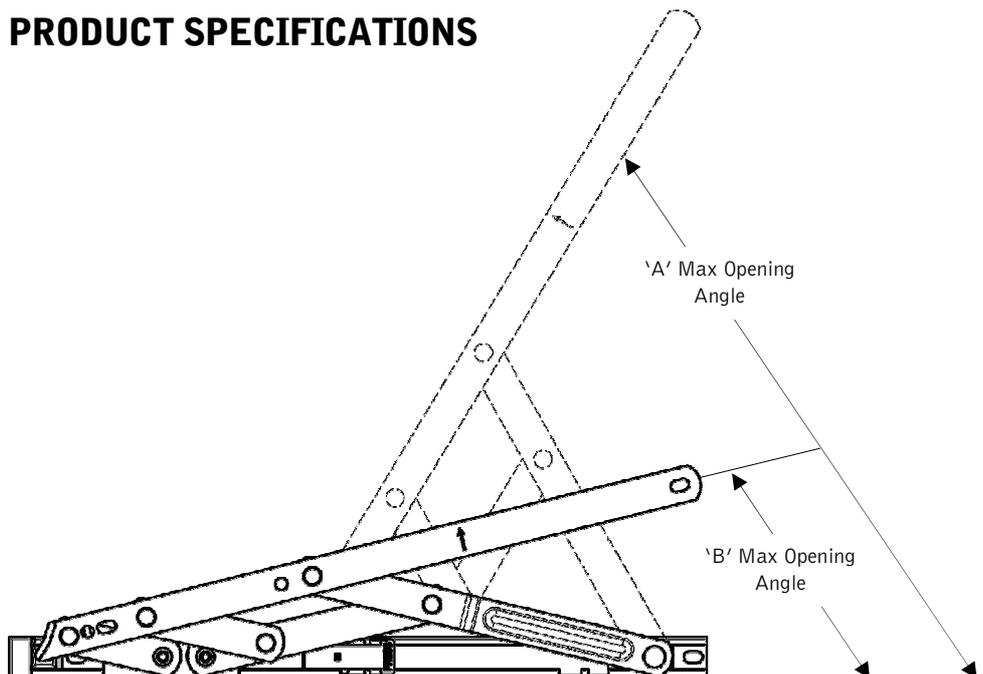
*Standard ferritic (was 430) to BS EN 10088-2 Grade 1.4016 or Austenitic (was 304) stainless steel to BS EN 10088-2 Grade 1.4301.



Manufactured in the UK



PRODUCT SPECIFICATIONS



DEFENDER HINGE



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Hinge Size (Top Hung) (in/mm)	Max Vent Weight (kg/lb)	Min Vent Height (mm/in)	Max Vent Height (mm/in)	Max Opening Angle 'A' (+/- 2.5°)	Max Opening Angle 'B' (+/- 2.5°)
12/310	20/44	350/14	550/22	65°	14°
16/413	21/46	500/20	750/30	59°	10°
20/513	26/57	700/28	1100/43	50°	7°
24/615	40/88	850/33	1300/51	37.5°	6°
Hinge Size (Side Hung)		Min Vent Width	Max Vent Width		
12/310	22/48	300/12	600/24	58°	13°
16/413	24/53	400/16	700/28	58°	11°

PRODUCT SPECIFICATION

- Slot hole slot format will provide the ability to adjust the vent easily
- High carrying capacity on 20" and 24" top hung hinges
- Side hung restricted hinges are sold singularly; as only one side hung restricted hinge is required and must be fitted as the bottom hinge. Top hung restricted hinges are sold in pairs and must be fitted in pairs.
- Drilling jigs for all sizes are available to order

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

The restricted opening gap is controlled by;

- The restricted opening angle shown (angle 'B')
- Profile thickness
- Vent size
- Defender highline variants for deeper profiles with cavities between 16mm and 18mm

austenitic
304
430
ferritic



BSEN ISO9001
Cert No Q05105

Due to our policy of continual improvement we reserve the right to alter specifications without notice. It is the responsibility of the window manufacturer to ensure that the finished window meets the required performance and safety specification.

All transactions are subject to our standard conditions of supply, which are available on request

Ref: DRSD

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