

# Security Manual BS7950

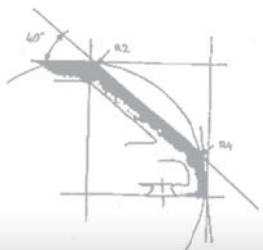
2500 chamfered  
06.08



# CONTENT

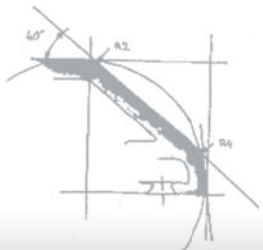
## 1. BS7950

- 1.1 General Statements
- 1.2 List of screw types
- 1.3 Profile guide
- 1.4 Hardware parts list
- 1.5 Fitment of hardware
- 1.6 General arrangements
- 1.7 Glazing



# BS7950

**GENERAL STATEMENT**  
LIST OF SCREW TYPES  
PROFILE GUIDE  
HARDWARE PARTS LIST  
FITMENT OF HARDWARE  
GENERAL ARRANGEMENTS  
GLAZING



This technical manual must be read in conjunction with the main fabrication manual for the Deceuninck 2500 chamfered casement window system.

**■ WELDING**

All window frames are to be fully welded.

To avoid weld contamination, heater plates and Teflon covers must be cleaned on a regular basis and replaced if any surface deterioration is found.

**NOTE. TO AVOID INJURY, HEAT RESISTANT GAUNTLETS SHOULD BE WORN WHEN CLEANING OR REPLACING HEATER ELEMENTS.**

Protective tape should be peeled back from the weld sufficiently to ensure tape is not trapped within the weld.

**■ FABRICATION**

To achieve the BS 7950 security test, all windows must be fully reinforced with the appropriate steel reinforcing.

The positioning of reinforcement retaining screws should be at no greater than 300mm centres and a maximum of 100mm in from each end.

Drainage should be carried out strictly in accordance with the Deceuninck 2500 chamfered Technical Manual.

**■ HARDWARE**

To achieve the BS 7950 security test all opening lights must be fitted with the recommended hardware listed and illustrated within this manual.

**■ HARDWARE RETAINMENT**

To achieve the BS 7950 security test all hardware must be retained with the recommended screws listed and illustrated within this manual.

**■ INSTALLATION**

Installation should be carried out strictly in accordance with the Deceuninck 2500 chamfered Technical Manual.

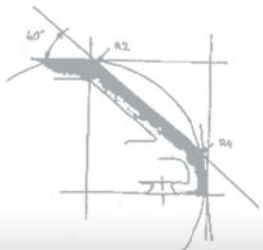
**■ MAXIMUM SIZES**

Please see below for details

Window Type	Length (up to a maximum of)	Height (up to a maximum of)	Area (up to a maximum of)	Distance between locking points	Friction Stays (up to and including)	Transom/Mullion length including frame (up to a maximum of)	Exposure category as given in Table 1 of BS 7412: 2002
Projecting top hung windows Reinforced	1200mm	1200mm	-	Hinge protector to hinge protector	HD 24"	-	Class E 2400
Projecting side hung windows Reinforced	700mm	1400mm	-	Hinge protector to hinge protector	16"	-	Class E 2400
Fixed windows Reinforced	2000mm	2000mm	4.00m <sup>2</sup>		-	-	Class E 2400
Multilight windows Reinforced	2400mm	2400mm	3.36m <sup>2</sup>		-	1400mm	Class 4A 1600

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It is important that good quality, high strength screws are used when fitting hardware, and that the screw manufacturers recommended pilot hole sizes are adhered to at all times. When fitting hardware, extreme care must be taken not to strip the thread as deterioration in performance will result. In order to achieve maximum fixing strength screws should not be removed and reinserted.

## Recommended Screw Supplier



Star Business Park, Buxton Road, Bosley  
Macclesfield, Cheshire. SK11 0PS  
Tel: 01260 223311 Fax: 01260 223312

- ISO 9001:2000 Quality Assured window screw range, offering full traceability.
- Screws that exceed both the current and proposed requirements of BS7412, the British Standard for PVCU windows.
- Full Technical support including detailed specifications and independent laboratory reports on the excellent corrosion resistance of the plating (conducted in accordance with BS7479:1991).
- Conforms to and exceeds GGF Guidelines 6.8 July 2004 and BPF Guidelines Ref:W363/1 February 2001.
- Manufactured from high grade carbon steel or 100% stainless steel to provide maximum strength.
- Local Authority PVCU Frame Advisory Group (LAPFAG) approved supplier.
- Next day nationwide delivery from the largest stock holding distributors of screws in the UK.
- Competitive prices and a high standard of service and reliability.

Please telephone **01260 223311** or fax **01260 223311** if you require an **RapierStar** product guide, samples or quotation for the specialist security screws designed for use into reinforced or non-reinforced applications



Product range: SFG  
Description: Shallow Pan Head, Phillips No.2 recess, with single deep thread and gimlet point.  
Application: Friction stay to unreinforced PVCu windows  
SFG 4.3 x 16 20 25  
Finish Z/S Quantity per box 1,000  
e.g. SFG 4.3 x 25 Y



Product range: SSR  
Description: Shallow Pan head, Phillips No.2 recess, with self tapping thread and self drilling point.  
Application: Friction stay to reinforced PVC-U windows  
SSR 3.9 x 16 19 25 29  
Finish Z/S Quantity per box 1,000  
e.g. SSR 3.9 x 25 Y

It is important that good quality, high strength screws are used when fitting hardware, and that the screw manufacturers recommended pilot hole sizes are adhered to at all times. When fitting hardware, extreme care must be taken not to strip the thread as deterioration in performance will result. In order to achieve maximum fixing strength screws should not be removed and reinserted.

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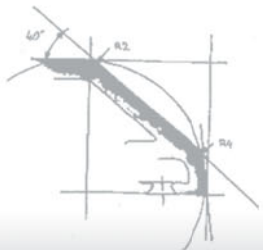
Product range: CFG  
Description: Countersunk head, Phillips No.2 recess, with single deep thread and gimlet point.  
Application: Hardware to unreinforced PVCu windows and doors  
CFG 4.3 x Finish **16 20 25 30 35 45 55 65**  
Z/Y/S Quantity per box 1,000  
e.g. CFG 4.3 x 25 Y



Product range: CSR  
Description: Countersunk head, Phillips No.2 recess, with self tapping thread and self drilling point.  
Application: Hardware to reinforced PVC-U windows and doors.  
CSR 3.9 x Finish **13 16 19 25 32 38 45**  
Z/Y/S Quantity per box 1,000  
e.g. CSR 3.9 x 25 Y

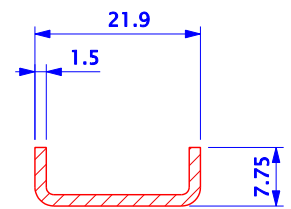
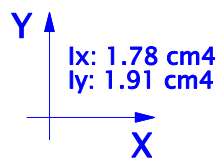
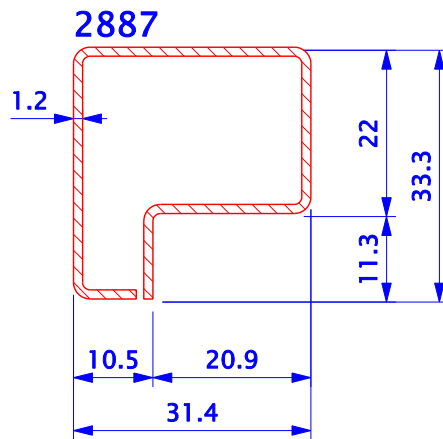
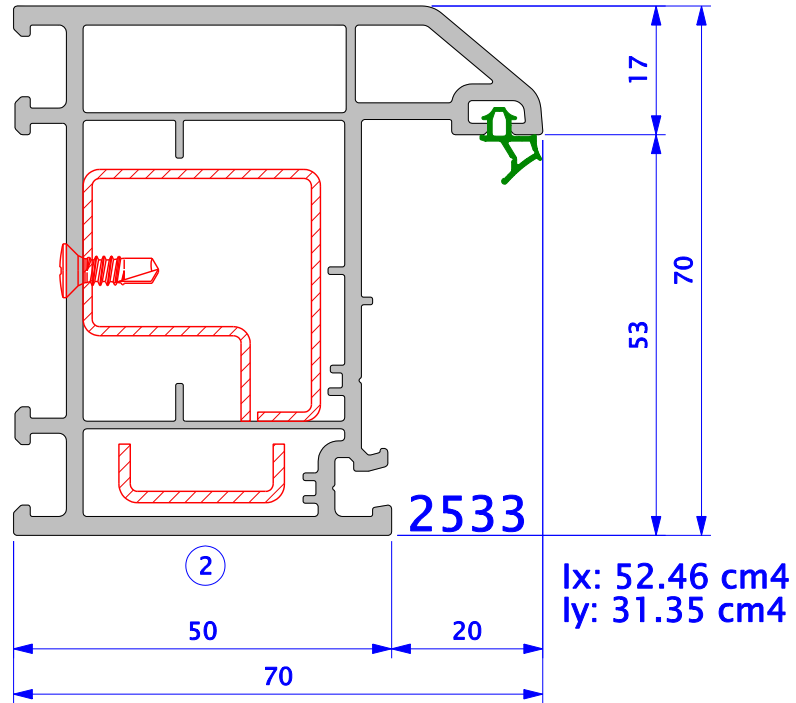
# BS7950

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LIST OF SCREW TYPES  
**PROFILE GUIDE**  
HARDWARE PARTS LIST  
FITMENT OF HARDWARE  
GENERAL ARRANGEMENTS  
GLAZING



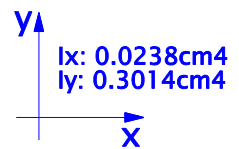


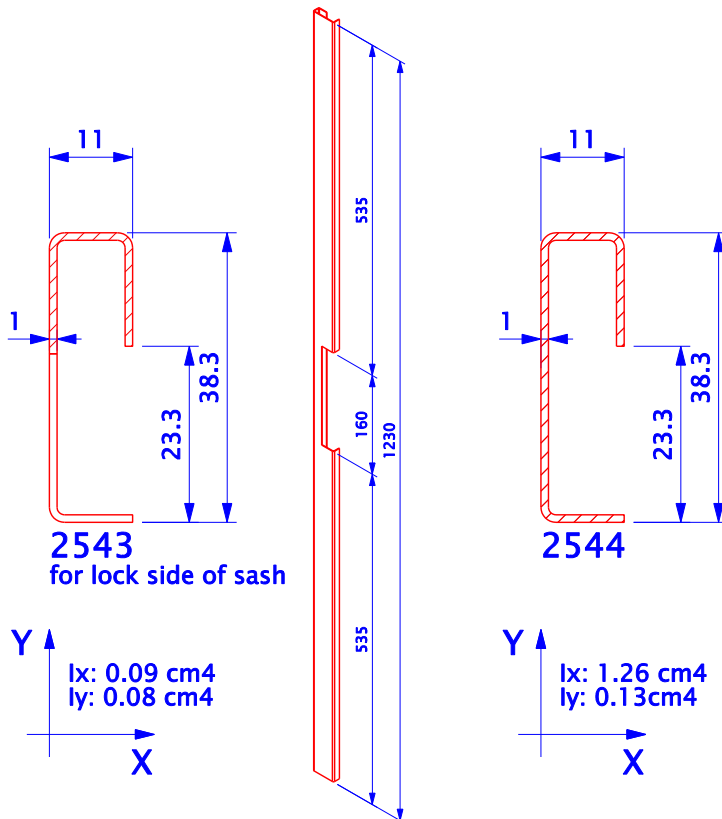
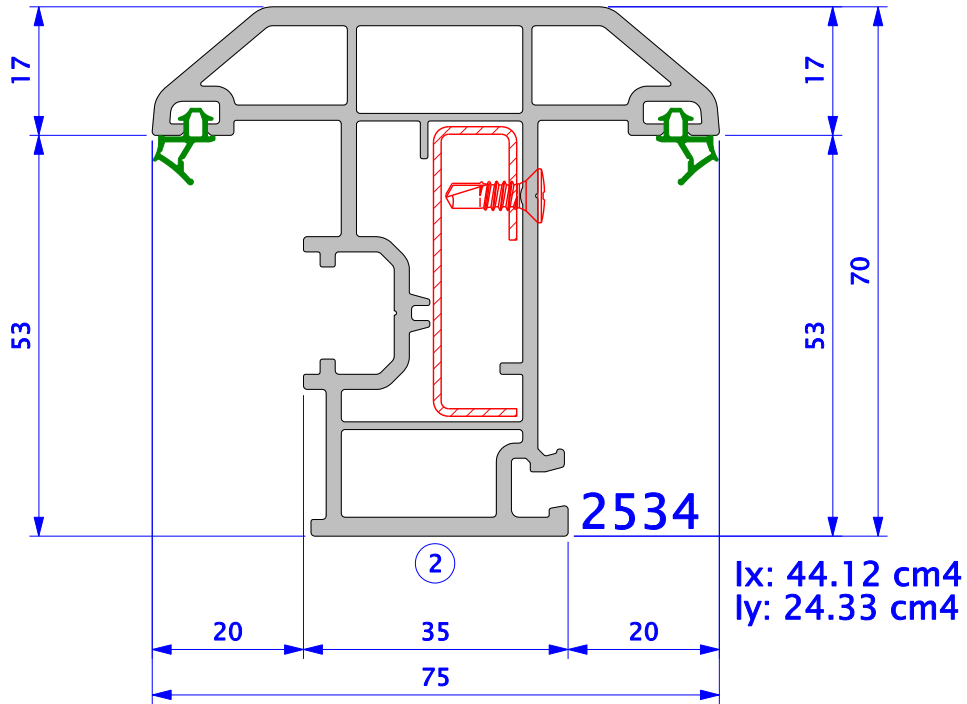


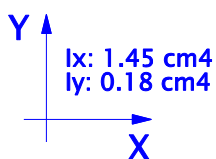
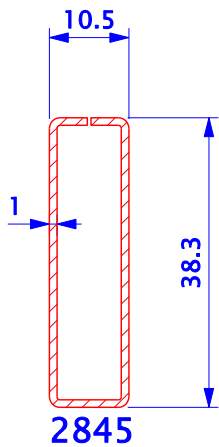
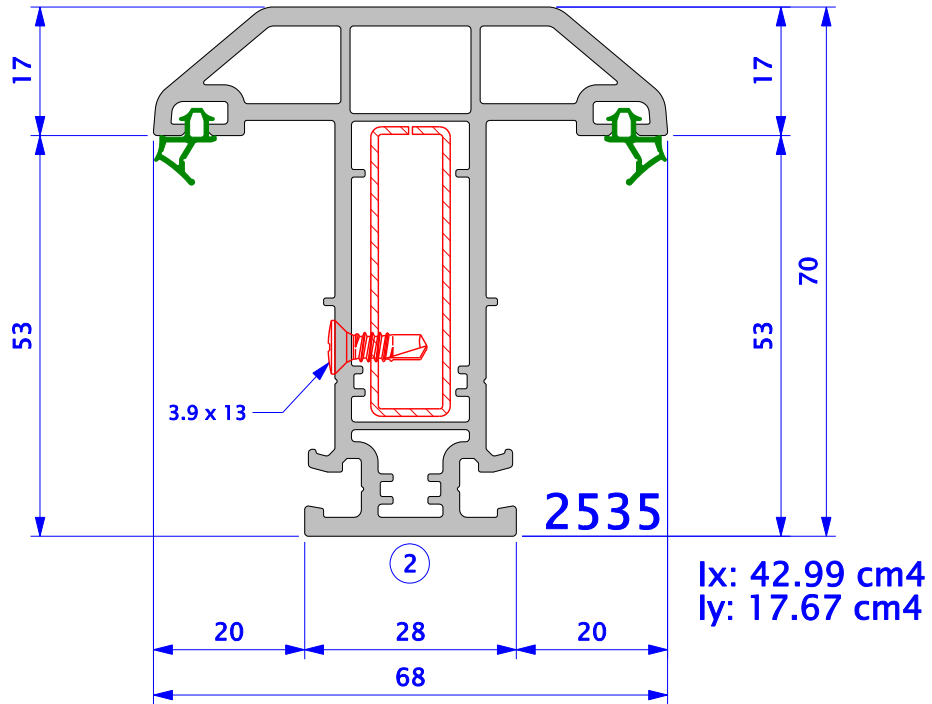


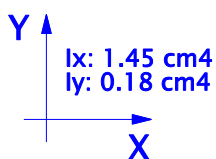
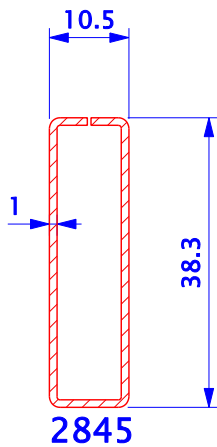
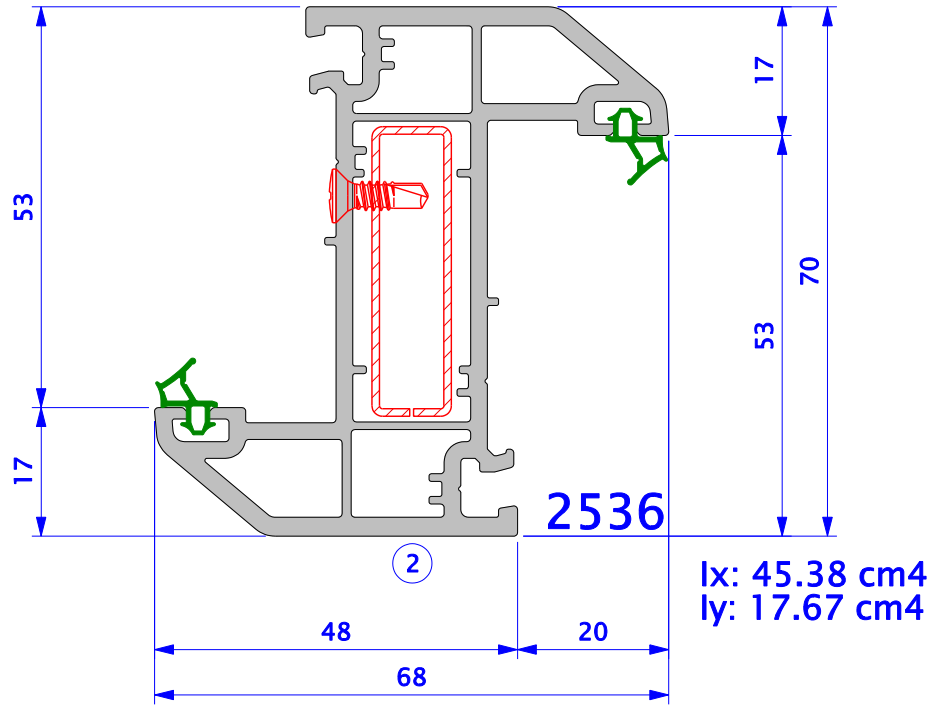
Optional reinforcement for additional strength. Not compulsory for BS 7950 test

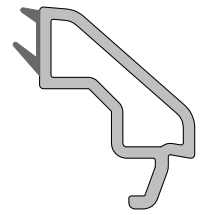
3386



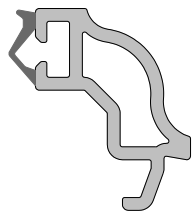




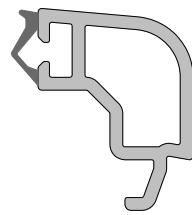




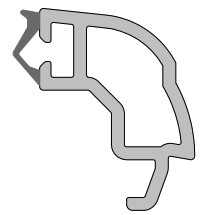
2540  
28mm bead  
Chamfered



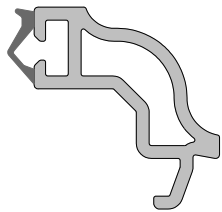
3027  
28mm bead  
Retro



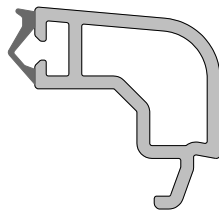
3028  
28mm bead  
Standard



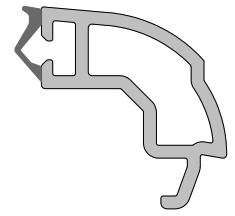
3029  
28mm bead  
Contemporary



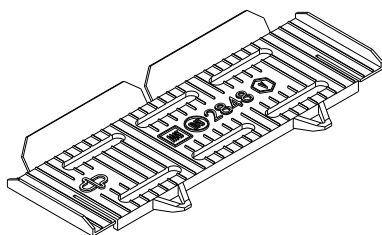
3033  
24mm bead  
Retro



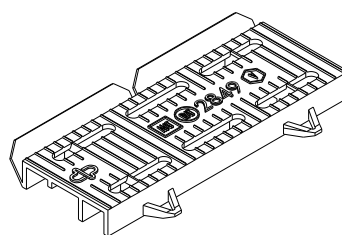
3024  
24mm bead  
Standard



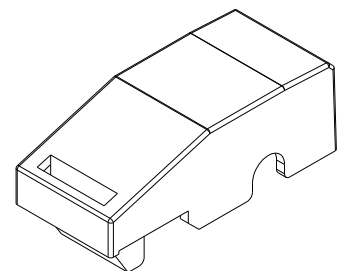
3034  
24mm bead  
Contemporary



2848  
Glazing Block



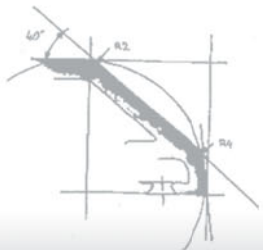
2849  
Glazing Block



DRB001  
Anti-Jimmy/  
Lifting Wedge  
(Window Widgets product)

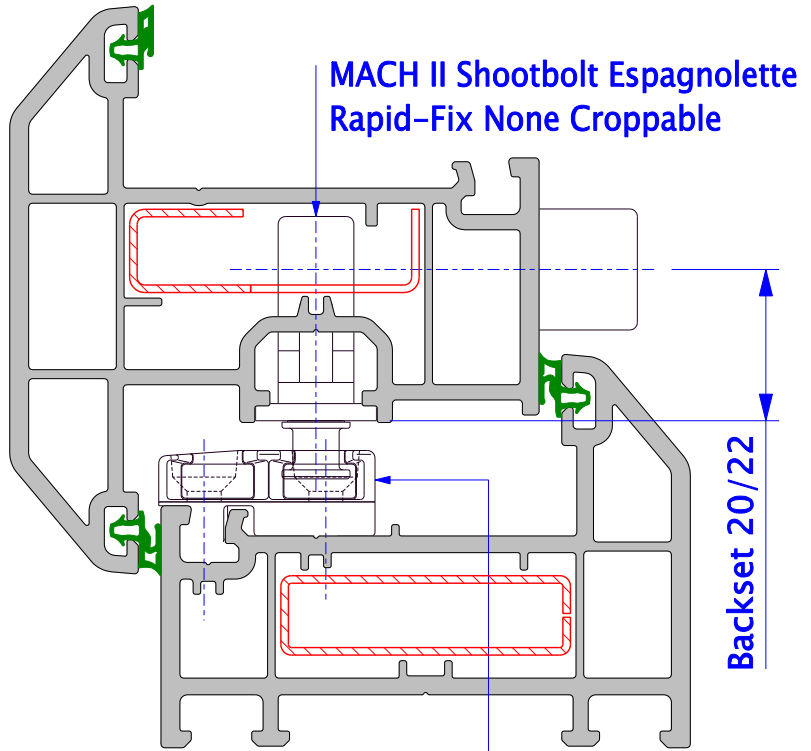
# BS7950

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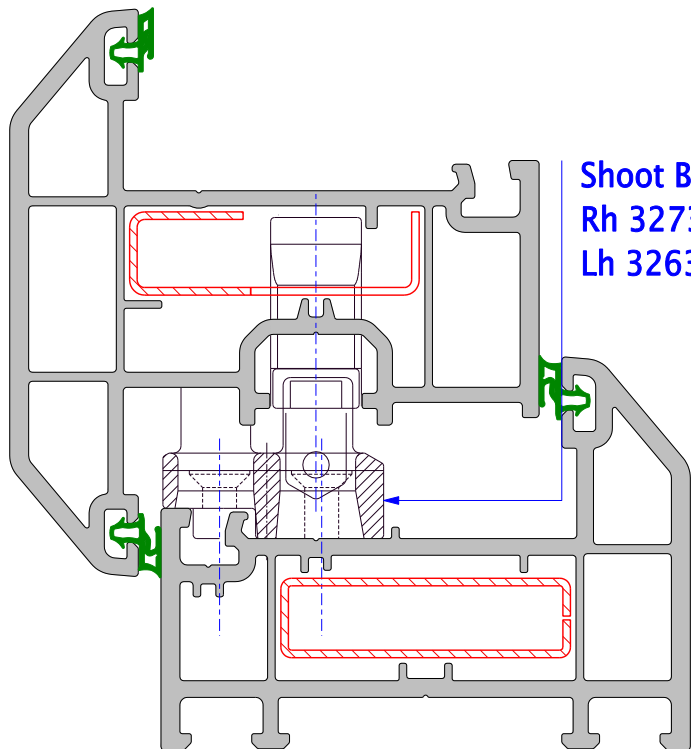
Mach II Shootbolt



MACH II Shootbolt Espagnolette  
Rapid-Fix None Croppable

Backset 20/22

Mushroom Night Vent  
Striker Plate No. 97914



Shoot Bolt Striker Plate  
Rh 32739  
Lh 32639





Fixing Hole Centre Reference – DEFENDERS® Highline Hinges

DT – Defender Top Hung H6 – 16mm Stack Height

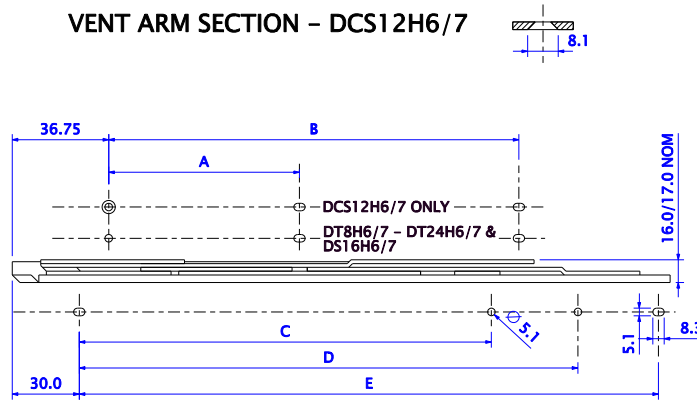
DS – Defender Side Hung H7 – 17mm Stack Height

DCS – Defender Side Hung (countersunk variant)

Dimensions

Description	A	B	C	D	E
DT8H6/H7	18.2	95.0	121.6	-	172.5
DT10H6/H7	18.2	119.6	179.9	-	223.2
DT12H6/H7	95.0	152.75	209.5	-	274.0
DT16H6/H7	152.75	220.5	281.2	-	375.6
DT20H6/H7	220.5	271.75	246.8	-	477.2
DT24H6/H7	271.75	322.5	195.0	-	578.8
DCS12H6/H7	119.6	188.25	195.0	-	274.0
DS16H6/H7	152.75	220.5	209.5	327.0	375.6

VENT ARM SECTION – DCS12H6/7

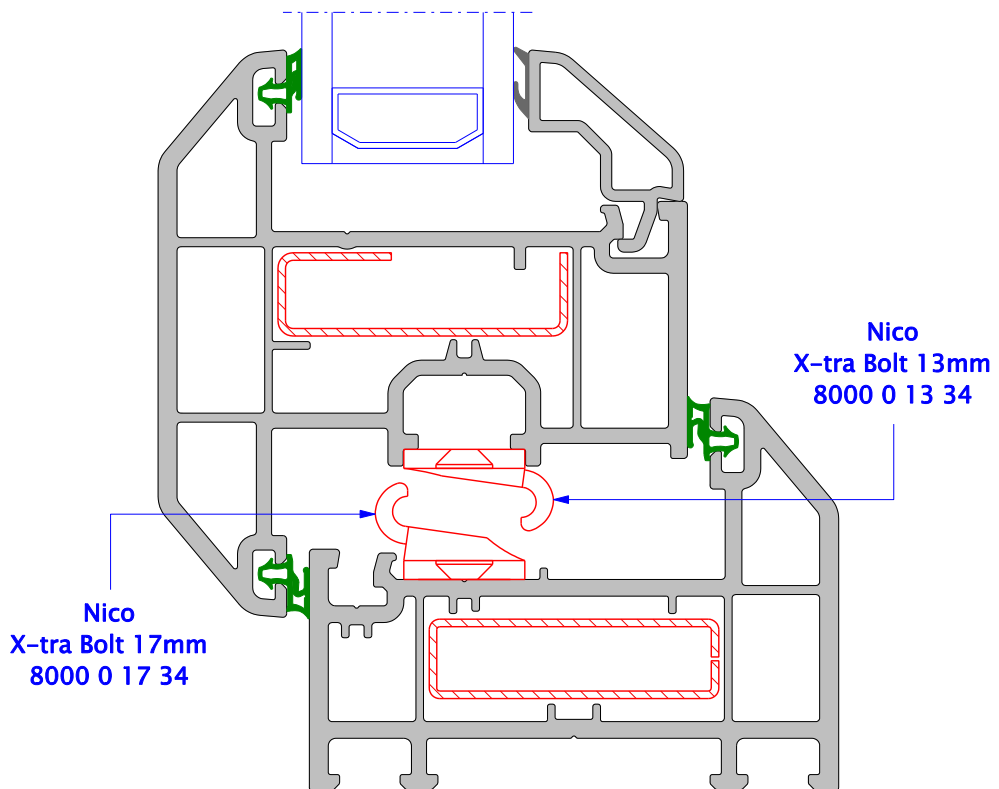
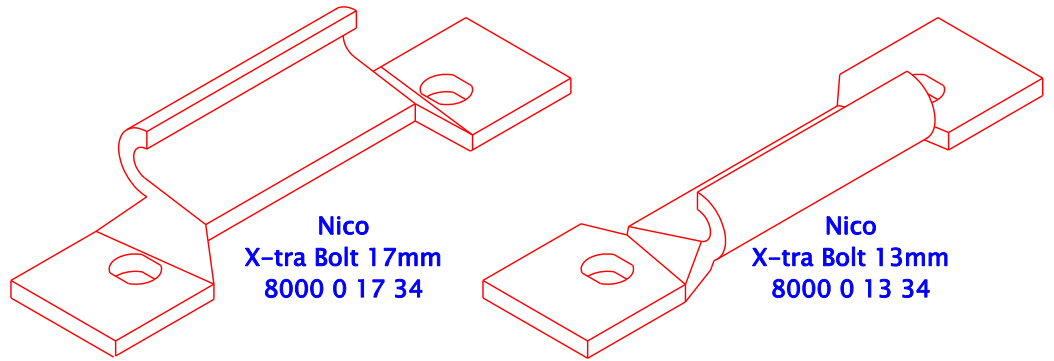


Hinge Code (Top Hung)	Max. Vent Weight (Kg)	Min. Vent Height (mm)	Max. Vent Height (mm)	Max. Vent Width (mm)	Restricted Angle (+/- 2.5°)	Opening Angle (+/- 2.5°)
DT6	10	150	300	-	-	50°
DT8	12	200	350	-	-	50°
DT10	16	275	400	-	-	80°
DT12 DTR12	20	350	550	-	14°	80° 65°
DT16 DTR16	21	500	750	-	10°	80° 59°
DT20 DTR20	24	700	1000	-	9°	50°
DT24 DTR24	36	850	1200	-	7°	37.5°
Hinge Code (Side Hung)		Min. Vent Width (mm)				
DC12 & DCS12 DSR12 & DCSR12	22	300	-	600	13°	60° 58°
DS16 DSR16	24	400	-	700	11°	60° 58°

Note: Vent height width is measured from rebate to rebate (not overall size or outer frame size) on conventional windows or glass size on structurally glazed windows e.g. curtain wall panels whichever is the greater dimension. For maximum vent height and widths not stated, consult profile manufacturers for recommendations on requirements of system strength and sealing.

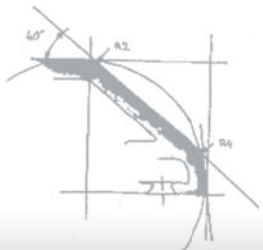
Note: Above sizes/weight also apply to DEFENDER® Hinge Variants – H6, H7 (Highline) & S (Slimline–non restricted standard stack height only).

Note: For slim aluminium systems these vent sizes may need to be reduced on restricted hinges to comply with a maximum restricted opening of 100mm. See chart in restricted section.



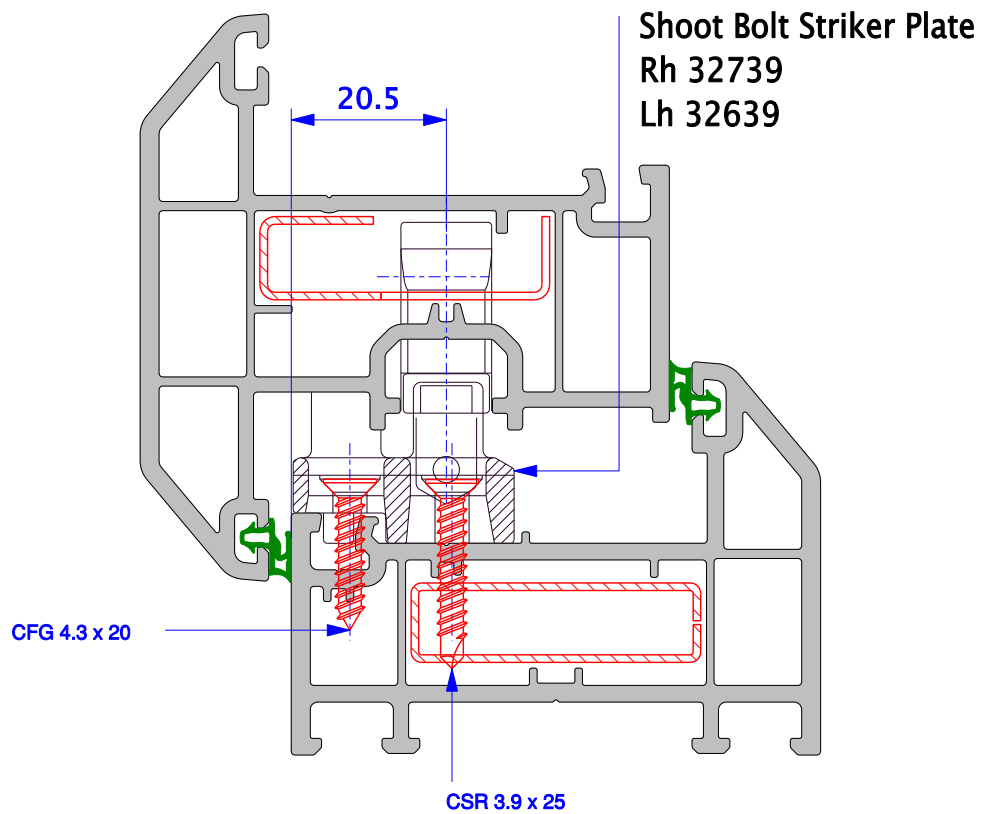
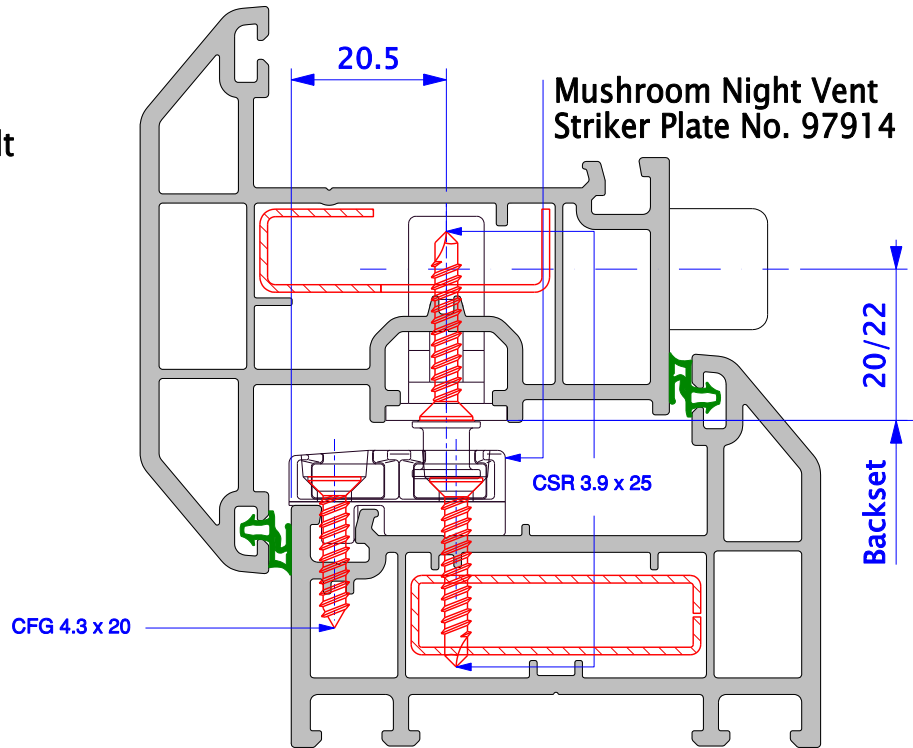
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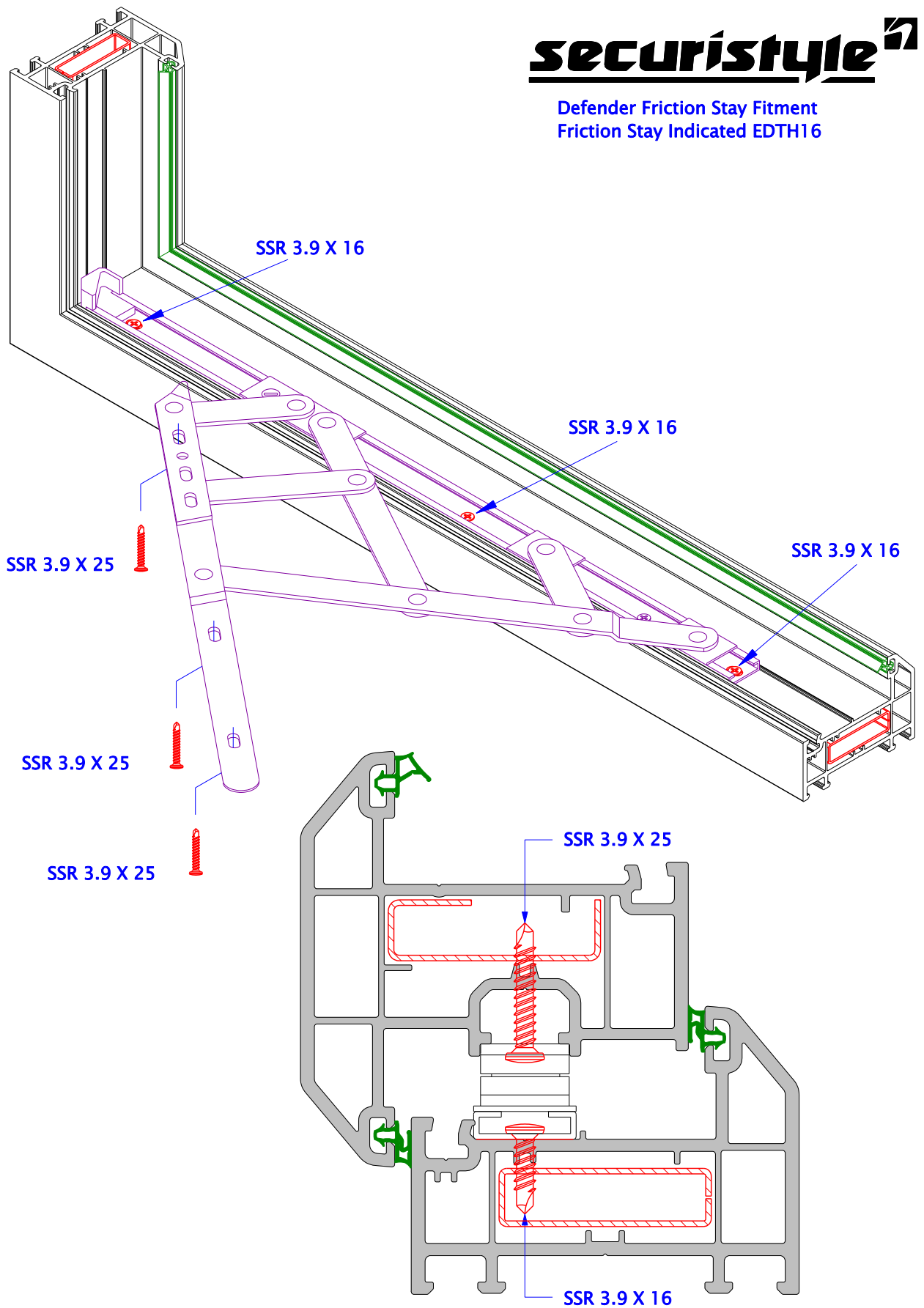


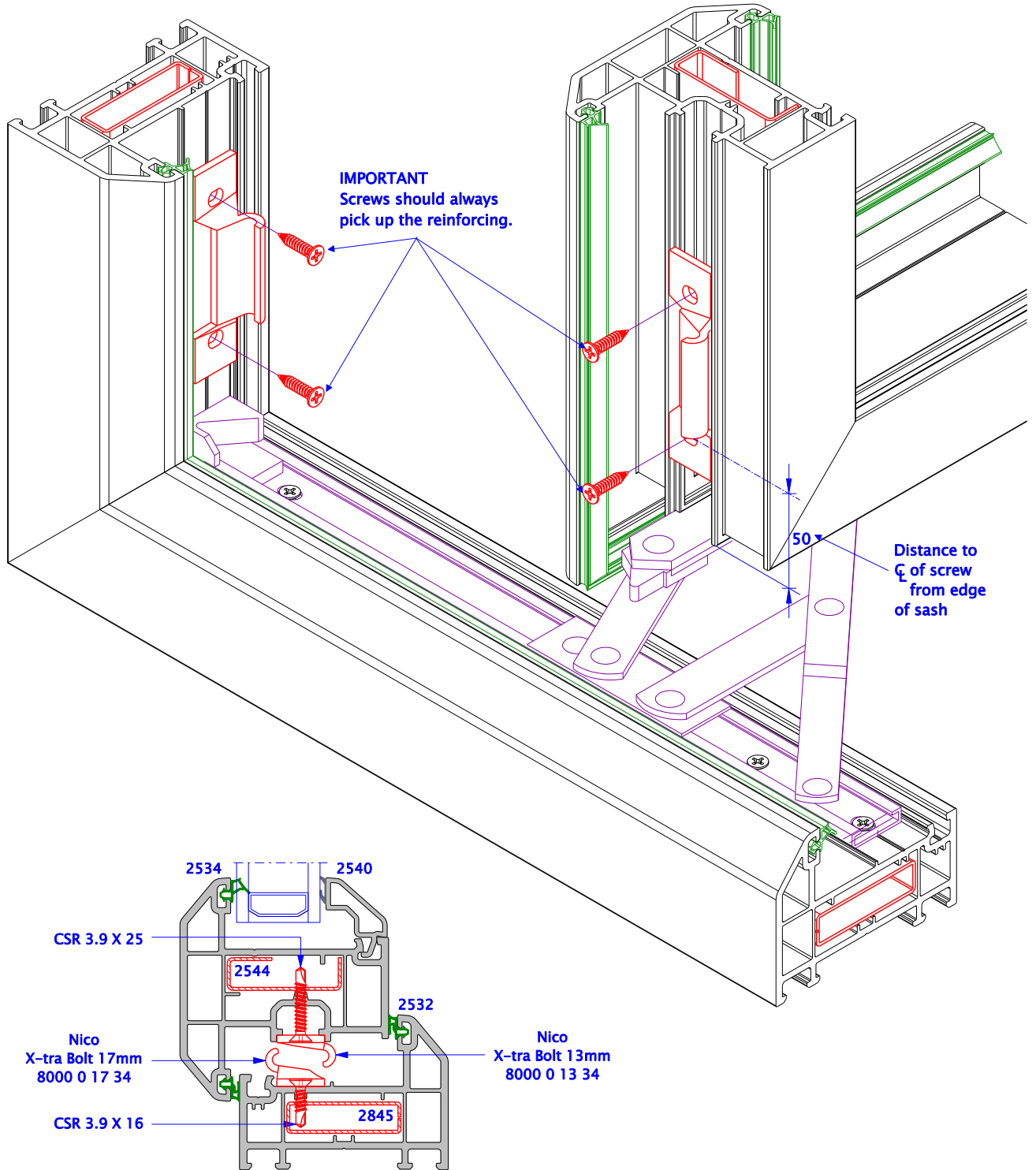
Mach II Shootbolt



**Securistyle**

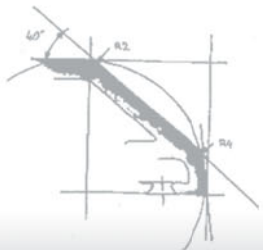
Defender Friction Stay Fitment  
Friction Stay Indicated EDTH16





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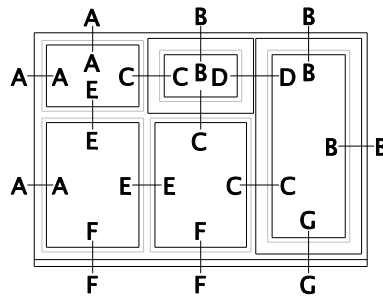


**Sections**

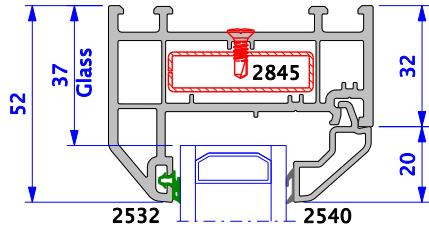
**Casement Window  
Internally Beaded  
Small Outer Frame**

2500 chamfered

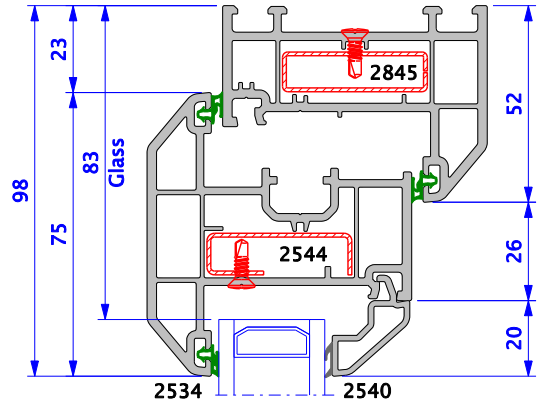
**BS 7950 MANUAL**



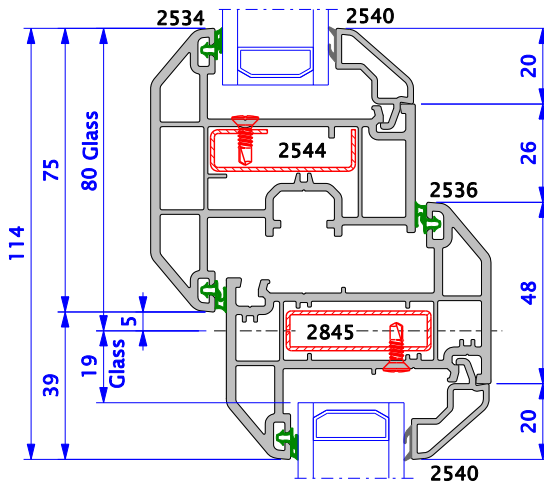
**SECTION A-A**



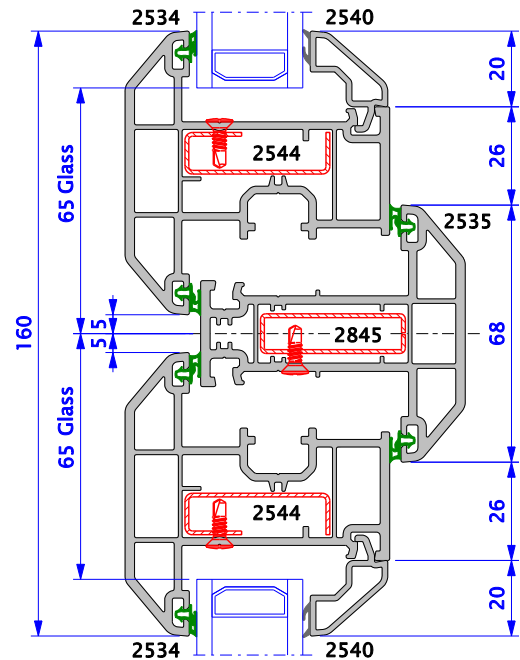
**SECTION B-B**



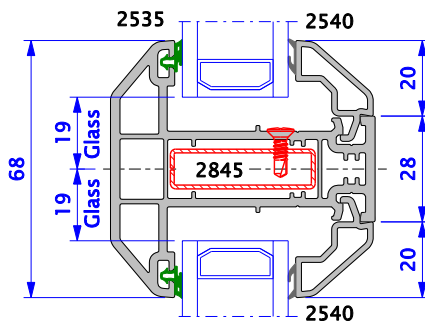
**SECTION C-C**



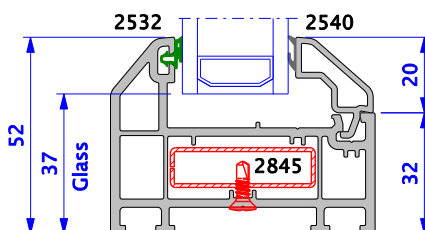
**SECTION D-D**



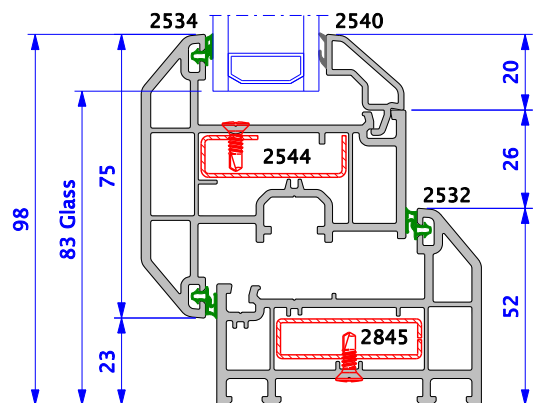
**SECTION E-E**



**SECTION F-F**



**SECTION G-G**

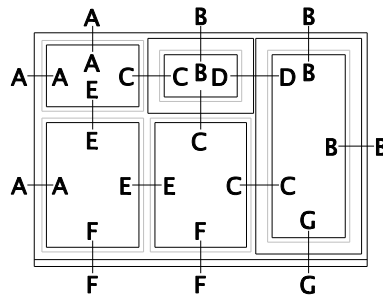




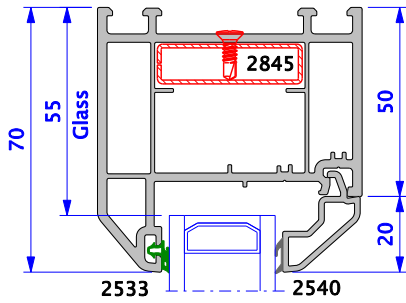
**Sections**  
**Casement Window**  
**Internally Beaded**  
**Large Outer Frame**

2500 chamfered

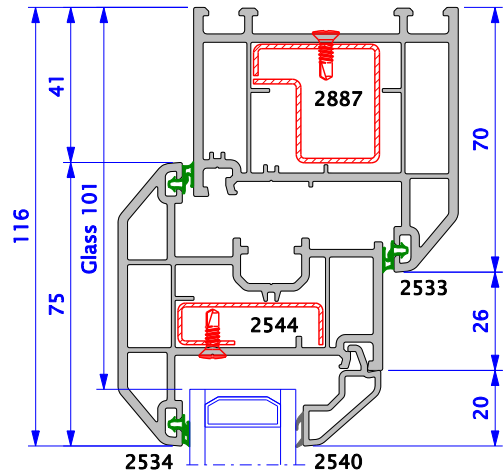
BS 7950 MANUAL



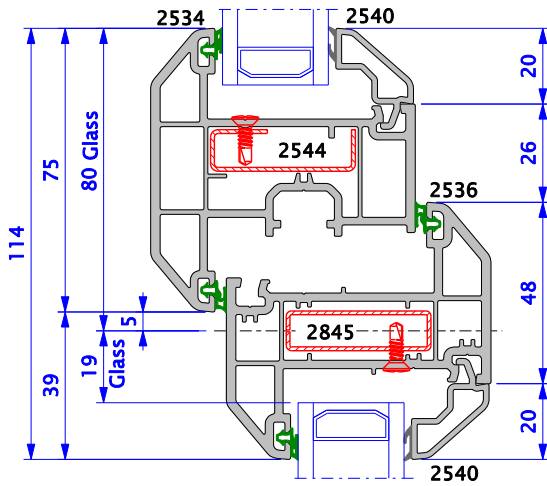
SECTION A-A



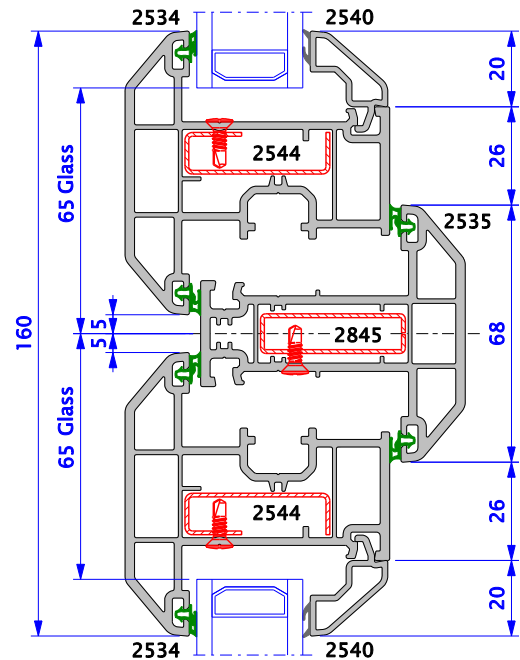
SECTION B-B



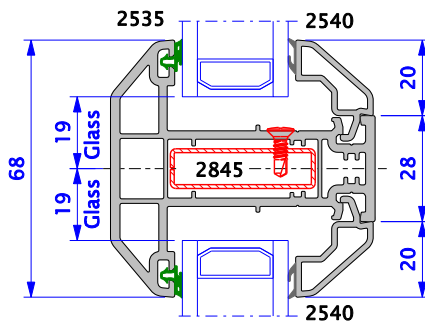
SECTION C-C



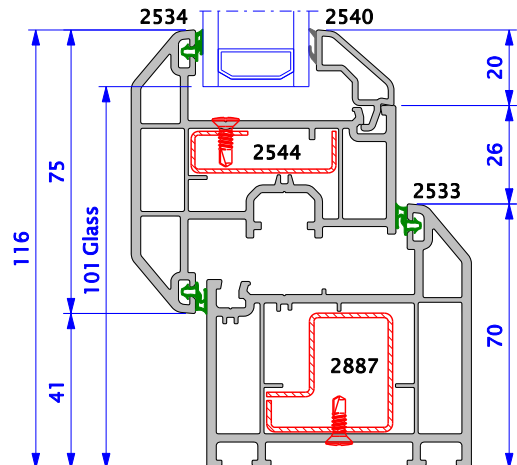
SECTION D-D



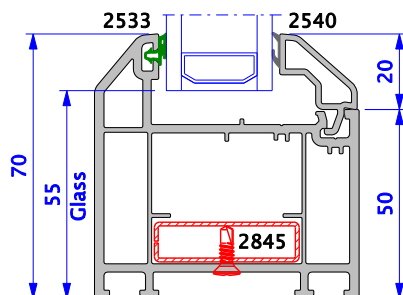
SECTION E-E



SECTION G-G

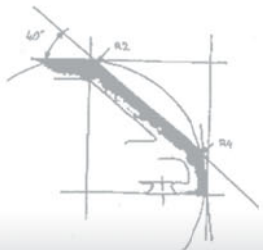


SECTION F-F

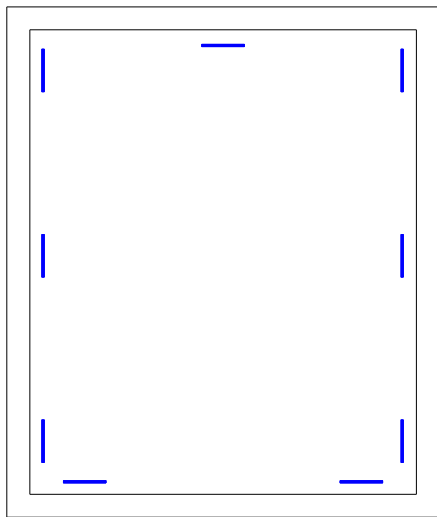


# BS7950

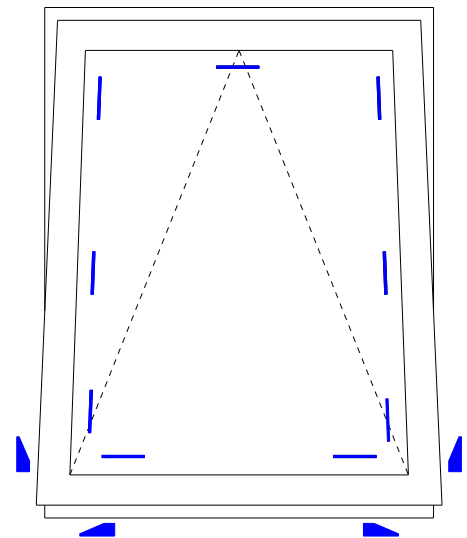
GENERAL STATEMENT  
LIST OF SCREW TYPES  
PROFILE GUIDE  
HARDWARE PARTS LIST  
FITMENT OF HARDWARE  
GENERAL ARRANGEMENTS  
**GLAZING**



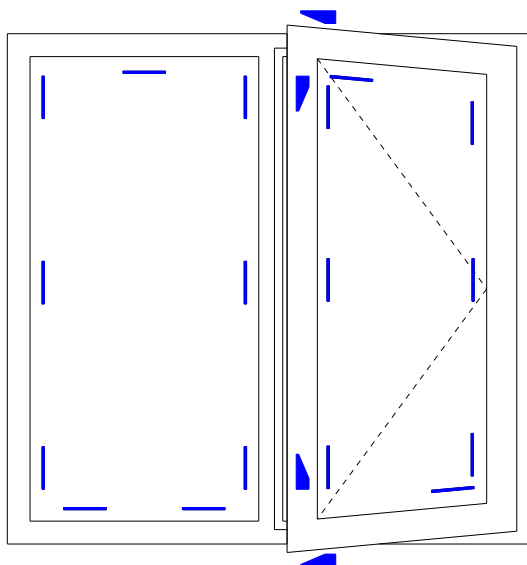
These diagrams are intended as guidelines only.  
 Glazing packers should have maximum centres of 500mm and be a maximum of 150mm from corner of unit.  
 The number of vertical packers is relative to the window height (with a minimum of 2 per side).  
 Deceuninck also recommend the positioning glazing packers behind locking points and hinge bolts.



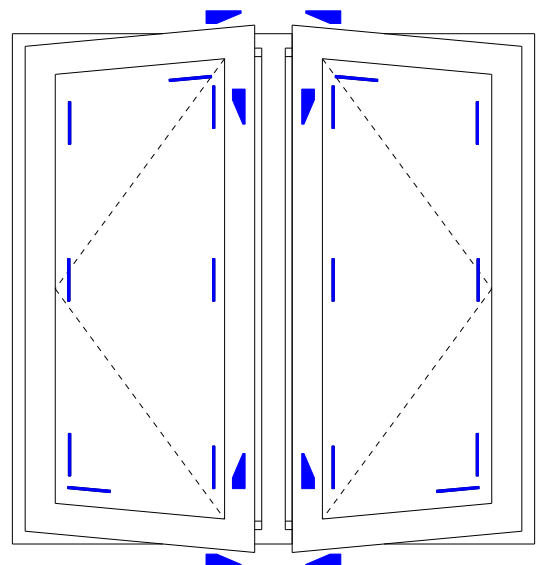
FIXED LIGHTS



TOP HUNG



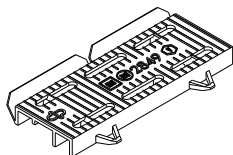
SIDE HUNG NEXT TO FIXED



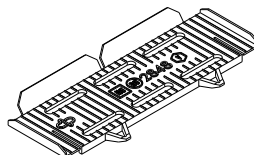
SIDE HUNG NEXT TO SIDE HUNG

— GLAZING BLOCKS

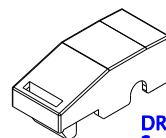
▲ ANTI-JEMMY/  
LIFTING WEDGE



2848  
(for use at sides of glazing only)



2849  
(for use below glazing only)



DRB001  
Supplier details:  
Window Widgets  
(01452) 300912