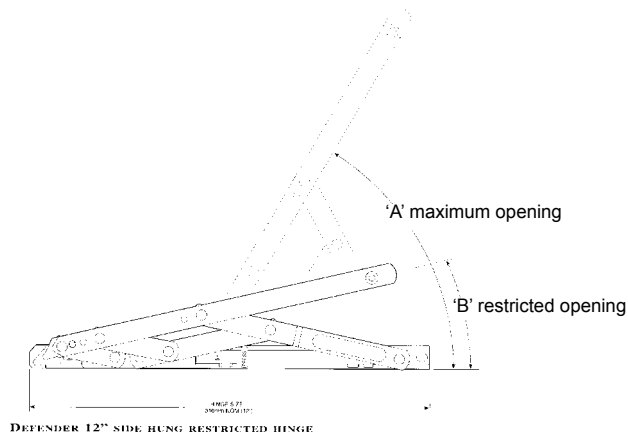


Technical Data

Application	Top & side hung, restricted
Stack Height (mm)	13, 16, 17
Size (inches)	Top hung = 12, 16, 20, 24, side hung = 12, 16
Max. Sash Weight (kgs)	Top hung = 35, side hung = 24
Material Specification	
Links & Track - Ferritic	Stainless steel to BS 10088/2 grade 1.4016
Rivets - Ferritic	Stainless steel to BS 10263/5 grade 1.4016
Links & Tracks - Austenitic	Stainless steel to BS 10088/2 grade 1.4301
Rivets - Austenitic	Stainless steel to BS 10263/5 grade 1.4567
End Caps & Points	Nylon 66
Friction Cam	Zinc alloy BS EN 1774:ZL0410, zinc & gold passivate finish
Restricted Lever	Zinc alloy BS EN 1774:ZL0410, bright copper nickel plate
Box Quantity	Top hung 12" = 50, top hung 16", 20", 24" = 25 side hung 12" = 50, side hung 16" = 25

Technical Drawing



Fixing Hole Details

Description	A (Degrees)	B (Degrees)
Top hung 12"	65°	15°
Top hung 16"	60°	10°
Top hung 20"	50°	8°
Top hung 24"	37.5°	7°
Side hung 12"	60°	13°
Side hung 16"	60°	12°

Defender Restricted Friction Stay

The Defender, with built-in restrictor, combines a child resistant lever to limit window opening for maximum safety and a quick release function to allow window to be fully opened for easy cleaning or emergency escape.

- Restricts window opening to a maximum of 100mm
- Quick release lever, for cleaning and ventilation, with automatic relocation
- Complies with child safety requirements of BS 6375 Part 2 (600 Newtons)
- Integral restrictor removes the need for additional devices
- Available in 13, 16 and 17mm stack height
- Suitable for top hung and side hung casement windows
- BBA approved product



Recommended Maximum Sash

Description	Size (")	Width (mm)	Height (mm)	Weight (kg)	Opening (°)
Top Hung	12	550	350	20	15°
Top Hung	16	780	500	21	10°
Top Hung	20	1100	700	24	8°
Top Hung	24	1300	850	35	7°
Side Hung	12	600	300	22	13°
Side Hung	16	700	400	24	12°

Part Numbers

Description	Size (")	13mm	16mm	17mm
		Stack Height	Stack Height	Stack Height
Top Hung	12	028160	028180*	028200
Top Hung	16	028162	028182*	028202
Top Hung	20	028164	028184	028204
Top Hung	24	028166	028186	028206
Side Hung Left Hand	12	028168	028188	028208
Side Hung Right Hand	12	028169	028189	028209
Side Hung Left Hand	16	028170	028190*	028210
Side Hung Right Hand	16	028171	028191*	028211

* Special order only

Guarantees & Accreditations

Mechanical Guarantee	10 years	BBA Approved	Yes
Labour Guarantee	2 years		



to place your order simply call our sales team direct on 01327 312 400