SECTION 1
COMAR 9 P.i HIGH PERFORMANCE
LADDER FRAME SYSTEM

SECTION 2
COMAR 9 P.i HIGH PERFORMANCE
MITRE FRAME SYSTEM

SECTION 3
COMAR 9 P.i HIGH PERFORMANCE
CASEMENT WINDOW SYSTEM
TOP/SIDE HUNG/PROJECTED WINDOWS

SECTION 4
COMAR 9 P.i HIGH PERFORMANCE
TILT-TURN WINDOW SYSTEM
BOTTOM/SIDE OPEN-IN WINDOWS. FRENCH DOORS

SECTION 5
COMAR 9 P.i HIGH PERFORMANCE
DOOR SYSTEM
OPEN-IN, OPEN-OUT SINGLE/DOUBLE DOORS

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OCTOBER 2020

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SECTION 3
COMAR 9Pi HIGH PERFORMANCE CASEMENT WINDOW SYSTEM
TOP/SIDE HUNG PROJECTED WINDOW

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SECTION 3
COMAR 9Pi HIGH PERFORMANCE CASEMENT WINDOW SYSTEM
TOP/SIDE HUNG PROJECTED WINDOW

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COMAR 9 Pi - CASEMENT WINDOWS

Thermally broken casement window system with top hung, side hung and bottom hung configurations, double/thriple glazed, externally beaded. The system has been developed for domestic and commercial applications with two options of thermal properties for the profiles and fully integrates with the other Comar 9 systems.

Comar 9 Pi Casement window system has been successfully tested to requirements of BS7950 and BS6375: Air permeability: 600Pa; Water tightness 900Pa; Wind resistance: 2000Pa.

SPECIFICATION

The Comar Windows Casement System is designed to conform to BS4873 and other recognised industry standards adopted by CWCT and trade associations i.e. The Council for Aluminium in Building.

MATERIALS

Extruded aluminium profiles are of aluminium alloy 6063 T5 or T6 and comply with the recommendations of BS EN 12020-2:2001 and BS 755-9:2001. Gaskets are extruded from E.P.D.M to BS 4255-1 and P.V.C. to BS7412.

Thermal breaks are formed with polyamide strips PA 6.6 25 reinforced with glass fibre.

FINISHES

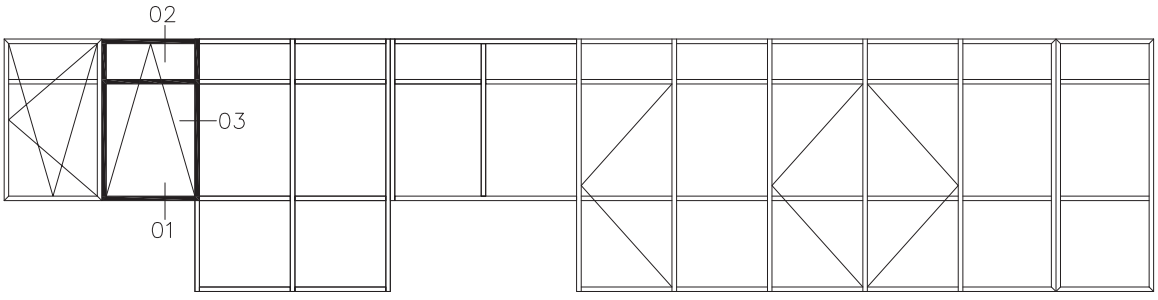
Aluminium profiles are finished to the following specifications. Silver, bronze and black anodising to BS EN 12373 or BS 3987. Liquid organic coating to BS 4842. Polyester powder coating to BS 6496 and can be dualed coloured.

CONSTRUCTION

Fixed lights are constructed from mitre-cut framing sections, utilising mechanical cleats. Mullions and transoms can then be inserted using screws fixing into pre-formed screw ports. Brackets are available for cruciform situation. Sashes are assembled form mitre-cut profile, utilising mechanical cleats. The assembled opening light is then fixed directly to the frame.

GLAZING

Windows are internally glazed with glazing thickness from 17mm to 62mm. Glazing should conform to BS 6262 and Document 'N'. Glazing beads are all square cut for ease of installation.



SYSTEM		PAGE No.`s		PAGE SUB TITLE
01 CW	-	2.01 - 2.22	-	SILL DETAILS
02 CW	-	2.23 - 2.35	-	HEAD DETAILS
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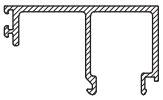
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comar9Pi

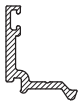
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FRAMING, WINDOWS, DOORS

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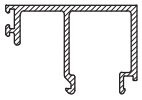
SUB TITLE **CASEMENT WINDOWS**
BROADSHEET - PROFILES



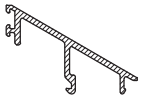
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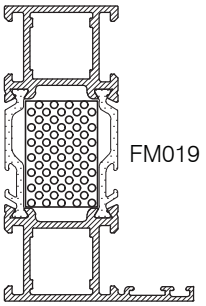
CS795
GLAZING BEAD



CS925
GLAZING BEAD 23-29mm

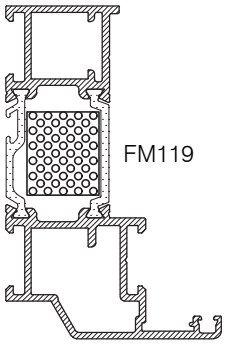


CS995
GLAZING BEAD 23-29mm



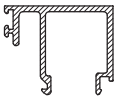
FM019

CS931
30mm OUTER FRAME

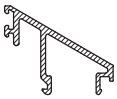


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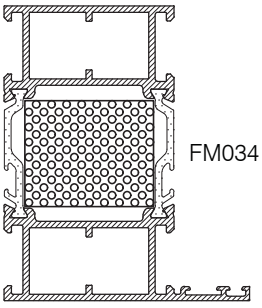
CS934
30mm OUTER FRAME.
OPEN OUT VENT



CS926
GLAZING BEAD 29-35mm

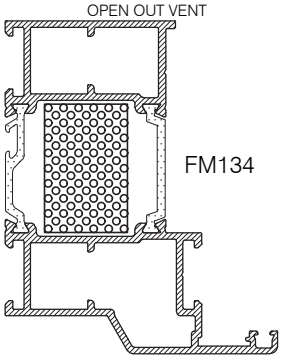


CS996
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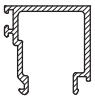
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CS932
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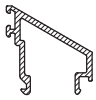


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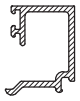
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45mm OUTER FRAME.
OPEN OUT VENT



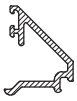
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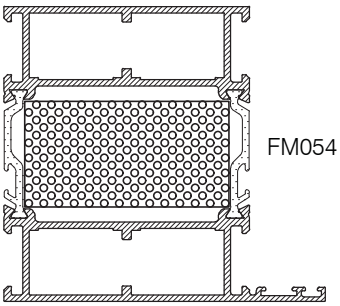
CS5927
GLAZING BEAD 35-41mm



CS928
GLAZING BEAD 41-47mm

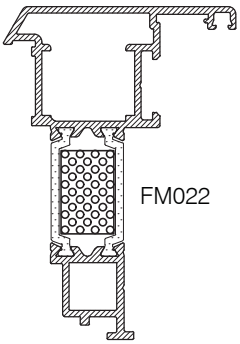


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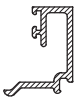
FM054

CS933
65mm OUTER FRAME

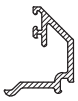


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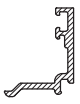
CS906
REVERSE ADAPTOR.
OPEN OUT VENT



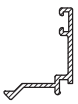
CS929
GLAZING BEAD 47-53mm



CS5929
GLAZING BEAD 47-53mm



CS930
GLAZING BEAD 53-62mm



CS427
EXTERNAL GLAZING BEAD



CS083
DRIP SECTION



CS583
DRIP SECTION

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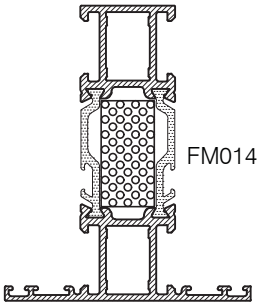
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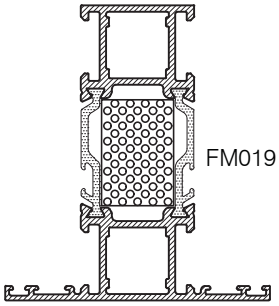
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FRAMING, WINDOWS, DOORS

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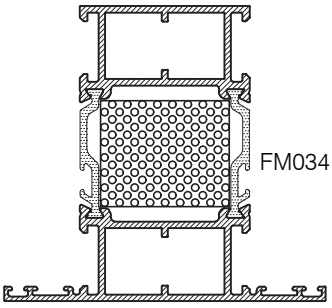
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CASEMENT WINDOWS
BROADSHEET - PROFILES



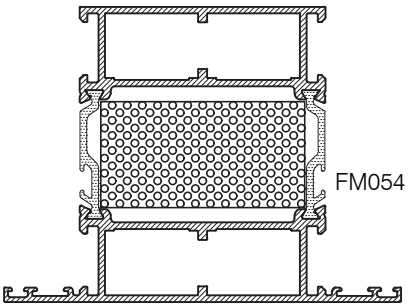
CS940
25mm TRANSOM/MULLION



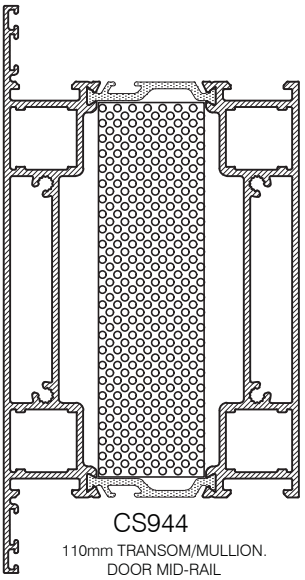
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30mm TRANSOM/MULLION



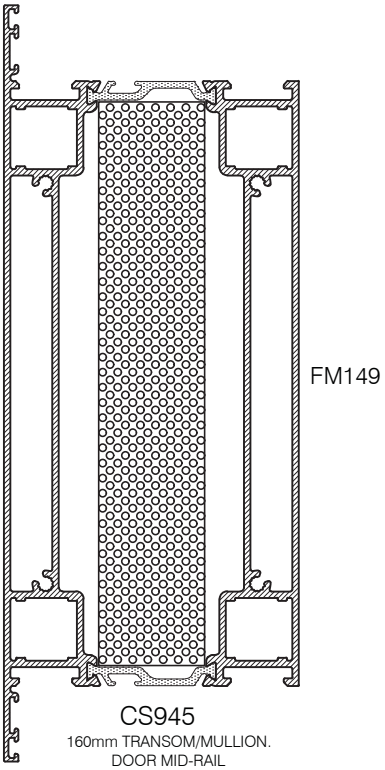
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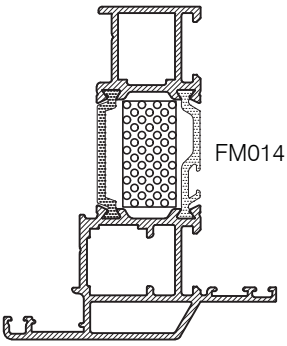
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65mm TRANSOM/MULLION



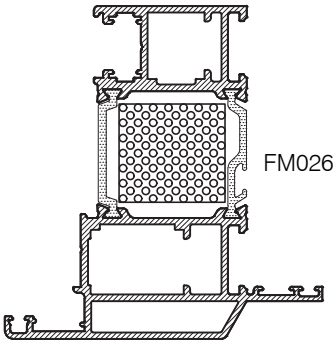
CS944
110mm TRANSOM/MULLION.
DOOR MID-RAIL



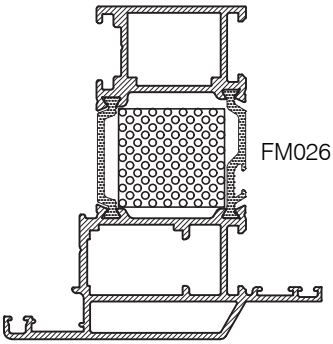
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DOOR MID-RAIL



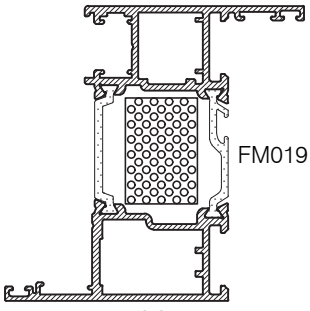
CS955
72mm CASEMENT.
COCKSPUR LOCKING



CS956
84mm CASEMENT.
ESPAG LOCKING / SHOOTBOLT



CS957
84mm CASEMENT.
COCKSPUR / PERIMETER LOCKING



CS959
EXTERNALLY BEADED
CASEMENT VENT SHOOTBOLT

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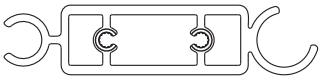
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TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

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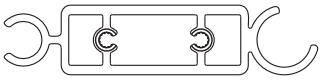
SUB TITLE
CASEMENT WINDOWS
BROADSHEET - SUB SILL SECTION

WS869XKIT



SUB SILL CLEAT
(2 x 17.2 / 2 x 11.7)
FOR USE WITH CS890 SUB SILL

WS870XKIT



SUB SILL CLEAT
(2 x 17.2 / 4 x 11.7)
FOR USE WITH CS894 & CS898
SUB SILL

CS588

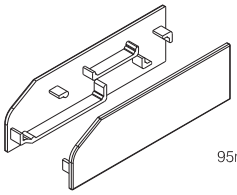


52mm SUB SILL NOSING

CS590



80mm SUB SILL NOSING



EC890
95mm SILL END CAP

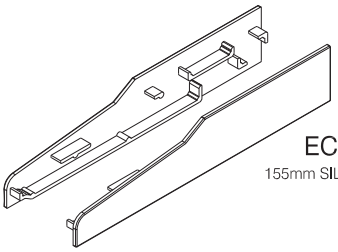


EC541
SUB SILL NOSING
END CAP

CS592

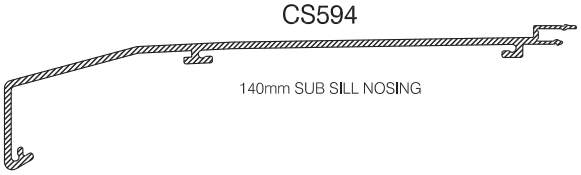


110mm SUB SILL NOSING

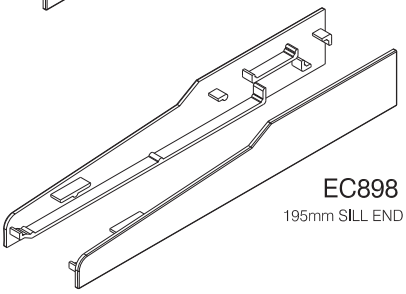


EC894
155mm SILL END CAP

CS594



140mm SUB SILL NOSING



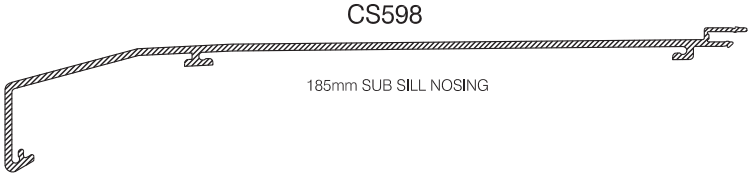
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195mm SILL END CAP

CS596



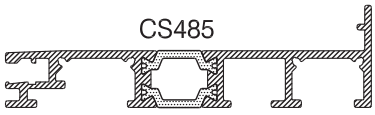
160mm SUB SILL NOSING

CS598



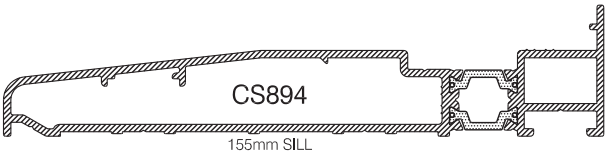
185mm SUB SILL NOSING

CS485



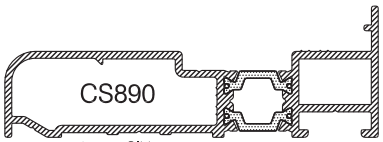
FRAMEWORK SUB SILL (T.B.)

CS894



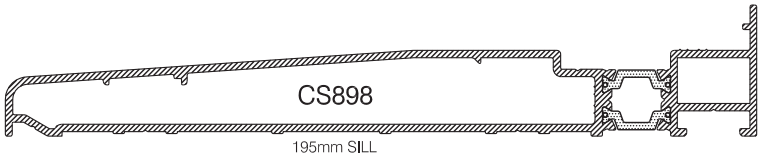
155mm SILL

CS890



95mm SILL

CS898



195mm SILL

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SCALE	1: 2 @ A4
DATE	10–04–2010
DRAWN	OP / CAD
DRG. No.	C9–Pi–PF–CW 1.04

comar9Pi

TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No. **1.05**

SUB TITLE
CASEMENT WINDOWS
BROADSHEET - ACCESSORIES

GK422

2mm ARROW HEAD GASKET BLACK STRIP

GK425

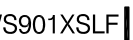
5mm ARROW HEAD GASKET BLUE STRIP

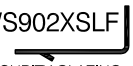
GK841

WEATHER SEAL GASKET

GK940

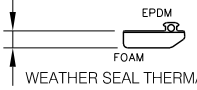
CENTRE SEAL

WS901XSLF

SECURITY GLAZING CLIP 24mm

WS902XSLF

SECURITY GLAZING CLIP 28mm

WS903XSLF

SECURITY GLAZING CLIP 32mm

4.5 GK5441


WEATHER SEAL THERMAL GASKET

GK906

6mm GLAZING WEDGE

GK908

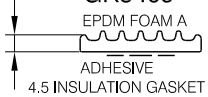
8mm GLAZING WEDGE

GK910

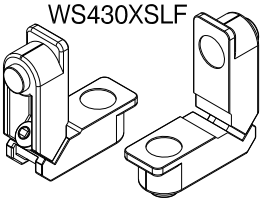
10mm GLAZING WEDGE

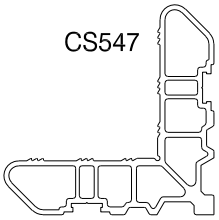
GK941

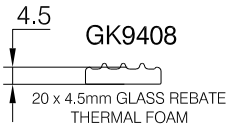
WEATHER SEAL

4.5 GK5409


4.5 INSULATION GASKET

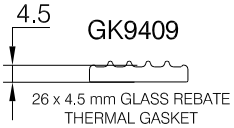
WS430XSLF

MECHANICAL CLEAT FOR CS931/CS932/CS950

CS547

CRIMP CLEAT FOR CS906, CS933, CS956, CS957, CS943

4.5 GK9408

20 x 4.5mm GLASS REBATE THERMAL FOAM

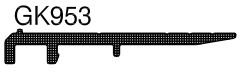
GK951

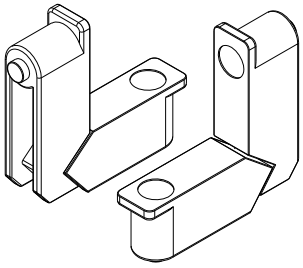
GLAZING SUPPORT

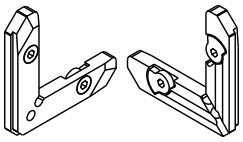
4.5 GK9409

26 x 4.5 mm GLASS REBATE THERMAL GASKET

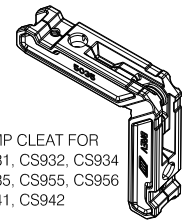
GK952

GLAZING SUPPORT

GK953

GLAZING SUPPORT

WS337XSLF

MECHANICAL CLEAT FOR CS933 / CS951

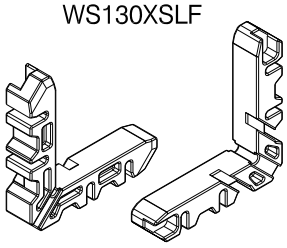
WS416XSLF

ALIGNMENT SQUARE

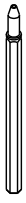
WS7002XSLF

CRIMP CLEAT FOR CS931, CS932, CS934 CS935, CS955, CS956 CS941, CS942

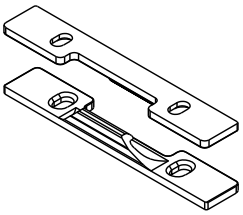
CRIMP CLEAT

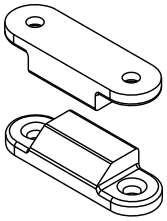
FX048XSLF

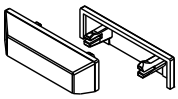
RIVET FOR DRIP

WS130XSLF

MECHANICAL CLEAT FOR CS906

WS092XSLF

PIN FOR WS130XSLF

LK817XSLF

16mm EXCLUDER

WS564EWHT

LIFTING WEDGES

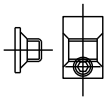
WS023EWHT / WS023DBLK

DRAINAGE CAP

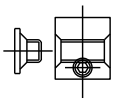
WS015XSLF

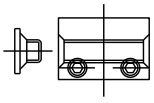
CHEVRON

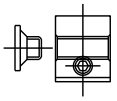
WS916XSLF

ALIGNMENT FOR TRANSOM / MULLION

WS907XKIT

10,5mm CLEAT (FOR CS940)
1 x M5x10mm GRUB SCREW
1 x M6x7mm CSK SCREW

WS908XKIT

14,5mm CLEAT (FOR CS942)
1 x M5x10mm GRUB SCREW
1 x M6x7mm CSK SCREW

WS909XKIT

24mm CLEAT (FOR CS943)
2 x M5x10mm GRUB SCREW
1 x M6x7mm CSK SCREW

WS918XKIT

14,5mm CLEAT (FOR CS941,CS944,CS945)
1 x M5x10mm GRUB SCREW
1 x M6x7mm CSK SCREW

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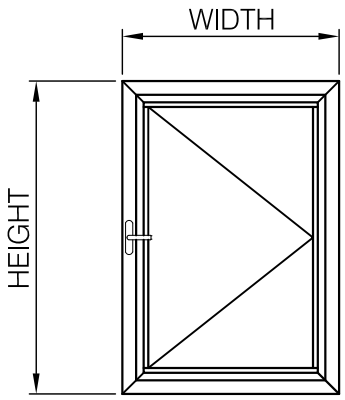
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DRAWN	NRA/BB
DRG. No.	C9-Pi-PF-CW 1.05 R4

NOTE: VENTS OF 100 KG MUST BE FITTED WITH CAM ADJUSTMENT DEVICES, WHICH ARE OPTIONAL ON LIGHTER VENTS. SEPARATE RESTRICTORS, VENT HOLDING DEVICES OR AN OPERATING MECHANISM MAY BE REQUIRED TO HOLD LARGE VENTS IN A SELECTED VENTILATION POSITION AGAINST VARIABLE WIND PRESSURE.

RESTRICTORS:
- HN013XSLF
- HN014XSLF
- HN015XSLF
- HN016XSLF
- HN018XSLF
- HN020XSLF

NOTE: WHEN USING RESTRICTORS, CHECK FIT BY MAKING TEST SAMPLE



HINGE TYPE	HINGE REF.	HINGE SIZE, in/mm	MINIMUM WIDTH*, mm	MINIMUM HEIGHT*, mm	MAXIMUM WIDTH*, mm	MAXIMUM HEIGHT*, mm	MAXIMUM WEIGHT**,kg
DEFENDER							
TOP/PROJ CS955/ CS956/ CS957/ CS959	HN025XSLF	12"/310	-	350	-	550	20
	HN026XSLF	16"/412	-	500	-	780	21
	HN027XSLF	20"/513	-	700	-	1100	26
	HN028XSLF	24"/615	-	850	-	1300	40
SIDE/PROJ CS955/ CS956/ CS957/ CS959	HN022XSLF	12"/310	300	-	600	-	22
	HN021XSLF	16"/412	400	-	700	-	24
DEFENDER PLUS							
SIDE/PROJ CS955/ CS956/ CS957/ CS959	HN516XSLF	16"/412	400	-	1000	-	40
DEFENDER EGRESS							
SIDE/PROJ CS955/ CS956/ CS957/ CS959	HN038XSLF	12"/310	300	-	600	-	22
	HN039XSLF	16"/413	400	-	700	-	24
STERLING							
TOP/PROJ CS955/ CS956/ CS957/ CS959	HN505XSLF	22"/567	-	1090	-	1500	100
	HN510XSLF	10"/262	-	640	-	262	40
TOP/PROJ CS956/ CS957/ CS959	HN515XSLF	22"/567	-	1500	-	2000	100
	HN506XSLF	26"/680	-	2000	-	2500	180
SIDE/PROJ CS955/ CS956/ CS957/ CS959	HN507XSLF	10"/262	300	-	660	-	38
	HN508XSLF	16"/415	450	-	838	-	55

* Sizes shown for window vents only.
** Maximum weights determined by manufacturers hardware options.

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SCALE	NTS @ A4
DATE	04/09/18
DRAWN	NRA/BB
DRG. No.	C9-Pi-PFCW 1.06 R5

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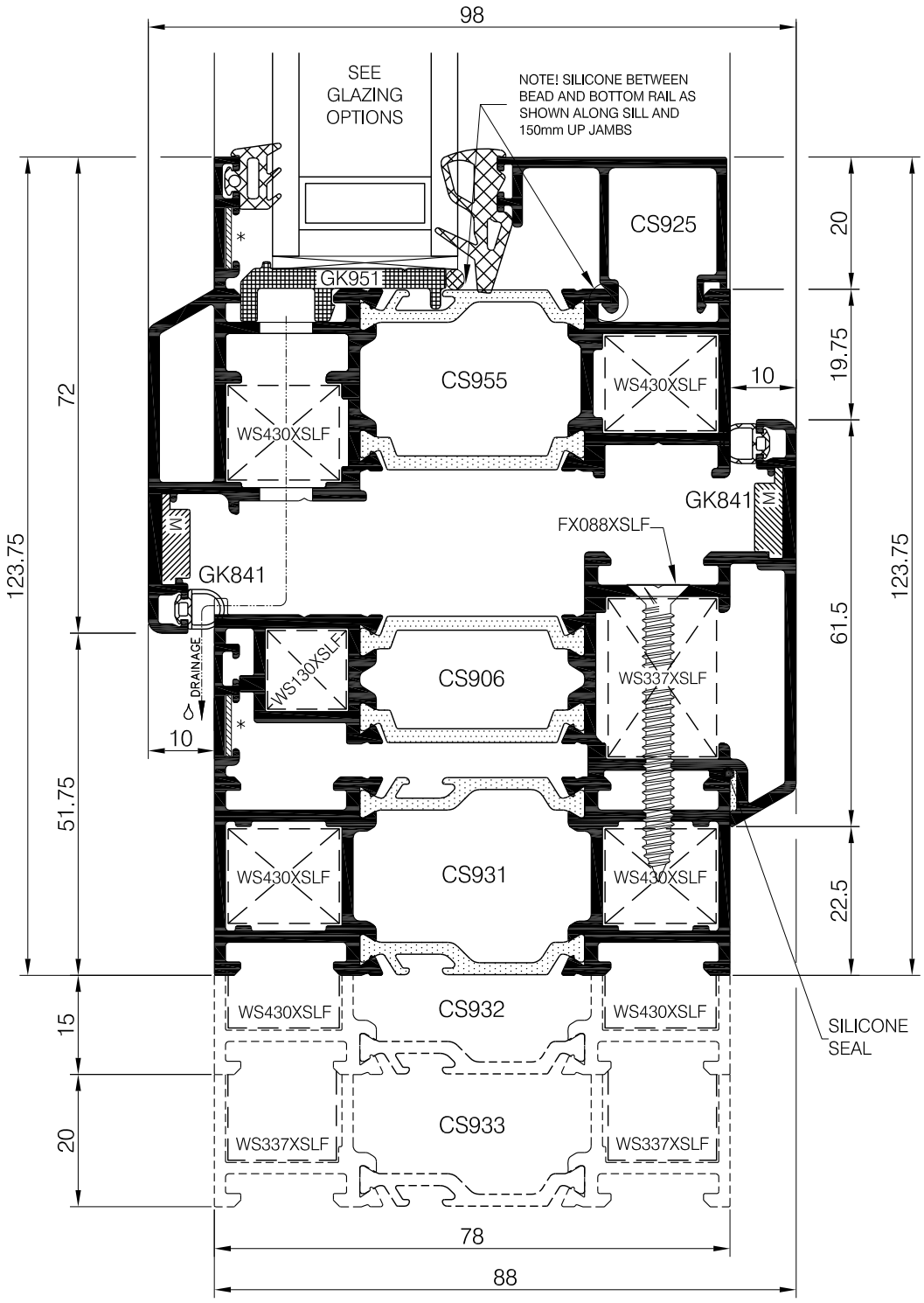
TITLE

PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No. **2.01**

SUB TITLE

CASEMENT WINDOWS
SILL DETAILS - CS955 (72mm CASEMENT) / CS906 (REV ADAP)



NOTE:

NOTCH GASKET FOR DRAINAGE (SEE PG. 3.25)

* DENOTES WS015XSLF CHEVRON

M DENOTES WS416XSLF ALIGNMENT SQUARE

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DRAWN	OP/CAD/BB
DRG. No.	C9-Pi-PF-CW 2.01R1

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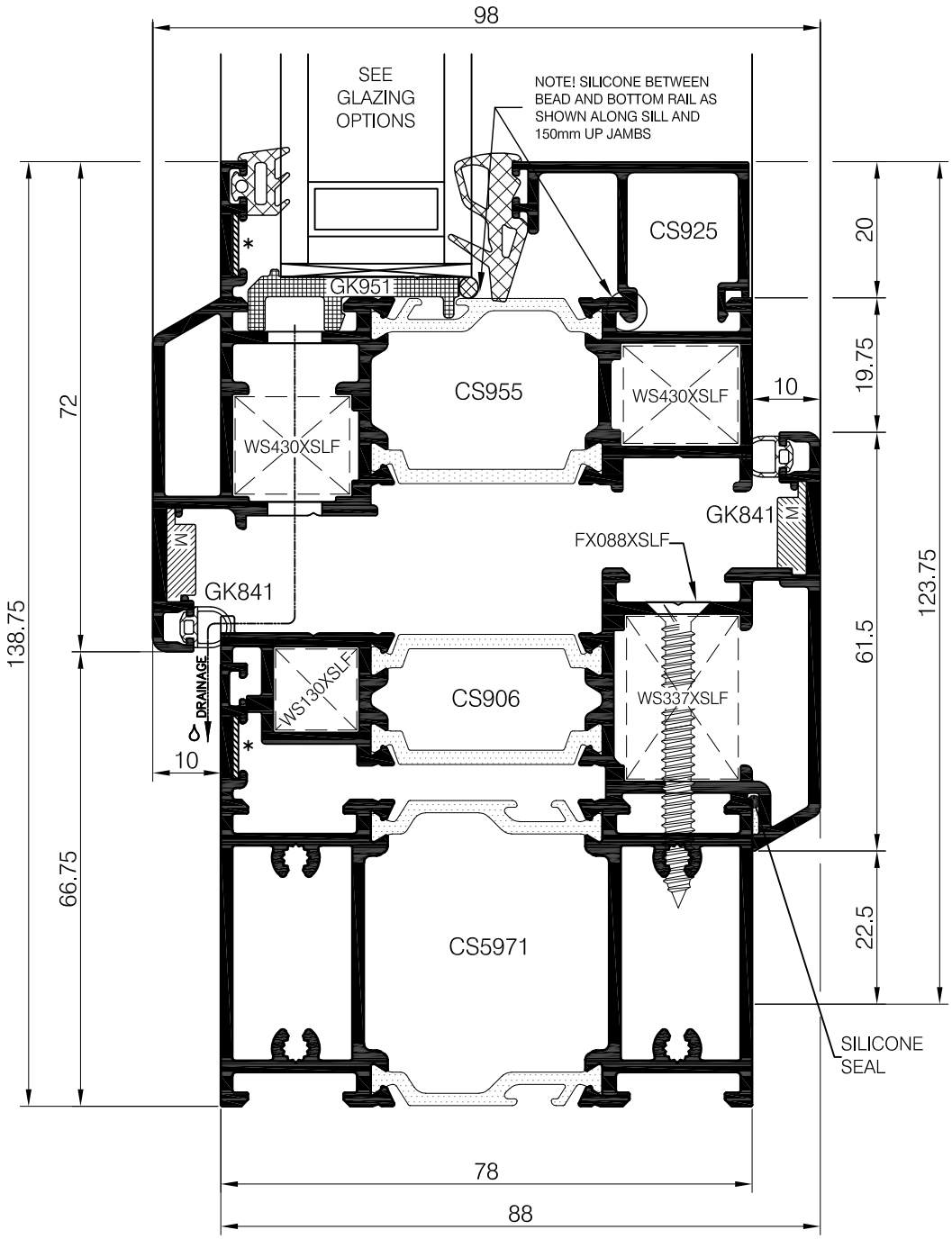
TITLE

PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No. **2.01.1**

SUB TITLE

CASEMENT WINDOWS
SILL DETAILS - CS955 (72mm CASEMENT) / CS906 (REV ADAP)



NOTE:

NOTCH GASKET FOR DRAINAGE (SEE PG. 3.25)

* DENOTES WS015XSLF CHEVRON

M DENOTES WS416XSLF ALIGNMENT SQUARE

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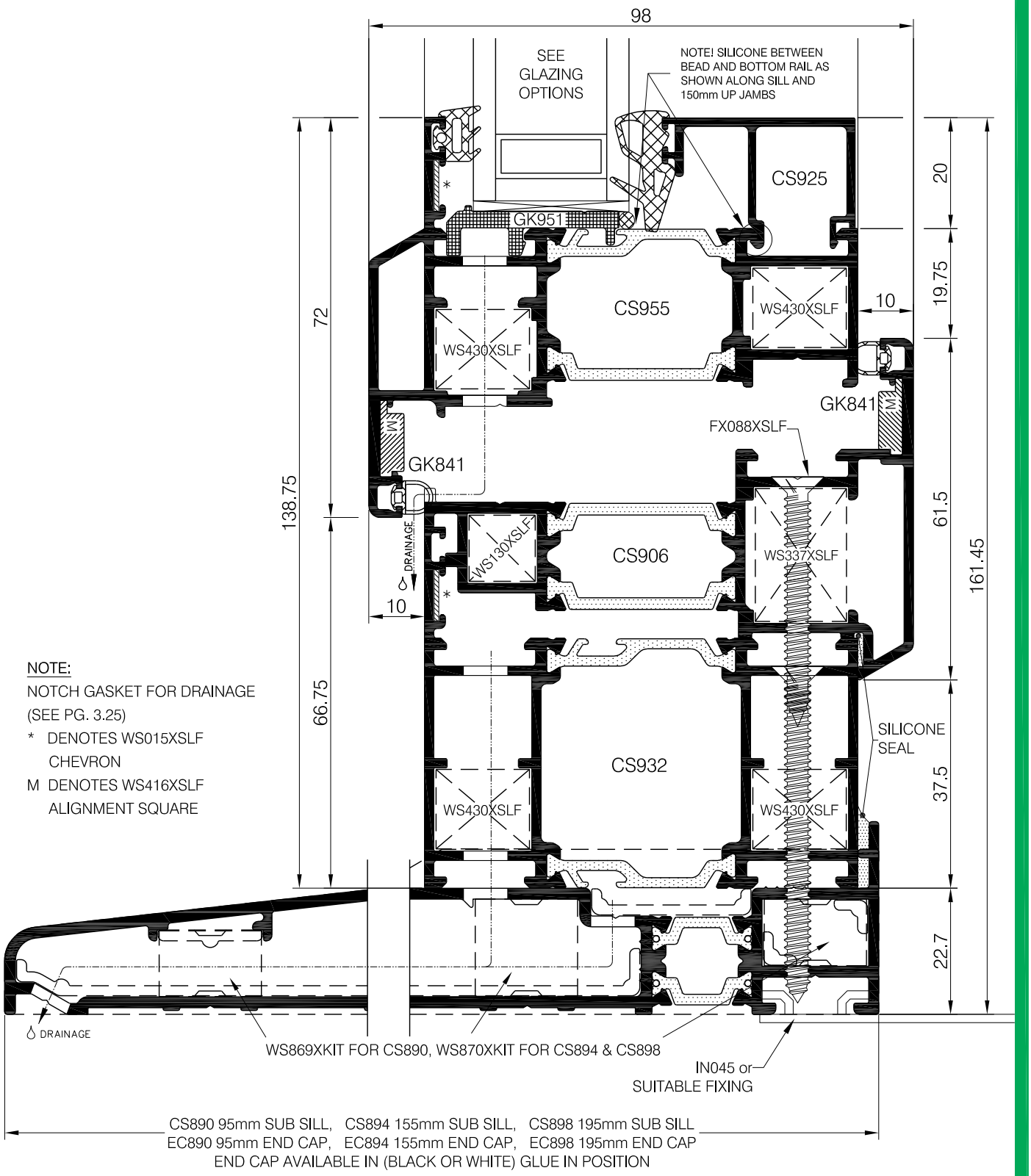
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DRG. No.	C9-Pi-PF-CW 2.01.2

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TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
2.02

SUB TITLE
CASEMENT WINDOWS
SILL WITH SUB SILL DETAILS - CS955 / CS906 / CS932



NOTE:
NOTCH GASKET FOR DRAINAGE (SEE PG. 3.25)
* DENOTES WS015XSLF CHEVRON
M DENOTES WS416XSLF ALIGNMENT SQUARE

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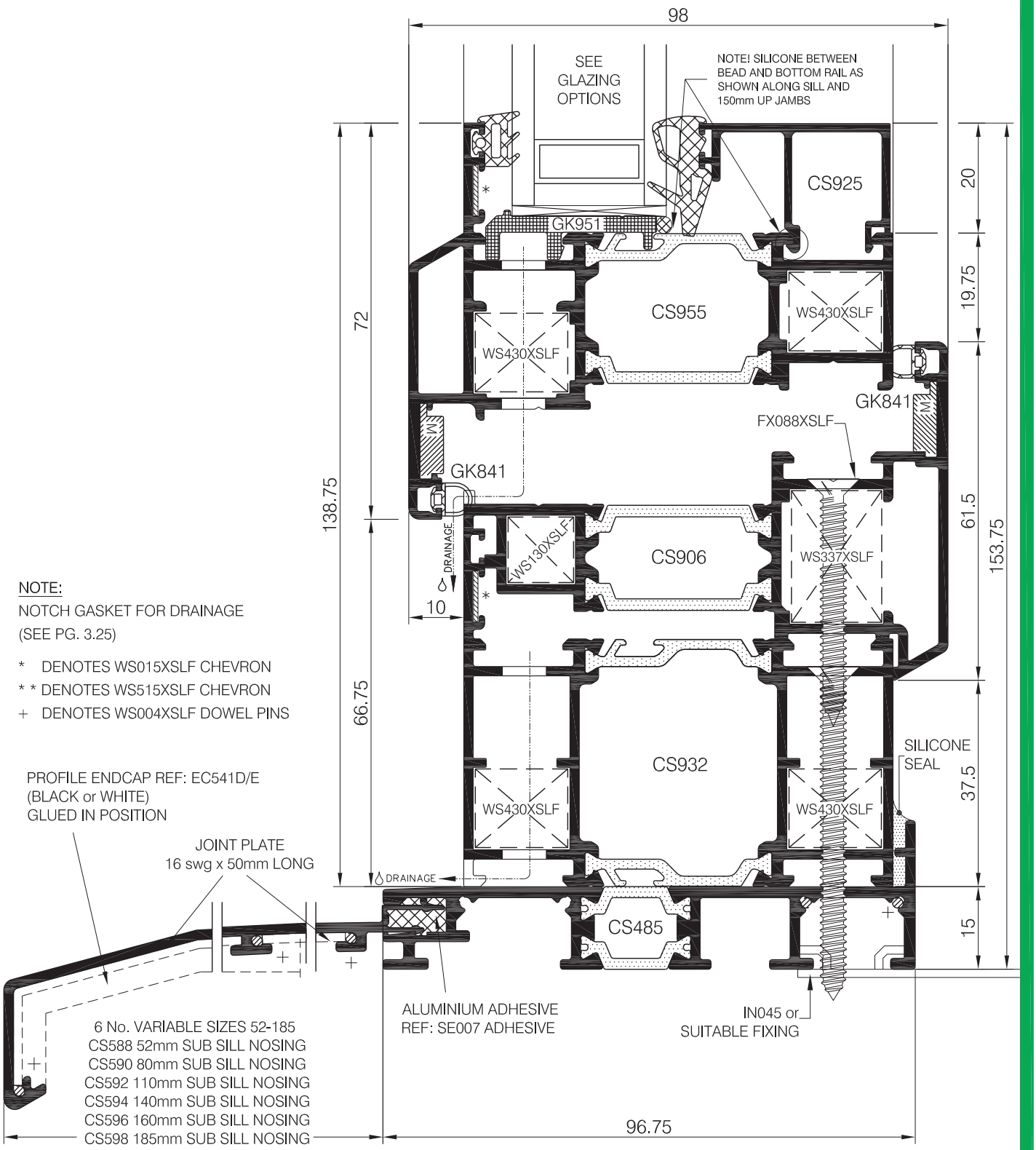
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DRG. No.	C9-Pi-PF-CW 2.02

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TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
2.03

SUB TITLE
CASEMENT WINDOWS
SILL WITH SUB SILL DETAILS - CS955 / CS906 / CS932



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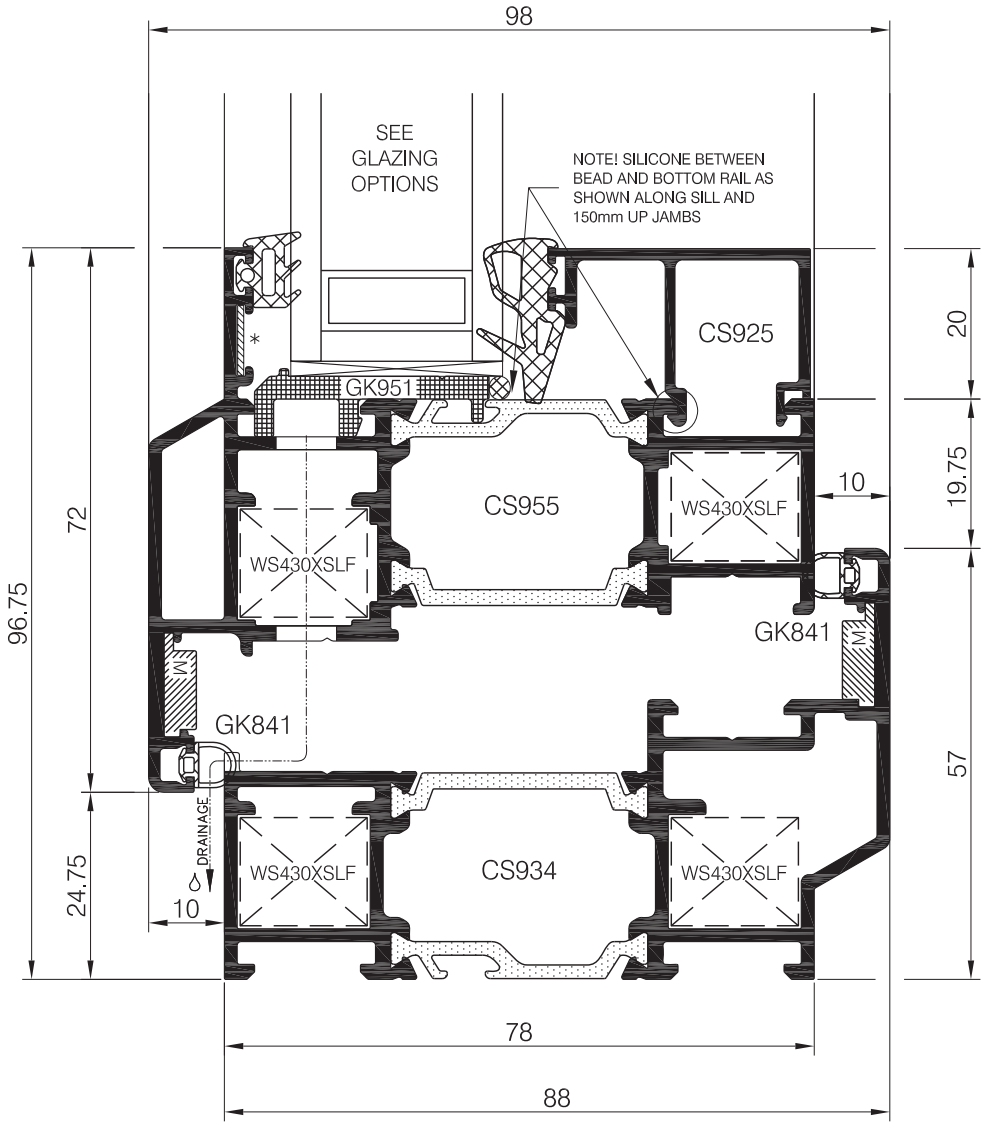
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TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
2.04

SUB TITLE
CASEMENT WINDOWS
SILL DETAILS-CS955(72mm CASEMENT)/CS934(OUTERFRAME)



NOTE:

NOTCH GASKET FOR DRAINAGE (SEE PG. 3.25)

* DENOTES WS015XSLF CHEVRON

M DENOTES WS416XSLF ALIGNMENT SQUARE

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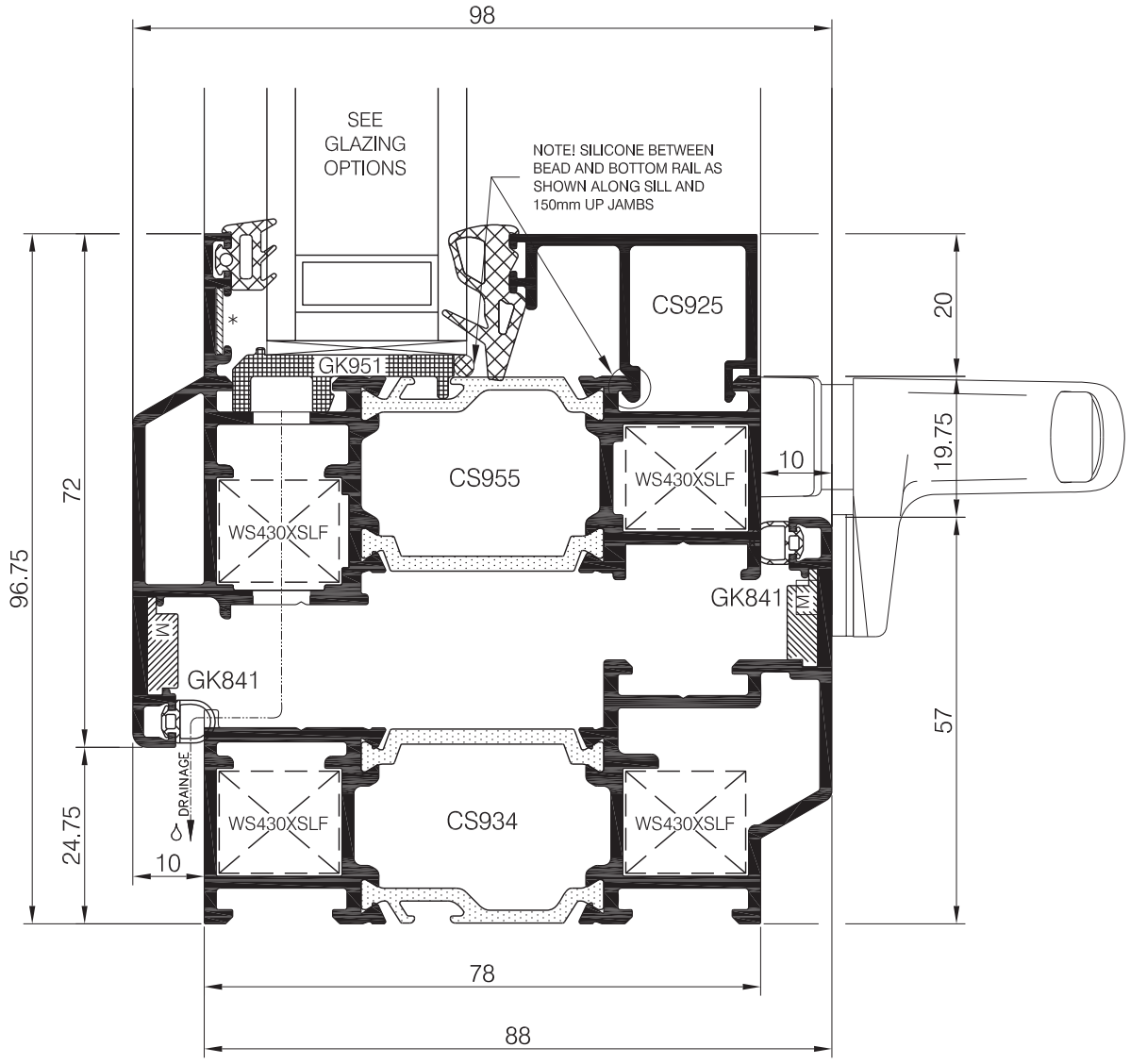
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DRG. No.	C9-Pi-PF-CW 2.04

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TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
2.05

SUB TITLE
CASEMENT WINDOWS
SILL DETAILS-CS955(72mm CASEMENT)/CS934(OUTERFRAME)



NOTE:

NOTCH GASKET FOR DRAINAGE (SEE PG. 3.25)

* DENOTES WS015XSLF CHEVRON

M DENOTES WS416XSLF ALIGNMENT SQUARE

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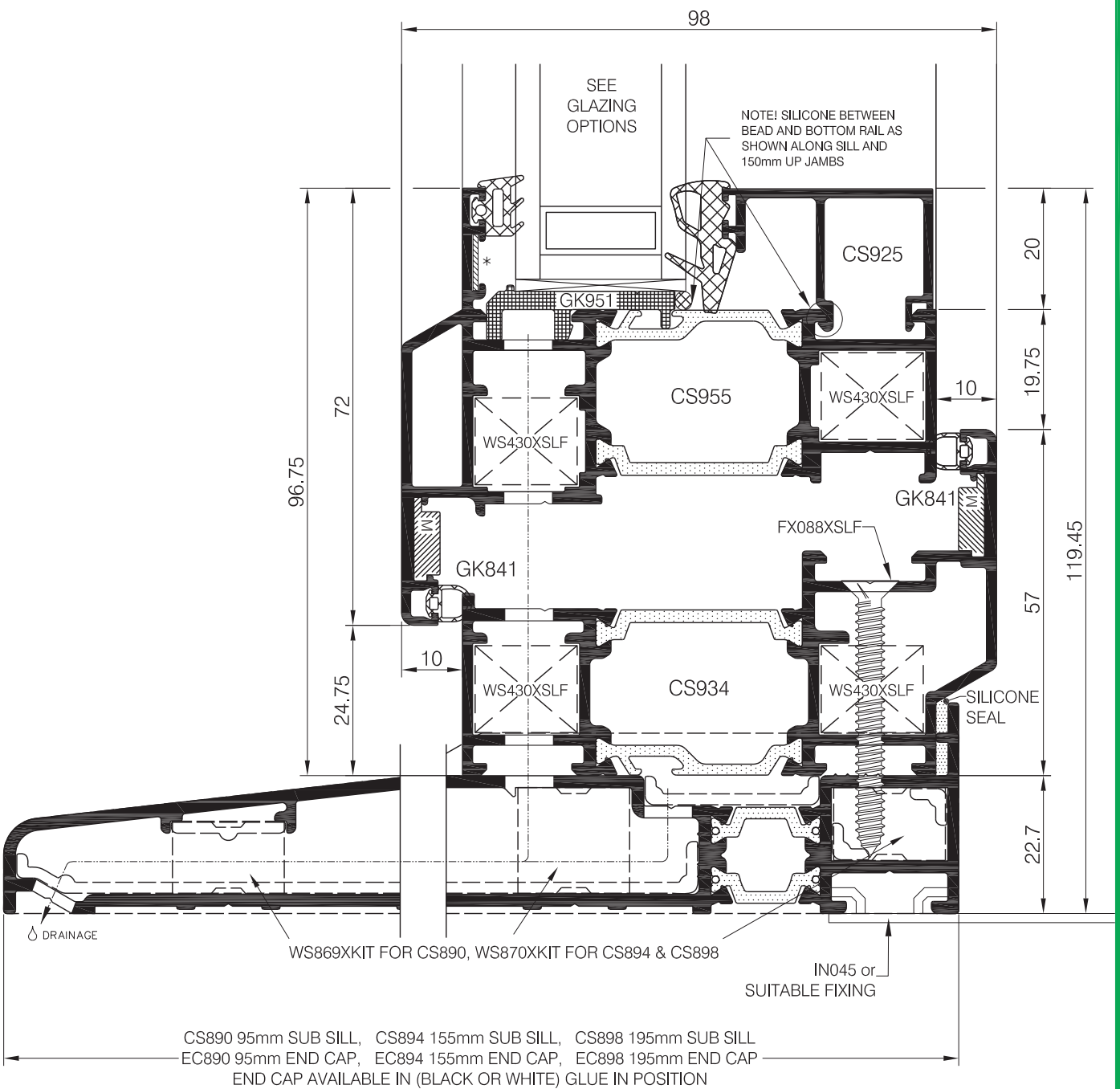
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comar9Pi

TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
2.06

SUB TITLE
CASEMENT WINDOWS
SILL WITH SUB SILL DETAILS-CS955(72mm CASEMENT)/CS934



* DENOTES WS015XSLF CHEVRON

M DENOTES WS416XSLF ALIGNMENT SQUARE

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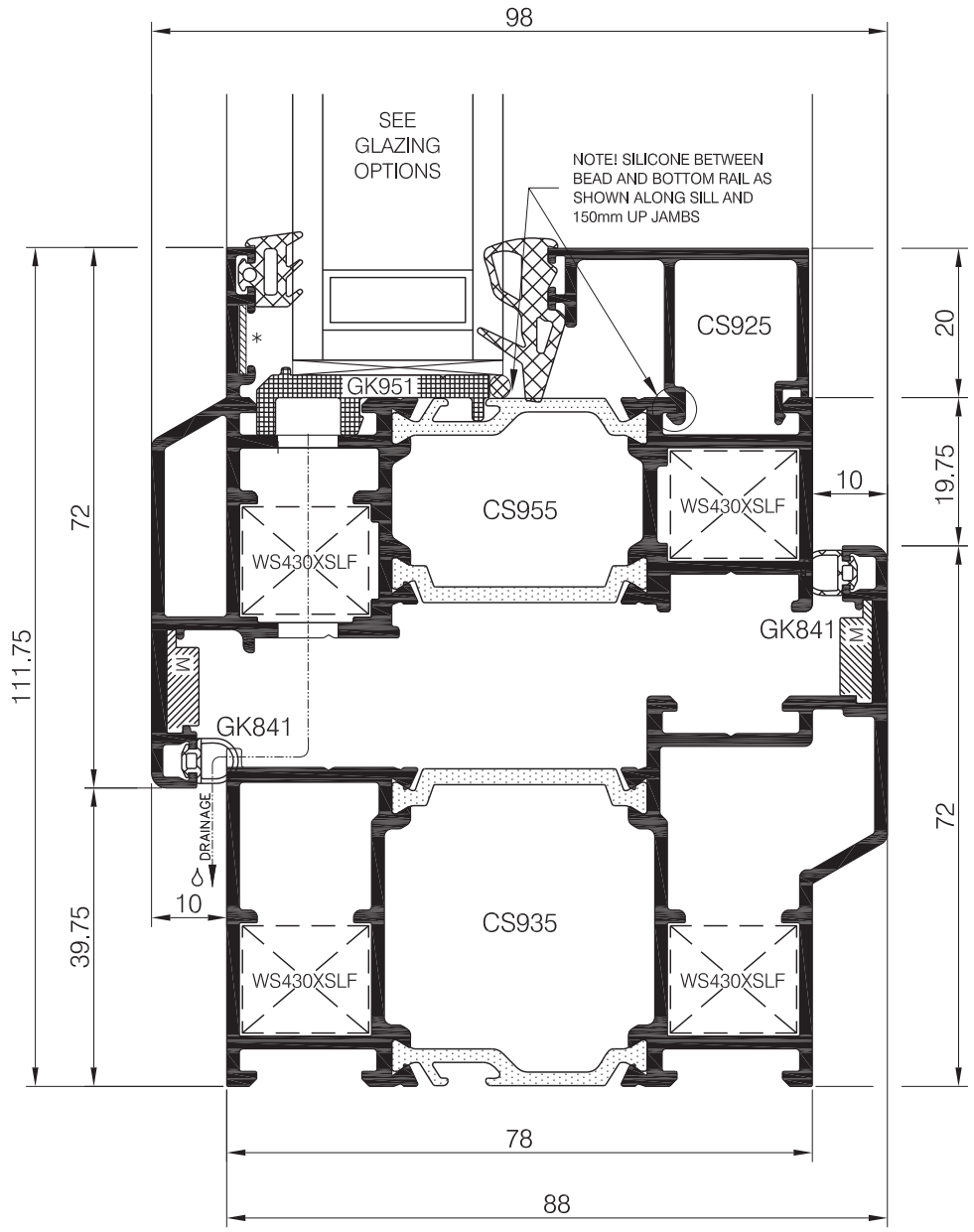
TITLE

PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No. **2.07**

SUB TITLE

CASEMENT WINDOWS
SILL DETAILS-CS955(72mm CASEMENT)/CS935(OUTERFRAME)



NOTE:

NOTCH GASKET FOR DRAINAGE (SEE PG. 3.25)

* DENOTES WS015XSLF CHEVRON

M DENOTES WS416XSLF ALIGNMENT SQUARE

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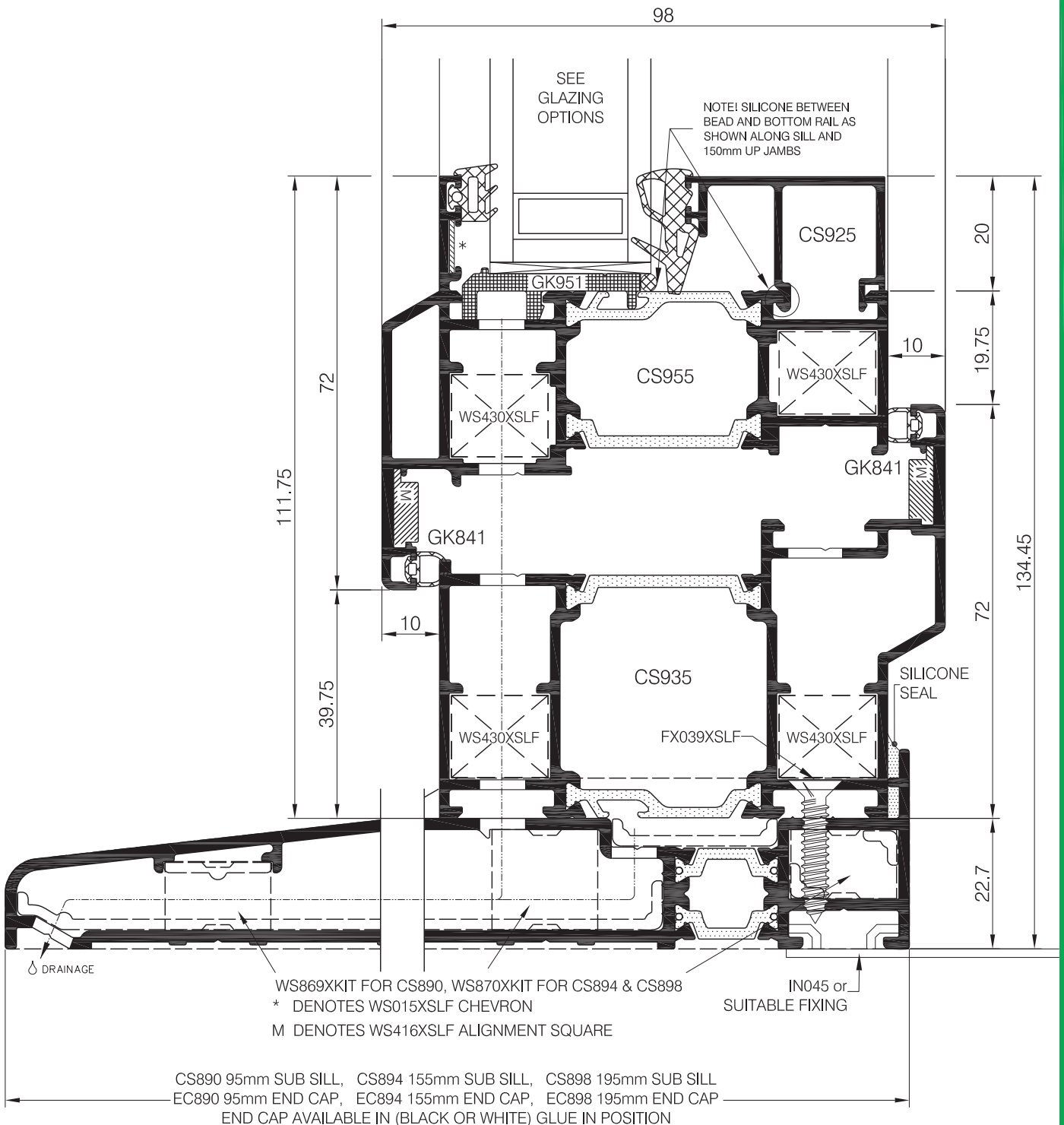
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DRG. No.	C9-Pi-PF-CW 2.07

comar9Pi

TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
2.08

SUB TITLE
CASEMENT WINDOWS
SILL WITH SUB SILL DETAILS-CS955(72mmCASEMENT)/CS935



* DENOTES WS015XSLF CHEVRON
M DENOTES WS416XSLF ALIGNMENT SQUARE

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DATE	10-04-2010
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DRG. No.	C9-Pi-PF-CW 2.08

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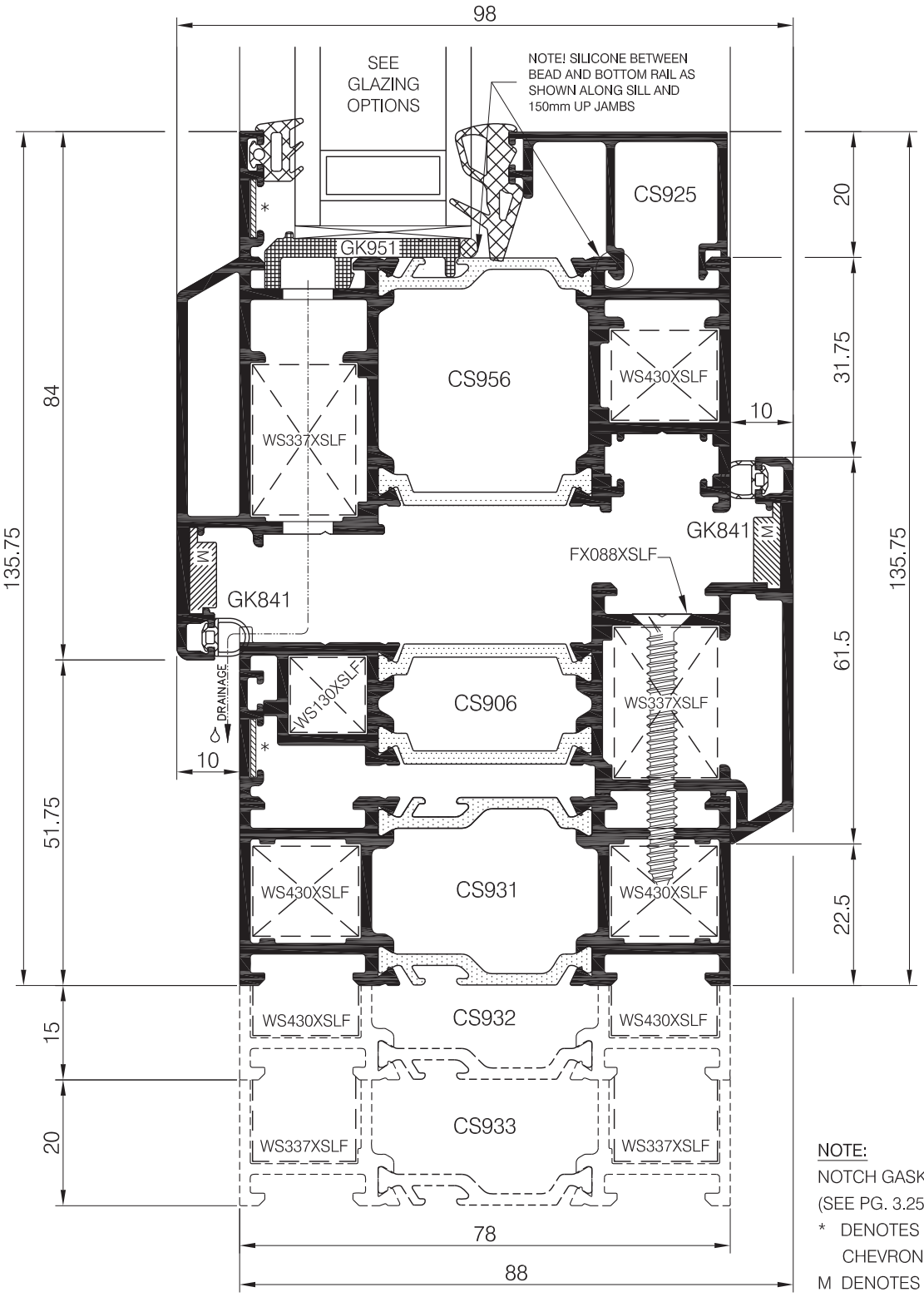
TITLE

PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No. **2.09**

SUB TITLE

CASEMENT WINDOWS
SILL DETAILS - CS956(84mm CASEMENT) / CS906 (REV ADAP)



NOTE:

NOTCH GASKET FOR DRAINAGE (SEE PG. 3.25)

* DENOTES WS015XSLF CHEVRON

M DENOTES WS416XSLF ALIGNMENT SQUARE

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DRG. No.	C9-Pi-PF-CW 2.09

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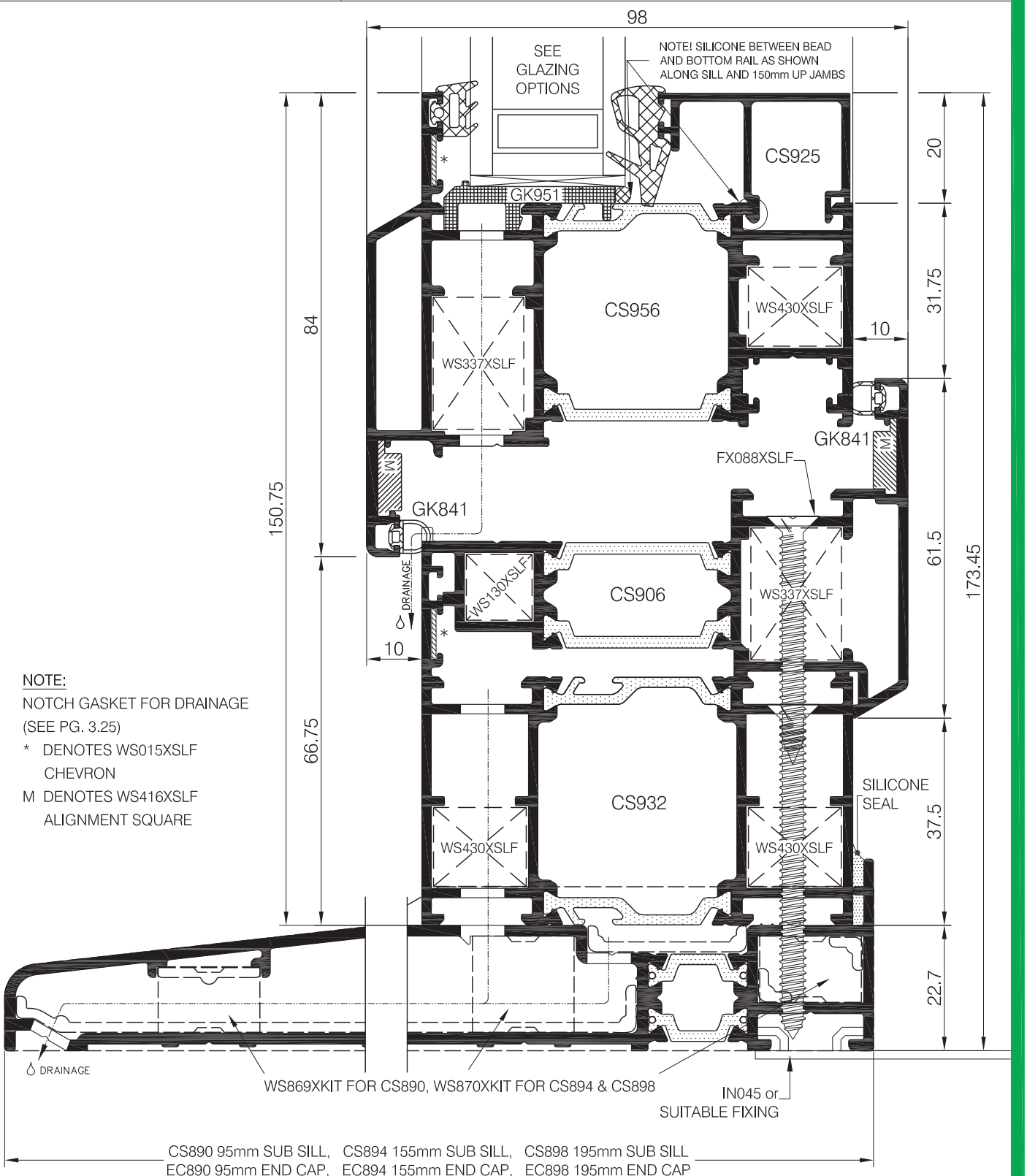
TITLE

PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No. **2.10**

SUB TITLE

CASEMENT WINDOWS
SILL WITH SUB SILL DETAILS - CS956 / CS906 / CS932



NOTE:
NOTCH GASKET FOR DRAINAGE (SEE PG. 3.25)
* DENOTES WS015XSLF CHEVRON
M DENOTES WS416XSLF ALIGNMENT SQUARE

CS890 95mm SUB SILL, CS894 155mm SUB SILL, CS898 195mm SUB SILL
EC890 95mm END CAP, EC894 155mm END CAP, EC898 195mm END CAP
END CAP AVAILABLE IN (BLACK OR WHITE) GLUE IN POSITION

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DRG. No.	C9-Pi-PF-CW 2.10

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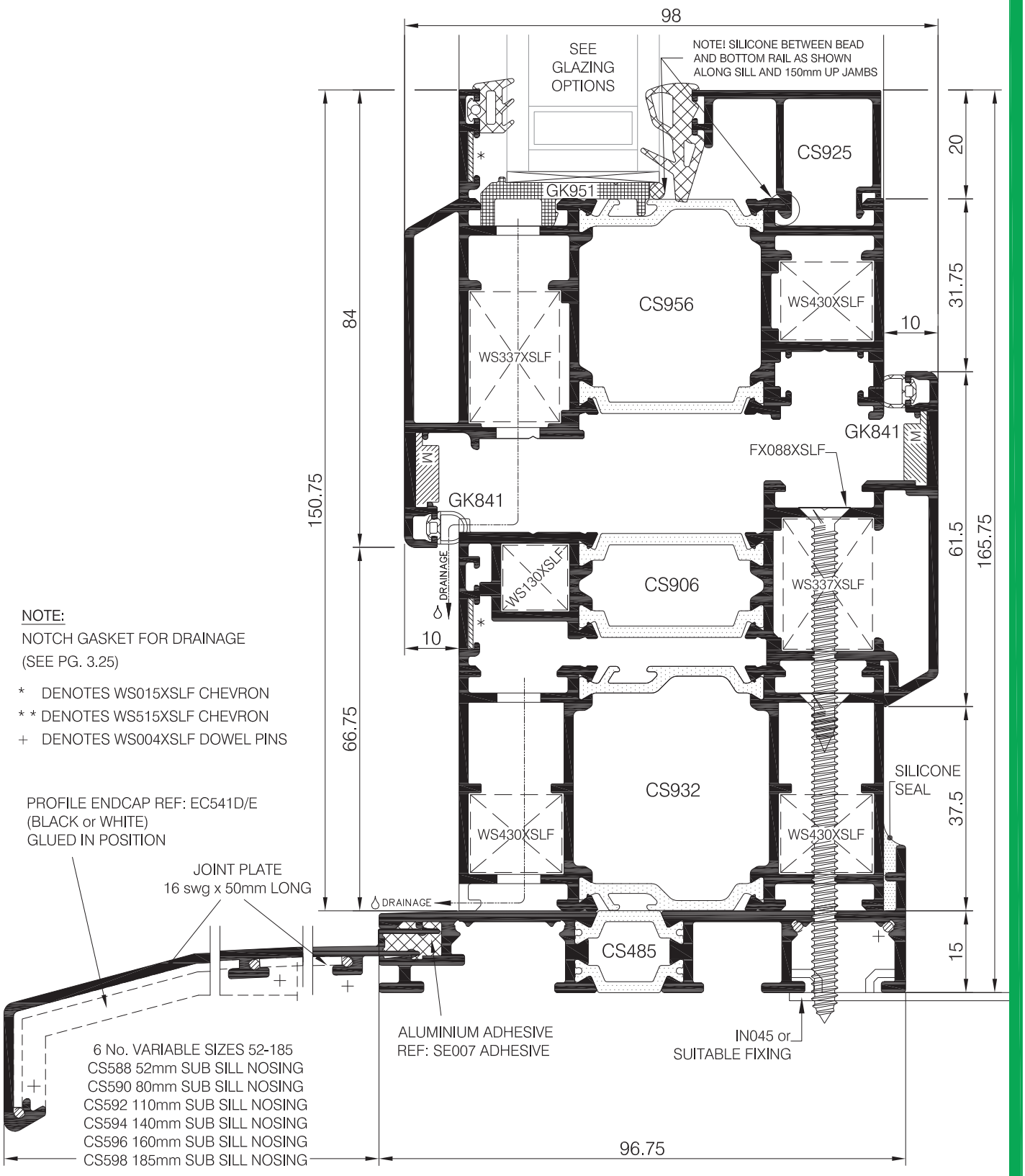
TITLE

PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No. **2.11**

SUB TITLE

CASEMENT WINDOWS
SILL WITH SUB SILL DETAILS - CS956 / CS906 / CS932



NOTE:
NOTCH GASKET FOR DRAINAGE
(SEE PG. 3.25)

* DENOTES WS015XSLF CHEVRON
* * DENOTES WS515XSLF CHEVRON
\+ DENOTES WS004XSLF DOWEL PINS

ALUMINIUM ADHESIVE
REF: SE007 ADHESIVE

IN045 or
SUITABLE FIXING

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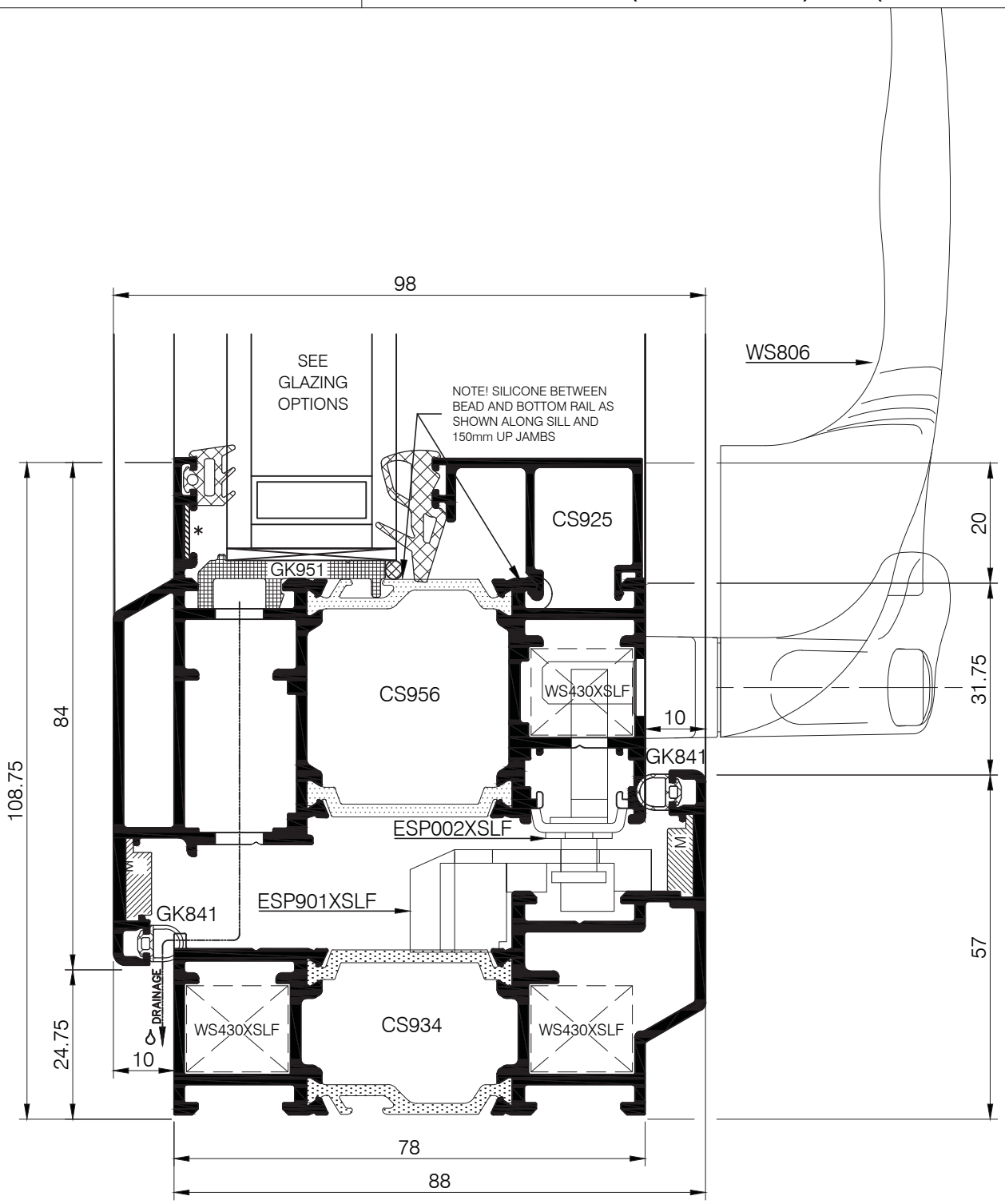
TITLE

PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No. **2.12**

SUB TITLE

CASEMENT WINDOWS
SILL DETAILS-CS956(84mm CASEMENT)/CS934(OUTERFRAME)



NOTE:

NOTCH GASKET FOR DRAINAGE (SEE PG. 3.25)

* DENOTES WS015XSLF CHEVRON

M DENOTES WS416XSLF ALIGNMENT SQUARE

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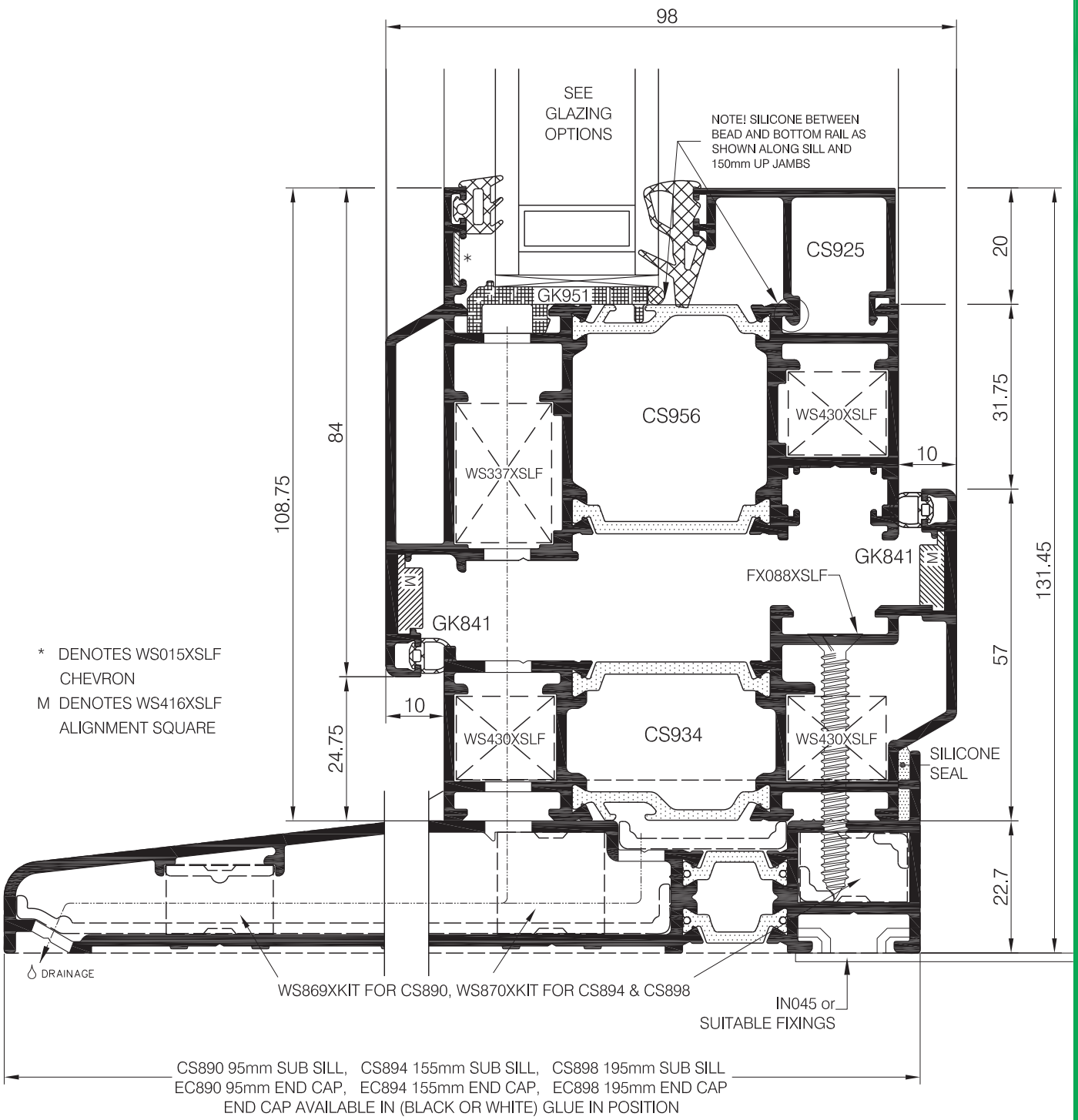
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TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
2.13

SUB TITLE
CASEMENT WINDOWS
SILL WITH SUB SILL DETAILS-CS956(84mmCASEMENT)/CS934



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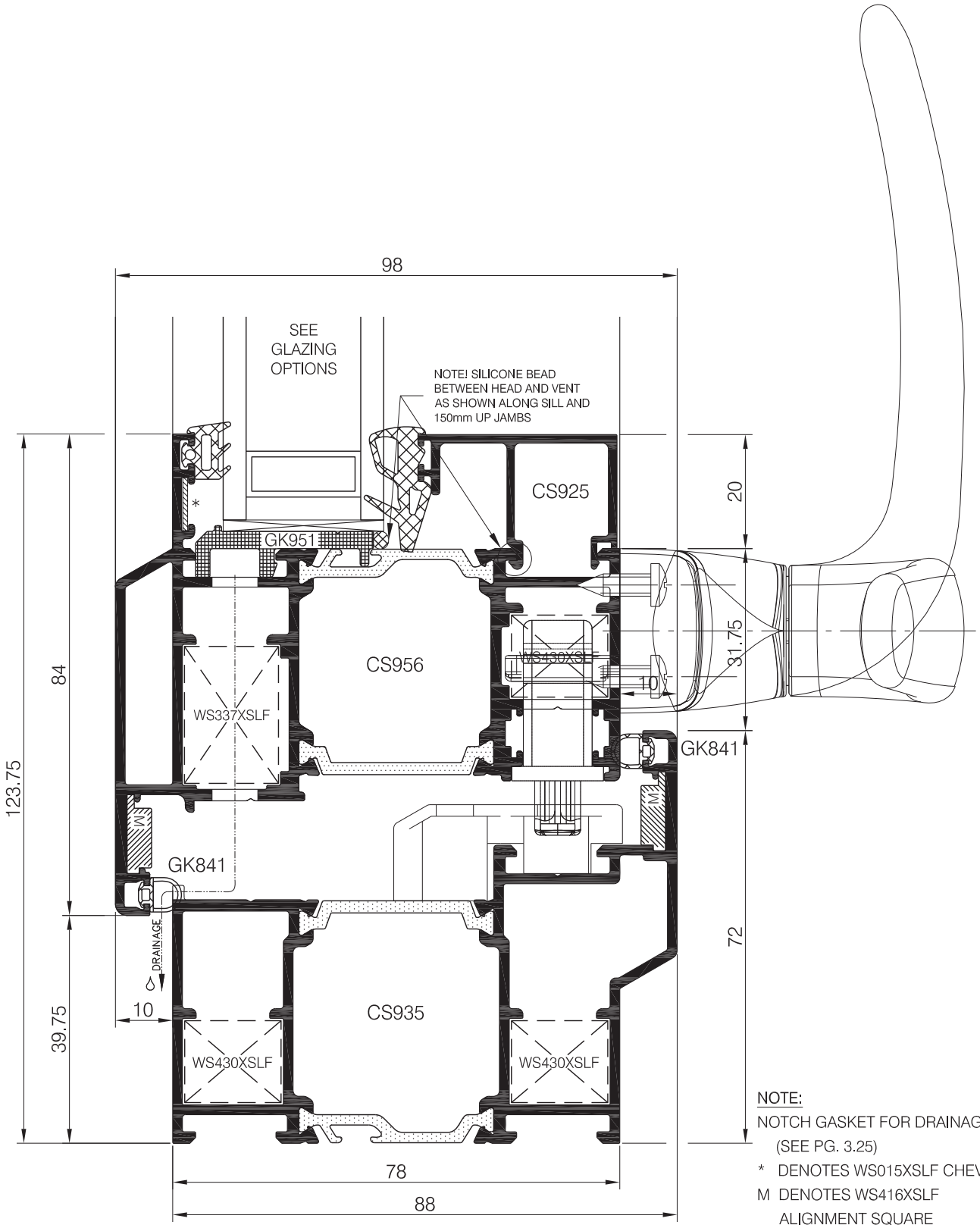
TITLE

PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No. **2.14**

SUB TITLE

CASEMENT WINDOWS
SILL DETAILS - CS956 / CS935



NOTE:
NOTCH GASKET FOR DRAINAGE (SEE PG. 3.25)
* DENOTES WS015XSLF CHEVRON
M DENOTES WS416XSLF ALIGNMENT SQUARE

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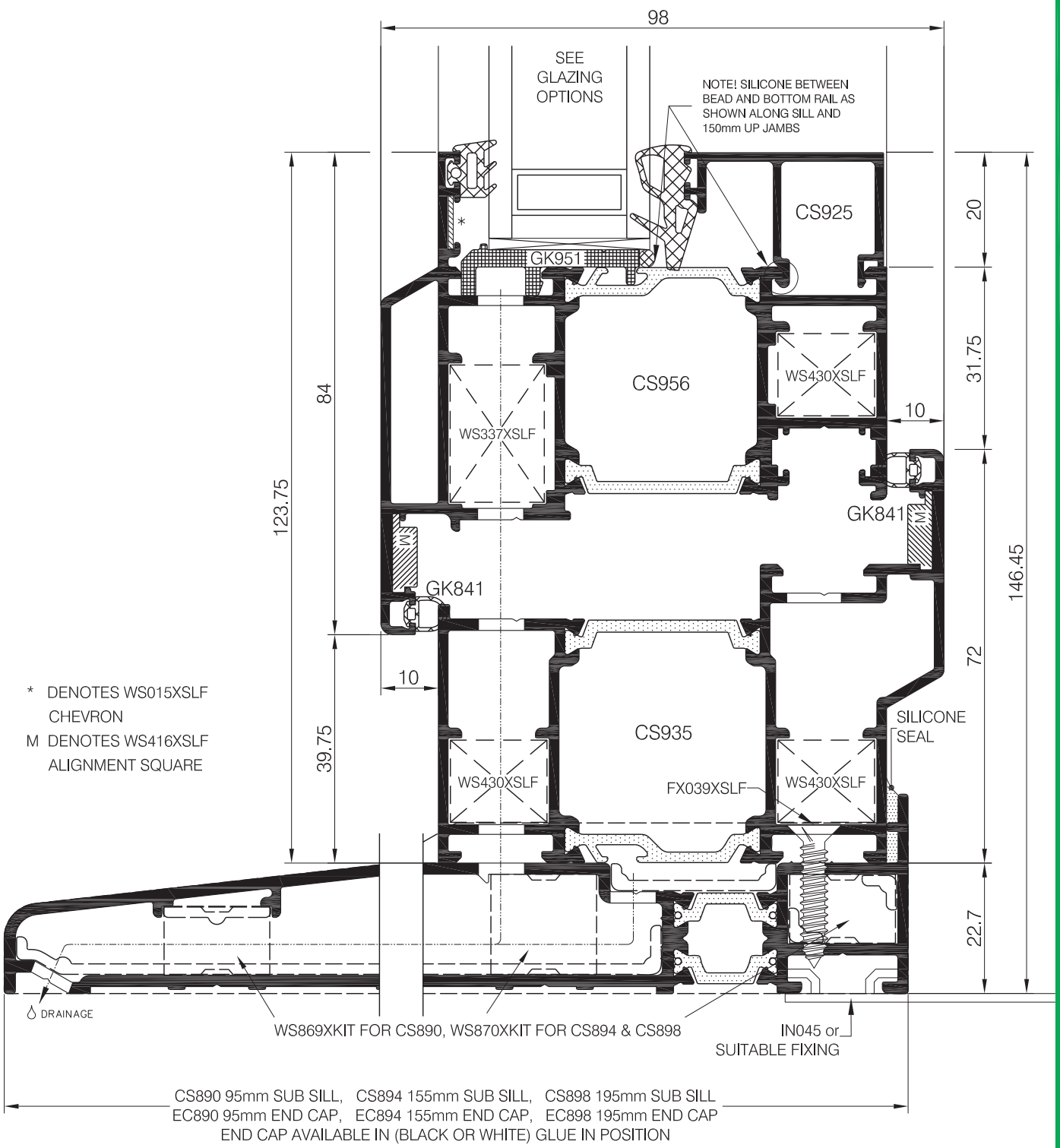
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TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
2.15

SUB TITLE
CASEMENT WINDOWS
SILL WITH SUB SILL DETAILS-CS956(84mm CASEMENT/CS935)



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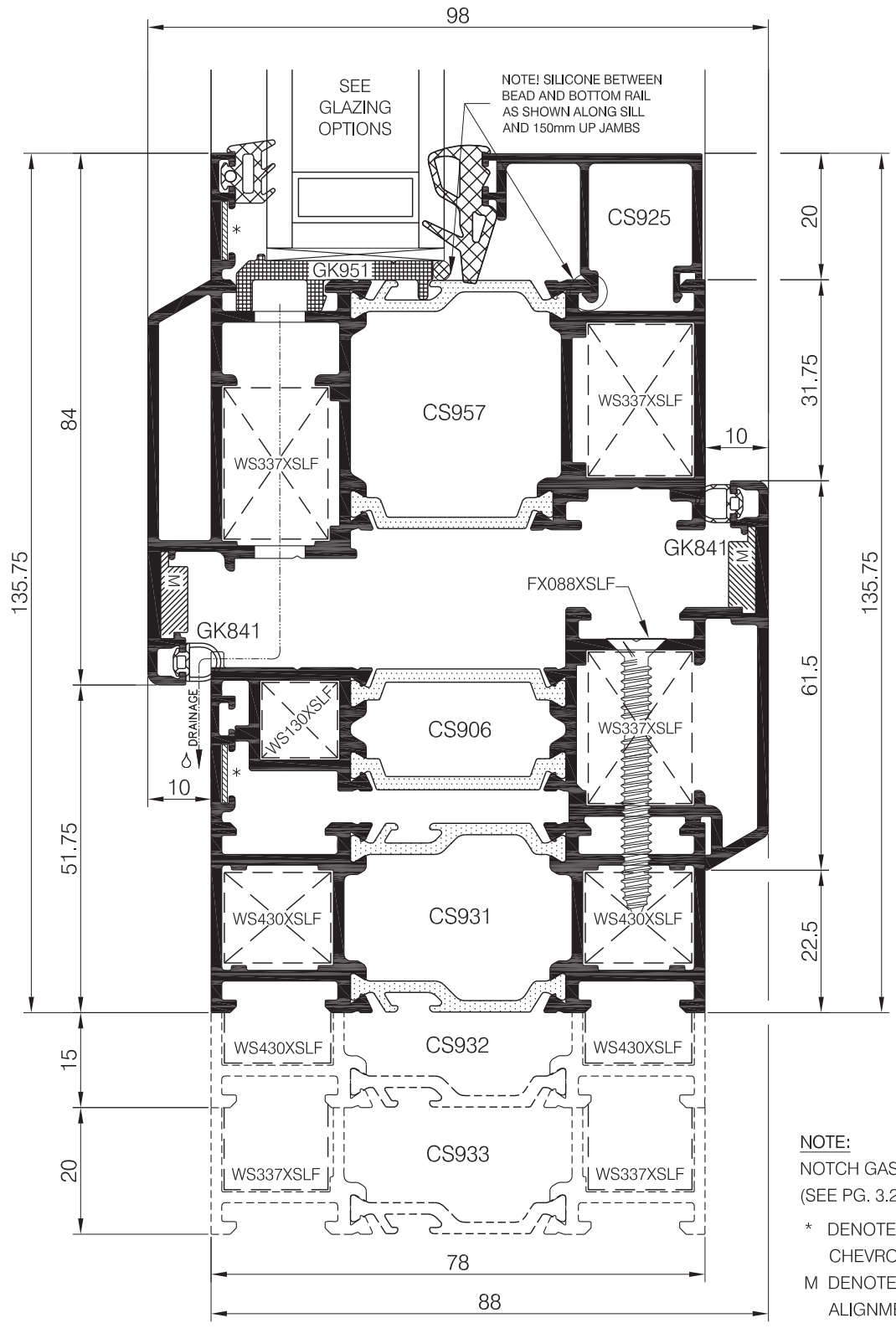
TITLE

PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No. **2.16**

SUB TITLE

CASEMENT WINDOWS
SILL DETAILS -CS957(84mm CASEMENT) / CS906(REV ADAP)



NOTE:

NOTCH GASKET FOR DRAINAGE (SEE PG. 3.25)

* DENOTES WS015XSLF CHEVRON

M DENOTES WS416XSLF ALIGNMENT SQUARE

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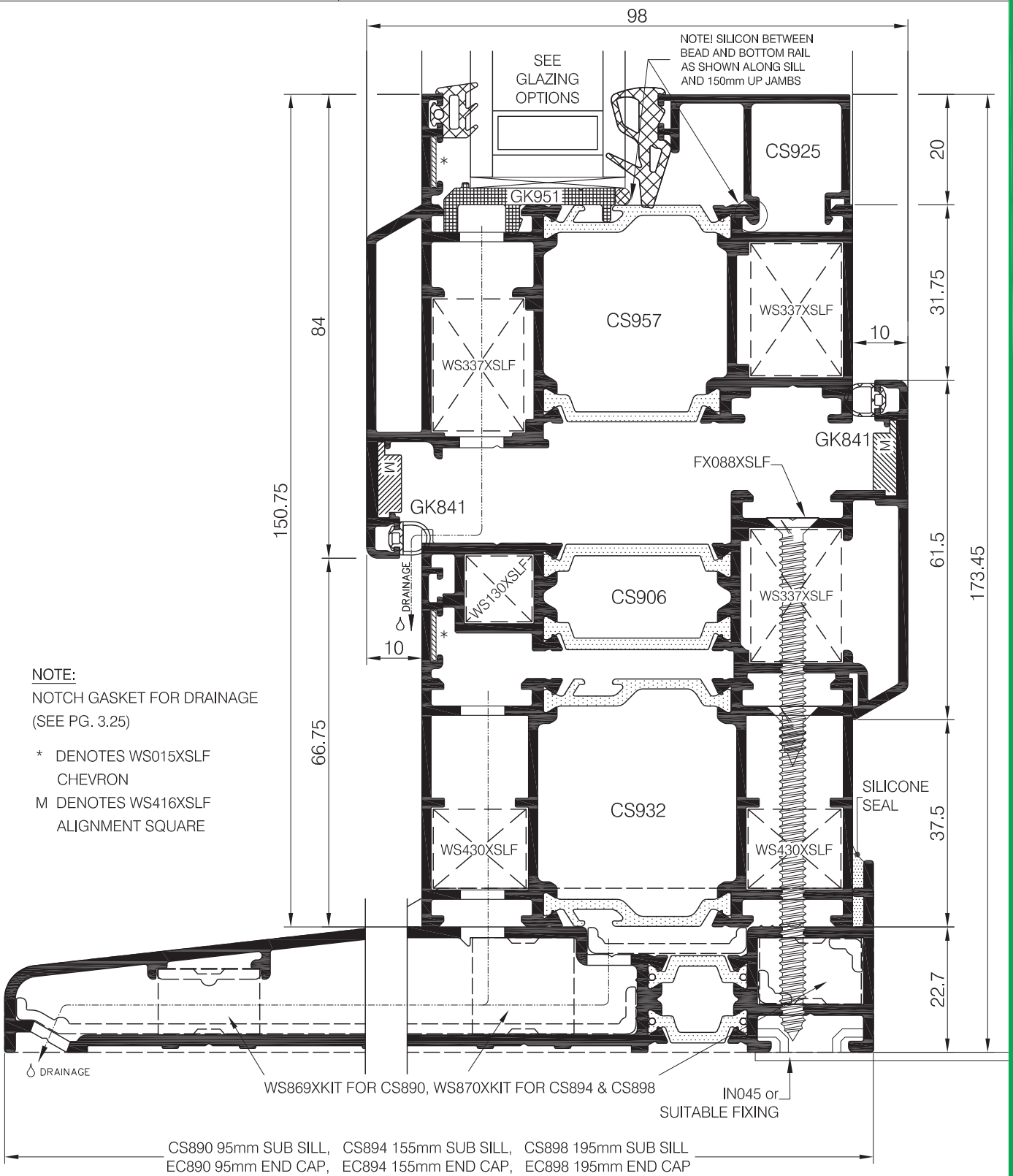
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TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
2.17

SUB TITLE
CASEMENT WINDOWS
SILL WITH SUB SILL DETAILS - CS957 / CS906 / CS932



NOTE:
NOTCH GASKET FOR DRAINAGE (SEE PG. 3.25)

* DENOTES WS015XSLF CHEVRON
M DENOTES WS416XSLF ALIGNMENT SQUARE

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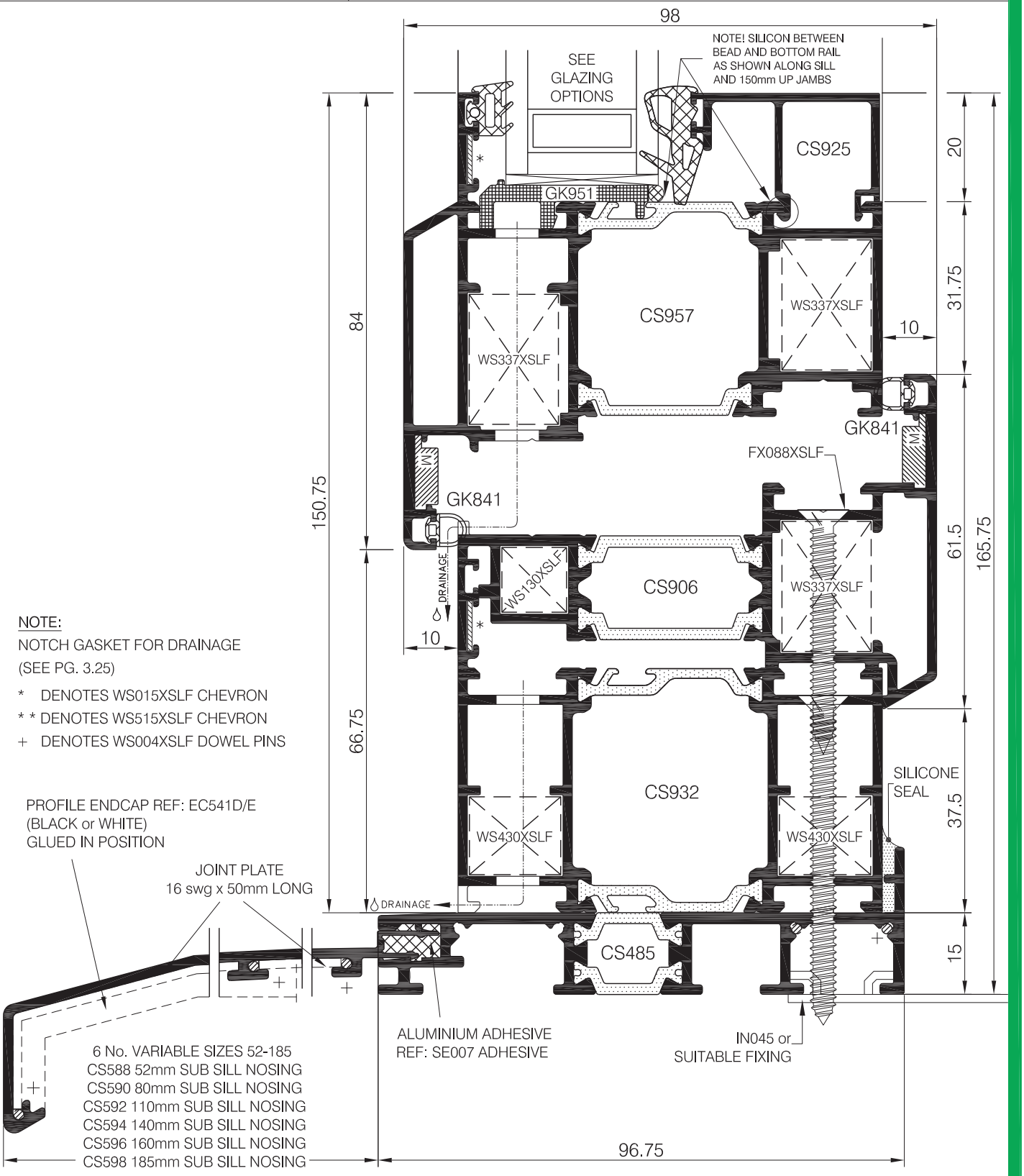
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comar9Pi

TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
2.18

SUB TITLE
CASEMENT WINDOWS
SILL WITH SUB SILL DETAILS - CS957 / CS906 / CS932



NOTE:
NOTCH GASKET FOR DRAINAGE
(SEE PG. 3.25)

* DENOTES WS015XSLF CHEVRON
* * DENOTES WS515XSLF CHEVRON
\+ DENOTES WS004XSLF DOWEL PINS

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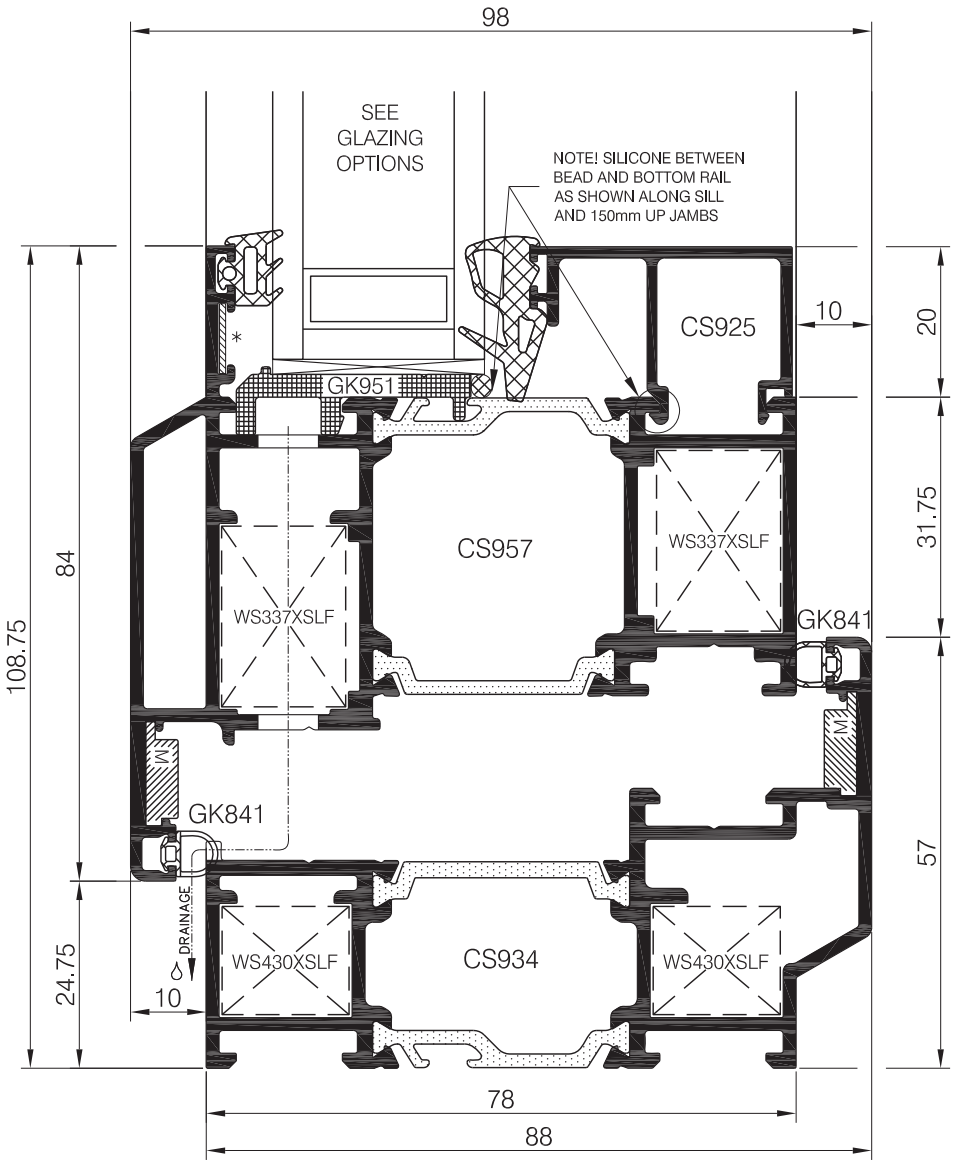
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comar9Pi

TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
2.19

SUB TITLE
CASEMENT WINDOWS
SILL DETAILS-CS957(84mm CASEMENT)/CS934(OUTERFRAME)



NOTE:

NOTCH GASKET FOR DRAINAGE (SEE PG. 3.25)

* DENOTES WS015XSLF CHEVRON

M DENOTES WS416XSLF ALIGNMENT SQUARE

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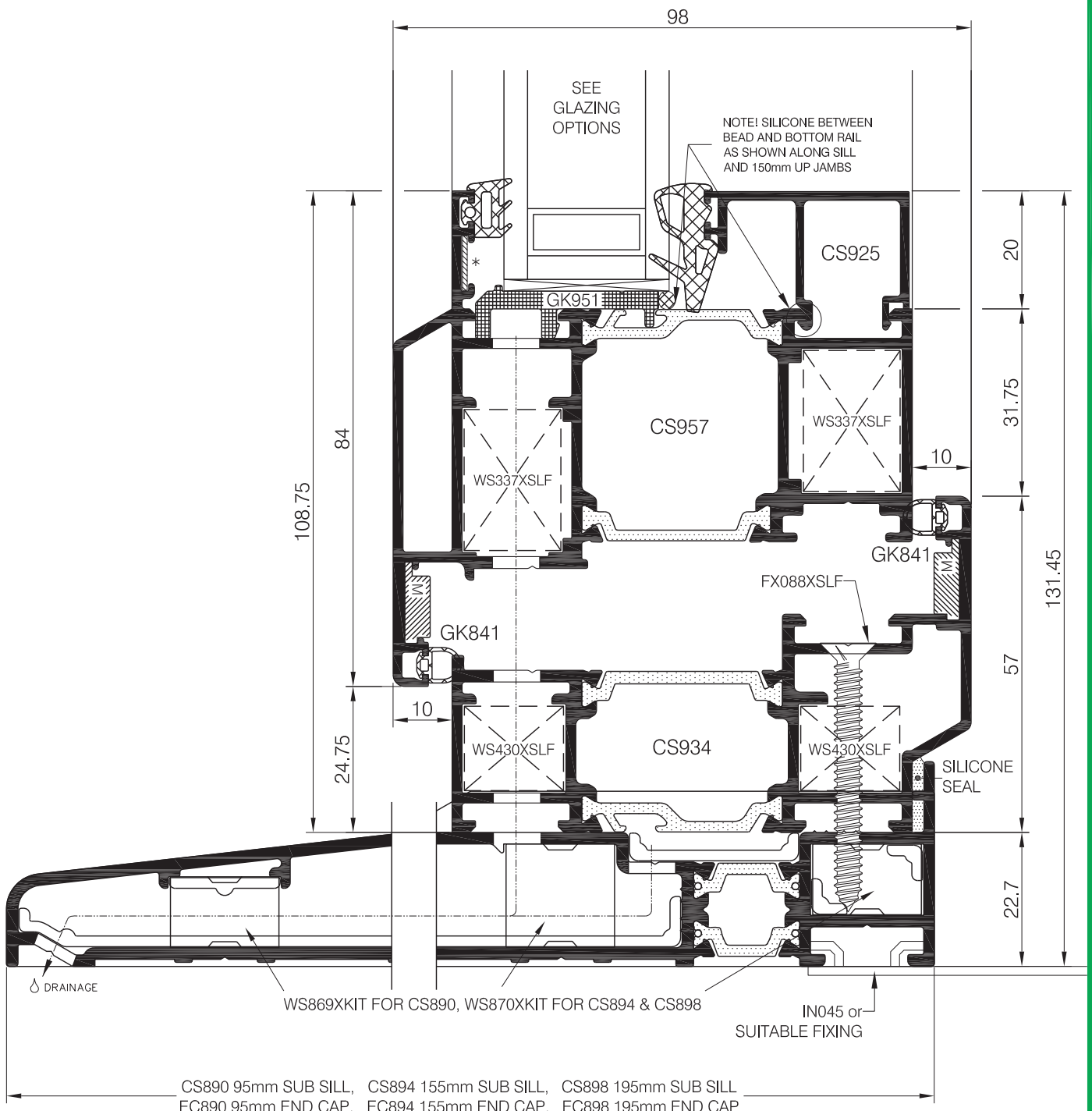
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DRG. No.	C9-Pi-PF-CW 2.19

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TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
2.20

SUB TITLE
CASEMENT WINDOWS
SILL WITH SUB SILL DETAILS-CS957(84mmCASEMENT)/CS934



* DENOTES WS015XSLF CHEVRON

M DENOTES WS416XSLF ALIGNMENT SQUARE

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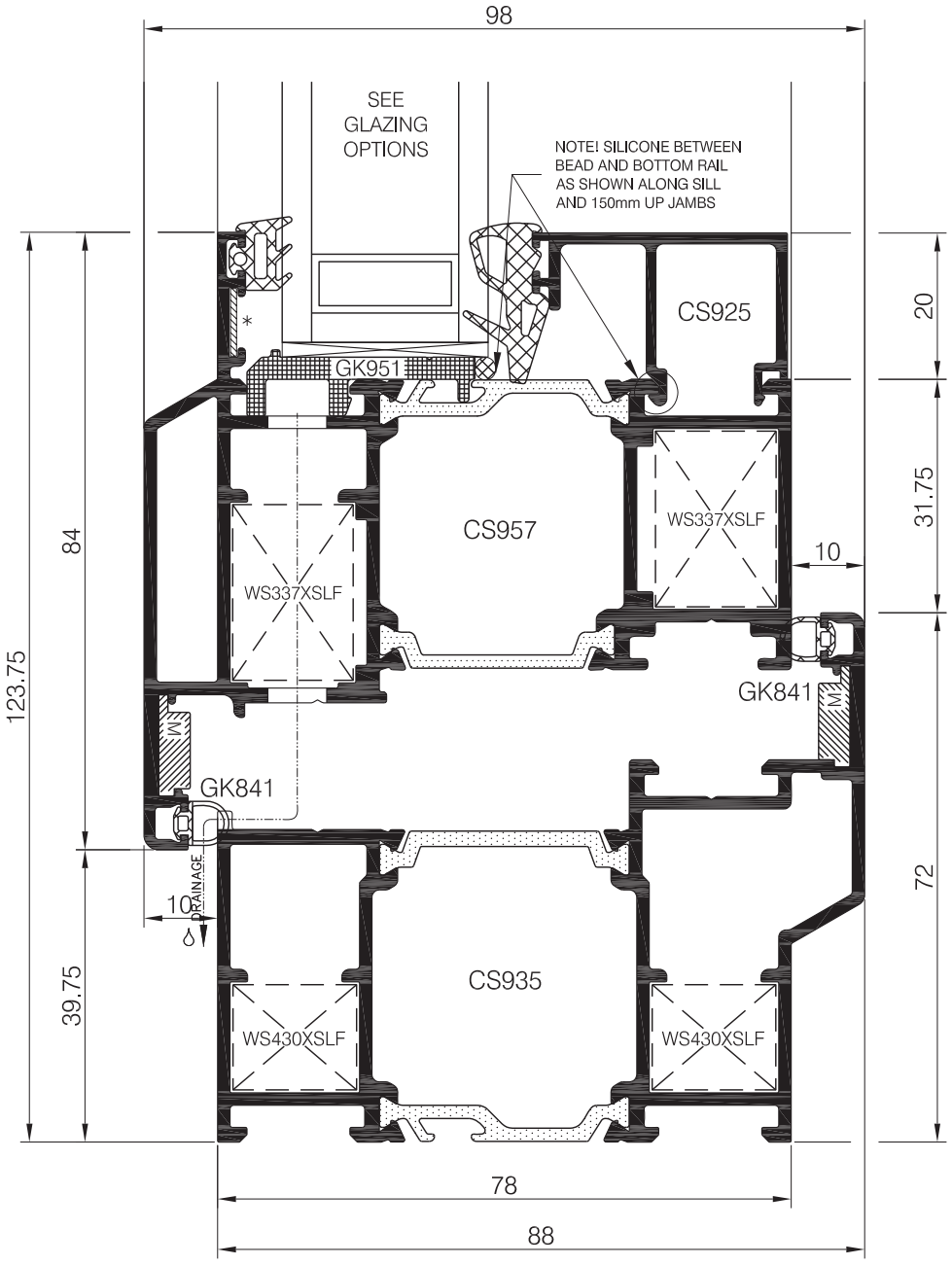
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DRG. No.	C9-Pi-PF-CW 2.20

comar9Pi

TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
2.21

SUB TITLE
CASEMENT WINDOWS
SILL DETAILS-CS957(84mm CASEMENT)/CS935(OUTERFRAME)



NOTE:

NOTCH GASKET FOR DRAINAGE (SEE PG. 3.25)

* DENOTES WS015XSLF CHEVRON

M DENOTES WS416XSLF ALIGNMENT SQUARE

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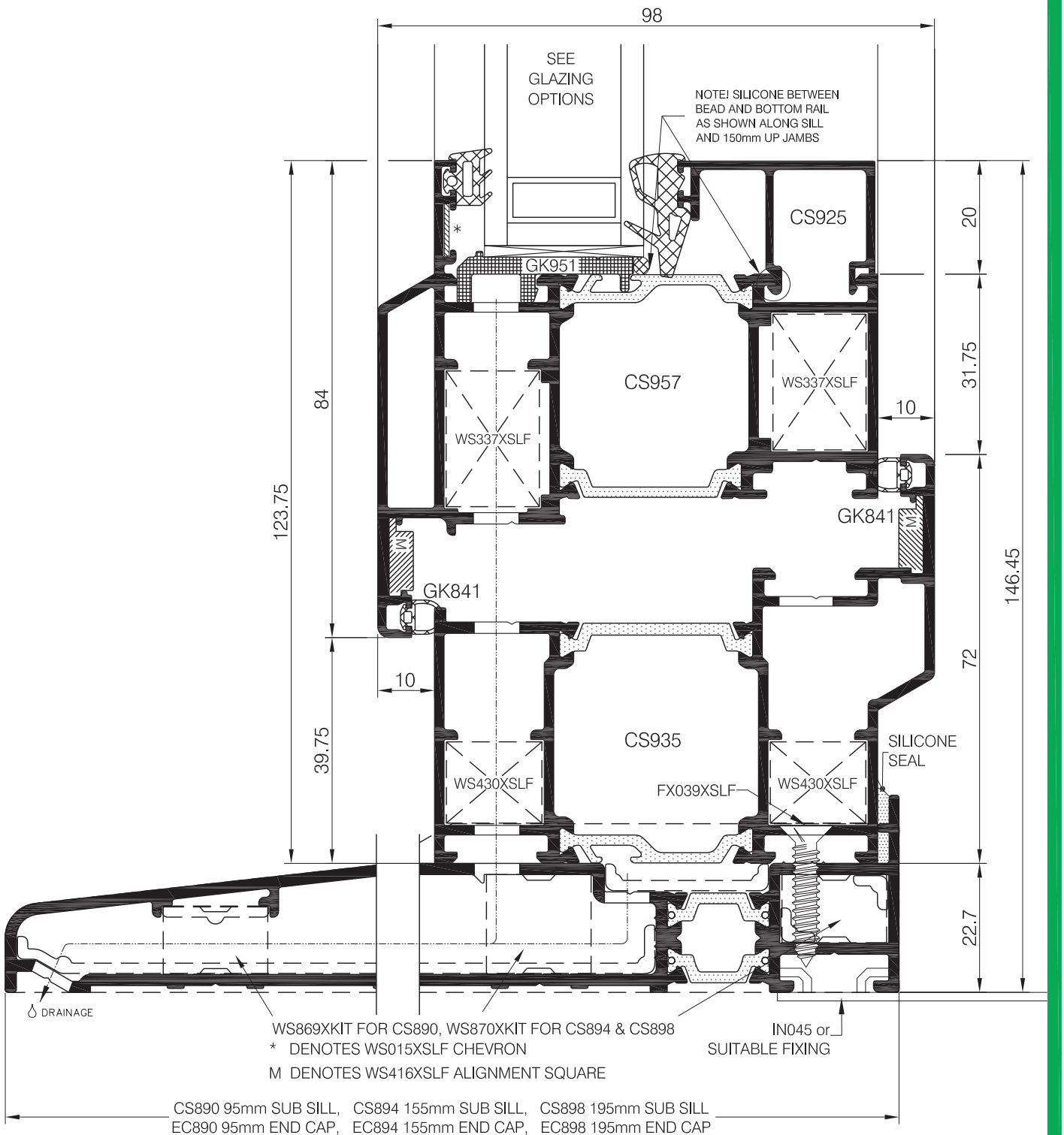
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DRG. No.	C9-Pi-PF-CW 2.21

comar9Pi

TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
2.22

SUB TITLE
CASEMENT WINDOWS
SILL WITH SUB SILL DETAILS - CS957 / CS935



* DENOTES WS015XSLF CHEVRON

M DENOTES WS416XSLF ALIGNMENT SQUARE

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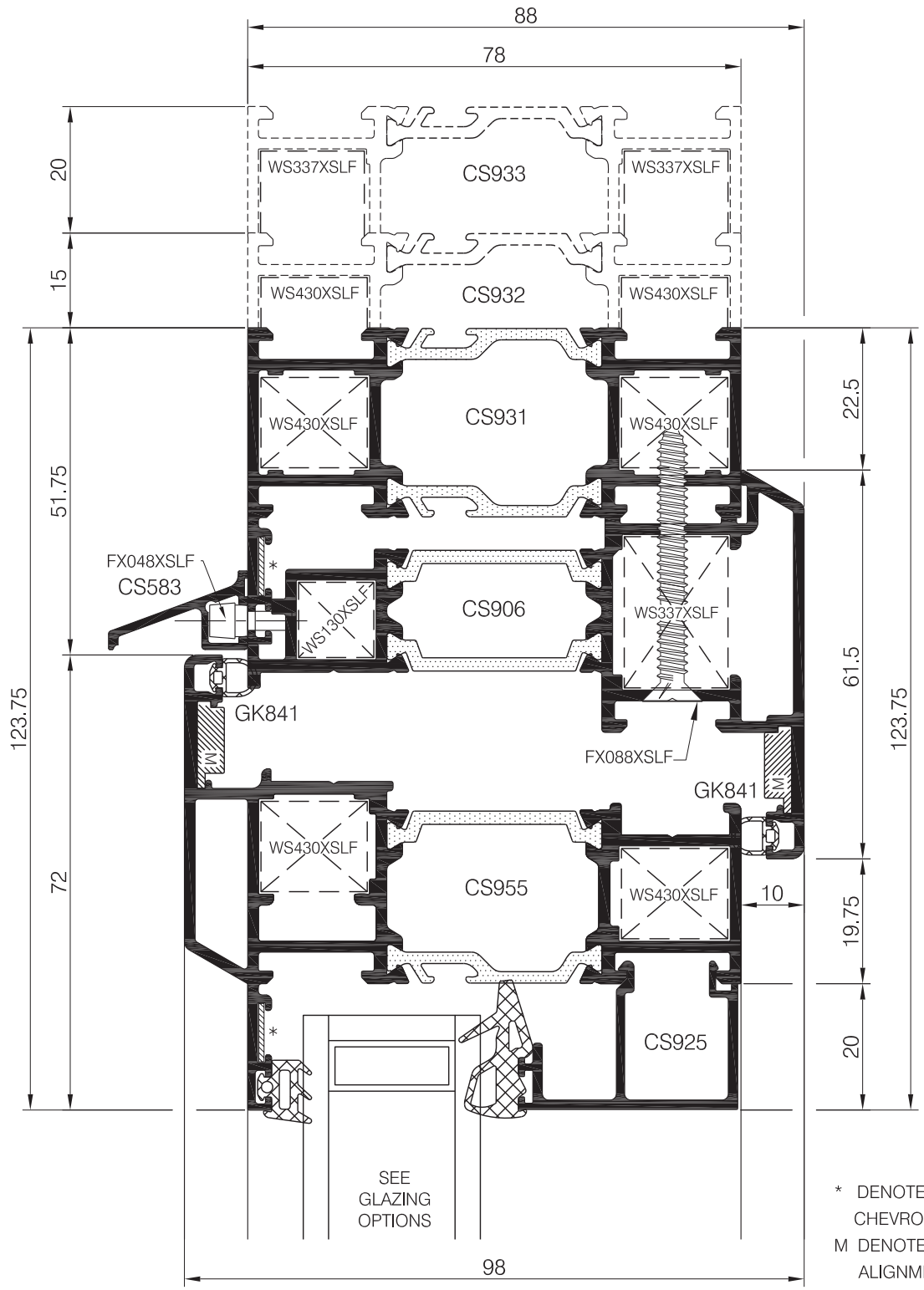
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DRG. No.	C9-Pi-PF-CW 2.22

comar9Pi

TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
2.23

SUB TITLE
CASEMENT WINDOWS
HEAD DETAILS- CS955(72mm CASEMENT)/CS906(REVERSE ADAPTOR)



* DENOTES WS015XSLF CHEVRON

M DENOTES WS416XSLF ALIGNMENT SQUARE

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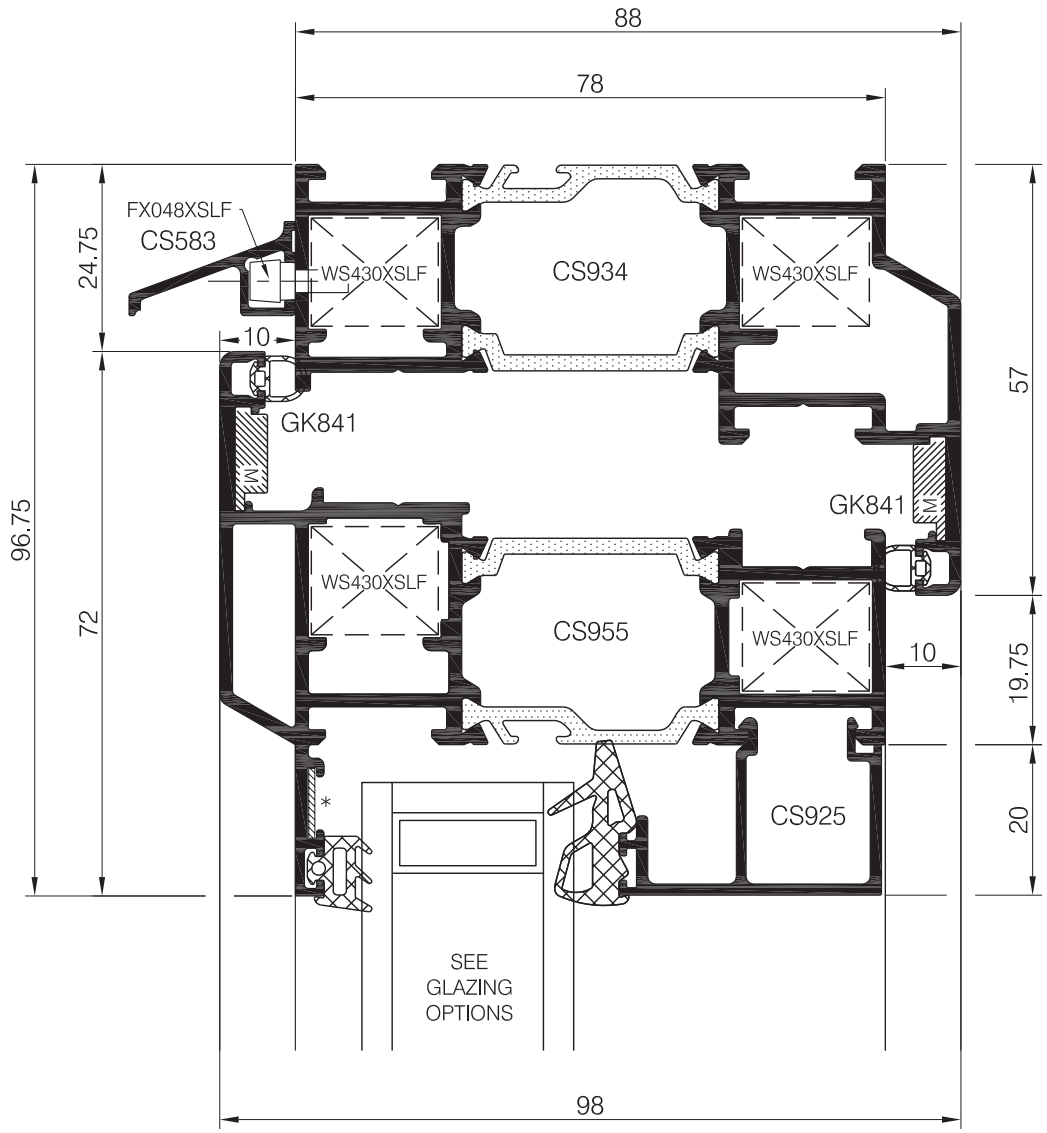
TITLE

PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No. **2.24**

SUB TITLE

CASEMENT WINDOWS
HEAD DETAILS - CS955 (72mm CASEMENT) / CS934 (OUTERFRAME)



* DENOTES WS015XSLF CHEVRON

M DENOTES WS416XSLF ALIGNMENT SQUARE

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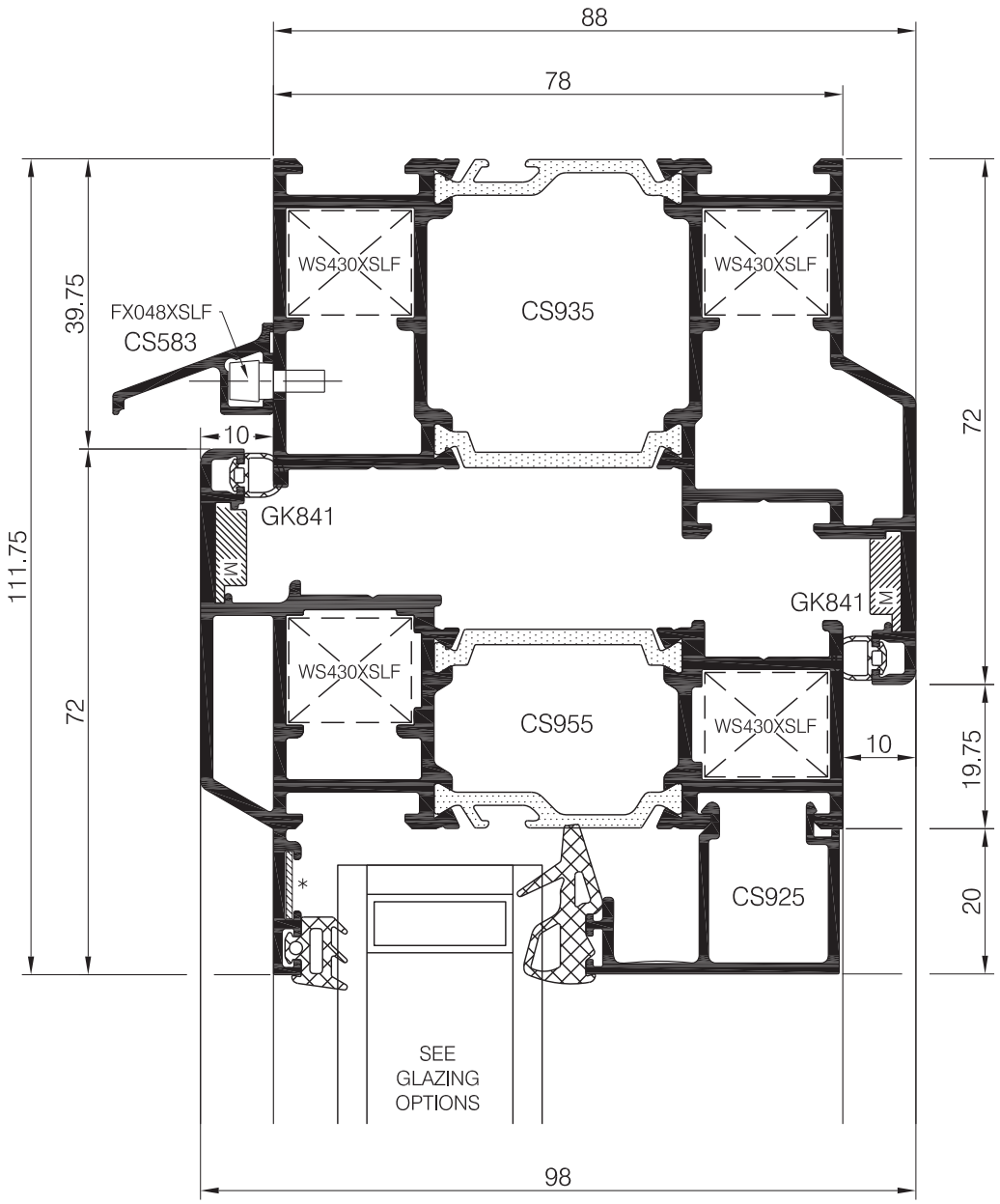
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DRG. No.	C9-Pi-PF-CW 2.24

comar9Pi

TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
2.25

SUB TITLE
CASEMENT WINDOWS
HEAD DETAILS - CS955 (72mm CASEMENT) / CS935 (OUTERFRAME)



* DENOTES WS015XSLF CHEVRON

M DENOTES WS416XSLF ALIGNMENT SQUARE

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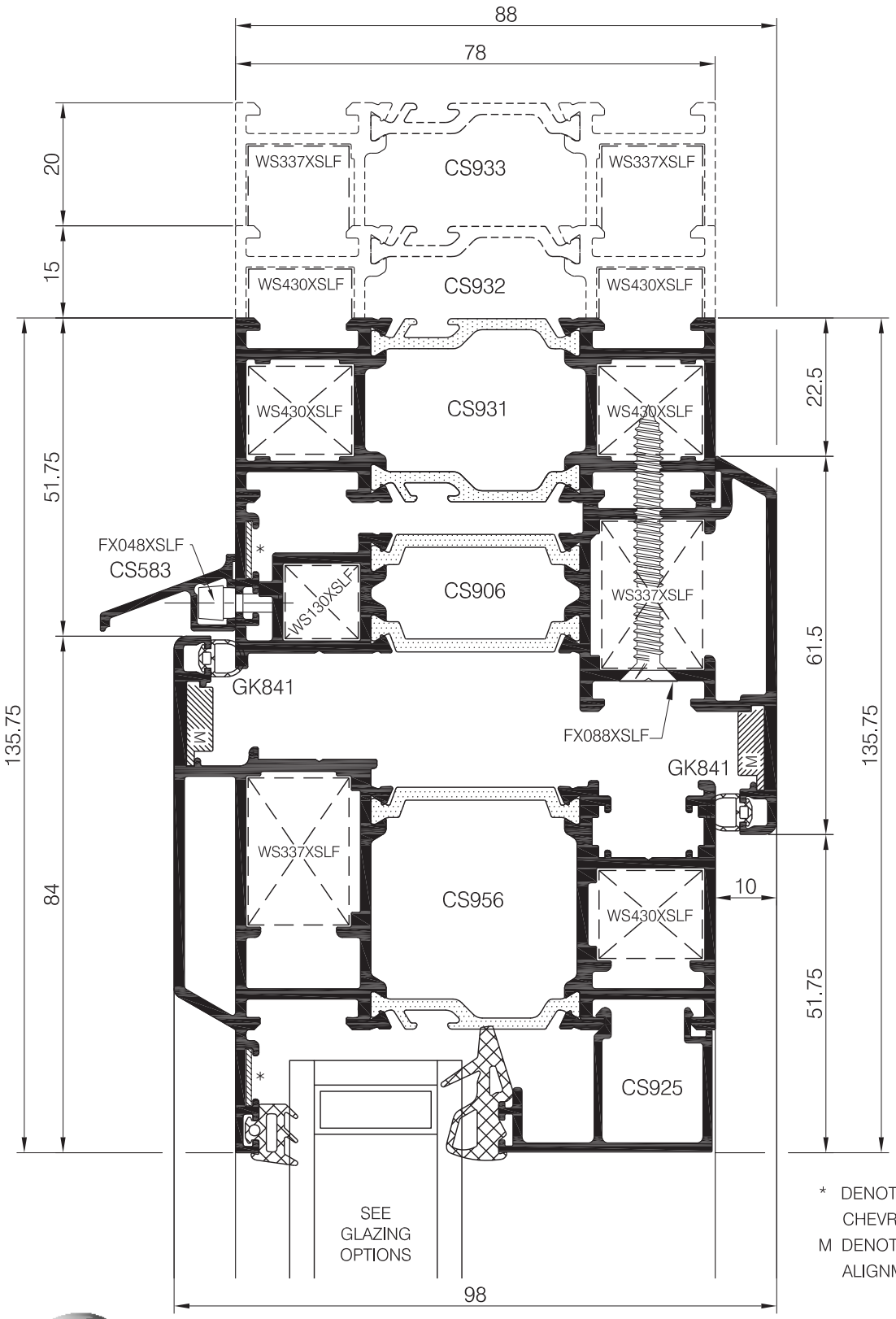
TITLE

PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No. **2.26**

SUB TITLE

CASEMENT WINDOWS
HEAD DETAILS- CS956(84mm CASEMENT)/CS906(REVERSE ADAPTOR)



* DENOTES WS015XSLF CHEVRON

M DENOTES WS416XSLF ALIGNMENT SQUARE

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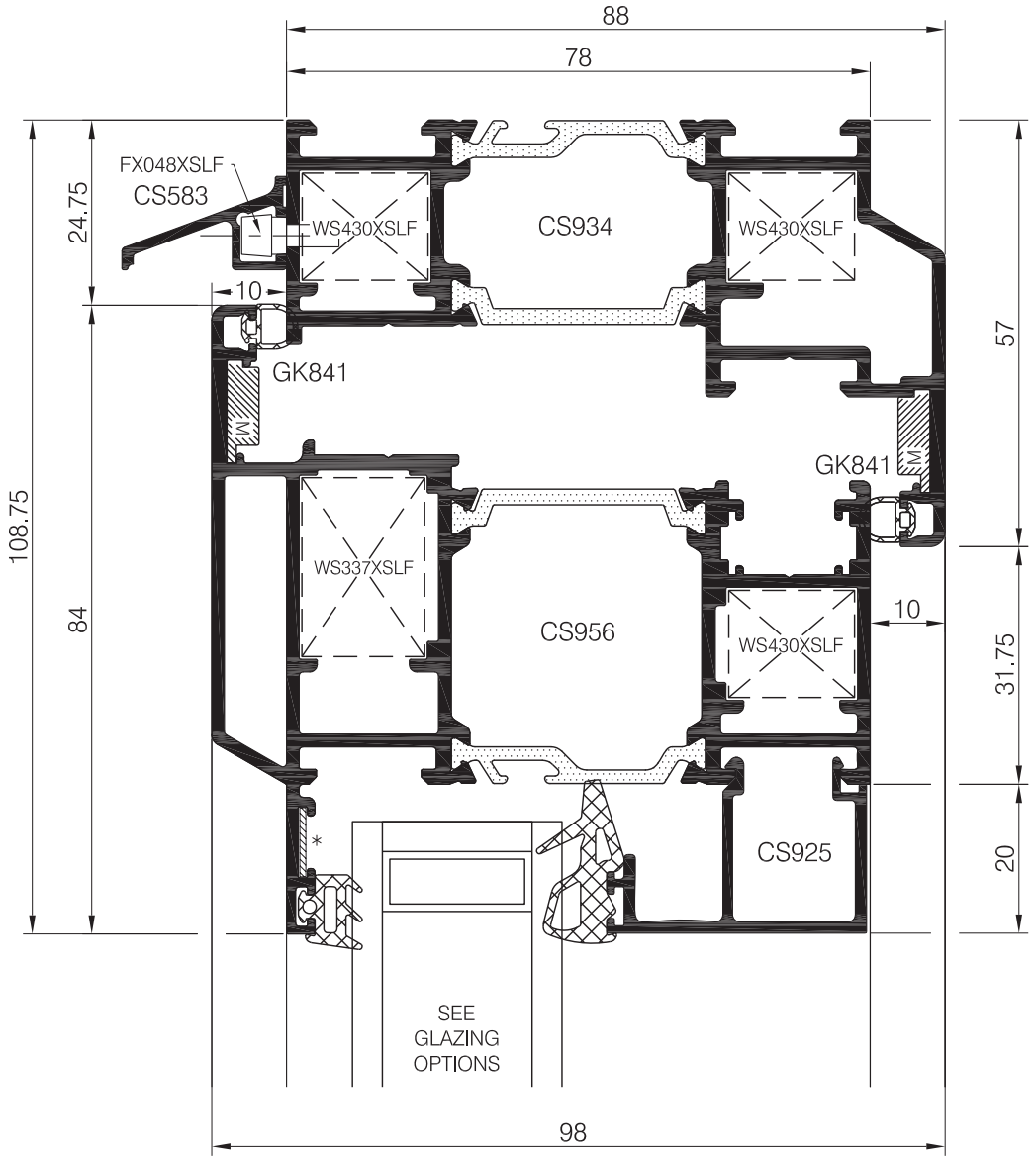
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comar9Pi

TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
2.27

SUB TITLE
CASEMENT WINDOWS
HEAD DETAILS - CS956 (84mm CASEMENT) / CS934 (OUTERFRAME)



* DENOTES WS015XSLF CHEVRON

M DENOTES WS416XSLF ALIGNMENT SQUARE

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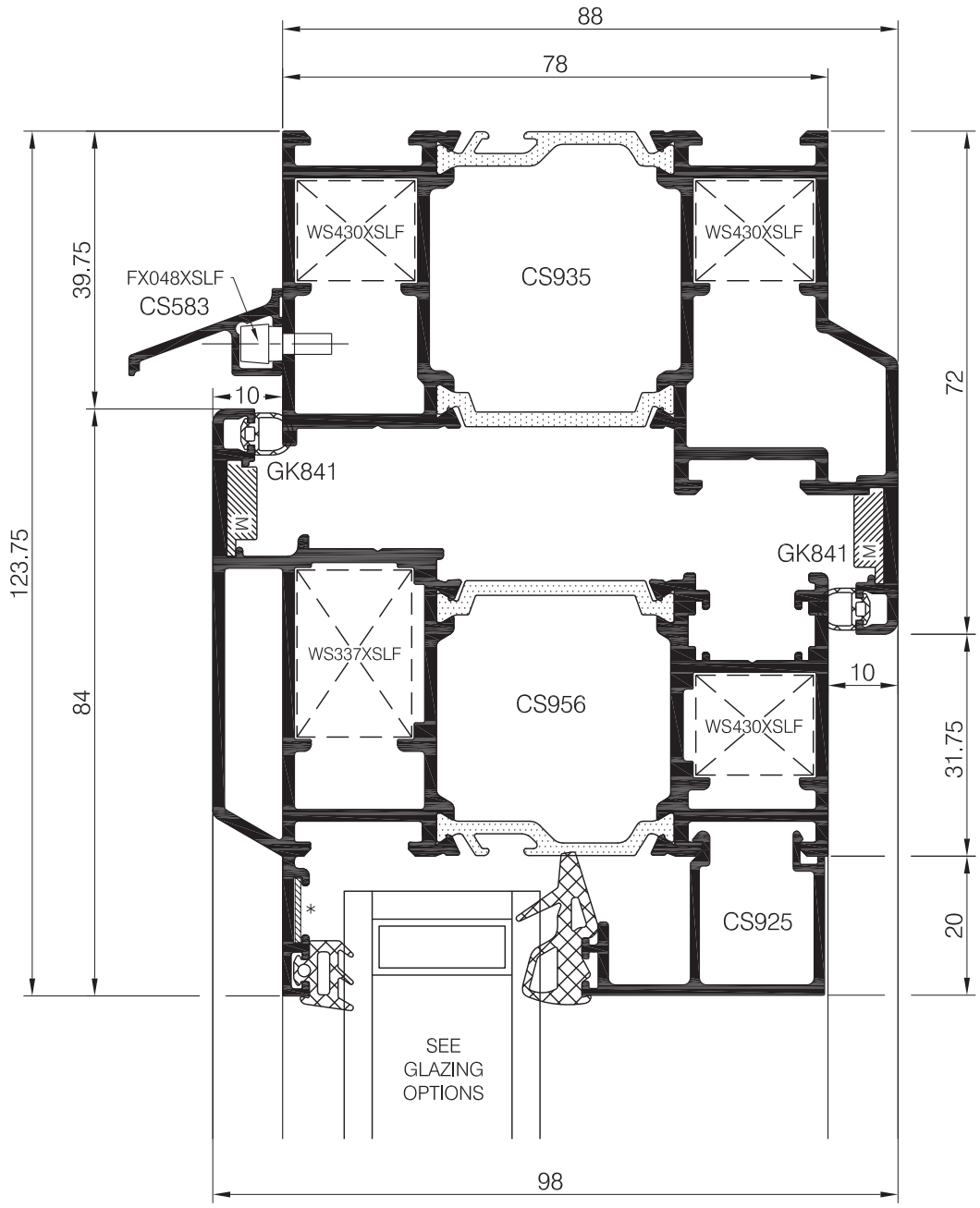
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DRG. No.	C9-Pi-PF-CW 2.27

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TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
2.28

SUB TITLE
CASEMENT WINDOWS
HEAD DETAILS - CS956 (84mm CASEMENT) / CS935 (OUTERFRAME)



* DENOTES WS015XSLF CHEVRON

M DENOTES WS416XSLF ALIGNMENT SQUARE

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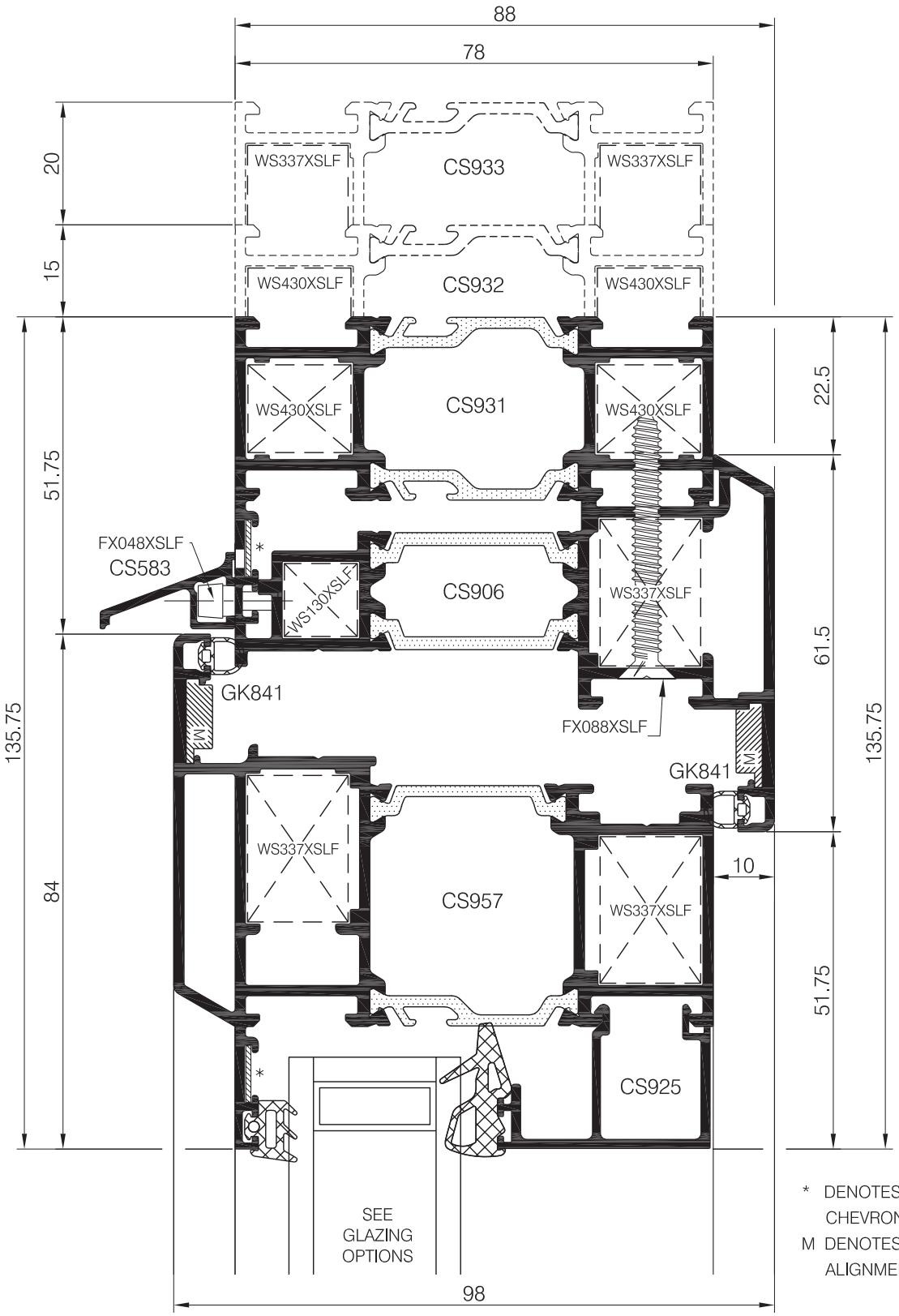
TITLE

PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No. **2.29**

SUB TITLE

CASEMENT WINDOWS
HEAD DETAILS -CS957(84mm CASEMENT)/CS906(REVERSE ADAPTOR)



* DENOTES WS015XSLF CHEVRON

M DENOTES WS416XSLF ALIGNMENT SQUARE

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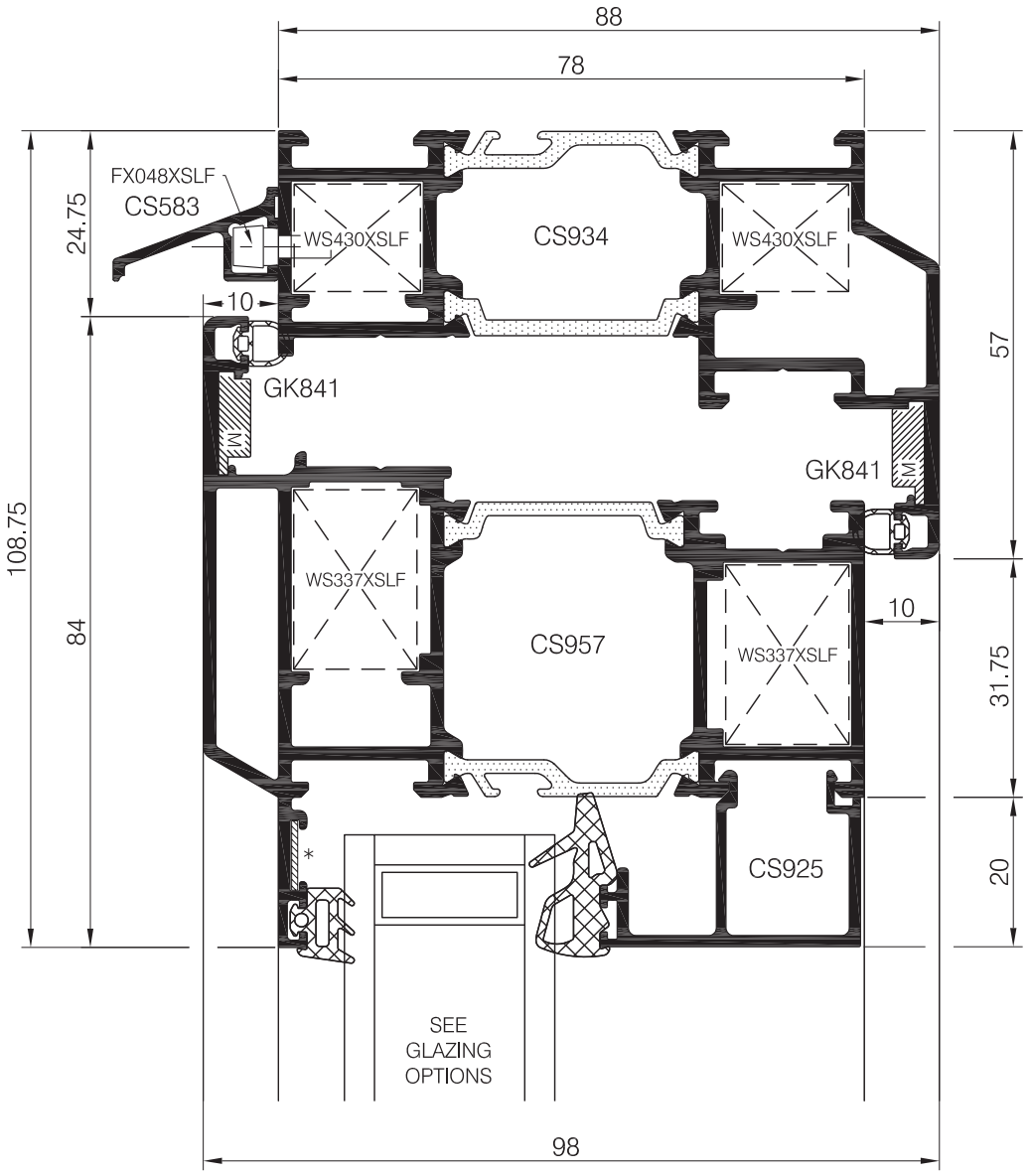
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TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
2.30

SUB TITLE
CASEMENT WINDOWS
HEAD DETAILS - CS957(84mm CASEMENT) / CS934 (OUTERFRAME)



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M DENOTES WS416XSLF ALIGNMENT SQUARE

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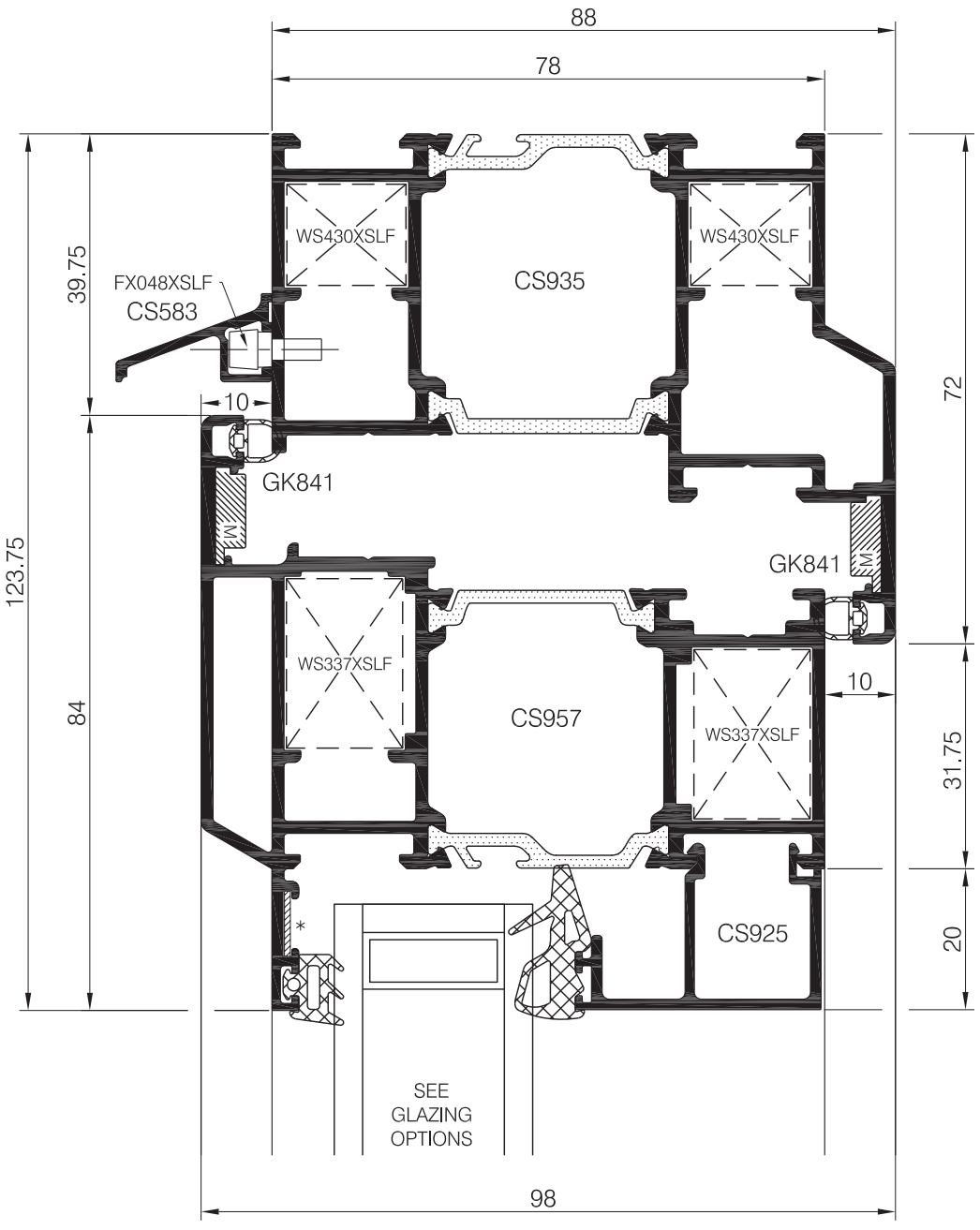
TITLE

PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No. **2.31**

SUB TITLE

CASEMENT WINDOWS
HEAD DETAILS - CS957 (84mm CASEMENT) / CS935 (OUTERFRAME)



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M DENOTES WS416XSLF ALIGNMENT SQUARE

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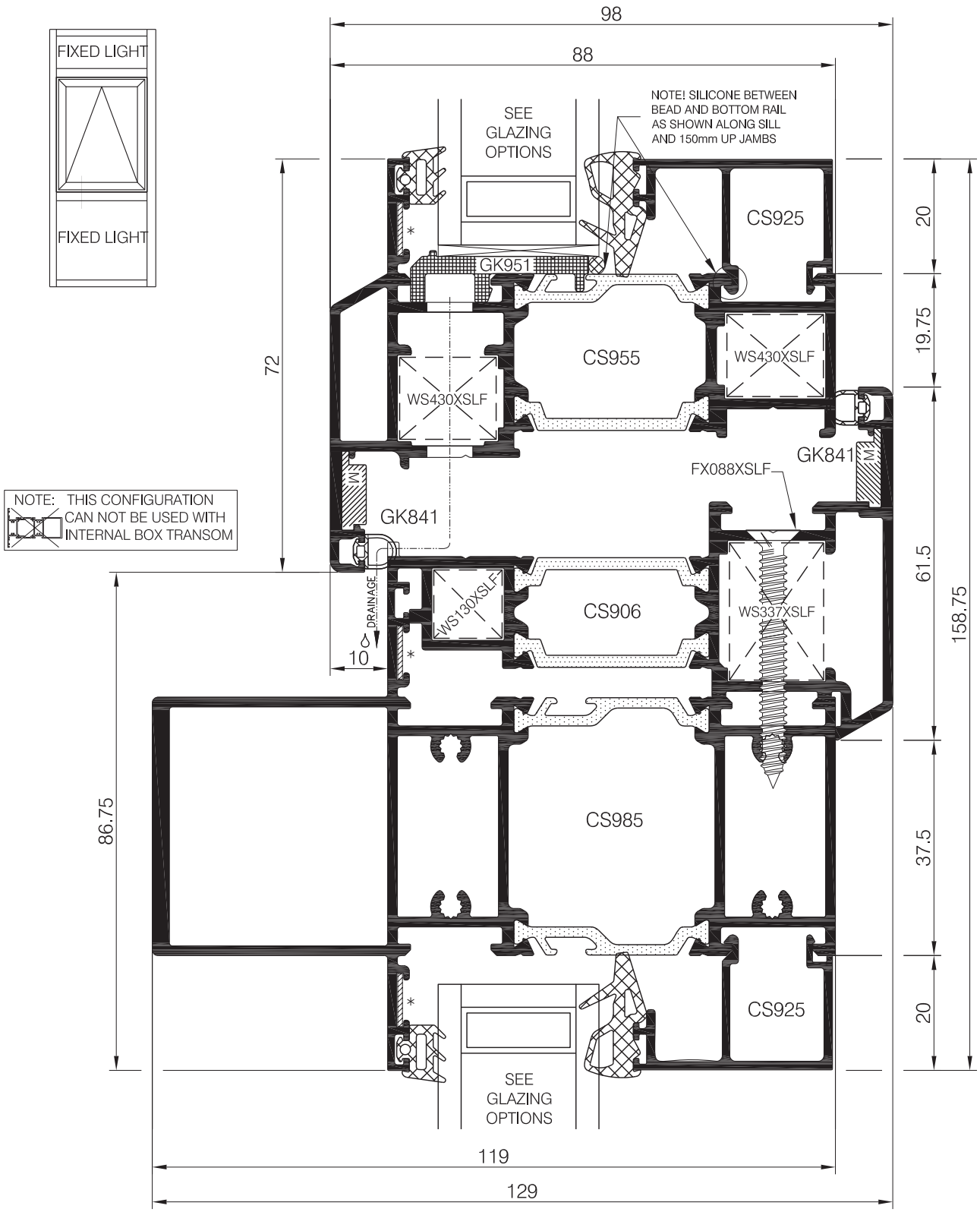
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comar9Pi

TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
2.32

SUB TITLE
CASEMENT WINDOWS
COUPLING WITH DEEP EXTERNAL BOX



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DATE	10–04–2010
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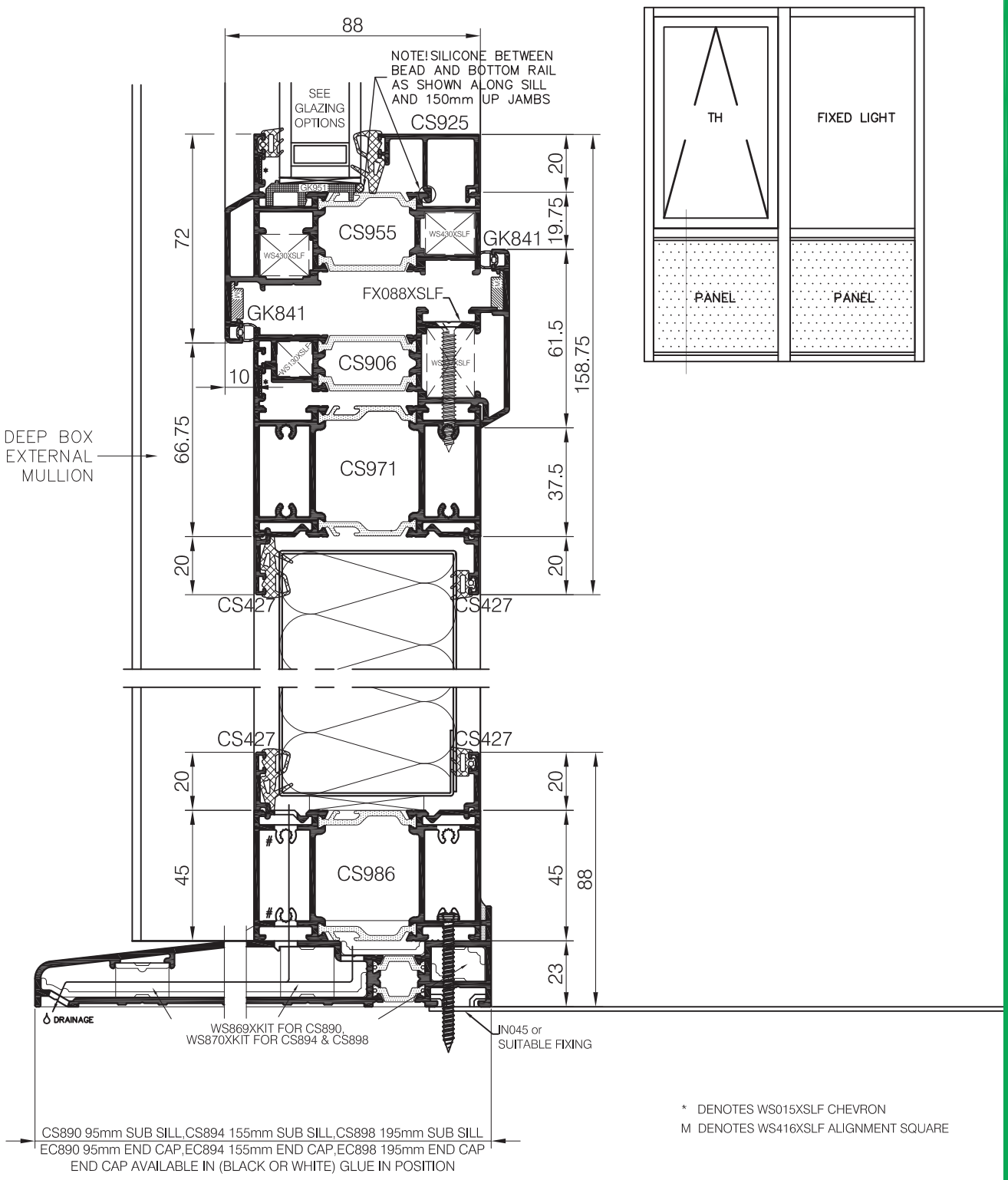
TITLE

PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No. **2.33**

SUB TITLE

CASEMENT WINDOWS
COUPLING WITH EXTERNALLY GLAZED IN PANEL DETAIL



CS890 95mm SUB SILL,CS894 155mm SUB SILL,CS898 195mm SUB SILL
EC890 95mm END CAP,EC894 155mm END CAP,EC898 195mm END CAP
END CAP AVAILABLE IN (BLACK OR WHITE) GLUE IN POSITION

* DENOTES WS015XSLF CHEVRON
M DENOTES WS416XSLF ALIGNMENT SQUARE

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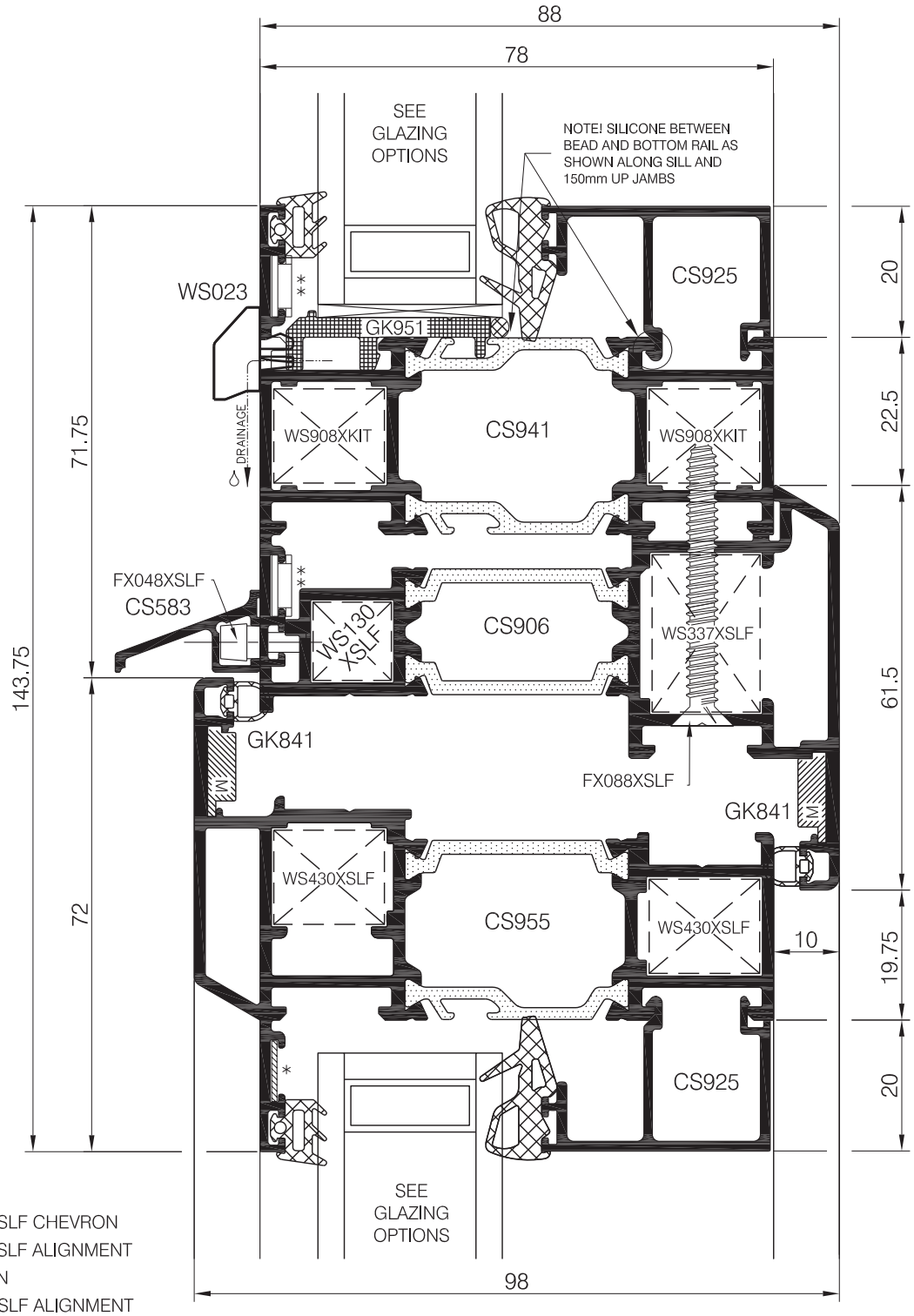
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TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
2.34

SUB TITLE
CASEMENT WINDOWS
HEAD DETAILS WITH FIXED LIGHT



* DENOTES WS015XSLF CHEVRON
** DENOTES WS916XSLF ALIGNMENT TRANSOM/MULLION
M DENOTES WS416XSLF ALIGNMENT SQUARE

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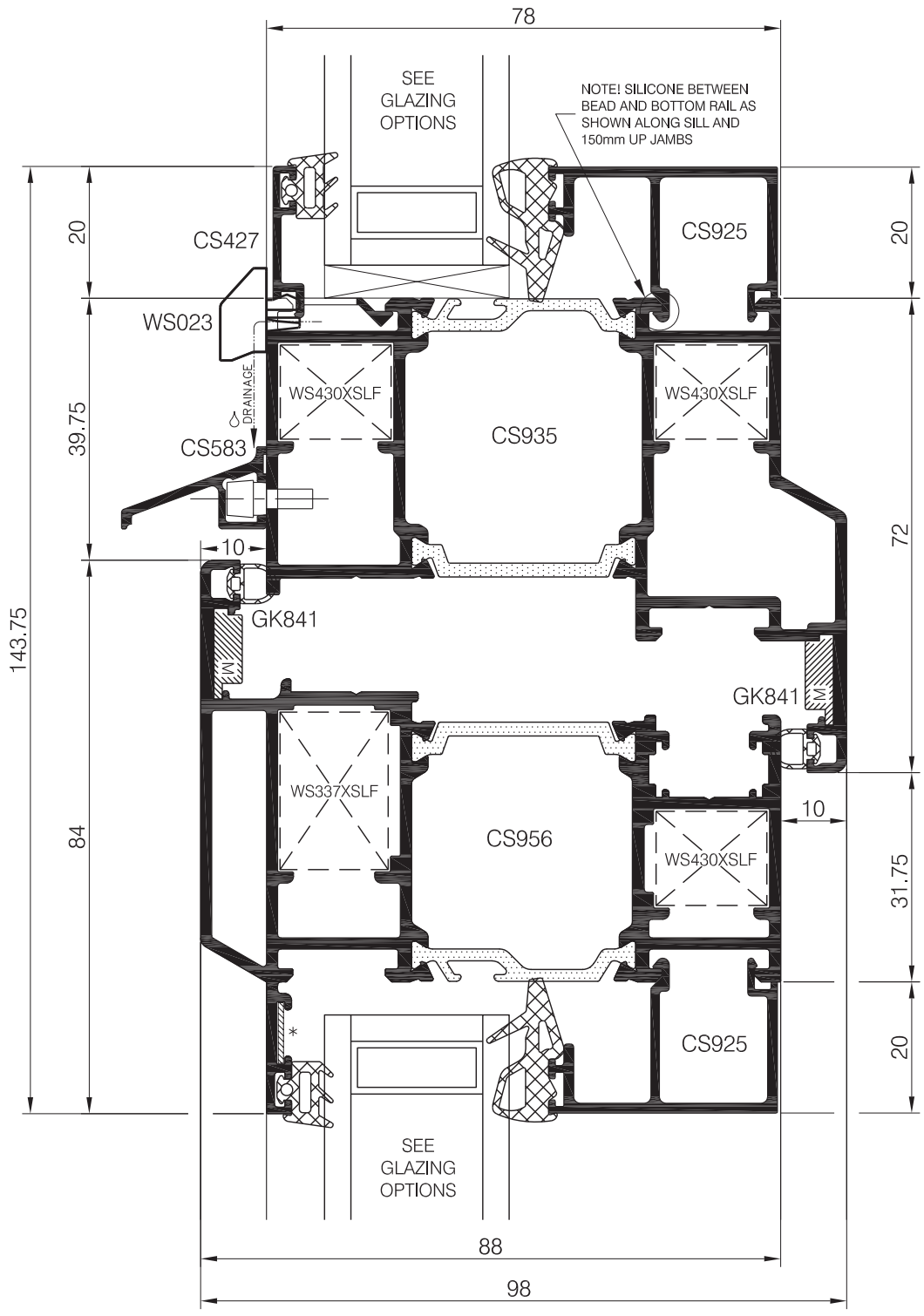
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DRG. No.	C9-Pi-PF-CW 2.34

comar9Pi

TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
2.35

SUB TITLE
CASEMENT WINDOWS
HEAD DETAILS WITH FIXED LIGHT - INT./EXT. BEADED



* DENOTES WS015XSLF CHEVRON

M DENOTES WS416XSLF ALIGNMENT SQUARE

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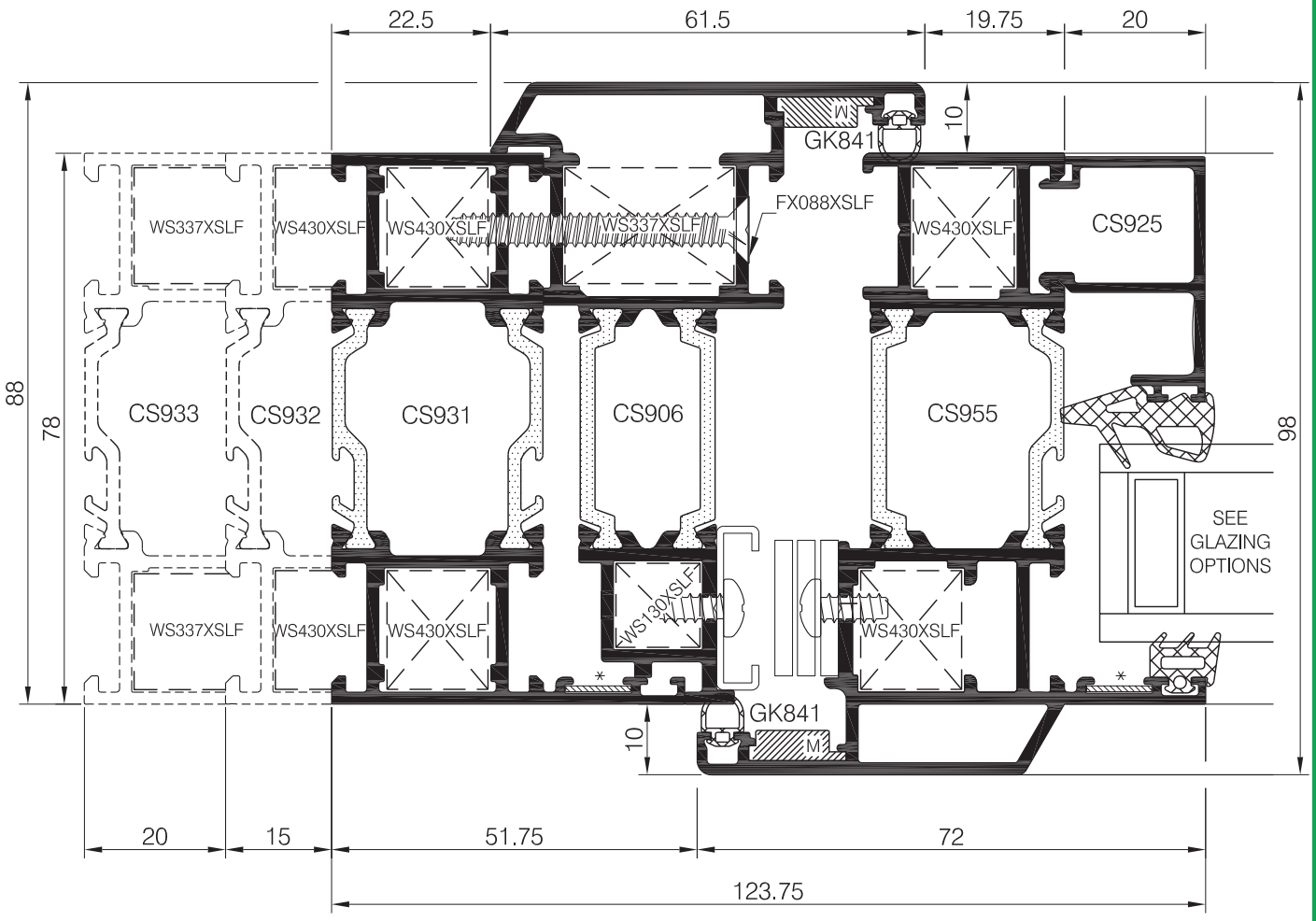
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DRG. No.	C9-Pi-PF-CW 2.35

comar9Pi

TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
2.36

SUB TITLE
CASEMENT WINDOWS
JAMB DETAILS -CS955(72mm CASEMENT)/CS906(REVERSE ADAPTOR)



* DENOTES WS015XSLF CHEVRON

M DENOTES WS416XSLF ALIGNMENT SQUARE

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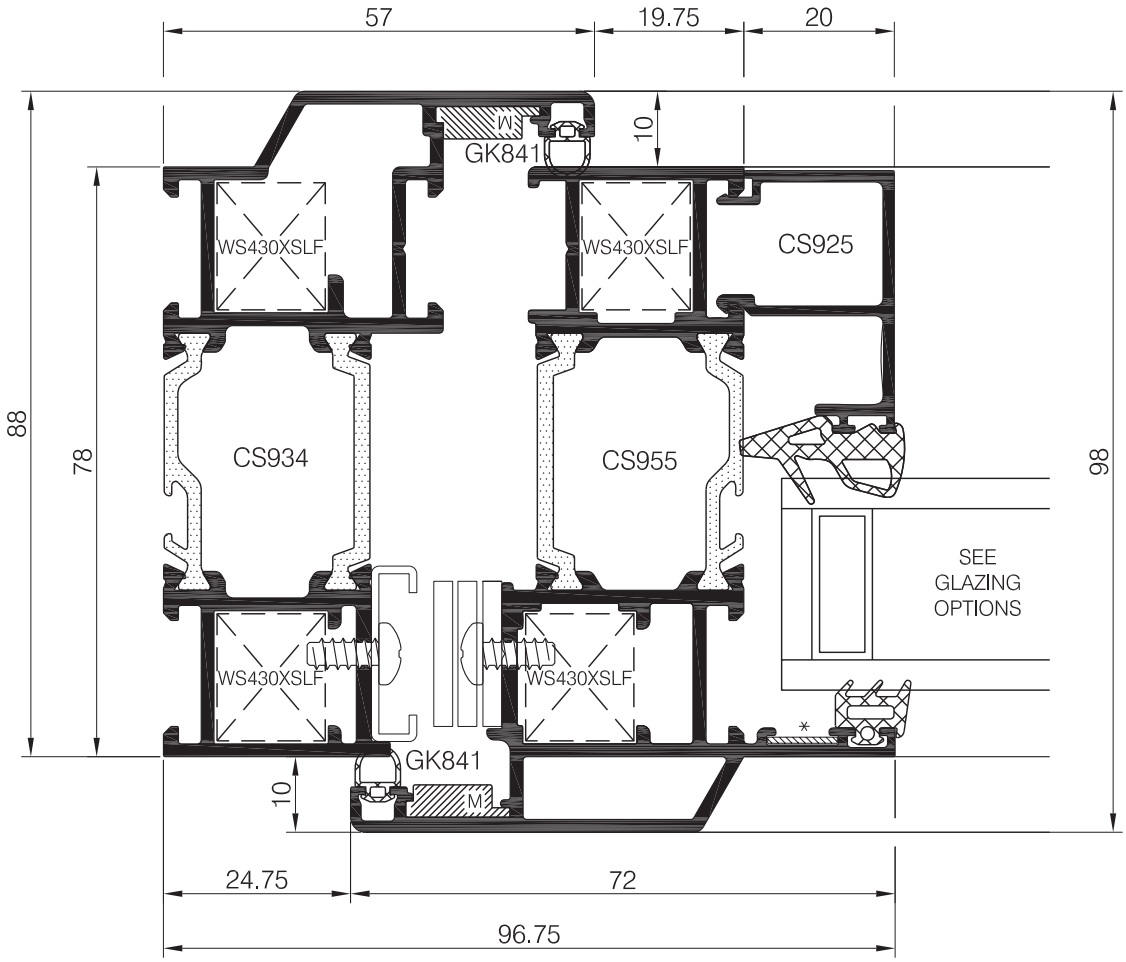
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DRG. No.	C9-Pi-PF-CW 2.36

comar9Pi

TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
2.37

SUB TITLE
CASEMENT WINDOWS
JAMB DETAILS - CS955 (72mm CASEMENT) / CS934 (OUTERFRAME)



* DENOTES WS015XSLF CHEVRON

M DENOTES WS416XSLF ALIGNMENT SQUARE

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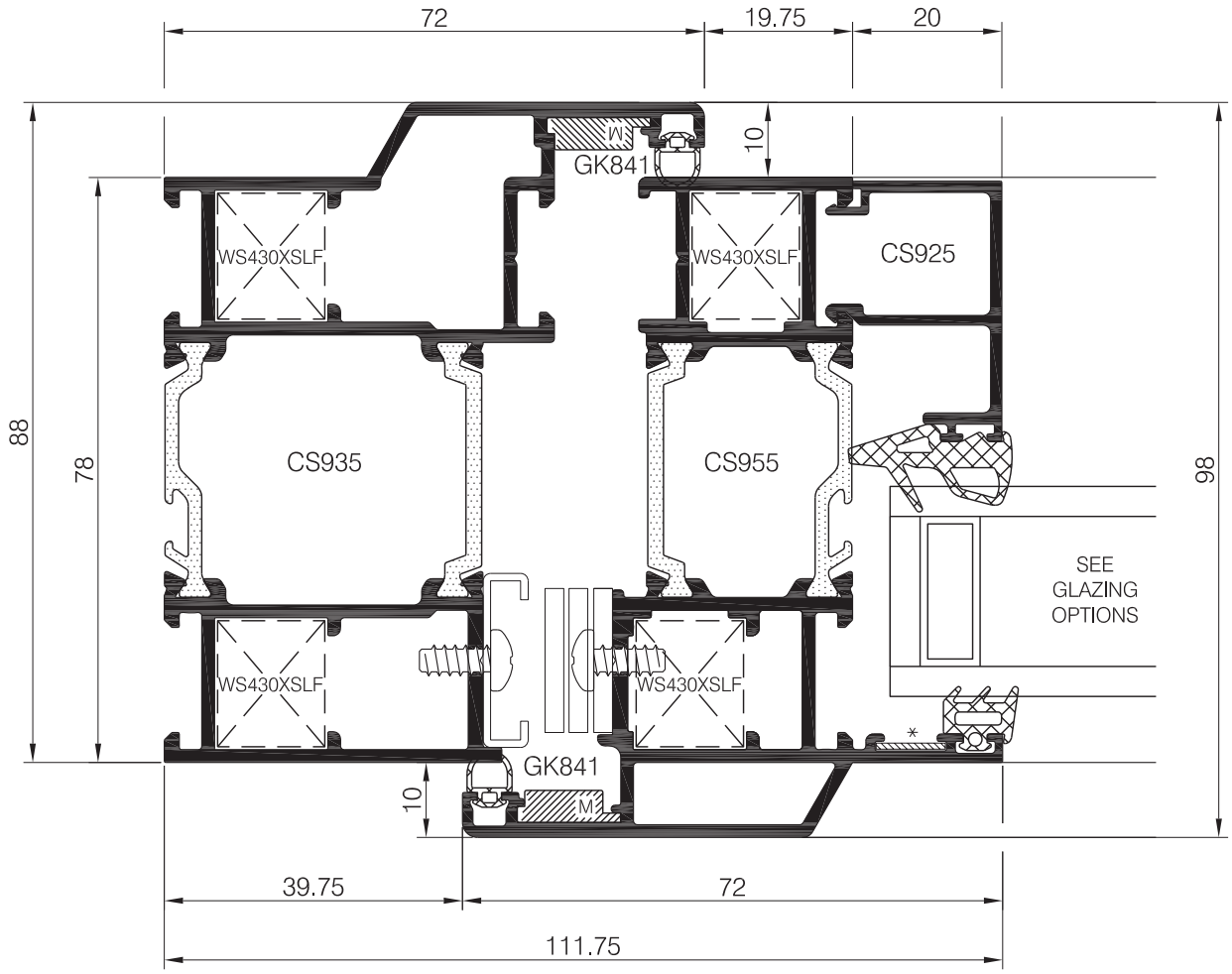
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comar9Pi

TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
2.38

SUB TITLE
CASEMENT WINDOWS
JAMB DETAILS- CS955 (72mm CASEMENT) / CS935 (OUTERFRAME)



* DENOTES WS015XSLF CHEVRON

M DENOTES WS416XSLF ALIGNMENT SQUARE

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DRG. No.	C9-Pi-PF-CW 2.38

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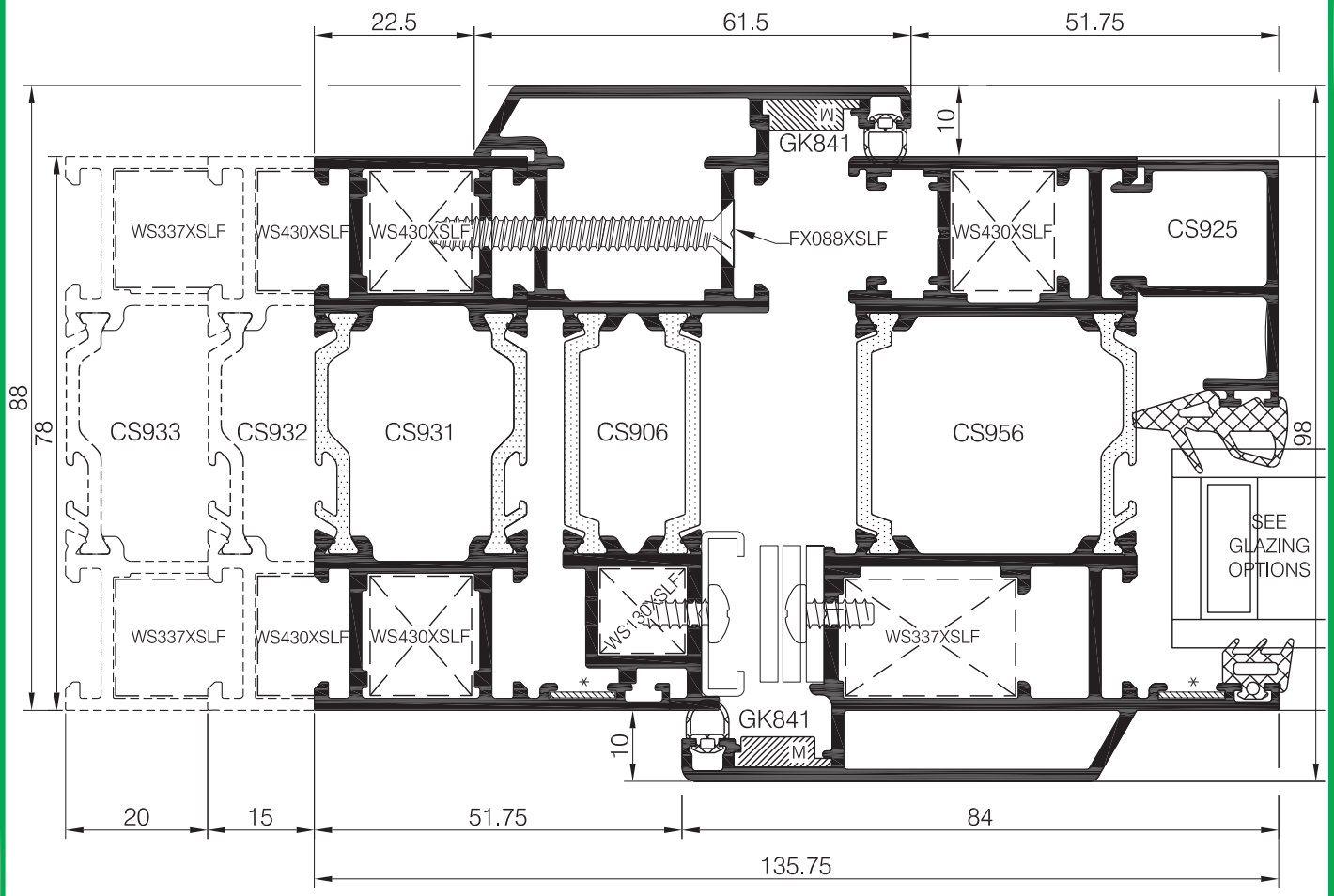
TITLE

PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No. **2.39**

SUB TITLE

CASEMENT WINDOWS
JAMB DETAILS -CS956(84mm CASEMENT)/CS906(REVERSE ADAPTOR)



* DENOTES WS015XSLF CHEVRON

M DENOTES WS416XSLF ALIGNMENT SQUARE

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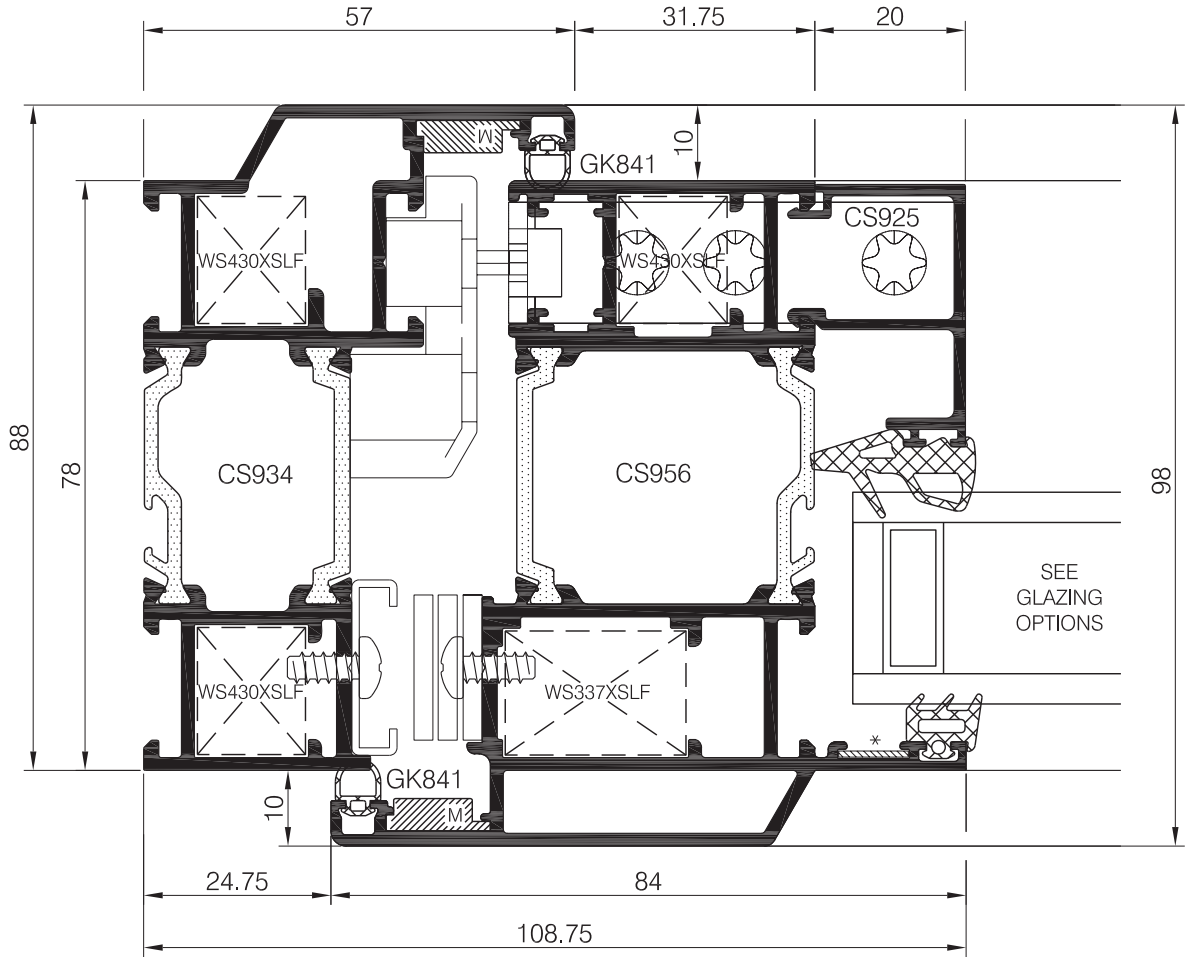
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DRG. No.	C9-Pi-PF-CW 2.39

comar9Pi

TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
2.40

SUB TITLE
CASEMENT WINDOWS
JAMB DETAILS - CS956 (84mm CASEMENT) / CS934 (OUTERFRAME)



* DENOTES WS015XSLF CHEVRON

M DENOTES WS416XSLF ALIGNMENT SQUARE

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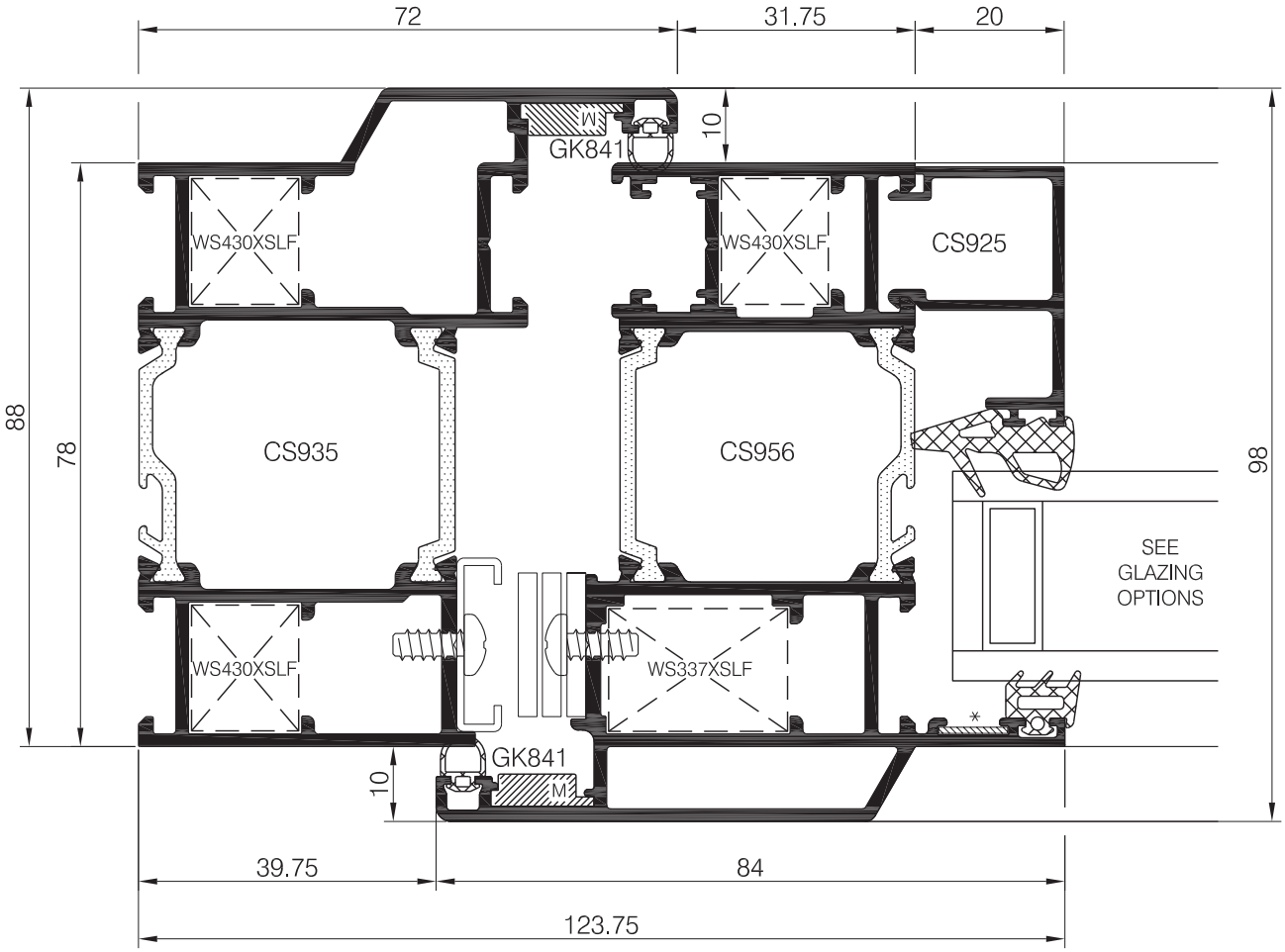
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comar9Pi

TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
2.41

SUB TITLE
CASEMENT WINDOWS
JAMB DETAILS - CS956 (84mm CASEMENT) / CS935 (OUTERFRAME)



* DENOTES WS015XSLF CHEVRON

M DENOTES WS416XSLF ALIGNMENT SQUARE

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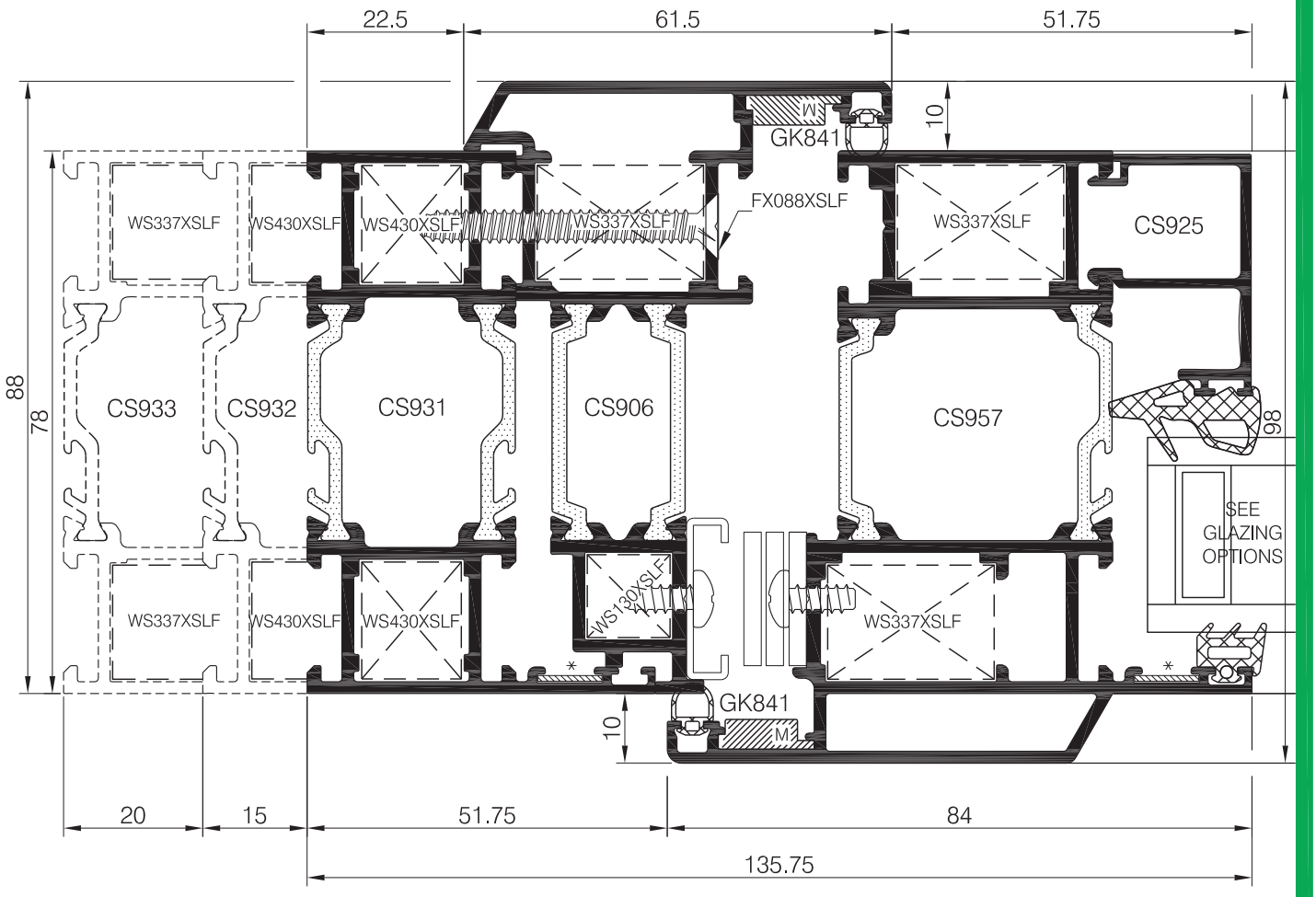
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DATE	10-04-2010
DRAWN	OP / CAD
DRG. No.	C9-Pi-PF-CW 2.41

comar9Pi

TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
2.42

SUB TITLE
CASEMENT WINDOWS
JAMB DETAILS -CS957(84mm CASEMENT)/CS906(REVERSE ADAPTOR)



* DENOTES WS015XSLF CHEVRON

M DENOTES WS416XSLF ALIGNMENT SQUARE

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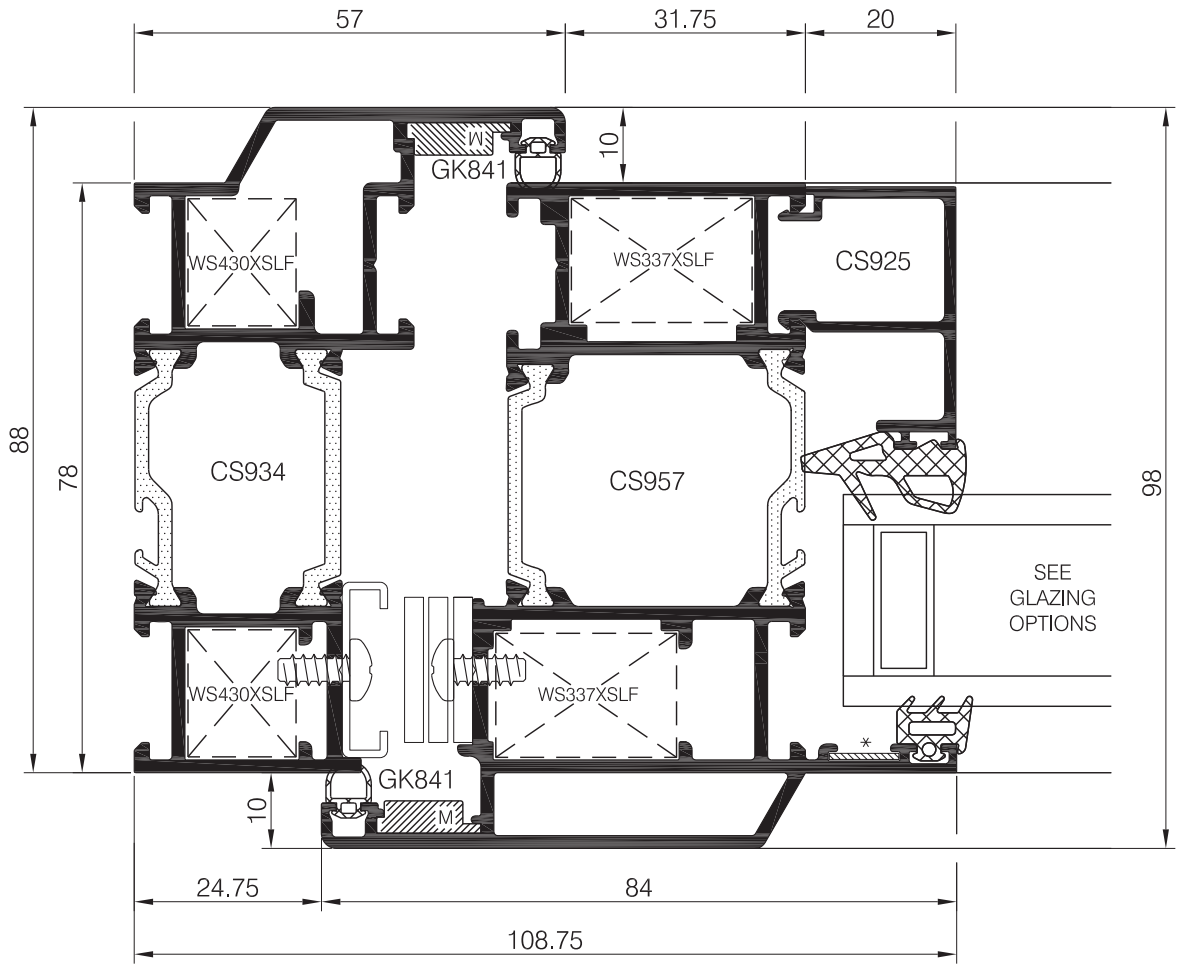
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comar9Pi

TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
2.43

SUB TITLE
CASEMENT WINDOWS
JAMB DETAILS - CS957 (84mm CASEMENT) / CS934 (OUTERFRAME)



* DENOTES WS015XSLF CHEVRON

M DENOTES WS416XSLF ALIGNMENT SQUARE

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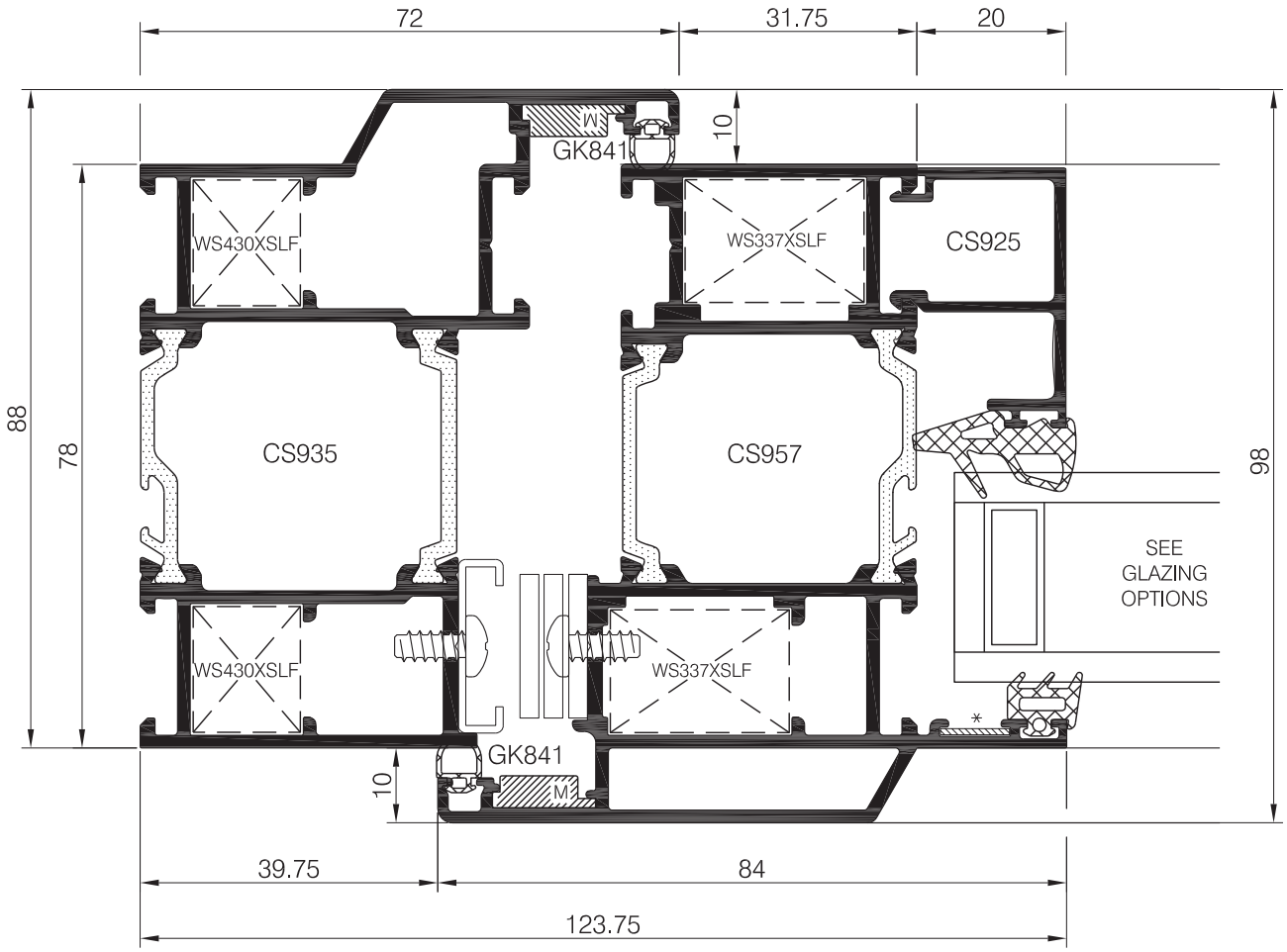
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DRG. No.	C9-Pi-PF-CW 2.43

comar9Pi

TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
2.44

SUB TITLE
CASEMENT WINDOWS
JAMB DETAILS - CS957 (84mm CASEMENT) / CS935 (OUTERFRAME)



* DENOTES WS015XSLF CHEVRON
M DENOTES WS416XSLF ALIGNMENT SQUARE

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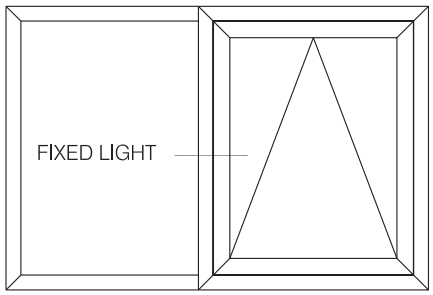
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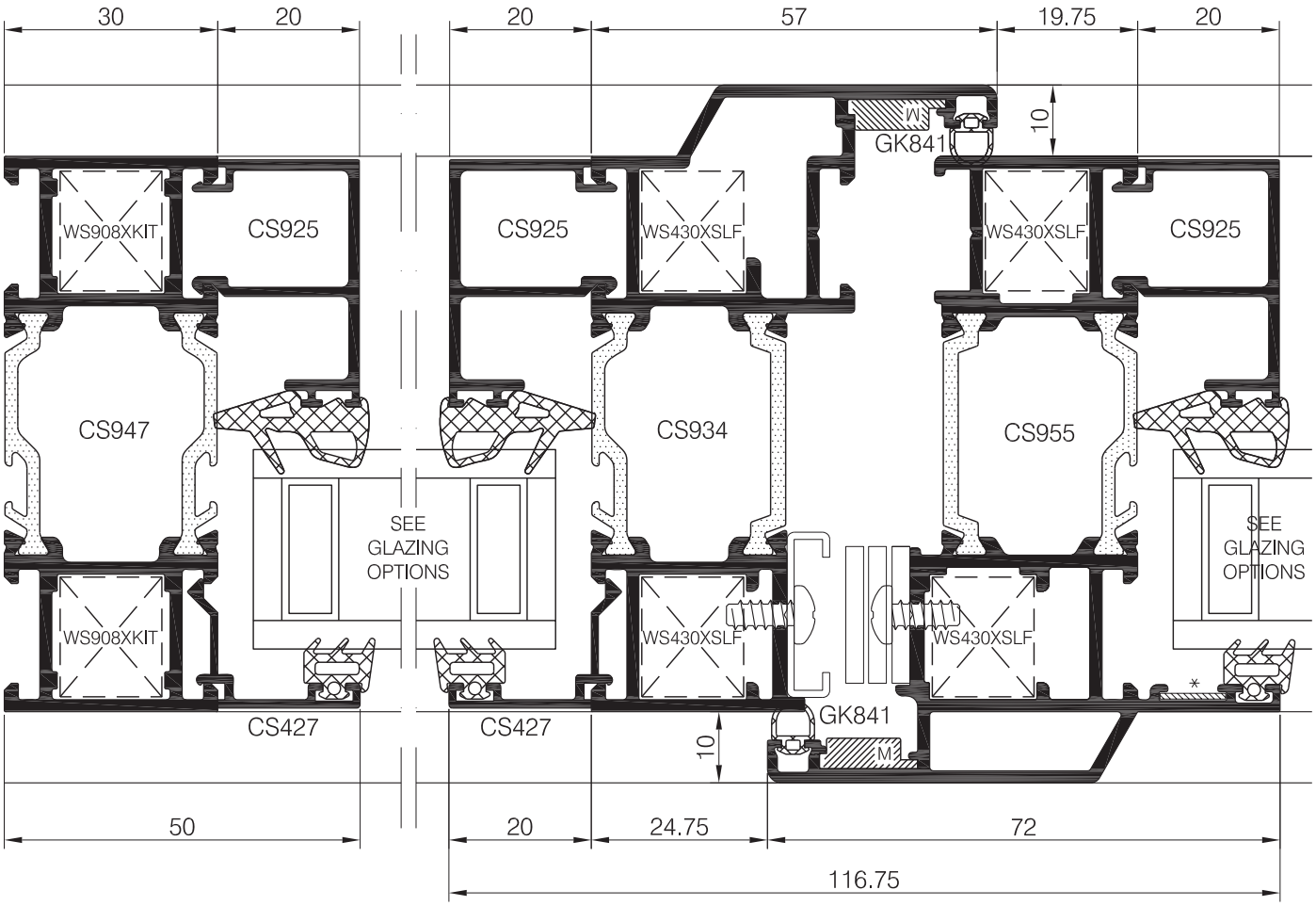
comar9Pi

TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
2.45

SUB TITLE
CASEMENT WINDOWS
JAMB COUPLING DETAILS WITH FIXED LIGHT - CS955 / CS934





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M DENOTES WS416XSLF ALIGNMENT SQUARE

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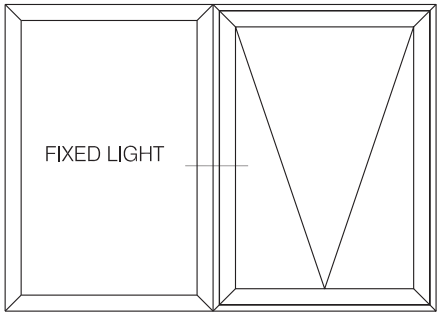
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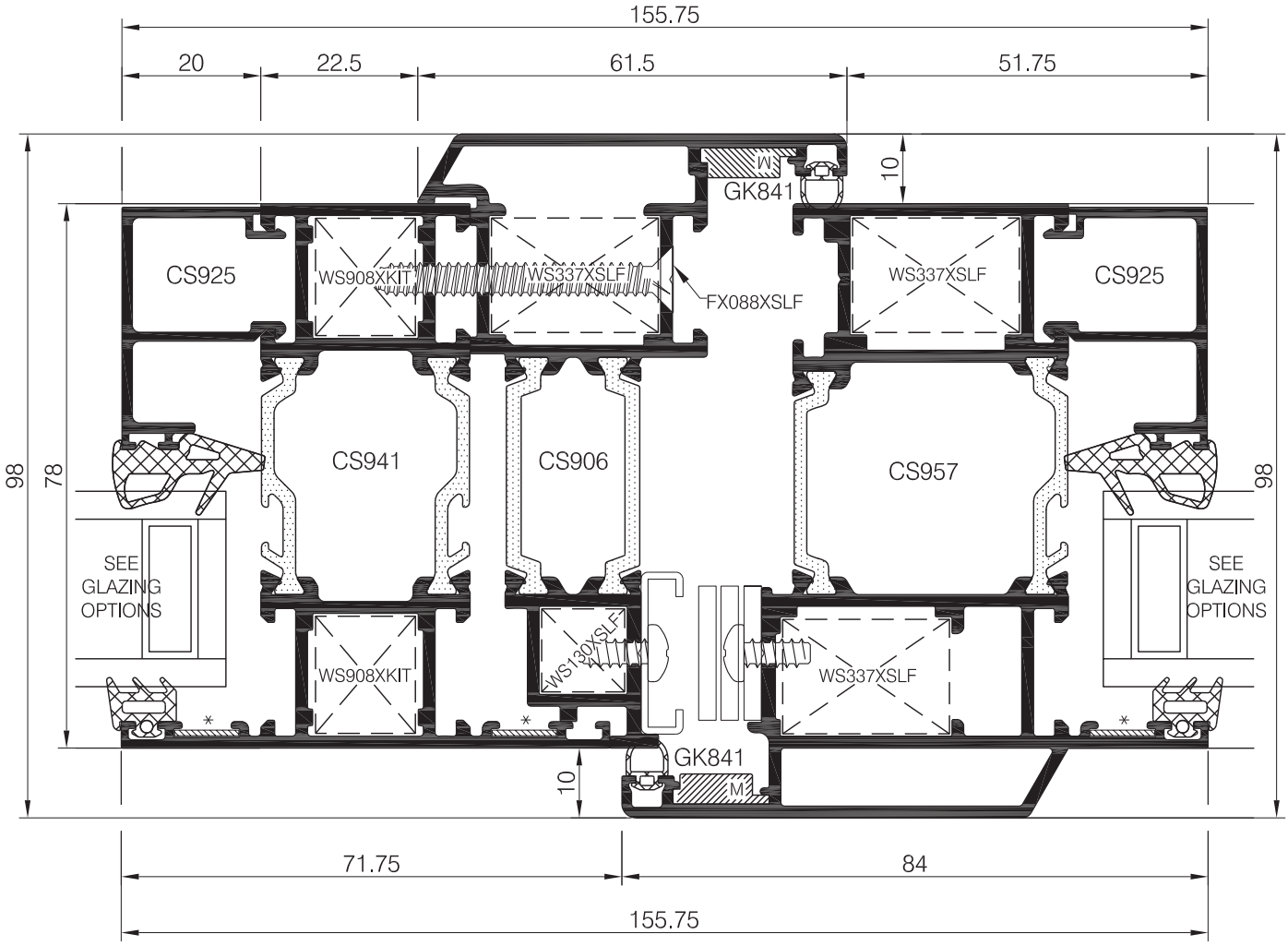
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No. **2.46**

SUB TITLE

CASEMENT WINDOWS
JAMB COUPLING DETAILS WITH FIXED LIGHT - CS957 / CS906





* DENOTES WS015XSLF CHEVRON

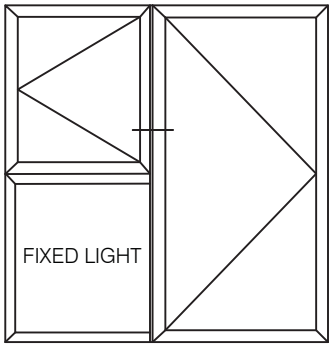
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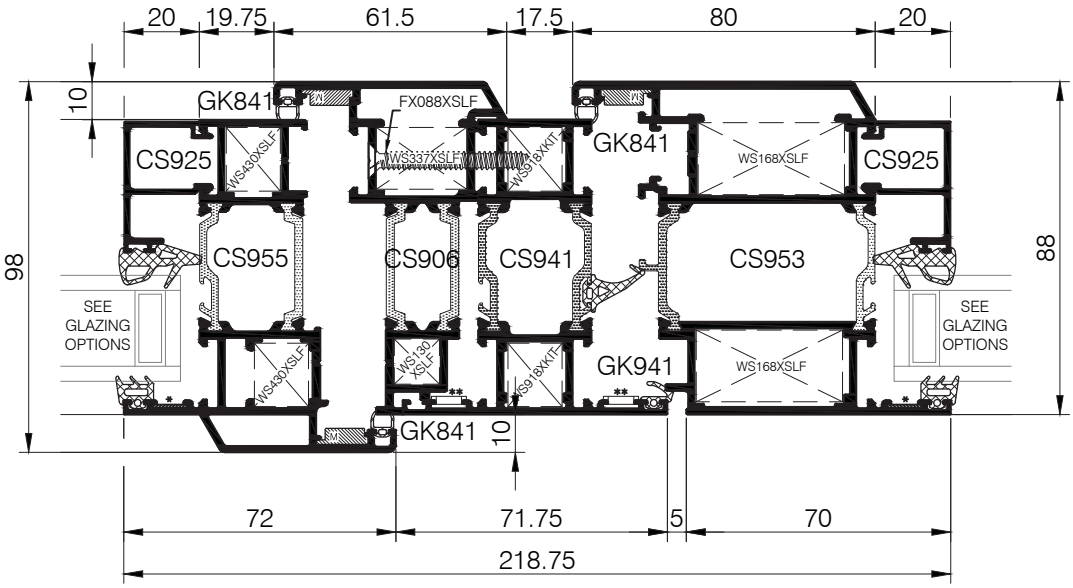
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DATE	10-04-2010
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DRG. No.	C9-Pi-PF-CW 2.46





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** DENOTES WS916XSLF ALIGNMENT
M DENOTES WS416XSLF ALIGNMENT SQUARE

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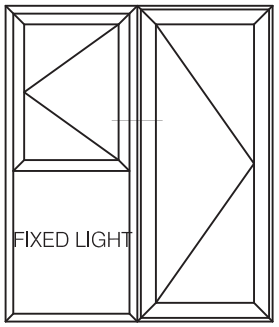
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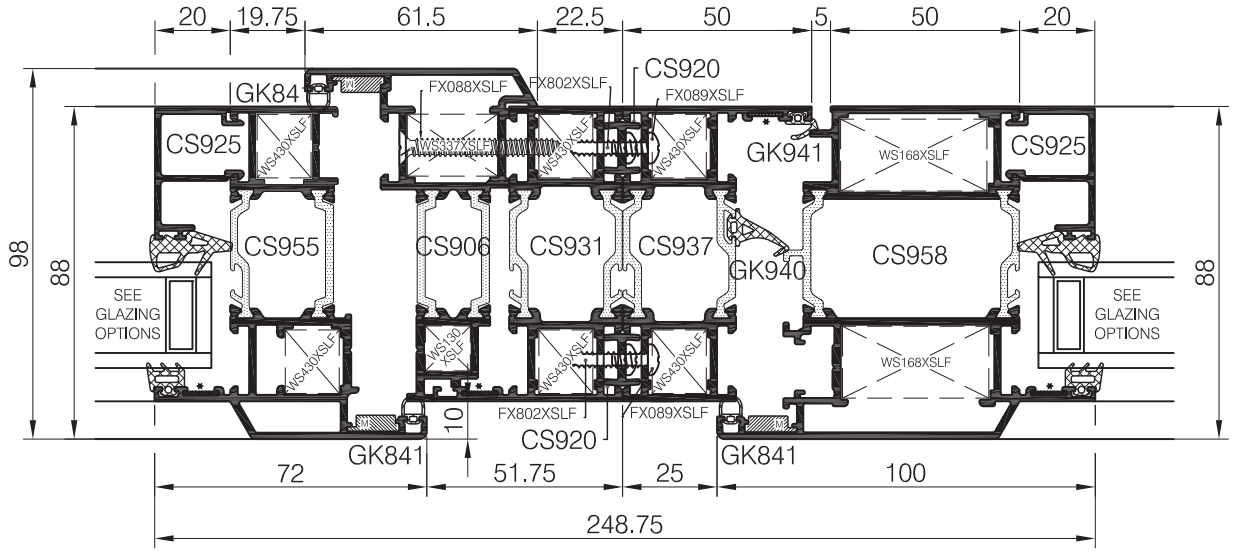
comar9Pi

TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
2.48

SUB TITLE
CASEMENT WINDOWS
JAMB DETAILS - VENT FITTED WITH DOOR OPEN OUT





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M DENOTES WS416XSLF ALIGNMENT SQUARE

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DATE	10–04–2010
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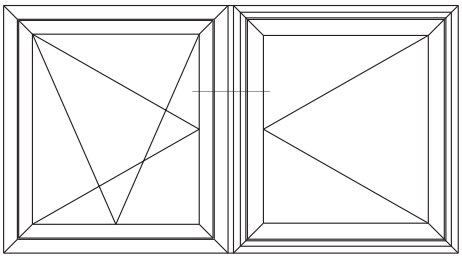
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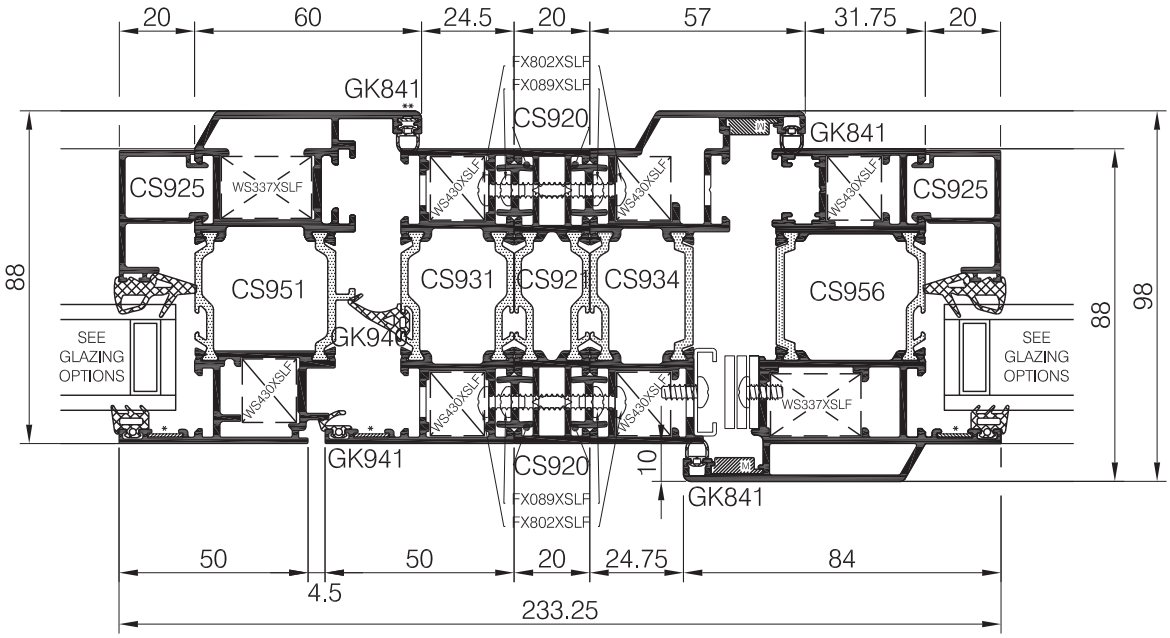
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No. **2.49**

SUB TITLE

CASEMENT WINDOWS
COUPLING JAMB DETAILS - CS956 (CASEMENT) / CS951 (TILT TURN)





* DENOTES WS015XSLF CHEVRON
** DENOTES WS515XSLF CHEVRON
M DENOTES WS416XSLF ALIGNMENT SQUARE

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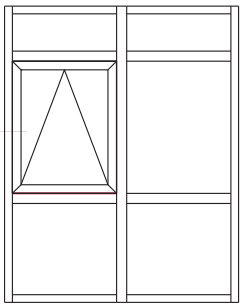
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PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

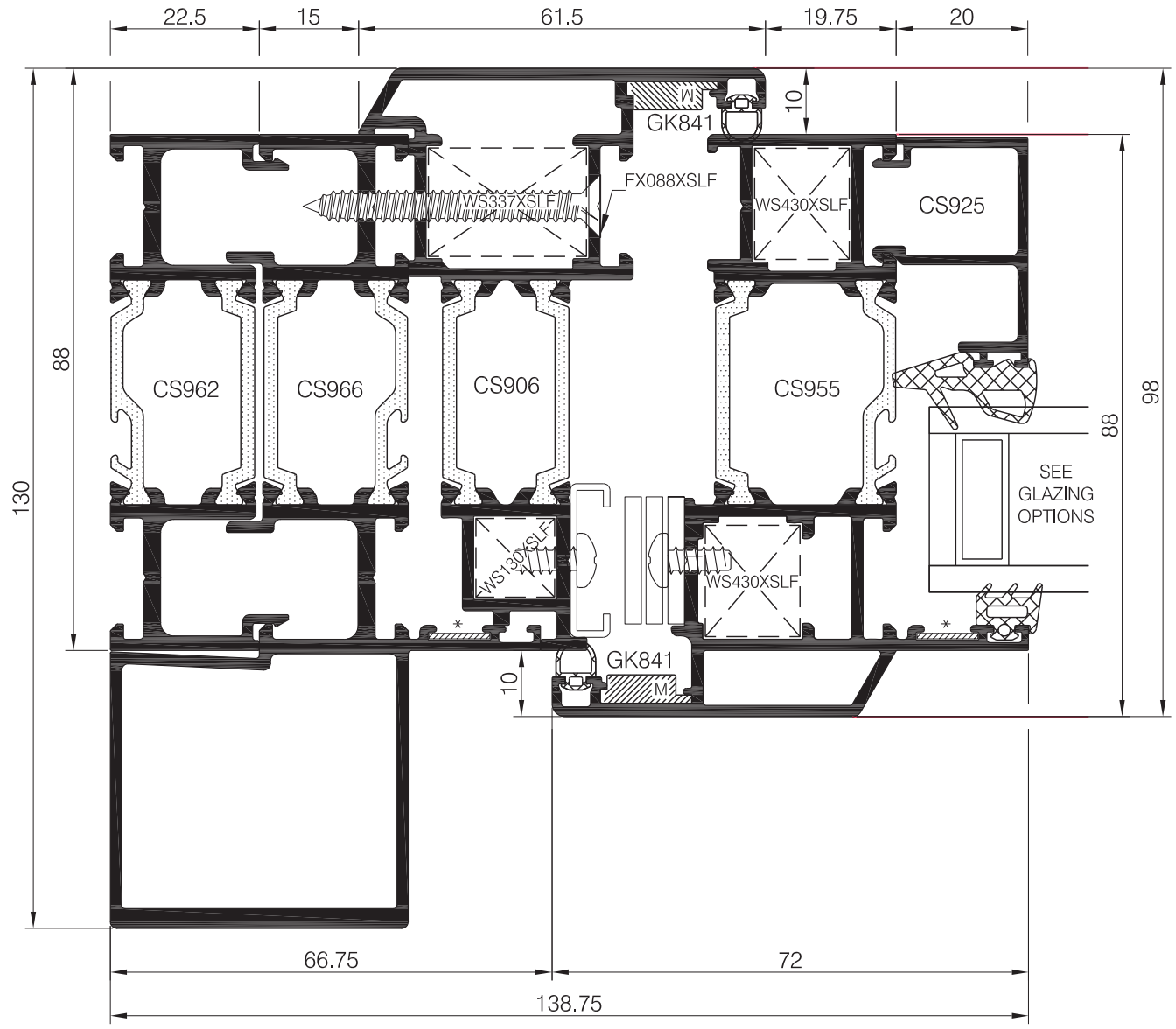
SHEET No. **2.50**

SUB TITLE

CASEMENT WINDOWS
COUPLING JAMB WITH DEEP BOX EXTERNAL MULLION



NOTE: CONFIGURATION SHOWN CAN NOT BE USED WITH INTERNAL BOX MULLION



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M DENOTES WS416XSLF ALIGNMENT SQUARE

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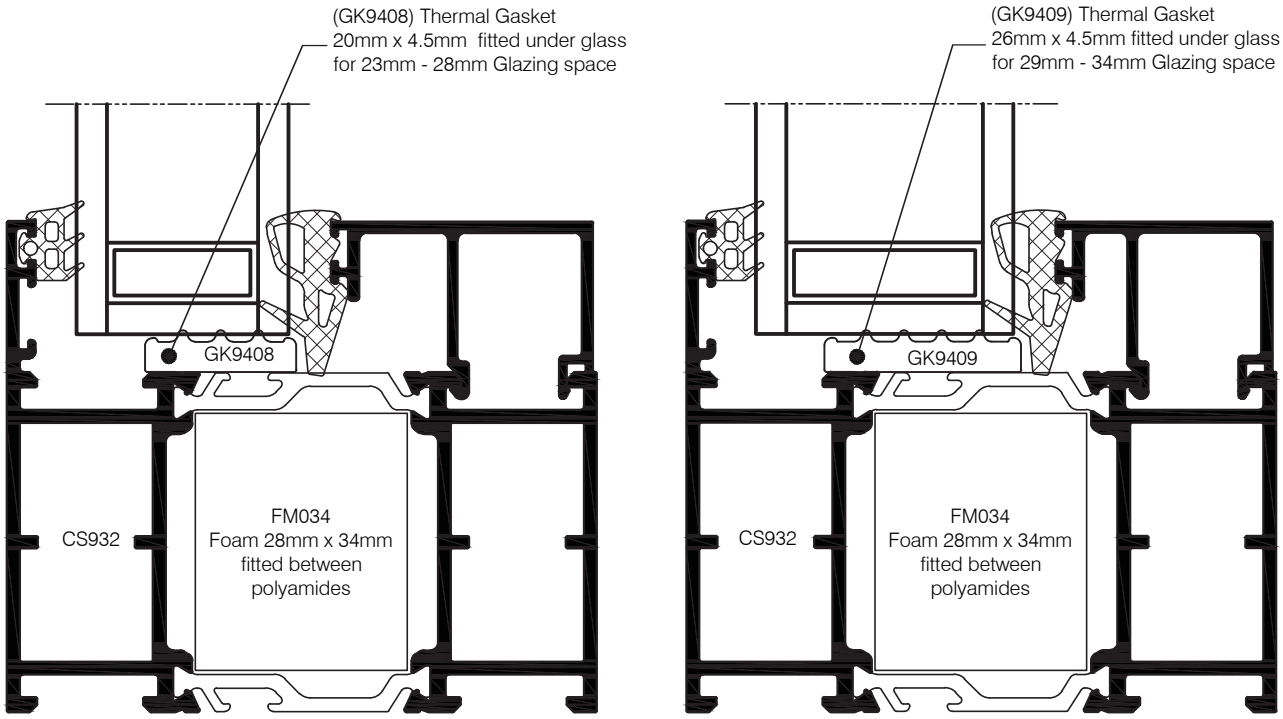
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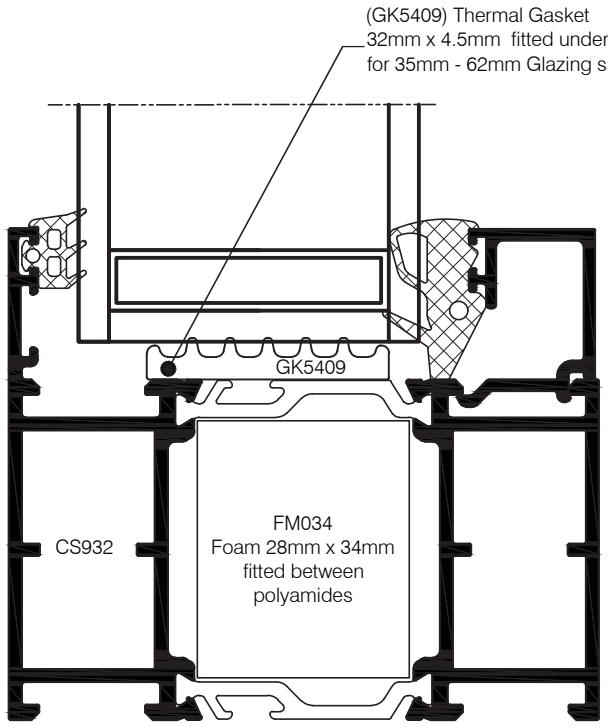
comar 9P.i

TITLE **PERFORMANCE FRAMING SYSTEM**
FRAMING, WINDOWS & DOORS

SHEET No. **2.51**

SUB TITLE **CASEMENT WINDOW**
GLAZING FOAM LOCATION





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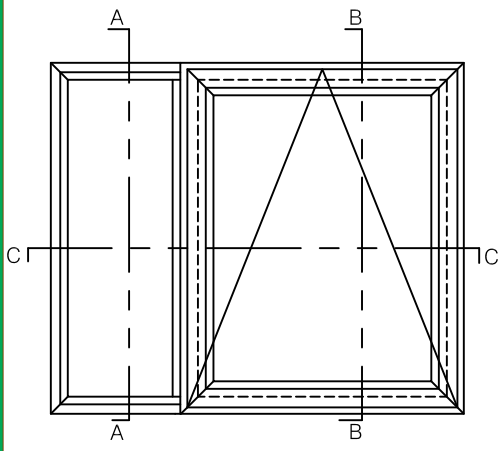
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comar 9Pi

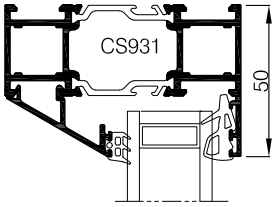
TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
2.52

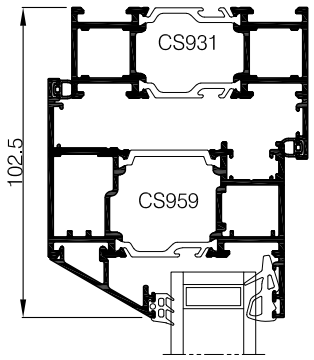
SUB TITLE
CASEMENT WINDOWS
EXTERNALLY BEADED CS959 VIEW AND SECTIONS

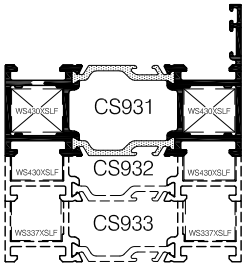


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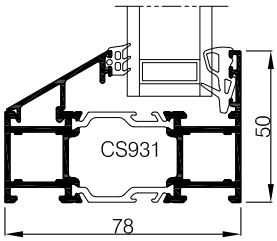


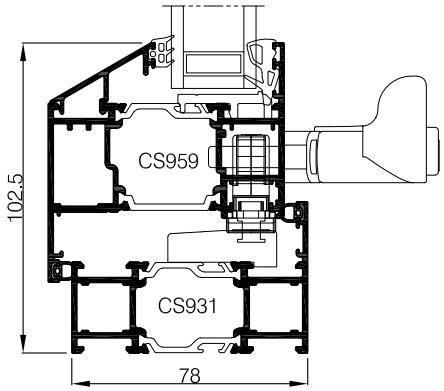
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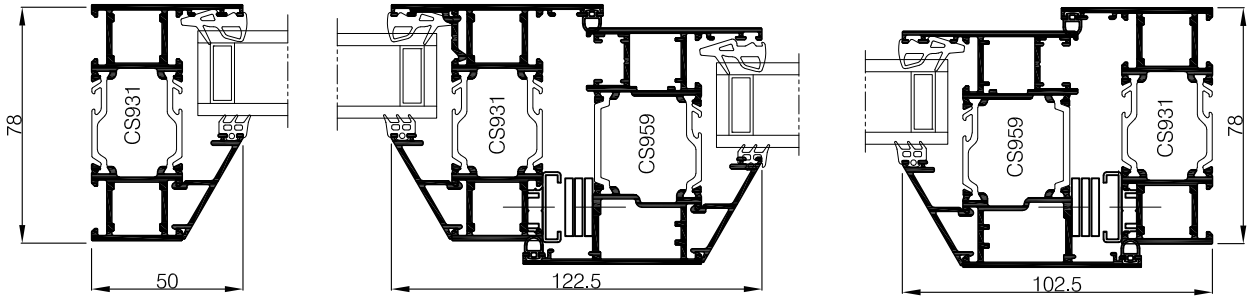


Alternative outer frame options are available including: CS931, CS932, CS933, CS940, CS941,CS942, CS943,CS977, CS938.





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DATE	13/10/2020
DRAWN	NRA
DRG. No.	C9–Pi–PF–CW 2.52 R2

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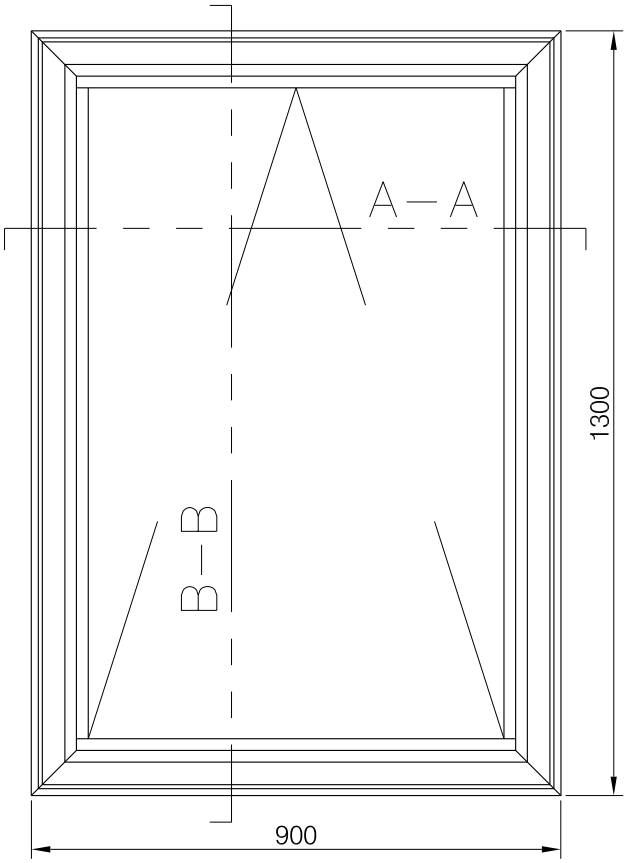
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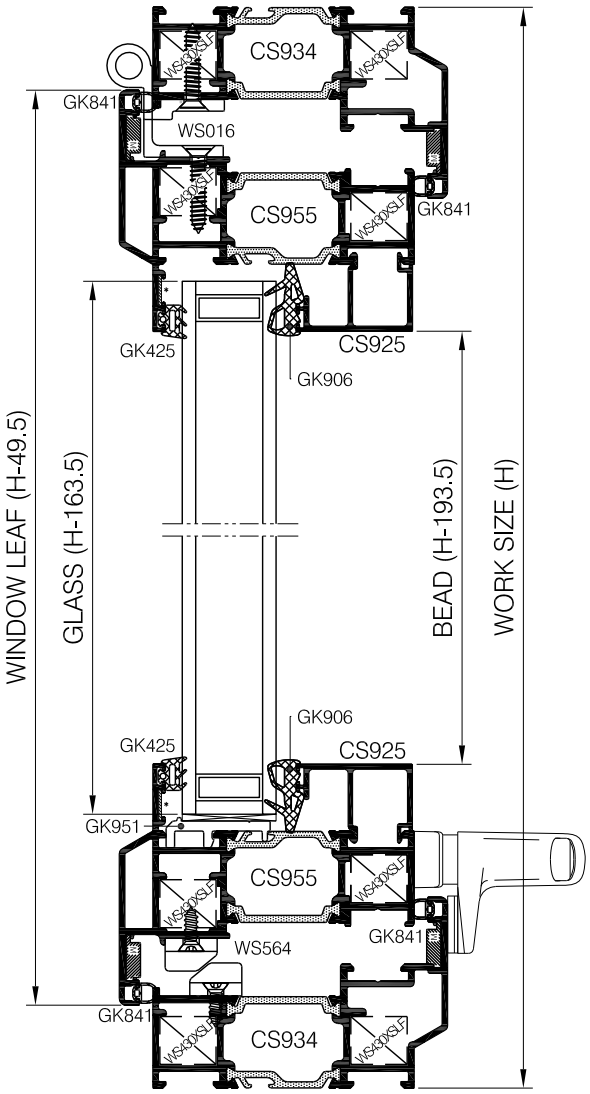
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

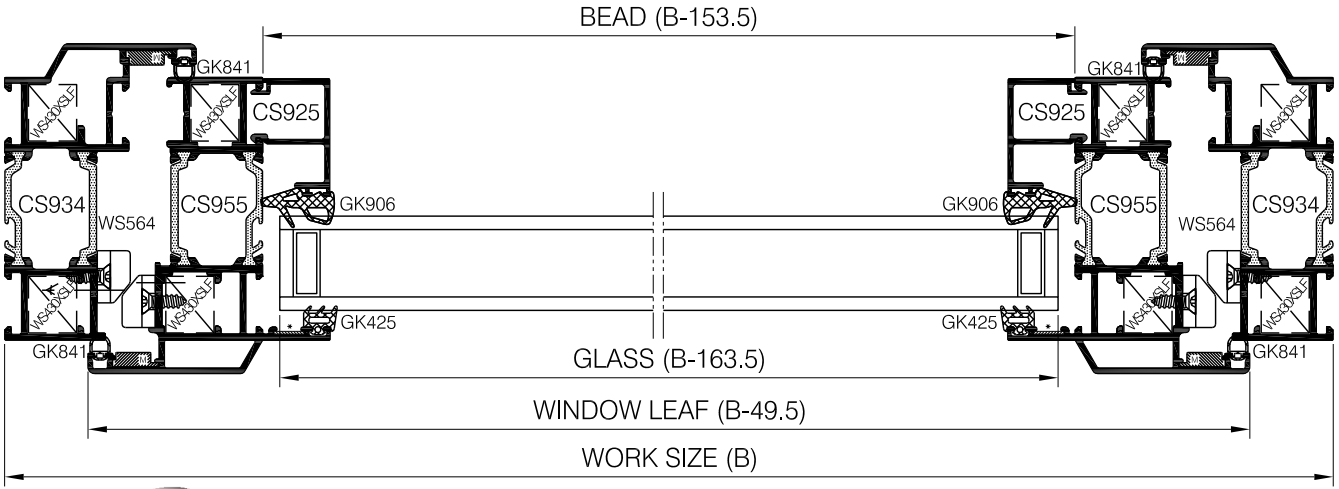
SHEET No. **3.01**

SUB TITLE

CASEMENT WINDOWS
CUTTING LIST - CS955 (COCKSPUR HANDLE)







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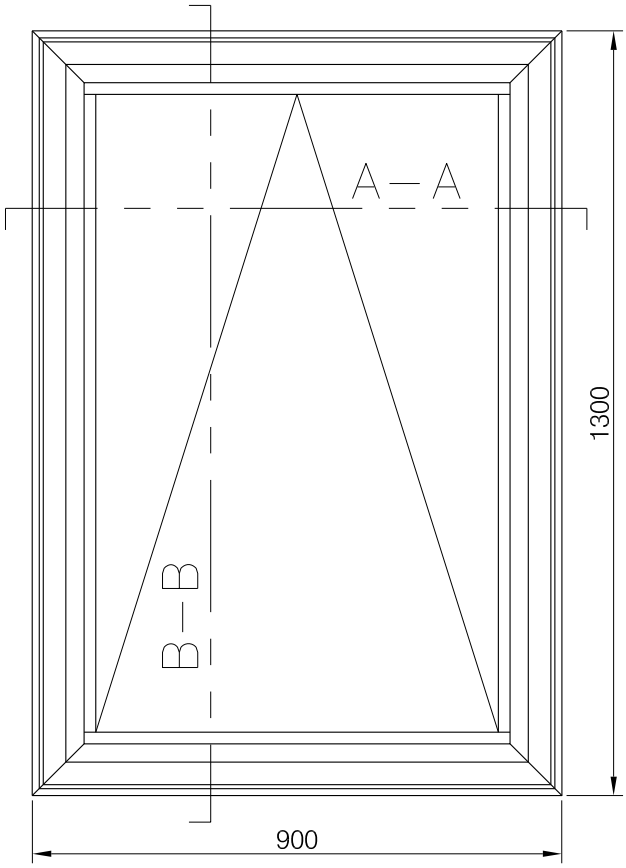
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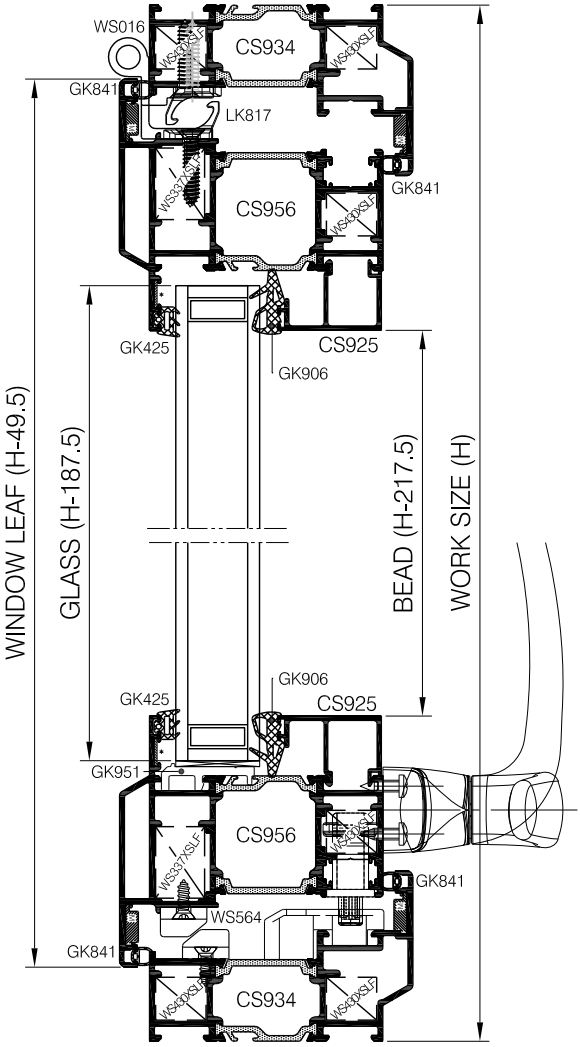
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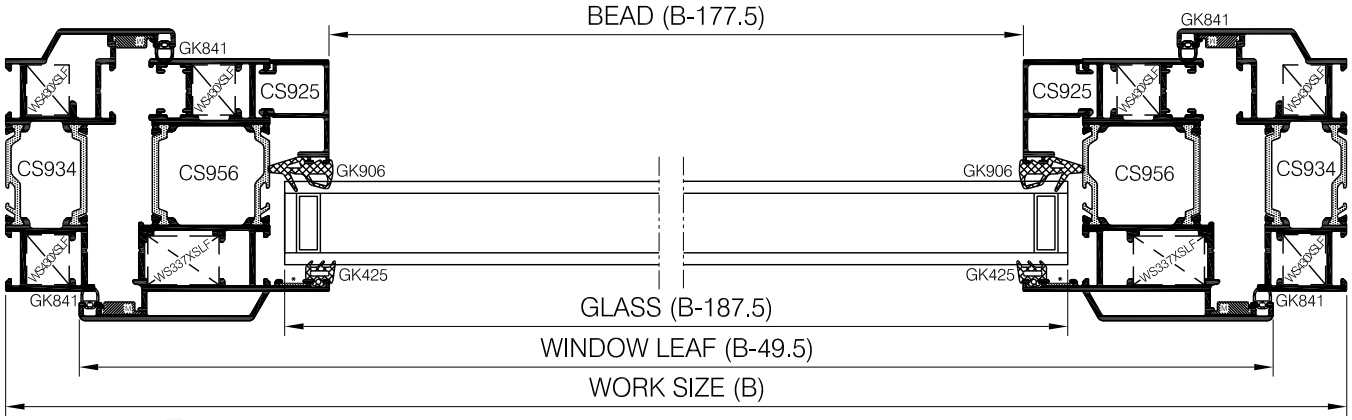
TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
3.02

SUB TITLE
CASEMENT WINDOWS
CUTTING LIST - CS956 (SHOOTBOLT HANDLE)







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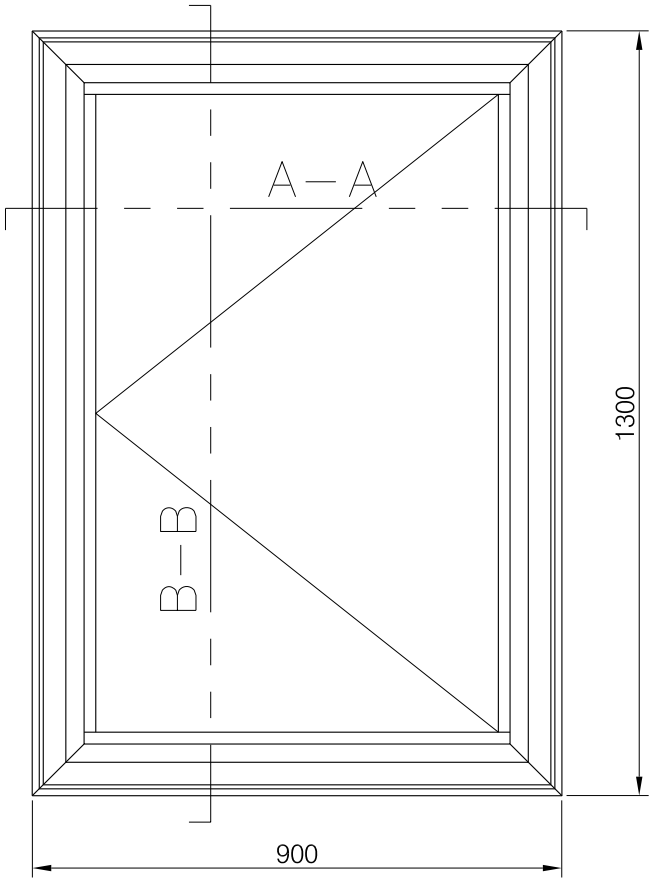
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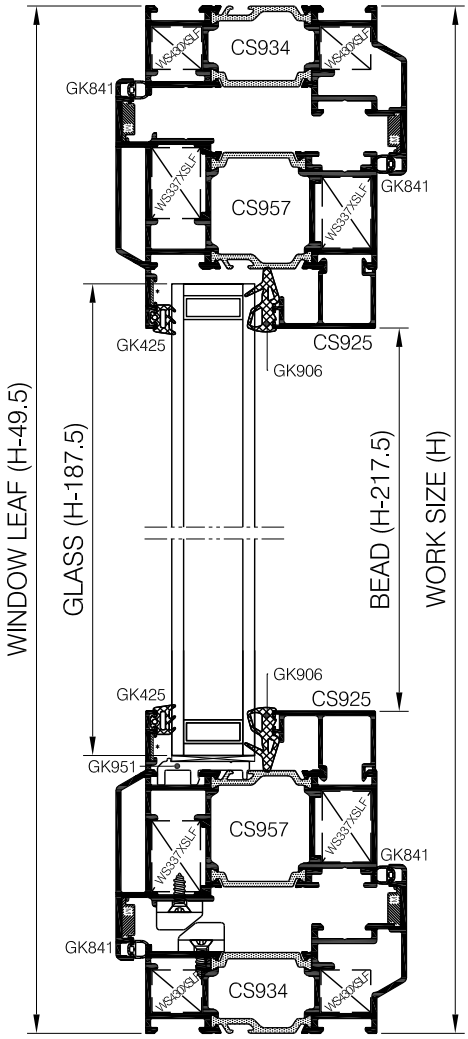
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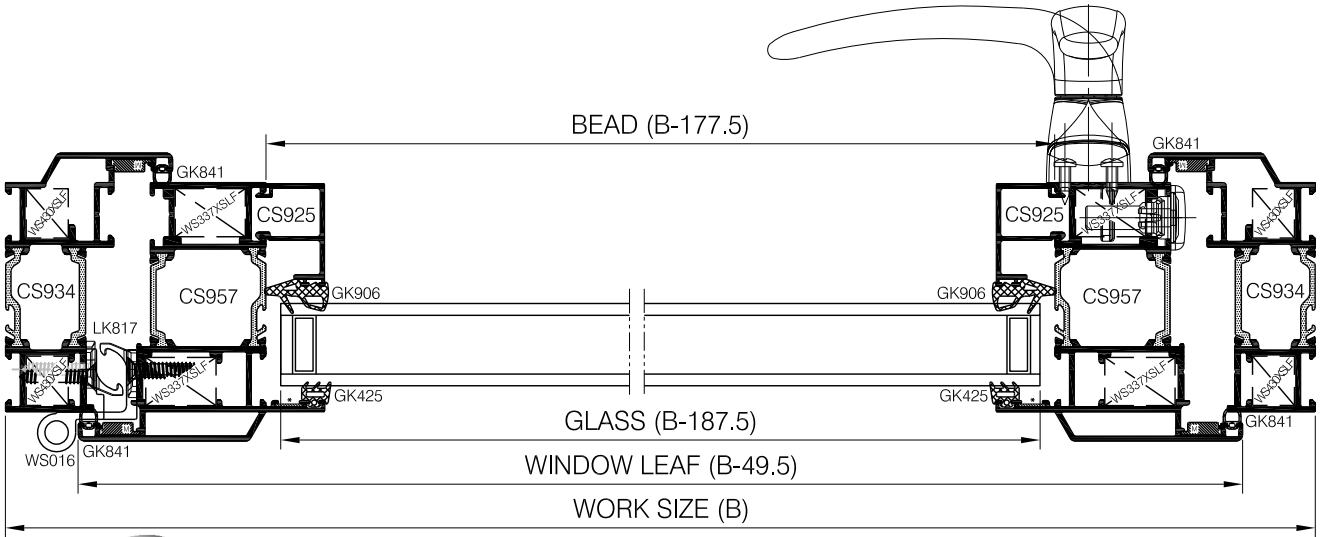
TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
3.03

SUB TITLE
CASEMENT WINDOWS
CUTTING LIST - CS957 (PERIMETER LOCKING)







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DRG. No.	C9–Pi–PF–CW 3.03R2

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TITLE

PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No. **3.04**

SUB TITLE

CASEMENT WINDOWS
CUTTING LIST - CS955 / CS956 / CS957

Cutting List Example for Window Mitre Outer Frame (900mm x 1300mm)				
FRAME - VERTICAL	CS934	— 2 @	H	1300mm
FRAME - HORIZONTAL	CS934	— 2 @	B	900mm
WEATHER GASKET SEAL	GK841	— 2 @	H - 113	1196mm
WEATHER GASKET SEAL	GK841	— 2 @	B - 113	787mm

Cutting List Example for Window Mitre Casement CS955 (900mm x 1300mm)				
LEAF - VERTICAL	CS955	— 2 @	H - 49.5	1250.5mm
LEAF - HORIZONTAL	CS955	— 2 @	B - 49.5	850.5mm
BEAD - VERTICAL	CS925	— 2 @	H - 193.5	1106.5mm
BEAD - HORIZONTAL	CS925	— 2 @	B - 153.5	746.5mm
WEATHER GASKET SEAL	GK841	— 2 @	H - 50.7	1249.3mm
WEATHER GASKET SEAL	GK841	— 2 @	B - 50.7	849.3mm
CAPTIVE GASKET - VERT.	GK425	— 2 @	H - 177.7	1122.3mm
CAPTIVE GASKET- HORIZ.	GK425	— 2 @	B - 177.7	722.3mm
WEDGE GASKET-VERT.	GK906	— 2 @	H - 152.3	1147.7mm
WEDGE GASKET-HORIZ.	GK906	— 2 @	B - 152.3	747.7mm

Cutting List Example for Window Mitre Casement CS956 / CS957 (900mm x 1300mm)				
VENT - VERTICAL	CS956/957	— 2 @	H - 49.5	1250.5mm
VENT - HORIZONTAL	CS956/957	— 2 @	B - 49.5	850.5mm
BEAD - VERTICAL	CS925	— 2 @	H - 217.5	1082.5mm
BEAD - HORIZONTAL	CS925	— 2 @	B - 177.5	722.5mm
WEATHER GASKET SEAL	GK841	— 2 @	H - 50.7	1249.3mm
WEATHER GASKET SEAL	GK841	— 2 @	B - 50.7	849.3mm
CAPTIVE GASKET - VERT.	GK425	— 2 @	H - 201.7	1098.3mm
CAPTIVE GASKET- HORIZ.	GK425	— 2 @	B - 201.7	698.3mm
WEDGE GASKET-VERT.	GK906	— 2 @	H - 176.3	1123.7mm
WEDGE GASKET-HORIZ.	GK906	— 2 @	B - 176.3	723.7mm

GLASS 28mm - 1 @ SIZE	
GH=H-163.5	GB=B-163.5
1136.5	736.5

WINDOWS LEAF GLASS WEIGHT FOR CS955
= ((6mm + 6mm) x 0.0000025)) x (736.5 x 1136.5) = 25.1 Kgs

GLASS 28mm - 1 @ SIZE	
GH=H-187.5	GB=B-187.5
1112.5	712.5

WINDOWS LEAF GLASS WEIGHT FOR CS956
= ((6mm + 6mm) x 0.0000025)) x (712.5 x 1112.5) = 23.8 Kgs

GLASS 28mm - 1 @ SIZE	
GH=H-187.5	GB=B-187.5
1112.5	712.5

WINDOWS LEAF GLASS WEIGHT FOR CS957
= ((6mm + 6mm) x 0.0000025)) x (712.5 x 1112.5) = 23.8 Kgs

NOTES:
- ADD 3% TO GASKET LENGHT.
- COCKSPUR OPTION SUITABLE FOR CS955, CS956 OR CS957
- ESPAG / SHOOTBOLT OPTION SUITABLE FOR CS956 ONLY
- PERIMETER LOCKING SUITABLE FOR CS957 ONLY

* FOR HINGES OPTION SEE PAGE 1.06

** FOR LOCKING ROD OPTION SEE PAGE 3.14

FOR PERIMETER LOCKINIG OPTIONS PLEASE
SEE PAGES 3.30 - 3.31

ACCESSORIES AND ADDITIONAL ITEMS - CS955 COCKSPUR OPTION		
CLEAT FOR OUTERFRAME	WS430XSLF	— 8 @
CHEVRON FOR OUTERFRAME	WS416XSLF	— 4 @
CLEAT FOR VENT	WS430XSLF	— 8 @
CHEVRON FOR VENT	WS416XSLF	— 4 @
CHEVRON FOR VENT	WS015XSLF	— 4 @
GLAZING SUPPORT	GK951	— 2 @
COCKSPUR HANDLE	HD902	— 1 @
WEDGE 2mm	WS042XSLF	— 1 @
HANDLE FIXING M5x20mm	FX800XSLF	— 2 @
FRICTION HINGE (PAIR)	HNxxxXSLF(*)	— 1 @
LIFTING RAMPS (PAIR)	WS564EWHT	— 6 @
EXCLUDER 16mm (PAIR)	LK817XSLF	— 2 @
ALI GLUE - 310ml (SPECIFY COLOUR)	SE007-08LH	— 1 @

ACCESSORIES AND ADDITIONAL ITEMS - CS956 ESPAG OPTION		
CLEAT FOR OUTERFRAME	WS430XSLF	— 8 @
CHEVRON FOR OUTERFRAME	WS416XSLF	— 4 @
CLEAT FOR VENT	WS430XSLF	—12 @
CLEAT FOR VENT	WS337XSLF	— 4 @
CHEVRON FOR VENT	WS416XSLF	— 4 @
CHEVRON FOR VENT	WS015XSLF	— 4 @
GLAZING SUPPORT	GK951	— 2 @
ALI GLUE - 310ml (SPECIFY COLOUR)	SE007-08LH	— 1 @
HANDLE DBLK/BSVR/EWHT (LH/RH)	WS930/931	— 1 @
HANDLE FIXING M5x20mm	FX800XSLF	— 2 @
FRICTION HINGE (PAIR)	HNxxxXSLF(*)	— 1 @
KEEP (PAIR)	ESP901XSLF	— 1 @
LIFTING RAMPS (PAIR)	WS564EWHT	— 6 @
EXCLUDER 16mm (PAIR)	LK817XSLF	— 2 @
LOCKING ROD	ESPxxxXSLF(**)	— 1 @

ACCESSORIES AND ADDITIONAL ITEMS - CS956 SHOOTBOLT OPTION		
CLEAT FOR OUTERFRAME	WS430XSLF	— 8 @
CHEVRON FOR OUTERFRAME	WS416XSLF	— 4 @
CLEAT FOR VENT	WS430XSLF	—12 @
CLEAT FOR VENT	WS337XSLF	— 4 @
CHEVRON FOR VENT	WS416XSLF	— 4 @
CHEVRON FOR VENT	WS015XSLF	— 4 @
GLAZING SUPPORT	GK951	— 2 @
ALI GLUE - 310ml (SPECIFY COLOUR)	SE007-08LH	— 1 @
HANDLE DBLK/BSVR/EWHT (LH/RH)	WS930/931	— 1 @
HANDLE FIXING M5x20mm	FX800XSLF	— 2 @
EXCALIBUR GEARBOX	LK901XSLF	— 1 @
EXTENSION ROD	LK904XSLF	— 2 @
SHOOTBOLT END KEEPS LH/RH	LK908XSLF	— 2 @
FRICTION HINGE FITMENT	HNxxxXSLF(*)	— 2 @
CENTRE KEEP	LK907XSLF	— 1 @
LIFTING RAMPS (PAIR)	WS564EWHT	— 6 @
EXCLUDER 16mm (PAIR)	LK817XSLF	— 2 @
GLAZING CLIPS	WS902XSLF	—12 @
SHOOTBOLT BACKING PLATE	IN080XSLF	— 2 @

ACCESSORIES AND ADDITIONAL ITEMS - CS957 PERIMETER LOCKING OPTION		
CLEAT FOR OUTERFRAME	WS430XSLF	— 8 @
CHEVRON FOR OUTERFRAME	WS416XSLF	— 4 @
CLEAT FOR VENT	WS430XSLF	— 8 @
CLEAT FOR VENT	WS337XSLF	— 8 @
CHEVRON FOR VENT	WS416XSLF	— 4 @
CHEVRON FOR VENT	WS015XSLF	— 4 @
GLAZING SUPPORT	GK951	— 2 @
ALI GLUE - 310ml (SPECIFY COLOUR)	SE007-08LH	— 1 @
LIFTING RAMPS (PAIR) #	WS564EWHT	— 6 @

OPTION 5 PAIRS OF WS564EWHT FOR 2 & 4 POINT LOCKING - SEE PAGE 3.30

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DRG. No.	C9-Pi-PF-CW 3.04 R3

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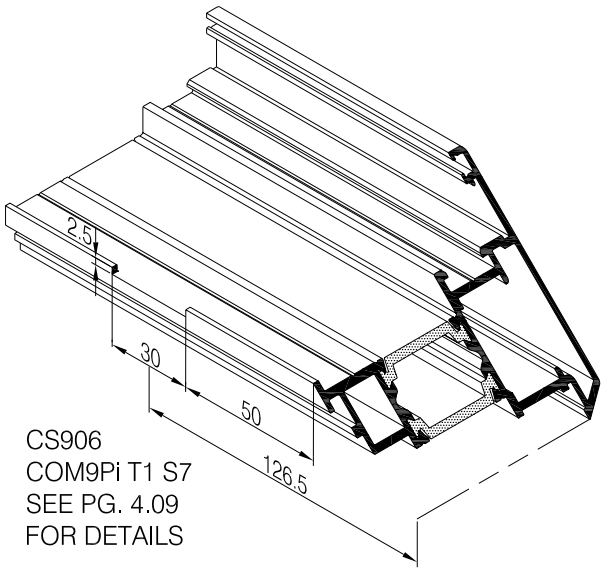
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PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

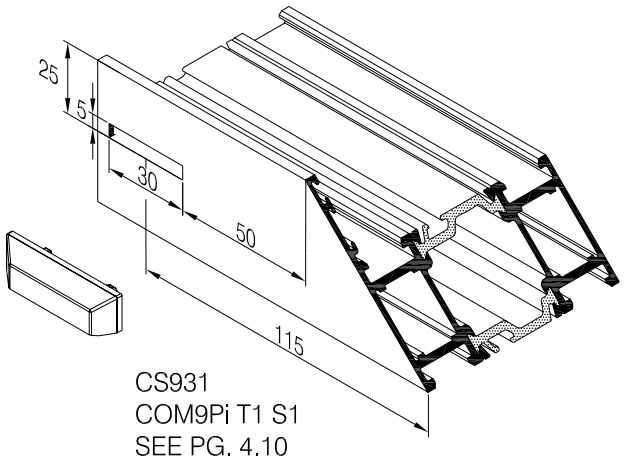
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SUB TITLE

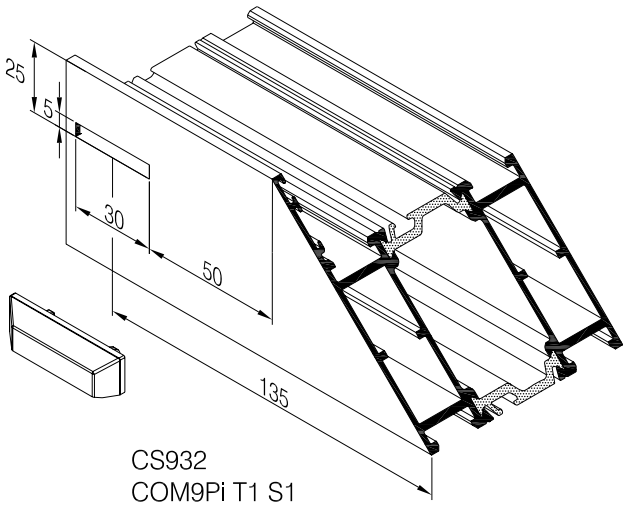
CASEMENT WINDOWS
TYPICAL DRAINAGE DETAIL - CS906 / CS931 / CS932 / CS933



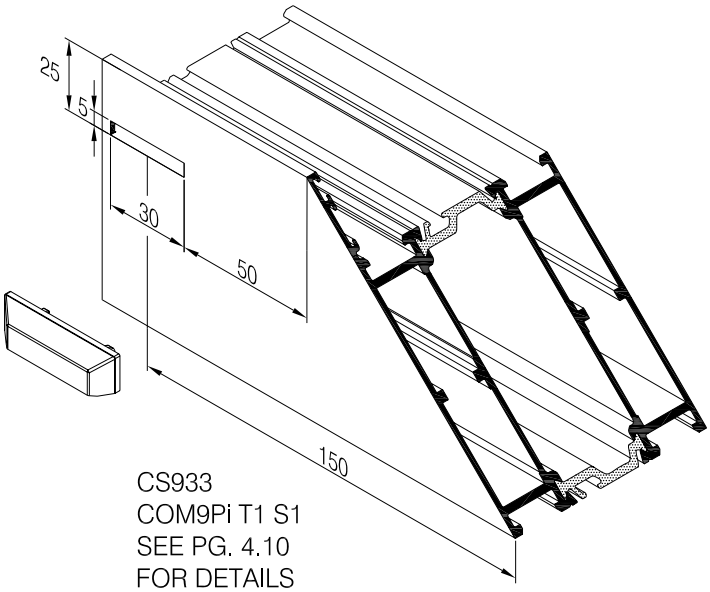
CS906
COM9Pi T1 S7
SEE PG. 4.09
FOR DETAILS



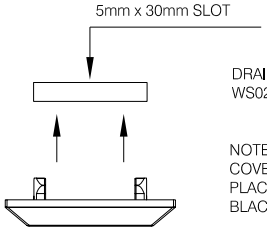
CS931
COM9Pi T1 S1
SEE PG. 4.10
FOR DETAILS



CS932
COM9Pi T1 S1
SEE PG. 4.10
FOR DETAILS



CS933
COM9Pi T1 S1
SEE PG. 4.10
FOR DETAILS



DRAIN CAP REFERENCE :
WS023

NOTE :-
COVER CAPS SHOULD BE GLUED IN
PLACE WITH ADHESIVE REF: SE007
BLACK OR WHITE

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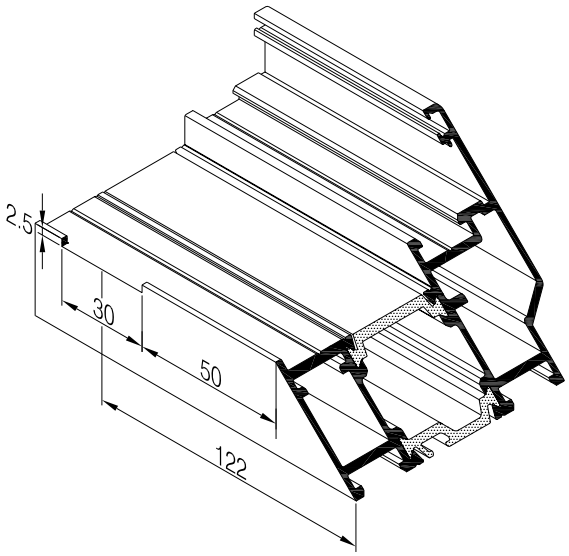
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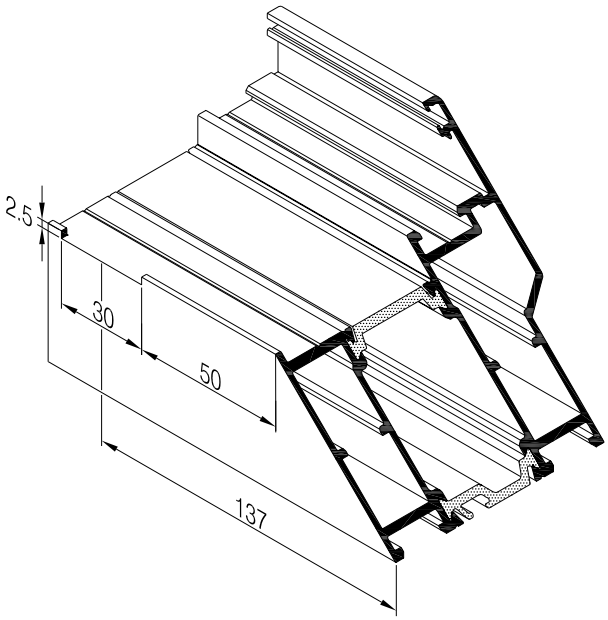
TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
3.06

SUB TITLE
CASEMENT WINDOWS
TYPICAL DRAINAGE DETAIL - CS934 / CS935



CS934 - COM9Pi T1 S7
SEE PG. 4.11 FOR DETAILS



CS935 - COM9Pi T1 S7
SEE PG. 4.11 FOR DETAILS

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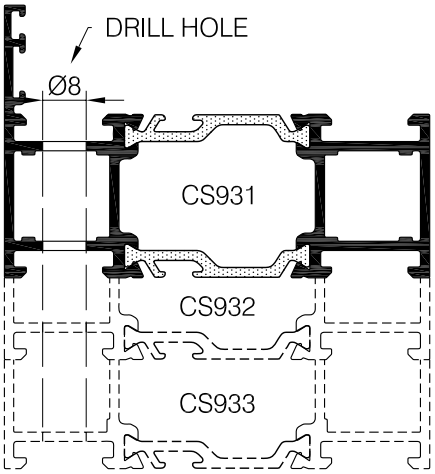
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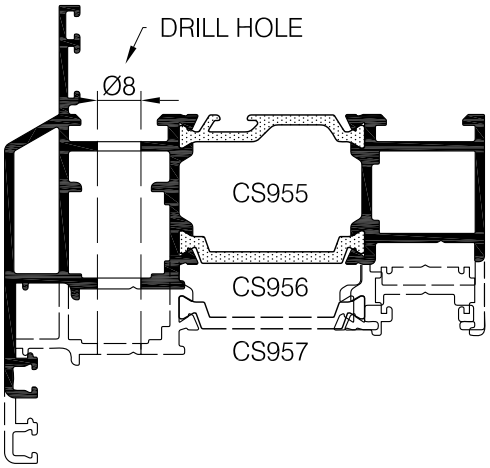
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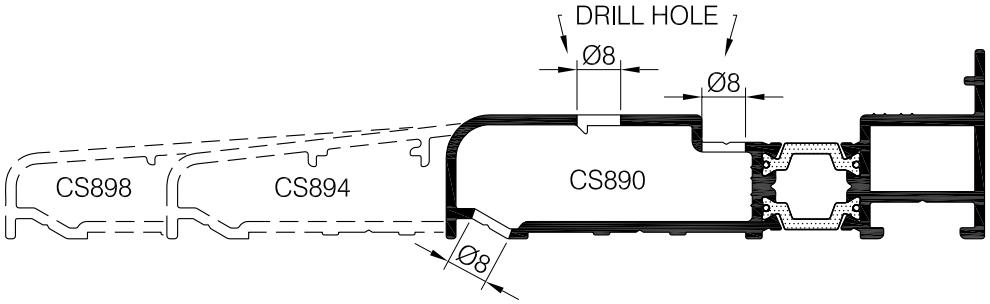
TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
3.07

SUB TITLE
CASEMENT WINDOWS
TYPICAL DRAINAGE DETAILS







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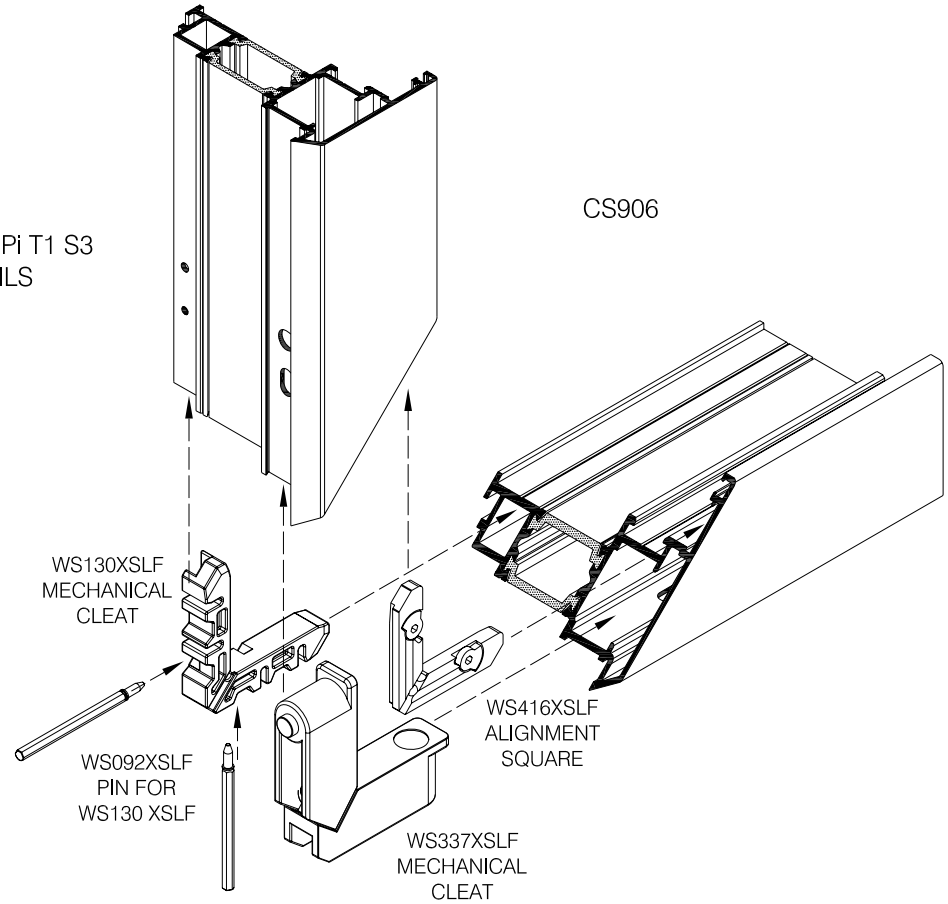
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FRAMING, WINDOWS, DOORS

SHEET No.
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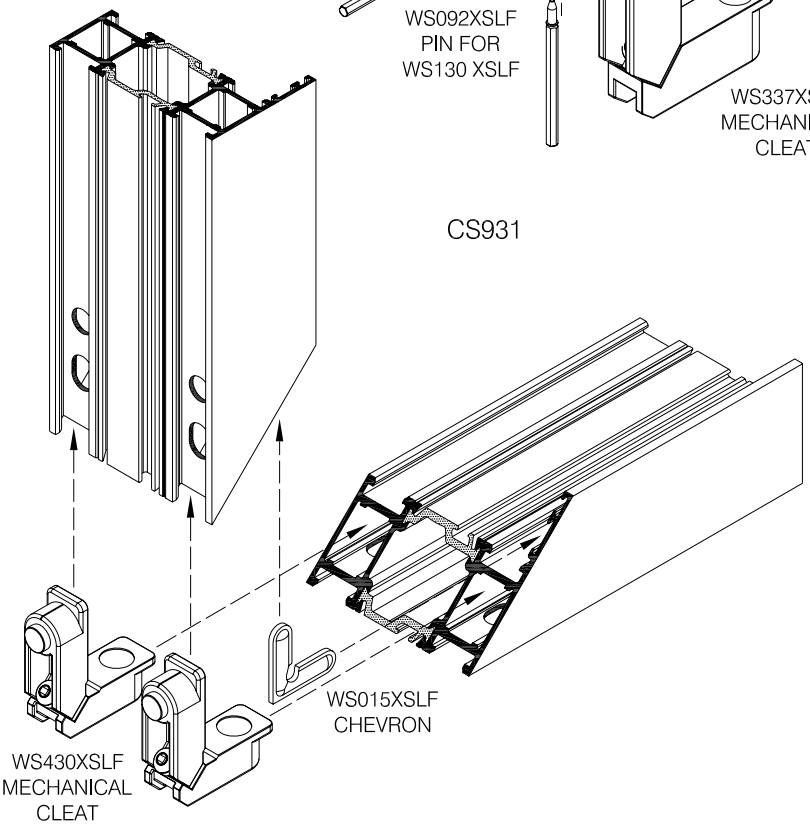
SUB TITLE
CASEMENT WINDOWS
CLEAT PREPARATION ASSEMBLY - CS906 / CS931

CS906

CS906 - COM9Pi T2 S2/COM9Pi T1 S3
SEE PG. 4.02 FOR DETAILS



CS931



CS931 - COM9Pi T2 S3
SEE PG. 4.03 FOR DETAILS

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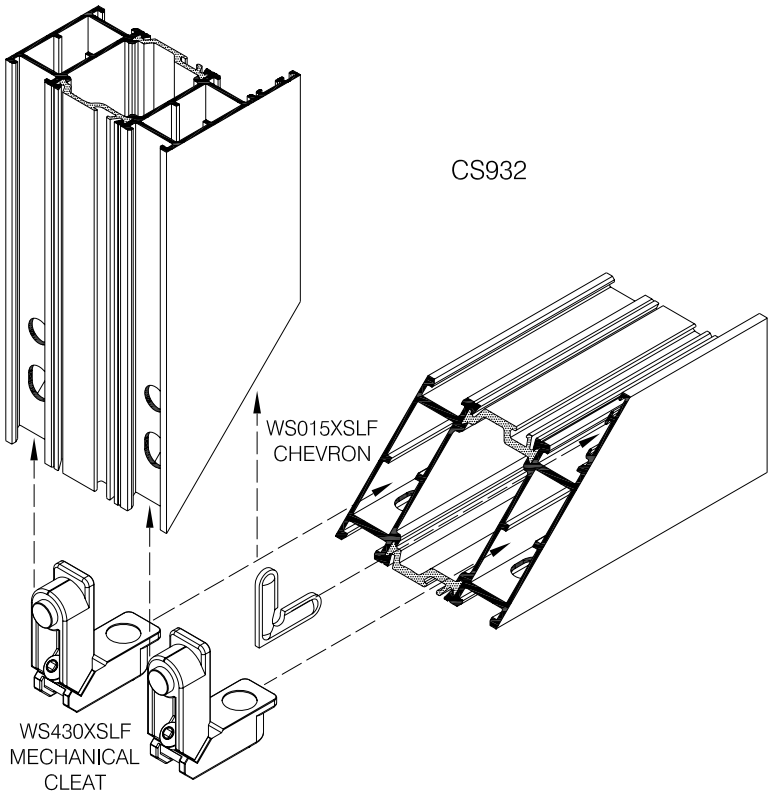
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PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
3.09

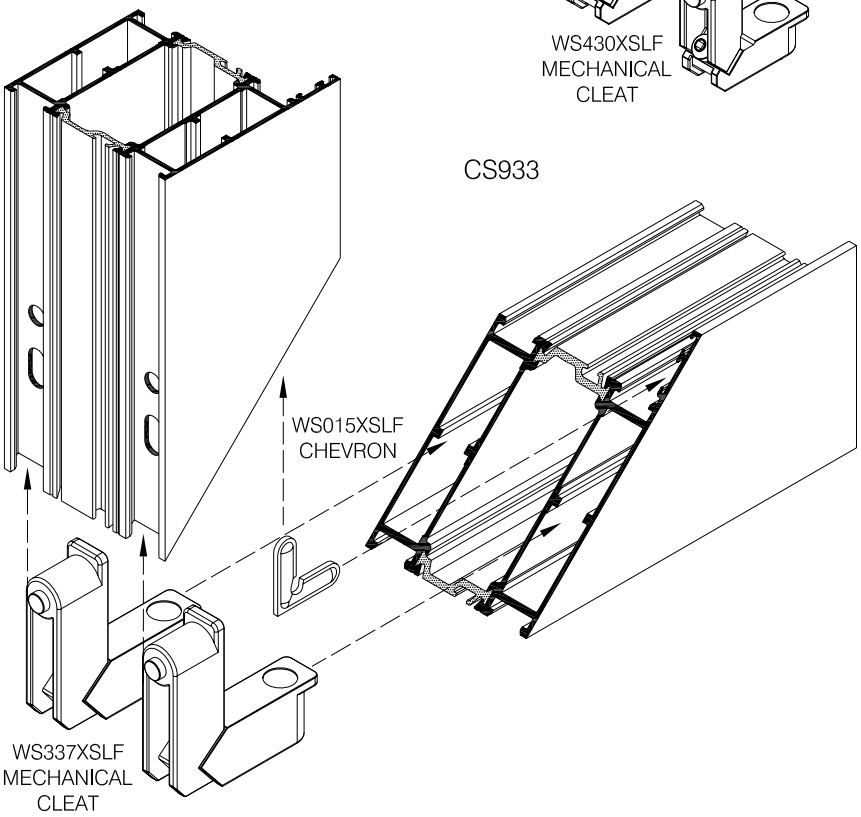
SUB TITLE
CASEMENT WINDOWS
CLEAT PREPARATION ASSEMBLY - CS932 / CS933

CS932

CS932 - COM9Pi T2 S3
SEE PG. 4.03 FOR DETAILS



CS933



CS933 - COM9Pi T1 S3
SEE PG. 4.04 FOR DETAILS

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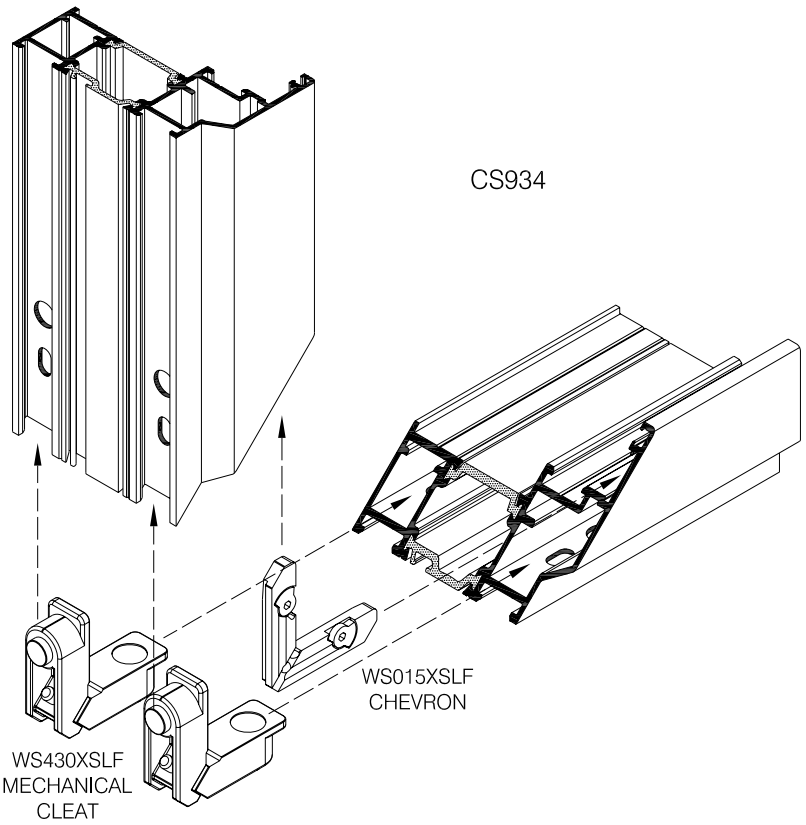
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FRAMING, WINDOWS, DOORS

SHEET No.
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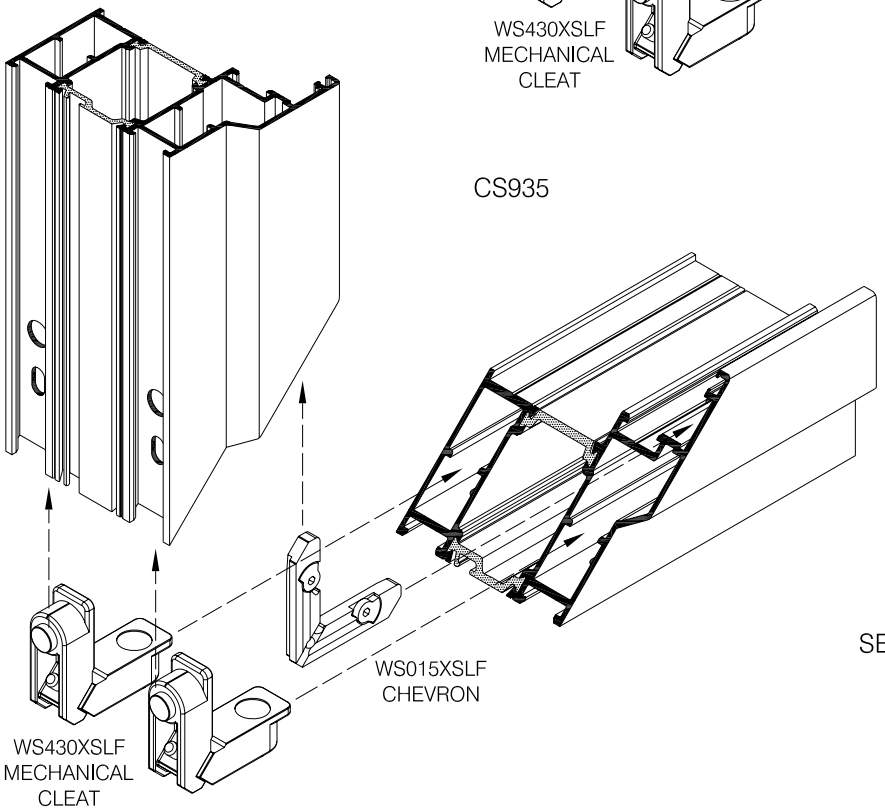
SUB TITLE
CASEMENT WINDOWS
CLEAT PREPARATION ASSEMBLY - CS934 / CS935

CS934

CS934 - COM9Pi T2 S3
SEE PG. 4.05 FOR DETAILS



CS935



CS935 - COM9Pi T2 S3
SEE PG. 4.05 FOR DETAILS

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DRG. No.	C9-Pi-PF-CW 3.10 R1

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TITLE

PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

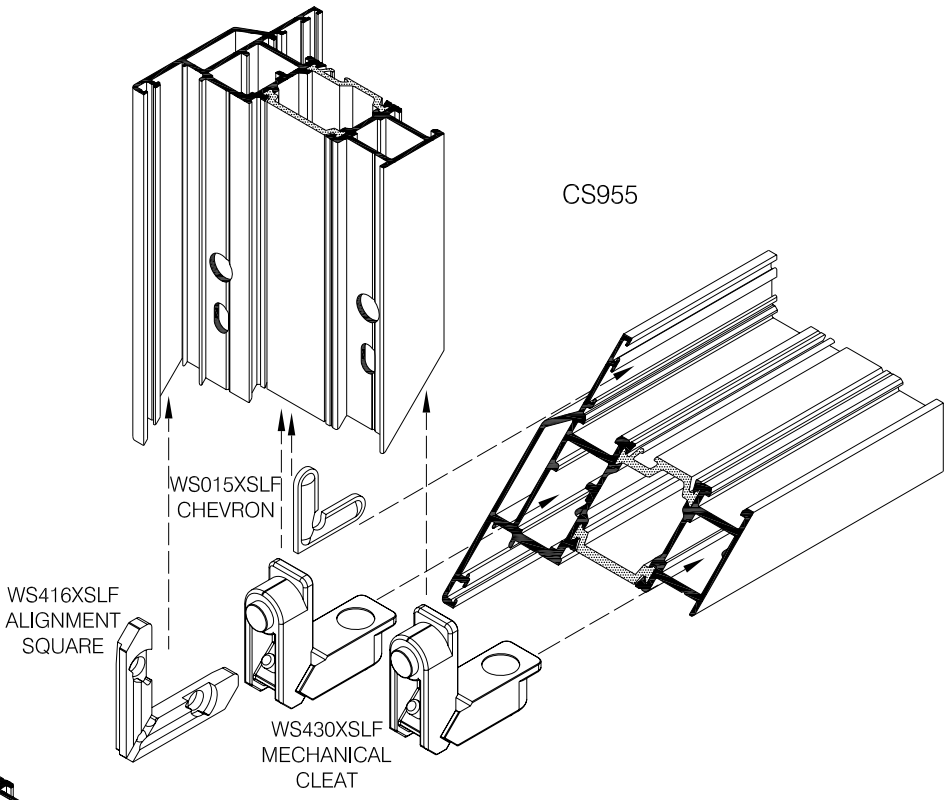
SHEET No. 3.11

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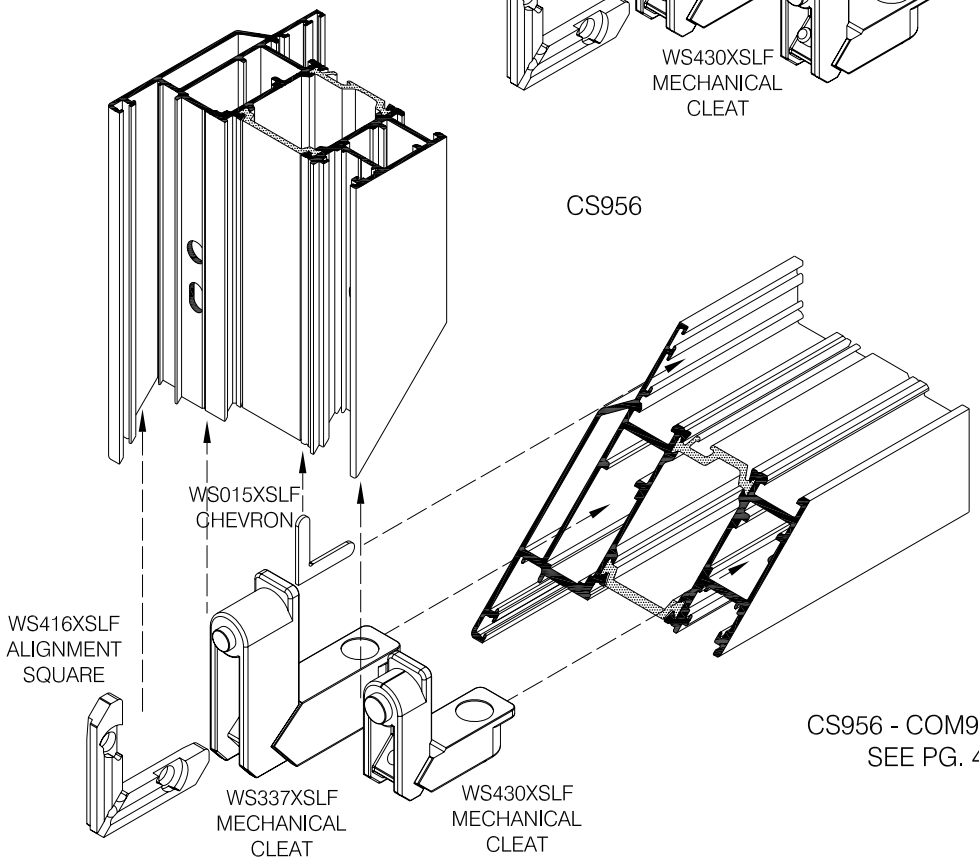
CASEMENT WINDOWS
CLEAT PREPARATION ASSEMBLY - CS955/CS956

CS955 - COM9Pi T2 S3
SEE PG. 4.06 FOR DETAILS

CS955



CS956



CS956 - COM9Pi T1 S3/COM9Pi T2 S3
SEE PG. 4.07 FOR DETAILS

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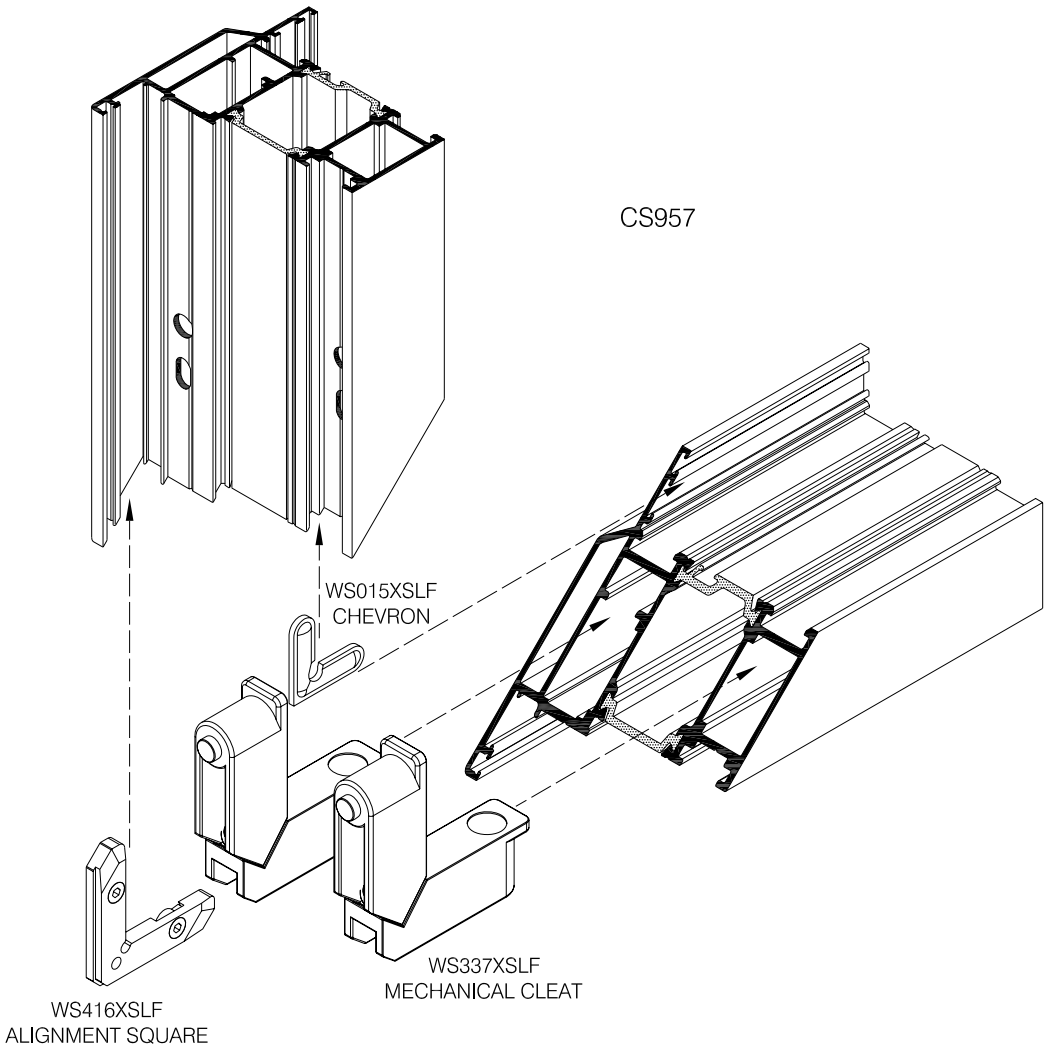
TITLE

PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No. **3.12**

SUB TITLE

CASEMENT WINDOWS
CLEAT PREPARATION ASSEMBLY - CS957



CS957 - COM9Pi T1 S3

SEE PG. 4.08 FOR DETAILS

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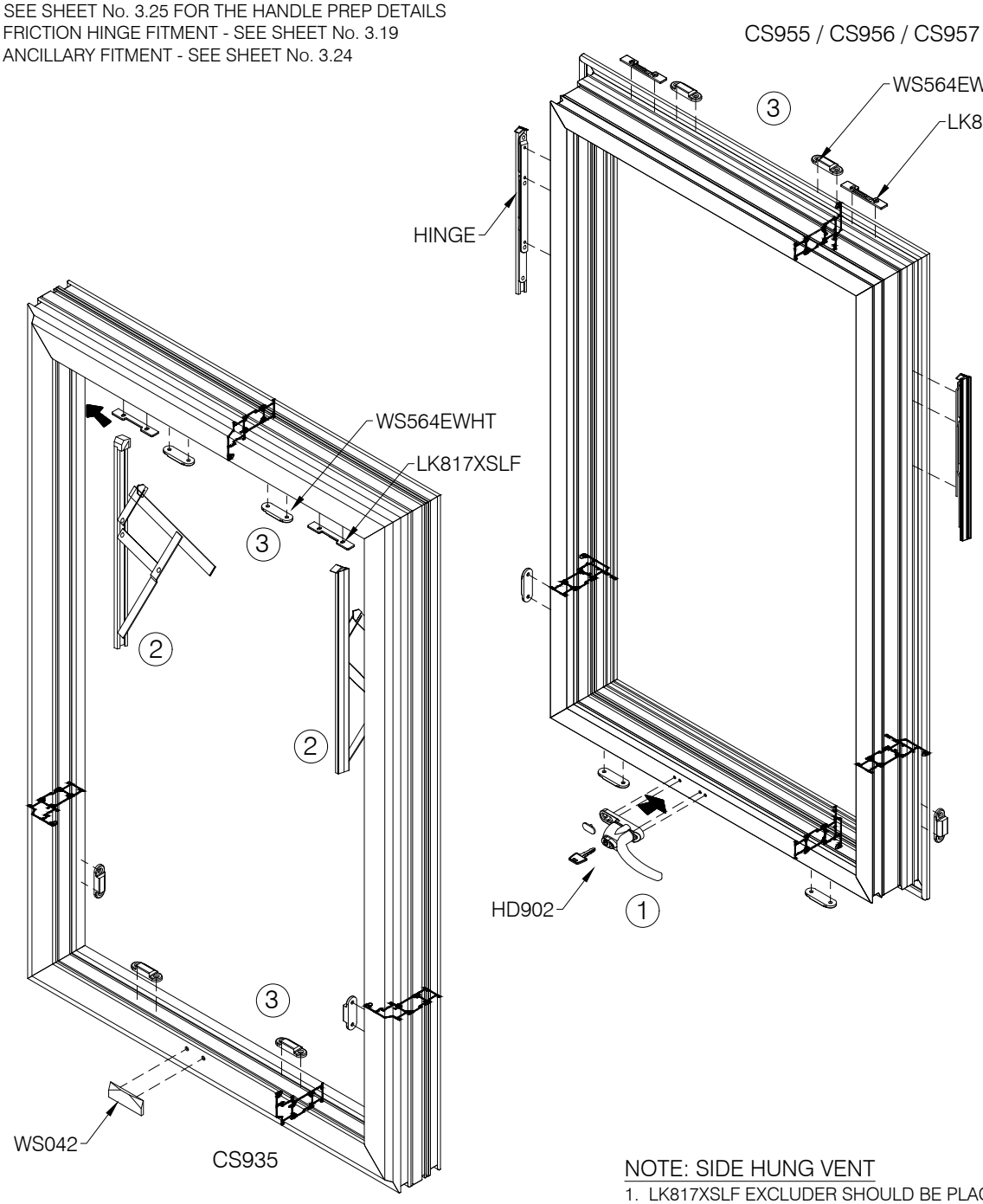
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DATE	03-10-2011
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DRG. No.	C9-Pi-PF-CW 3.12 R1

FABRICATION ORDER:

1. COCKSPUR HANDLE
   SEE SHEET No. 3.25 FOR THE HANDLE PREP DETAILS
2. FRICTION HINGE FITMENT - SEE SHEET No. 3.19
3. ANCILLARY FITMENT - SEE SHEET No. 3.24



NOTE: SIDE HUNG VENT

1. LK817XSLF EXCLUDER SHOULD BE PLACED IN THE PIVOTING EDGE
2. WS564EWHT LIFTING RAMPS PLACED ON THE TOP, BOTTOM & SIDES.

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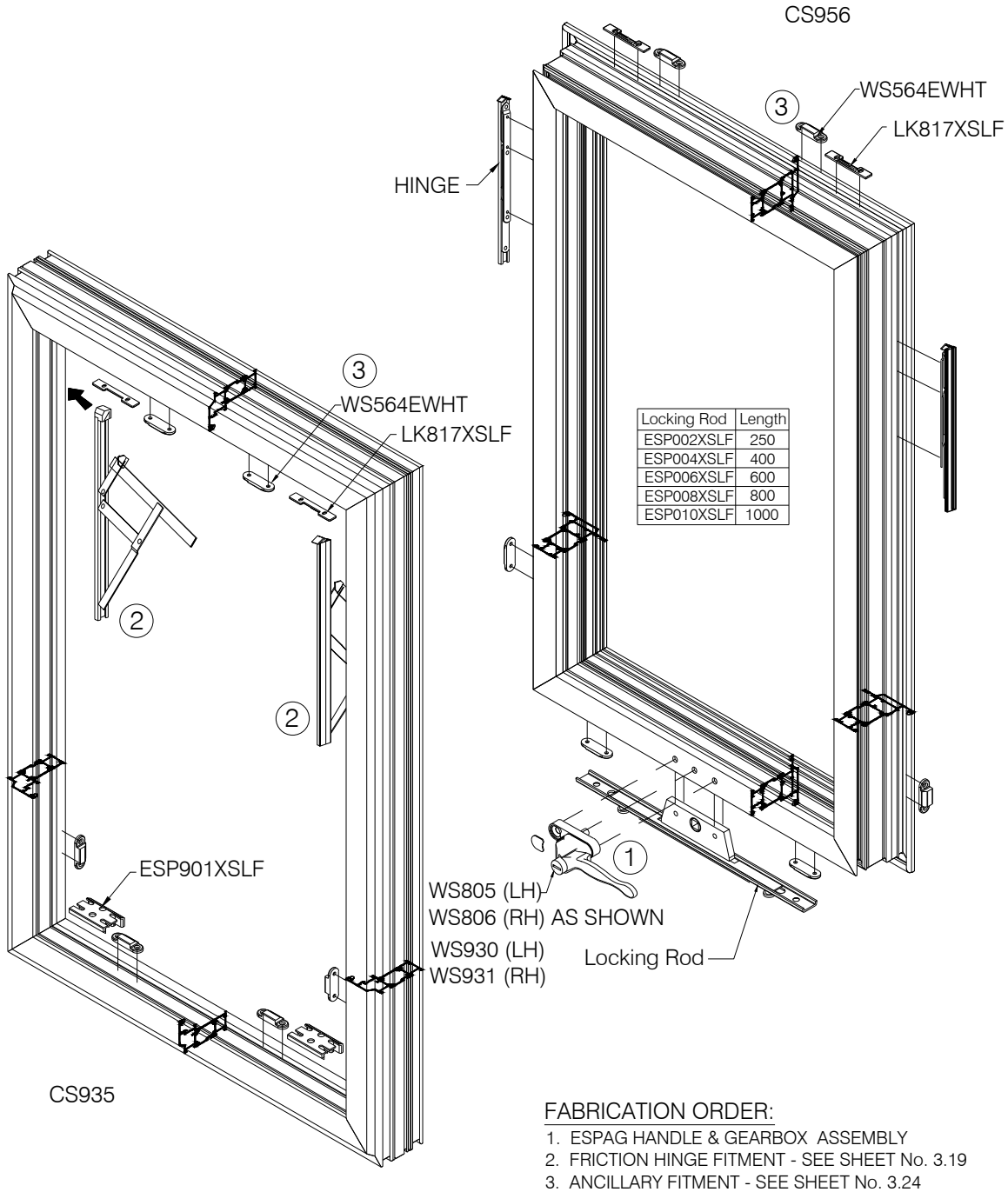
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DATE	19/08/2020
DRAWN	NRA/BB
DRG. No.	C9-Pi-PF-CW 3.13 R4

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TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
3.14

SUB TITLE
CASEMENT WINDOWS
WINDOW ASSEMBLY - CS956 (ESPAG HANDLE)



Locking Rod	Length
ESP002XSLF	250
ESP004XSLF	400
ESP006XSLF	600
ESP008XSLF	800
ESP010XSLF	1000

FABRICATION ORDER:

1. ESPAG HANDLE & GEARBOX ASSEMBLY
2. FRICTION HINGE FITMENT - SEE SHEET No. 3.19
3. ANCILLARY FITMENT - SEE SHEET No. 3.24
4. FIT PAIR OF WS564EWHT TO JAMB ON OPPOSITE SIDE TO MOVING ADJUSTABLE PAWL TO PREVENT MOVEMENT OF VENT WHEN OPERATING LOCKING

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DRAWN	NRA/AMR
DRG. No.	C9-Pi-PF-CW 3.14 R4

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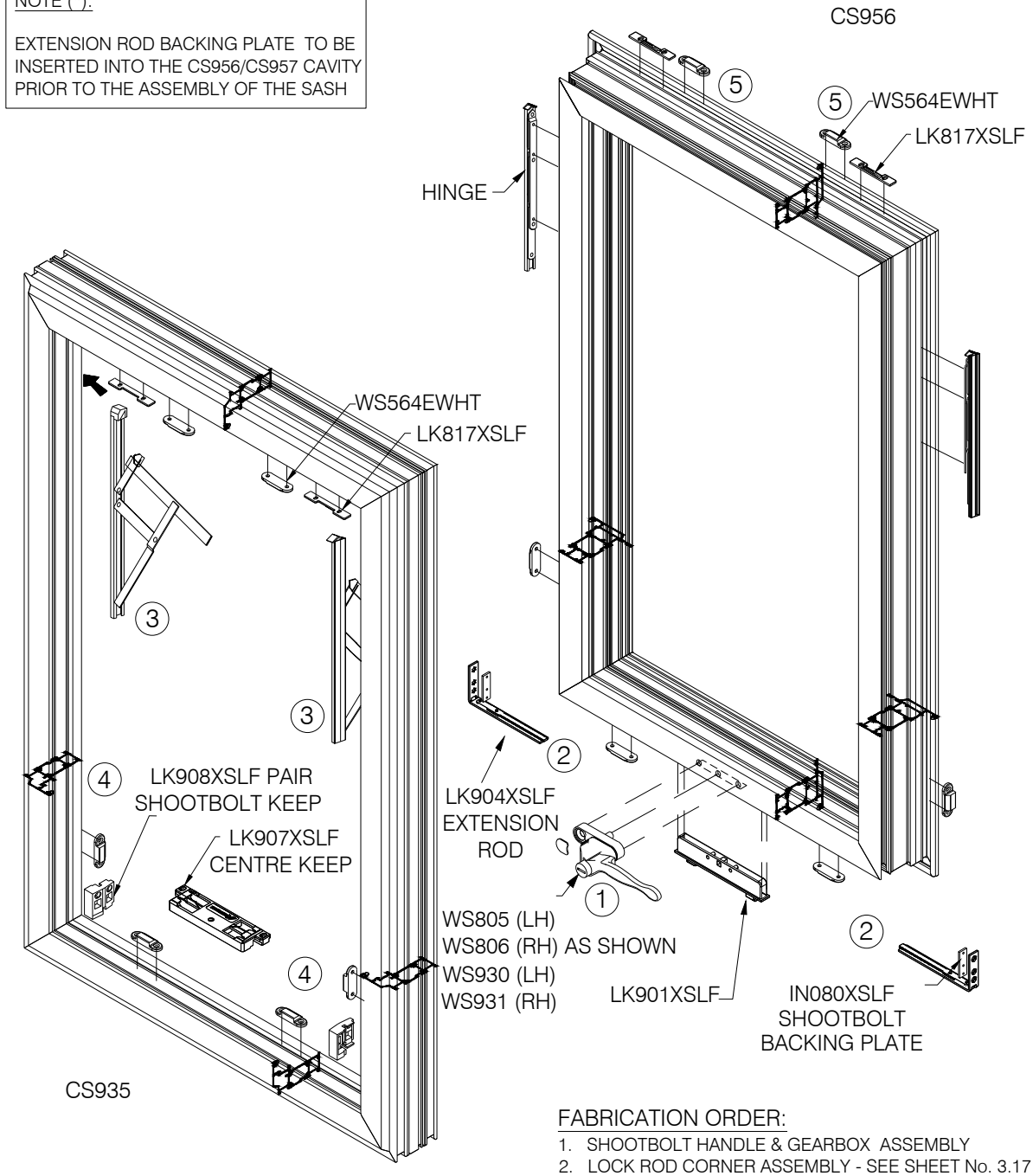
TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
3.15

SUB TITLE
CASEMENT WINDOWS
WINDOW ASSEMBLY - CS956 (SHOOTBOLT)

NOTE (*):

EXTENSION ROD BACKING PLATE TO BE INSERTED INTO THE CS956/CS957 CAVITY PRIOR TO THE ASSEMBLY OF THE SASH



FABRICATION ORDER:

1. SHOOTBOLT HANDLE & GEARBOX ASSEMBLY
2. LOCK ROD CORNER ASSEMBLY - SEE SHEET No. 3.17
3. FRICTION HINGE FITMENT - SEE SHEET No. 3.19
4. LOCKING KEEPS FITMENT - SEE SHEET No. 3.21
5. ANCILLARY FITMENT - SEE SHEET No. 3.24

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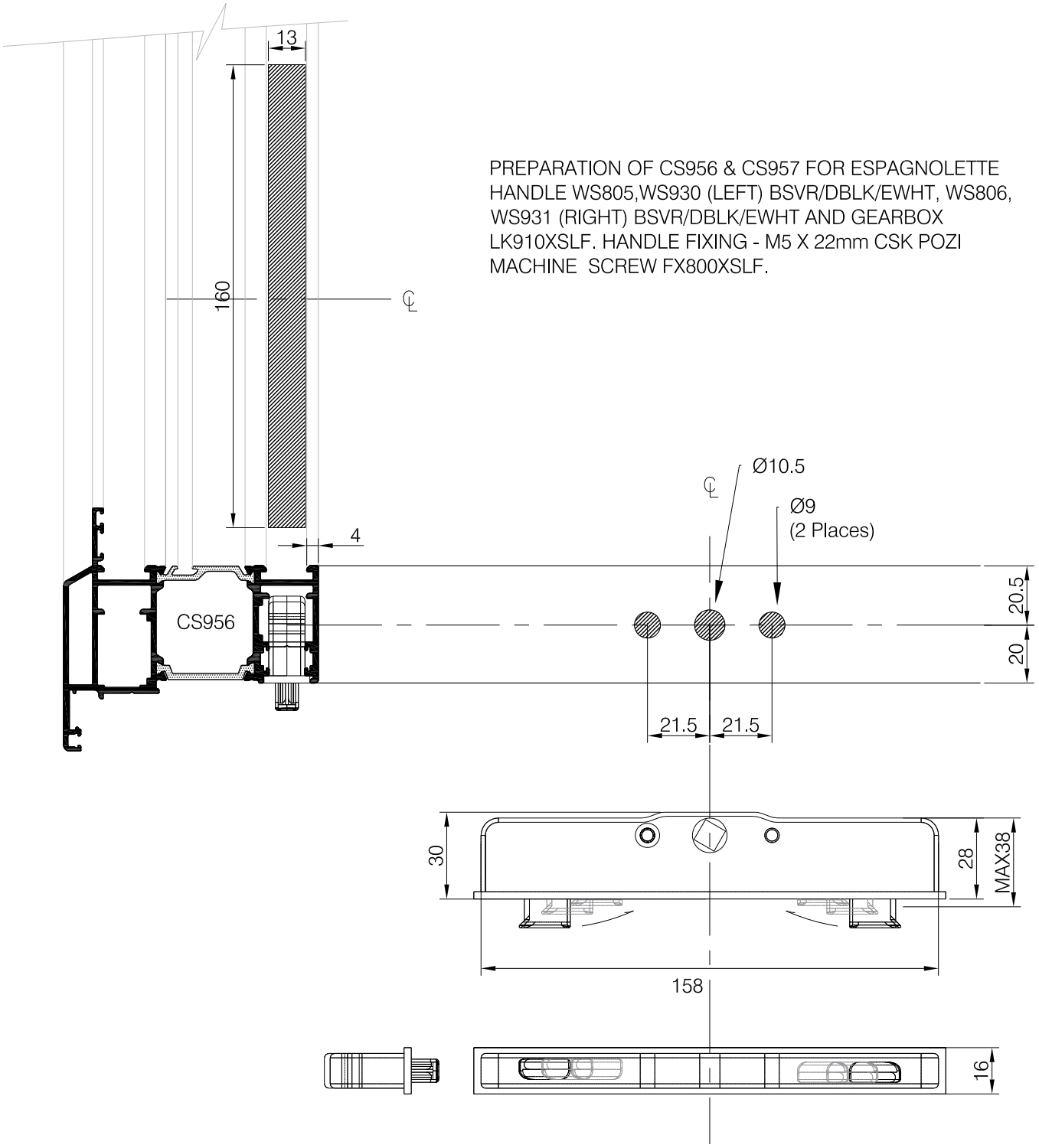
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TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
3.16

SUB TITLE
CASEMENT WINDOWS
GEARBOX & HANDLE PREPARATIONS



PREPARATION OF CS956 & CS957 FOR ESPAGNOLETTE HANDLE WS805,WS930 (LEFT) BSVR/DBLK/EWHT, WS806, WS931 (RIGHT) BSVR/DBLK/EWHT AND GEARBOX LK910XSLF. HANDLE FIXING - M5 X 22mm CSK POZI MACHINE SCREW FX800XSLF.

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DRG. No.	C9-Pi-PF-CW 3.16 R4

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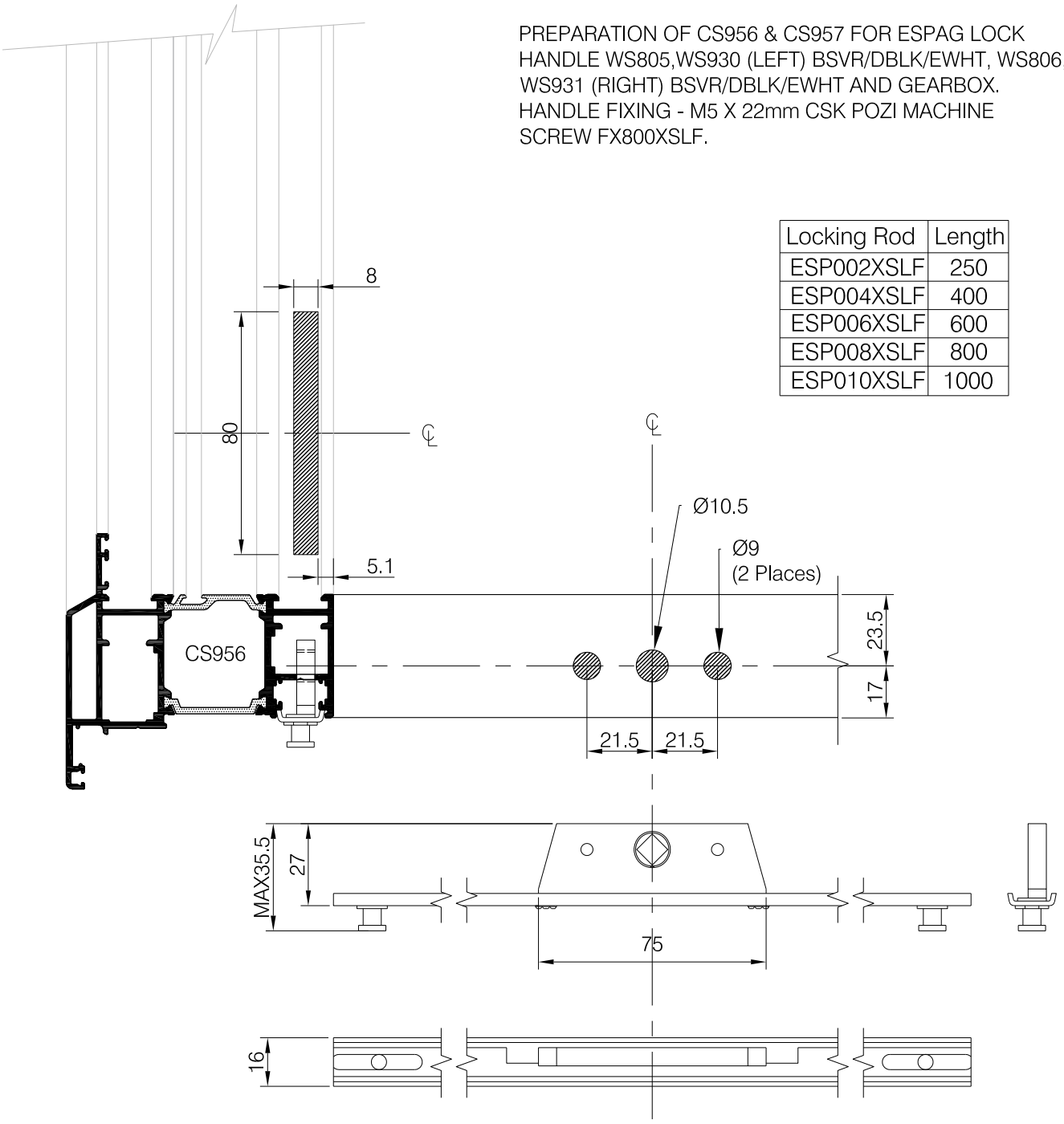
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PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
3.16.1

SUB TITLE
CASEMENT WINDOWS
ESPAG LOCK & HANDLE PREPARATIONS

PREPARATION OF CS956 & CS957 FOR ESPAG LOCK HANDLE WS805,WS930 (LEFT) BSVR/DBLK/EWHT, WS806, WS931 (RIGHT) BSVR/DBLK/EWHT AND GEARBOX. HANDLE FIXING - M5 X 22mm CSK POZI MACHINE SCREW FX800XSLF.

Locking Rod	Length
ESP002XSLF	250
ESP004XSLF	400
ESP006XSLF	600
ESP008XSLF	800
ESP010XSLF	1000



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DATE	13/11/2019
DRAWN	CAD/BB
DRG. No.	C9–Pi–PF–CW 3.16.1R0

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TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
3.16.2

SUB TITLE
CASEMENT WINDOWS
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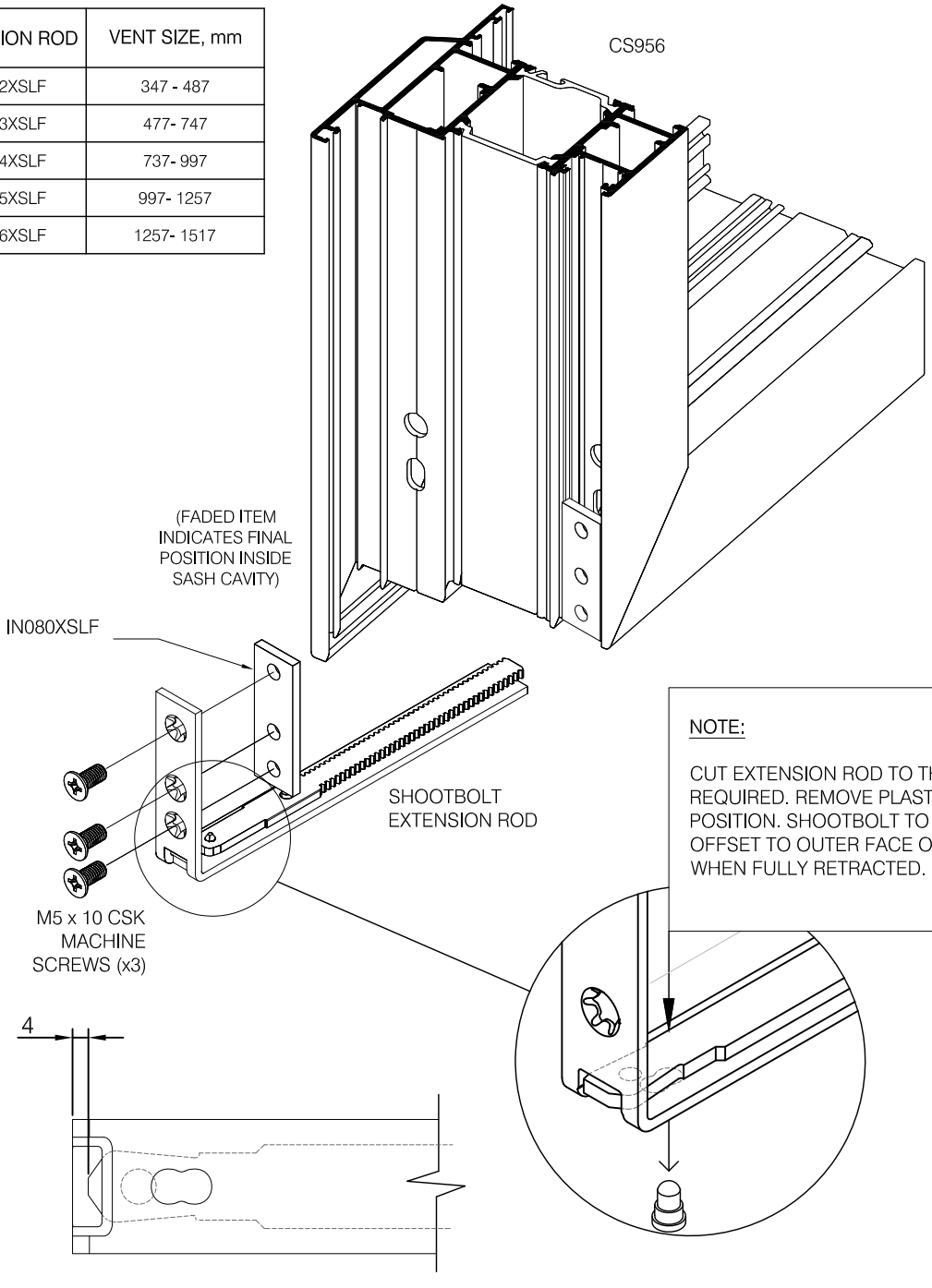
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EXTENSION ROD	VENT SIZE, mm
LK902XSLF	347 - 487
LK903XSLF	477- 747
LK904XSLF	737- 997
LK905XSLF	997- 1257
LK906XSLF	1257- 1517



NOTE:

CUT EXTENSION ROD TO THE SIZE REQUIRED. REMOVE PLASTIC PIN POSITION. SHOOTBOLT TO BE 4mm OFFSET TO OUTER FACE OF CORNER WHEN FULLY RETRACTED.

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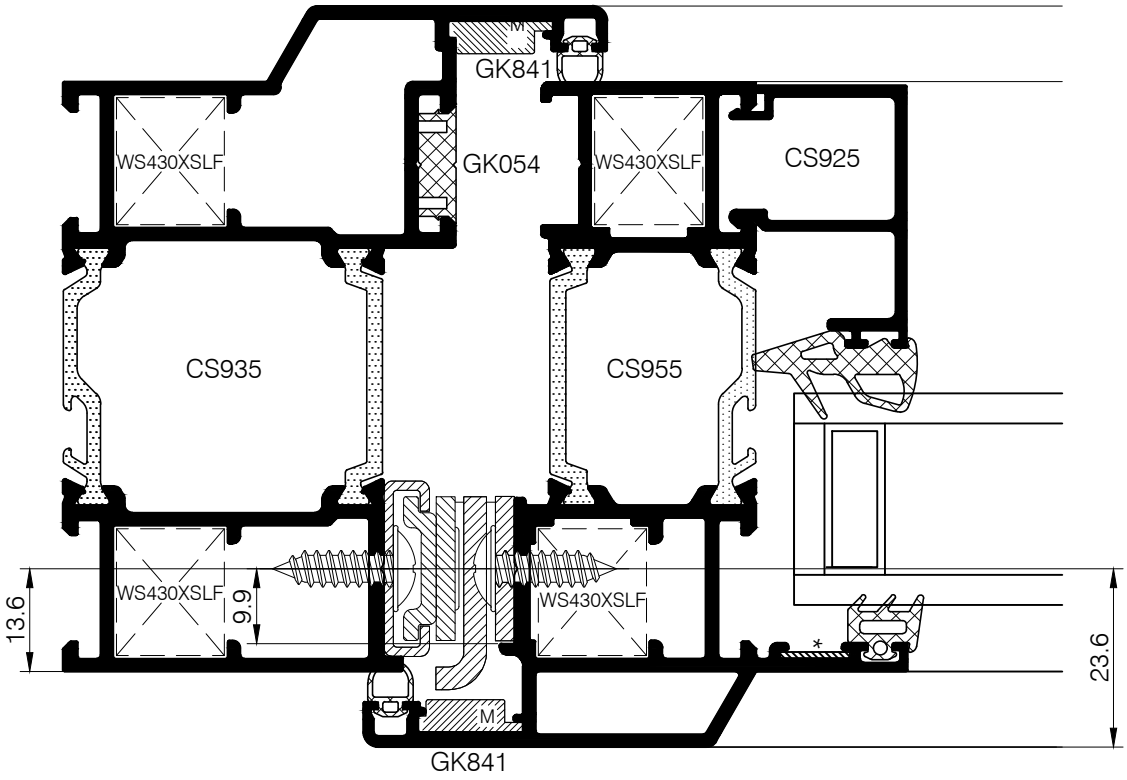
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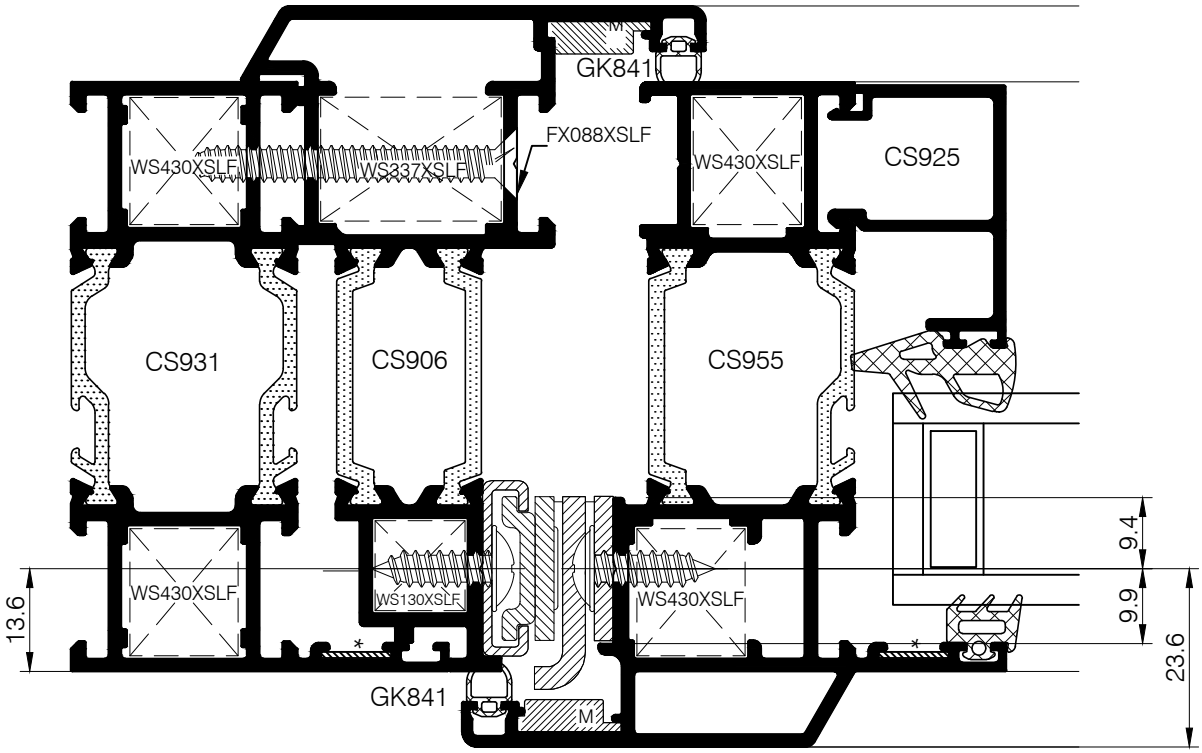
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TITLE **PERFORMANCE FRAMING SYSTEM**
FRAMING, WINDOWS & DOORS

SHEET No. **3.18**

SUB TITLE **CASEMENT WINDOW**
HINGE DETAIL





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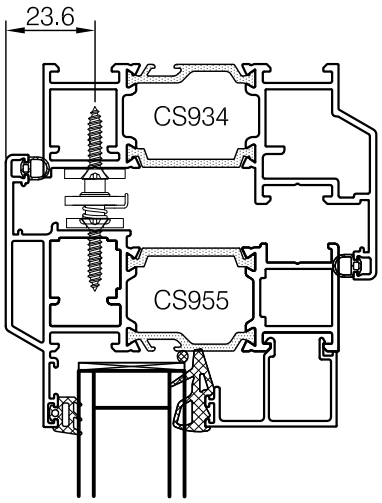
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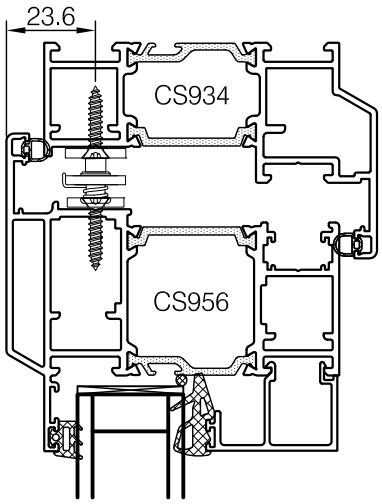
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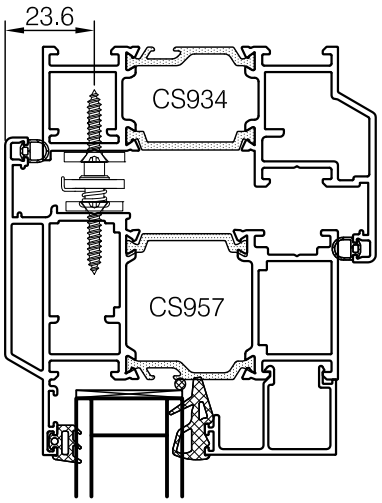
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FRAMING, WINDOWS & DOORS

SHEET No. **3.18.1**

SUB TITLE **CASEMENT WINDOW**
HINGE DETAIL



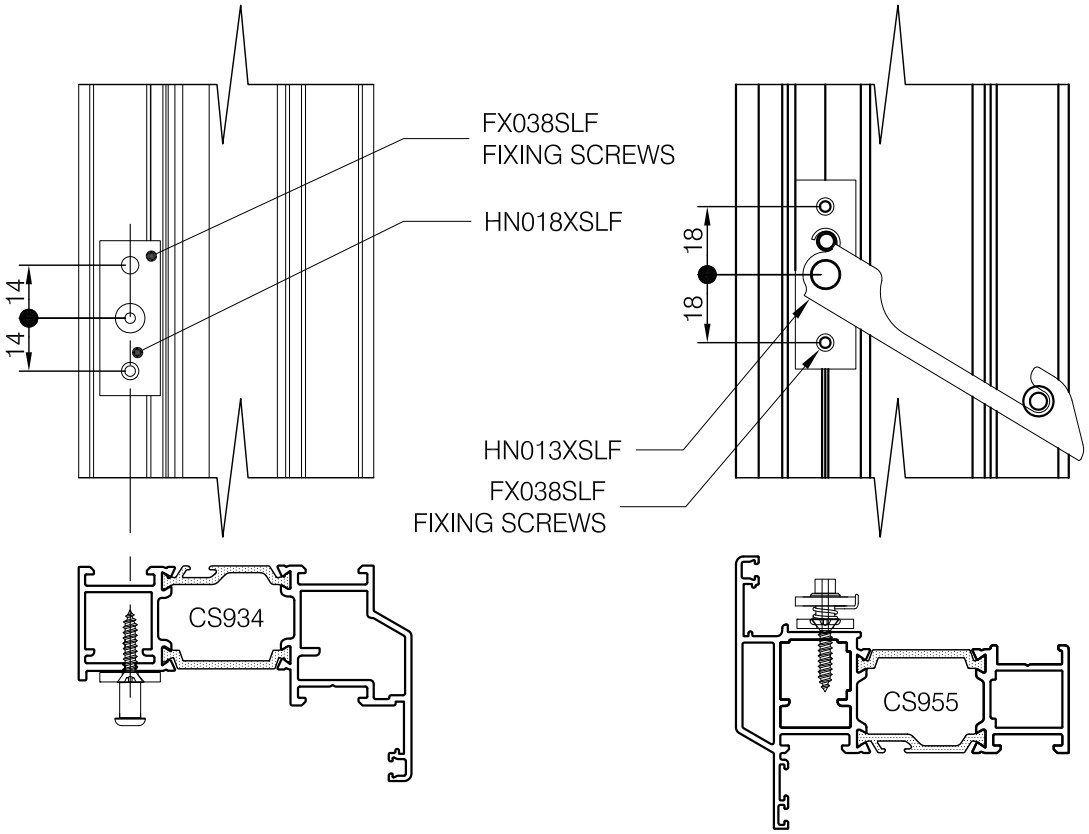




NOTE:
The striker pin should be fitted to the frame of the window. It should be positioned so that when the window is closing, the front edge of the restrictor is central with the striker pin.

The position of the Autolatch on the sash should limit the window opening to 100 mm maximum. The restrictor and the striker pin should be on the same centreline as the friction stay hinge.

The open face of the Autolatch arm should face the inside of the window and the arm should be pointing away from the hinge.

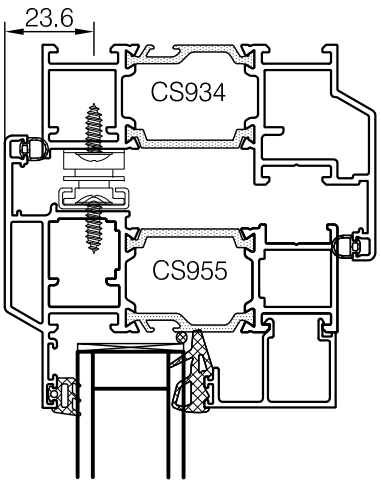


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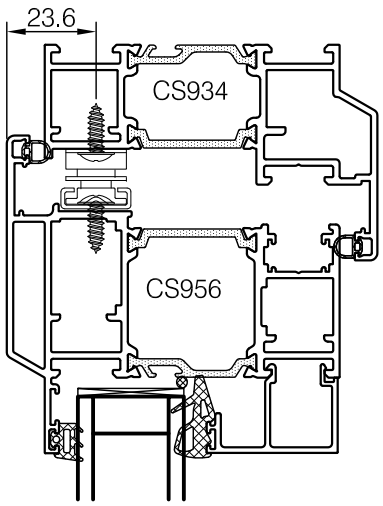
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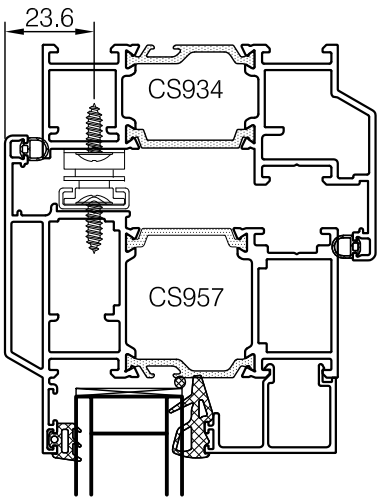
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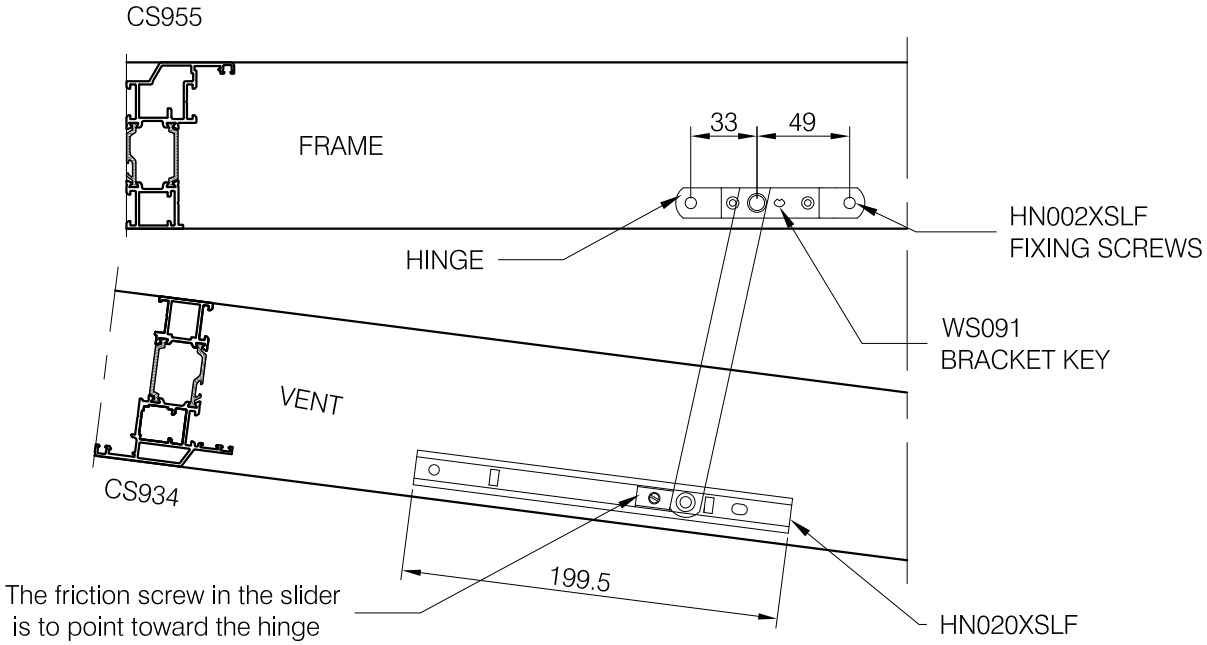
NOTE:
The Restrictor Stay track should be positioned in line with the hinge vent arm, fixed on 'V' mark.



The fixings should be inserted through the holes in the frame bracket when positioned correctly.
Please note that some profiles include a 'V' mark assisting with screw positioning.



The closer the Detachable Restrictor Stay is positioned to the hinge the greater the opening angle of the vent will be, subsequently the further away the Vent Bracket is positioned from the hinge the smaller the opening angle of the vent will be.



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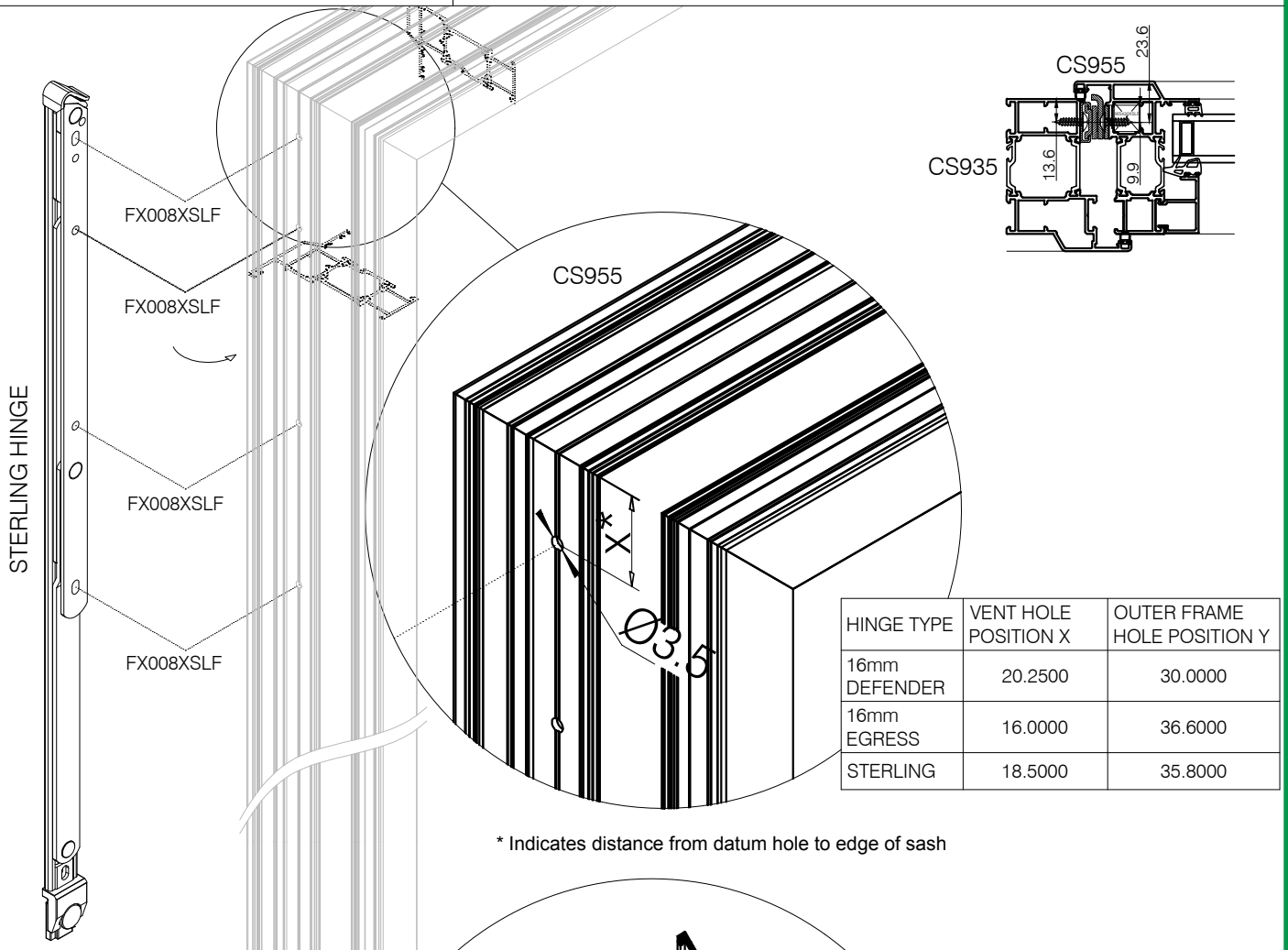
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TITLE **PERFORMANCE FRAMING SYSTEM**
FRAMING, WINDOWS & DOORS

SHEET No. **3.19**

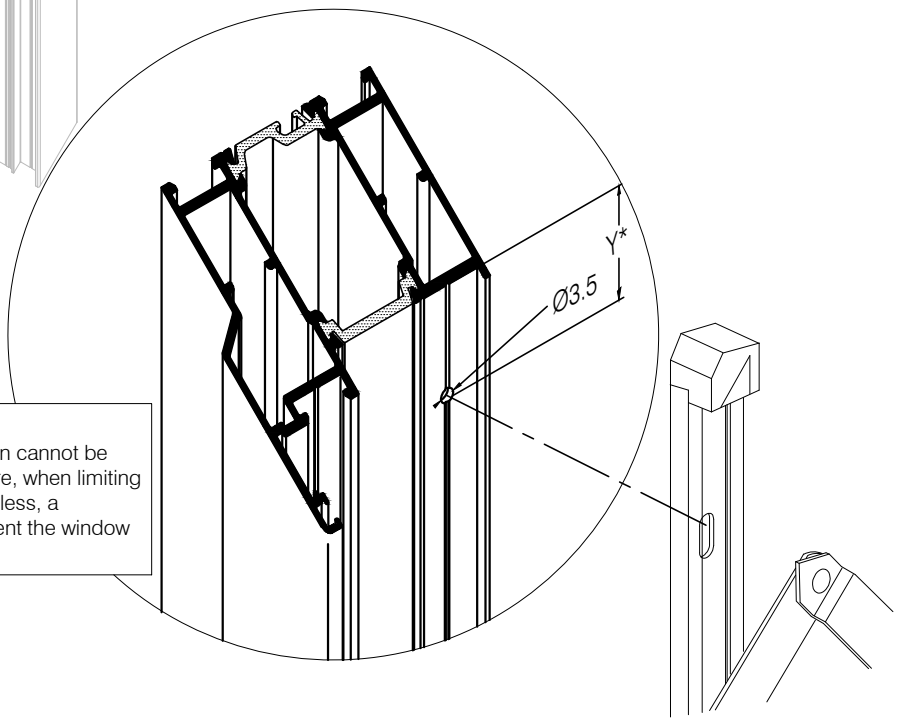
SUB TITLE **CASEMENT WINDOW**
HINGE PREPARATION



HINGE TYPE	VENT HOLE POSITION X	OUTER FRAME HOLE POSITION Y
16mm DEFENDER	20.2500	30.0000
16mm EGRESS	16.0000	36.6000
STERLING	18.5000	35.8000

* Indicates distance from datum hole to edge of sash

NOTE:
Hinge has been rotated 90° (cw) for clarity



IMPORTANT!
As with all types of friction hinges, friction cannot be provided until the slider moves. Therefore, when limiting the opening of vents to angles of 10° or less, a separate device will be required to prevent the window from closing.

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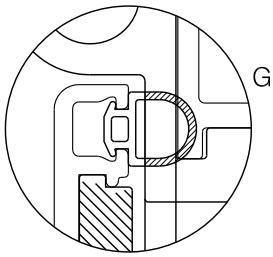
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TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

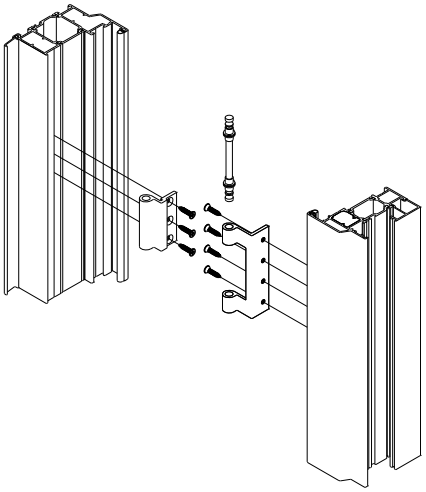
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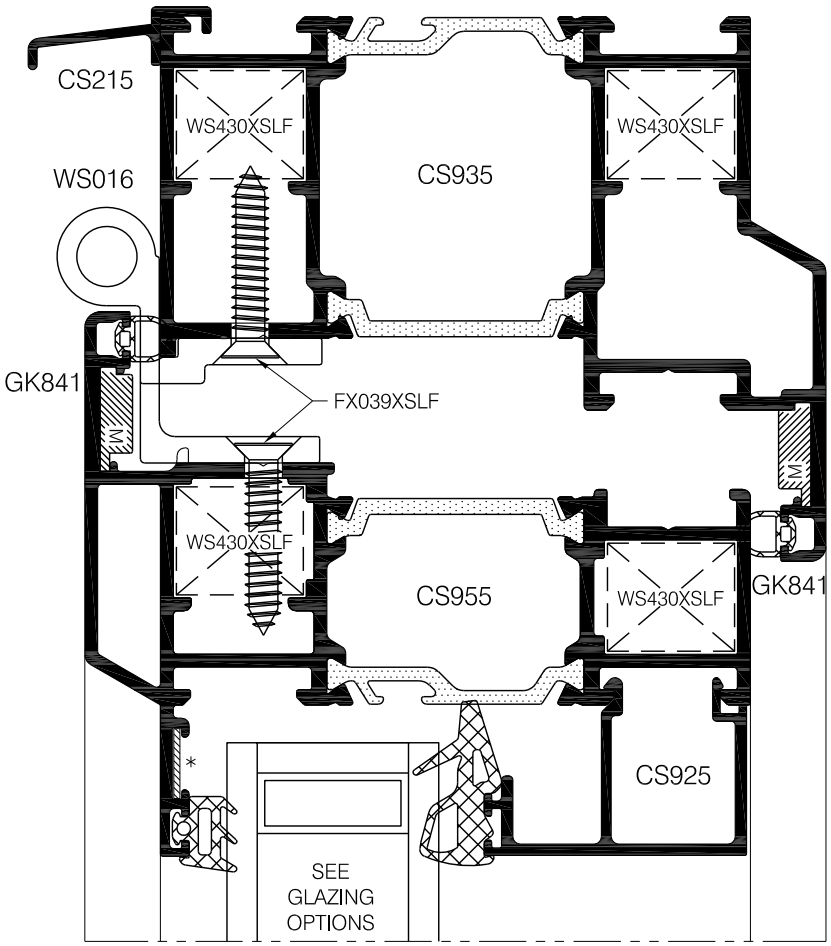
SUB TITLE
CASEMENT WINDOWS
WS016 BUTT HINGE PREPARATION

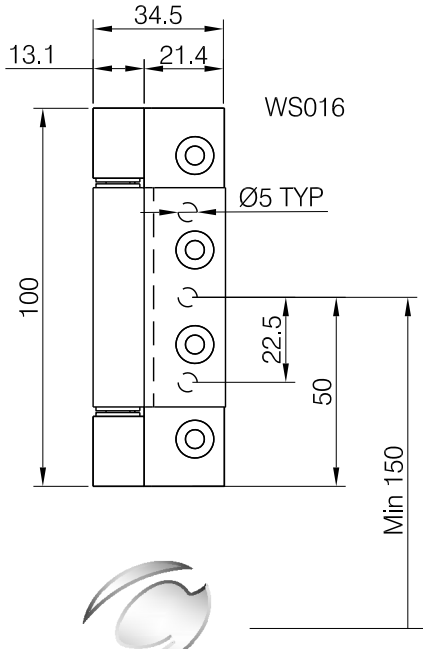


Remove 100mm of GK841 and the raised location pip on the vent profile as indicated.

THIS IS REQUIRED AT HINGE POSITION TO ALLOW FOR FITMENT OF THE HINGE

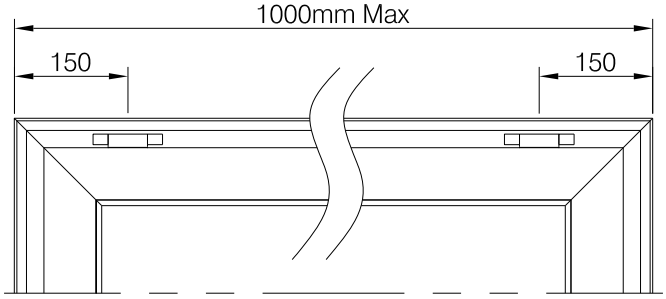






BUTT HINGE QTY.	MAX. WIDTH (mm)	MAX. WEIGHT (Kg)
2	1000	40
3	1500	60
4	--	80

1000mm MAX . WIDTH
40Kg MAX. WEIGHT
2 BUTT HINGES



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SCALE	1:1 @ A4
DATE	24/07/2019
DRAWN	APW/BB
DRG. No.	C9-Pi-PF-CW 3.20R2

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TITLE

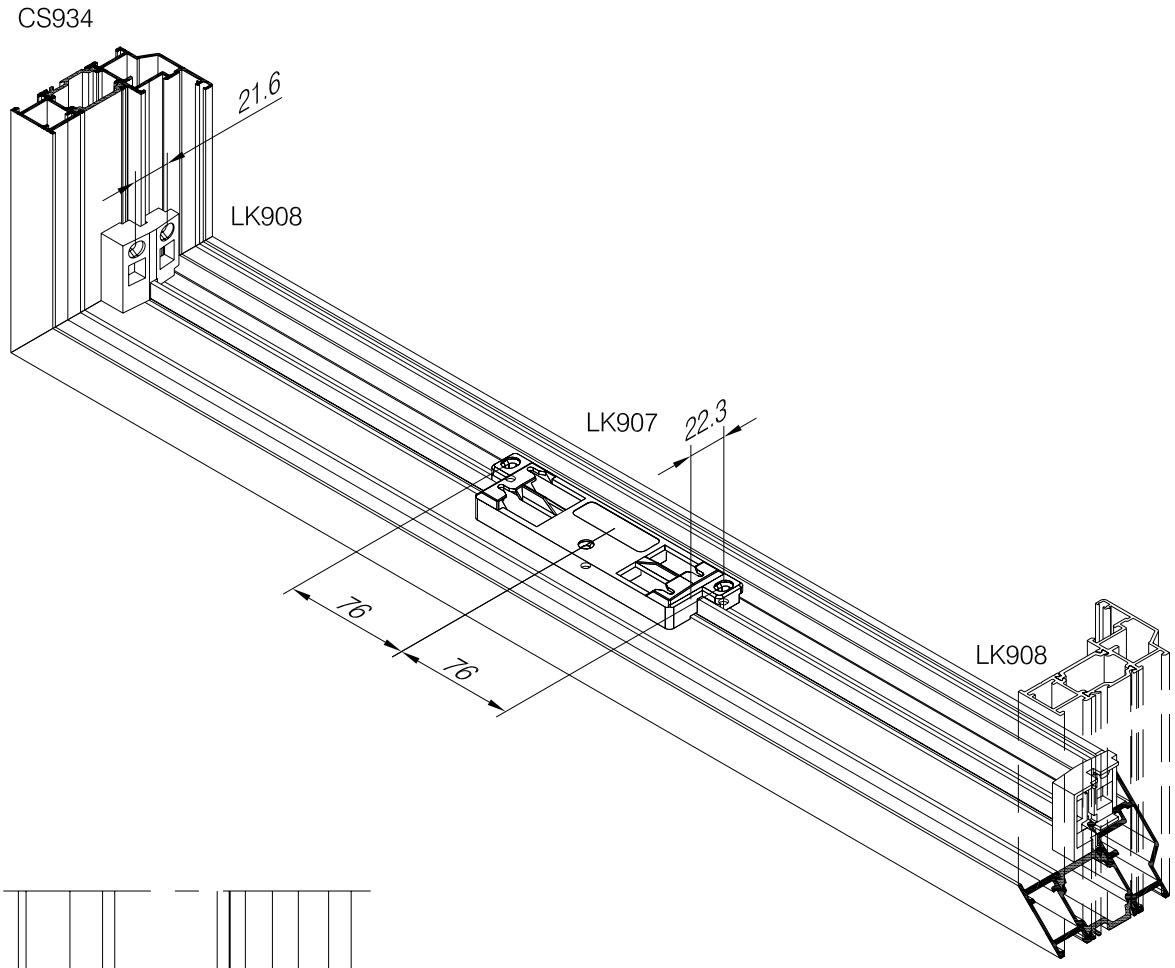
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

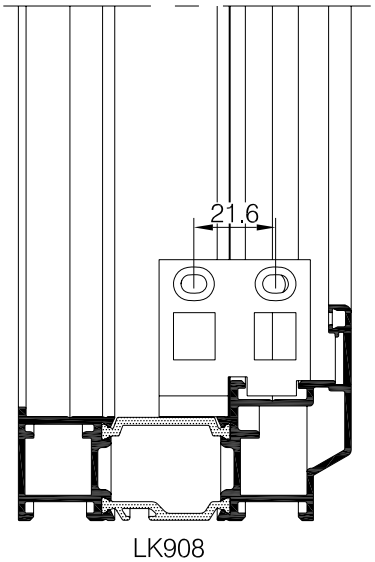
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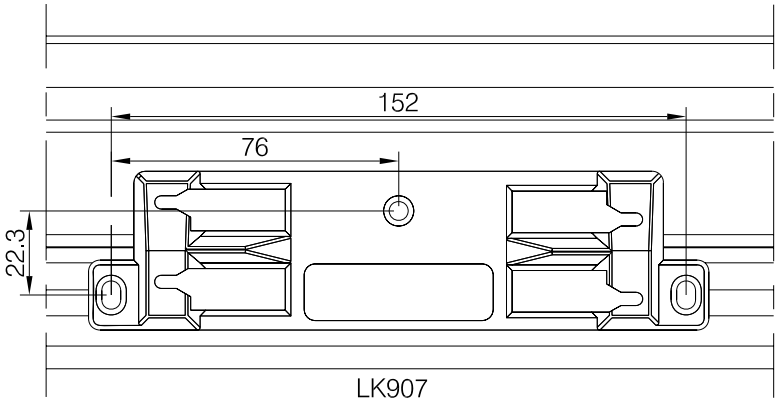
3.21

SUB TITLE

CASEMENT WINDOWS
SHOOTBOLT KEEPS PREPARATION







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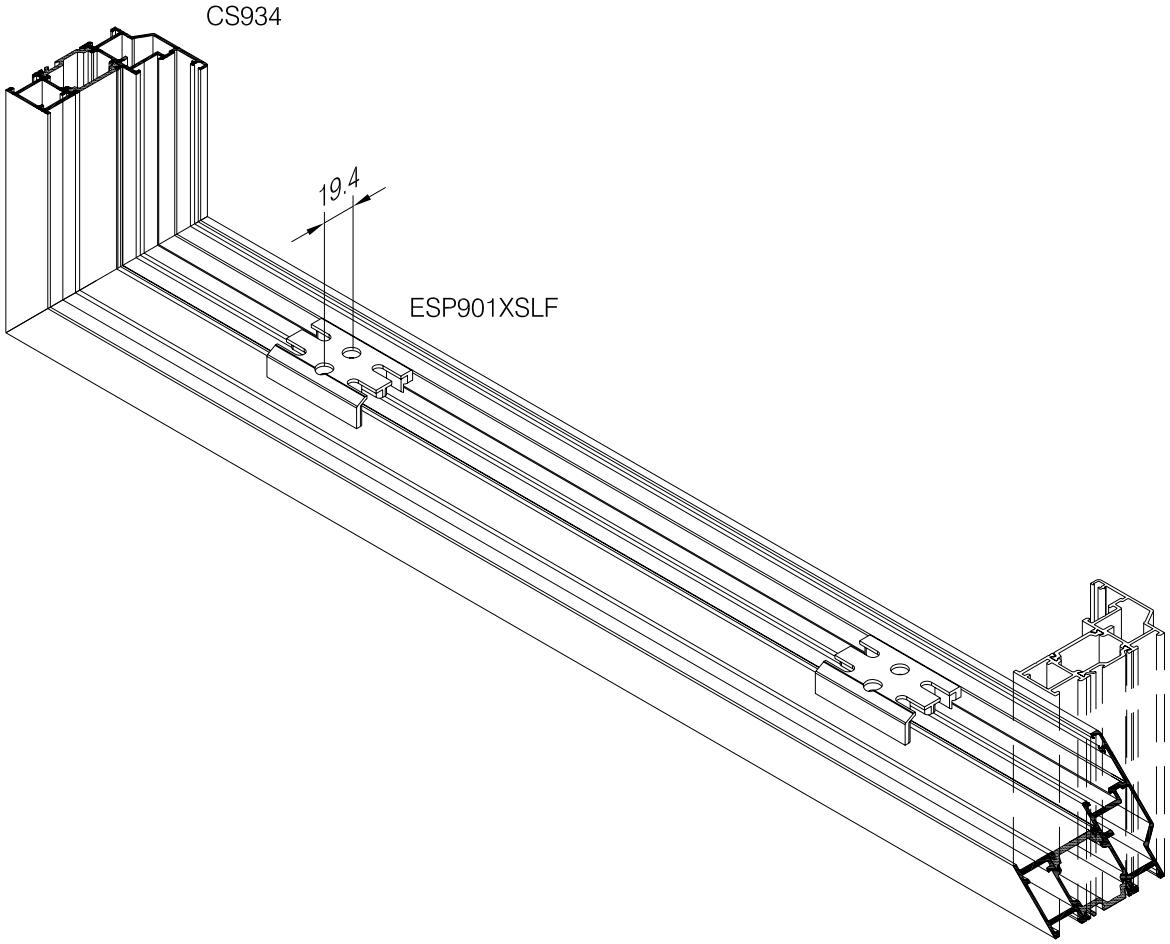
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DATE	03-10-2011
DRAWN	OP/APW
DRG. No.	C9-Pi-PF-CW 3.21 R1

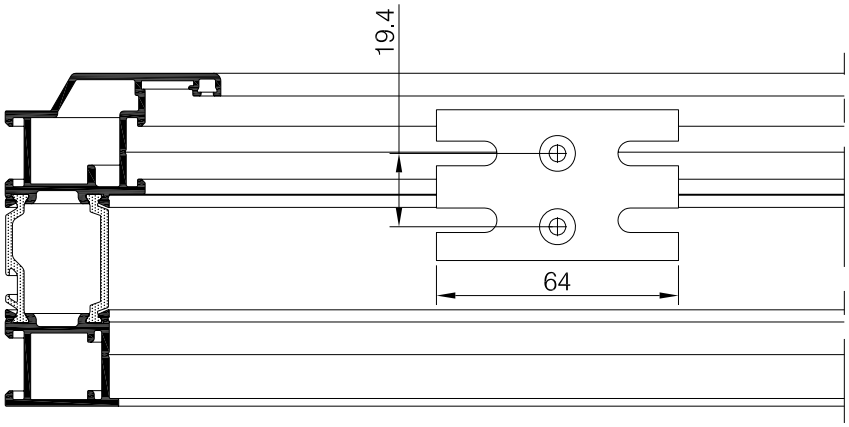
comar9Pi

TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
3.22

SUB TITLE
CASEMENT WINDOWS
ESPAG KEEPS PREPARATION





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SCALE	NTS @ A4
DATE	03-10-2011
DRAWN	OP/APW
DRG. No.	C9-Pi-PF-CW 3.22 R1

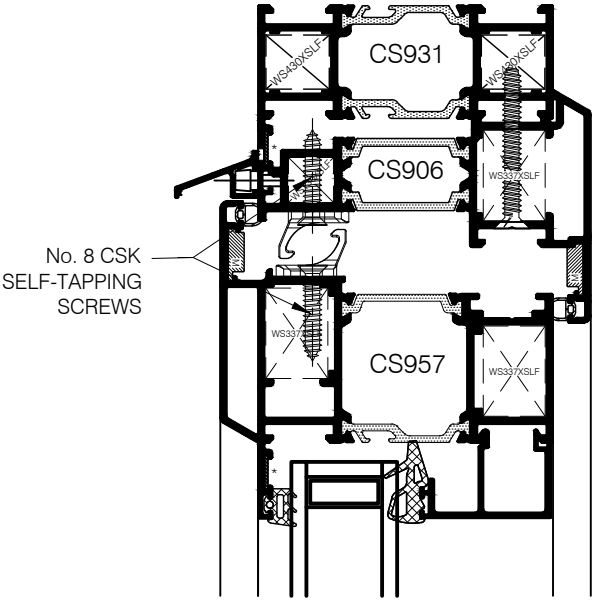
comar 9P.i

TITLE **PERFORMANCE FRAMING SYSTEM**
FRAMING, WINDOWS & DOORS

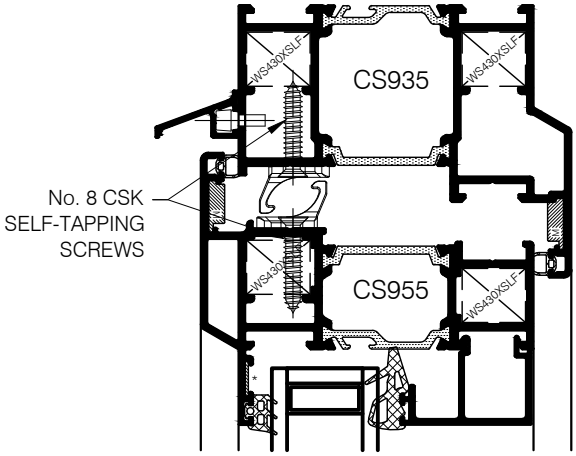
SHEET No. **3.23**

SUB TITLE **CASEMENT WINDOW**
EXCLUDER, LIFTING & ALIGNMENTRAMP DETAILS

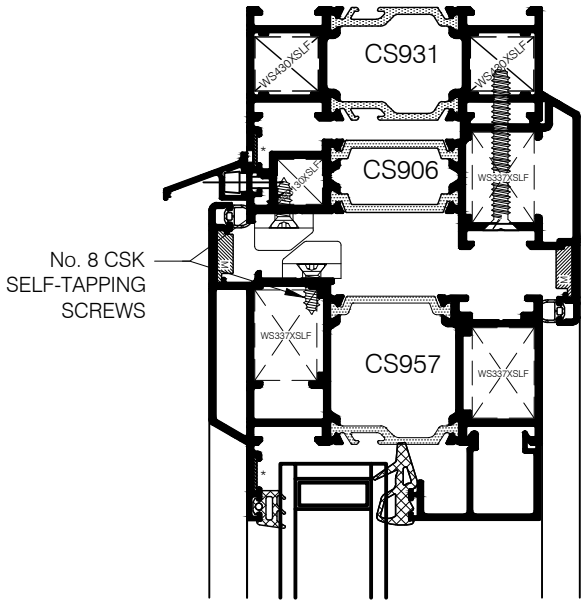
16 mm EXCLUDER DETAILS (LK817XSLF)



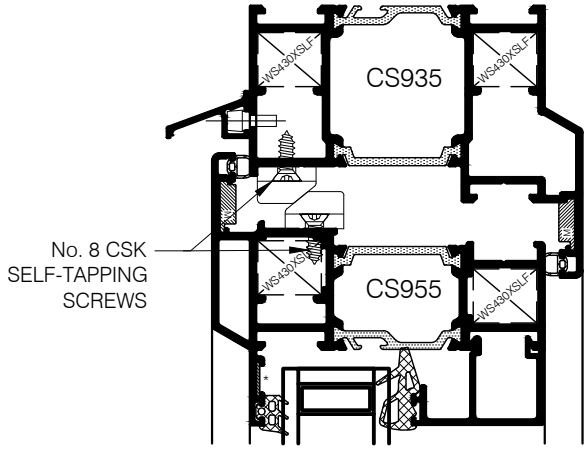
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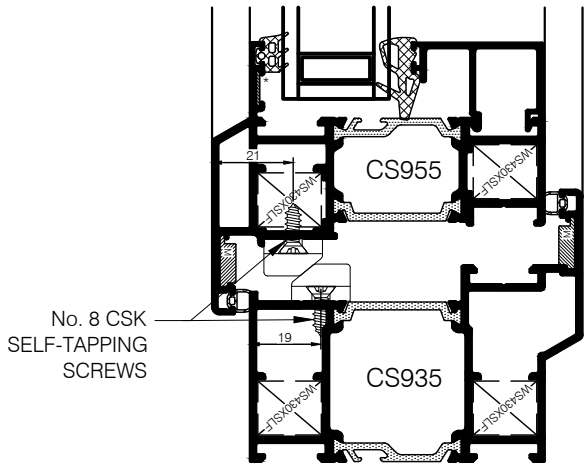
LIFTING RAMPS DETAILS (WS564EWHT)



LIFTING RAMPS DETAILS (WS564EWHT)



ALIGNMENT RAMPS DETAILS (WS564EWHT



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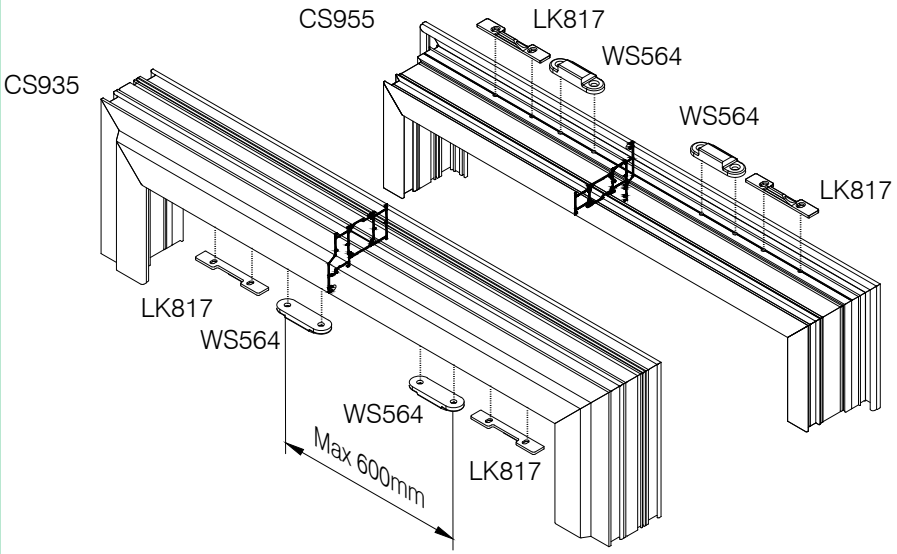
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DATE	19/08/2020
DRAWN	NRA/BB
DRG. No.	C9-Pi-PF-CW 3.23 R4

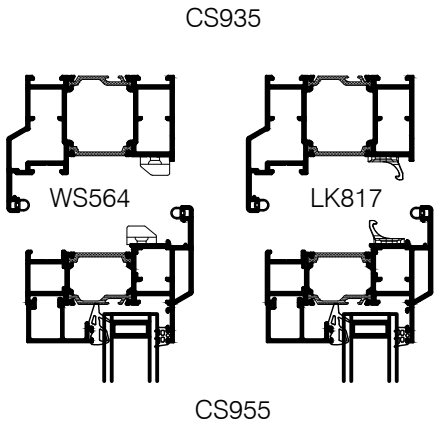
comar 9Pi

TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
3.24

SUB TITLE
CASEMENT WINDOWS
EXCLUDER AND LIFTING RAMP DETAILS







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SCALE	NTS @ A4
DATE	19/08/2020
DRAWN	NRA/BB
DRG. No.	C9-Pi-PF-CW 3.24 R4

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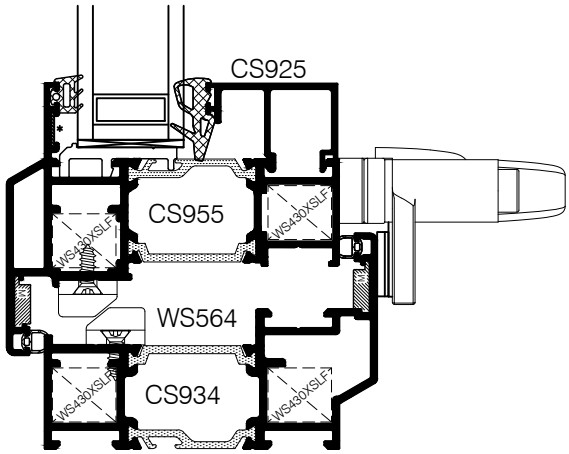
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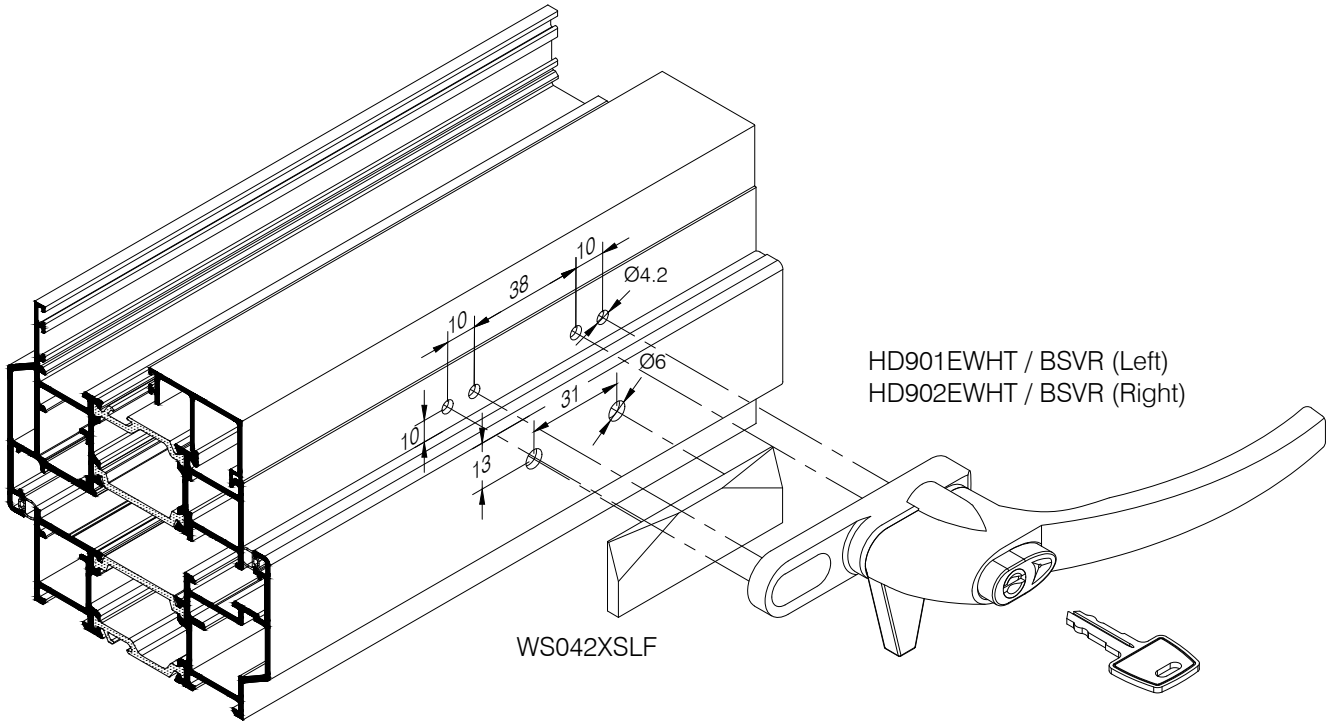
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No. **3.25**

SUB TITLE

CASEMENT WINDOWS
COCKSPUR HANDLE PREPARATION





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SCALE	1:2 @ A4
DATE	19/08/2020
DRAWN	VM / NRA
DRG. No.	C9–Pi–PF–CW 3.25 R3

comar9Pi

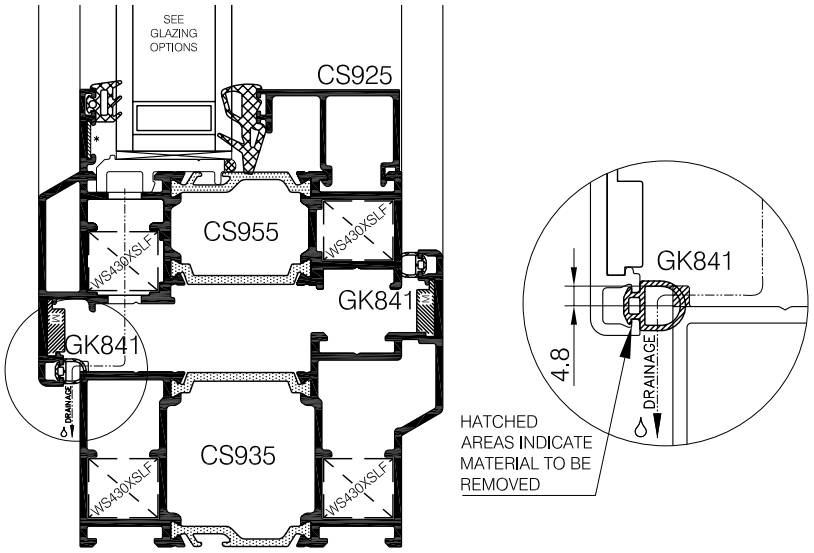
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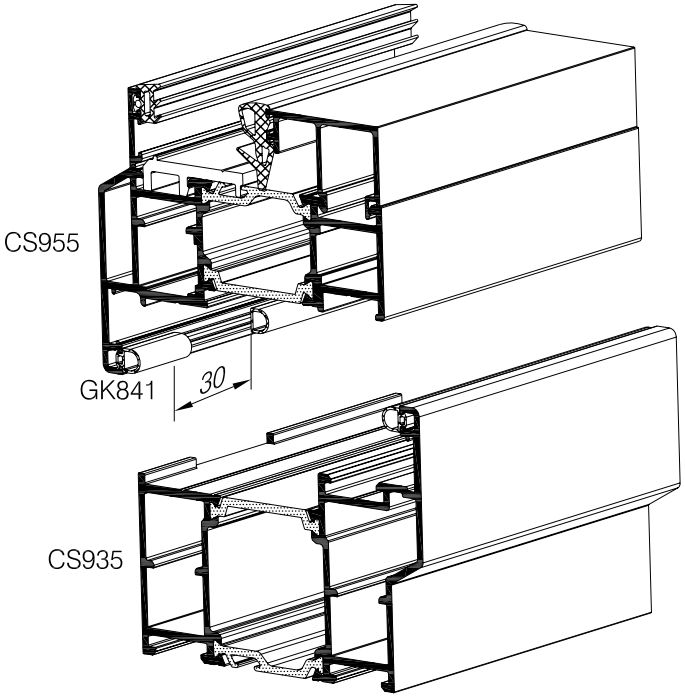
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No. **3.26**

SUB TITLE

CASEMENT WINDOWS
GK 841 PREPARATION AT DRAINAGE SLOT POSITION





NOTE: CUT GK841 TO CORRESPOND WITH OPPOSITE SLOT (LENGTH = 30 mm) TO ALLOW FOR APPROPRIATE DRAINAGE

TOOLING STATION:
COM9Pi T1 S7
SEE PG. 4.11 FOR DETAILS

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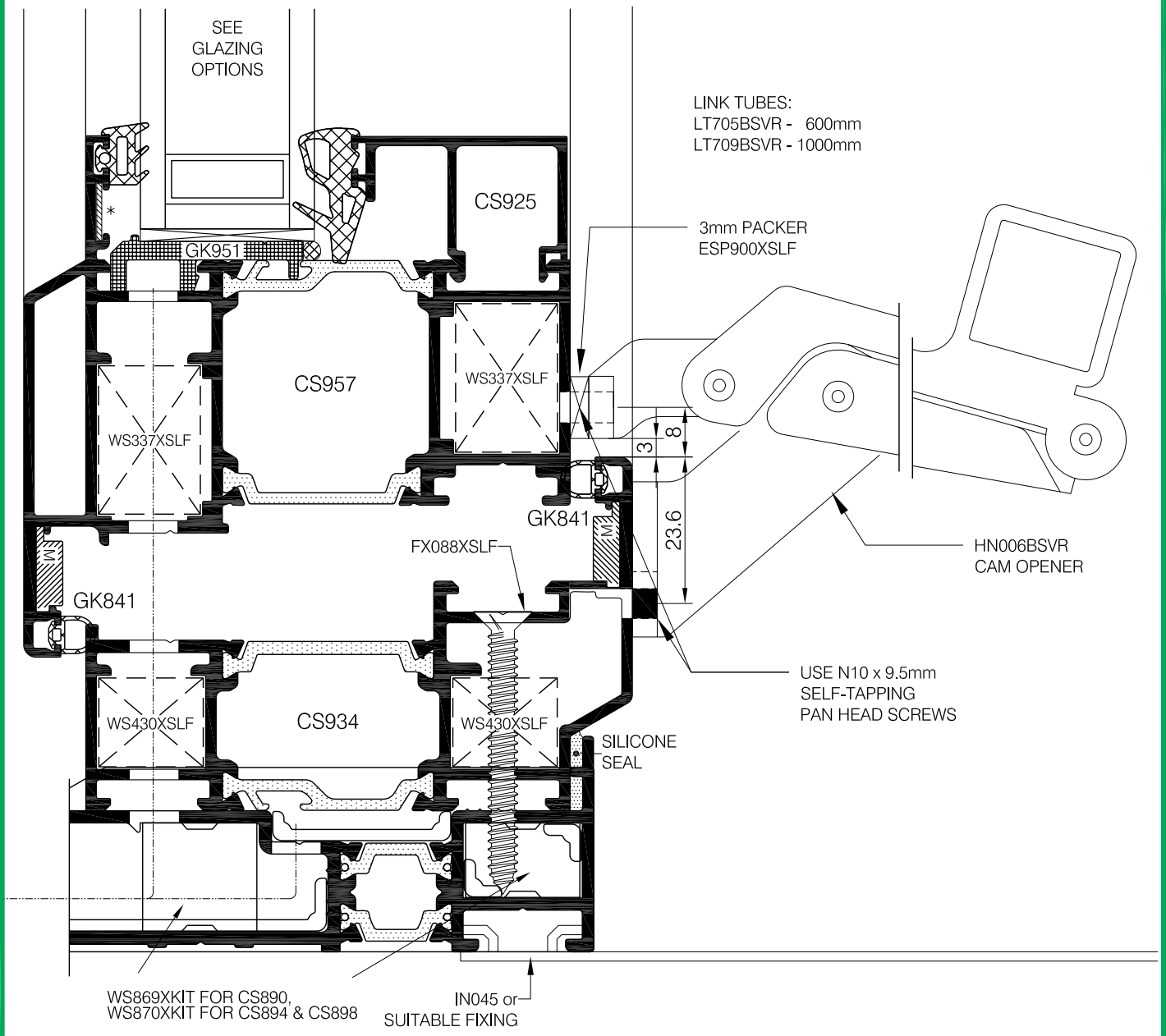
SCALE	NTS @ A4
DATE	03-10-2011
DRAWN	VM / APW
DRG. No.	C9-Pi-PF-CW 3.26 R1

comar9Pi

TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
3.27

SUB TITLE
CASEMENT WINDOWS
FOLDING OPENER DETAIL



* DENOTES WS015XSLF CHEVRON

M DENOTES WS416XSLF ALIGNMENT SQUARE

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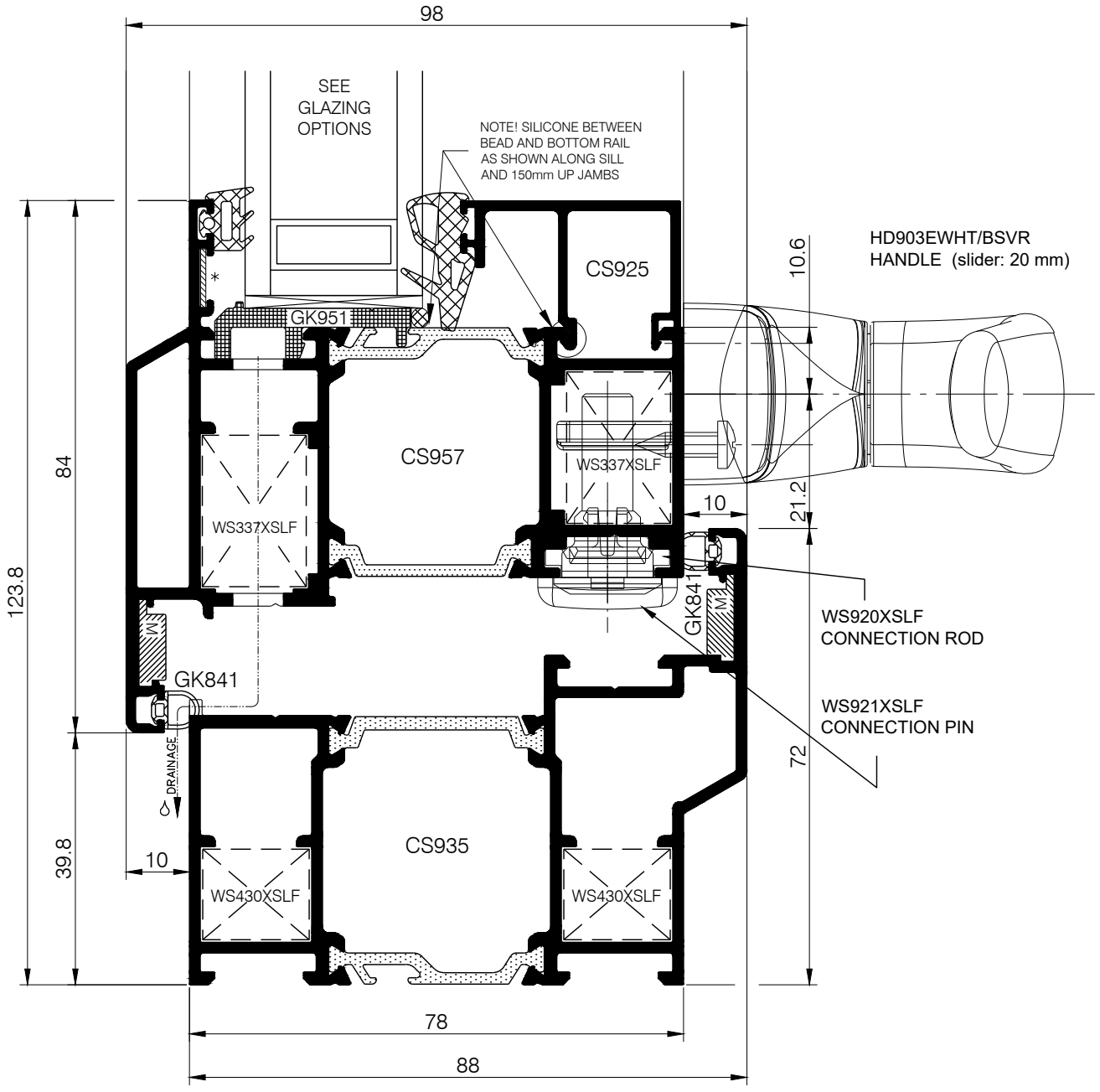
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DATE	12-04-2011
DRAWN	VM / CAD
DRG. No.	C9-Pi-PF-CW 3.27 R1

comar 9Pi

TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
3.28

SUB TITLE
CASEMENT WINDOWS
SILL DETAILS-CS957/CS935 PERIMETER LOCKING



NOTE:

NOTCH GASKET FOR DRAINAGE (SEE PG. 3.26)

* DENOTES WS015XSLF CHEVRON

M DENOTES WS416XSLF ALIGNMENT SQUARE

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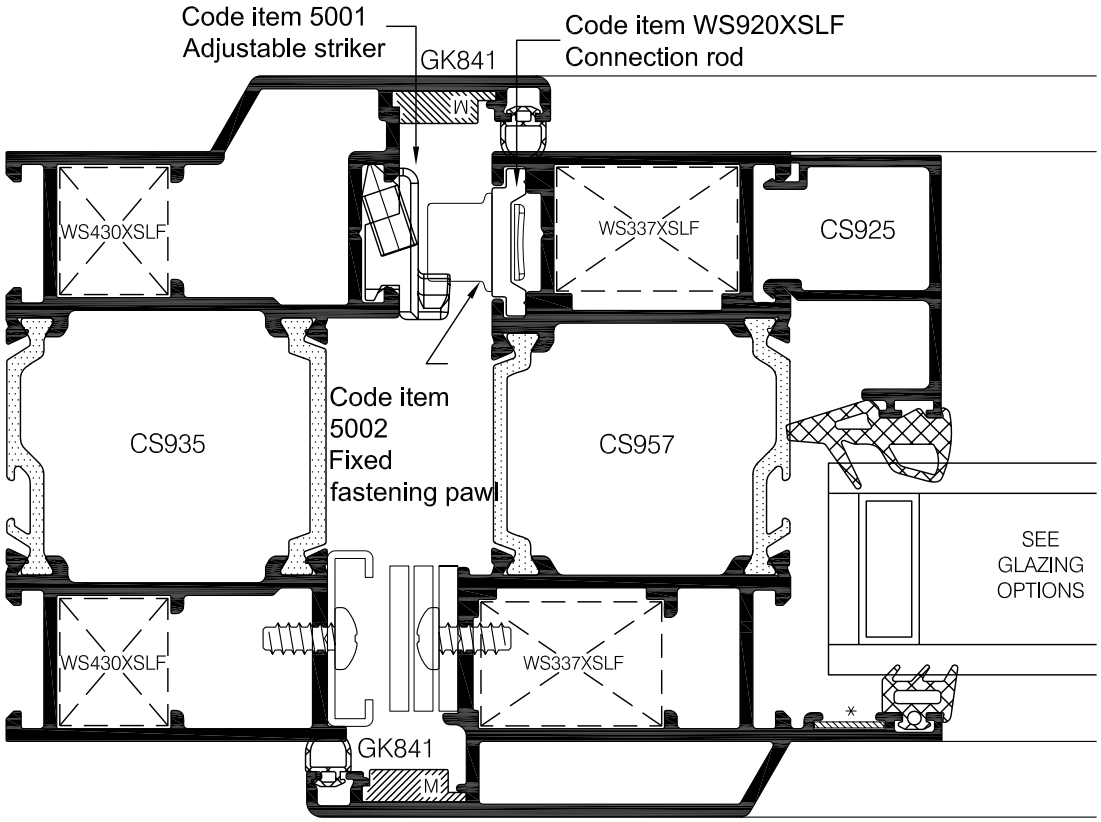
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DATE	13-07-2020
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DRG. No.	C9-Pi-PF-CW 3.28R2

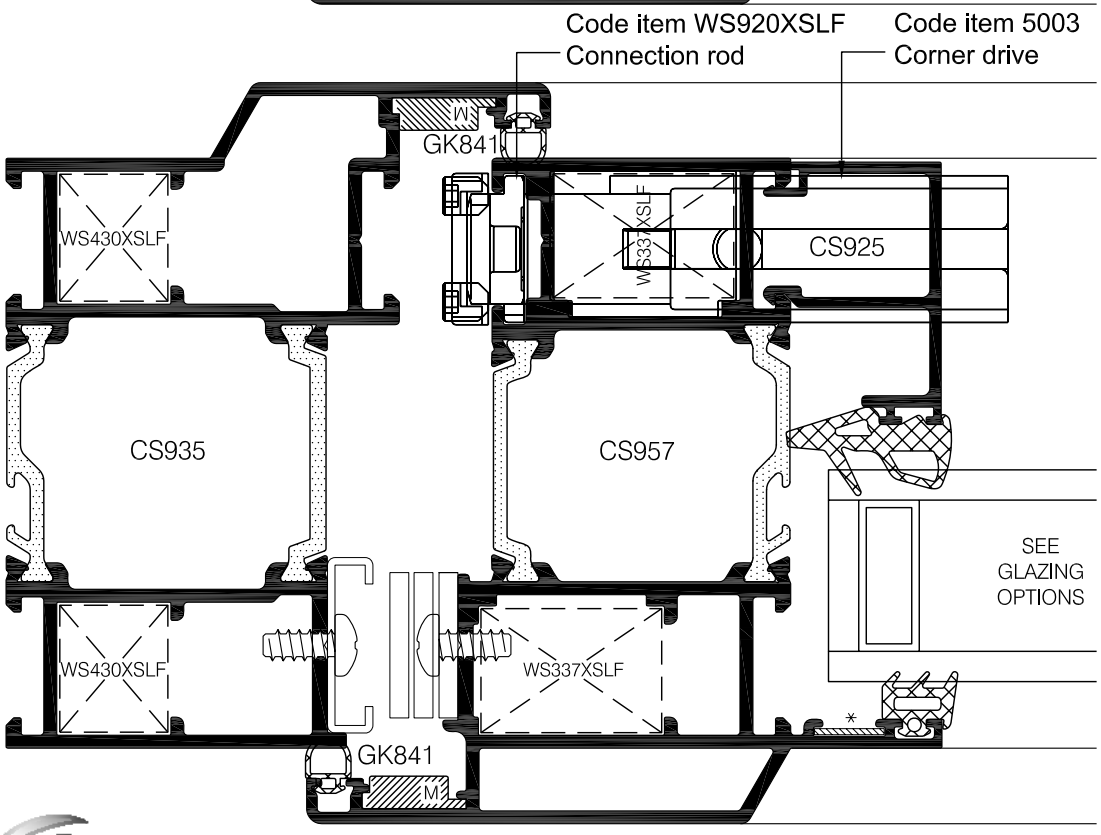
comar9Pi

TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
3.29

SUB TITLE
CASEMENT WINDOWS
JAMB DETAILS - CS957 / CS935 PERIMETER LOCKING





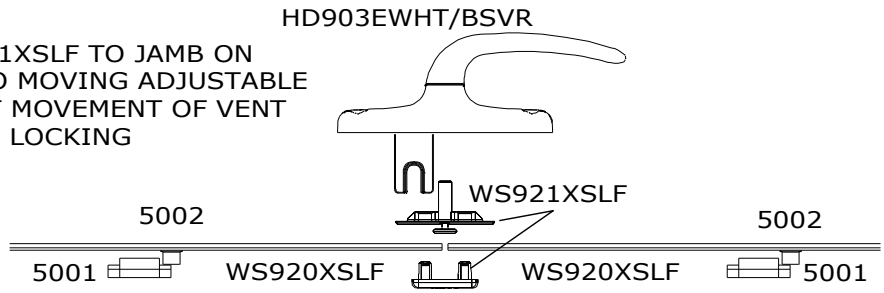
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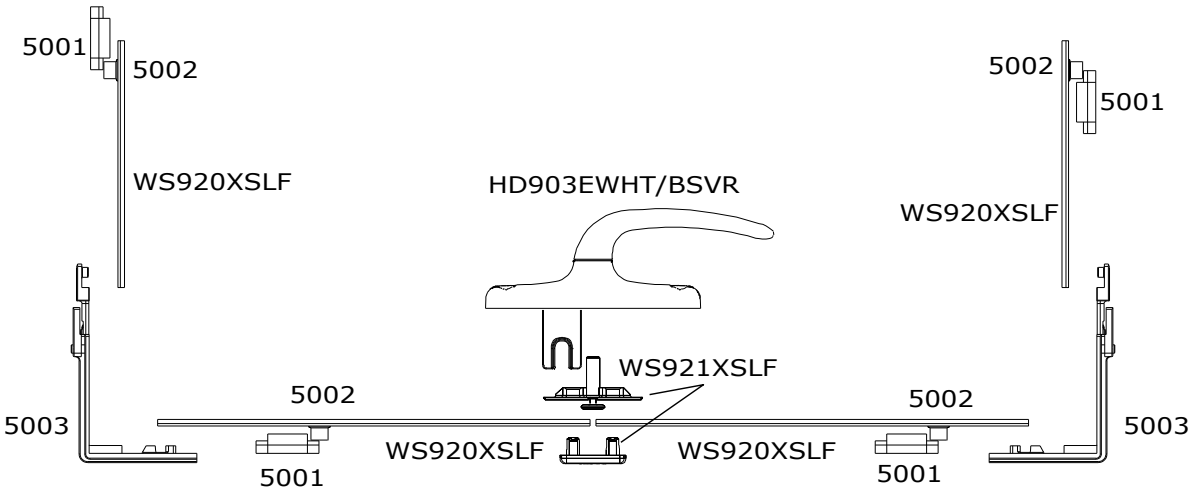
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SCALE	1:1 @ A4
DATE	07-02-2011
DRAWN	VM / CAD
DRG. No.	C9-Pi-PF-CW 3.29 R1

FIT PAIR OF WS561XSLF TO JAMB ON OPPOSITE SIDE TO MOVING ADJUSTABLE PAWL TO PREVENT MOVEMENT OF VENT WHEN OPERATING LOCKING



OPTION 1 - 2 POINTS
VENTS < 1500mm HEIGHT



OPTION 2 - 4 POINTS
VENTS > 1500mm HEIGHT

VENT HARDWARE LIST		LOCKING	
Part No	Description	2 points	4 points
5001XSLF	Striker	2 of	4 of
5002XSLF	Adjustable pawl	2 of	4 of
5003XSLF	Corner drive	0 of	2 of
WS920XSLF	Perimeter Link rod (P-perimeter)	P/4	P/2
WS921XSLF	Perimeter connection pin	1* of	1* of
HD903BSVR	Handle (EWHT-white/BSVR-silver)	1* of	1* of

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SCALE	1:1 @ A4
DATE	13-07-2020
DRAWN	VM / NRA
DRG. No.	C9-Pi-PF-CW 3.30R2

comar 9P.i

TITLE **PERFORMANCE FRAMING SYSTEM**
FRAMING, WINDOWS & DOORS

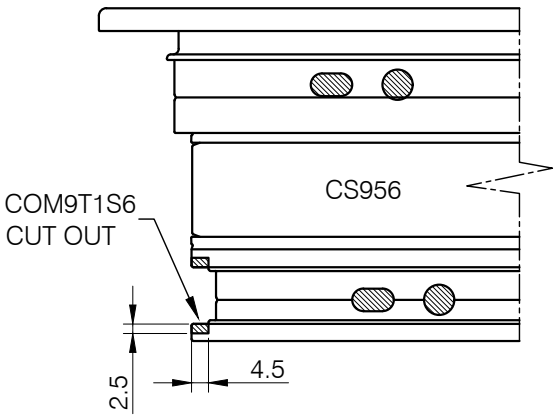
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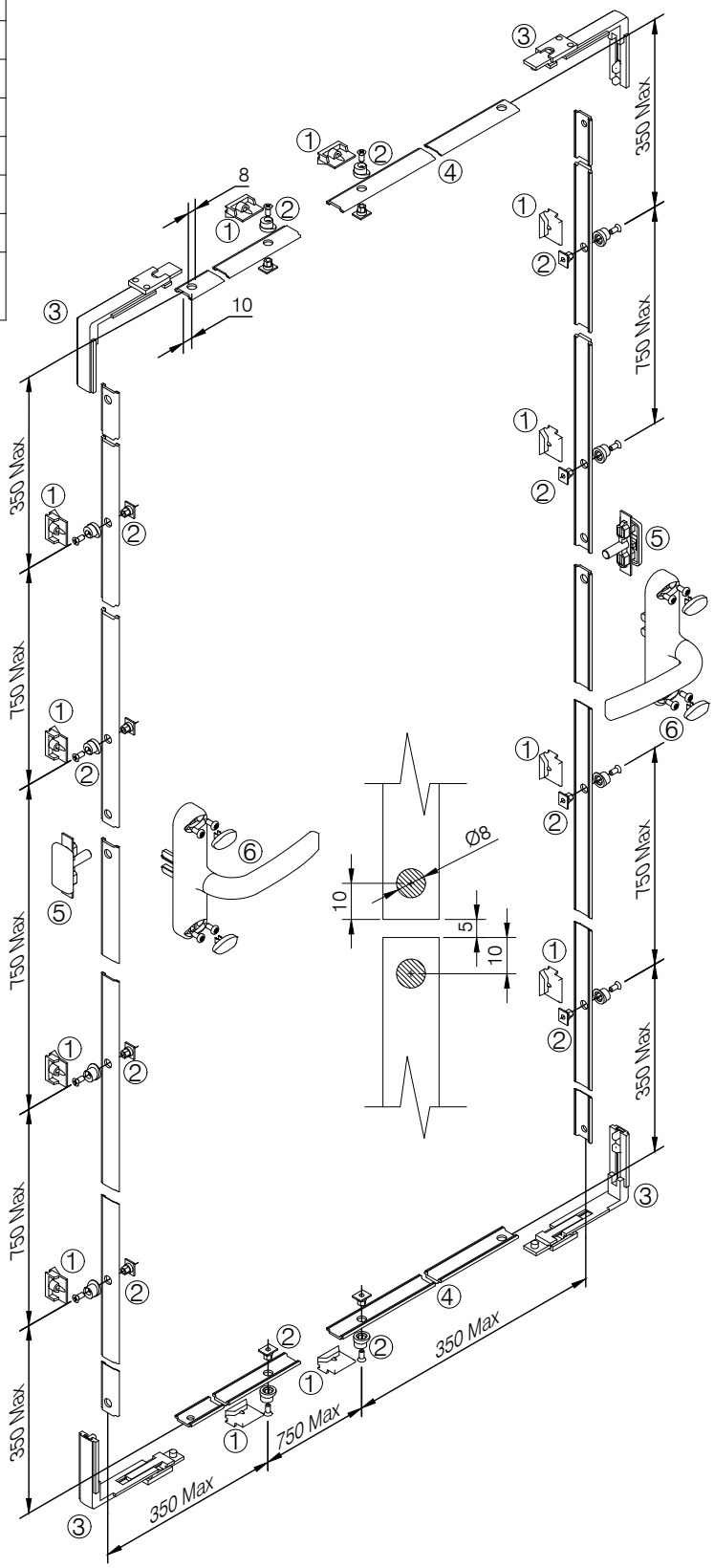
SUB TITLE **CASEMENT WINDOW**
HINGE PREPARATION

VENT HARDWARE LIST		
	Part No	Description
1	XX5001XSLF	Striker
2	XX5002XSLF	Adjustable pawl
3	XX5003XSLF	Corner drive
4	WS920XSLF	Perimeter Link rod (P-perimeter)
5	WS921XSLF	Perimeter connection pin
6	HD903EWHT/BSVR	Handle (EWHT-white/BSVR-silver)

* For handles quantity using parallel hinge option please see page Ref: 3.32

CORNERS PREPARATION





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SCALE	NTS @ A4
DATE	13/07/2020
DRAWN	VM/NRA
DRG. No.	C9-Pi-PF-CW 3.31 R3

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TITLE

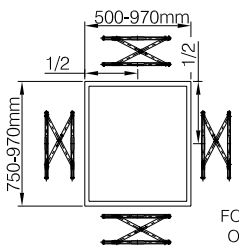
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

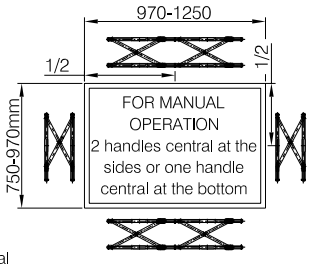
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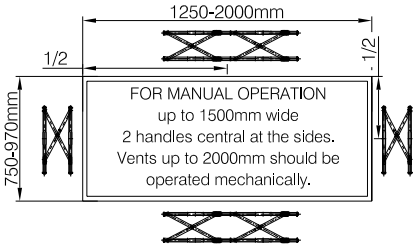
SUB TITLE

CASEMENT WINDOWS
PARALLEL HINGES CHART

STANDARD PARALLEL
Maximum vent weight for manual operation is 100kg

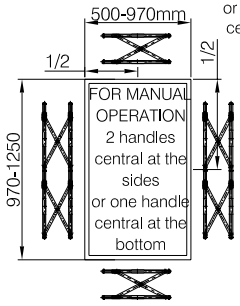


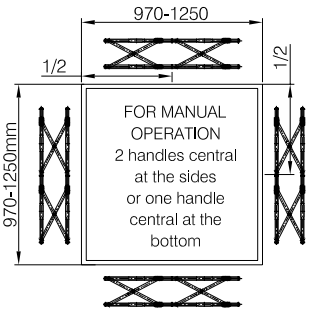


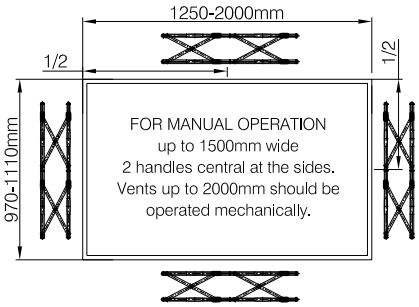


FOR MANUAL OPERATION
2 handles central at the sides or one handle central at the bottom

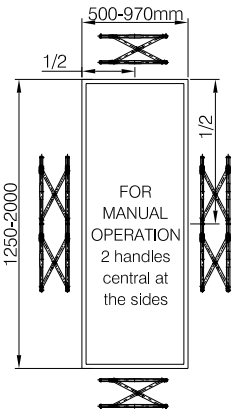
DUAL PARALLEL
Maximum vent weight for manual operation is 200kg

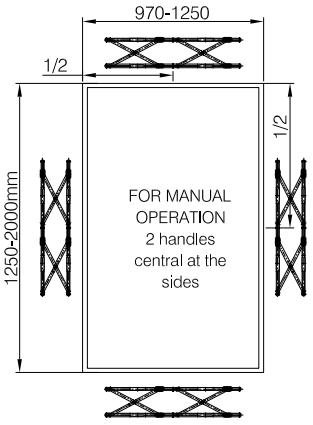




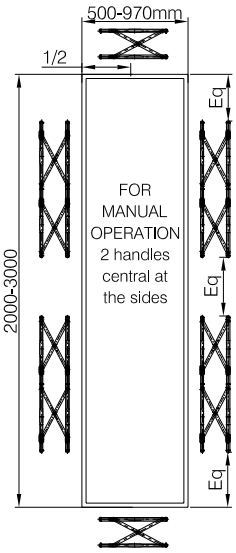


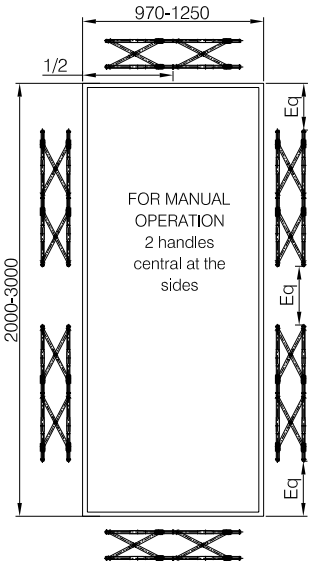
DUAL PARALLEL
Maximum vent weight for manual operation is 200kg





DUAL PARALLEL
Maximum vent weight for manual operation is 200kg







Standard parallel stay 18.5"
HN600XSLF



Opening distance 180mm
Dual parallel stay 36"
HN601XSLF

Important note: in order to fit parallel hinges* overall vent size has to be reduced by 2 mm

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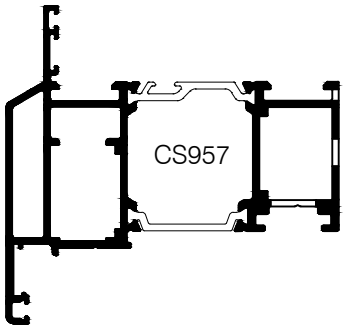
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DRG. No.	C9-Pi-PF-CW 3.32 R1

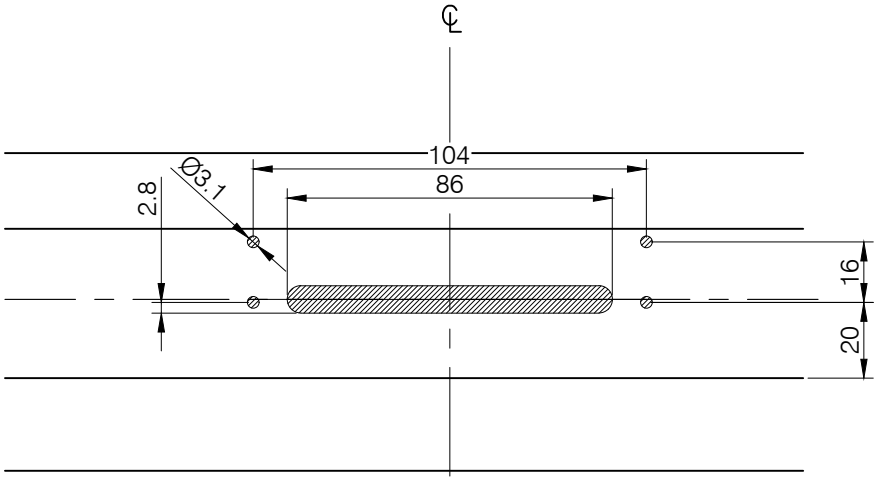
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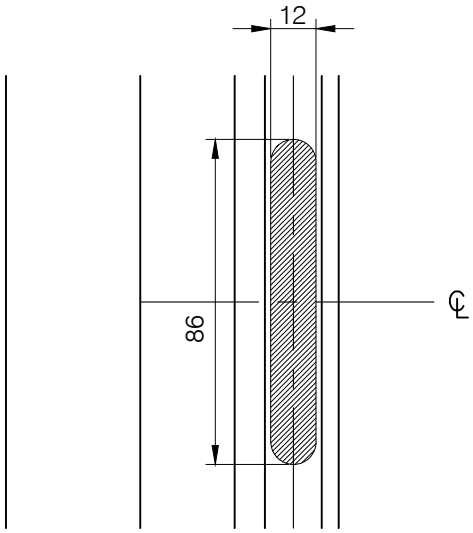
TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
3.33

SUB TITLE
CASEMENT WINDOWS
PARALLEL HANDLE PREPARATIONS







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DATE	04/07/2016
DRAWN	NRA
DRG. No.	C9-Pi-PF-CW 3.33

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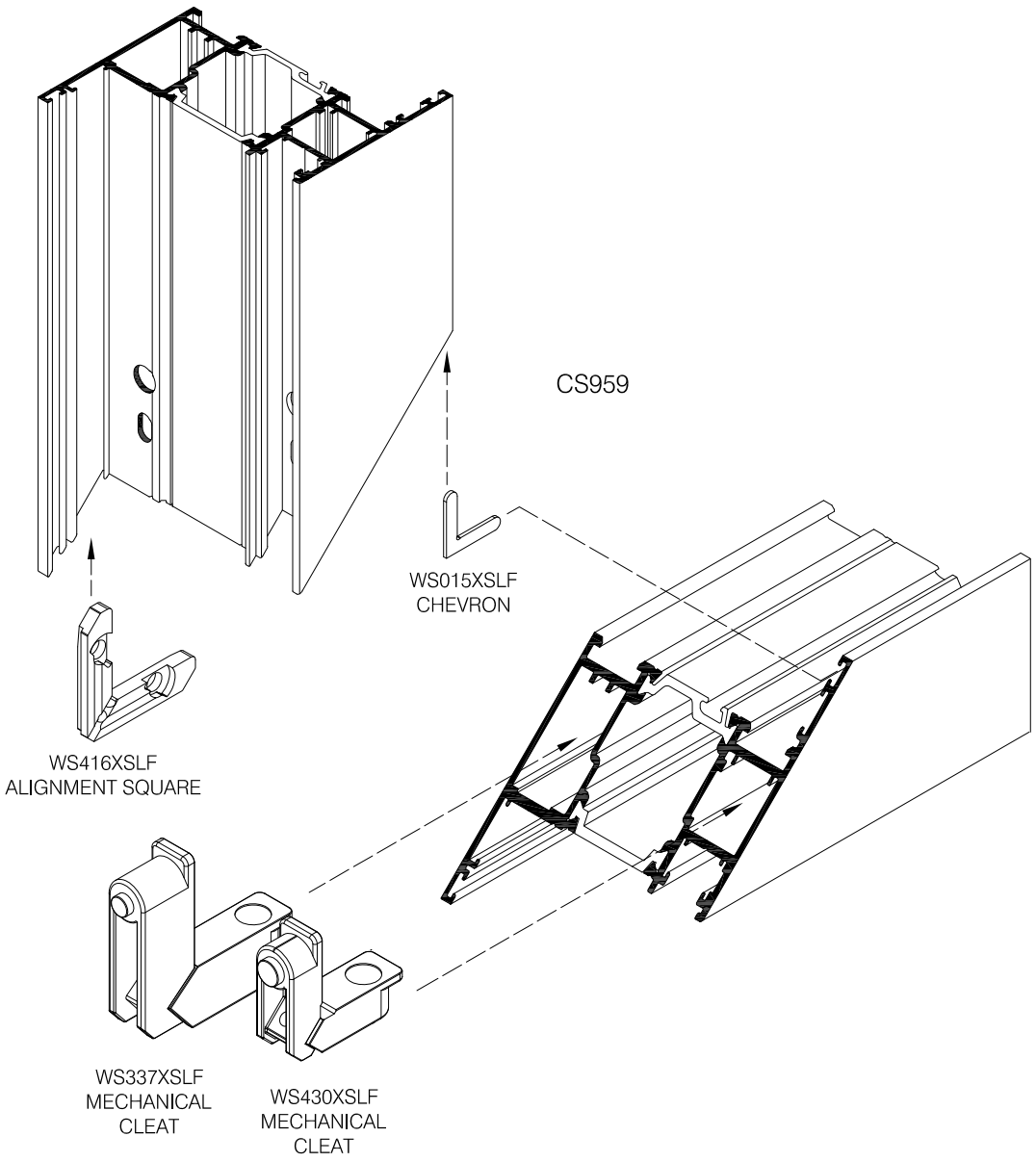
TITLE

PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No. **3.34**

SUB TITLE

CASEMENT WINDOWS EXTERNALLY BEADED
CLEAT PREPARATION ASSEMBLY - CS959



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SCALE	NTS @ A4
DATE	01/12/2016
DRAWN	NRA
DRG. No.	C9–Pi–PF–CW 3.34

comar9Pi

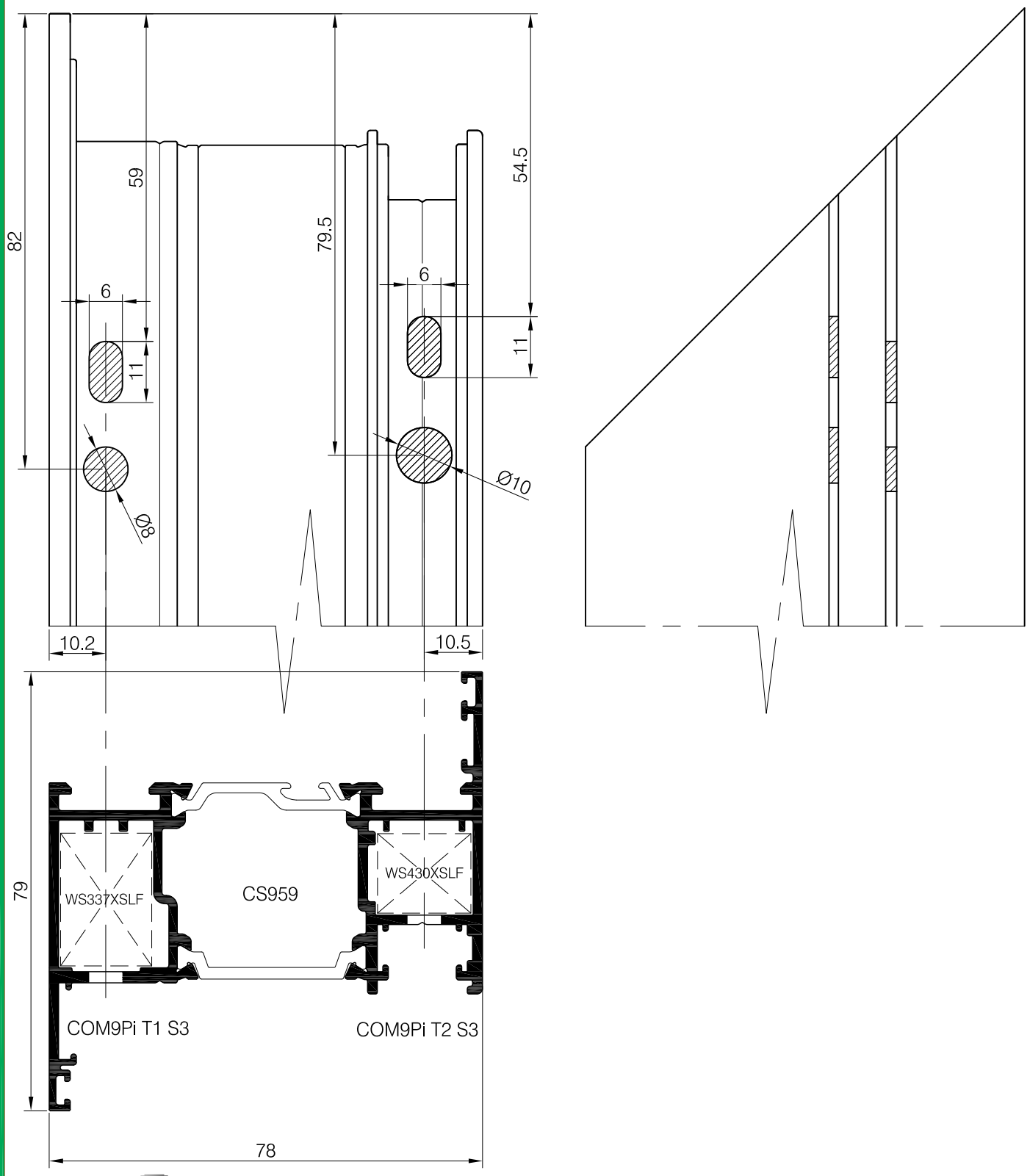
TITLE

PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No. 3.35

SUB TITLE

CASEMENT WINDOWS EXTERNALLY BEADED
CLEAT PREPARATION CS959



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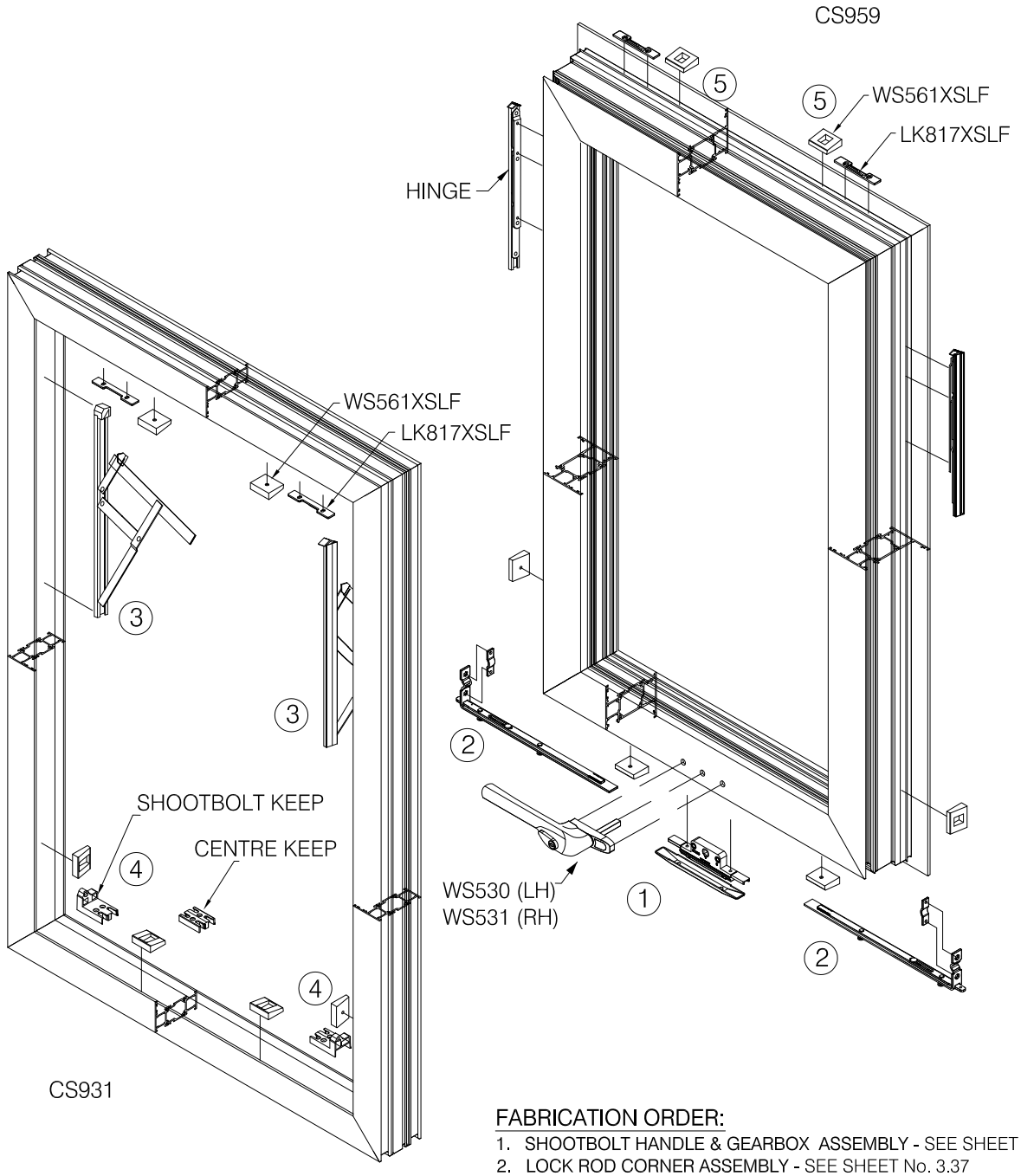
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DRG. No.	C9-Pi-PF-CW 3.35R1

comar9Pi

TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
3.36

SUB TITLE
CASEMENT WINDOWS
WINDOW ASSEMBLY - CS959 (SHOOTBOLT)



FABRICATION ORDER:

1. SHOOTBOLT HANDLE & GEARBOX ASSEMBLY - SEE SHEET No. 3.38
2. LOCK ROD CORNER ASSEMBLY - SEE SHEET No. 3.37
3. FRICTION HINGE FITMENT - SEE SHEET No.3.19
4. LOCKING KEEPS FITMENT - SEE SHEET No. 3.36
5. ANCILLARY FITMENT - SEE SHEET No. 3.24

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DATE	01/12/2016
DRAWN	NRA
DRG. No.	C9–Pi–PF–CW 3.36

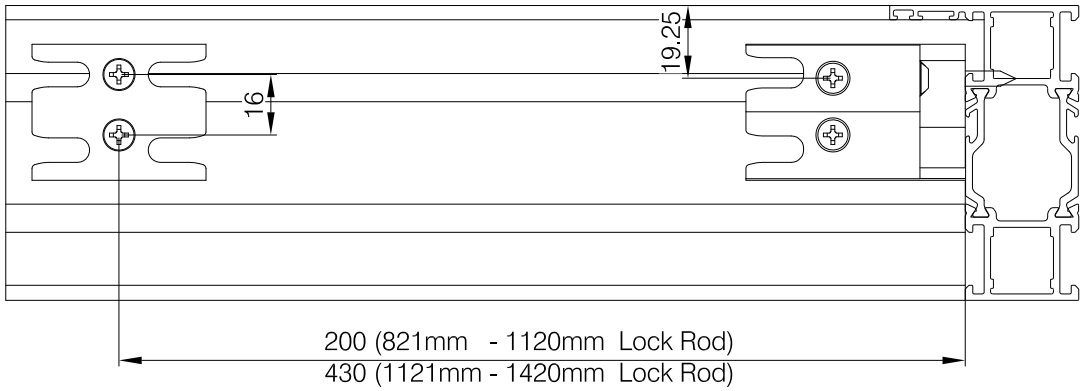
comar 9Pi

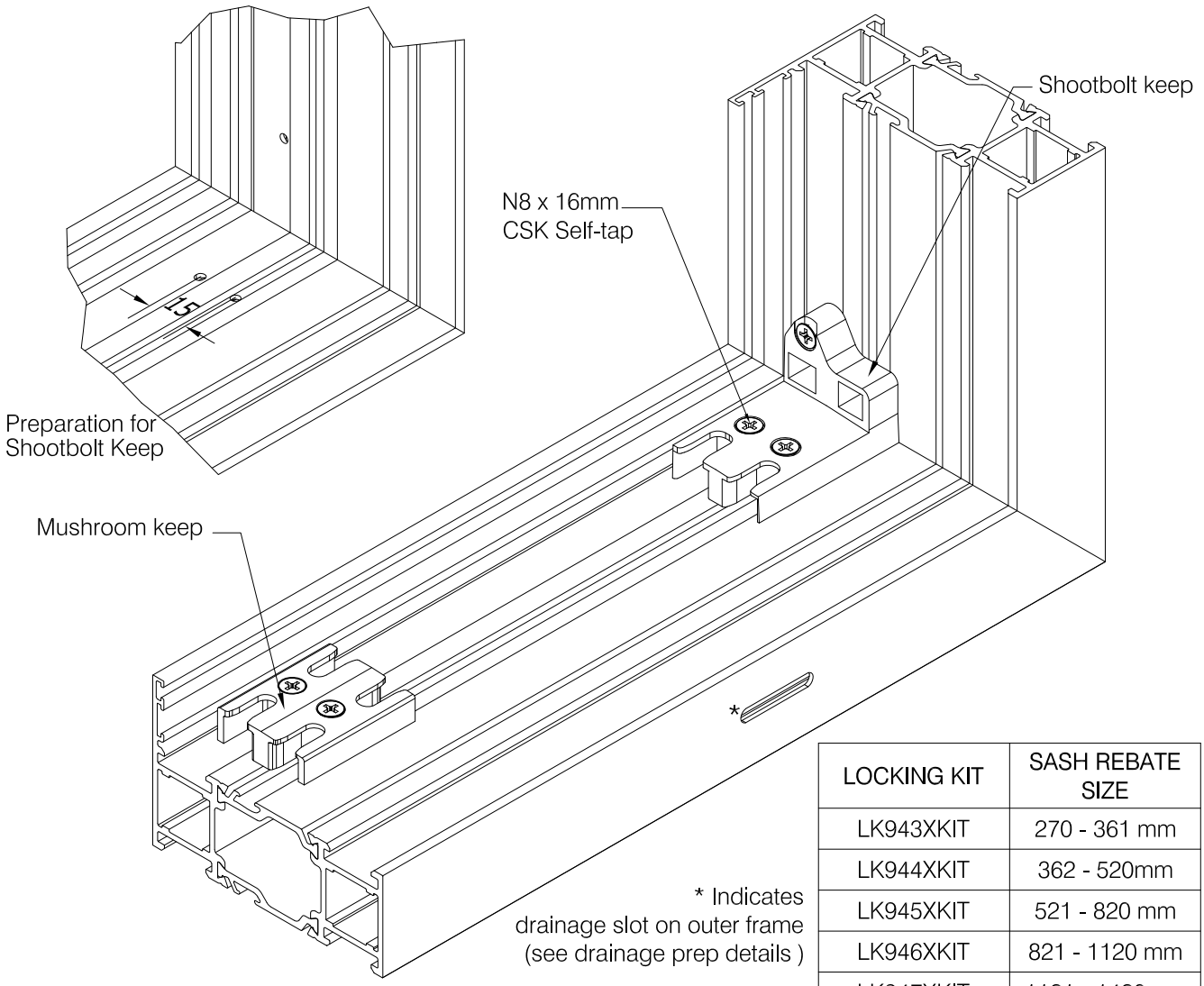
TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
3.37

SUB TITLE
CASEMENT WINDOWS EXTERNALLY BEADED CS959
SHOOTBOLT KEEP POSISTION

Plan View Detail





LOCKING KIT	SASH REBATE SIZE
LK943XKIT	270 - 361 mm
LK944XKIT	362 - 520mm
LK945XKIT	521 - 820 mm
LK946XKIT	821 - 1120 mm
LK947XKIT	1121 - 1420mm

* Indicates
drainage slot on outer frame
(see drainage prep details)

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DRAWN	NRA
DRG. No.	C9–Pi–PF–CW 3.37

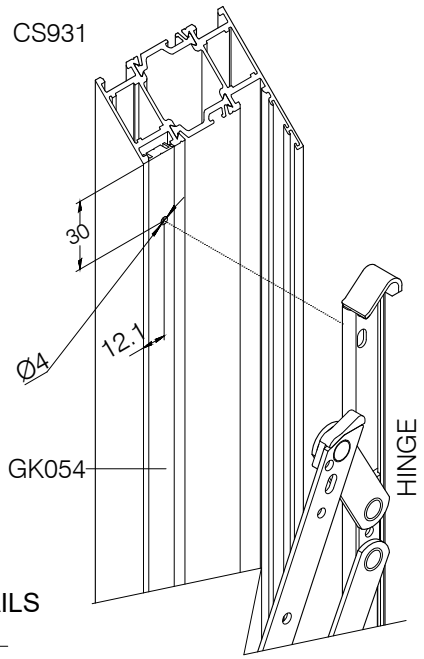
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TITLE **PERFORMANCE FRAMING SYSTEM**
FRAMING, WINDOWS, DOORS

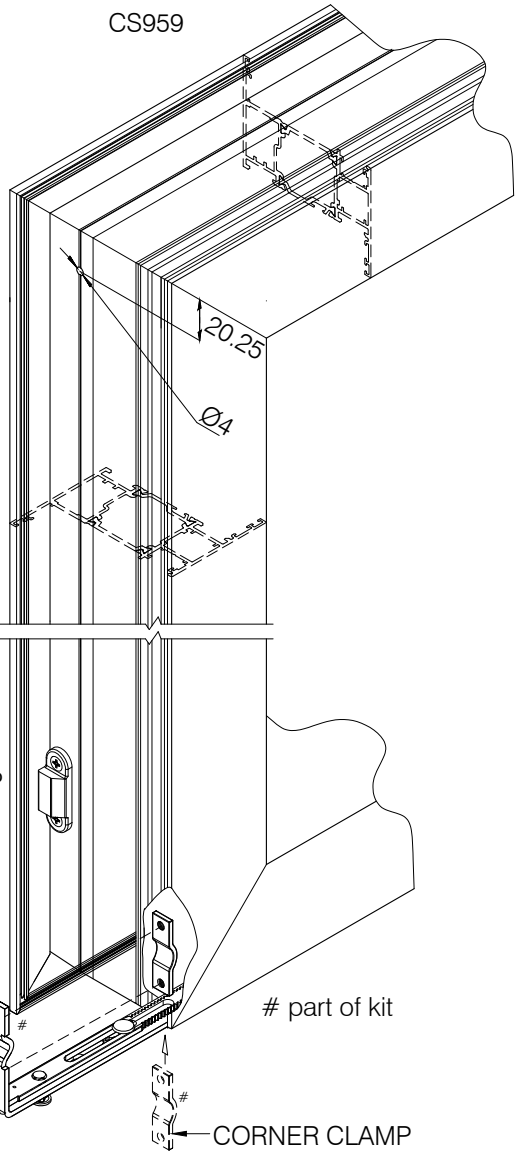
SHEET No. **3.38**

SUB TITLE **CASEMENT WINDOWS**
EXTENSION ROD, RAMP & HINGE ASSEMBLY

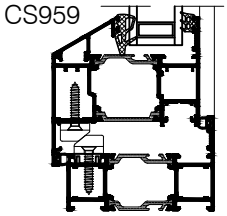
FRICTION HINGE FIXING TO OUTER FRAME

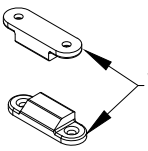


FRICTION HINGE FIXING TO SASH FRAME

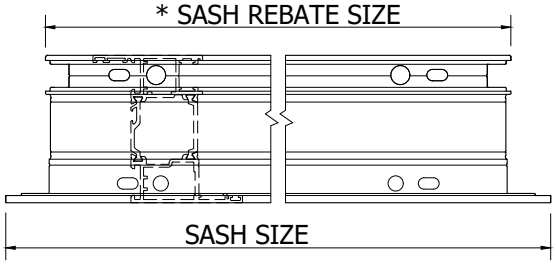


RAMP DETAILS





LOCKING KIT	* SASH REBATE SIZE
LK943XKIT	270 - 361 mm
LK944XKIT	362 - 520mm
LK945XKIT	521 - 820 mm
LK946XKIT	821 - 1120 mm
LK947XKIT	1121 - 1420mm



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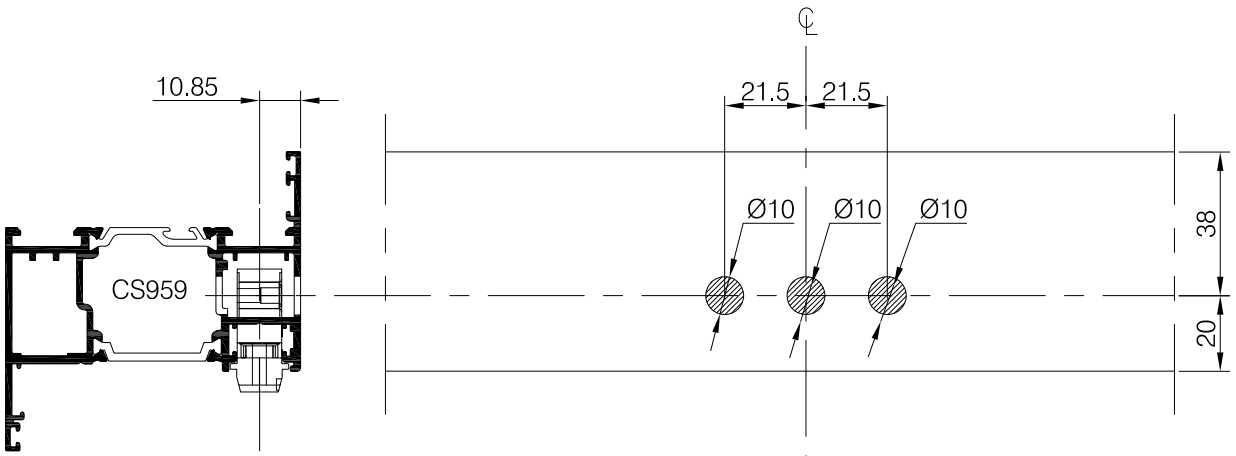
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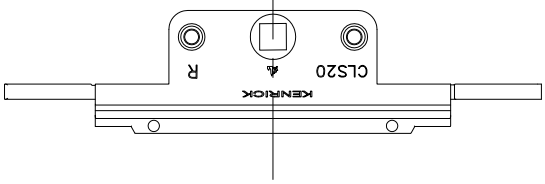
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TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

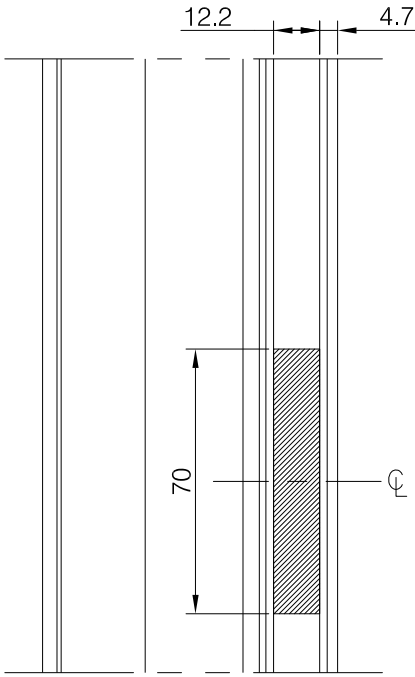
SHEET No.
3.39

SUB TITLE
CASEMENT WINDOWS
GEARBOX & HANDLE PREPARATIONS

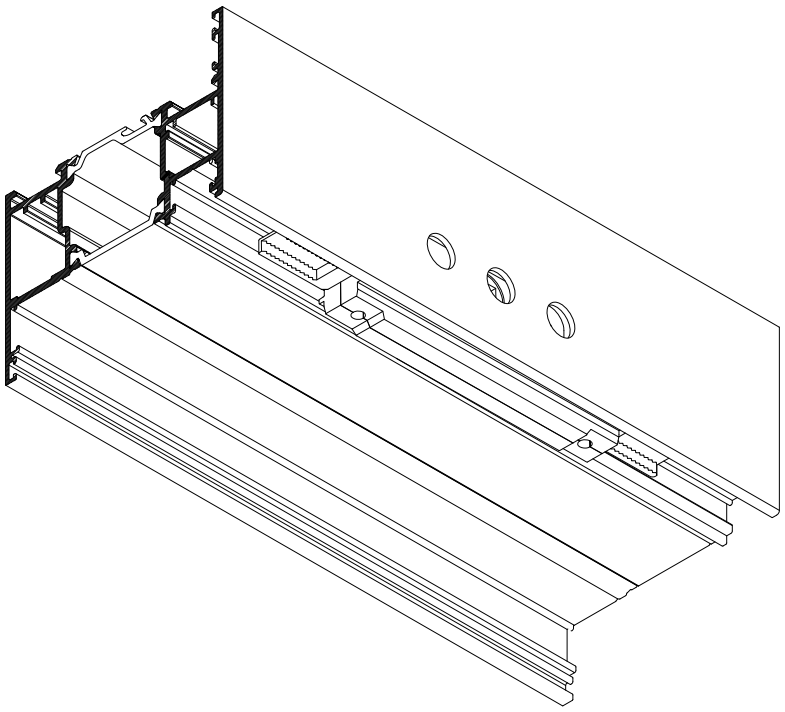




HANDLE PREP DETAIL



GEAR BOX PREP DETAIL



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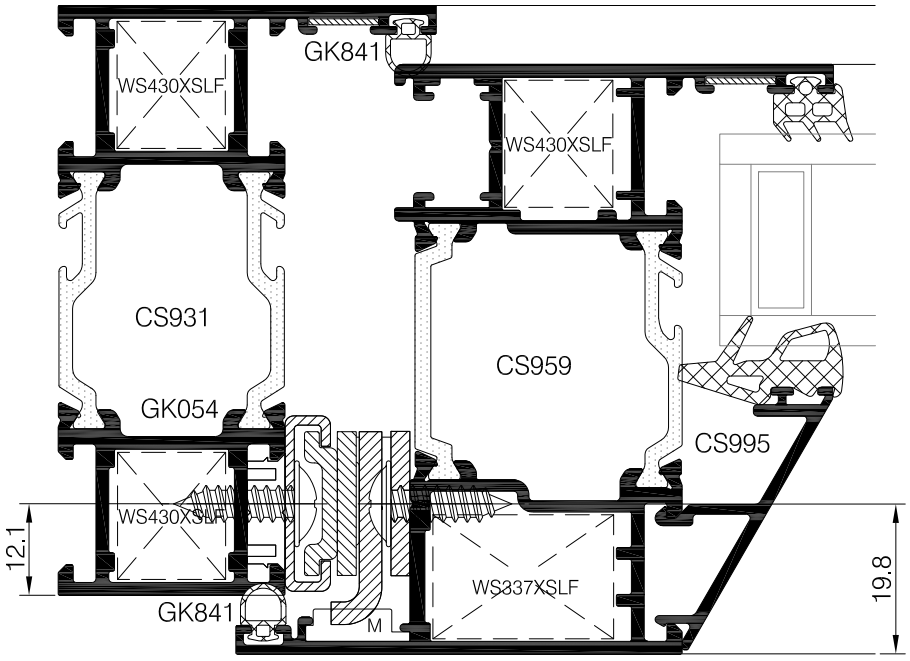
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comar 9P.i

TITLE **PERFORMANCE FRAMING SYSTEM**
FRAMING, WINDOWS & DOORS

SHEET No. **3.40**

SUB TITLE **CASEMENT WINDOW**
HINGE DETAIL FOR CS959



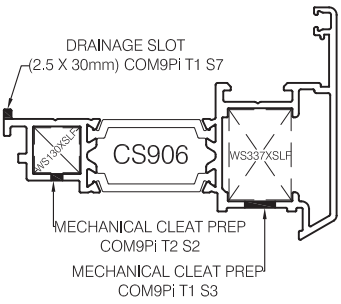
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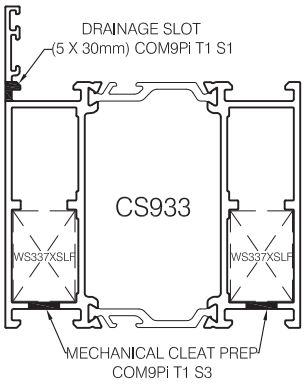
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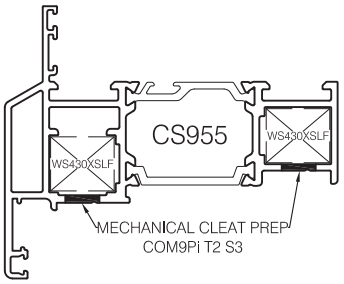
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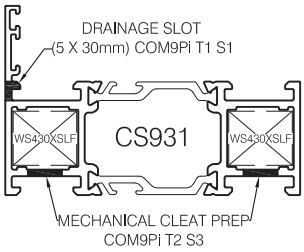
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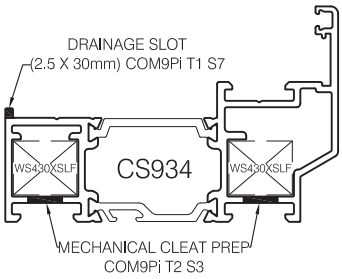
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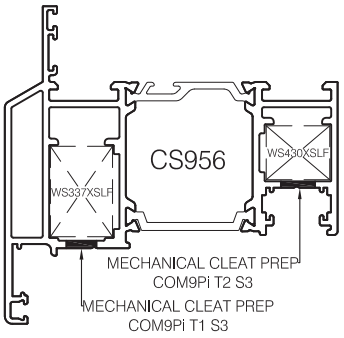


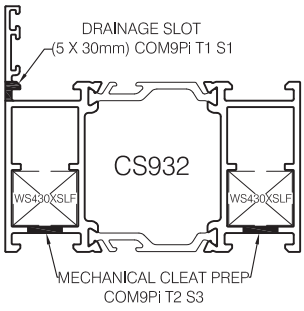


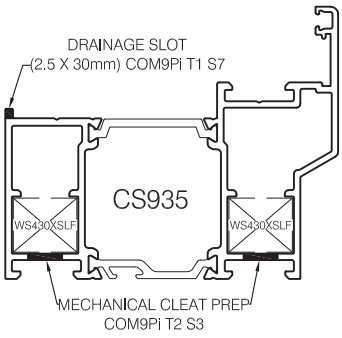


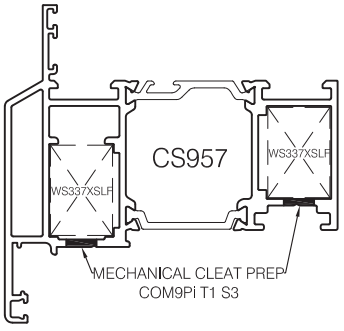


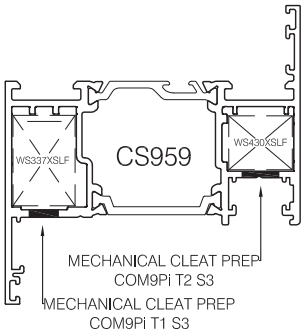












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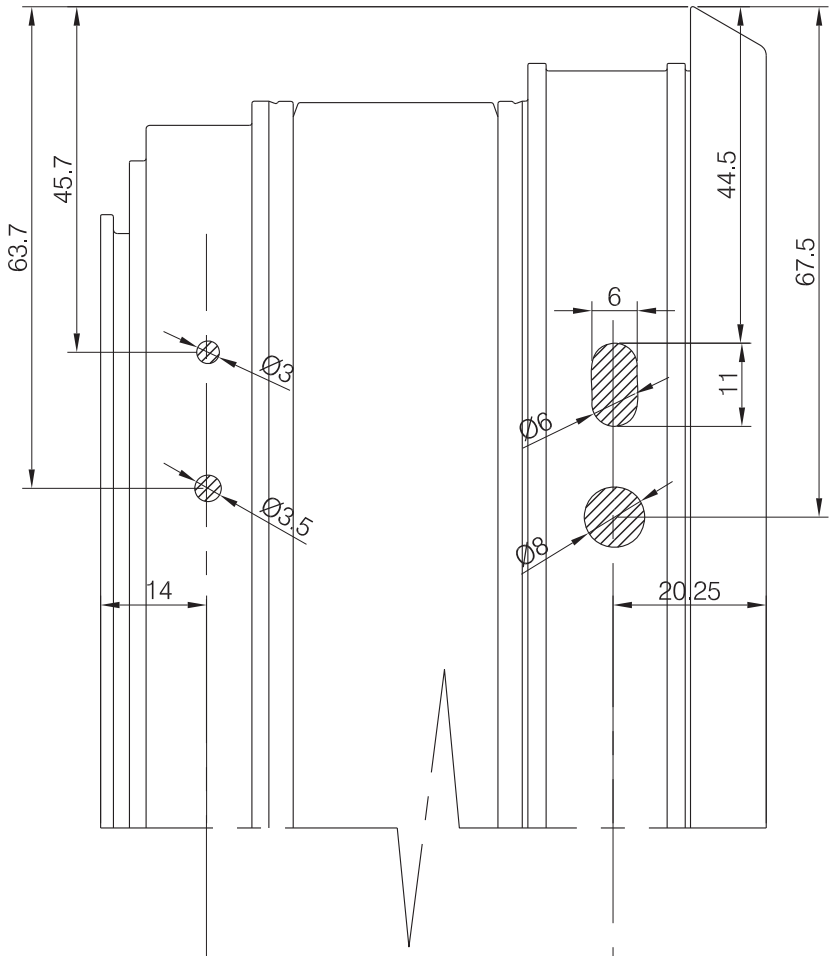
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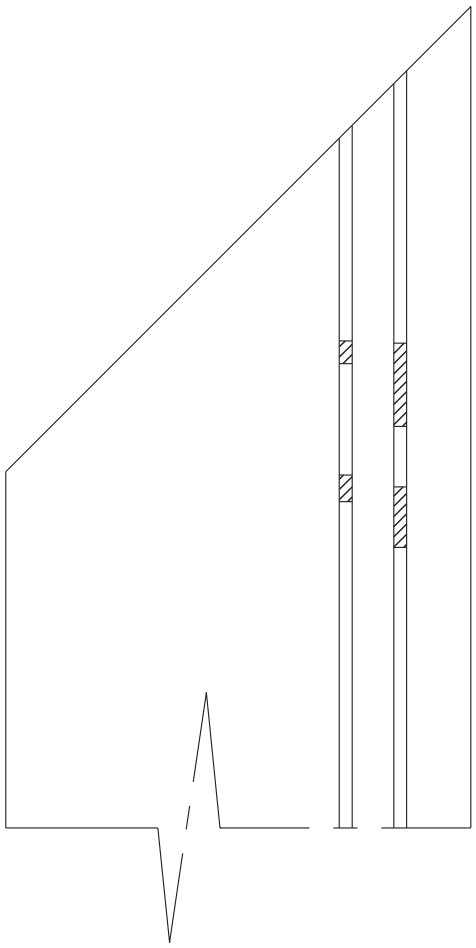
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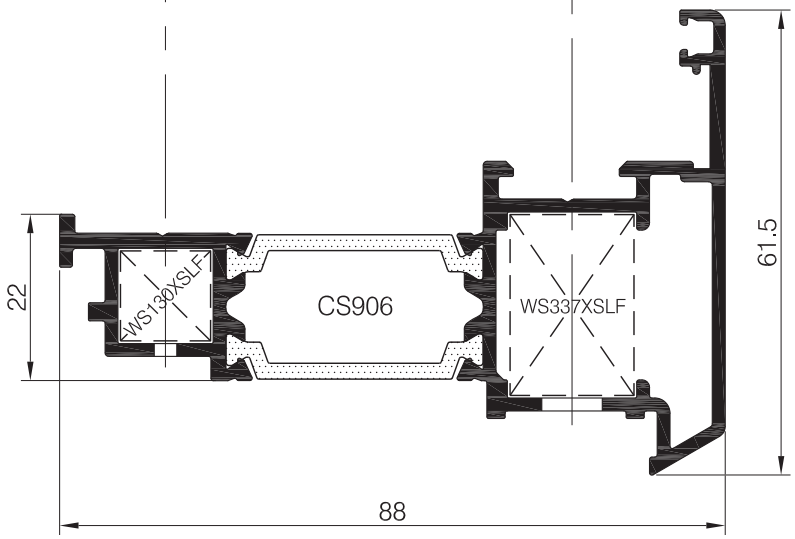
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PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
4.02

SUB TITLE
CASEMENT WINDOWS
PUNCH TOOLING - CLEATS PREPARATION CS906







CS906
COM9Pi T1 S3
COM9Pi T2 S2

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SCALE	1:1 @ A4
DATE	10-04-2010
DRAWN	OP / CAD
DRG. No.	C9-Pi-PF-CW 4.02

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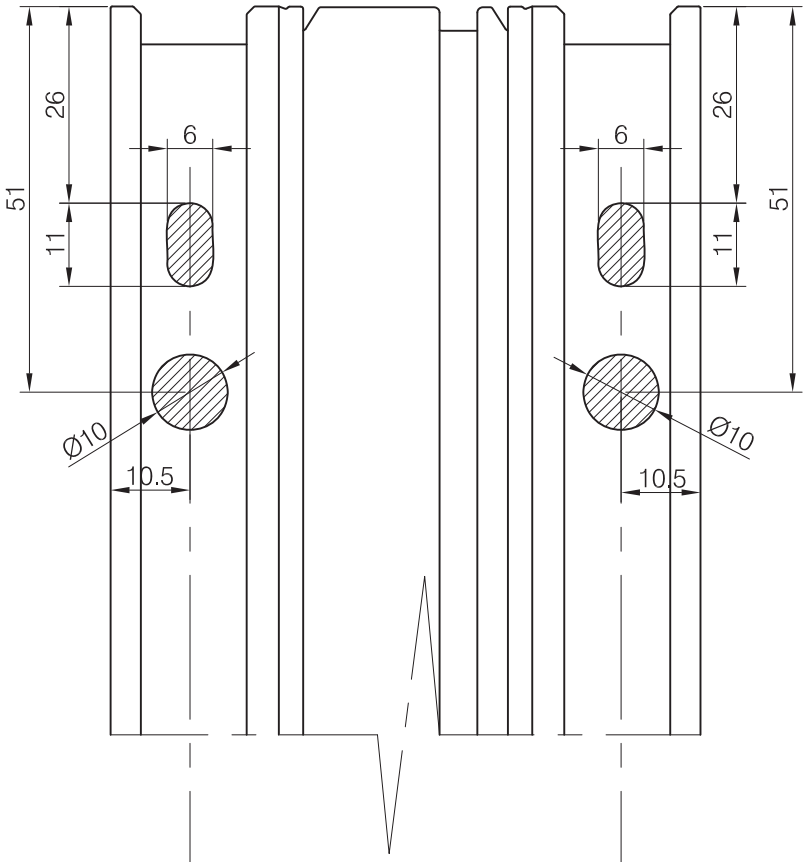
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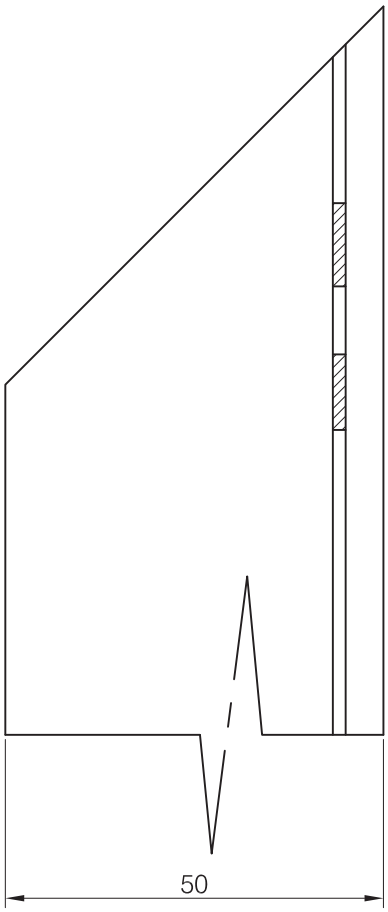
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FRAMING, WINDOWS, DOORS

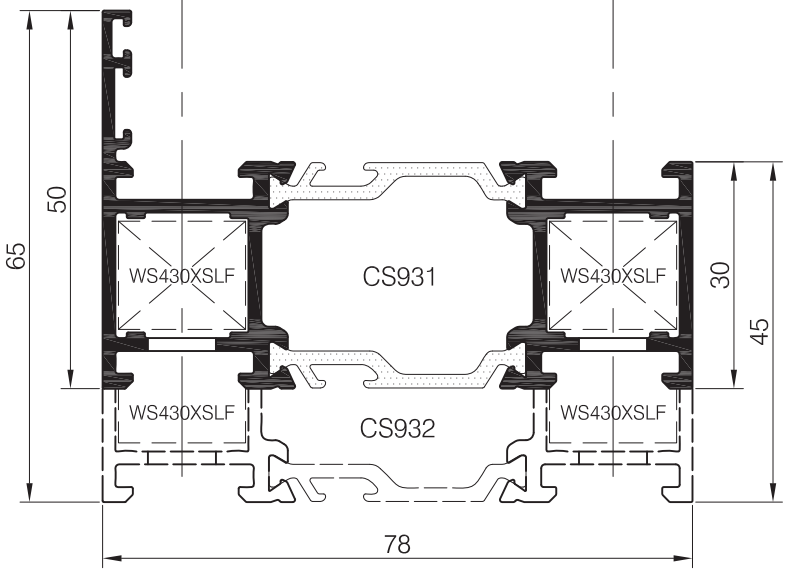
SHEET No. **4.03**

SUB TITLE

CASEMENT WINDOWS
PUNCH TOOLING - CLEATS PREPARATION CS931 / CS932







CS931 / CS932
COM9Pi T2 S3

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SCALE	1:1 @ A4
DATE	10–04–2010
DRAWN	OP / CAD
DRG. No.	C9 Pi–PF–CW 4.03

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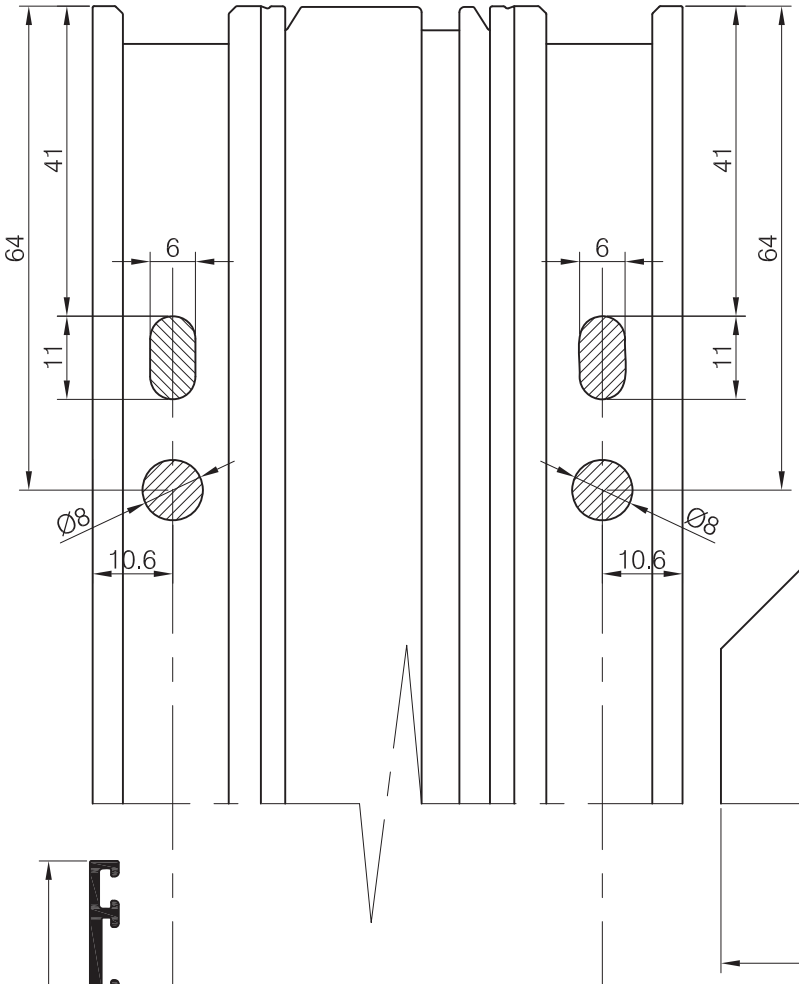
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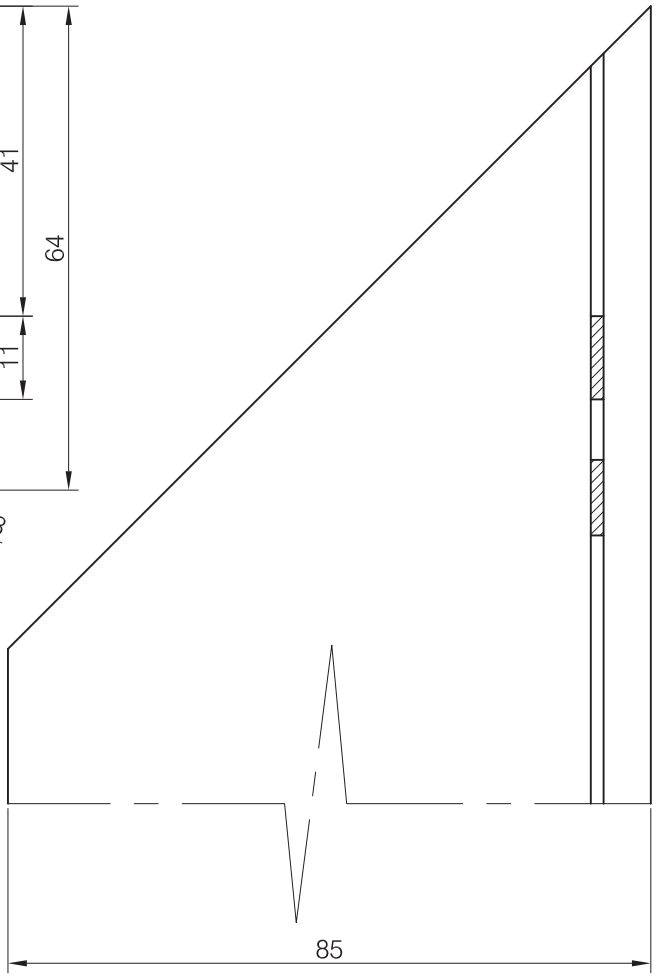
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

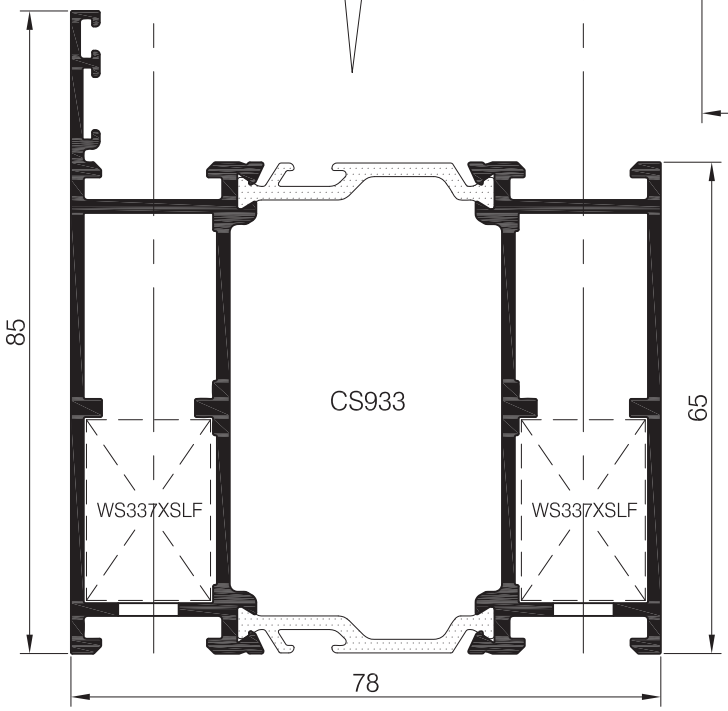
SHEET No. **4.04**

SUB TITLE

CASEMENT WINDOWS
PUNCH TOOLING - CLEATS PREPARATION CS933







CS933
COM9Pi T1 S3

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DATE	10–04–2010
DRAWN	OP / CAD
DRG. No.	C9 Pi–PF–CW 4.04

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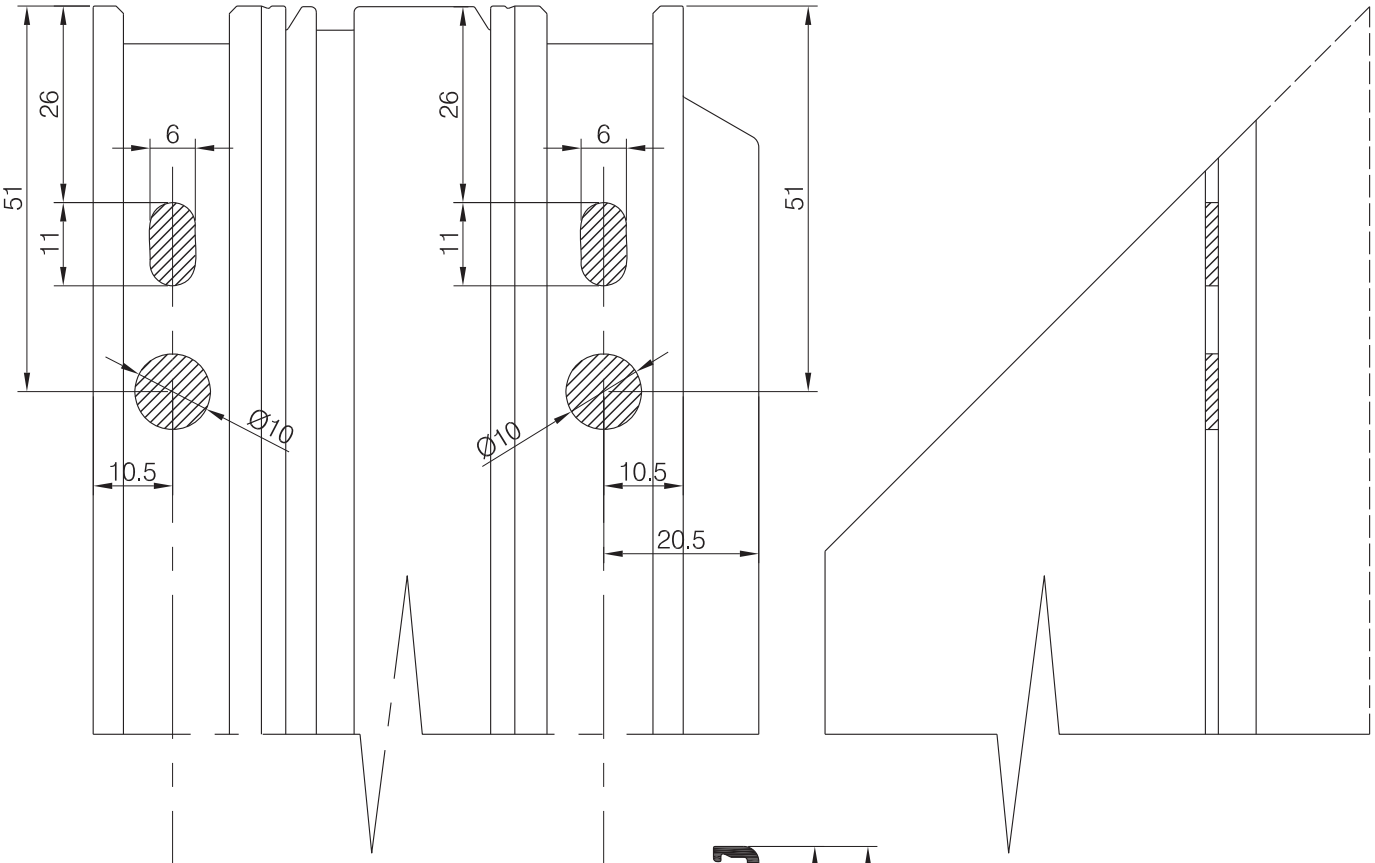
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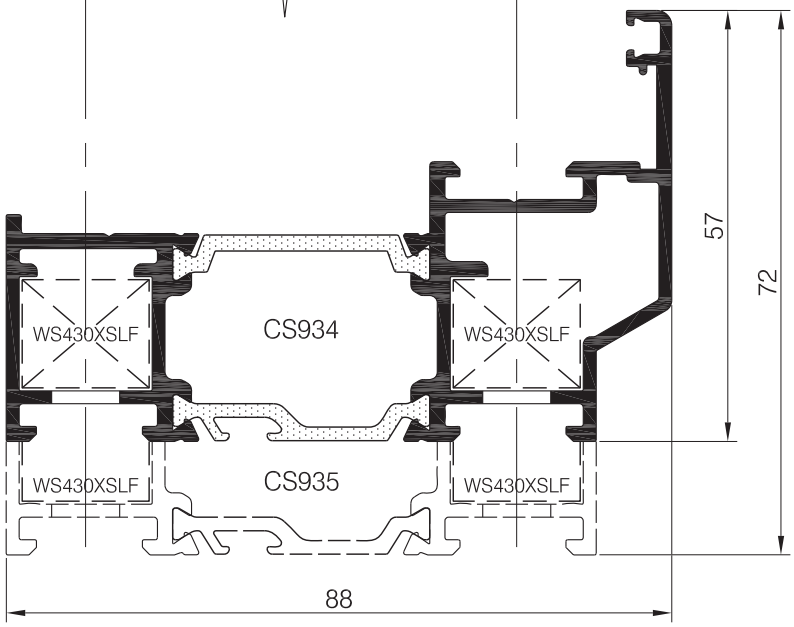
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No. **4.05**

SUB TITLE

CASEMENT WINDOWS
PUNCH TOOLING - CLEATS PREPARATION CS934 / CS935





CS934 / CS935
COM9Pi T2 S3

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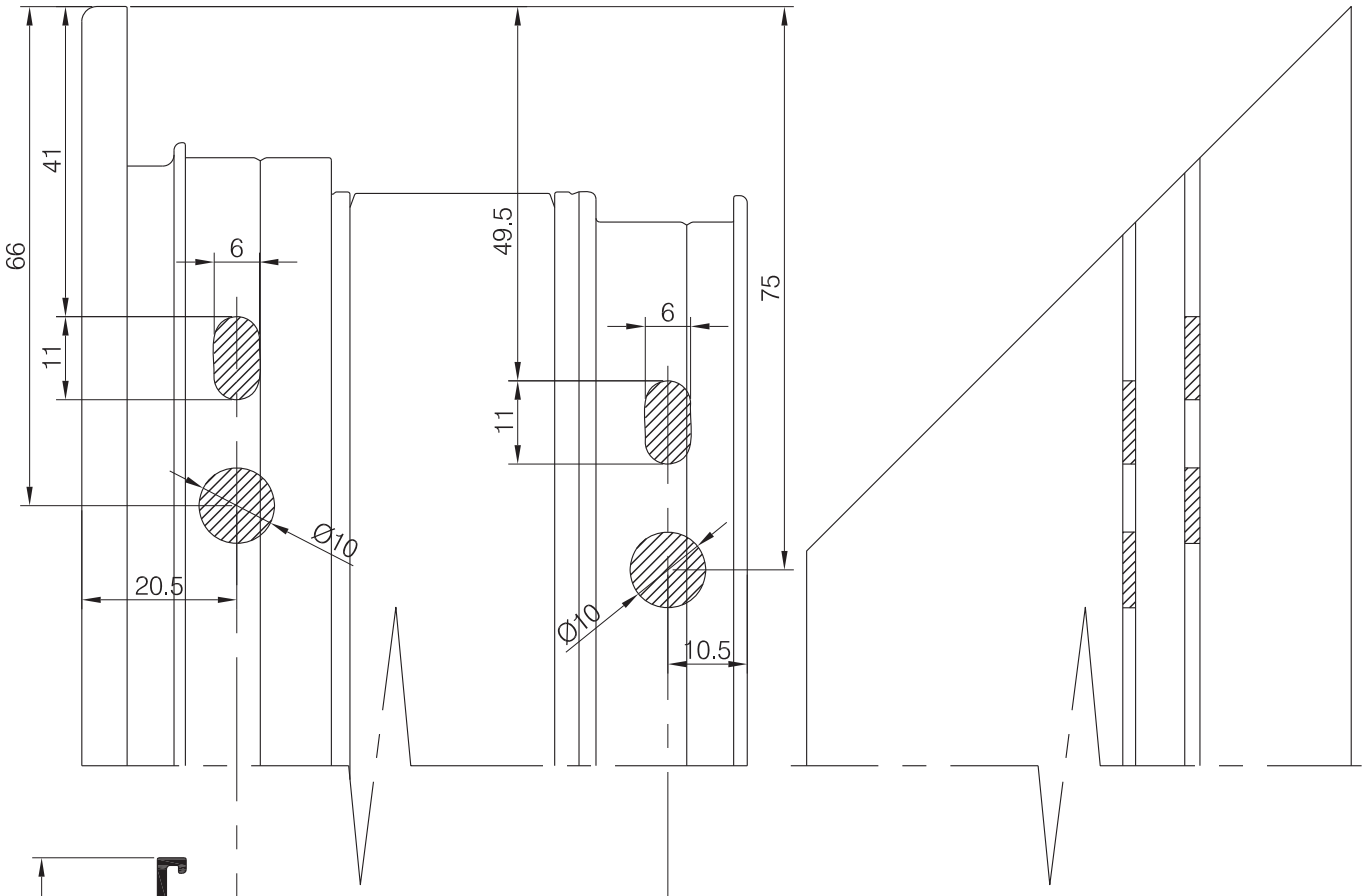
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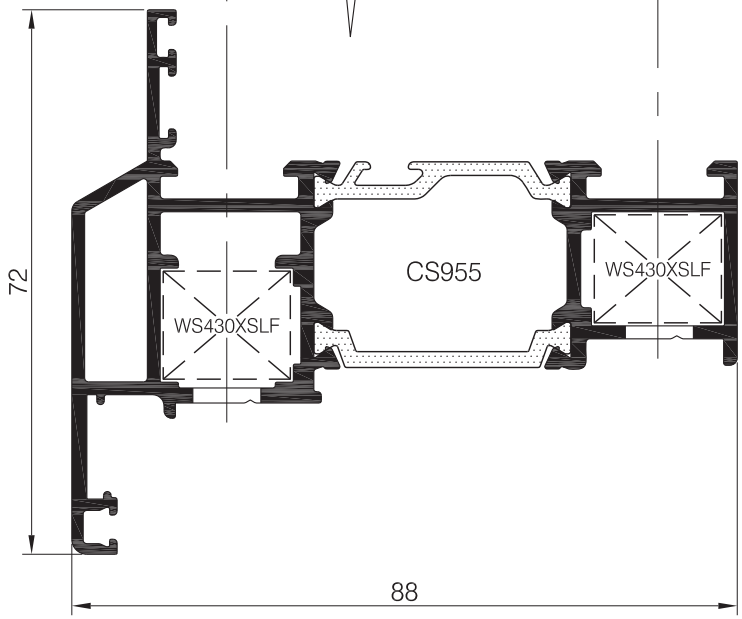
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No. **4.06**

SUB TITLE

CASEMENT WINDOWS
PUNCH TOOLING - CLEATS PREPARATION CS955





CS955
COM9Pi T2 S3

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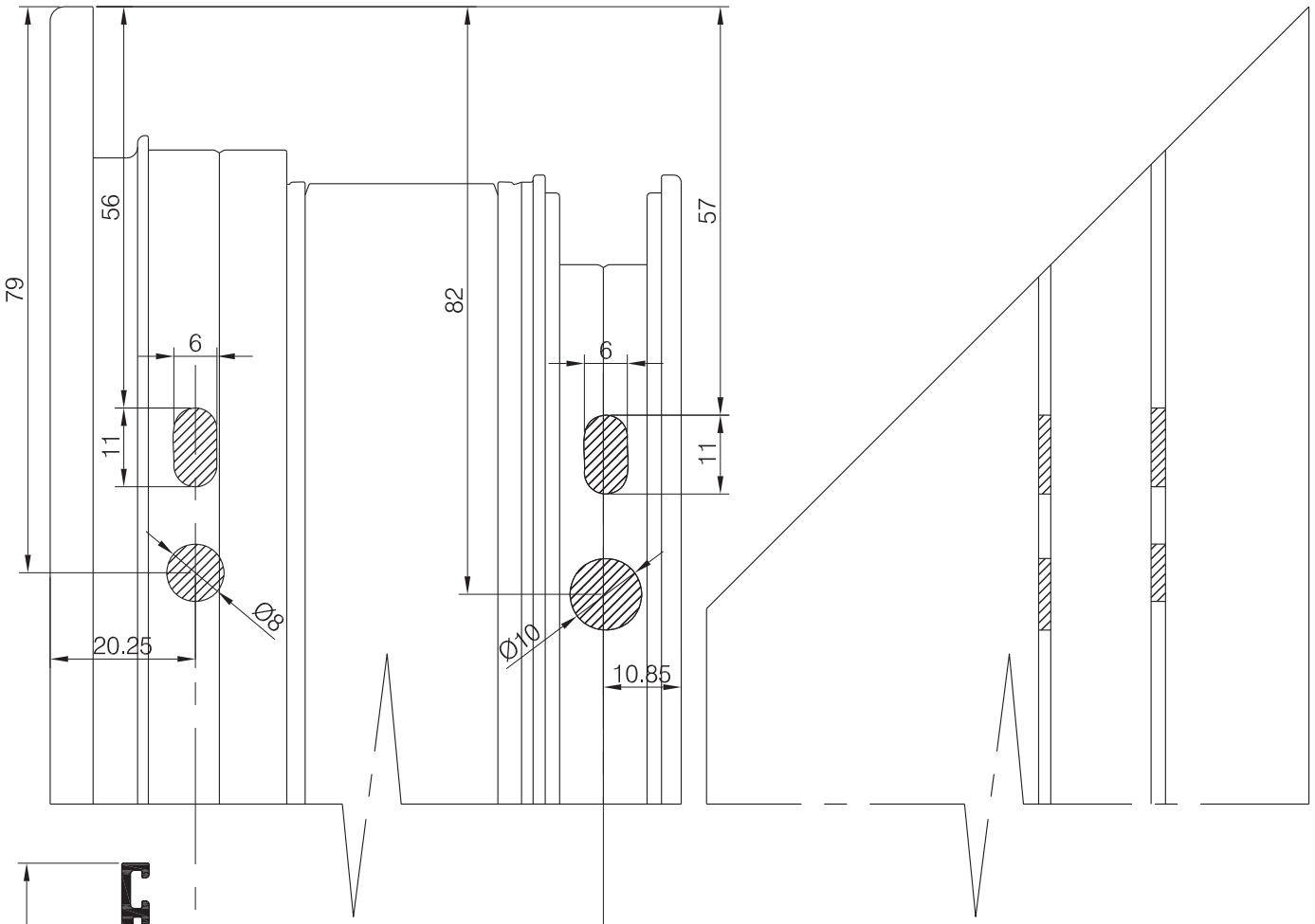
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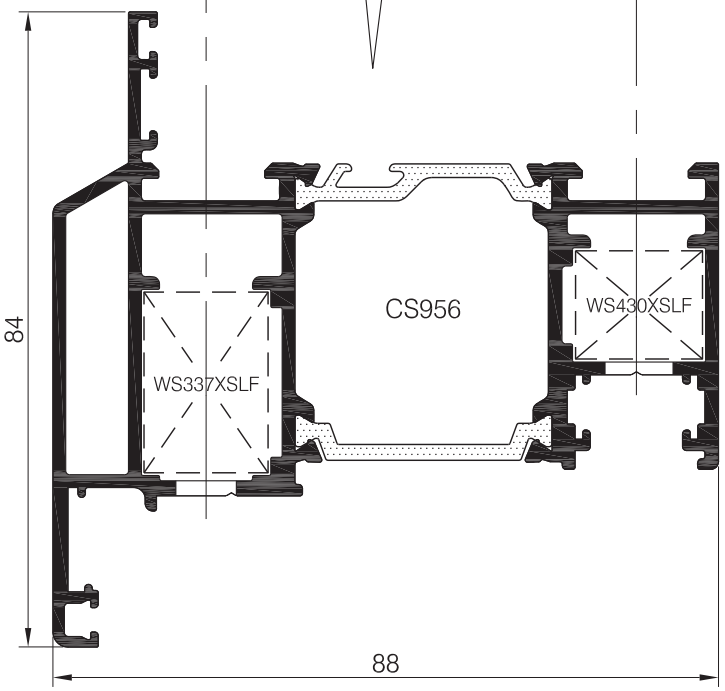
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No. 4.07

SUB TITLE

CASEMENT WINDOWS
PUNCH TOOLING - CLEATS PREPARATION CS956





CS956
COM9Pi T1 S3
COM9Pi T2 S3

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comar 9Pi

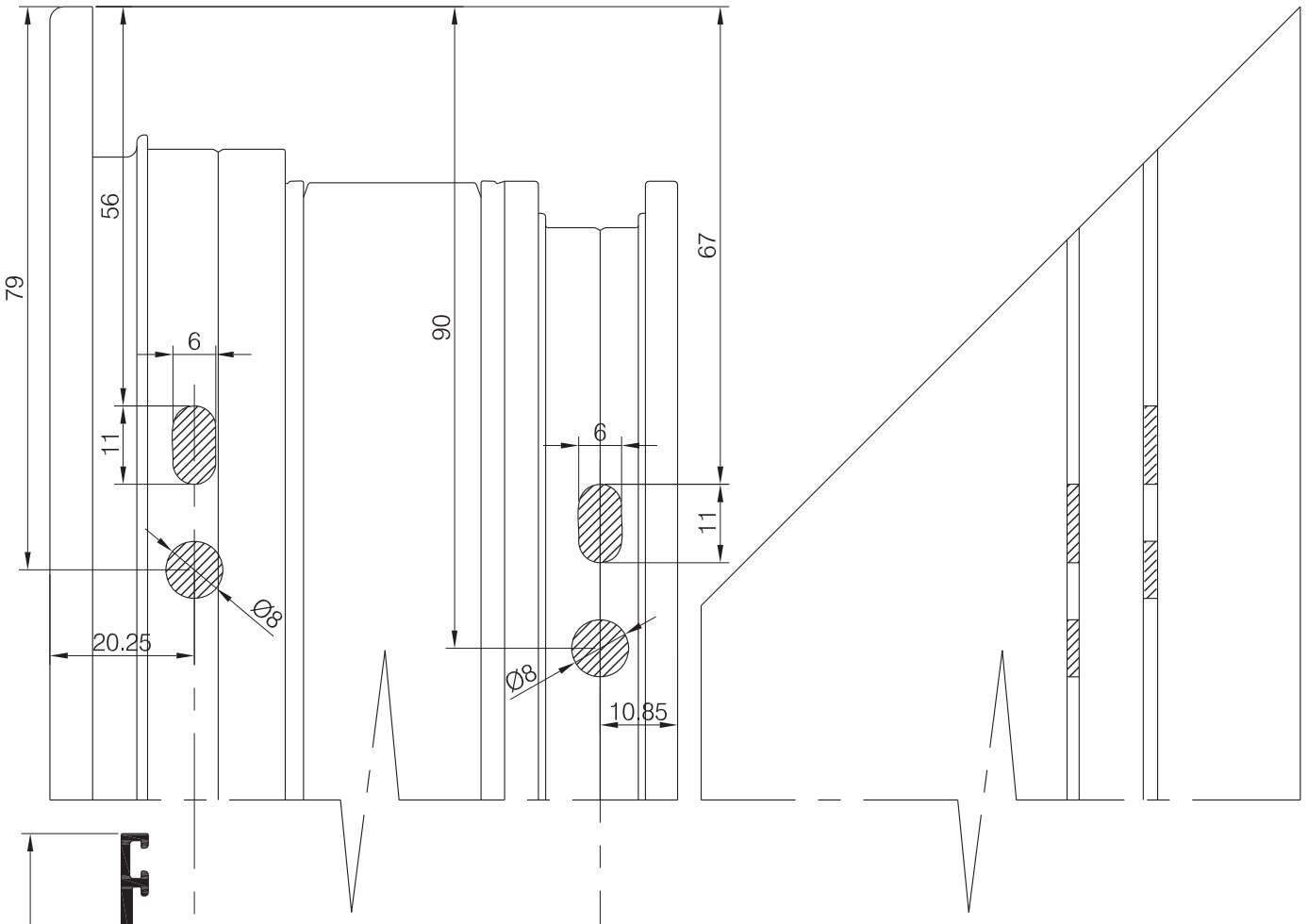
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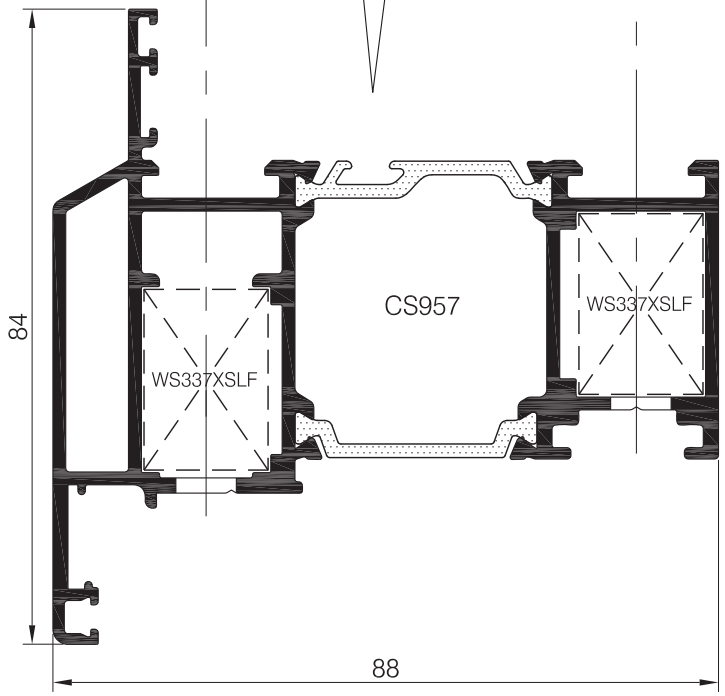
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No. **4.08**

SUB TITLE

CASEMENT WINDOWS
PUNCH TOOLING - CLEATS PREPARATION CS957





CS957
COM9Pi T1 S3

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DATE	10-04-2010
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comar 9Pi

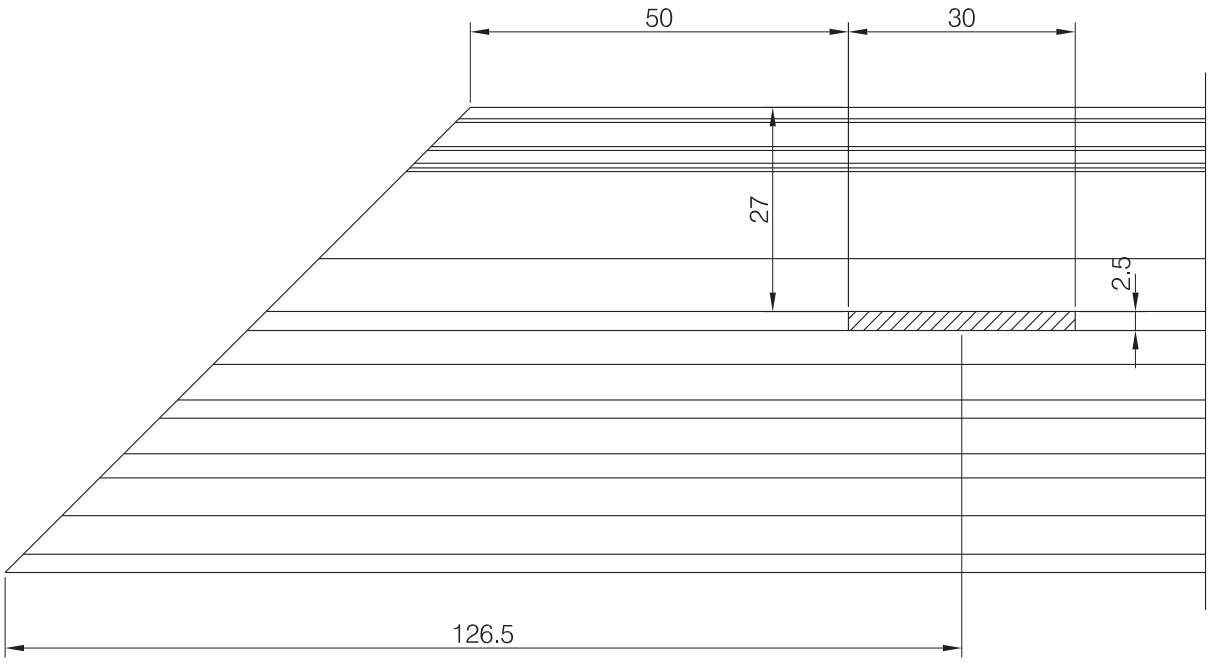
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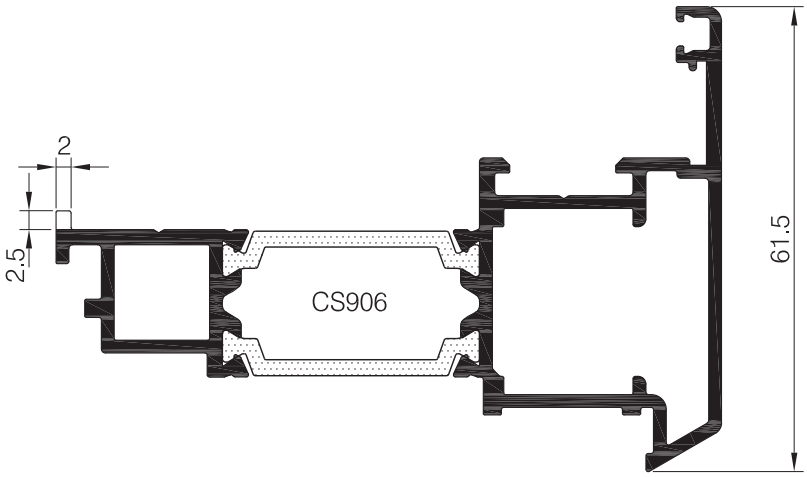
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No. **4.09**

SUB TITLE

CASEMENT WINDOWS
PUNCH TOOLING - DRAINAGE PREPARATION CS906





CS906
COM9Pi T1 S7

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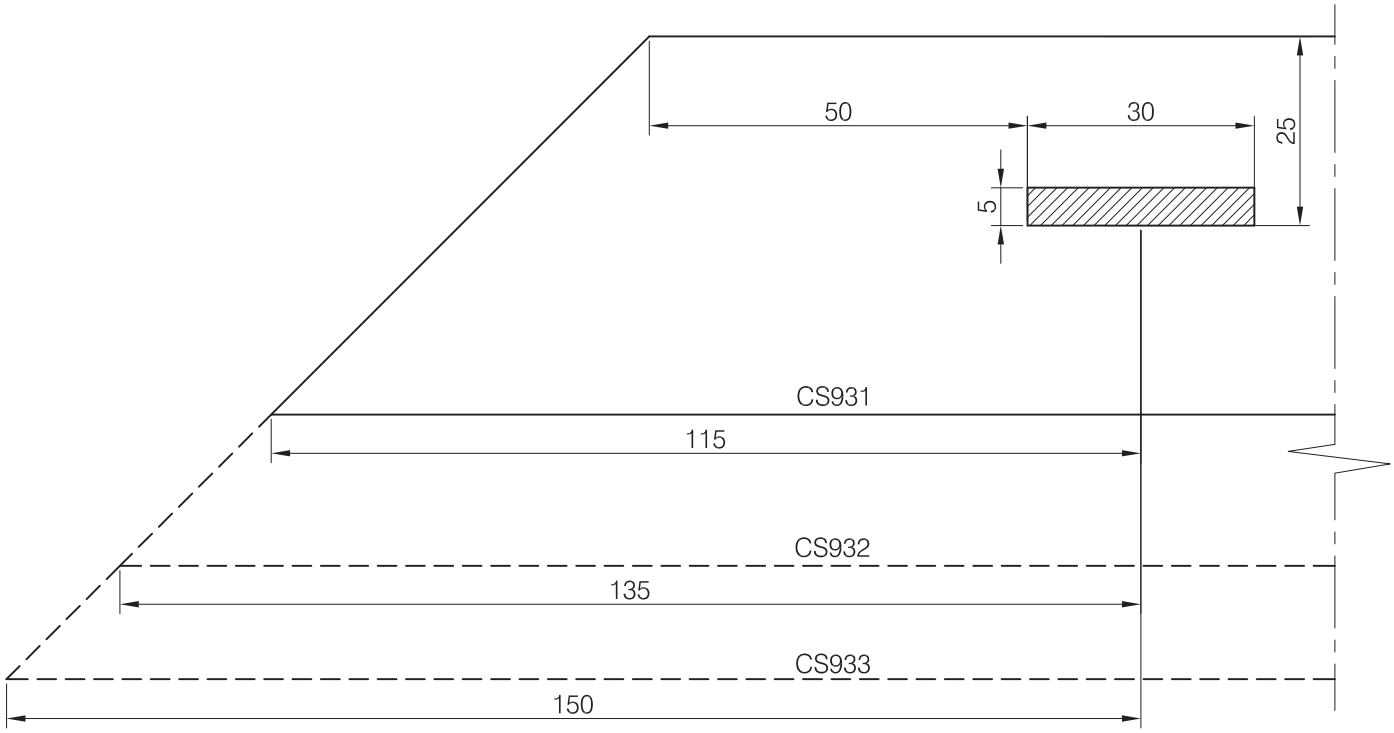
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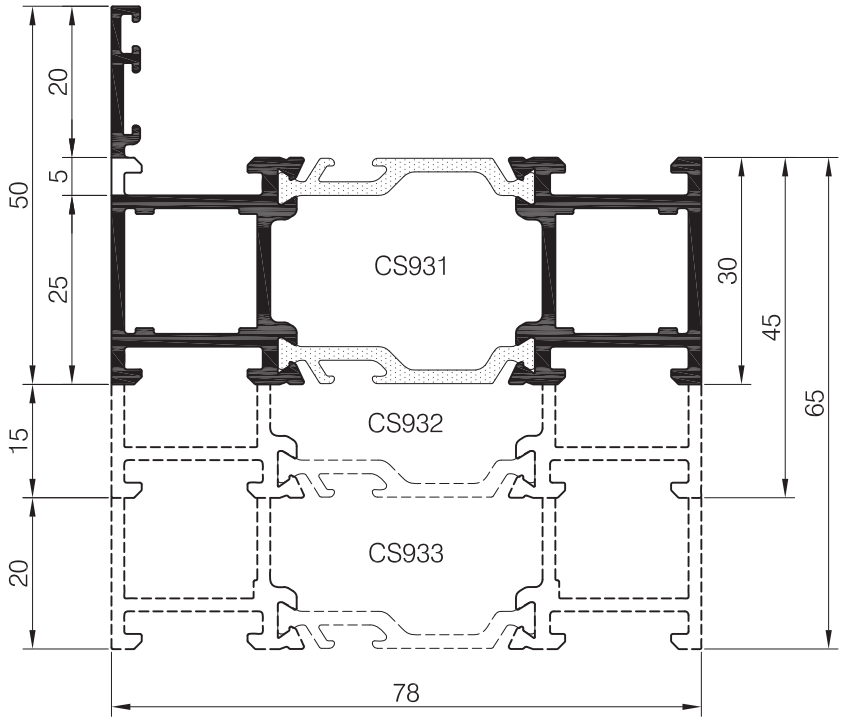
comar9Pi

TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
4.10

SUB TITLE
CASEMENT WINDOWS
PUNCH TOOLING - DRAINAGE PREPARATION CS931, CS932, CS933





CS931 / CS932 / CS933
COM9Pi T1 S1

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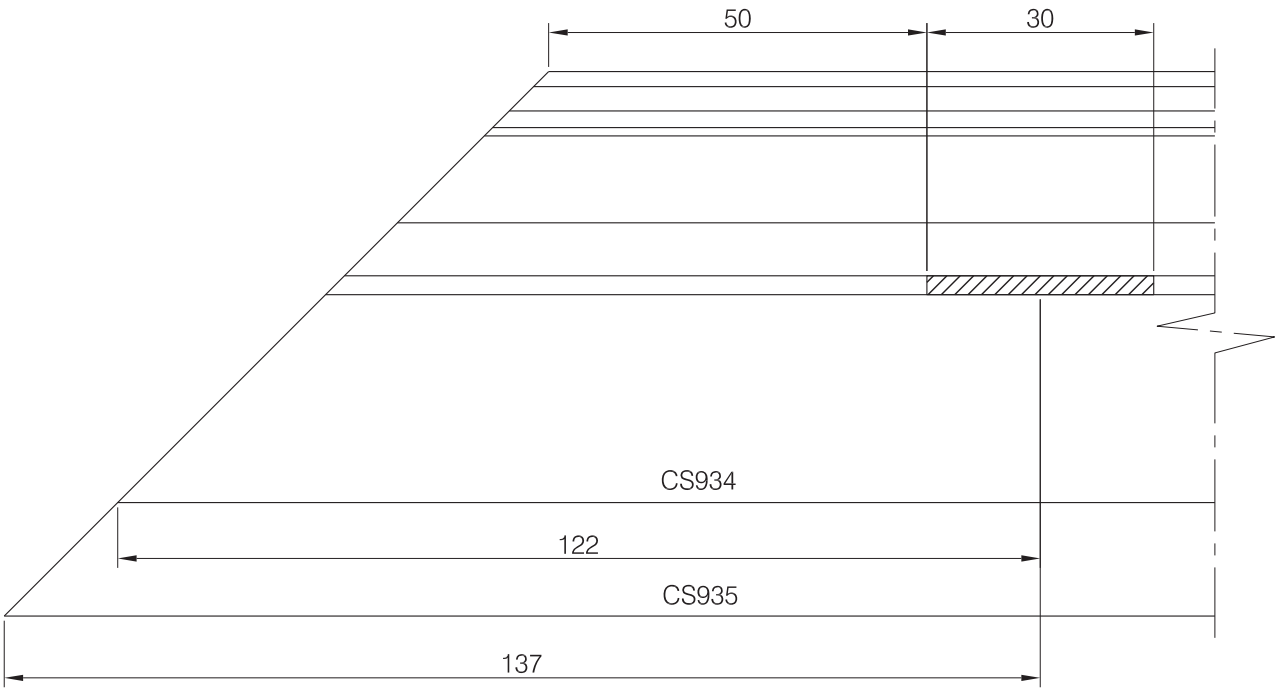
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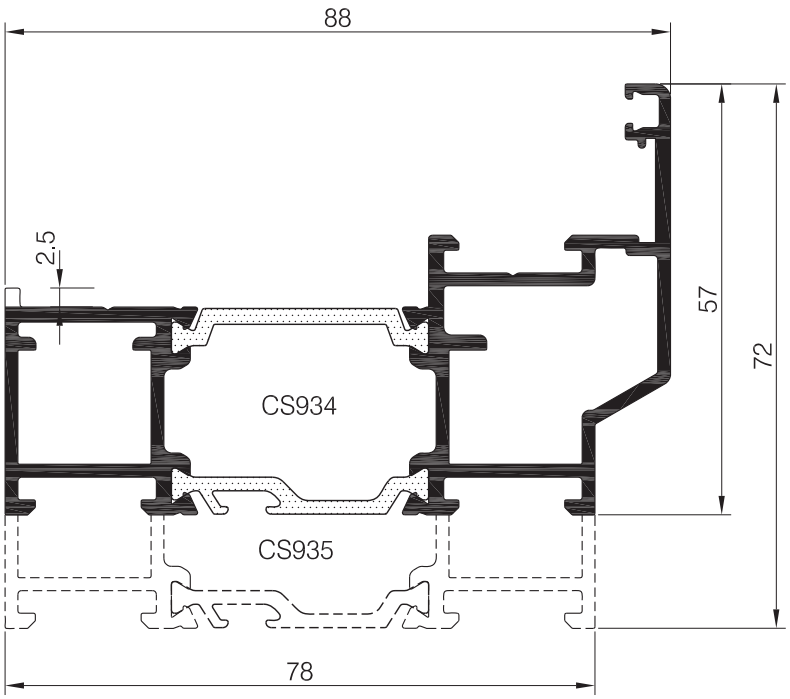
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TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
4.11

SUB TITLE
CASEMENT WINDOWS
PUNCH TOOLING - DRAINAGE PREPARATION CS934 / CS935





CS934 / CS935
COM9Pi T1 S7

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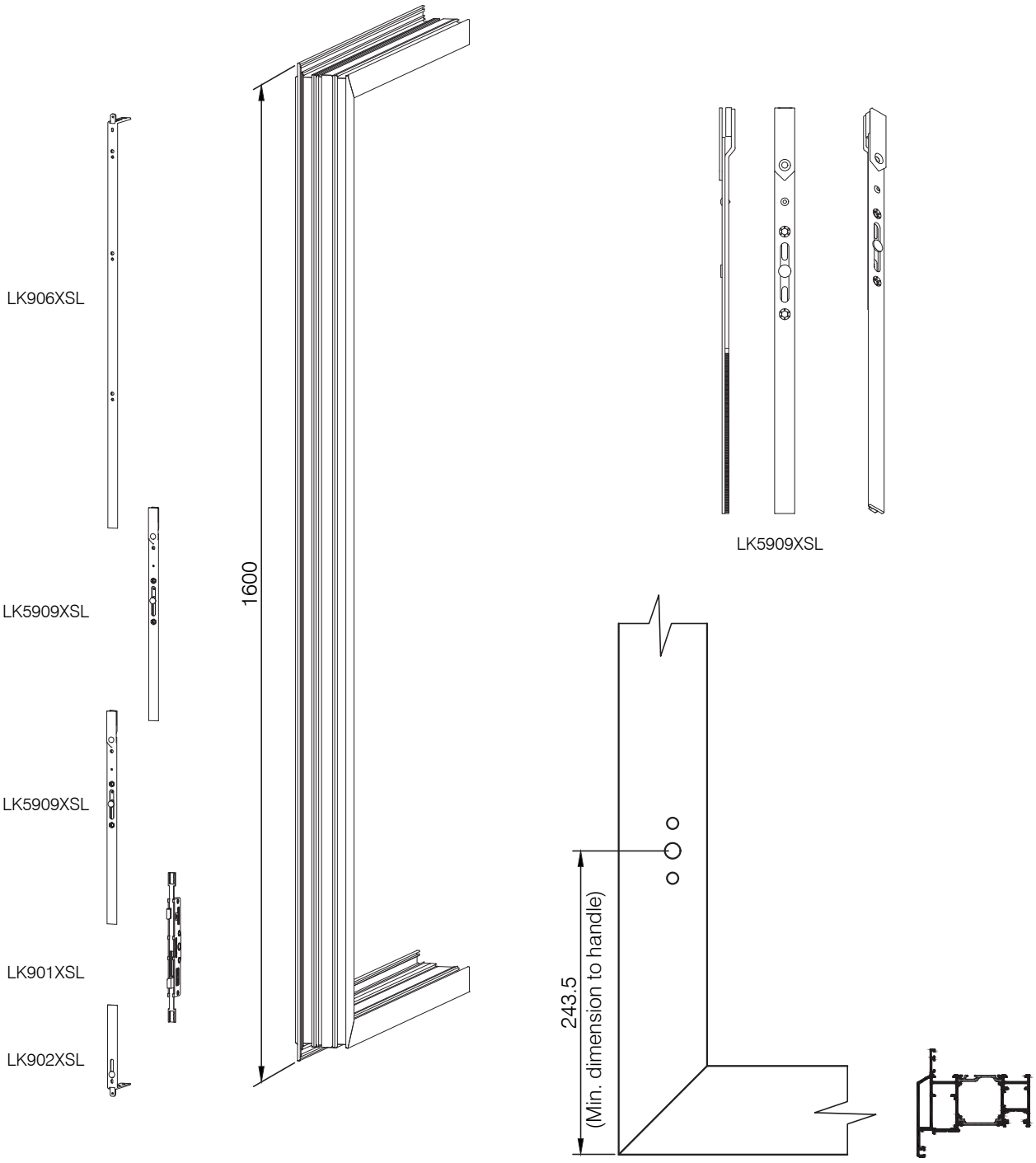
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comar 9Pi

TITLE **PERFORMANCE FRAMING SYSTEM**
FRAMING, WINDOWS & DOORS

SHEET No. **4.12**

SUB TITLE **CASEMENT WINDOW**
ASSEMBLY OF HARDWARE



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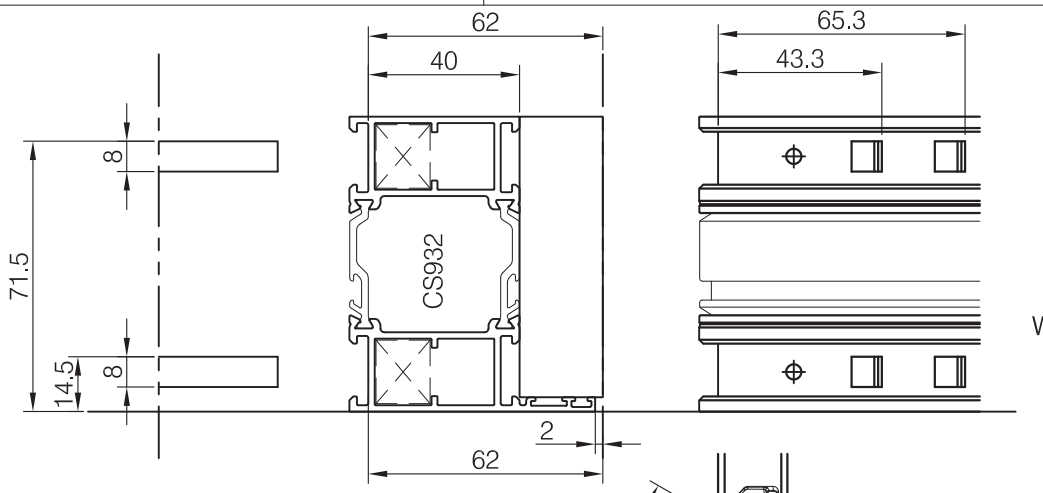
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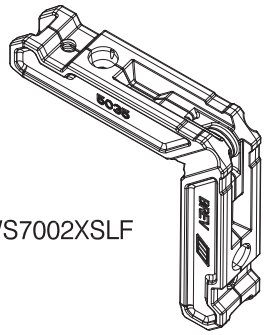
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No. **4.13**

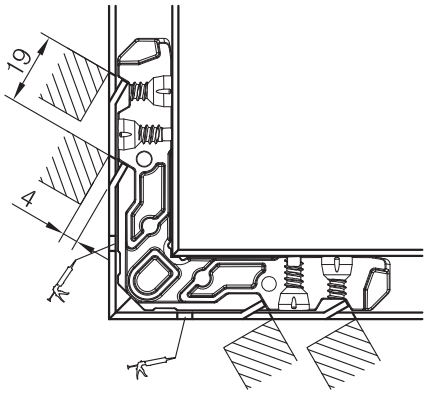
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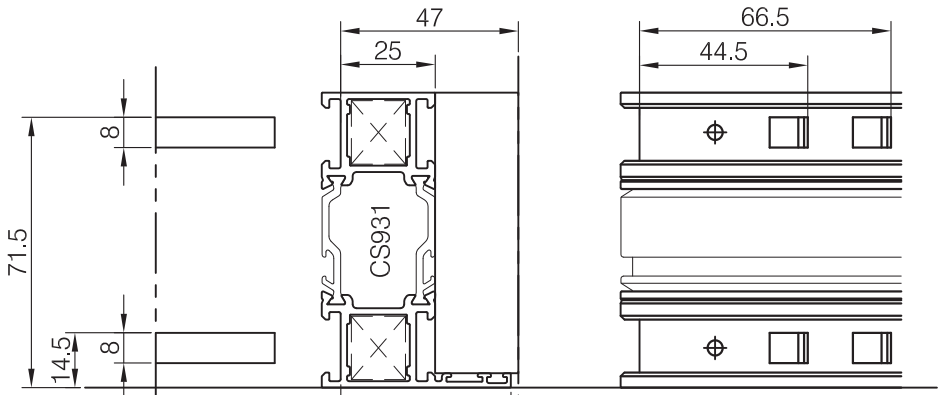
CASEMENT WINDOWS
CS931 / CS932 CRIMP CORNER

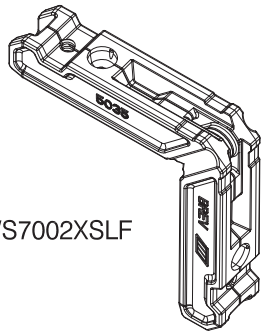




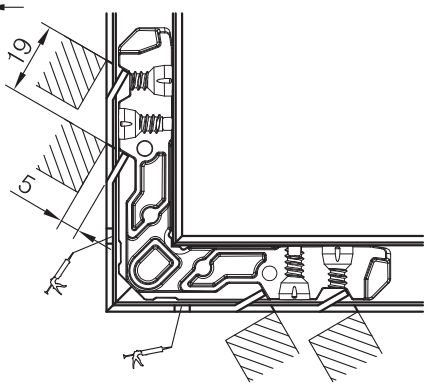
WS7002XSLF







WS7002XSLF



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DATE	27-02-2017
DRAWN	JPRG / CAD
DRG. No.	C9-Pi-CW 4.13 R0

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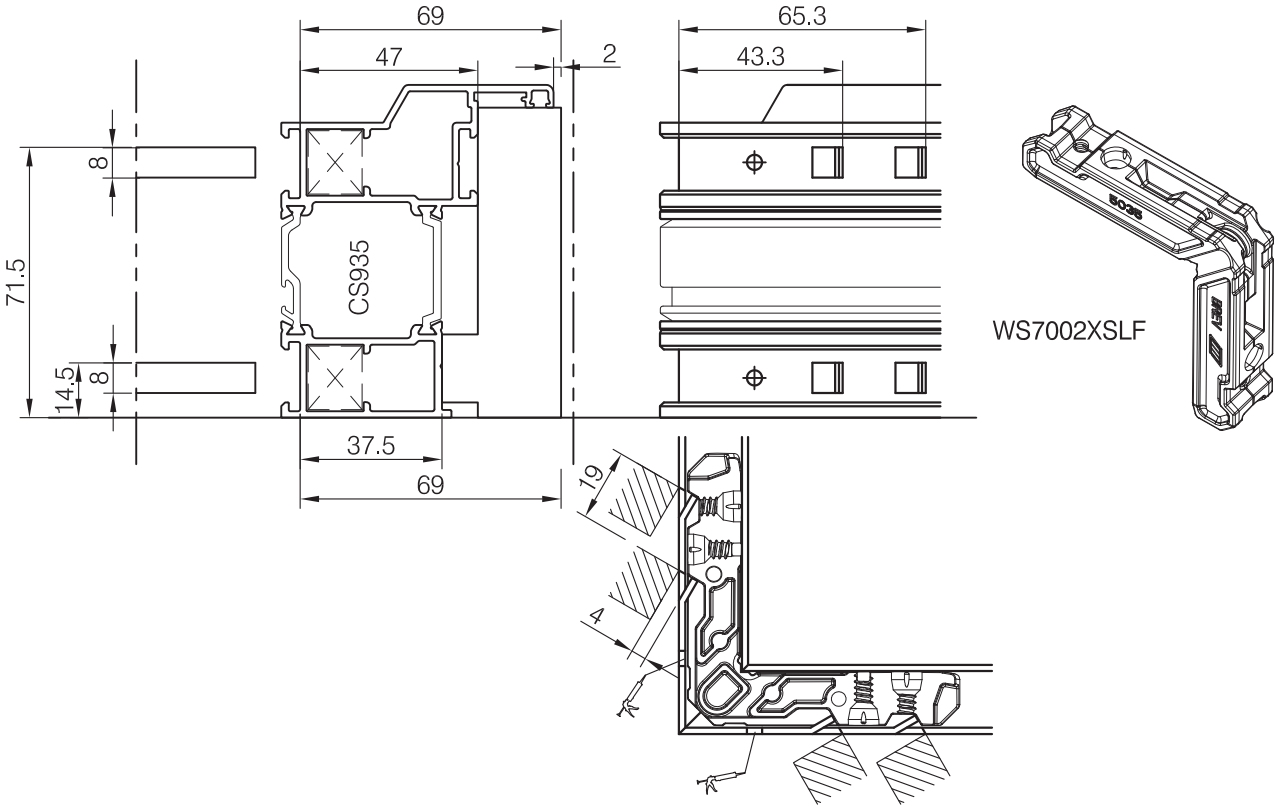
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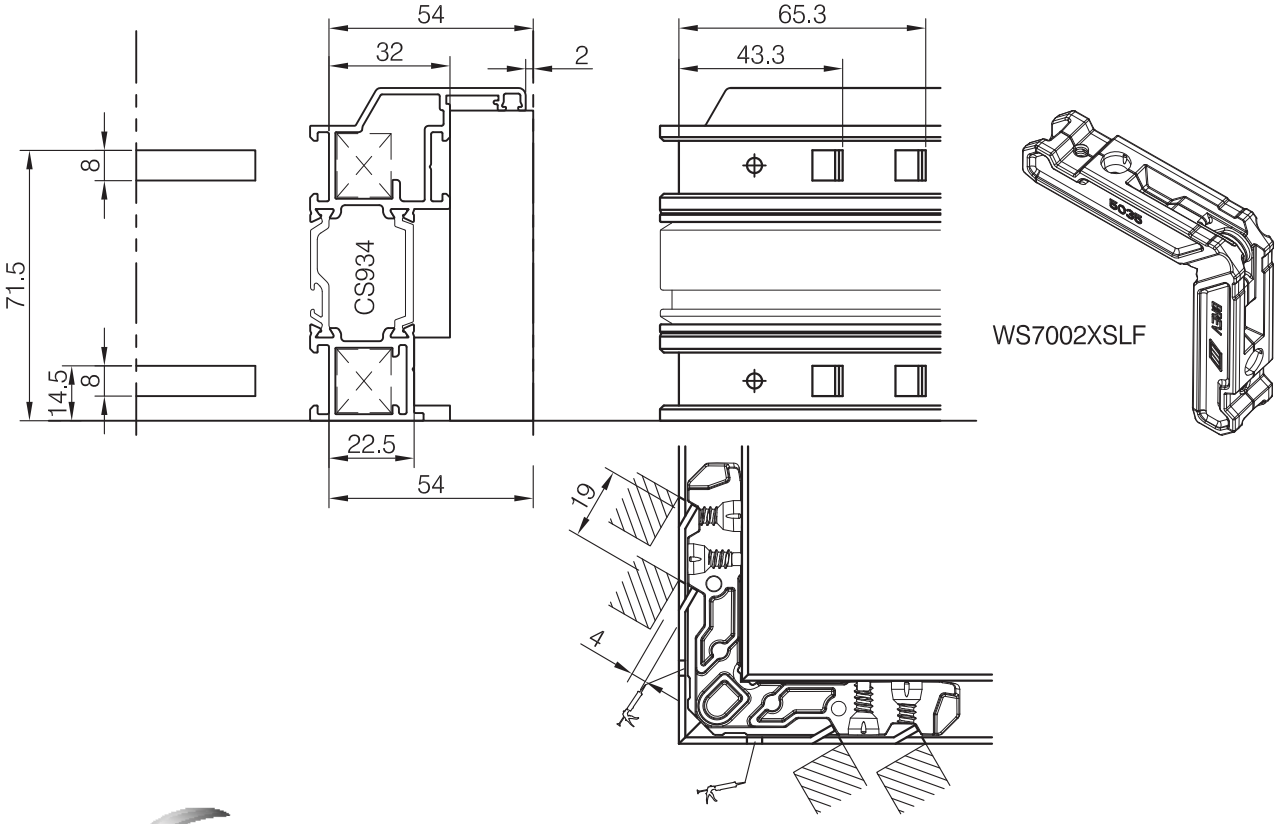
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No. **4.14**

SUB TITLE

CASEMENT WINDOWS
CS934 / CS935 CRIMP CORNER





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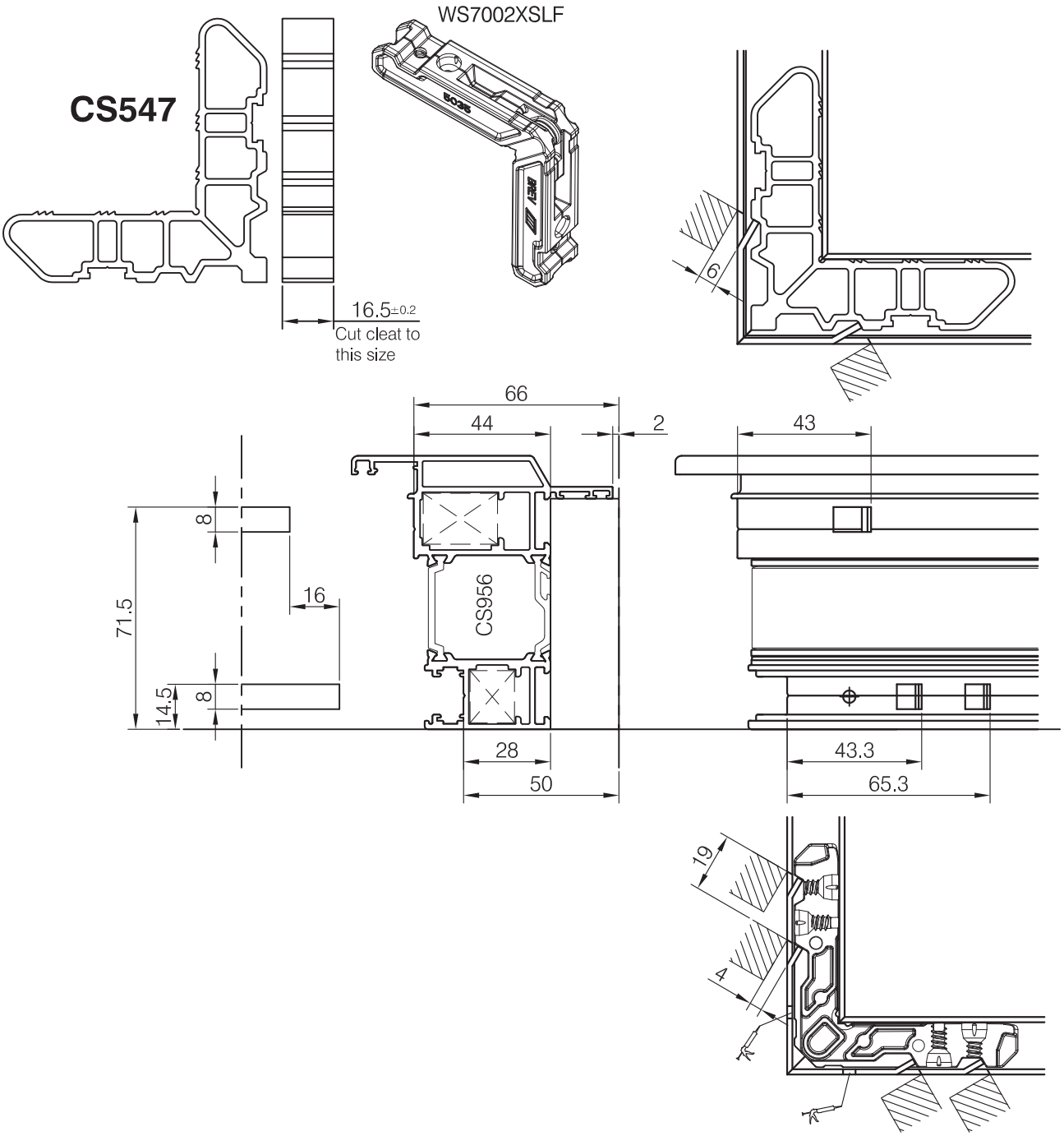
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DRG. No.	C9Pi-PF-CW 4.14 R0

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TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
4.15

SUB TITLE
CASEMENT WINDOWS
CS956 CRIMP CORNER



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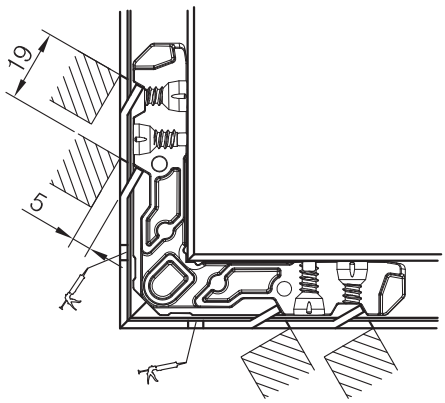
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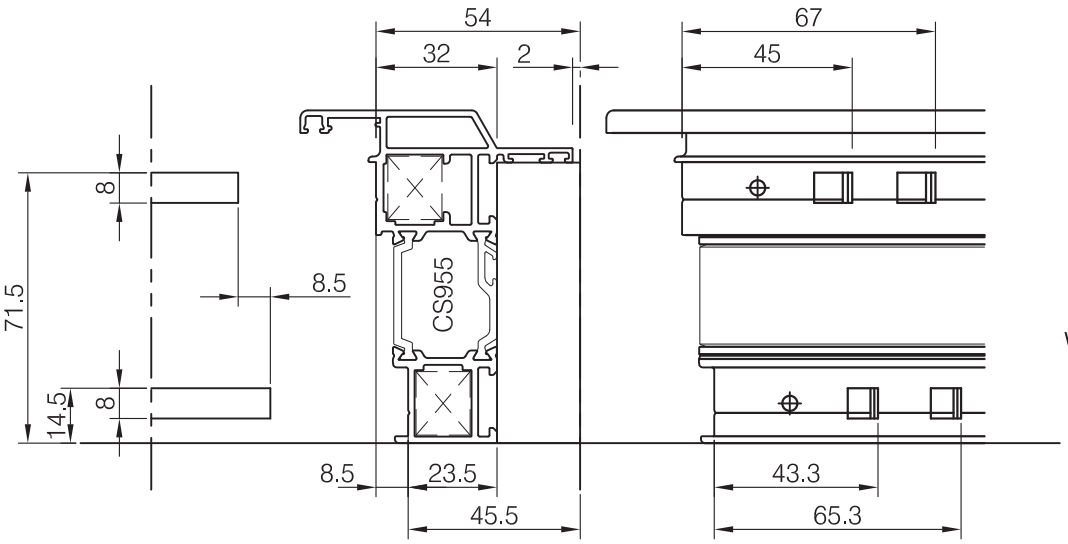
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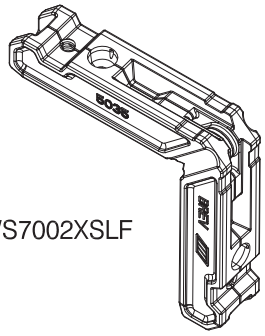
TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
4.16

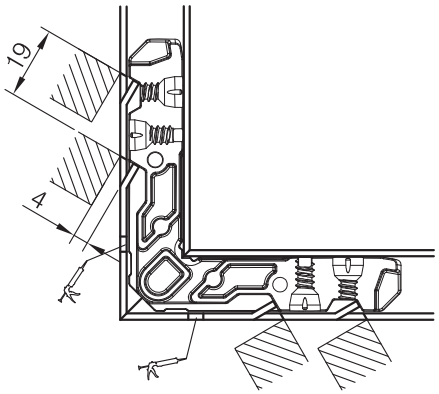
SUB TITLE
CASEMENT WINDOWS
CS955 CRIMP CORNER







WS7002XSLF



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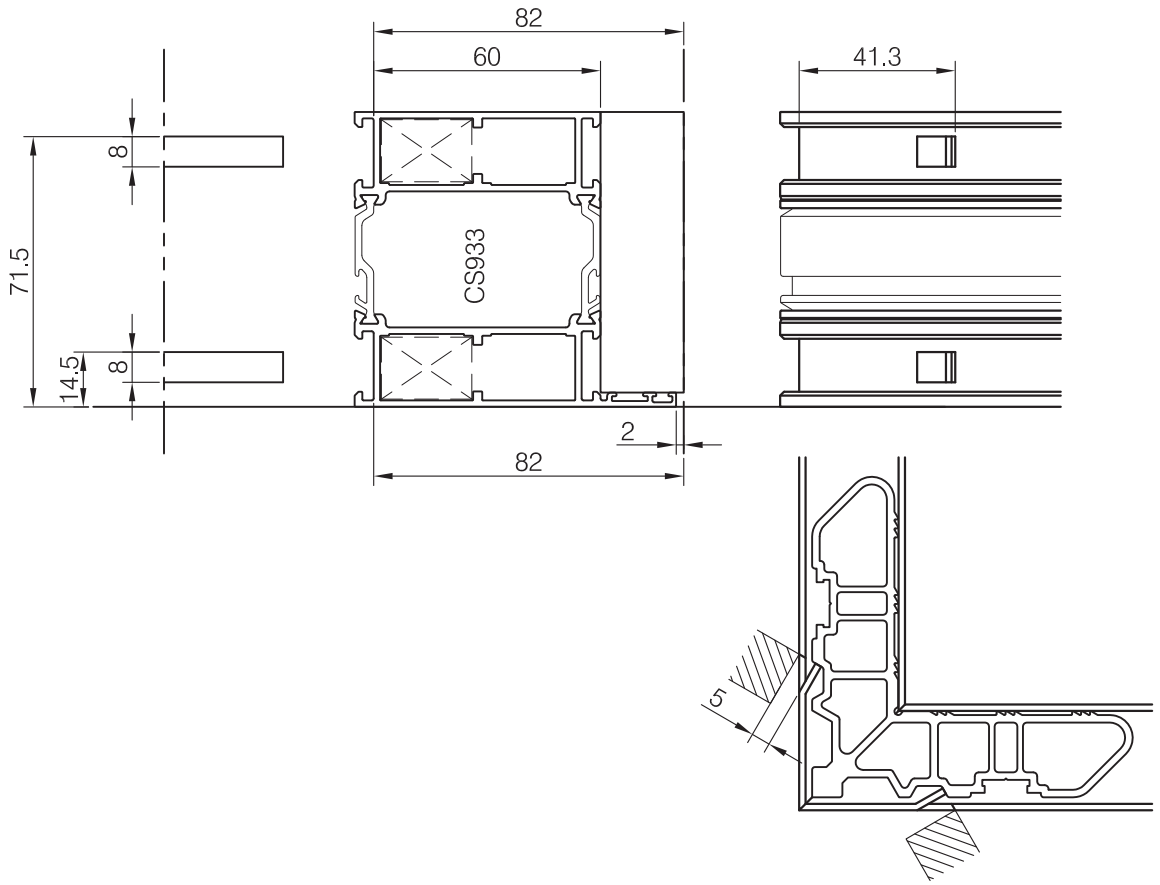
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TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

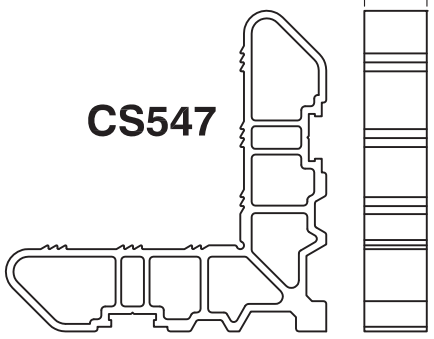
SHEET No.
4.17

SUB TITLE
CASEMENT WINDOWS
CS933 CRIMP CORNER



Cut cleat to
this size
16.5±0.2

CS547



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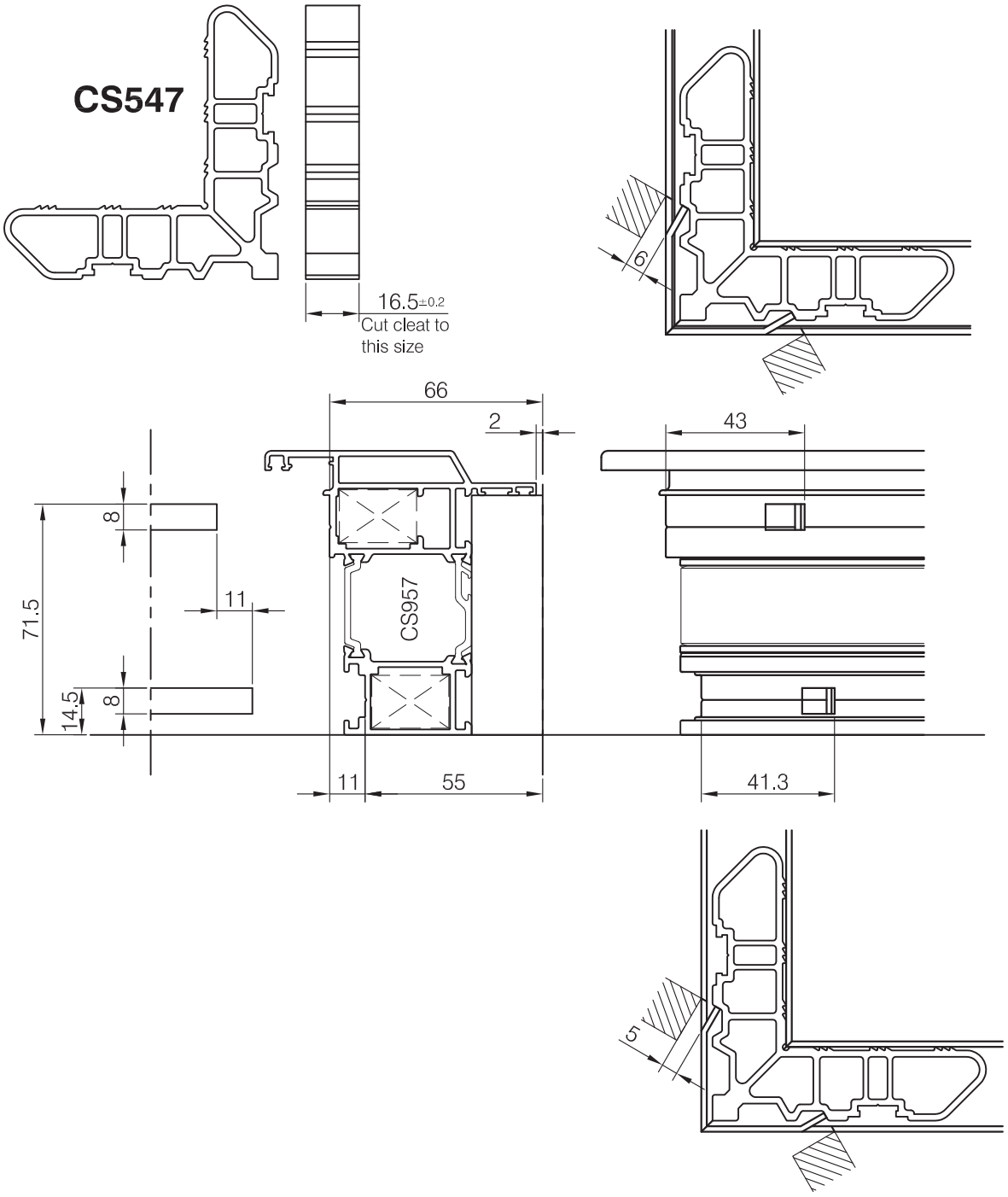
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DRG. No.	C9-Pi-PF-CW 4.17 R0

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TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
4.18

SUB TITLE
CASEMENT WINDOWS
CS957 CRIMP CORNER



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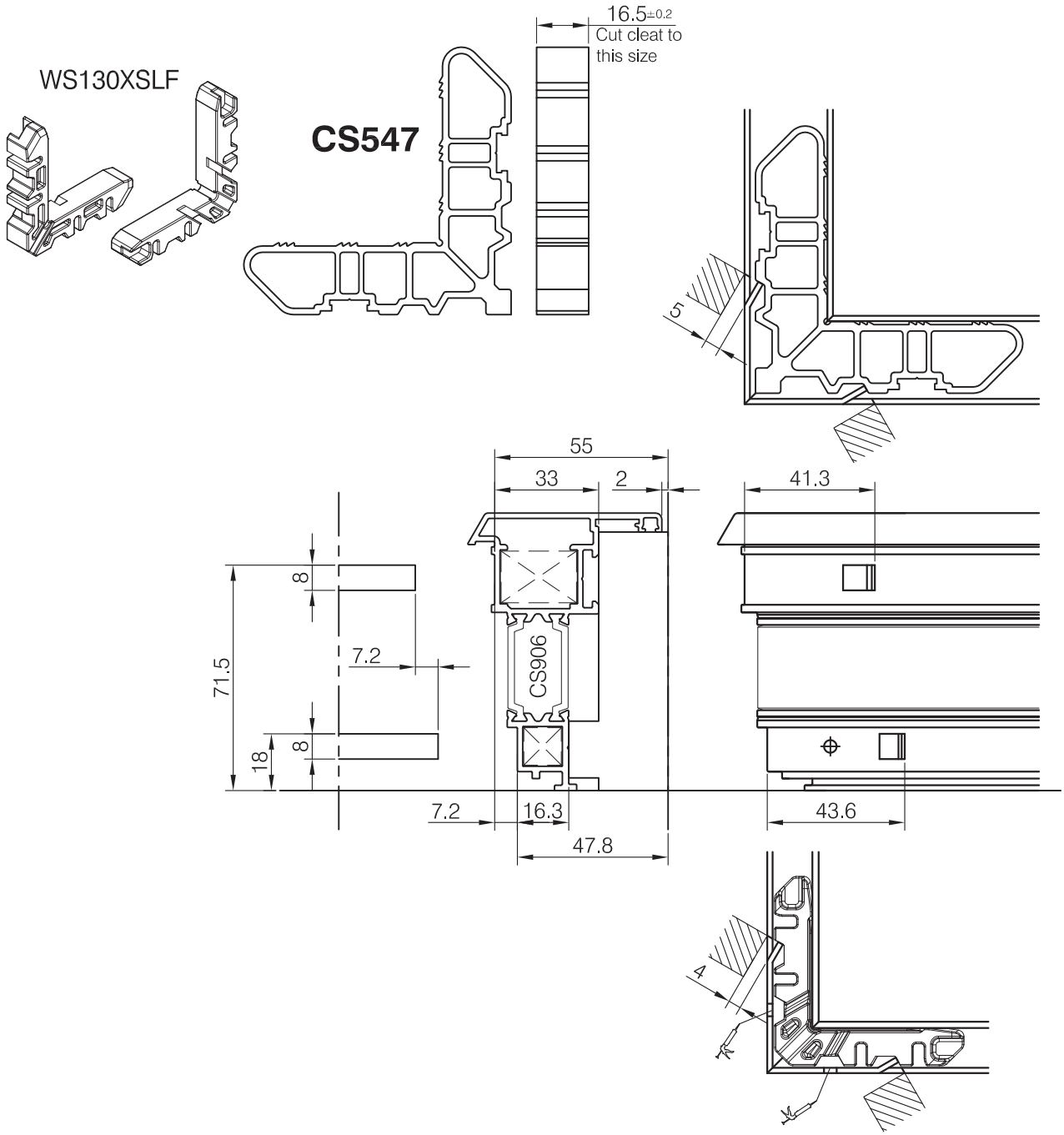
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DATE	27–02–2017
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DRG. No.	C9–Pi–PF–CW 4.18 R0

comar9Pi

TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
4.19

SUB TITLE
CASEMENT WINDOWS
CS906 CRIMP CORNER



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SCALE	1: 2 @ A4
DATE	27–02–2017
DRAWN	JPRG / CAD
DRG. No.	C9–Pi–PF–CW 4.19 R0

comar9Pi

TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
4.20

SUB TITLE
CASEMENT WINDOWS
INTENTIONALLY BLANK

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SCALE	1:1 @ A4
DATE	27-04-2017
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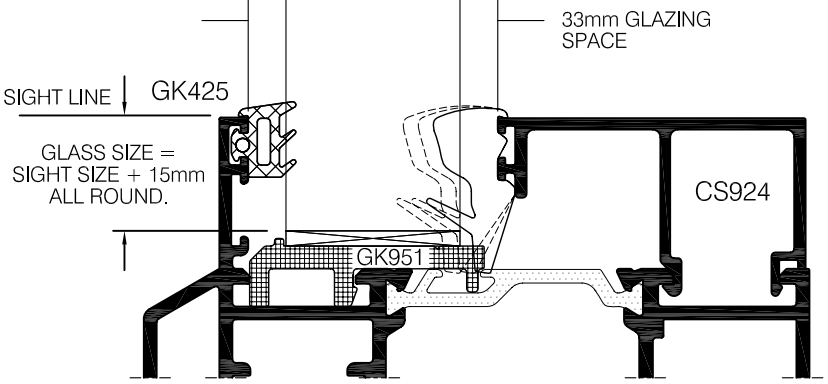
comar 9Pi

TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
5.01

SUB TITLE
CASEMENT WINDOW
CS924 / CS925

CAPTIVE GASKET ref.	GASKET VALUE M/M	MAX M/M			WEDGE VALUE M/M	WEDGE INSERT ref.
GK425	5		22	21	5 - 7	GK906
GK425	5	21	20	19	7 - 9	GK908
GK425	5	19	18	17	9-11	GK910
			MIN M/M			

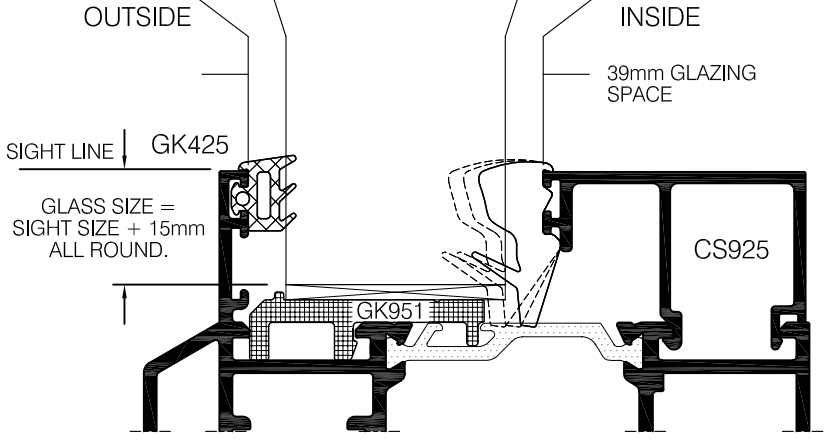


DOUBLE GLAZED WINDOW SYSTEM WITH SQUARE BEAD.

ORDER OF ASSEMBLY:-
1. CAPTIVE GASKET.
2. GLASS OR PANEL.
3. CS929-930 SQUARE BEAD.
4. INSERT WEDGE GASKET.

TO ENSURE SATISFACTORY PRODUCT PERFORMANCE, BOTTOM CORNERS AND INTERNAL GASKET CORNER JOINTS SHOULD BE SILICONE SEALED.

CAPTIVE GASKET ref.	GASKET VALUE M/M	MAX M/M			WEDGE VALUE M/M	WEDGE INSERT ref.
GK425	5		28	27	5 - 7	GK906
GK425	5	27	26	25	7 - 9	GK908
GK425	5	25	24	23	9 -11	GK910
			MIN M/M			



IMPORTANT NOTE

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DRG. No.	C9 Pi-PF-CW 5.01 R1

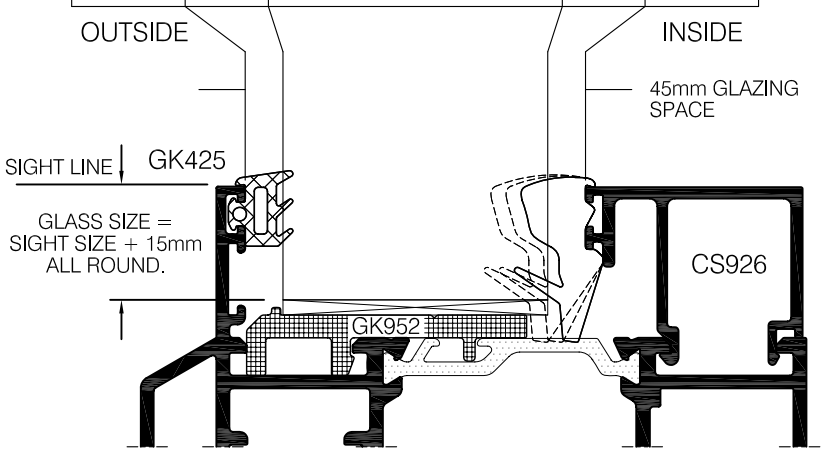
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TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
5.02

SUB TITLE
CASEMENT WINDOW
CS926 / CS927

CAPTIVE GASKET ref.	GASKET VALUE M/M	MAX M/M	WEDGE VALUE M/M	WEDGE INSERT ref.
GK425	5	34 33	5 - 7	GK906
GK425	5	33 32 31	7 - 9	GK908
GK425	5	31 30 29	9 -11	GK910
		MIN M/M		

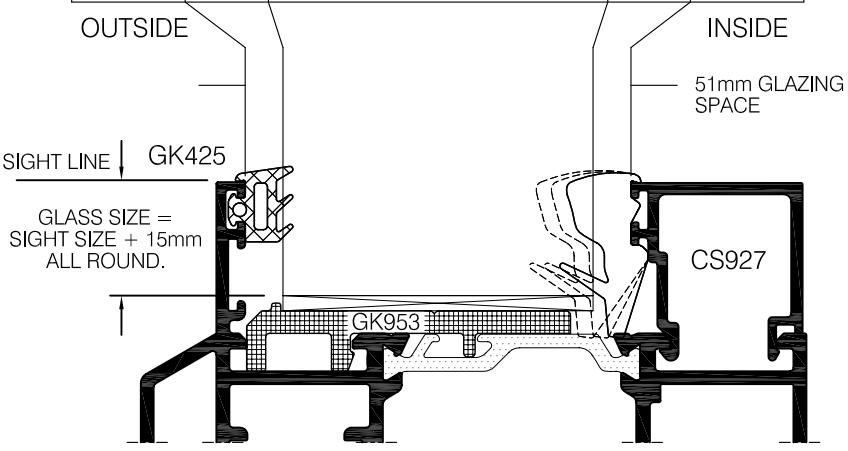


DOUBLE GLAZED WINDOW SYSTEM WITH SQUARE BEAD.

ORDER OF ASSEMBLY:-
1. CAPTIVE GASKET.
2. GLASS OR PANEL.
3. CS929-930 SQUARE BEAD.
4. INSERT WEDGE GASKET.

TO ENSURE SATISFACTORY PRODUCT PERFORMANCE, BOTTOM CORNERS AND INTERNAL GASKET CORNER JOINTS SHOULD BE SILICONE SEALED.

CAPTIVE GASKET ref.	GASKET VALUE M/M	MAX M/M	WEDGE VALUE M/M	WEDGE INSERT ref.
GK425	5	40 39	5 - 7	GK906
GK425	5	39 38 37	7 - 9	GK908
GK425	5	37 36 35	9 -11	GK910
		MIN M/M		



IMPORTANT NOTE

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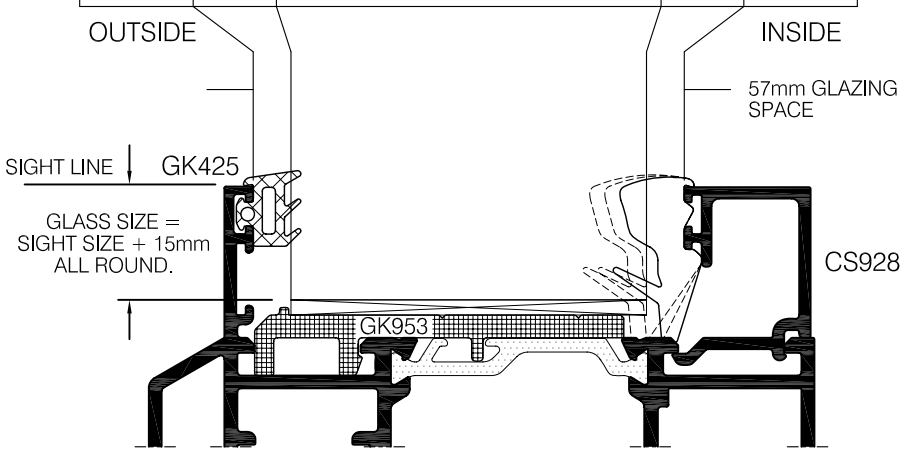
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TITLE **PERFORMANCE FRAMING SYSTEM**
FRAMING, WINDOWS, DOORS

SHEET No. **5.03**

SUB TITLE **CASEMENT WINDOW**
CS928 / CS929

CAPTIVE GASKET ref.	GASKET VALUE M/M	MAX M/M			WEDGE VALUE M/M	WEDGE INSERT ref.
GK425	5		46	45	5 - 7	GK906
GK425	5	45	44	43	7 - 9	GK908
GK425	5	43	42	41	9 -11	GK910
			MIN M/M			

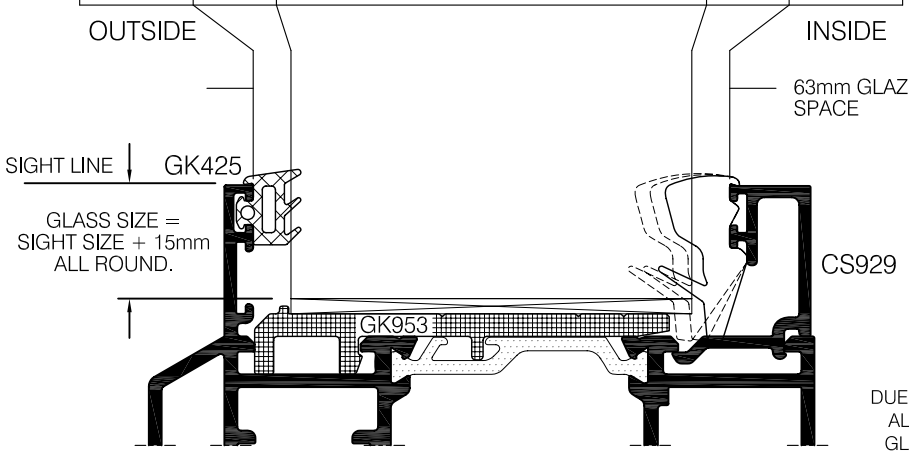


DOUBLE GLAZED WINDOW SYSTEM WITH SQUARE BEAD.

ORDER OF ASSEMBLY:-
1. CAPTIVE GASKET.
2. GLASS OR PANEL.
3. CS929-930 SQUARE BEAD.
4. INSERT WEDGE GASKET.

TO ENSURE SATISFACTORY PRODUCT PERFORMANCE, BOTTOM CORNERS AND INTERNAL GASKET CORNER JOINTS SHOULD BE SILICONE SEALED.

CAPTIVE GASKET ref.	GASKET VALUE M/M	MAX M/M			WEDGE VALUE M/M	WEDGE INSERT ref.
GK425	5		52	51	5 - 7	GK906
GK425	5	51	50	49	7 - 9	GK908
GK425	5	49	48	47	9 -11	GK910
			MIN M/M			



IMPORTANT NOTE

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DRAWN	OP / DGN
DRG. No.	C9 Pi–PF–CW 5.03 R1

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TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

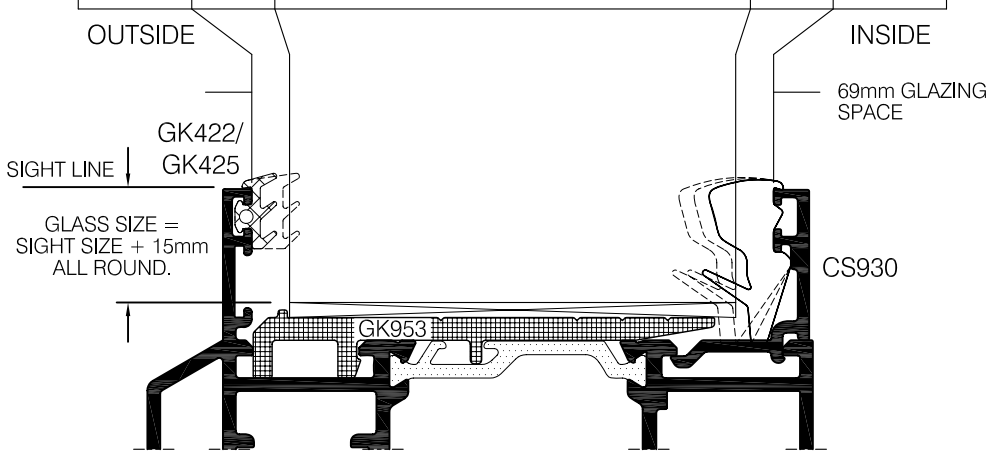
SHEET No.
5.04

SUB TITLE
CASEMENT WINDOW
CS930

DOUBLE GLAZED WINDOW SYSTEM
WITH SQUARE BEAD.

ORDER OF ASSEMBLY:-
1. CAPTIVE GASKET.
2. GLASS OR PANEL.
3. CS929-930 SQUARE BEAD.
4. INSERT WEDGE GASKET.

CAPTIVE GASKET ref.	GASKET VALUE M/M	MAX M/M			WEDGE VALUE M/M	WEDGE INSERT ref.
GK422	2	62	61	60	5 - 7	GK906
GK425	5	59	58	57	5 - 7	GK906
GK425	5	57	56	55	7 - 9	GK908
GK425	5	55	54	53	9 -11	GK910
			MIN M/M			



TO ENSURE SATISFACTORY PRODUCT PERFORMANCE, BOTTOM CORNERS AND INTERNAL GASKET CORNER JOINTS SHOULD BE SILICONE SEALED.

IMPORTANT NOTE

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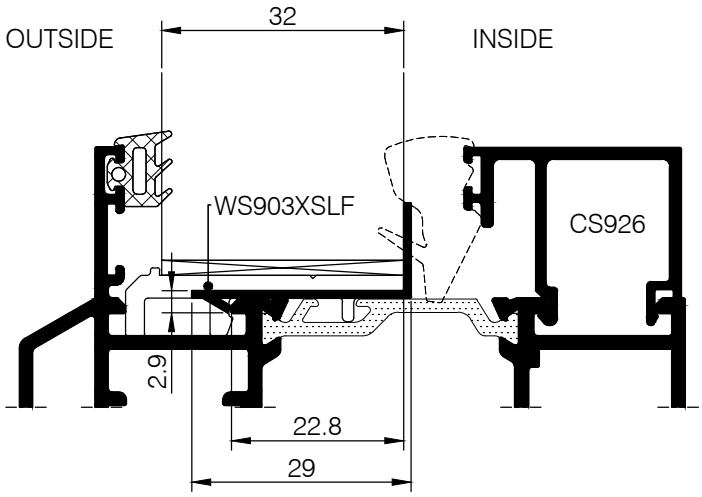
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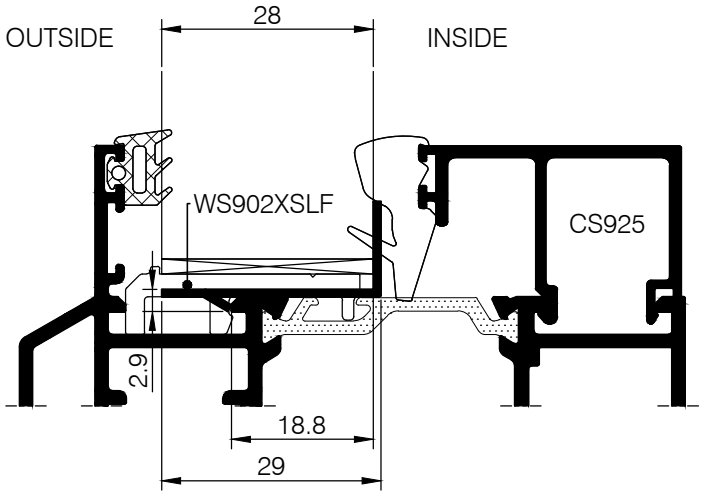
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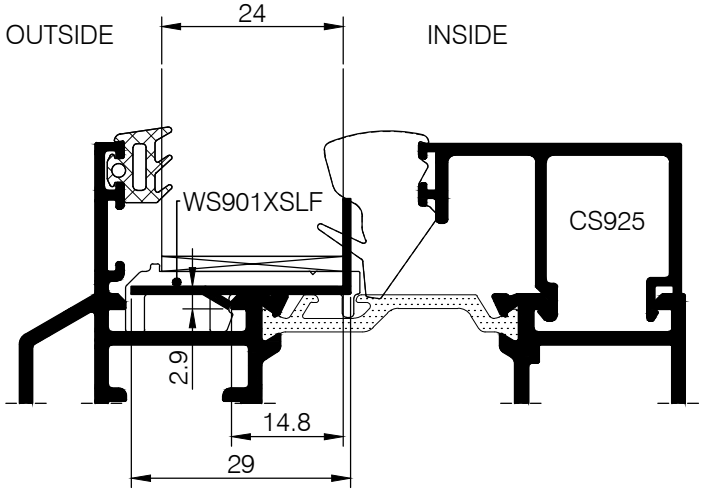
TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
5.05

SUB TITLE
CASEMENT WINDOW
SECURITY GLAZING OPTION





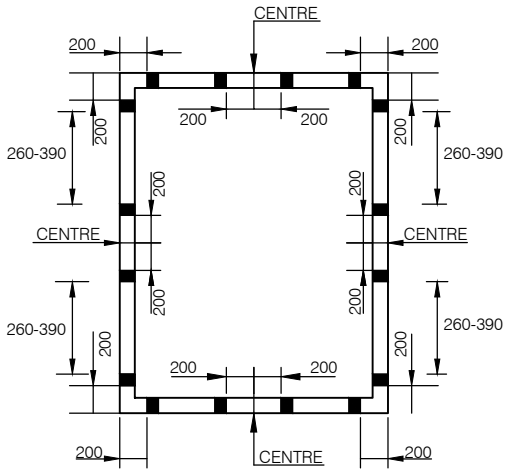


DOUBLE GLAZED WINDOW SYSTEM WITH SQUARE BEAD.

ORDER OF ASSEMBLY:-
1. CAPTIVE GASKET.
2. GLASS OR PANEL.
3. PUSH GLAZING CLIP BETWEEN VENT/FRAME AND GLASS BEFORE TOE AN HEELING.
4. INSERT PACKERS TO SUIT BETWEEN GLASS AND GLAZING CLIP WITH SILICONE TO KEEP PACKER IN PLACE.
5. CS929-930 SQUARE BEAD.
6. INSERT WEDGE GASKET.

TO ENSURE SATISFACTORY PRODUCT PERFORMANCE, BOTTOM CORNERS AND INTERNAL GASKET CORNER JOINTS SHOULD BE SILICONE SEALED.





IMPORTANT NOTE

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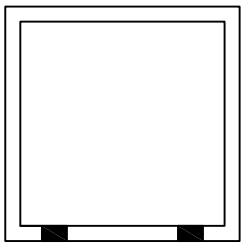
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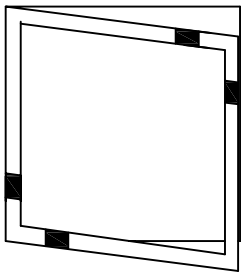
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FRAMING, WINDOWS, DOORS

SHEET No.
5.06

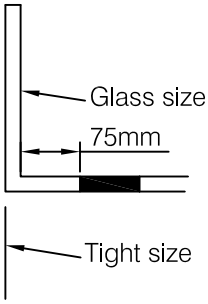
SUB TITLE
CASEMENT WINDOW
GLAZING PACKER POSITIONING

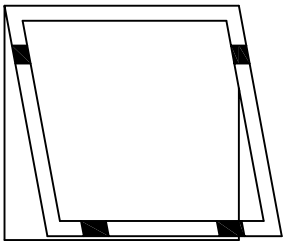


Fixed light



Side projected





Top projected

SETTING BLOCK POSITIONS FOR DIFFERENT WINDOW TYPES.

FIXED LIGHT

NOTE: Setting blocks for fixed lights should preferably be at the quarter points, but can be positioned as shown above if necessary.

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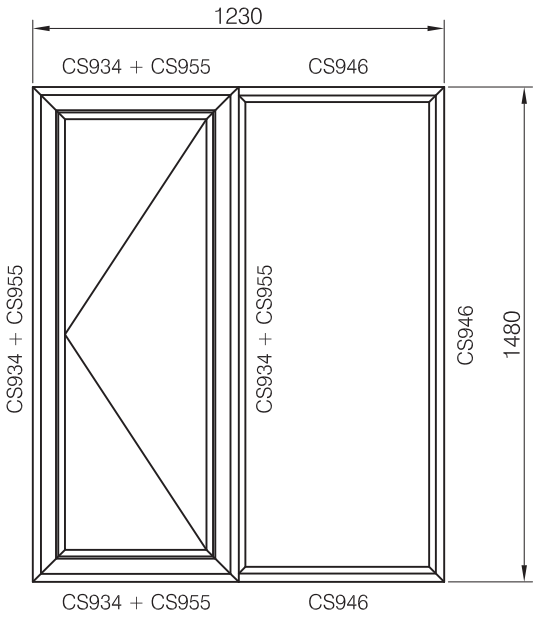
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DRG. No.	C9 Pi–PF–CW 5.06

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TITLE
PERFORMANCE FRAMING SYSTEM
FRAMING, WINDOWS, DOORS

SHEET No.
6.01

SUB TITLE
CASEMENT WINDOWS
U-VALUE



GLASS CENTRE PANEL U - VALUE	LINEAR THERMAL TRANSMITTANCE OF GLASS EDGE (WARM EDGE SPACER)	AVERAGE AREA WEIGHTED U-VALUE OF SCREEN
1.1 W/m2K	0.05 W/m2K	1.91 W/m2K
1.2 W/m2K	0.05 W/m2K	1.98 W/m2K
1.3 W/m2K	0.05 W/m2K	2.05 W/m2K

GLASS CENTRE PANEL U - VALUE	LINEAR THERMAL TRANSMITTANCE OF GLASS EDGE (STANDARD SPACER)	AVERAGE AREA WEIGHTED U-VALUE OF SCREEN
1.1 W/m2K	0.08 W/m2K	2.03 W/m2K
1.2 W/m2K	0.08 W/m2K	2.10 W/m2K
1.3 W/m2K	0.08 W/m2K	2.17 W/m2K

FOR MAXIMUM SIZE PLEASE CONTACT
COMAR TECHNICAL DEPARTMENT

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