

# Security Manual BS7950

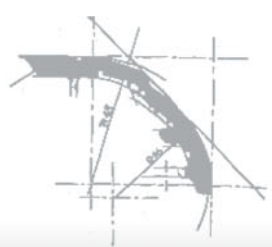
2800 decorative  
06.08



## CONTENT

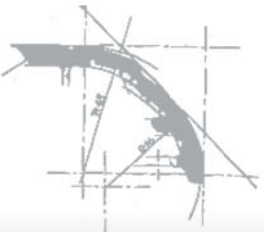
### 1. BS7950

- 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 2800 decorative 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 2800 decorative 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 2800 decorative Technical Manual.

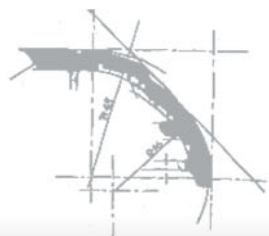
**■ MAXIMUM SIZES**

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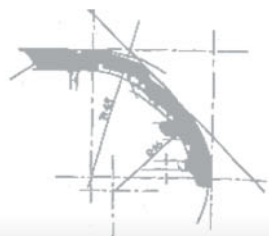
Product range: CFG  
Description: Countersunk head, Phillips No.2 recess, with single deep thread and gimlet point.  
Application: Hardware to unreinforced PVCu windows and doors  
CFG 4.3 x Finish 16 20 25 30 35 45 55 65  
Z/Y/S Quantity per box 1,000  
e.g. CFG 4.3 x 25 Y



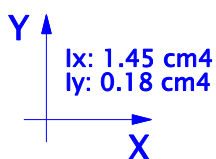
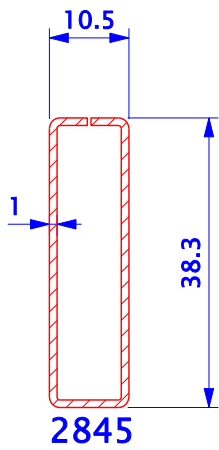
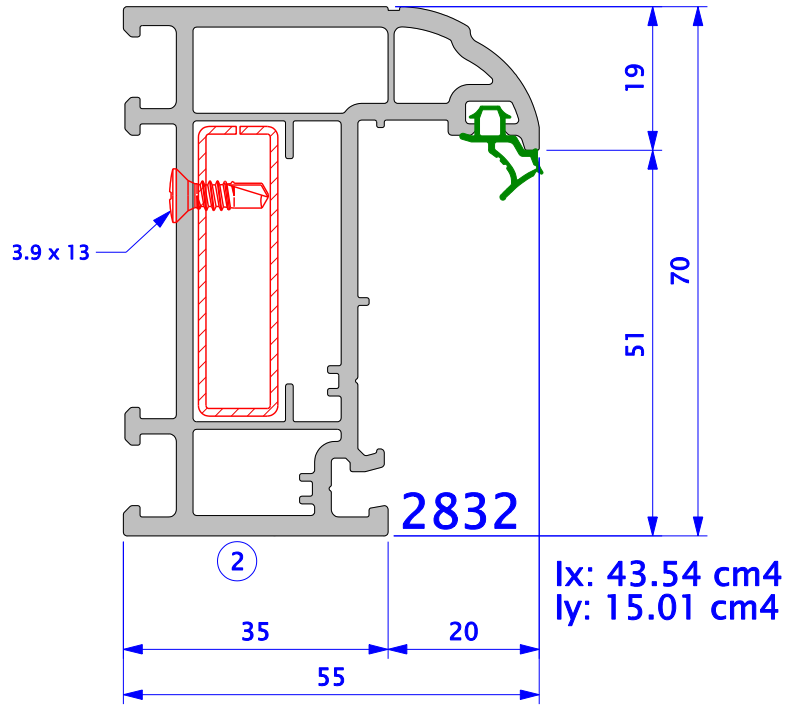
Product range: CSR  
Description: Countersunk head, Phillips No.2 recess, with self tapping thread and self drilling point.  
Application: Hardware to reinforced PVC-U windows and doors.  
CSR 3.9 x Finish 13 16 19 25 32 38 45  
Z/Y/S Quantity per box 1,000  
e.g. CSR 3.9 x 25 Y

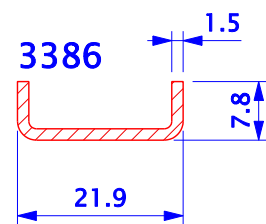
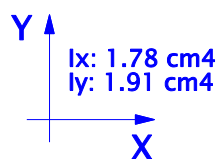
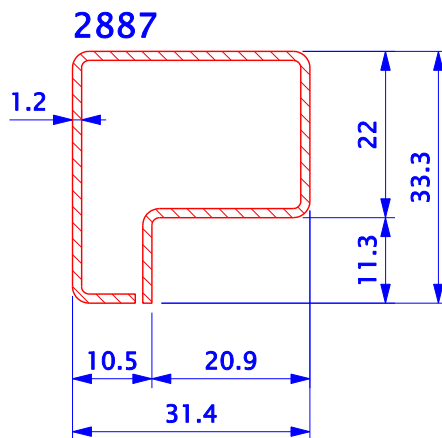
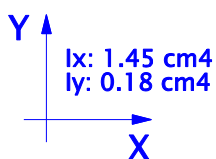
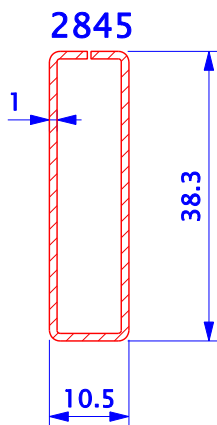
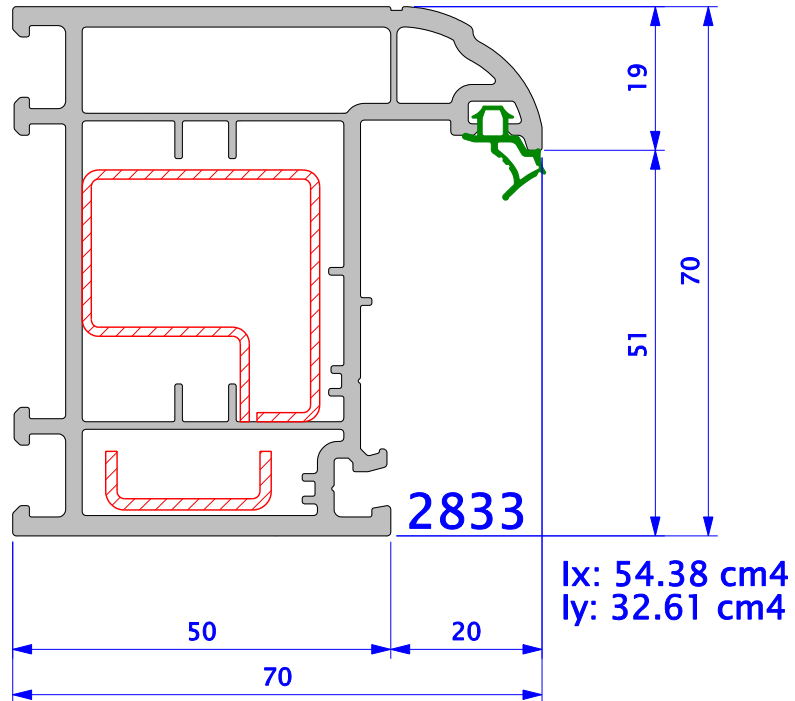
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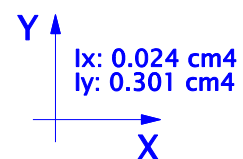


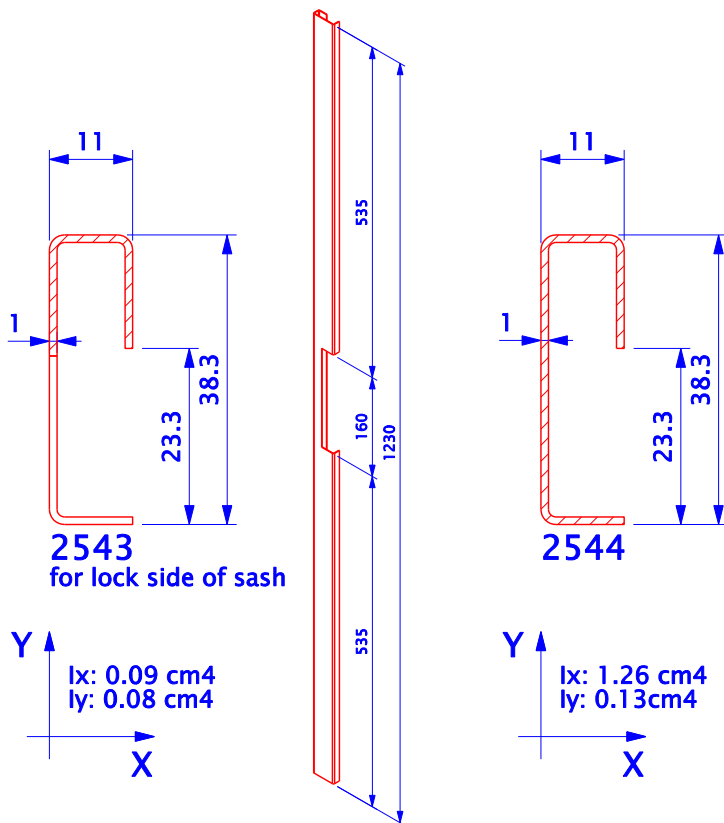
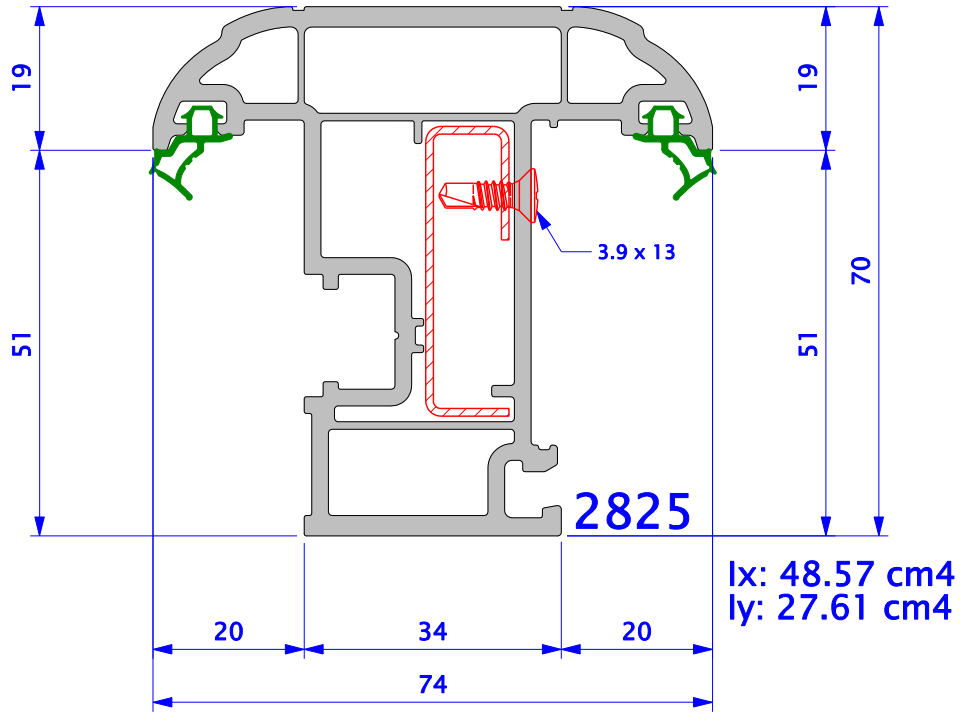


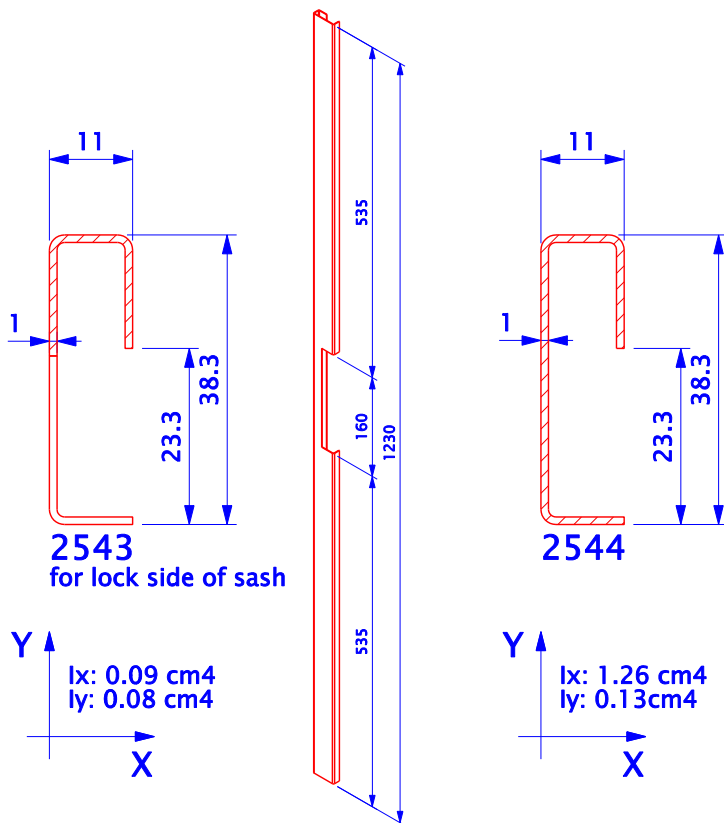
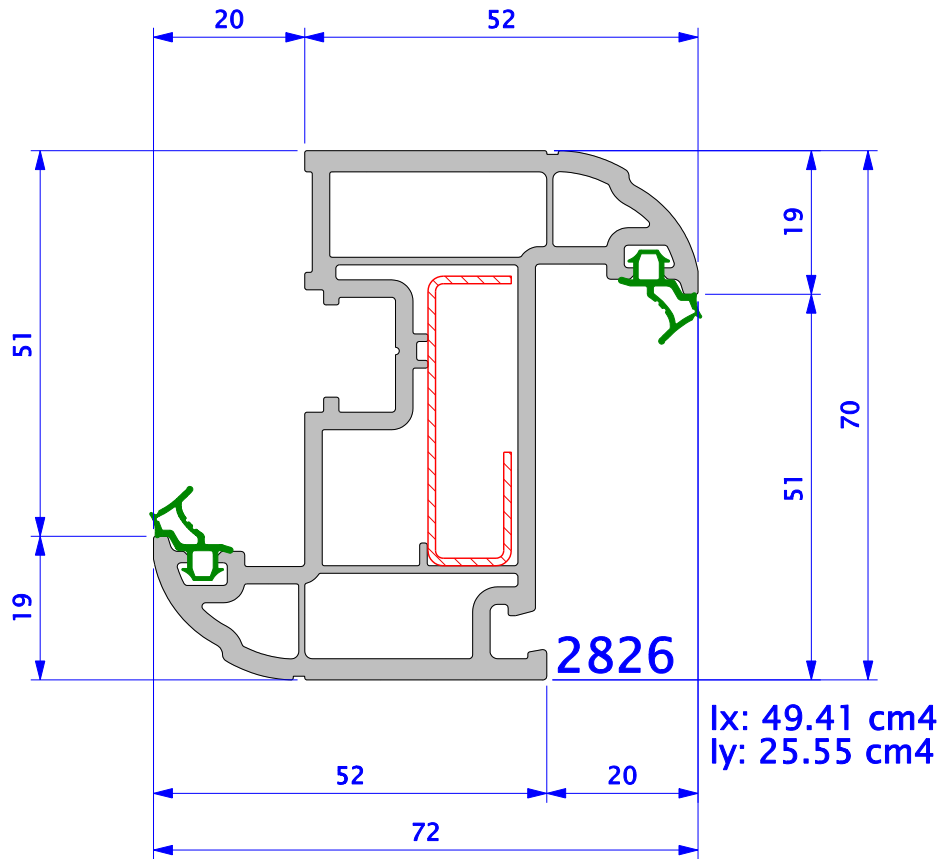


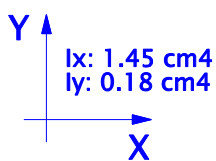
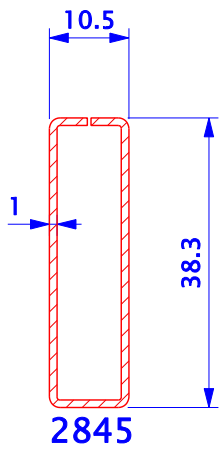
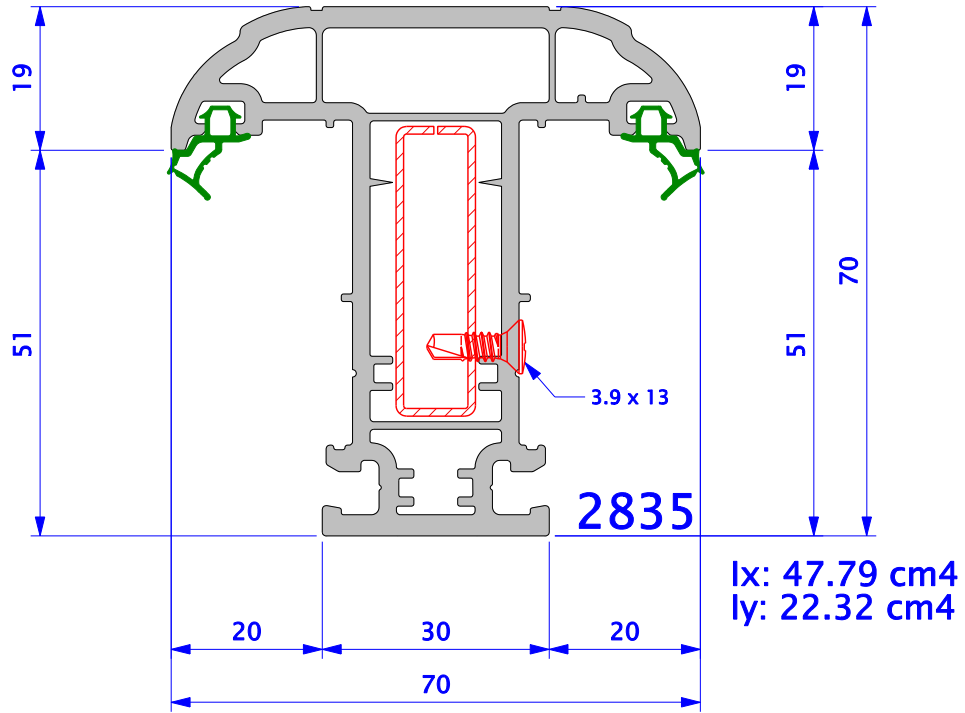


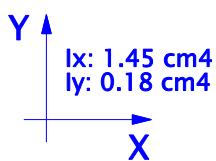
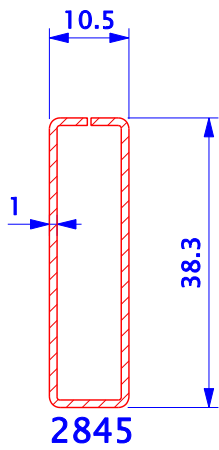
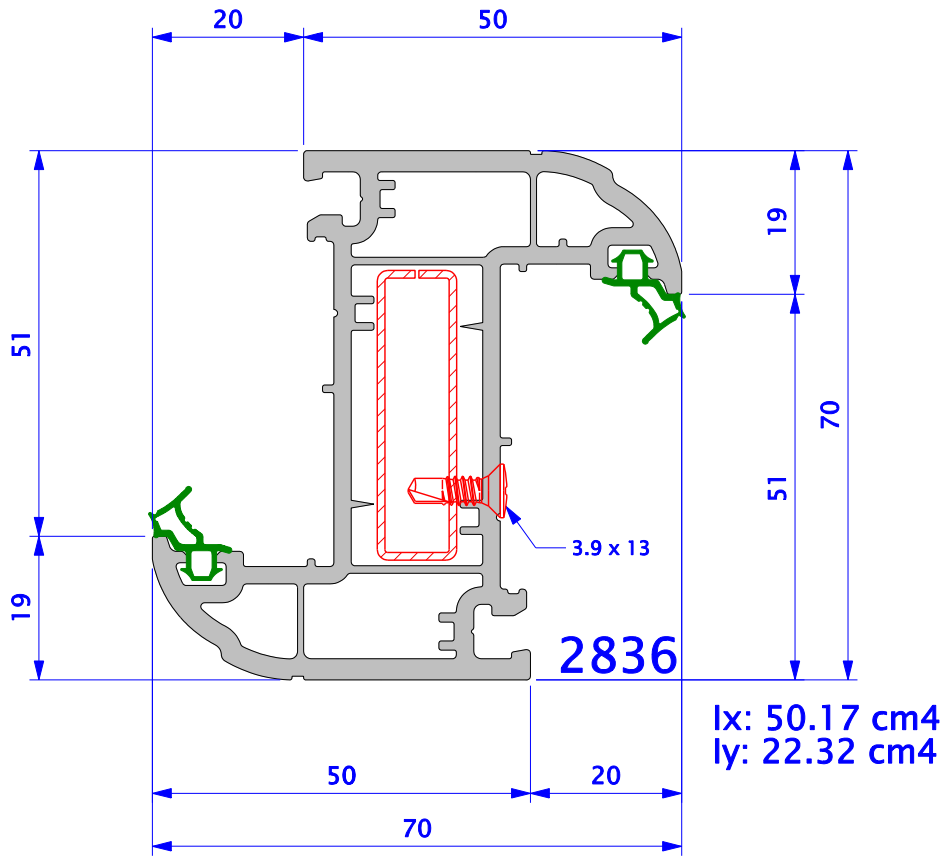
Optional reinforcement for additional strength. Not compulsory for BS 7950 test.

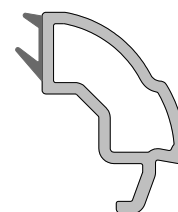




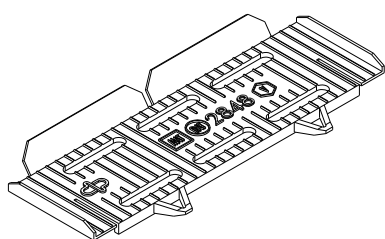




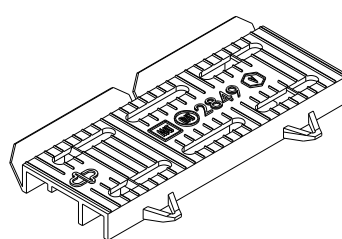




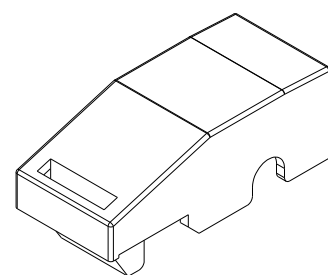
2840  
28mm bead  
Decorative



2848  
Glazing Block



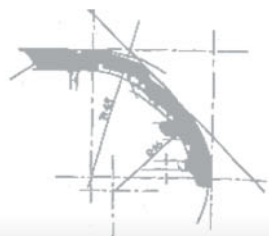
2849  
Glazing Block



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

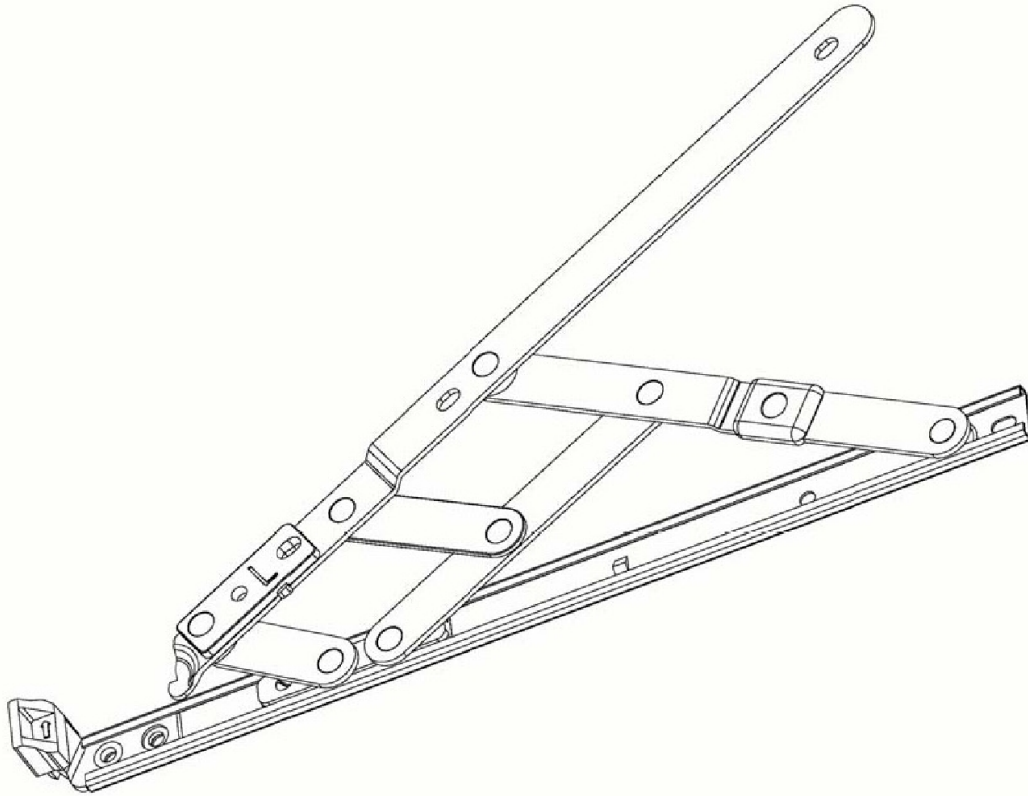
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## Nico Security + Hinges for deceuninck 2800 Series



Size	200mm (8")	250mm (10")	300mm (12")	300mm (12")
Vent Type	Top Hung	Top Hung	Top Hung	Side Hung
Max. Vent Width	1200mm	1200mm	1200mm	600mm
Max. Vent Height	350mm	400mm	550mm	1300mm
Max. Vent Weight	12kg	16kg	20kg	22kg
Opening Angle	73 deg.	65 deg.	60 deg.	60 deg.
Order No. LH	8110 L	8120 L	8135 L	8135 L
Order No. RH	8110 R	8120 R	8135 R	8135 R

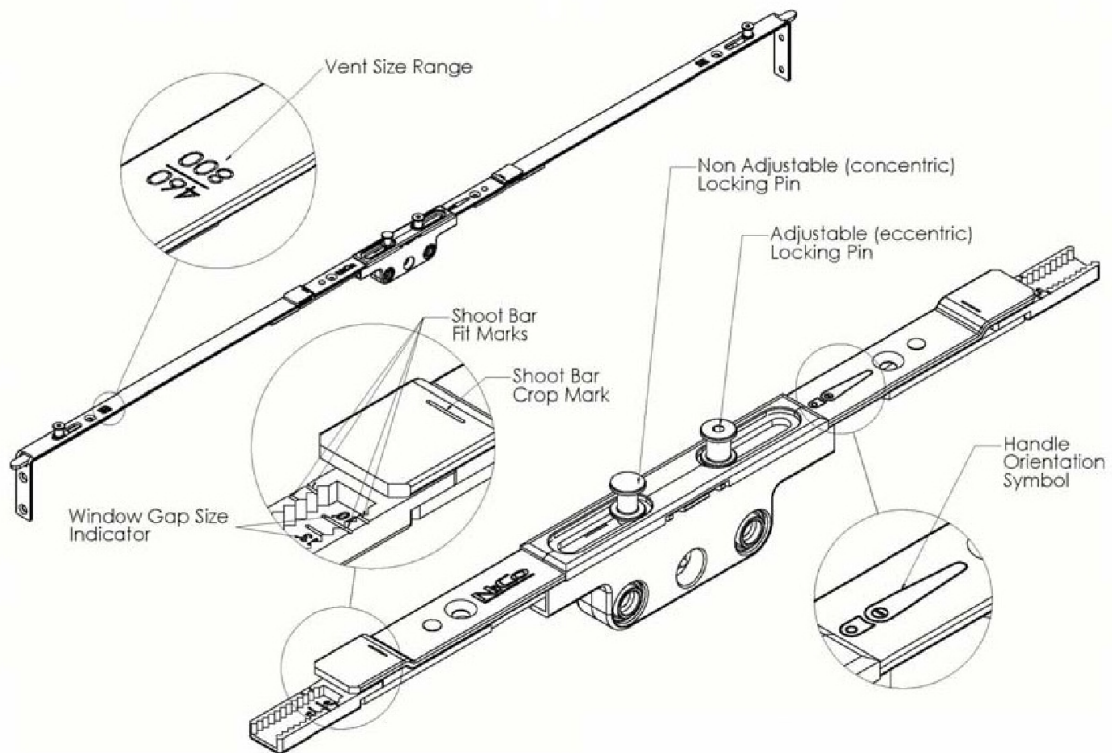
Size	400mm (16")	400mm (16")	500mm (20")	600mm (24")
Vent Type	Side Hung	Top Hung	Top Hung	Top Hung
Max. Vent Width	700mm	1200mm	1000mm	1200mm
Max. Vent Height	1300mm	750mm	1000mm	1200mm
Max. Vent Weight	24kg	21kg	24kg	35kg
Opening Angle	60 deg.	60 deg.	52 deg.	38 deg.
Order No. LH	8140 L	8145 L	8150 L	8160 L
Order No. RH	8140 R	8145 R	8150 R	8160 R

Restrictor Hinges	300mm (12")	400mm (16")	600mm (24")
Order No.LH	8135 LRA	8140 LRA	8160 LRA
Order No.RH	8135 RRA	8140 RRA	8160 RRA

Security Plus Restrictor hinges are only available in Austenitic Stainless.

Restrictor size and weight parameters as per non-restricted products.

**Nico Shootbolt for deceuninck 2800 Series**



Description	Number per sash	Sash size ( mm )	Part Number	Box Quantity
Centre Gearbox Assembly	1	Any size	93904	20
330mm-460mm Extensions	2	330 - 460	93914	40
460mm-800mm Extensions	2	460 - 800	93924	40
800mm-1100mm Extensions	2	800 - 1100	93934	40
1100mm-1400mm Extensions	2	1100 - 1400	93944	40
<b>Keeps</b>	3	Any size	9004	200
Corner Keep LH	1	Any size	K1-L	200
Corner Keep RH	1	Any size	K1-R	200

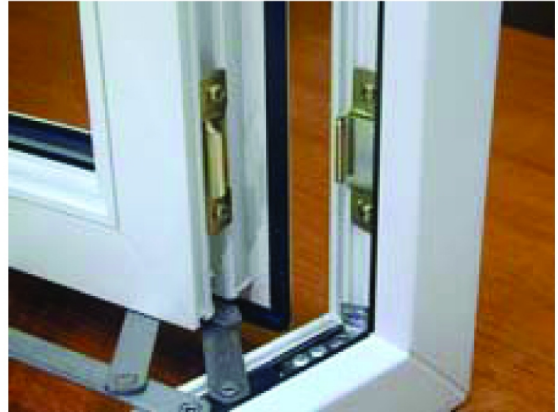


**X-TRA BOLT**

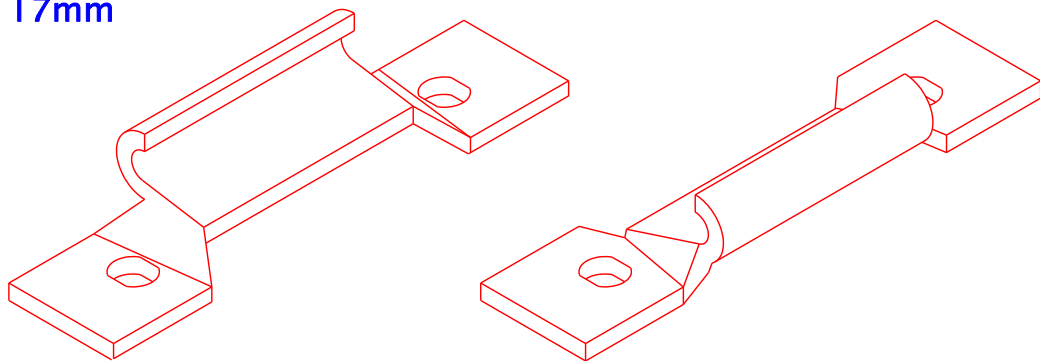
A simple to fit security device that provides additional security for uPVC or timber windows.

Manufactured from heavygauge steel (2.3mm) and plated for an attractive, long-life finish, the Nico X-tra Bolt is quick and easy to fit.

Exceeding the requirements of BS7950 and PAS 024, the X-tra Bolt's patented design is strong and robust. It is suitable for new or retrofit installations, and can be used with all Friction Hinges, including Egress and Restrictor Hinges.



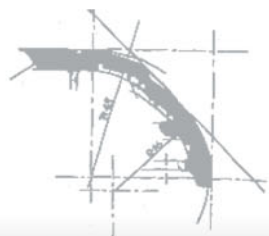
**Nico X-TRA BOLT  
17mm**

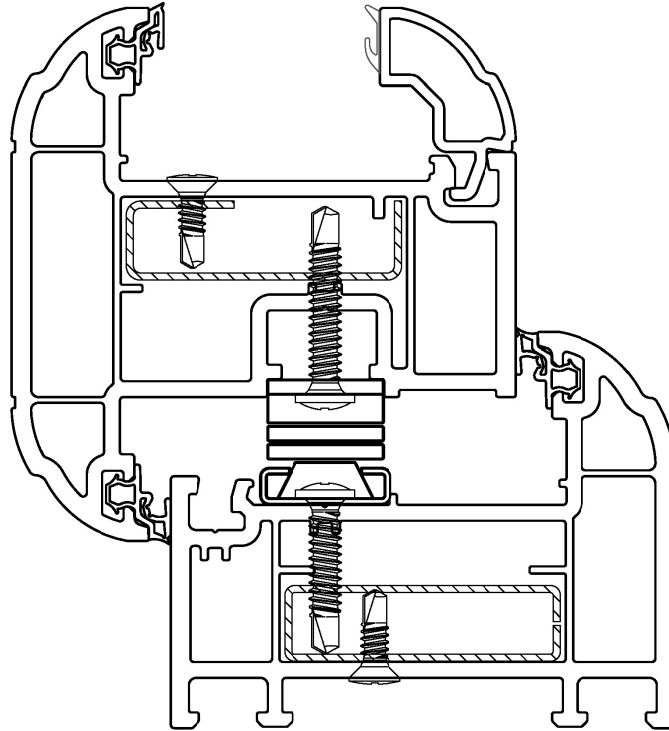


Part No. 8100 0 17 44 (silver)  
8100 0 17 34 (yellow)

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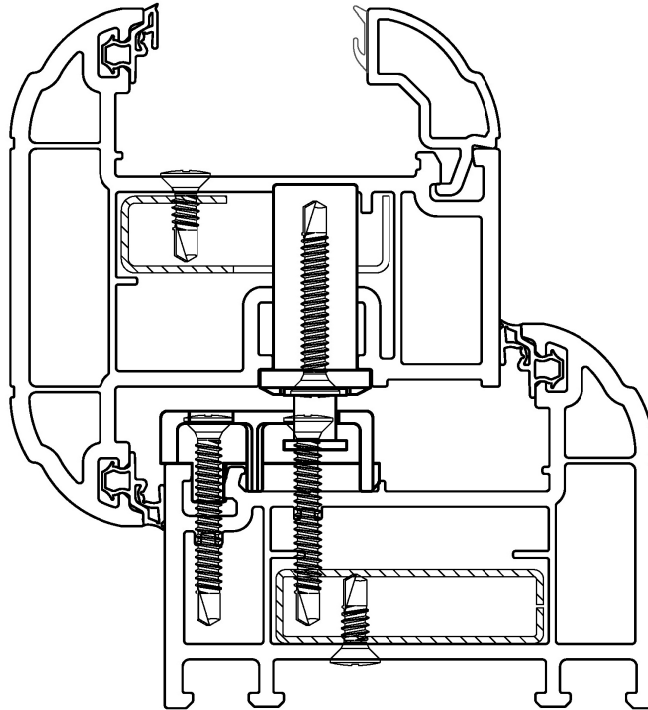
Size	200mm (8")	250mm (10")	300mm (12")	300mm (12")
Vent Type	Top Hung	Top Hung	Top Hung	Side Hung
Max. Vent Width	1200mm	1200mm	1200mm	600mm
Max. Vent Height	350mm	400mm	550mm	1300mm
Max. Vent Weight	12kg	16kg	20kg	22kg
Opening Angle	73 deg.	65 deg.	60 deg.	60 deg.
Order No. LH	8110 L	8120 L	8135 L	8135 L
Order No. RH	8110 R	8120 R	8135 R	8135 R

Size	400mm (16")	400mm (16")	500mm (20")	600mm (24")
Vent Type	Side Hung	Top Hung	Top Hung	Top Hung
Max. Vent Width	700mm	1200mm	1000mm	1200mm
Max. Vent Height	1300mm	750mm	1000mm	1200mm
Max. Vent Weight	24kg	21kg	24kg	35kg
Opening Angle	60 deg.	60 deg.	52 deg.	38 deg.
Order No. LH	8140 L	8145 L	8150 L	8160 L
Order No. RH	8140 R	8145 R	8150 R	8160 R

Restrictor Hinges	300mm (12")	400mm (16")	600mm (24")
Order No. LH	8135 LRA	8140 LRA	8160 LRA
Order No. RH	8135 RRA	8140 RRA	8160 RRA

Security Plus Restrictor hinges are only available in Austenitic Stainless.

Restrictor size and weight parameters as per non-restricted products.



Description	Number per sash	Sash size ( mm )	Part Number	Box Quantity
Centre Gearbox Assembly	1	Any size	<b>93904</b>	20
330mm-460mm Extensions	2	330 - 460	<b>93914</b>	40
460mm-800mm Extensions	2	460 - 800	<b>93924</b>	40
800mm-1100mm Extensions	2	800 - 1100	<b>93934</b>	40
1100mm-1400mm Extensions	2	1100 - 1400	<b>93944</b>	40
Keeps	3	Any size	<b>9004</b>	200
Corner Keep LH	1	Any size	<b>K1-L</b>	200
Corner Keep RH	1	Any size	<b>K1-R</b>	200

## SECURITY PLUS X-TRA BOLTS

It is essential to fit Nico X-tra bolts to the Deceuninck 2800 series casement window made to BS 7950:1997 - enhanced security standard. The recommendations of Nico detailed on this page must be followed.

The X-tra bolts must be used with Nico Security Plus Hinges to meet the standard. The Deceuninck 2800 Series casement window uses hinges with a 17mm stack height.

Nico X-tra bolts must be secured to reinforcement as indicated in Fig. 1 with fasteners as listed in the Deceuninck manual for the product.

The X-tra bolt is simply installed by fixing one half to the frame 50 -100mm above the Hinge Nose cap and the other half to the sash

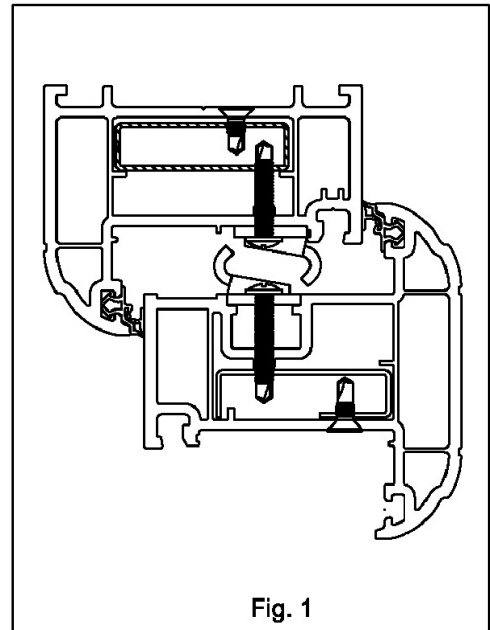
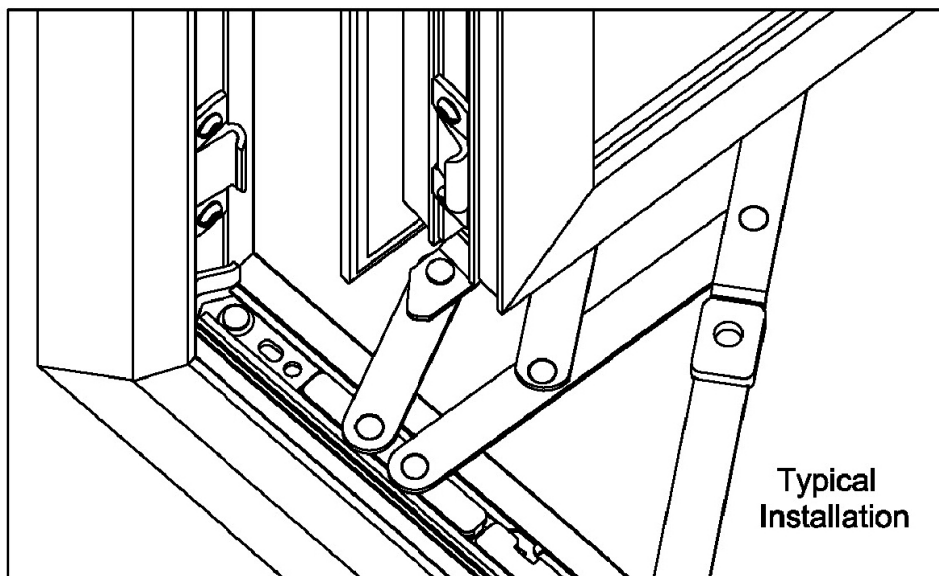


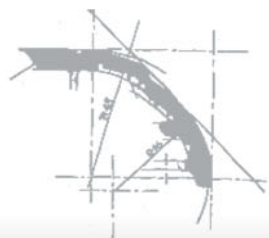
Fig. 1



Nico X-tra Bolt 17mm - Part No. 8100 0 17 44 (Silver) - 8100 0 17 34 (Yellow)

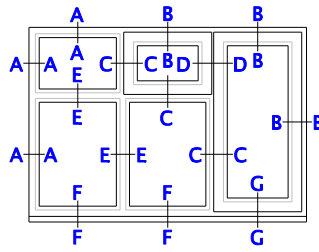
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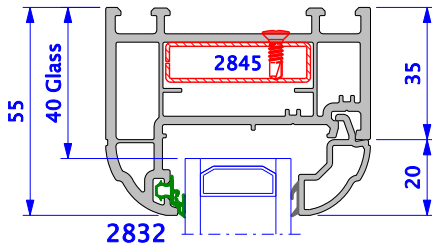




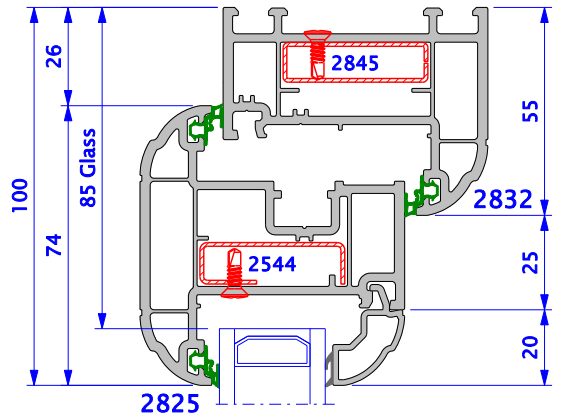
Sections  
Casement Window  
Internally Beaded  
Small Outer Frame



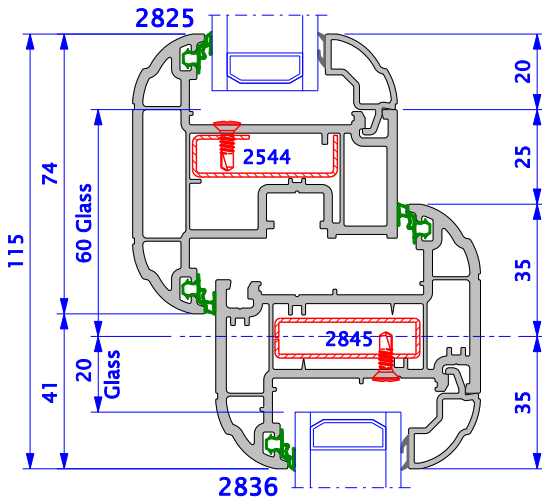
Section A-A



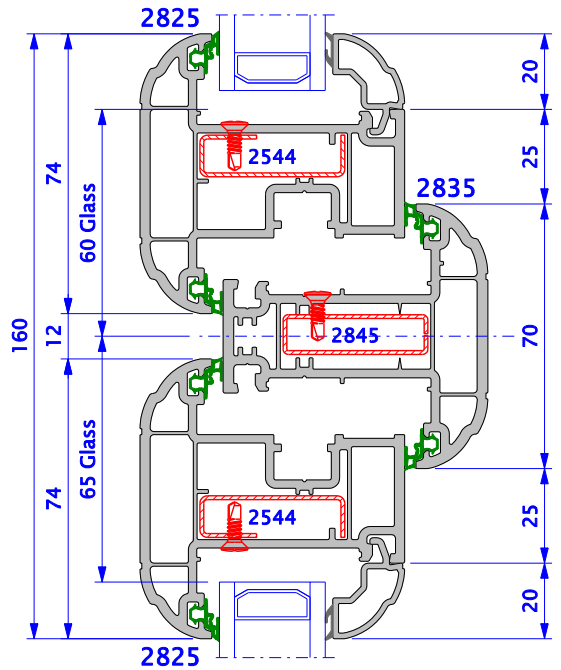
Section B-B



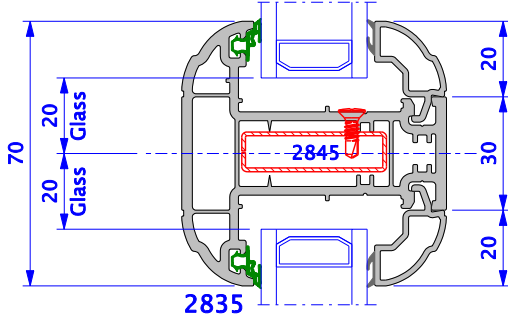
Section C-C



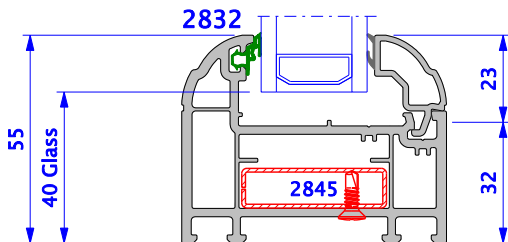
Section D-D



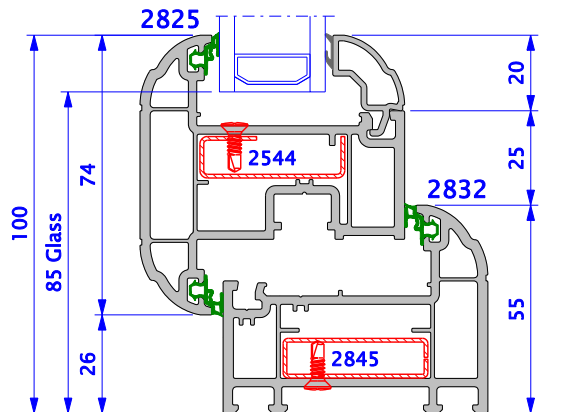
Section E-E



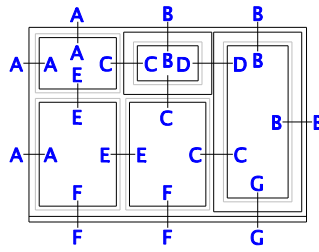
Section F-F



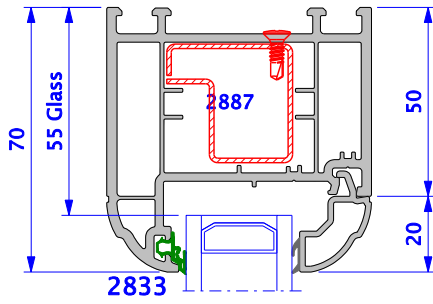
Section G-G



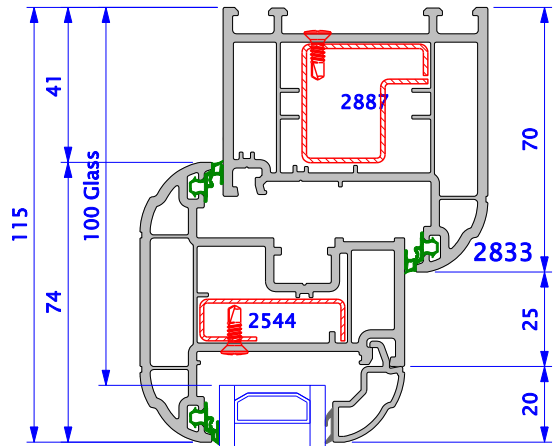
Sections  
Casement Window  
Internally Beaded  
Large Outer Frame



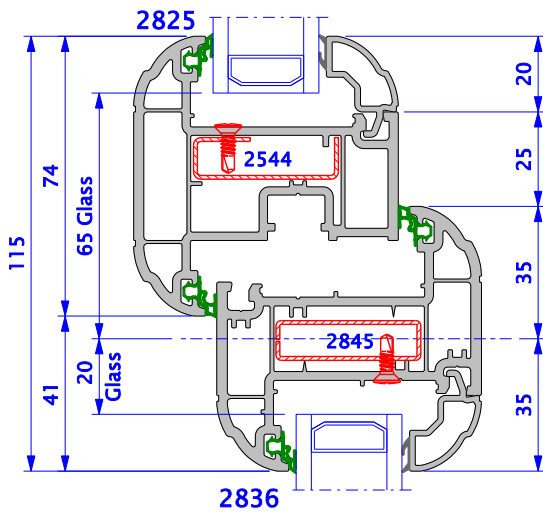
Section A-A



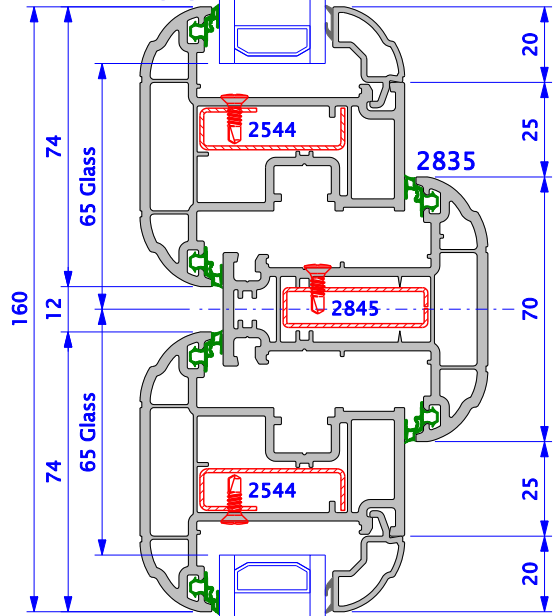
Section B-B



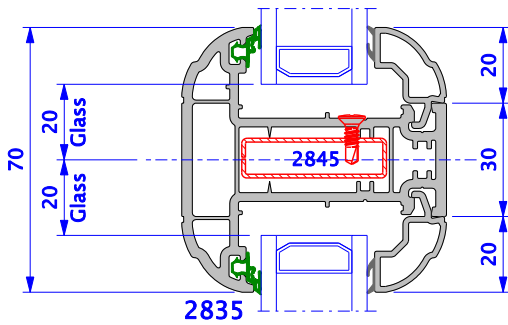
Section C-C



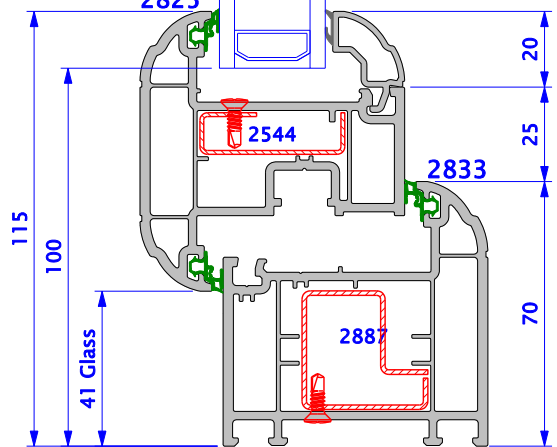
Section D-D



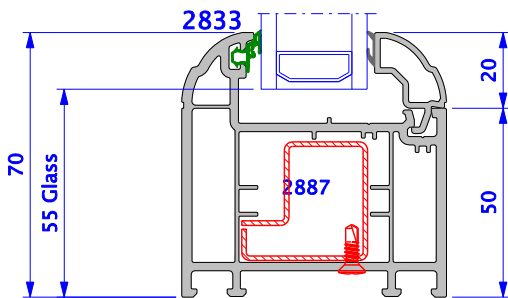
Section E-E



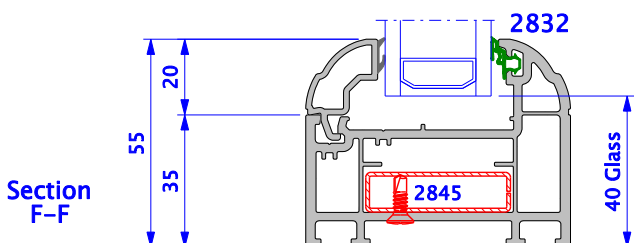
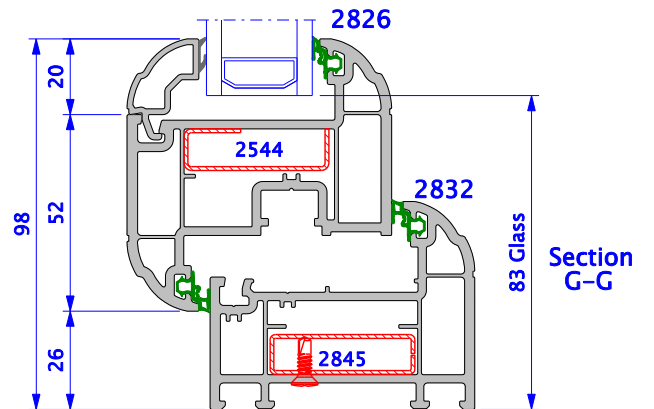
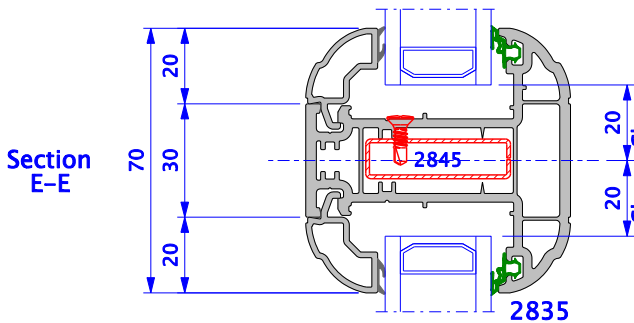
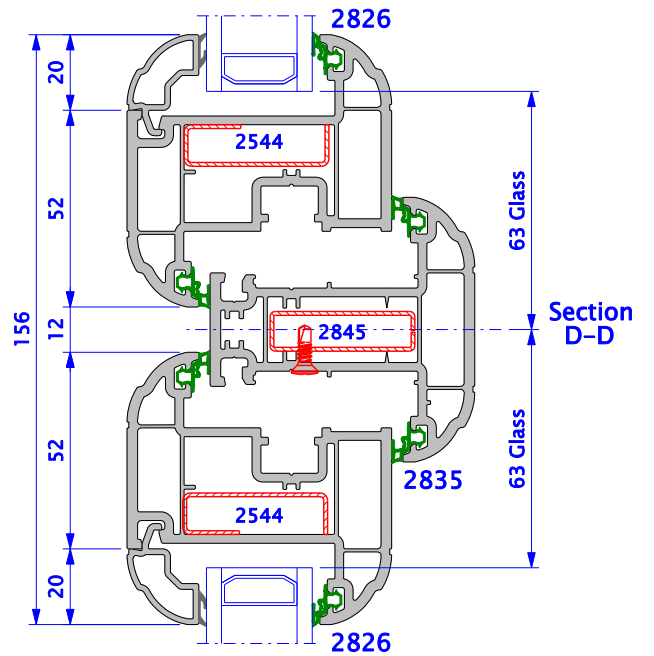
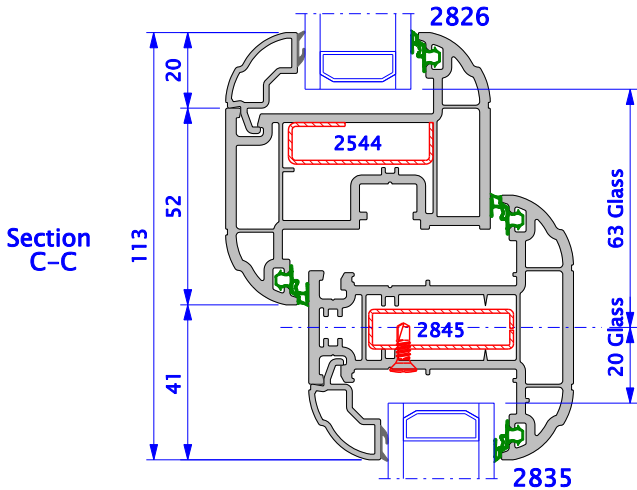
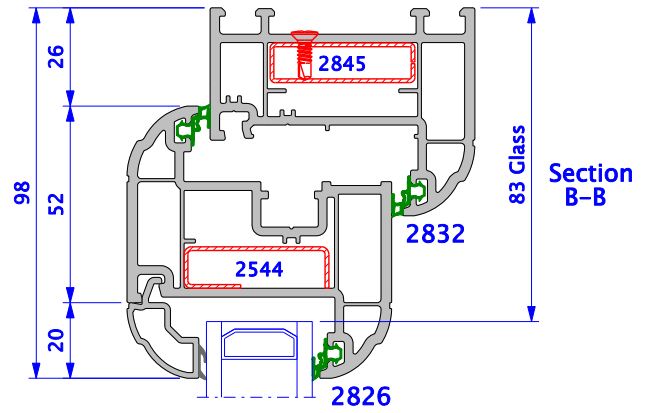
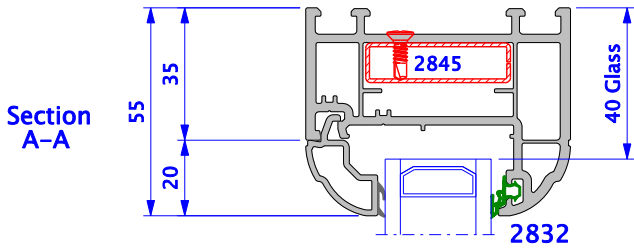
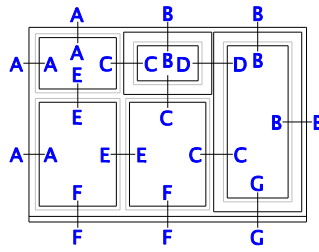
Section G-G



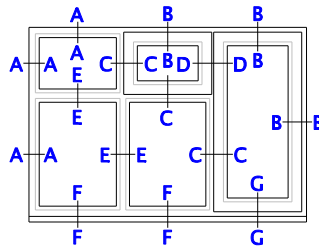
Section F-F



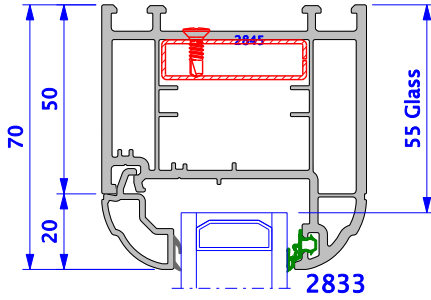
**Sections**  
**Casement Window**  
**Externally Beaded**  
**Small Outer Frame**



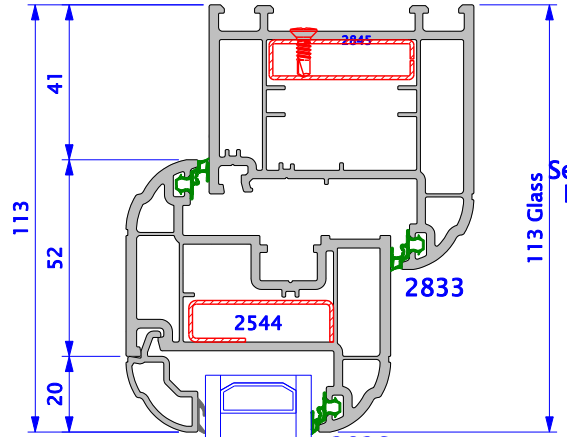
**Sections**  
**Casement Window**  
**Externally Beaded**  
**Large Outer Frame**



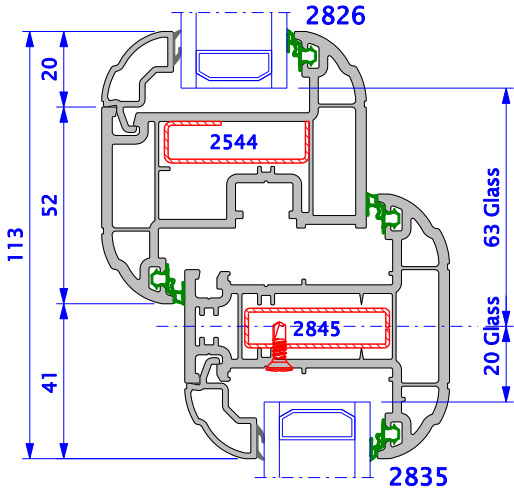
Section A-A



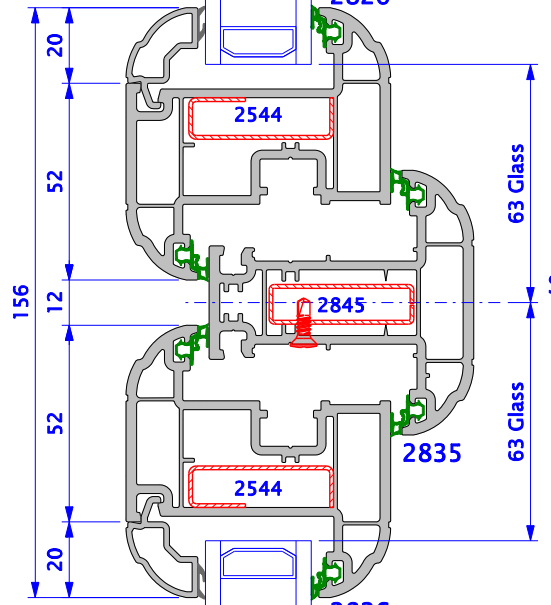
Section B-B



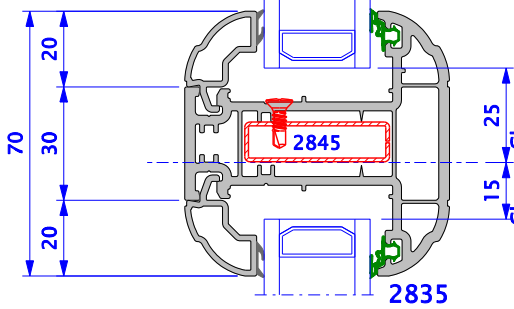
Section C-C



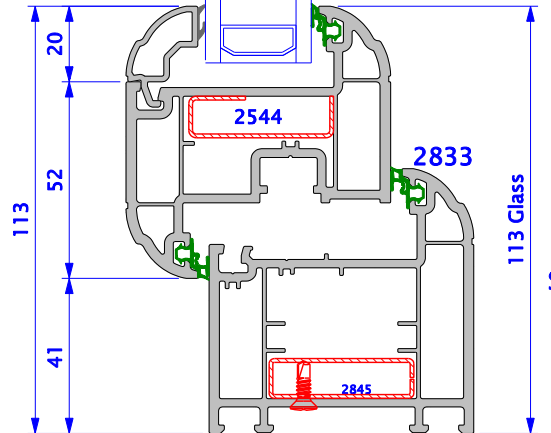
Section D-D



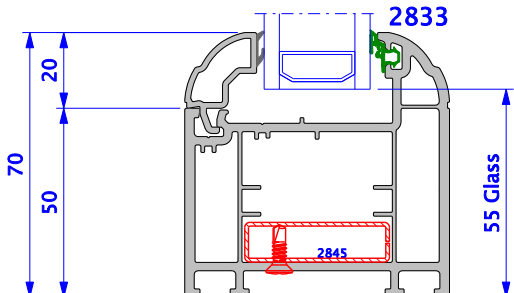
Section E-E



Section G-G

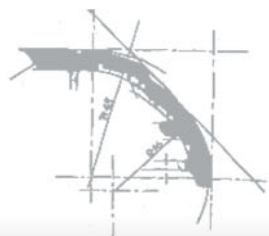


Section F-F

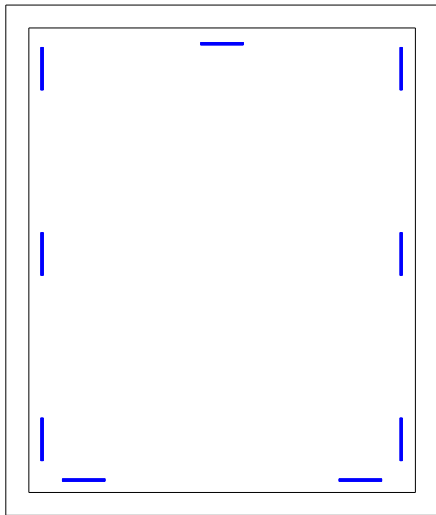


# BS7950

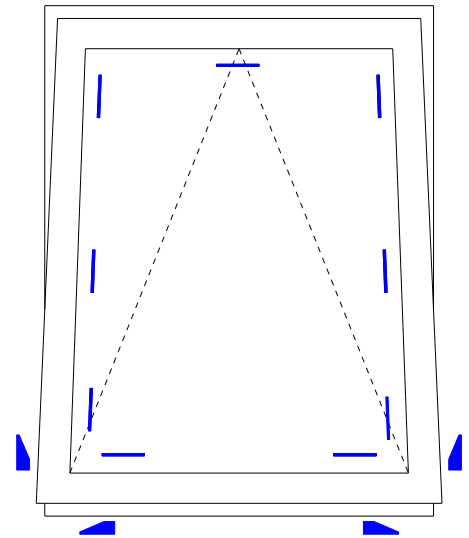
GENERAL STATEMENT  
LIST OF SCREW TYPES  
PROFILE GUIDE  
HARDWARE PARTS LIST  
FITMENT OF HARDWARE  
GENERAL ARRANGEMENTS  
**GLAZING**



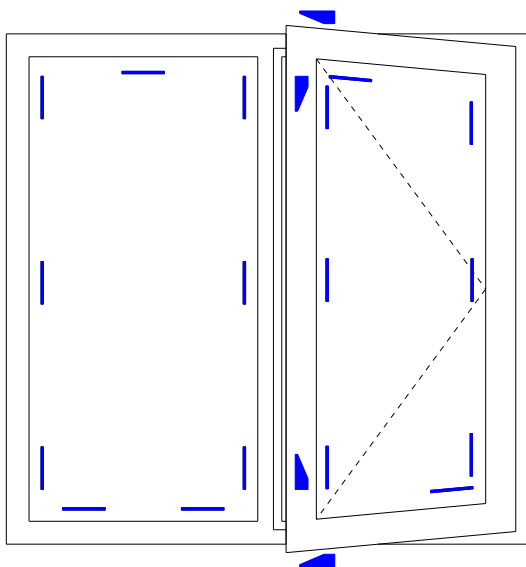
These diagrams are intended as guidelines only.  
 Glazing packers should have maximum centres of 500mm and be a maximum of 150mm from corner of unit.  
 The number of vertical packers is relative to the window height (with a minimum of 2 per side).  
 Deceuninck also recommend the positioning glazing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



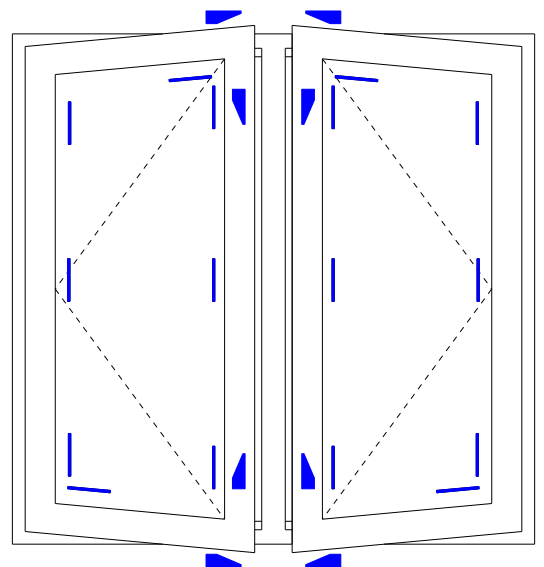
FIXED LIGHTS



TOP HUNG



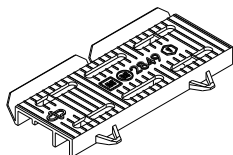
SIDE HUNG NEXT TO FIXED



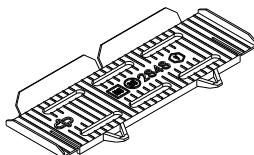
SIDE HUNG NEXT TO SIDE HUNG

— GLAZING BLOCKS

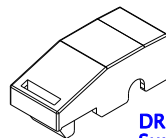
▲ ANTI-JEMMY/  
LIFTING WEDGE



2848  
(for use at sides of glazing only)



2849  
(for use below glazing only)



DRB001  
Supplier details:  
Window Widgets  
(01452) 300912

Externally glazed glass lock system by GT Windows.  
 2 glass locks should be positioned on each vertical member.  
 Position lock approximately 100mm from either corner for optimum performance.



Cedar Farm,  
 New Road, Southam,  
 Cheltenham, Glos  
 GL52 3NX

T 01242 527260  
 F 01242 527262  
 M 07850 228679

E grahamgtwindows@btinternet.com

## SECURI-CLIP

**SECURI-CLIP** is a patented glass retention system which, when fitted in the appropriate numbers and position, assists internally and externally beaded windows and doors to meet the requirements of BS7412, 7950 and PAS 23/24. (see system test reports)

The clip set assembly is comprised of a baseplate, a clip sized to suit the sealed unit thickness and a buffer to prevent contact between glass and clip. A profile related colour coded packer is available to adapt the base when required for recessed profile.

**SECURI-CLIP** may be used on PVCu, Aluminum or Timber windows and doors.

Assembly into a window or door frame is quick and easy either for on site glazing or factory glazing, which ever suits your own requirements.

The operation of de-glazing is simplified by using a designated key.

