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COMAR 6 CURTAIN WALLING STICK BUILD

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COMAR 2 WINDOW WALLING

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FOR FUTURE USE

COMAR 6 STICK BUILD SYSTEM

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Introduction

COMAR offers one of the most versatile approaches to insulated aluminium low to medium rise curtain wall cladding for new developments or building refurbishment.

Comar 6 is developed from Comar's many years of experience with facade framing systems and proven methods of pressure plate curtain wall glazing.

Innovative features are offered and illustrated in this technical manual. Of these the most distinctive is the variety of external cover caps allowing for variations in facade appearance.

Specification

COMAR Stick build is designed to conform, where applicable, to BS 8200: 1995, Code of practice for design of non load bearing external vertical enclosures of buildings and to the CWCT (Centre for Window & Cladding Technology) Standard for curtain walling, Guide to good practice for facades and Test methods of curtain walling.

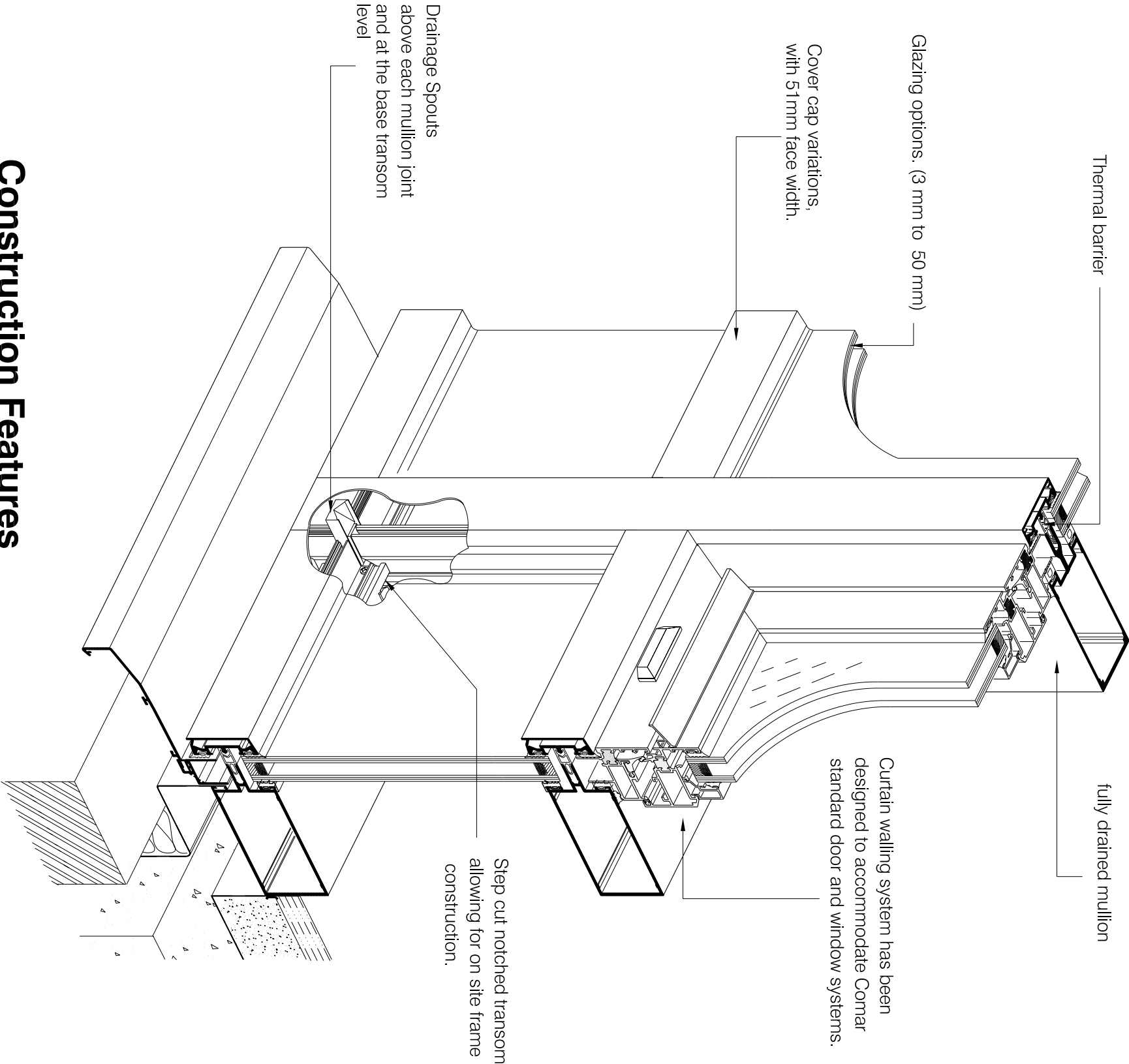
MATERIALS:
Extruded aluminium alloy profiles are of aluminium alloy 6063 TF, TE or TB to BS 1474. Glazing gaskets are extruded from EPDM rubber.

FINISHES:
Aluminium profiles may be finished to the following specifications;
Silver, Bronze, or Black anodising to BS 3987.
Liquid organic coating to BS 4842.
Powder organic coating to BS 6496.

CONSTRUCTION:
Curtain wall is constructed in stick format, utilising expansion pad joints between horizontal and vertical framing members, with the pressure plate to framework insulation/isolation provided by PVC205 extruded sections. All aluminium sections prepared using punch tooling to increase workshop productivity.

GLAZING:
Glass or spandrel panels from 3mm to 50mm thick is supported on aluminium self fixing shelf. Glazing is set dry against EPDM rubber gaskets in drained and ventilated rebates, to the recommendations of BS 6262.

FIXINGS:
Fixing material to conform to recommendations of BS 8200.
BS 8200. should be used by the curtain wall fabricator for guidance in contract preparation and execution together with the CWCT guidelines.



Construction Features

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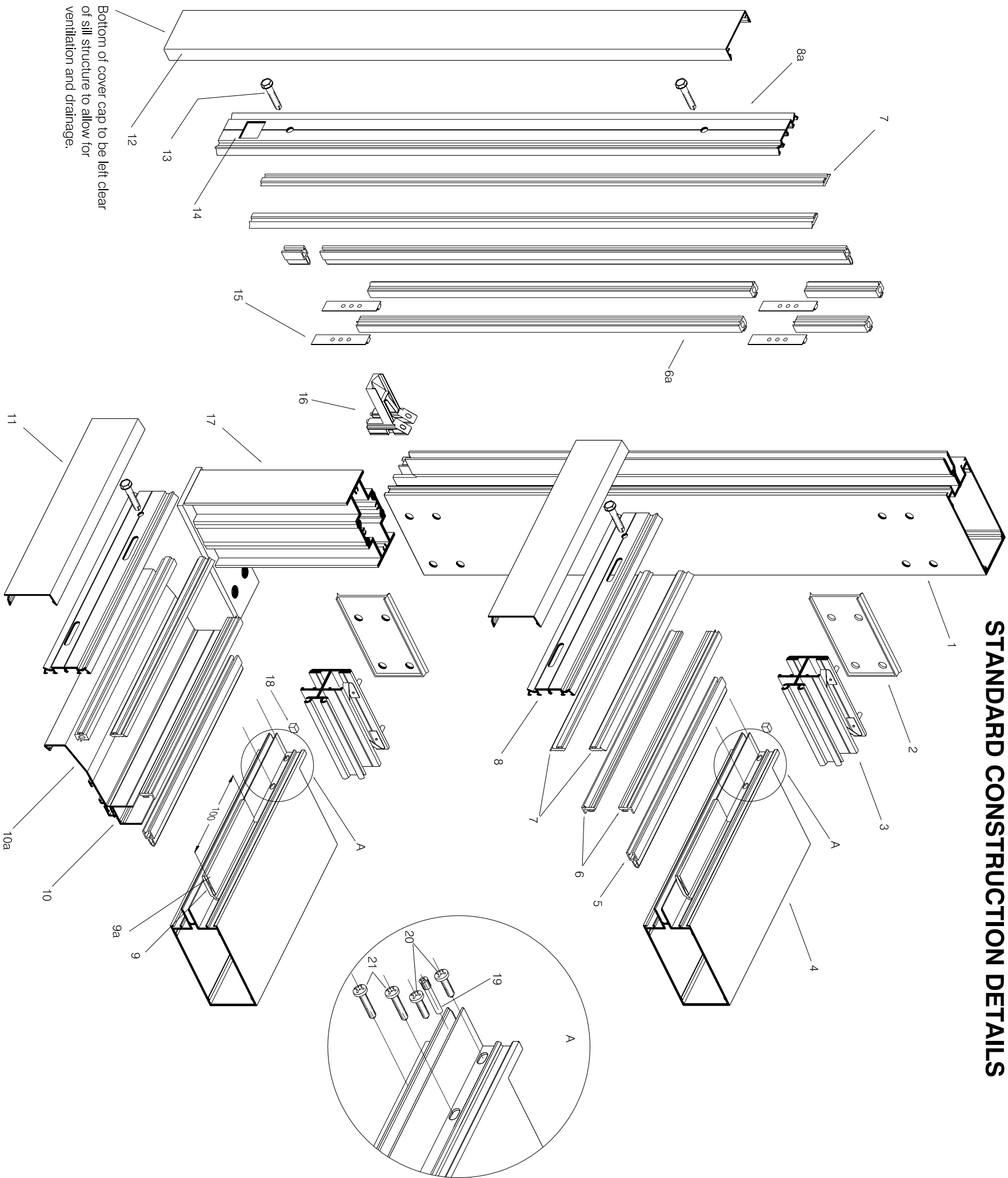
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CURTAIN WALLING
COMAR 6 STICK BUILD SYSTEM
INTRODUCTION AND SPECIFICATION
CONSTRUCTION FEATURES

comar 6 Stick

DRAWN	ANC	SCALE	N T S	@A3
DATE	16/10/06	DWG. No.	C6-SB-1.01	R1

STANDARD CONSTRUCTION DETAILS



COMPONENT LIST

1. 50mm Wide mullion section.
2. Expansion pad
3. Transom sprung loaded cleat with plated steel pins.
4. 50mm wide step cut transom.
5. Isolator.
6. Internal transom gasket.
- 6a. Internal mullion gasket.
7. GK23 External pressure plate gasket.
8. CS630 Curtain walling pressure plate. Pre-punched fixing holes & slotted drainage holes. (Transom)
- 8a. CS632 Curtain walling pressure plate. Pre-punched fixing holes only. (Mullions)
9. Aluminium shelf glass support section to be cut at 100mm lengths.
- 9a. 3mm glass support block.
10. Curtain walling sub sill carrier. (CS685)
- 10a. Sub sill nosing (Lengths to suit structure)
11. Curtain walling transom cap.
(Slotted for drainage & ventilation.)
12. Curtain walling mullion cap.
13. M6 hex head stainless steel fixing bolts with self drill tip, 30mm in each end then @ pre-punched 300mm centres.
14. Drainage spout clearance hole 22mm x 20mm.
15. Transom sealing pad (CW065XSLF).
16. Mullion drainage spout.
17. Mullion shoe tie down bracket constructed from mullion sleeve and flat aluminium plate, with GK600 mullion sleeve spacer.
18. Transom end filler block (CW063XSLF)
19. M6 stainless steel shear pin (FX605XSLF).
(Transom to mullion)
20. 2 x No8 x 12mm (FX033XSLF) pan head stainless steel self tapers. (Transom to mullions)
21. 2 x No.8 x 32mm (FX032XSLF) pan head stainless steel self tapers. (Transom to cleat)

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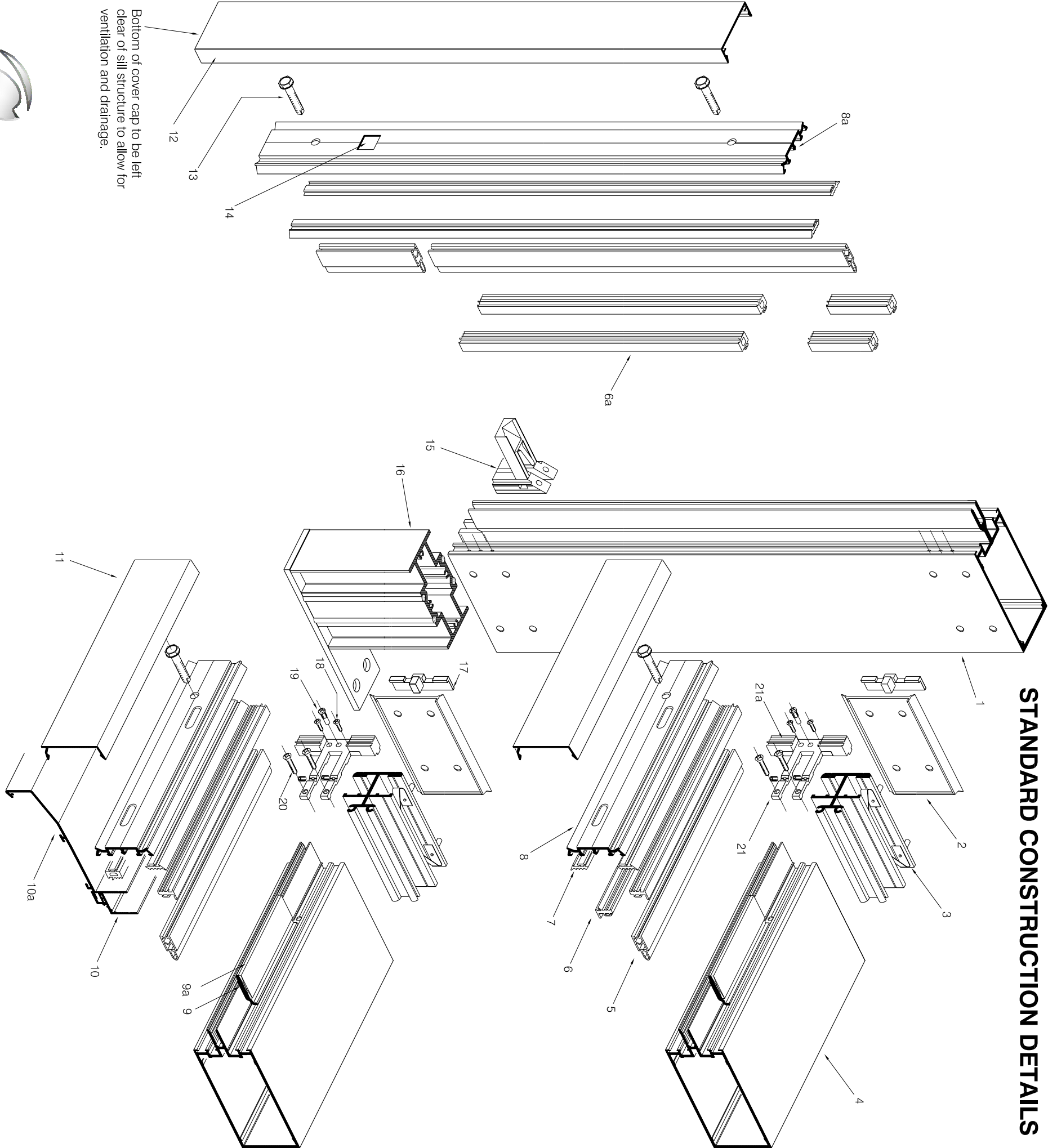
CURTAIN WALLING
COMAR 6 STICK BUILD SYSTEM
CONSTRUCTION DETAILS
STEP CUT TRANSOM

comar 6 Stick

DRAWN	ANC	SCALE	N T S	@A3
DATE	16/10/06	DRC. No.	CG-SB-1.02	R1

STANDARD CONSTRUCTION DETAILS

COMPONENT LIST



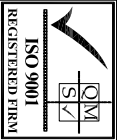
- 1. 50mm wide mullion section.
- 2. Expansion pad
- 3. Transom sprung loaded cleat plated steel pins.
- 4. 50mm wide square cut transom.
- 5. Isolator.
- 6. Internal transom gasket.
- 6a. Internal mullion gasket.
- 7. GK23 External pressure plate gasket.
- 8. CS630 Curtain walling pressure plate. Pre-punched fixing holes & slotted drainage holes. (Transom)
- 8a. CS632 Curtain walling pressure plate. Pre-punched fixing holes only. (Mullions)
- 9. Aluminium shelf glass support section to be cut at 100mm lengths.
- 9a. 3mm glass support block.
- 10. Curtain walling sub sill carrier. (CS685)
- 10a. Sub sill nosing (Lengths to suit structure)
- 11. Curtain walling transom cap. (Slotted for drainage & ventilation.)
- 12. Curtain walling mullion cap.
- 13. M6 hex head stainless steel fixing bolts with self drill tip. 30mm in each end then @ pre-punched 300mm centres.
- 14. Drainage spout clearance hole 22mm x 20mm.
- 15. Mullion drainage spout.
- 16. Mullion shoe tie down bracket constructed from mullion sleeve and flat aluminium plate, with GK600 mullion sleeve spacer.
- 17. Transom end filler block (CW064XSLF)
- 18. 2 x No8 x 16mm (FX034XSLF) csk. head stainless steel self tapers. (Transom to mullions)
- 19. M6 stainless steel shear pin (FX604XSLF). (Transom to mullion)
- 20. 2 x No 8 x 32mm (FX036XSLF) csk head stainless steel self tapers. (Transom to cleat)
- 21. Transom end bracket CW603XSLF.
- 21a. Transom pre-formed end gasket. Order dependent on internal mullion gasket used. i.e, GK612 = CW612XSLF.

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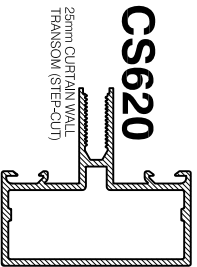


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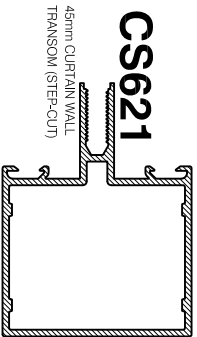
CURTAIN WALLING
COMAR 6 STICK BUILD SYSTEM
CONSTRUCTION DETAILS
SQUARE CUT TRANSOM

comar 6 Stick

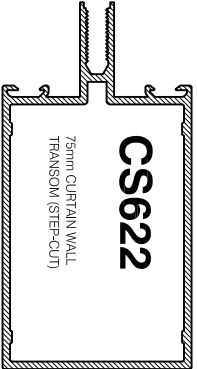
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DATE	16/10/06	DRC. No.	C6-SB-1.03	R1



CS620
25mm CURTAIN WALL
TRANSOM (STEP-CUT)



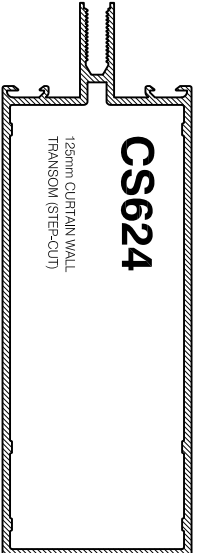
CS621
45mm CURTAIN WALL
TRANSOM (STEP-CUT)



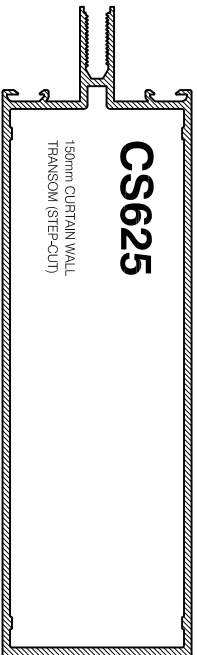
CS622
75mm CURTAIN WALL
TRANSOM (STEP-CUT)



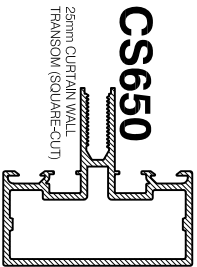
CS623
105mm CURTAIN WALL
TRANSOM (STEP-CUT)



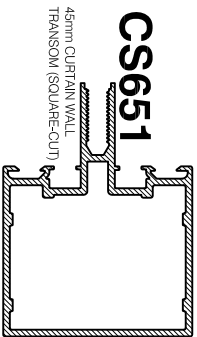
CS624
125mm CURTAIN WALL
TRANSOM (STEP-CUT)



CS625
150mm CURTAIN WALL
TRANSOM (STEP-CUT)



CS650
25mm CURTAIN WALL
TRANSOM (SQUARE-CUT)



CS651
45mm CURTAIN WALL
TRANSOM (SQUARE-CUT)



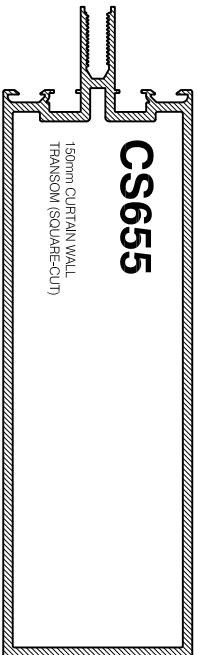
CS652
75mm CURTAIN WALL
TRANSOM (SQUARE-CUT)



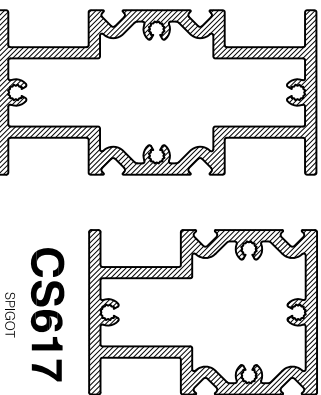
CS653
105mm CURTAIN WALL
TRANSOM (SQUARE-CUT)



CS654
125mm CURTAIN WALL
TRANSOM (SQUARE-CUT)

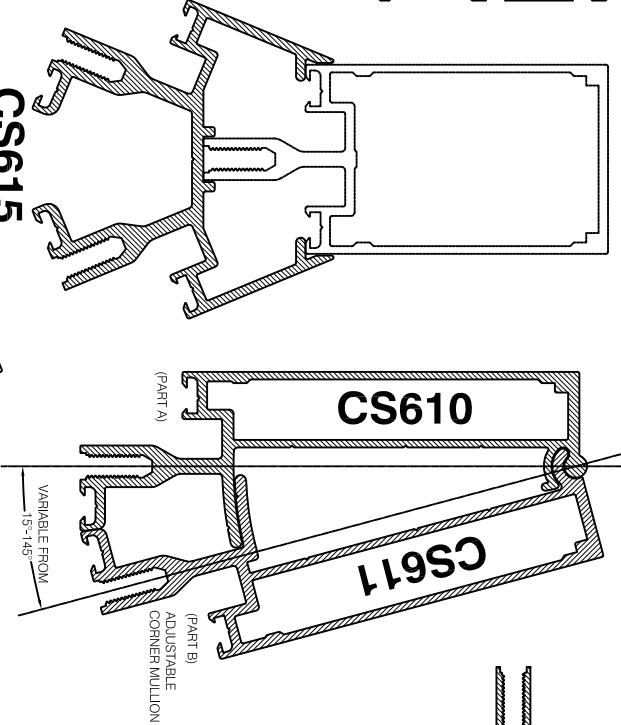


CS655
150mm CURTAIN WALL
TRANSOM (SQUARE-CUT)



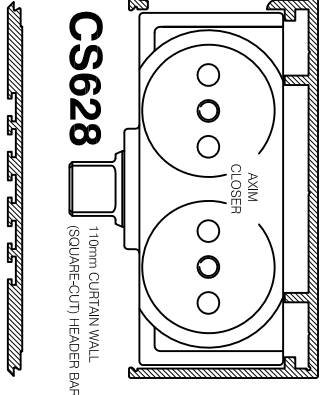
CS617
SPIGOT

CS618
SPIGOT



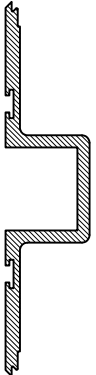
CS610

CS611



CS628
110mm CURTAIN WALL
(SQUARE-CUT) HEADER BAR

CS68
UNIVERSAL HEADER BAR PLATE

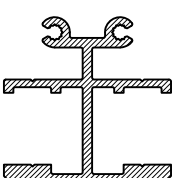


CS42
HEADER BAR PLATE
SLIDING/FOLDING DOOR



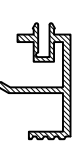
CS641
3mm - 28mm
GLASS SUPPORT

CS642
3mm - 50mm
GLASS SUPPORT



CS629R
CURTAIN WALL SPRING
LOADED CLEAT BRACKET

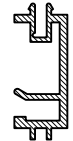
CS633
CURTAIN WALL 27 mm
POCKET FILLER FOR
PVC PRESSURE PLATE



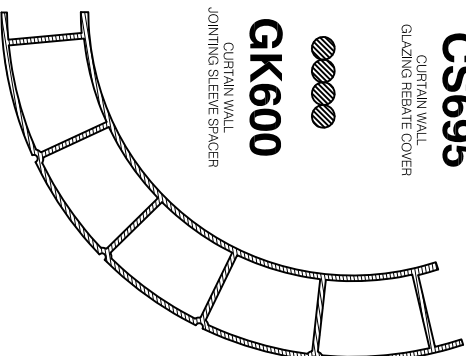
CS689
CURTAIN WALL
POCKET ADAPTOR



CS692
CURTAIN WALL
PERIMETER
CHANNEL



CS682
CURTAIN WALL 30 mm
POCKET FILLER



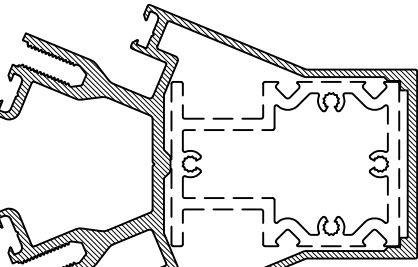
GK600
CURTAIN WALL
JOINTING STEEPER SPACER



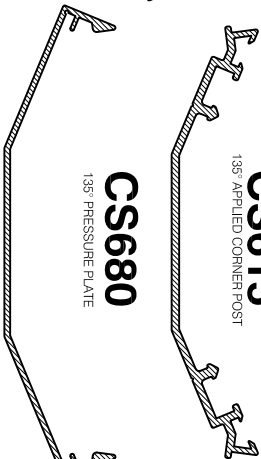
**SHEAR
PIN**
(FOR STEP-CUT TRANSOM)
REF: FX60XSFLF

(FOR SQUARE CUT END BRACKET)
REF: FX60XSFLF

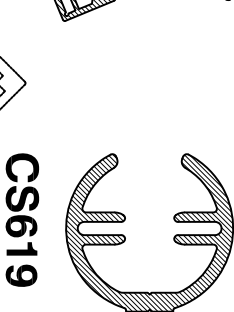
**SHEAR
PIN**
(FOR SQUARE CUT END BRACKET)
REF: FX60XSFLF



CS614
135° CORNER POST

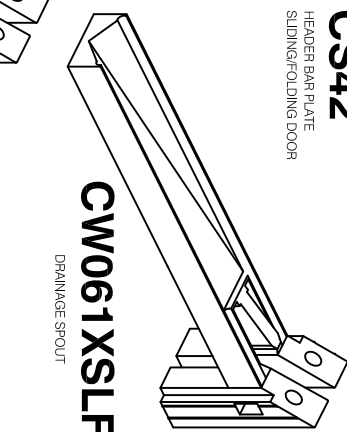


CS615
135° APPLIED CORNER POST

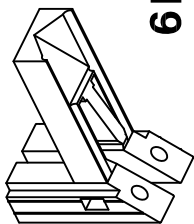


CS680
135° PRESSURE PLATE

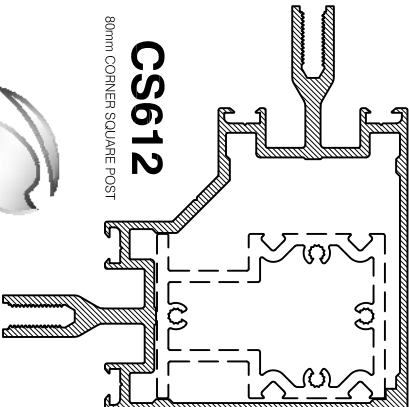
CS681
135° COVER CAP (15mm)



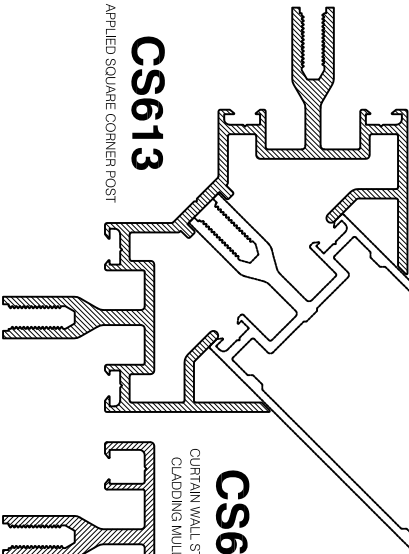
CW061XSFLF
DRAINAGE SPOUT



CW060XSFLF
DRAINAGE SPOUT



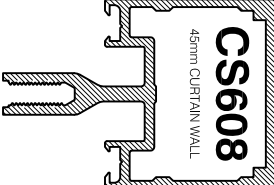
CS612
80mm CORNER SQUARE POST



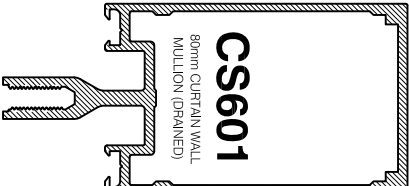
CS613
APPLIED SQUARE CORNER POST



CS600
CURTAIN WALL STEEL FRAME
CLADDING MULLION ONLY



CS608
45mm CURTAIN WALL



CS601
80mm CURTAIN WALL
MULLION (DRAINED)



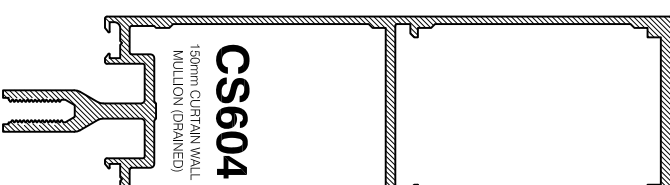
CS602
105mm CURTAIN WALL
MULLION (DRAINED)



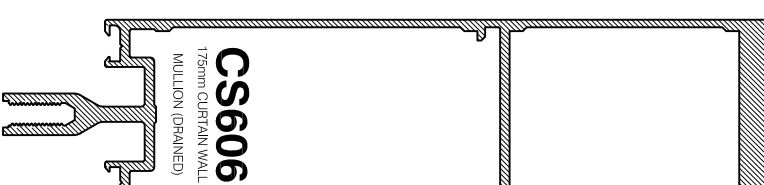
CS603
105mm CURTAIN WALL
MULLION (DRAINED)



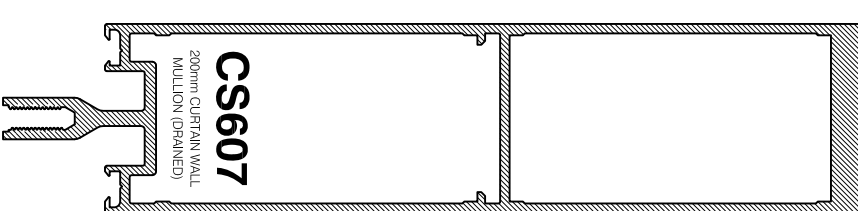
CS605
125mm CURTAIN WALL
MULLION (DRAINED)



CS604
150mm CURTAIN WALL
MULLION (DRAINED)



CS606
175mm CURTAIN WALL
MULLION (DRAINED)



CS607
200mm CURTAIN WALL
MULLION (DRAINED)



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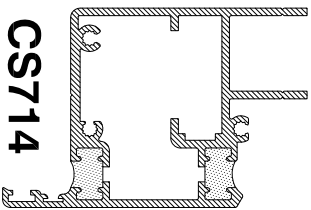


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**CURTAIN WALLING
COMAR 6 STICK BUILD SYSTEM
PROFILES AND ACCESSORIES
BROAD SHEET 1**

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comar 6 Stick			
DRAWN	ANC (IS)	SCALE	1:2
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TEMPEST 2000 REBATED DOOR
FRAME (COMAR 6)



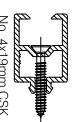
CS215
WINDOW DRIP



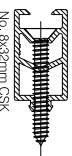
No. 4x12mm CSK
CS634
6mm CURTAIN
WALL ADAPTOR



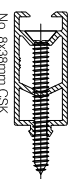
No. 4x18mm CSK
CS635
12mm CURTAIN
WALL ADAPTOR



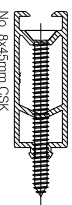
No. 4x19mm CSK
CS636
18mm CURTAIN
WALL ADAPTOR



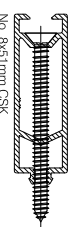
No. 6x35mm CSK
CS637
24mm CURTAIN
WALL ADAPTOR



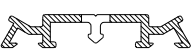
No. 6x38mm CSK
CS638
30mm CURTAIN
WALL ADAPTOR



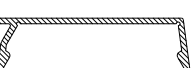
No. 6x35mm CSK
CS639
36mm CURTAIN
WALL ADAPTOR



No. 8x51mm CSK
CS640
42mm CURTAIN
WALL ADAPTOR



CS630
CURTAIN WALL PRESSURE
PLATE (PRE-PUNCHED & SLOTTED)
(TO BE USED OVER 1200mm CENTRES)



CS631
CURTAIN WALL TRANSOM
COVER CAP (14.5mm)



CS669
CURTAIN WALL
COVER CAP (15mm)



CS670
CURTAIN WALL
COVER CAP (30mm)



GK630
UPVC TRANSOM
PRESSURE PLATE



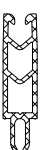
GK619
ISOLATOR



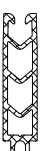
GK620
ISOLATOR



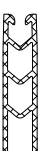
GK621
ISOLATOR



GK622
ISOLATOR



GK623
ISOLATOR



GK624
ISOLATOR



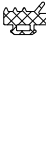
GK632
UPVC MULLION
PRESSURE PLATE



GK602
2mm GASKET WHITE



GK603
3mm GASKET YELLOW



GK604
4mm GASKET BLUE



GK605
5mm GASKET RED



GK606
6mm GASKET GREEN



GK607
7mm GASKET BLACK



GK23
3mm GASKET YELLOW



GK612
7mm GASKET WHITE



GK613
8mm GASKET YELLOW



GK614
9mm GASKET BLUE



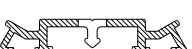
GK615
10mm GASKET RED



GK616
11mm GASKET GREEN



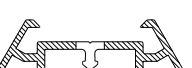
GK617
12mm GASKET BLACK



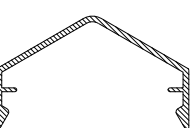
CS632
CURTAIN WALL PRESSURE
PLATE (PRE-PUNCHED) NO SLOTS
(TO BE USED UNDER 1200mm CENTRES)



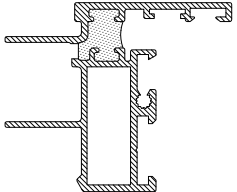
CS675
CURTAIN WALL
COVER CAP INSERT PLATE



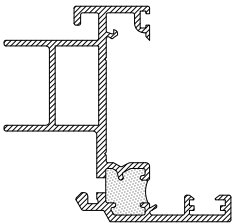
CS674
CURTAIN WALL
PRESSURE PLATE/COVER
CAP 14.5mm (PRE-PUNCHED)



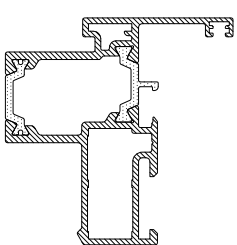
CS671
CURTAIN WALL
COVER CAP (30mm)



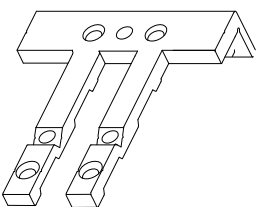
CS212
CURTAIN WALL
INSERT (T.B)



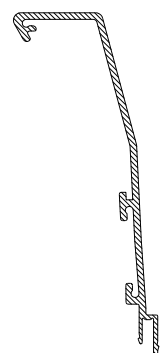
CS214
CURTAIN WALL
WINDOW INSERT (T.B)



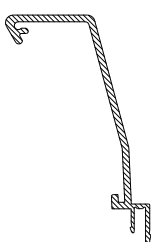
CS412
CURTAIN WALL
WINDOW INSERT (T.B)
TILT/TURN - PIVOT



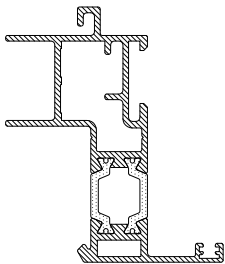
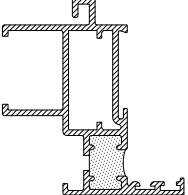
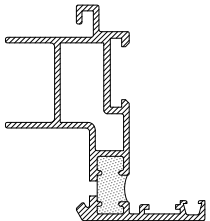
CS685
CURTAIN WALL
SUB SILL CARRIER



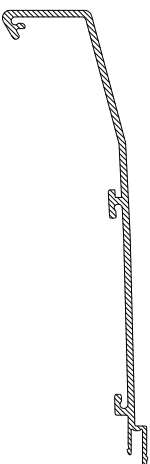
CS590
CURTAIN WALL
80mm SUB SILL NOSING



CS588
CURTAIN WALL
50mm SUB SILL NOSING



CW603XS LF
END BRACKET
(FOR SQUARE CUT TRANSOM)

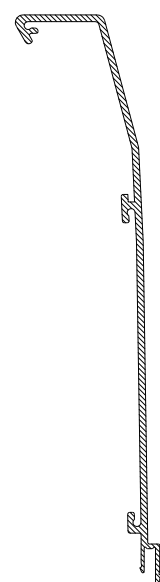


CS592
CURTAIN WALL
110mm SUB SILL NOSING

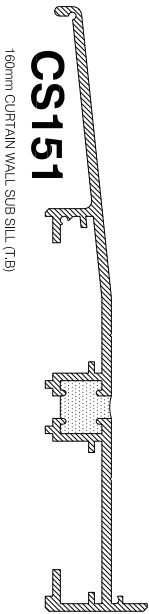
CS213
CURTAIN WALL
WINDOW INSERT (T.B)

CS513
CURTAIN WALL
WINDOW INSERT (T.B)

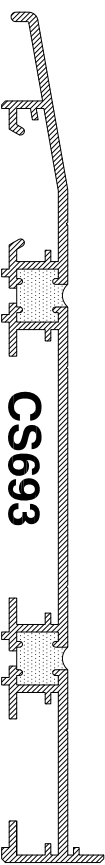
CS413
CURTAIN WALL
WINDOW INSERT (T.B)
OPEN OUT VENT



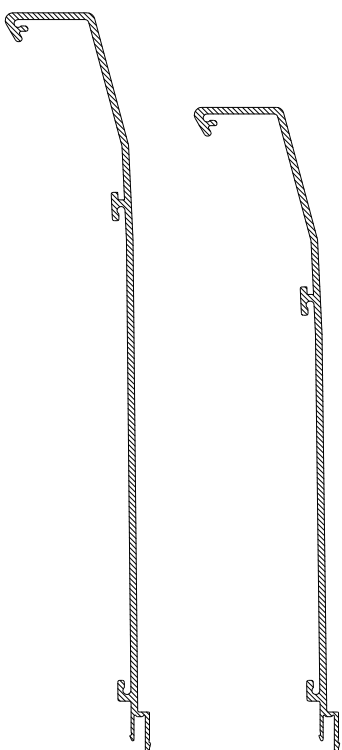
CS594
CURTAIN WALL
140mm SUB SILL NOSING



CS151
160mm CURTAIN WALL SUB SILL (T.B)



CS693
225mm CURTAIN WALL
EXTENDED SUB SILL (T.B)



CS596
CURTAIN WALL
160mm SUB SILL NOSING

CS598
CURTAIN WALL
180mm SUB SILL NOSING



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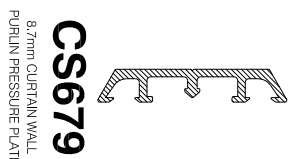


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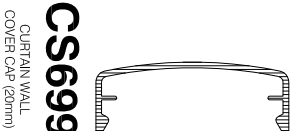
CURTAIN WALLING
COMAR 6 STICK BUILD SYSTEM
PROFILES AND ACCESSORIES
BROAD SHEET 2

comar 6 Stick			
DRAWN	GMS (ANC, IS)	SCALE	1:2
DATE	08/10/13	DWG. No.	C6-SB-1.05 R2

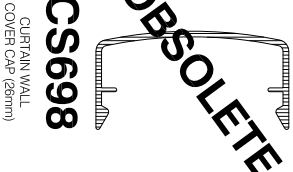


CS679
8.7mm CURTAIN WALL
PURLIN PRESSURE PLATE

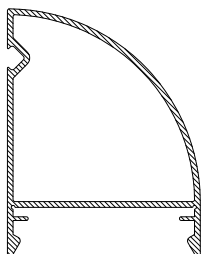
WS004SLF
DOWEL PINS FOR
COVER CAP ALIGNMENT



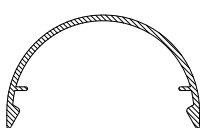
CS699
CURTAIN WALL
COVER CAP (20mm)



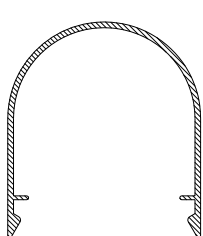
CS698
CURTAIN WALL
COVER CAP (20mm)



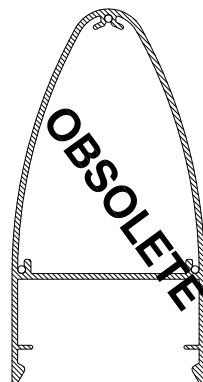
CS694
CURTAIN WALL
COVER CAP (66mm) PERIMETER SEAL



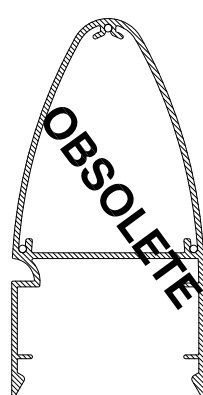
CS673
CURTAIN WALL
COVER CAP (30mm)



CS672
CURTAIN WALL
COVER CAP (57mm)



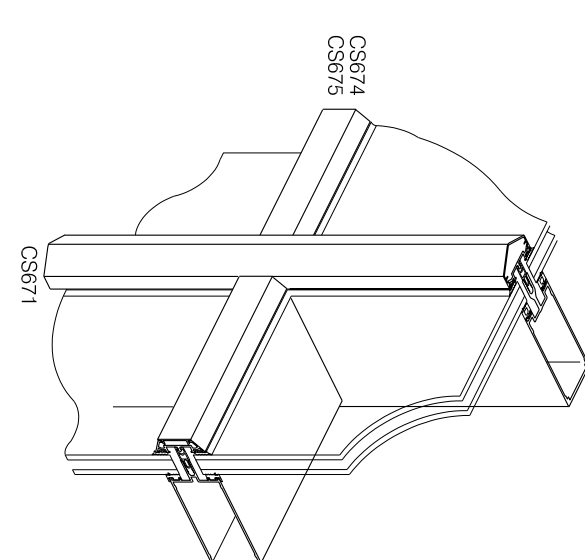
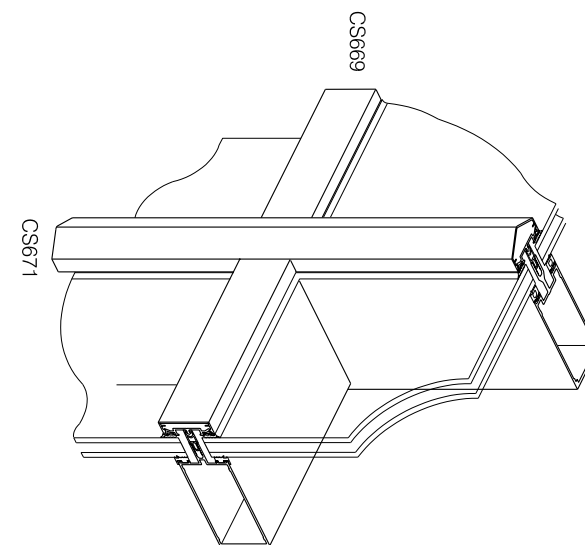
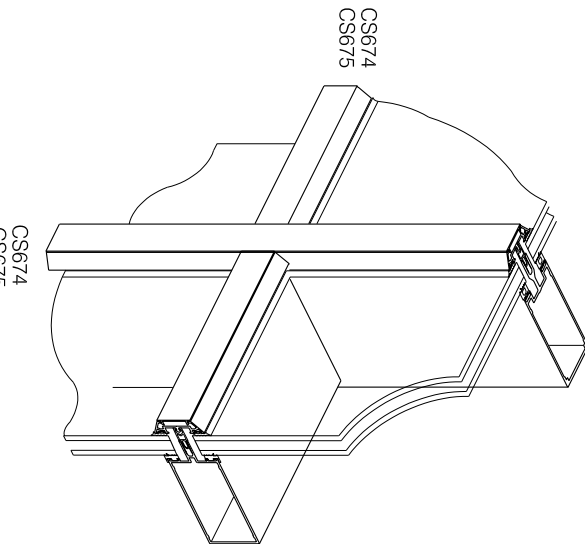
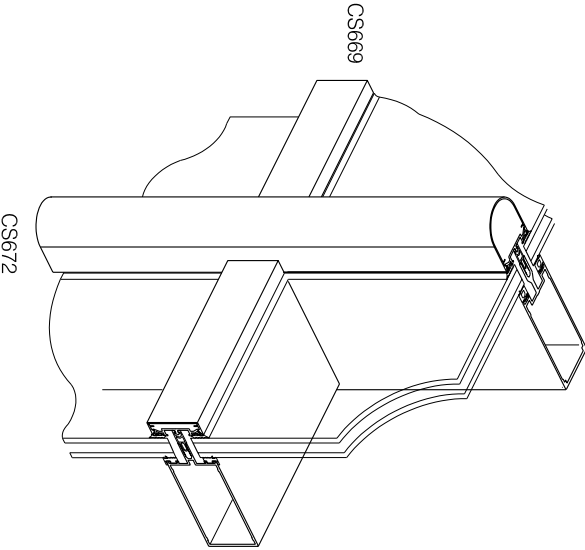
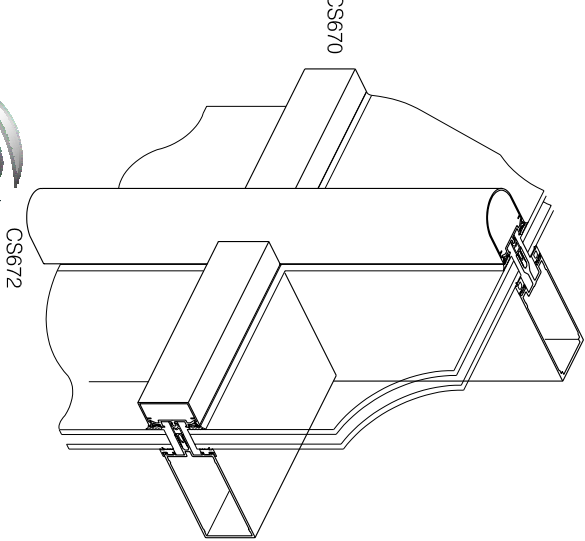
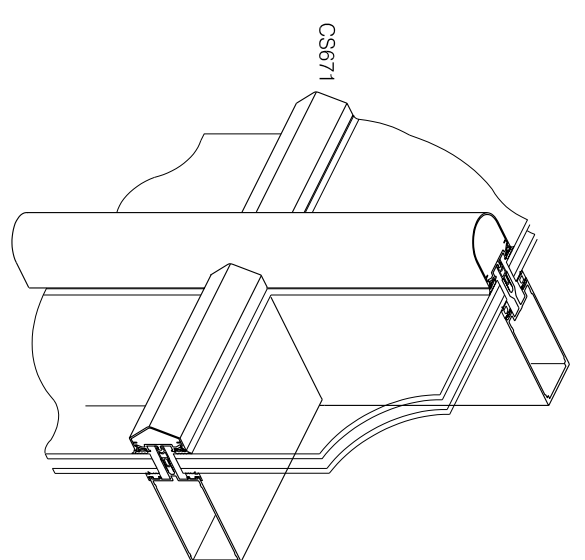
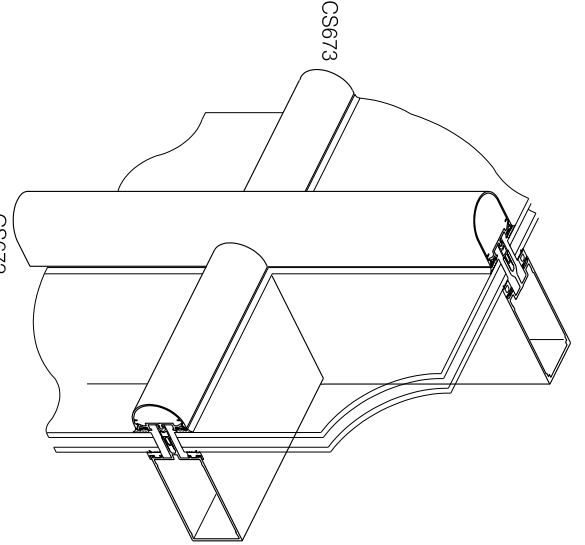
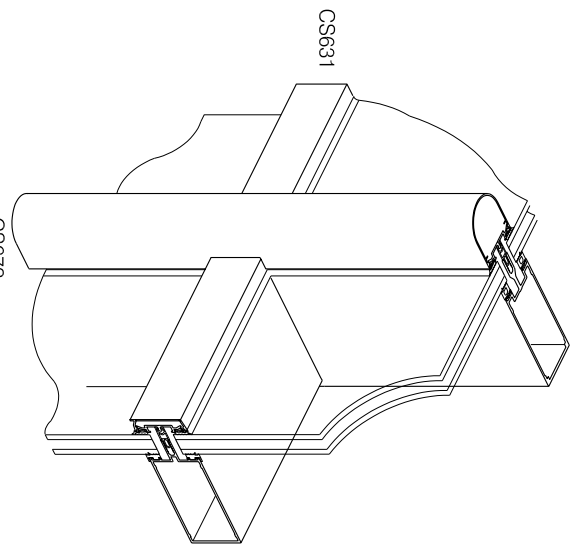
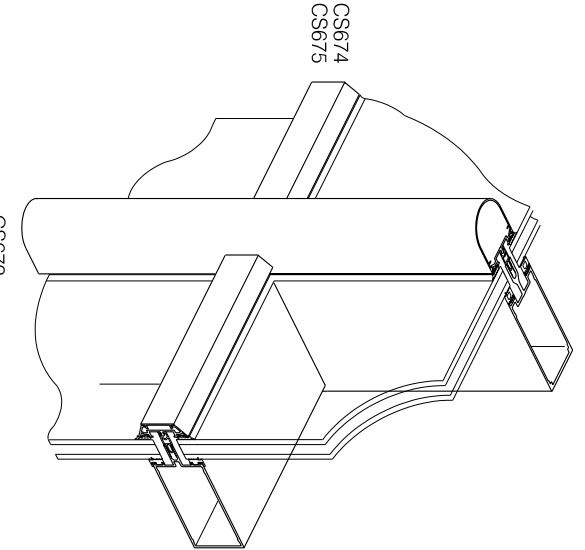
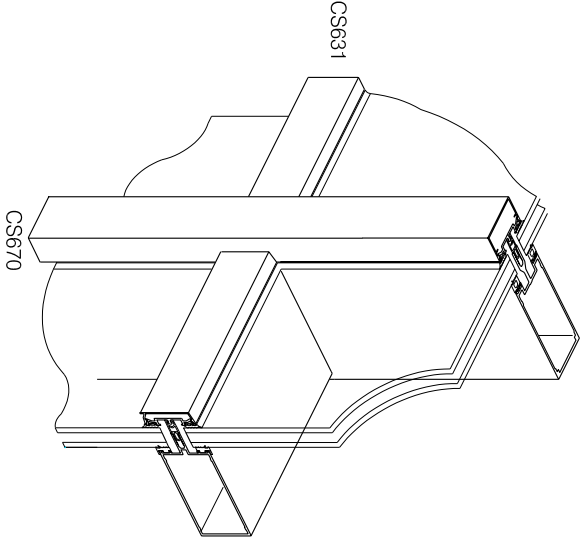
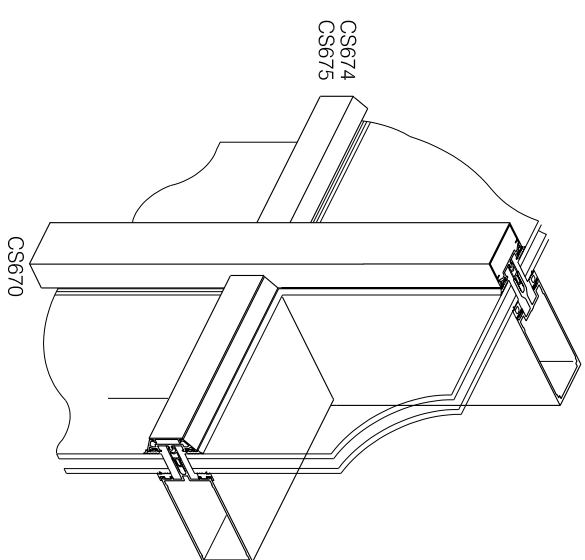
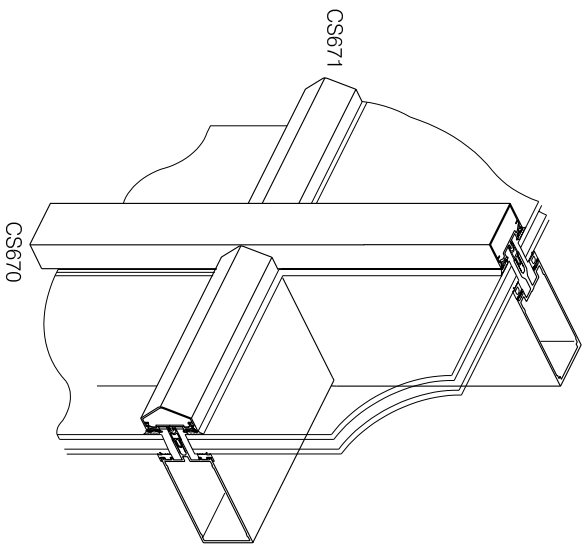
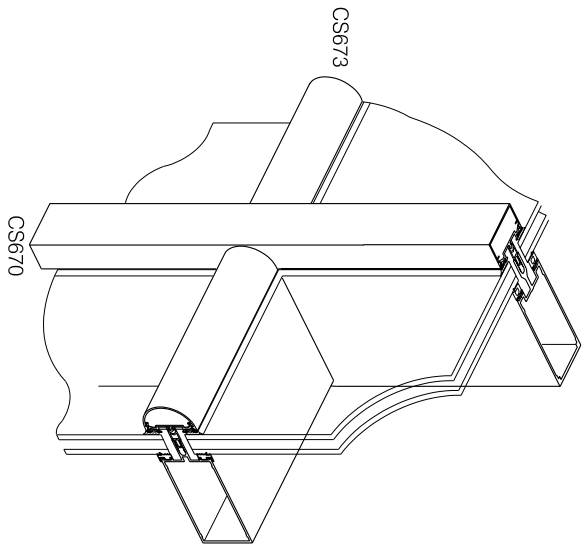
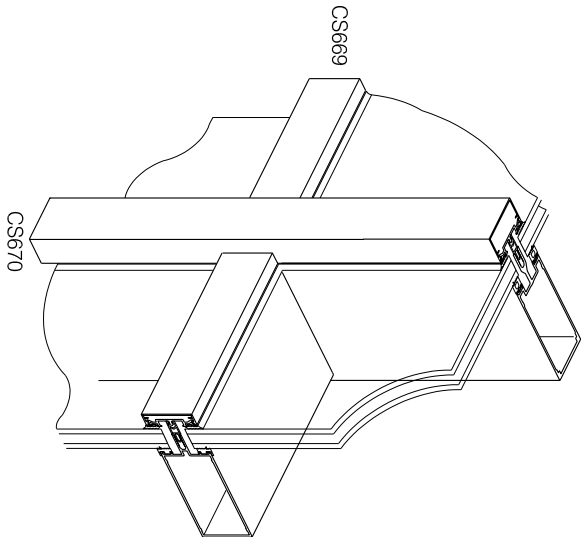
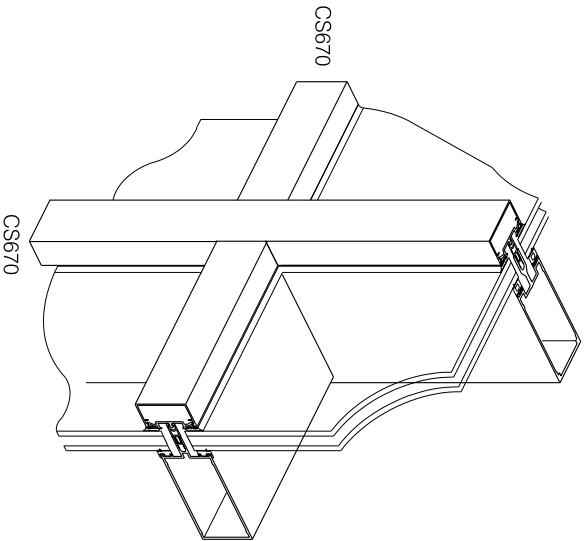
OBSOLETE



OBSOLETE

CS696
CURTAIN WALL
COVER CAP (100mm, MULLION)

CS697
CURTAIN WALL
COVER CAP (100mm, TRANSOM)



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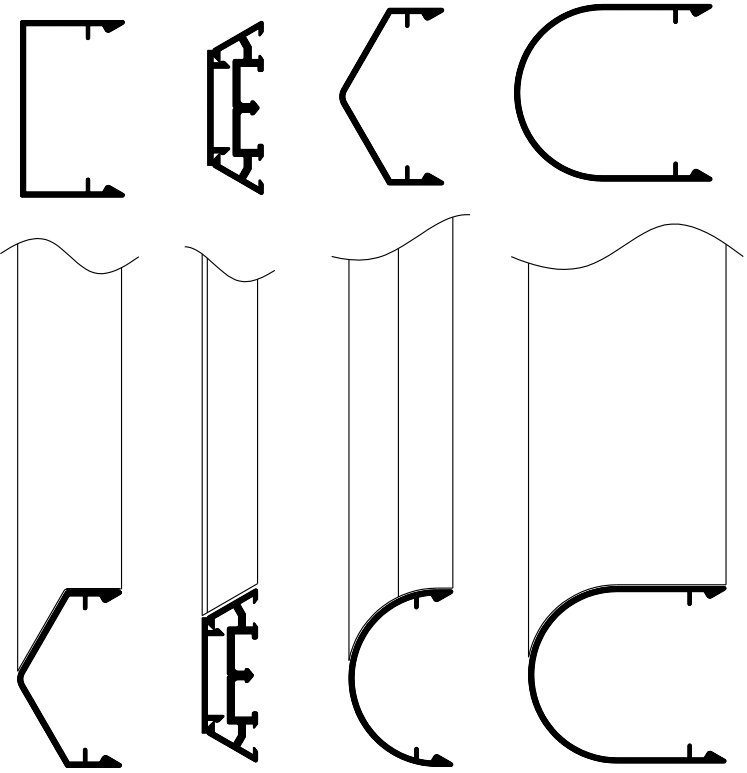
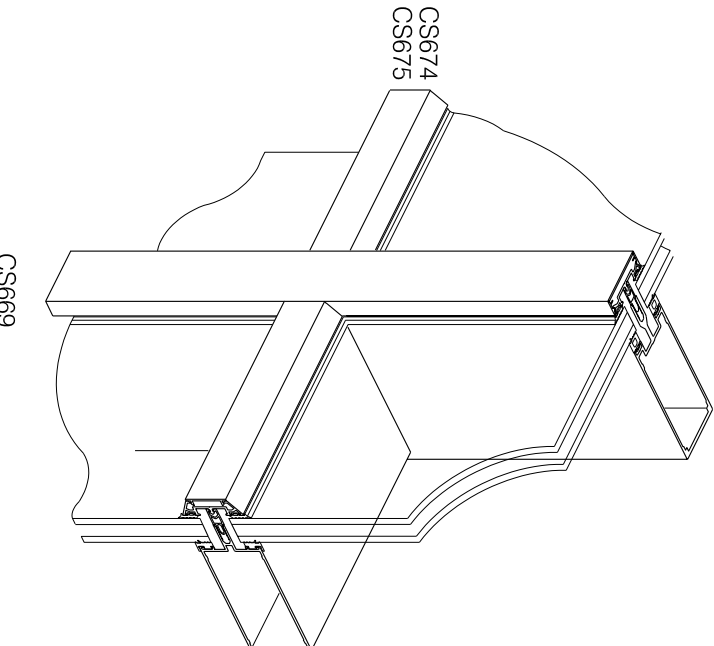
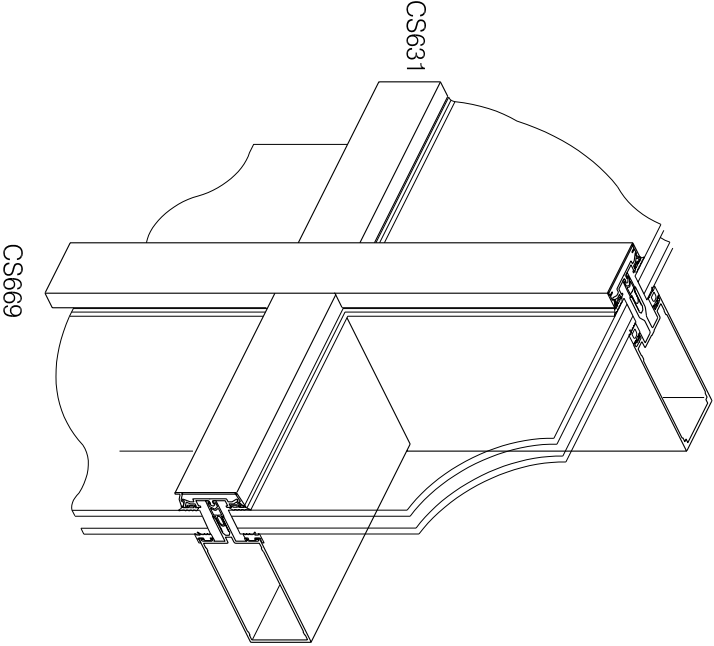
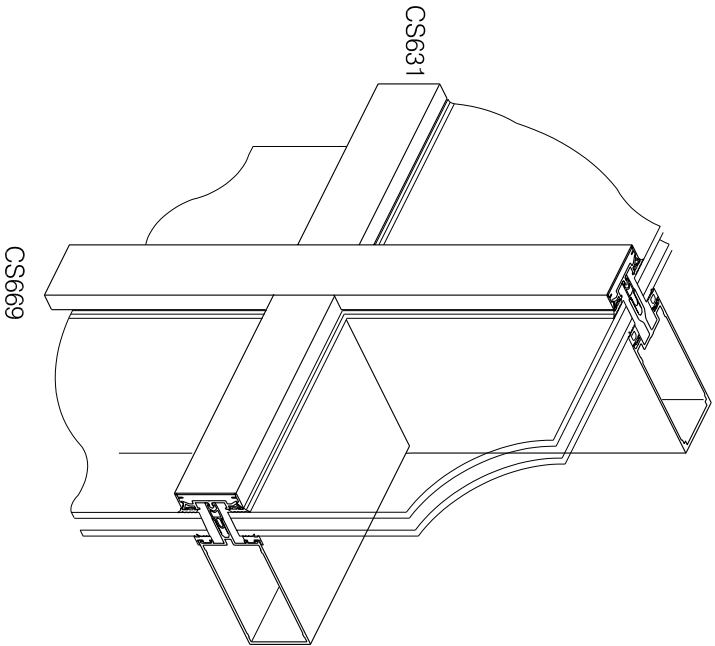
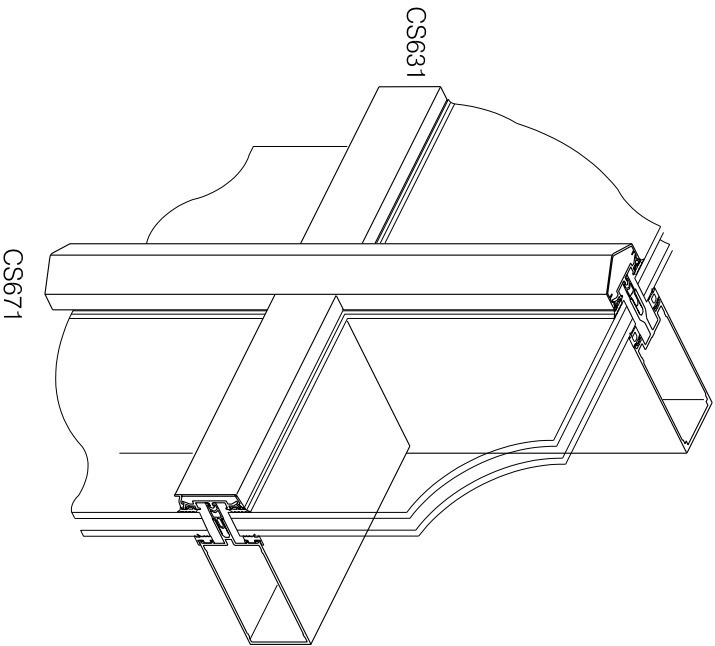


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CURTAIN WALLING
COMAR 6 STICK BUILD SYSTEM
FACADE DETAILS
CAPPING OPTIONS

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comar 6 Stick			
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"SPECIAL CASES"
TYPICAL ILLUSTRATIONS OF HOW HORIZONTAL
CAPS MUST BE CUT TO SUIT VERTICAL CAPS.



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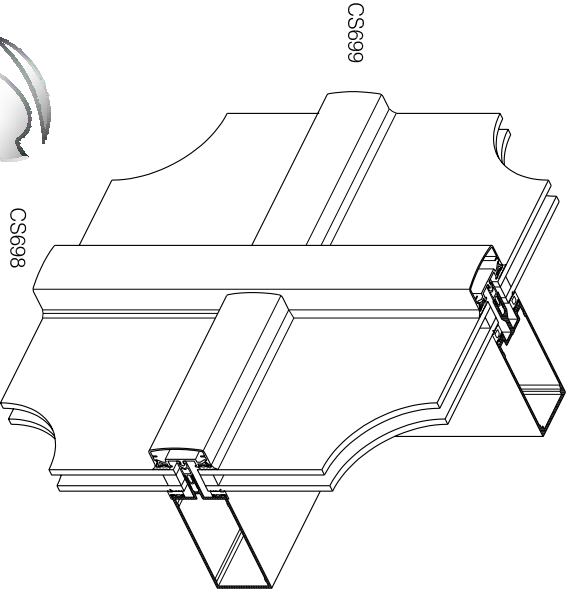
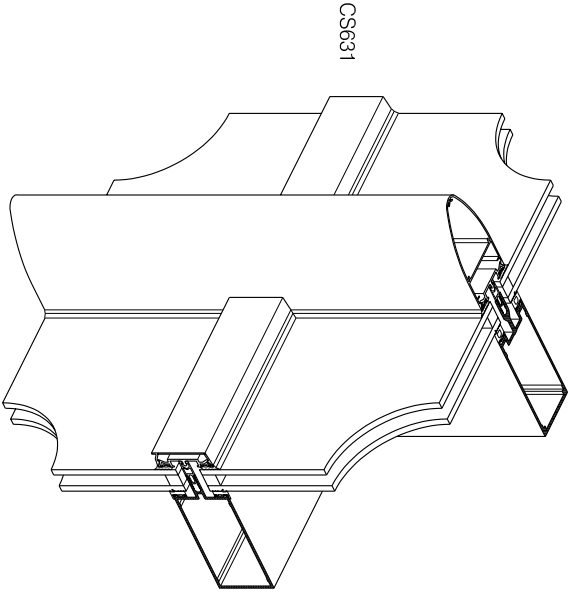
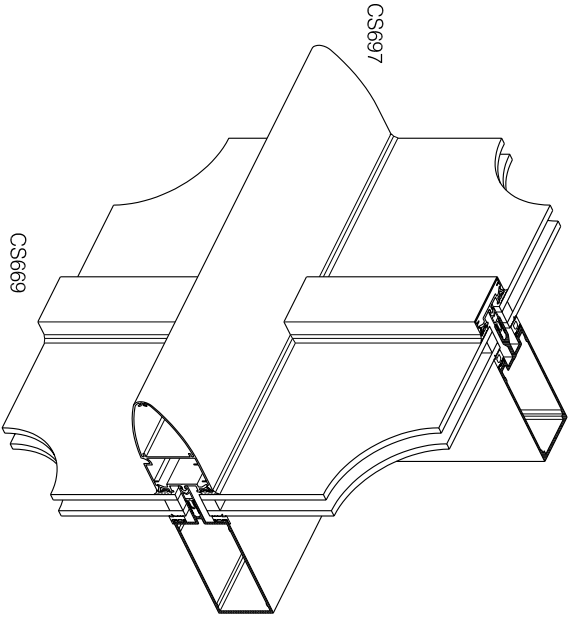


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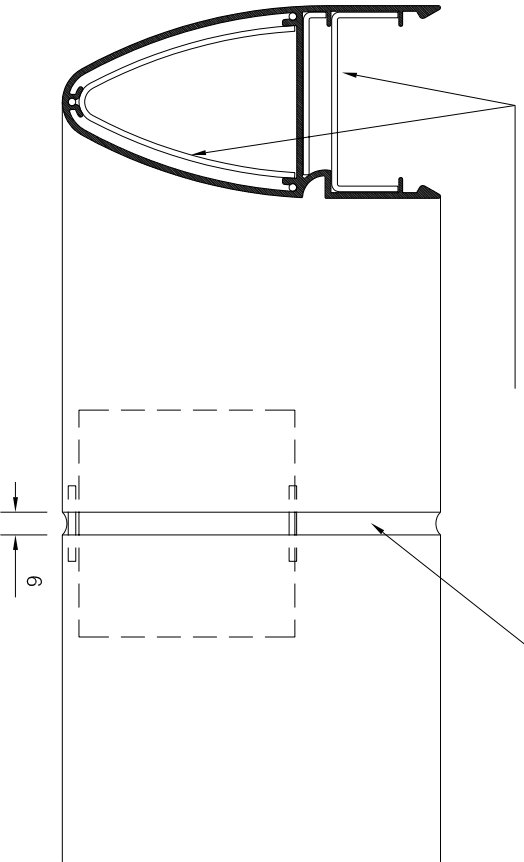
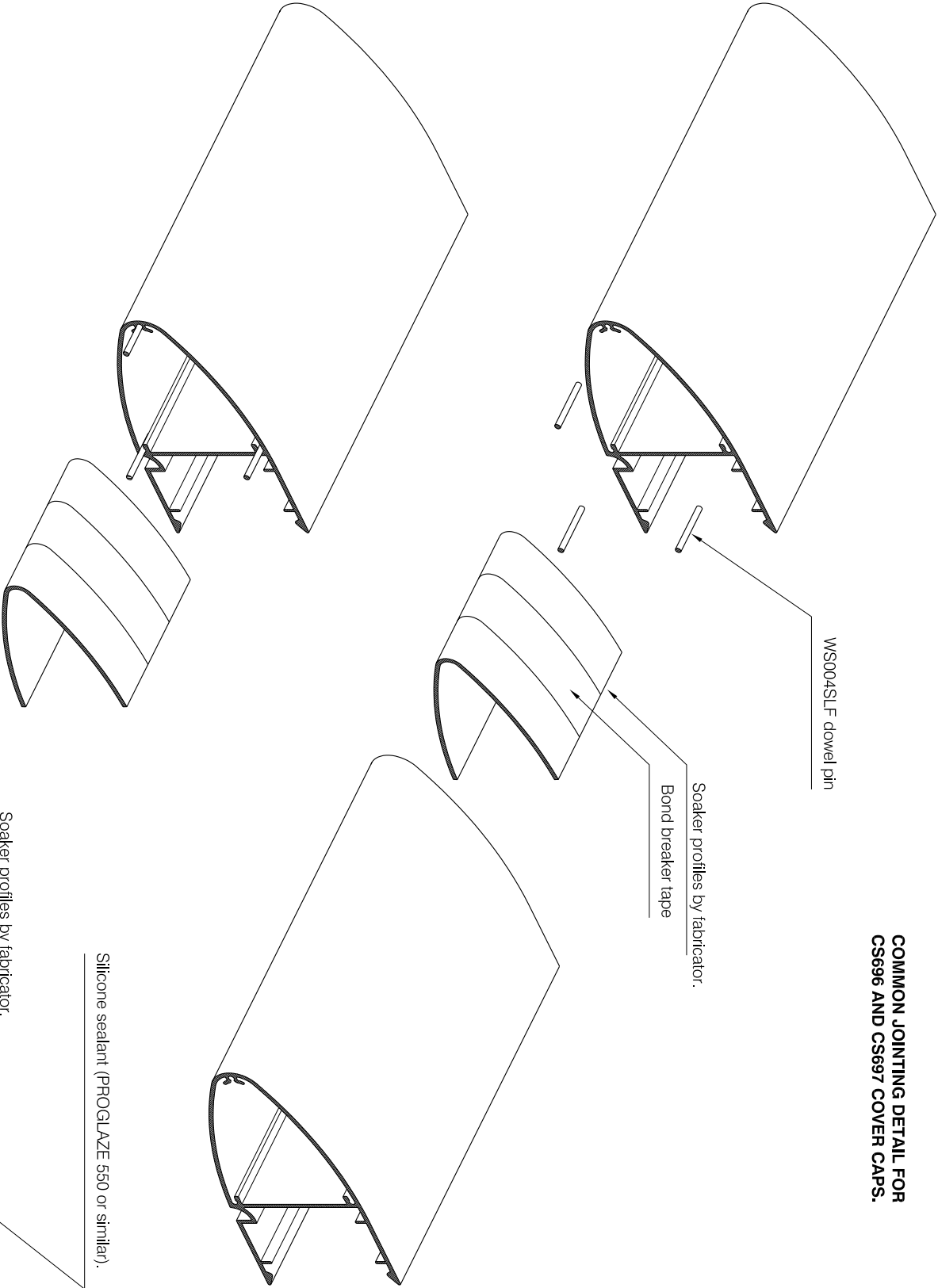
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COMAR 6 STICK BUILD SYSTEM
FACADE DETAILS
CAPPING OPTIONS

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COMMON JOINTING DETAIL FOR
CS696 AND CS697 COVER CAPS.



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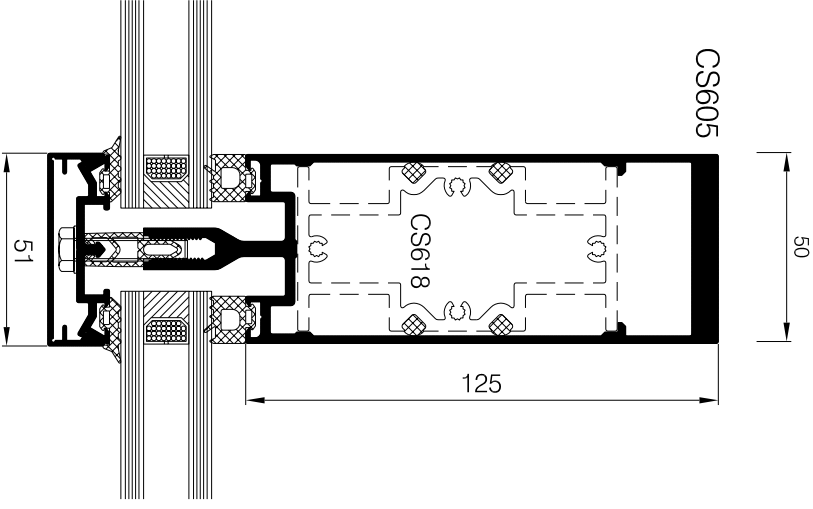
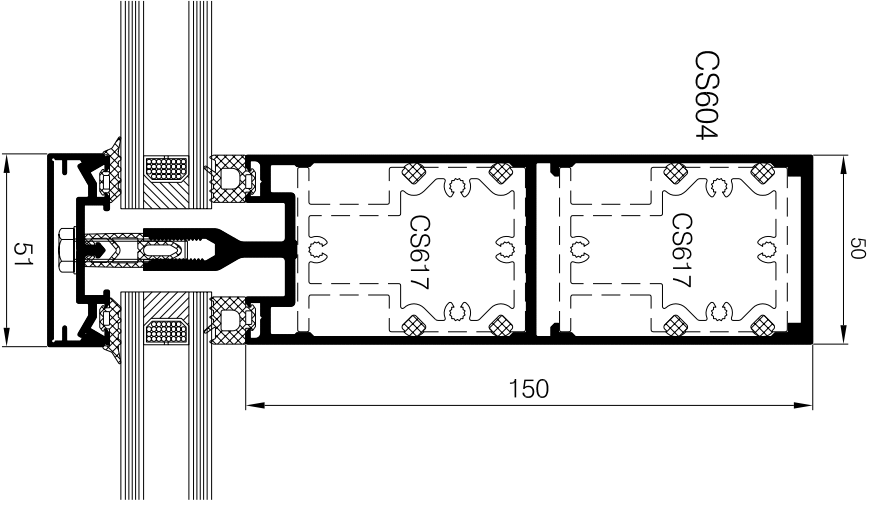
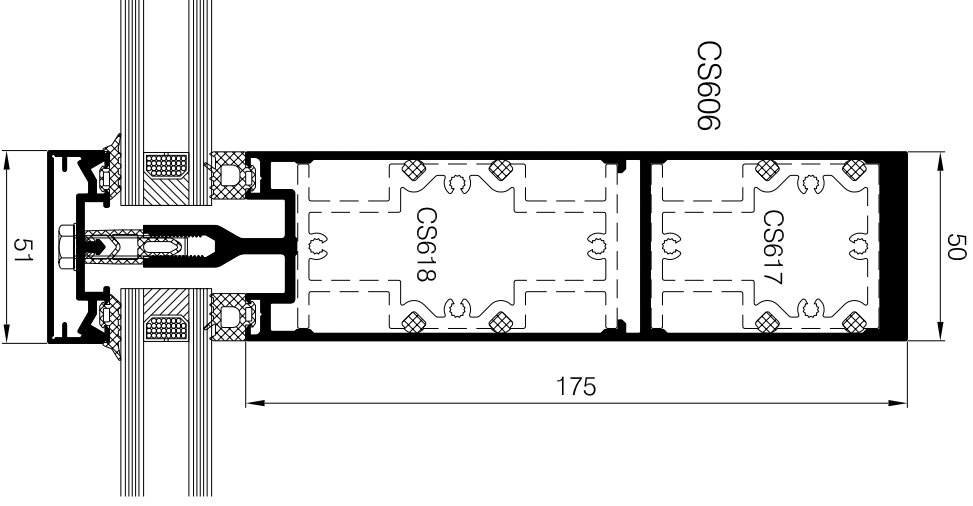
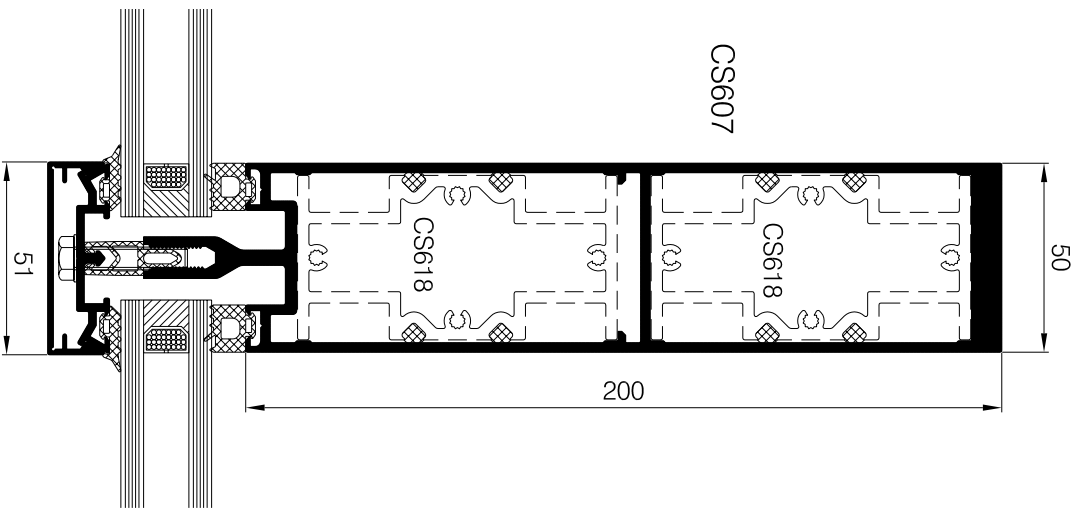
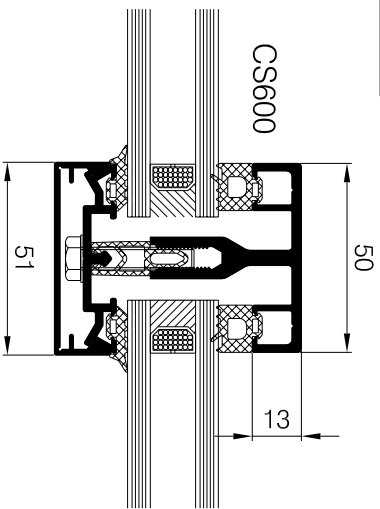
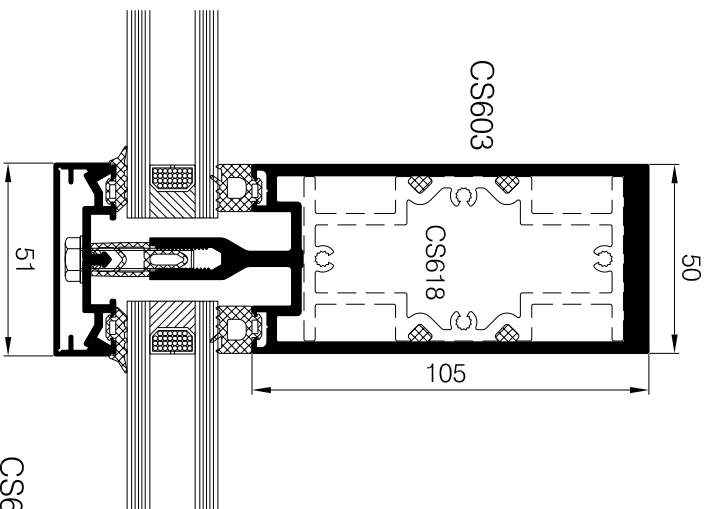
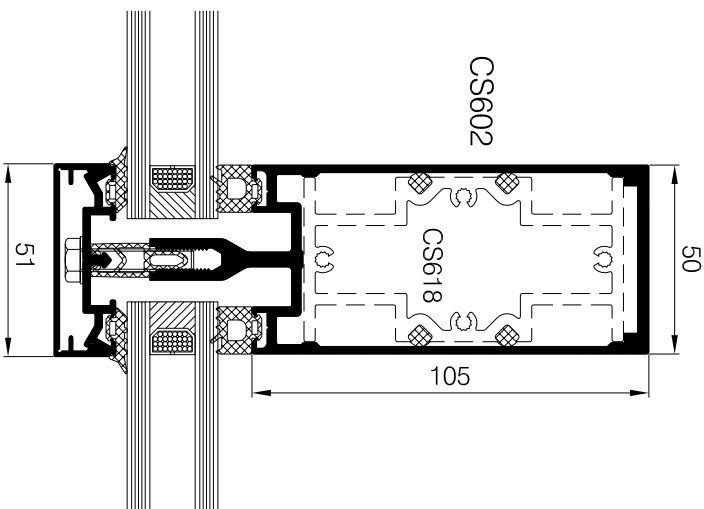
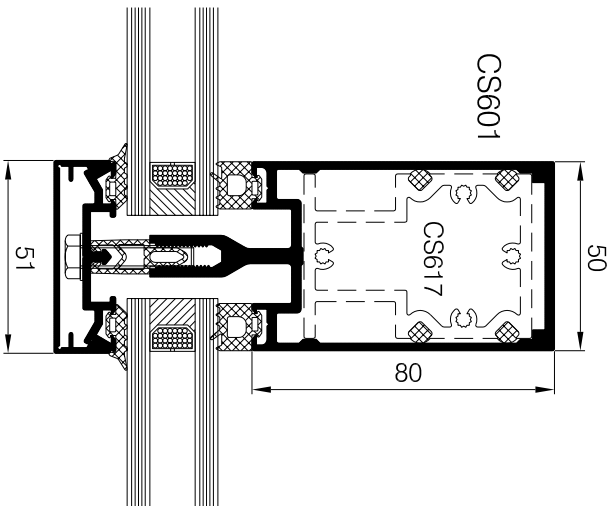
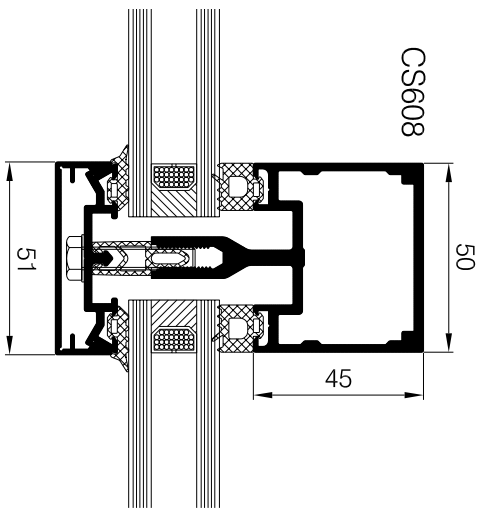


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CURTAIN WALLING
COMAR 6 STICK BUILD SYSTEM
FACADE DETAILS
CAPPING OPTIONS AND JOINTING DETAILS

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CURTAIN WALLING
COMAR 6 STICK BUILD SYSTEM
MULLION SECTIONS
SPIGOT DETAILS

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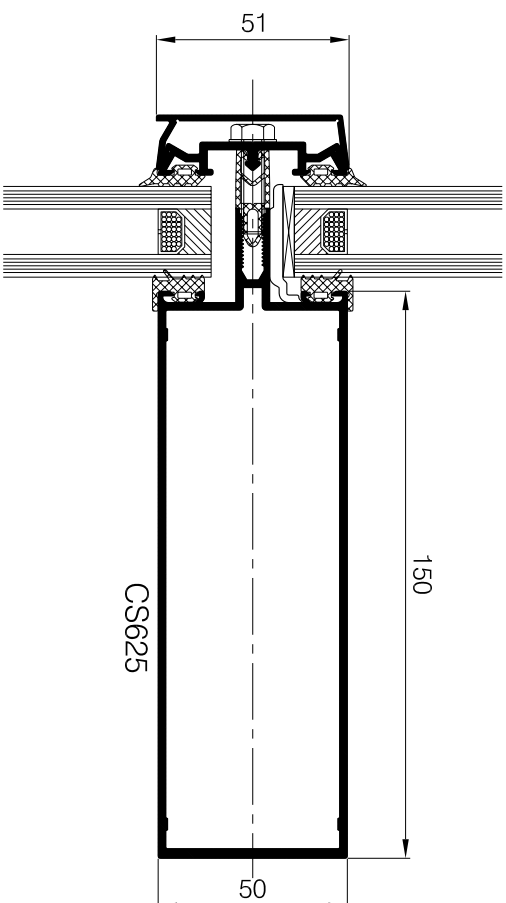
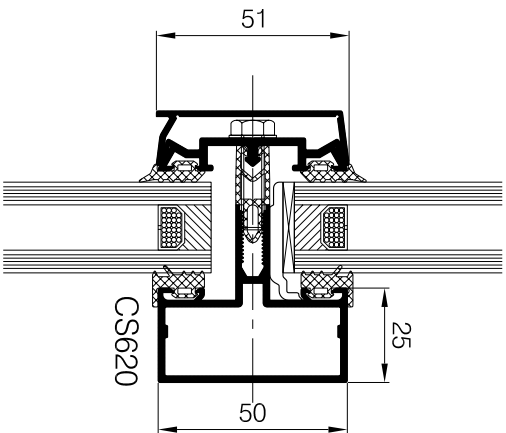
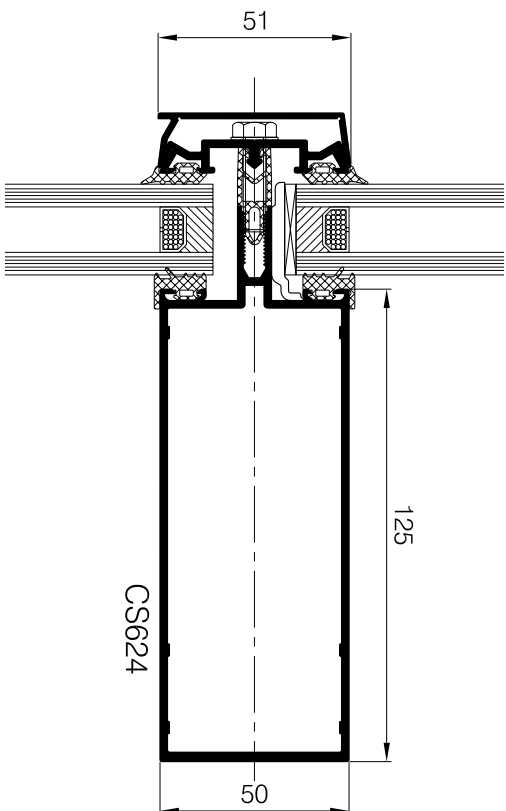
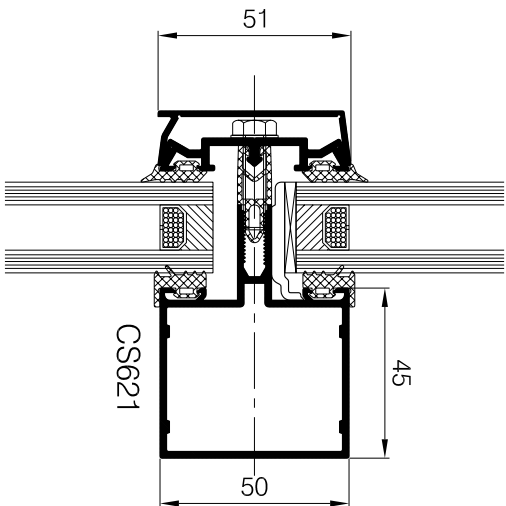
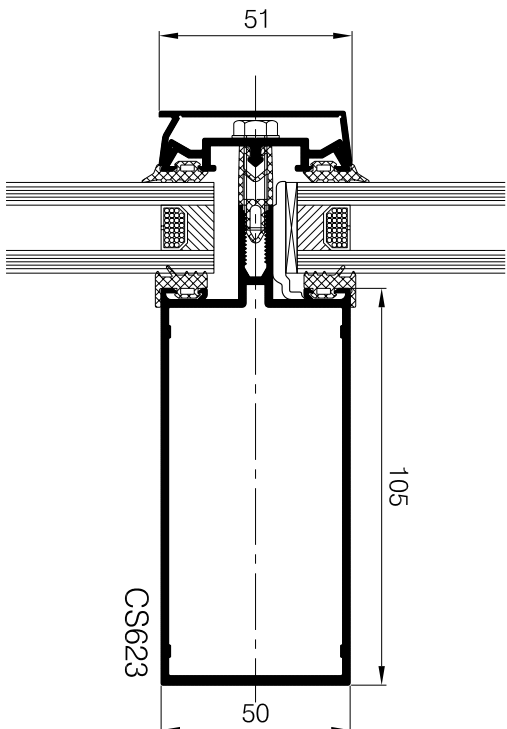
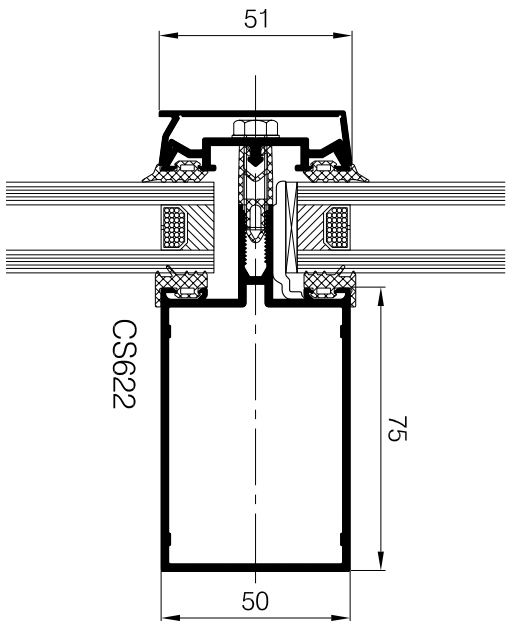
ARCHITECTURAL ALUMINIUM SYSTEMS



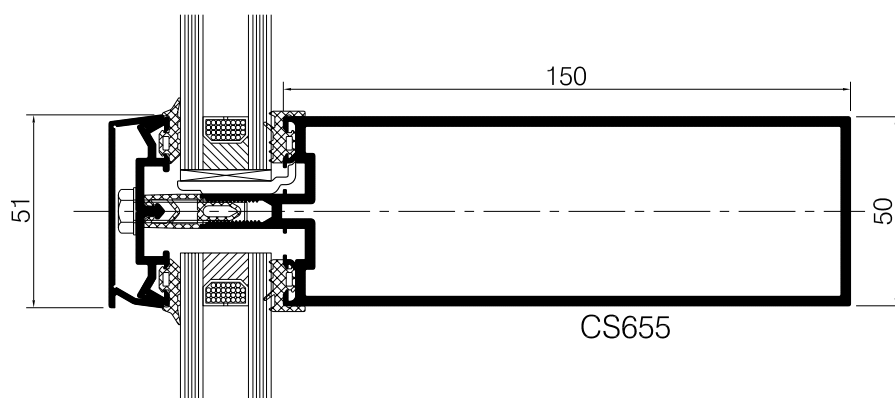
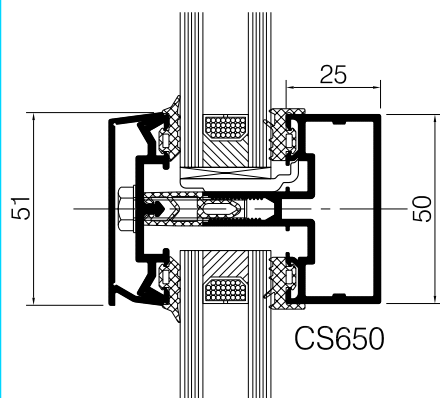
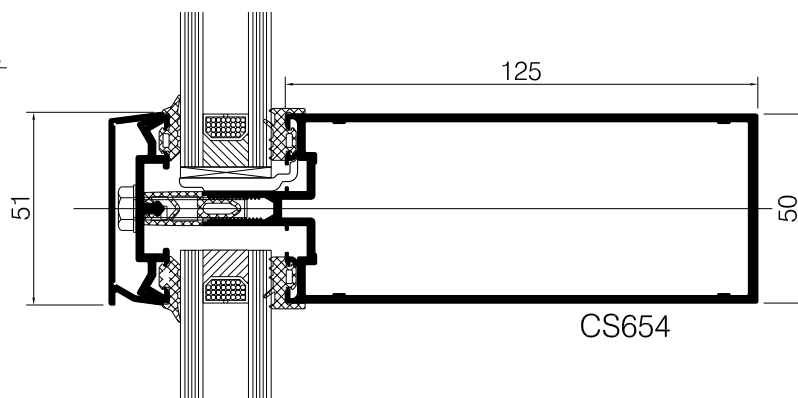
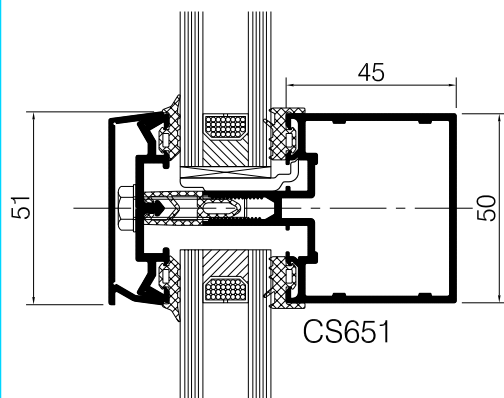
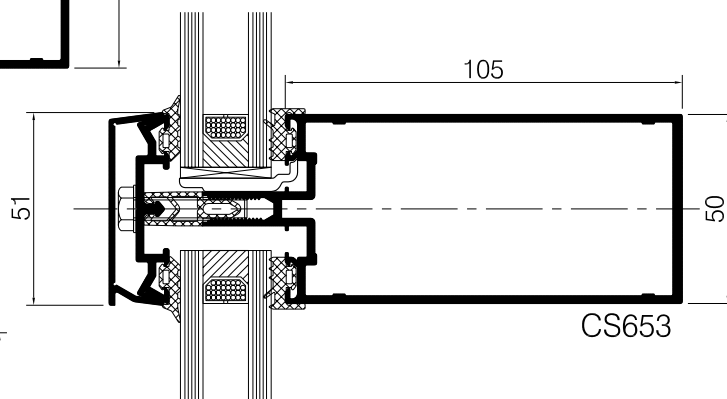
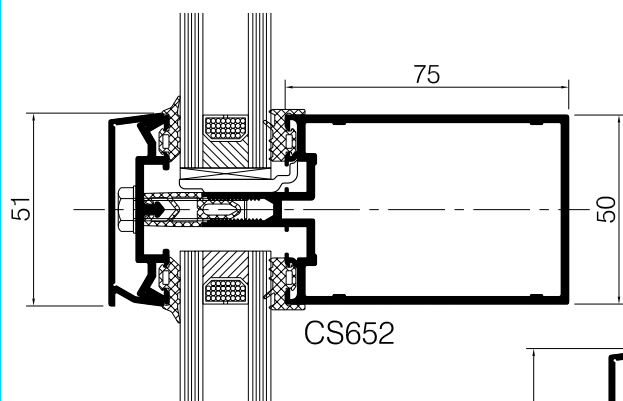
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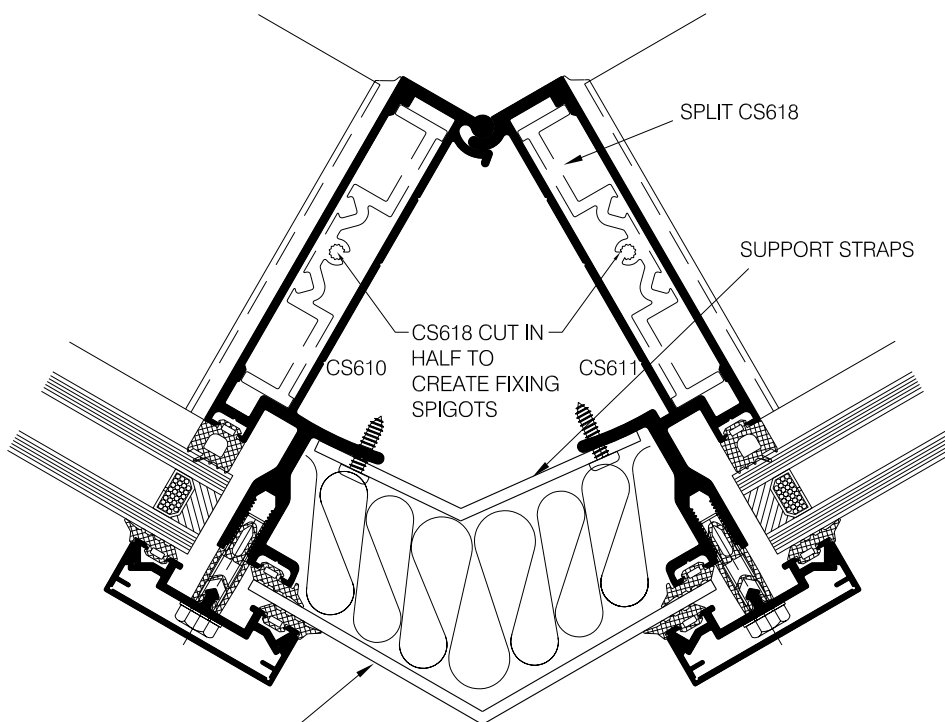
CURTAIN WALLING
COMAR 6 STICK BUILD SYSTEM
TRANSOM DETAILS
STEP CUT

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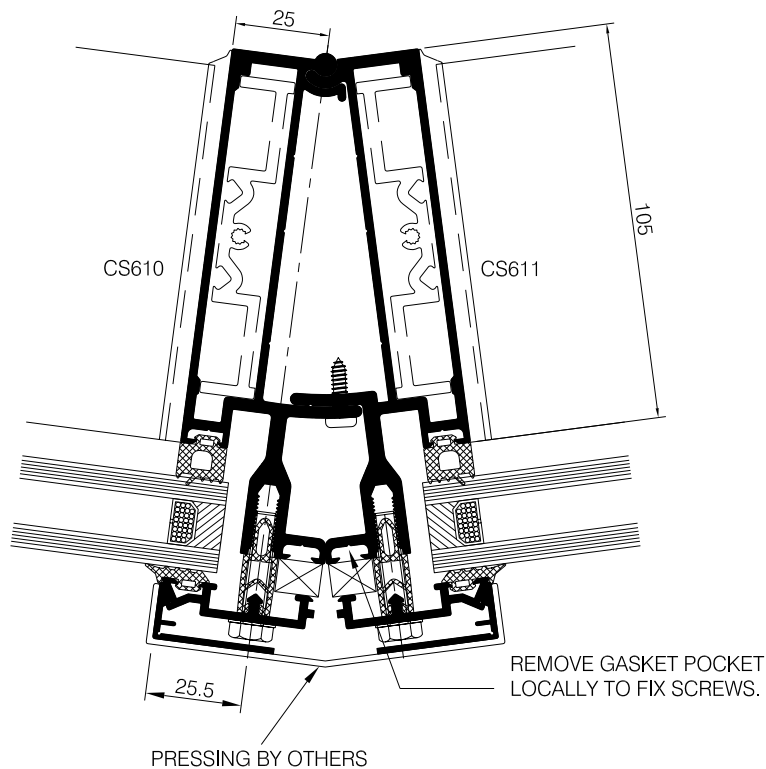


comar 6 Stick			
DRAWN	AF (NH)	SCALE	1:2 @A3
DATE	13/10/06	DWG. No.	C6-SB-1.10 R 1





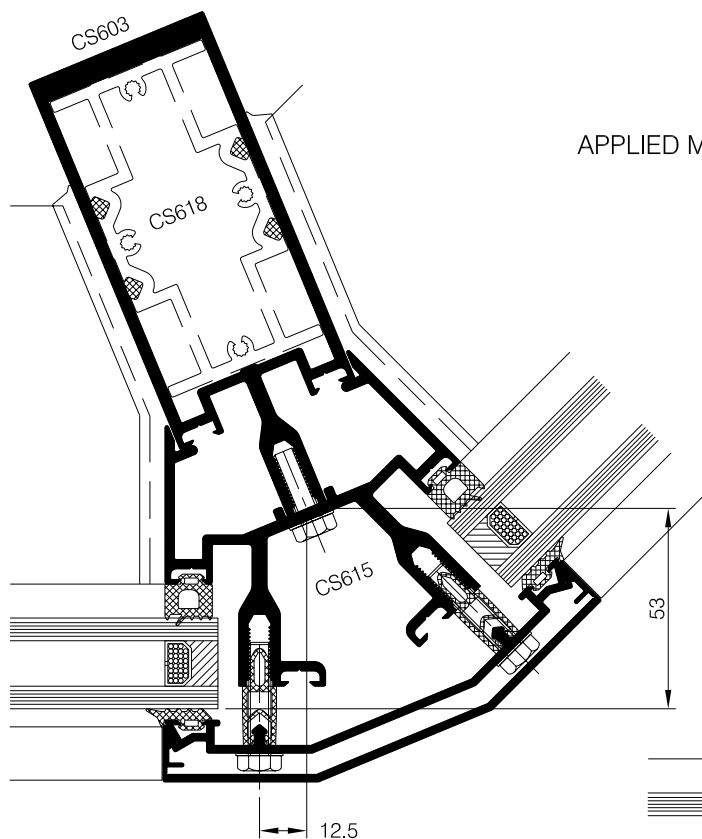
INSULATION AND PRESSING BY OTHERS



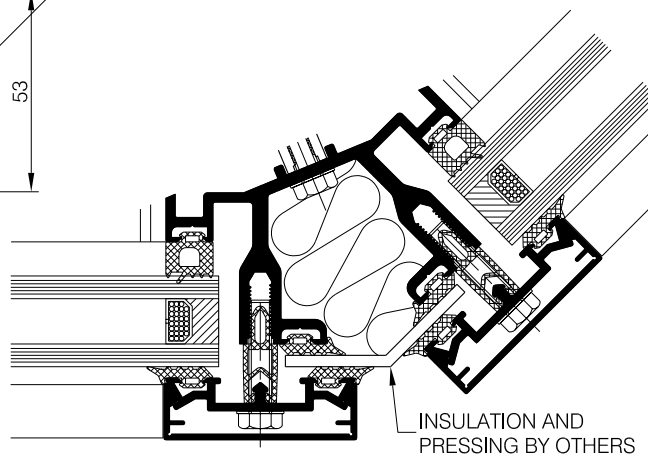
PRESSING BY OTHERS

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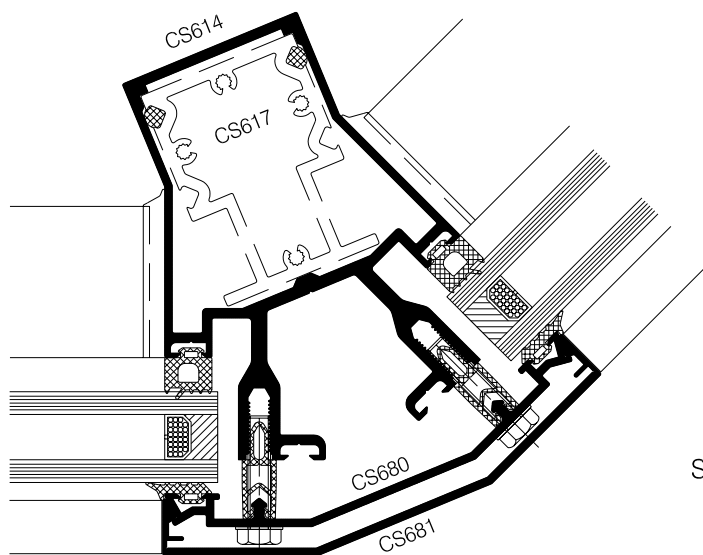




APPLIED MULLION 135° CORNER SECTION DETAIL

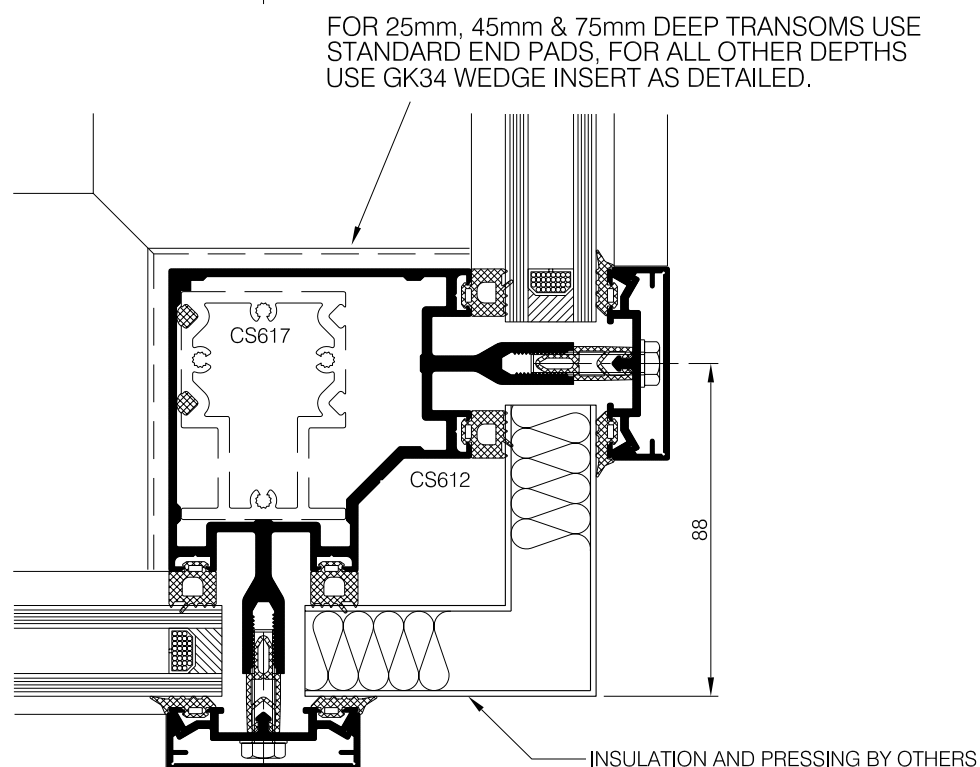
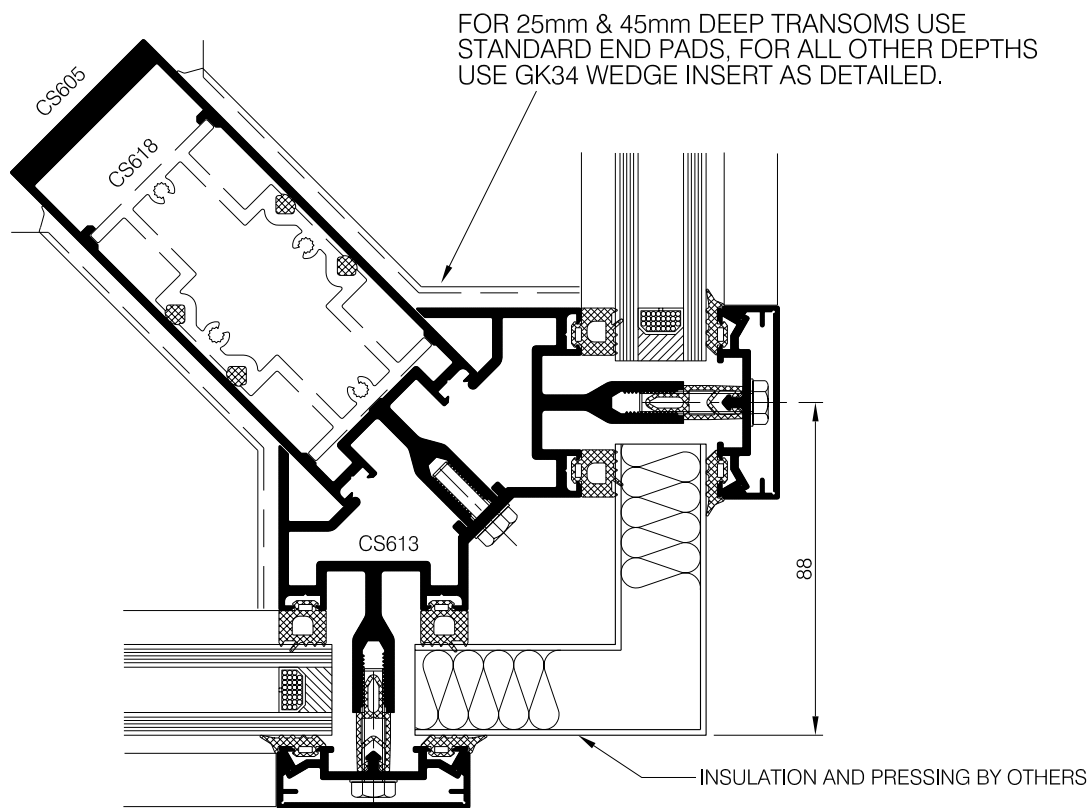


ALTERNATIVE CAPPING DETAIL



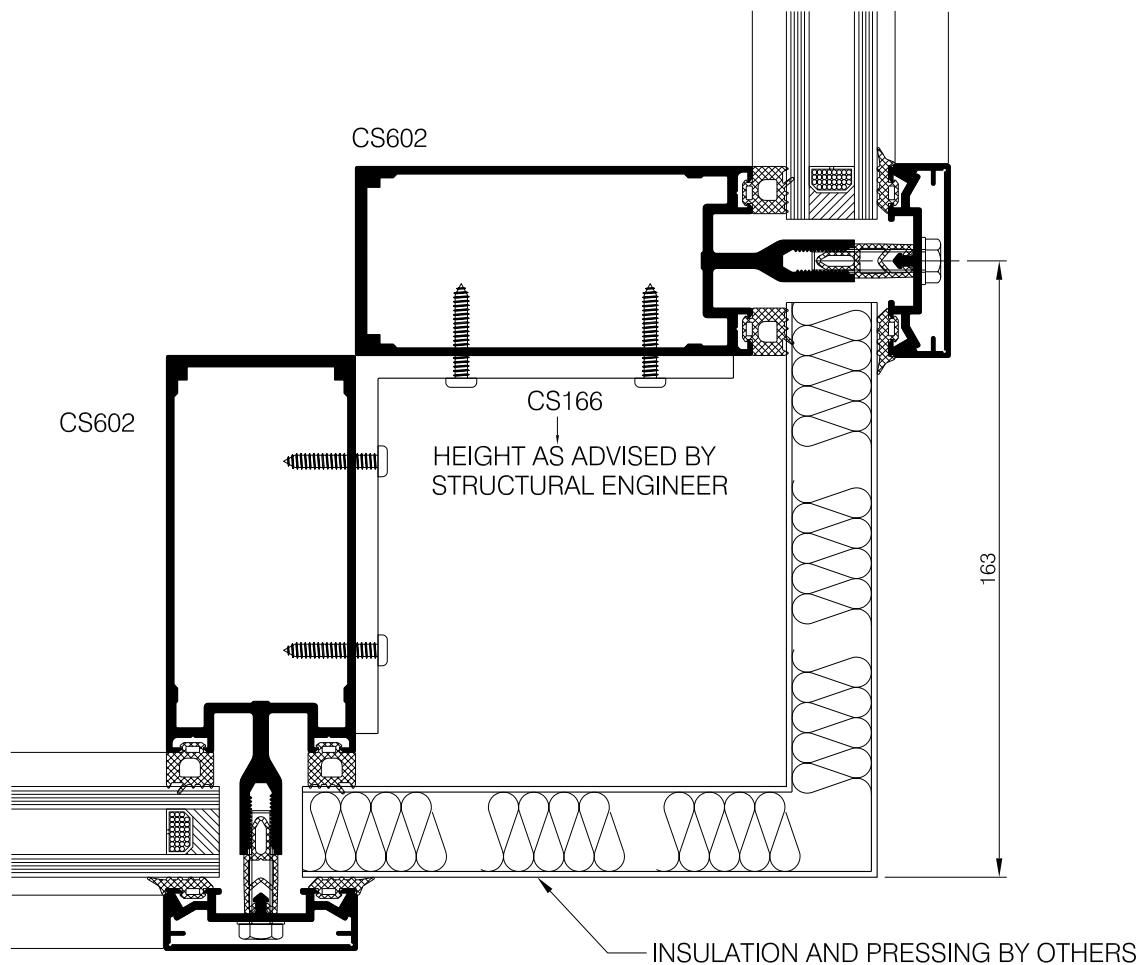
SMALL 135° CORNER MULLION DETAIL





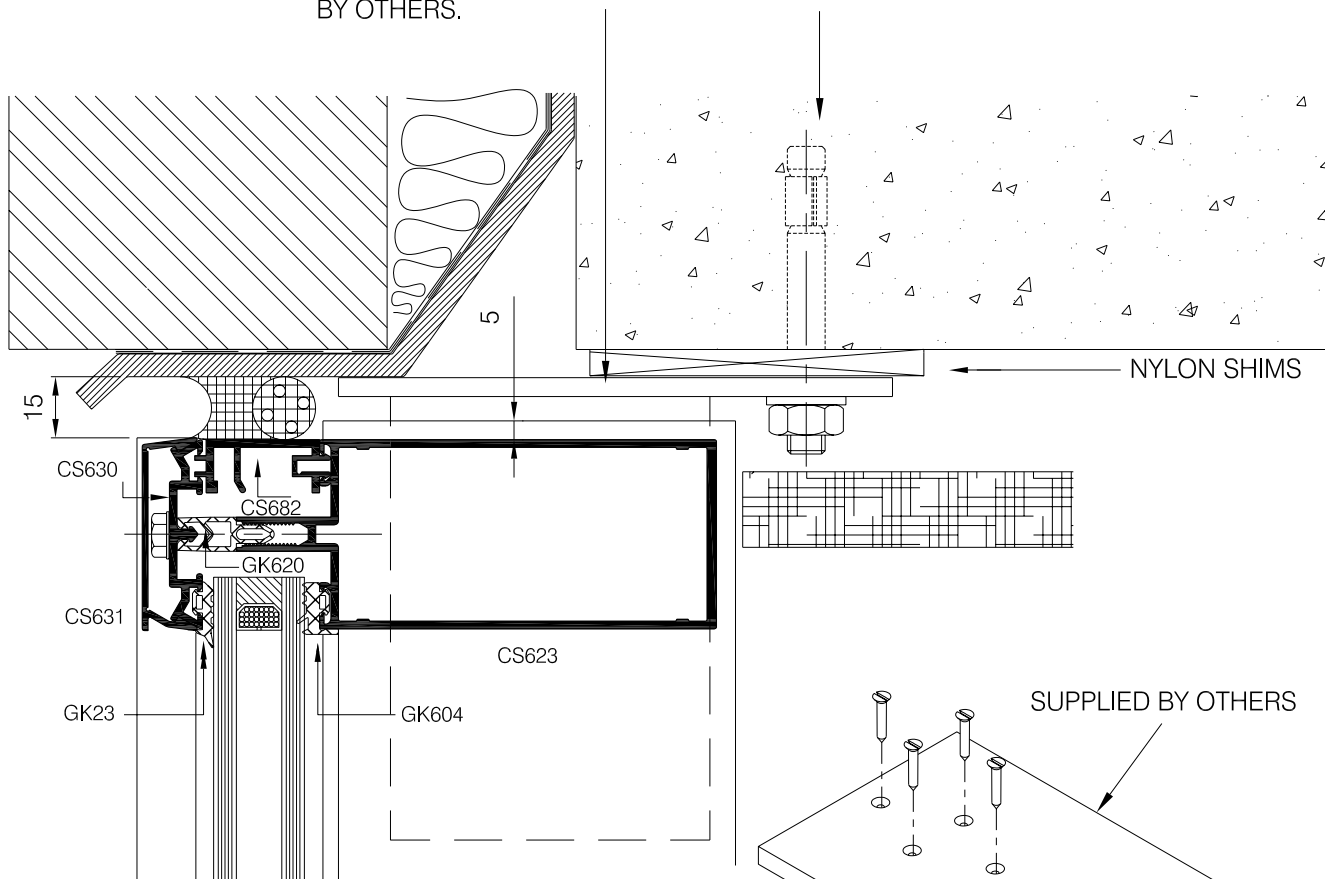
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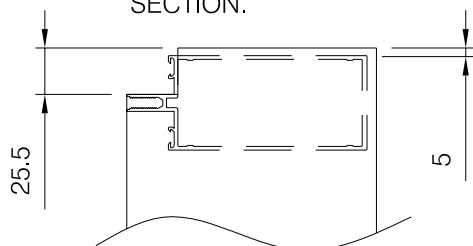


HEAD FIXING BRACKET
CONSTRUCTED FROM MULLION
SLEEVE & ALUMINIUM FLAT PLATE.
ALUMINIUM FLAT PLATE SUPPLIED
BY OTHERS.

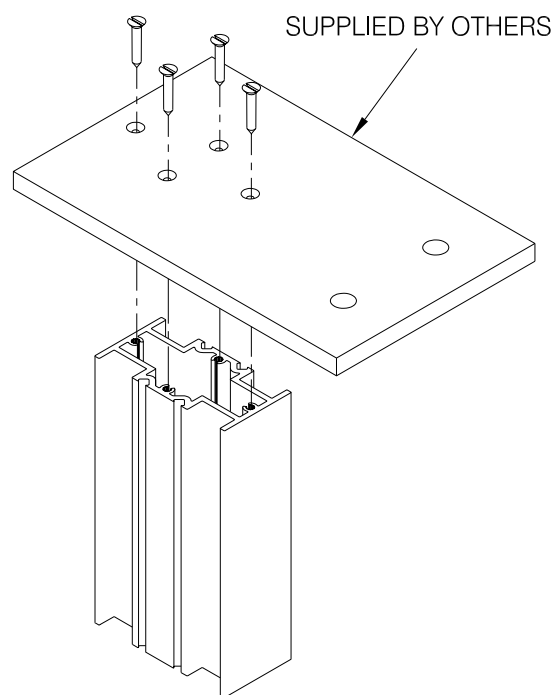
ANCHOR BOLT TO
STRUCTURAL
ENGINEERS
SPECIFICATION.



NOTCH MULLION AS
SHOWN TO ACCOMMODATE
FIXING OF CONTINUOUS
PERIMETER CLOSING
SECTION.



TYPICAL OVERLAP OF
MULLION TO ALLOW
FOR FITTING OF EPDM
TRANSOM END PADS.

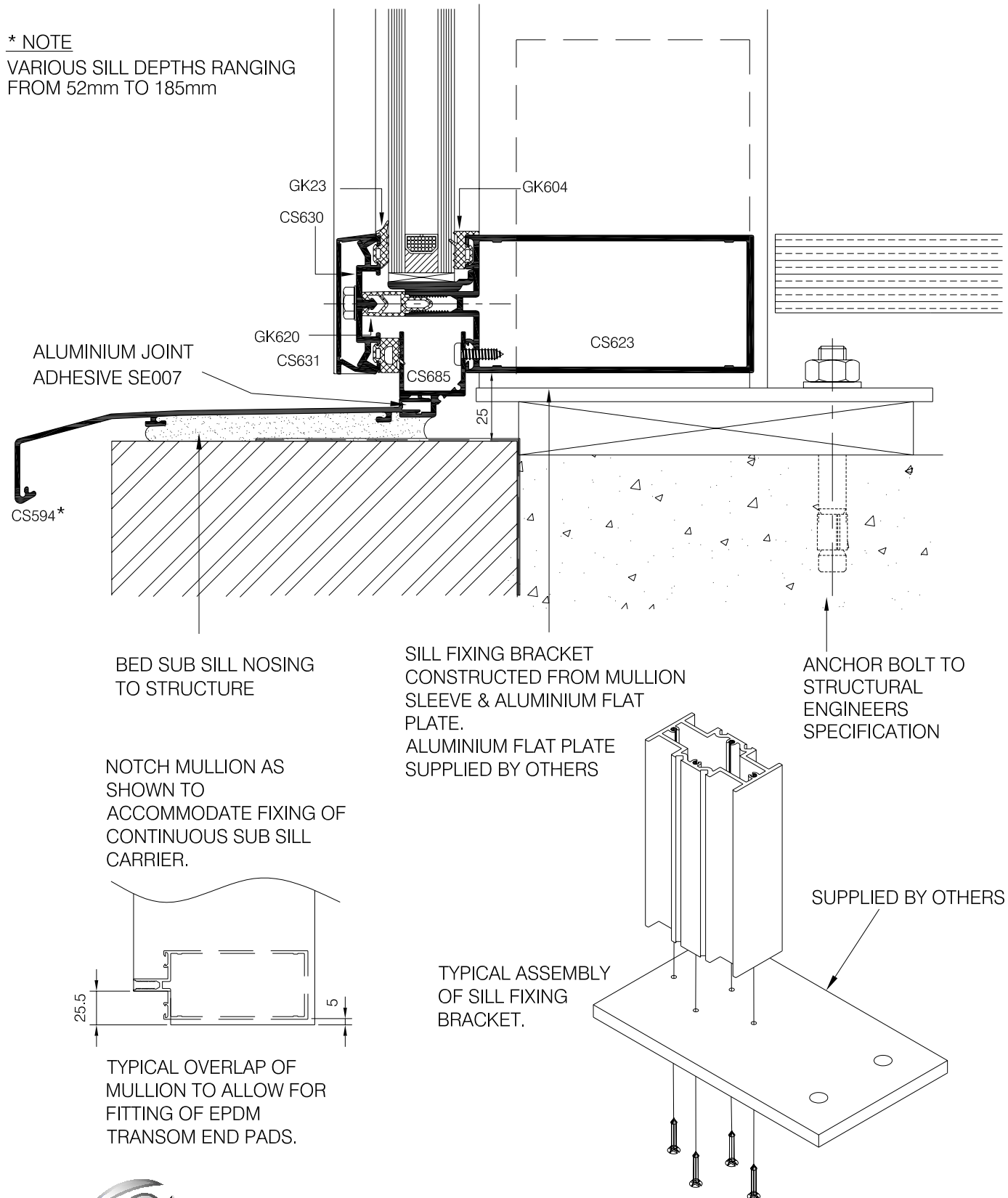


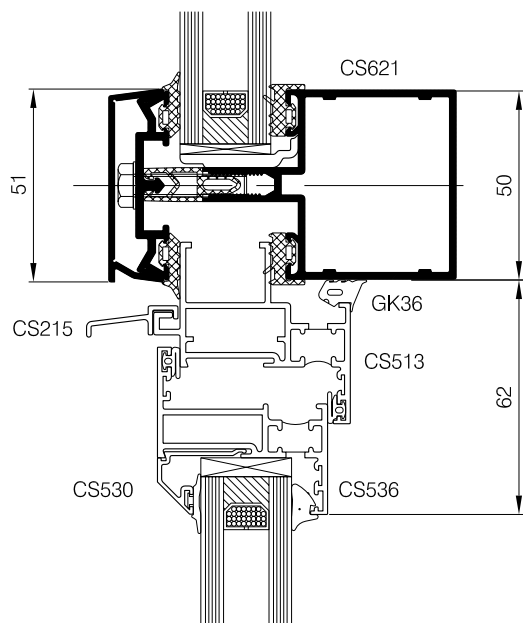
TYPICAL ASSEMBLY OF
HEAD FIXING BRACKET.



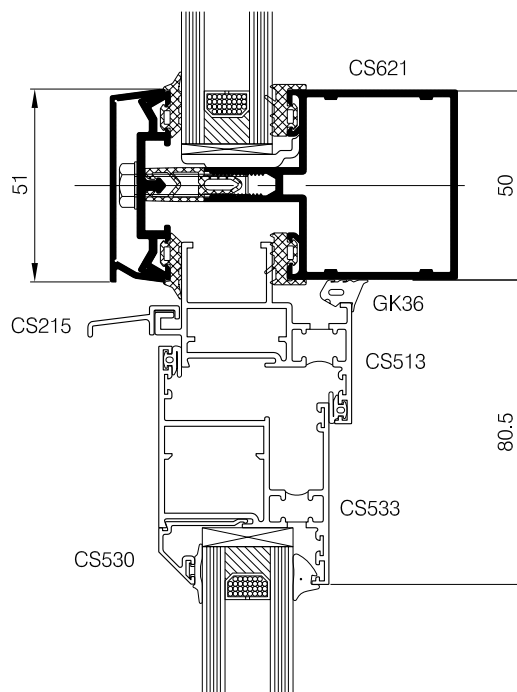
*** NOTE**

VARIOUS SILL DEPTHS RANGING
FROM 52mm TO 185mm

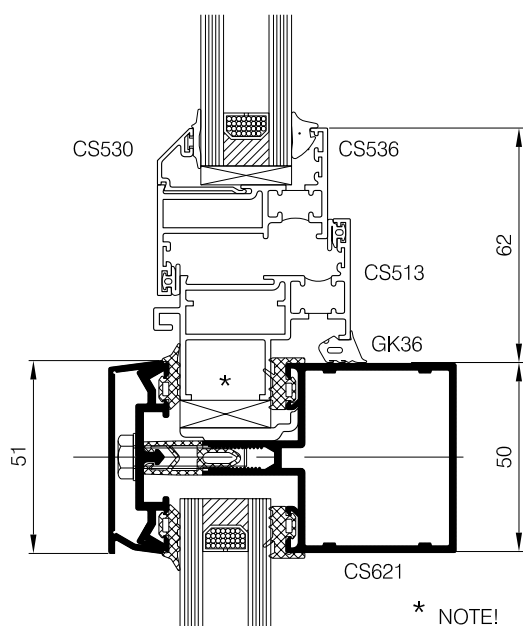




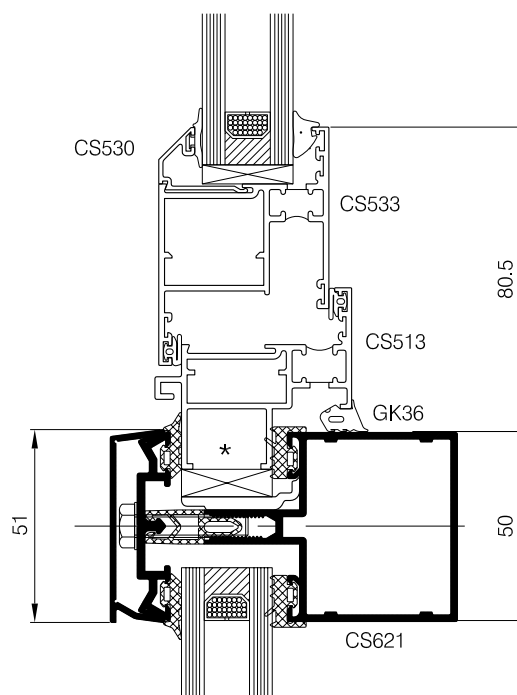
TOP / SIDE PROJECTED / HUNG
45mm WINDOW SYSTEM
EXTERNALLY BEADED

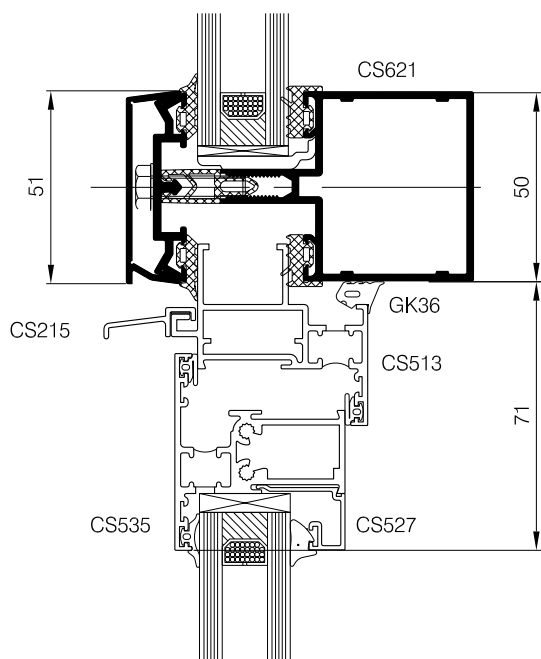


TOP / SIDE PROJECTED / HUNG
45mm WINDOW SYSTEM
EXTERNALLY BEADED

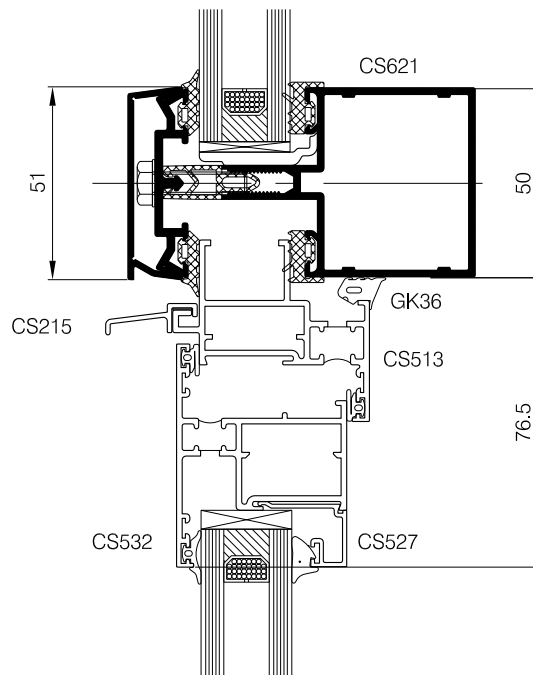


* NOTE!
FRAME PACKER TO BE 7mm THICK.

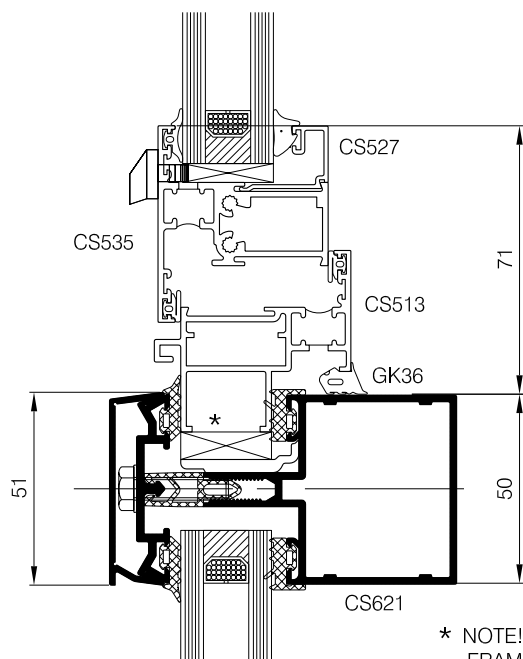




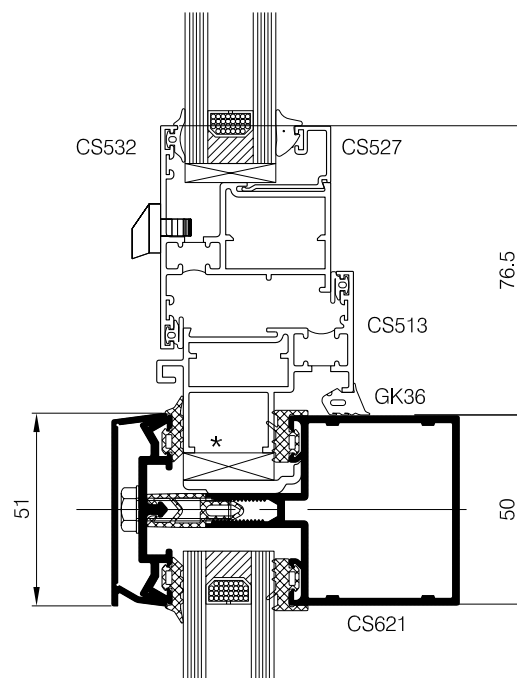
TOP / SIDE PROJECTED / HUNG
45mm WINDOW SYSTEM
INTERNALLY BEADED

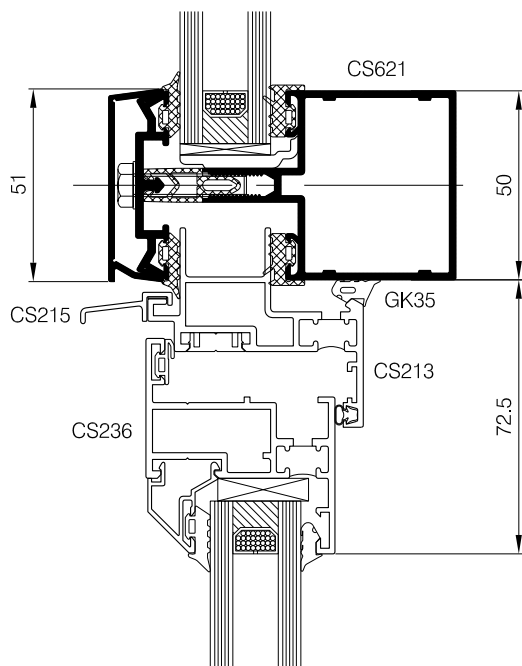


TOP / SIDE PROJECTED / HUNG
45mm WINDOW SYSTEM
INTERNALLY BEADED

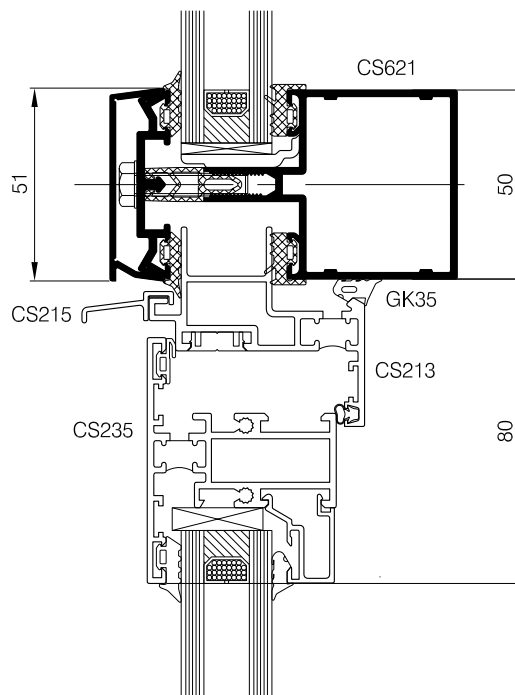


* NOTE!
FRAME PACKER TO BE 7mm THICK.

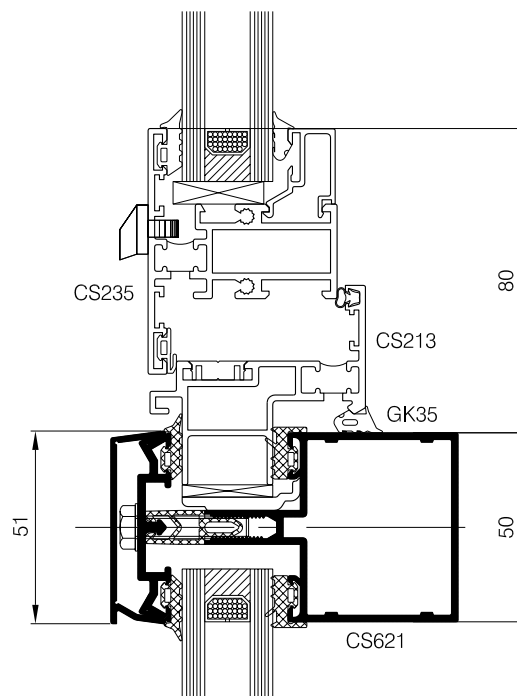
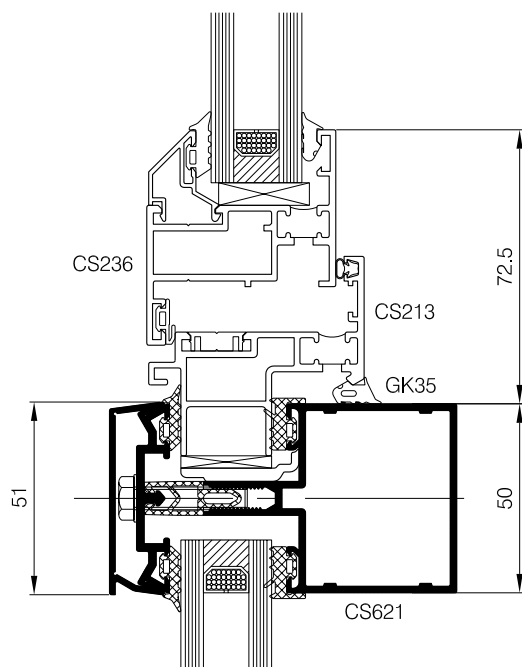


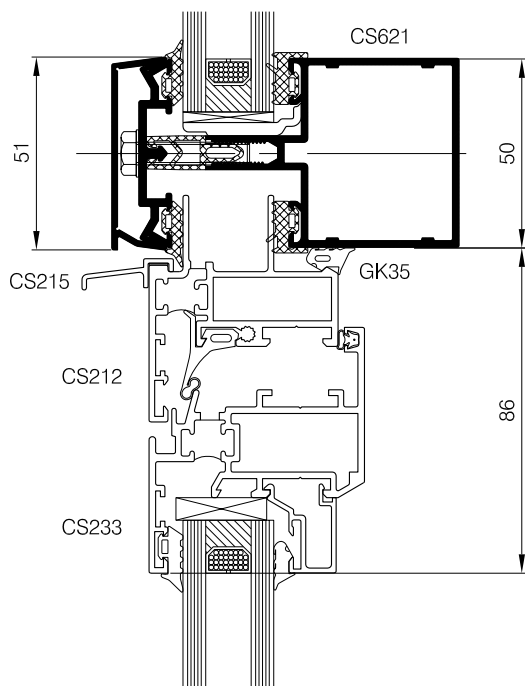


TOP / SIDE PROJECTED / HUNG
50mm WINDOW SYSTEM
EXTERNALLY BEADED

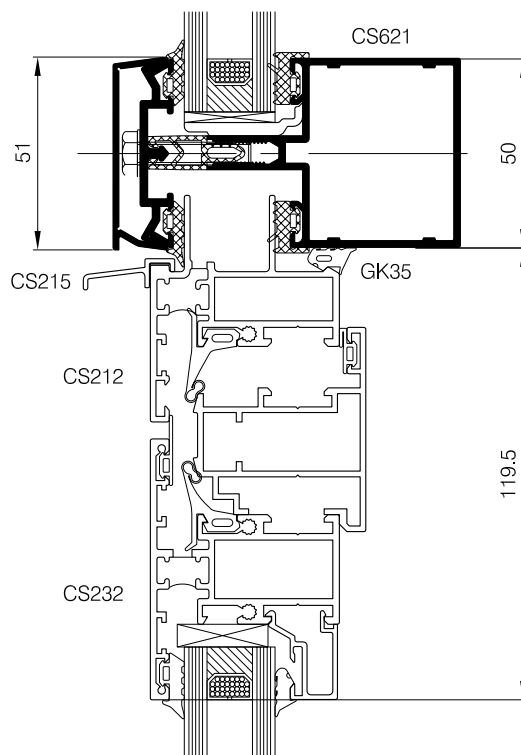


TOP / SIDE PROJECTED / HUNG
50mm WINDOW SYSTEM
INTERNALLY BEADED

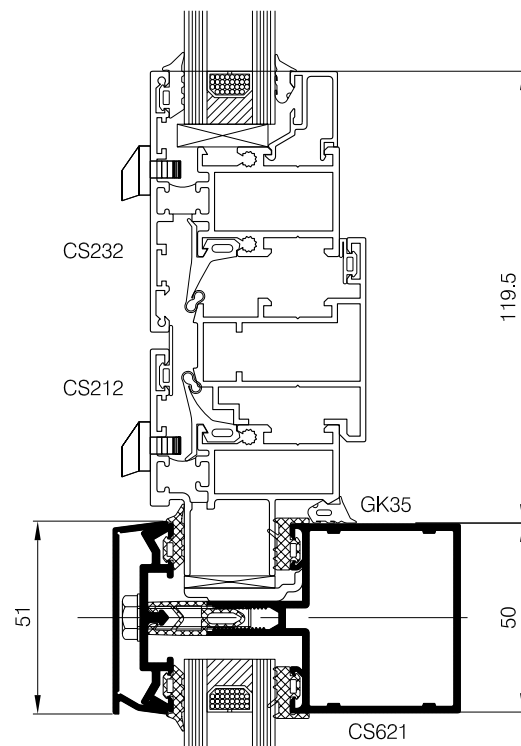
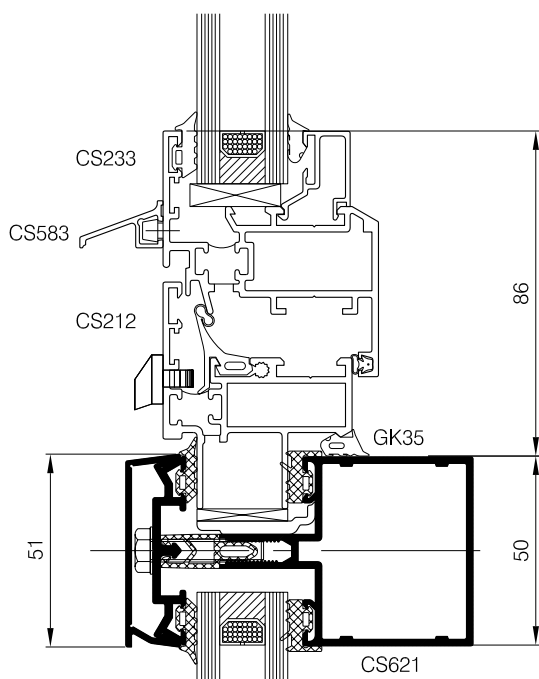




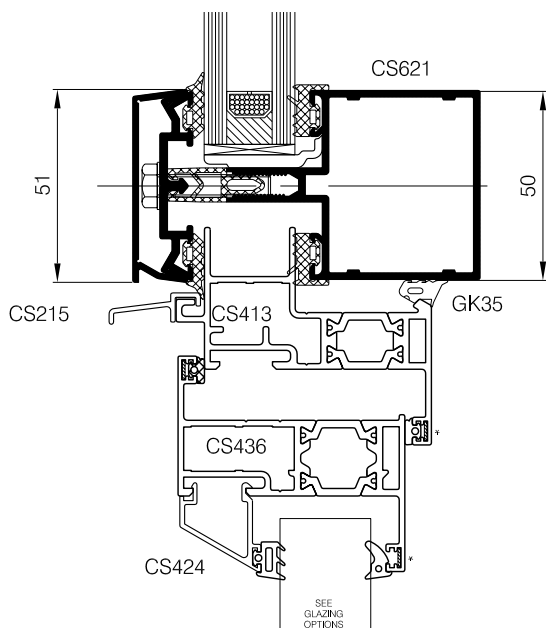
TILT TURN / INWARD OPENING CASEMENT
50mm WINDOW SYSTEM
INTERNALLY BEADED



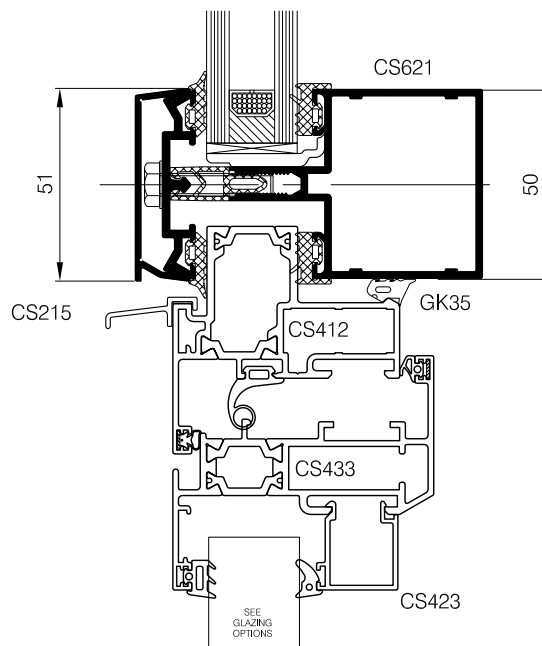
REVERSIBLE PIVOT
50mm WINDOW SYSTEM
INTERNALLY BEADED



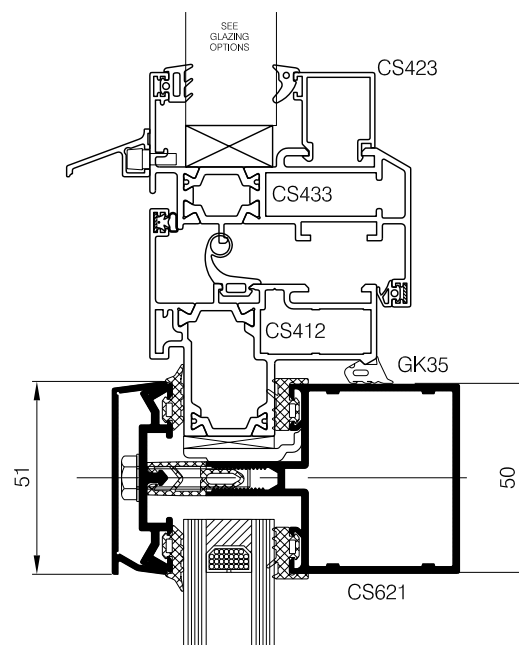
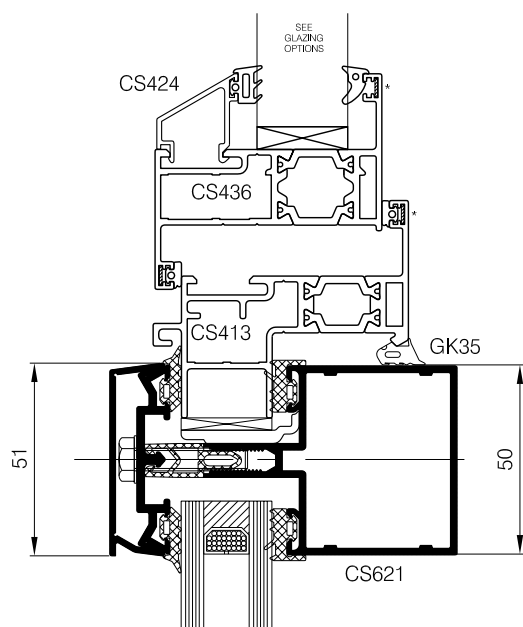
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OPEN OUT CASEMENT VENT,
TOP / SIDE PROJECT / HUNG.
5Pi 60mm WINDOW SYSTEM
EXTERNALLY BEADED



TILT TURN / BOTTOM HUNG, OPEN IN.
5Pi 60mm WINDOW SYSTEM
INTERNALLY BEADED



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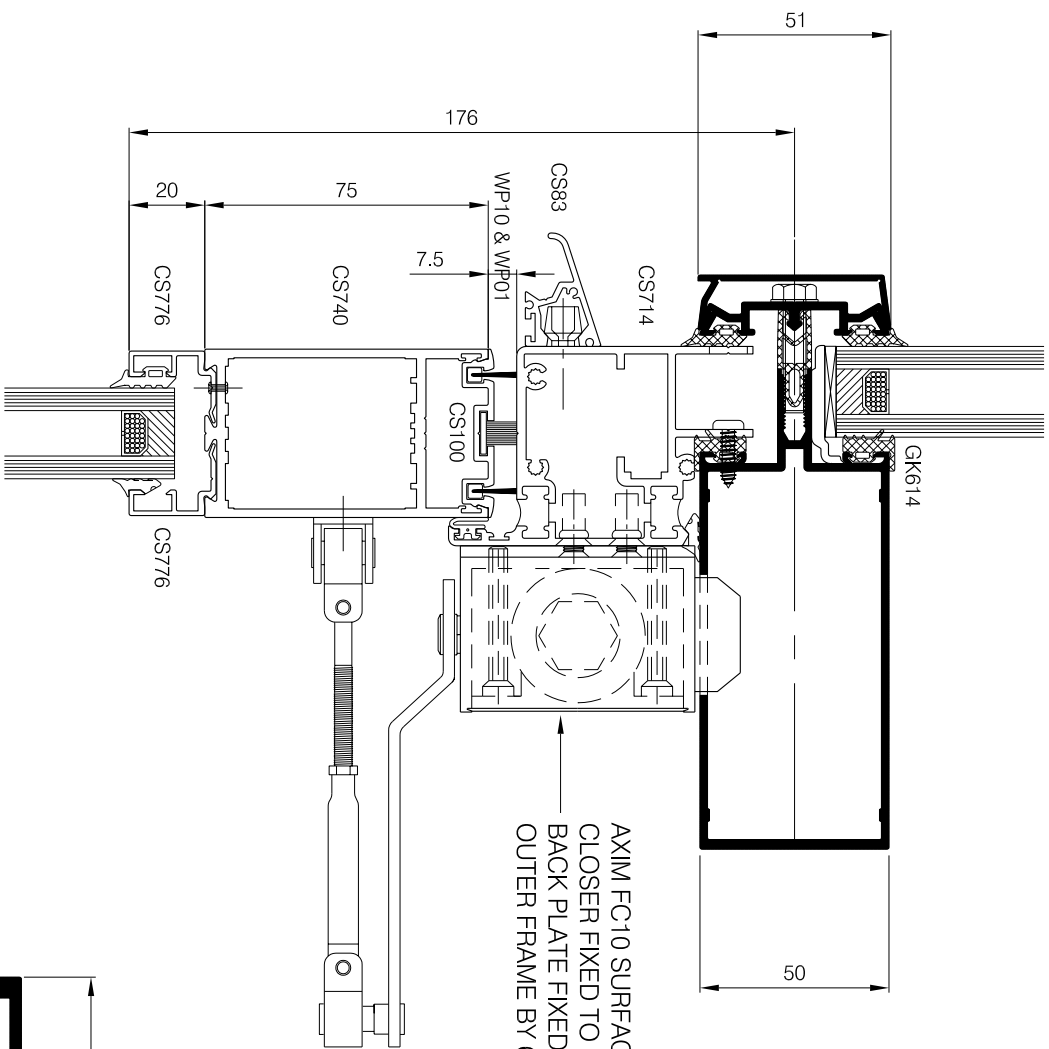


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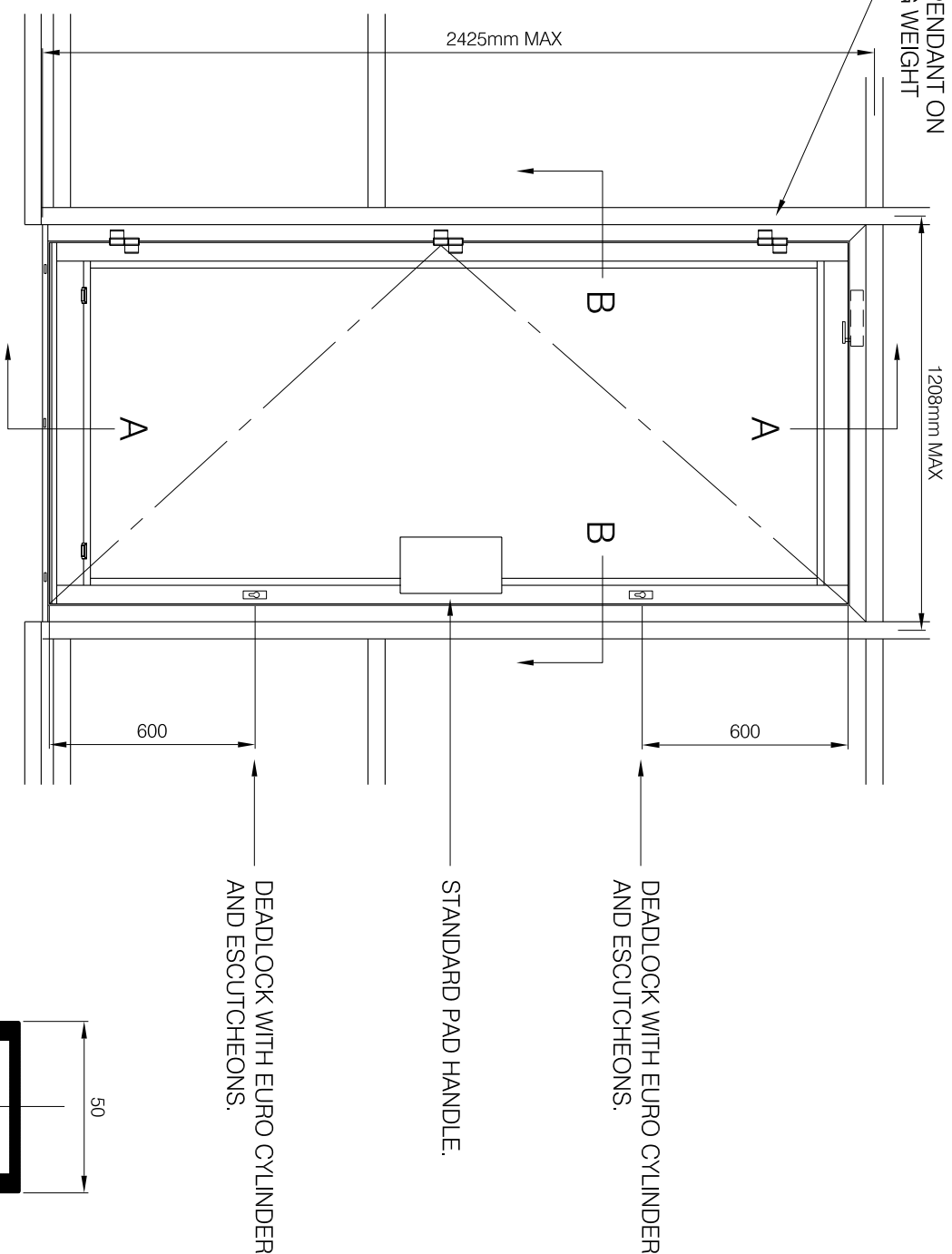
THE PARKSIDE GROUP LTD
UNIT 5 ° THE WILLOW CENTRE
17 WILLOW LANE ° MITCHAM
SURREY ° CR4 4NX
Tel: 020-8685 9685 Fax: 020-8687 1142
Email: technical@parksidegrp.co.uk
Web Site: <http://www.comar-alu.co.uk>

SCALE	1:2	@ A4
DATE	13/10/06	
DRAWN	GS (ANC)	
DRG. No.	C6-SB-1.22 R1	

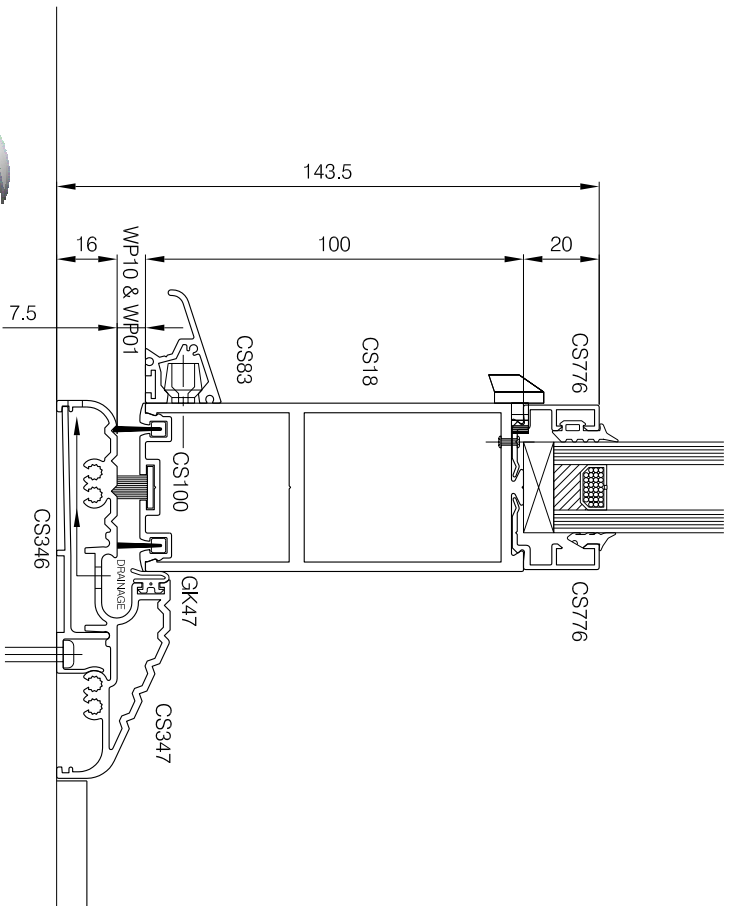


AXIM FC10 SURFACE MOUNTED
CLOSER FIXED TO 5mm BACK PLATE.
BACK PLATE FIXED PRIOR TO DOOR
OUTER FRAME BY 6No. RIVNUTS.

NUMBER OF HINGES DEPENDANT ON
DOOR SIZE AND GLAZING WEIGHT



EXTERNAL ELEVATION (COMAR 7 REBATED DOOR)



3No. HN950 HINGES.
MAX. DOOR WEIGHT 120Kg.

SECTION A-A

SECTION B-B

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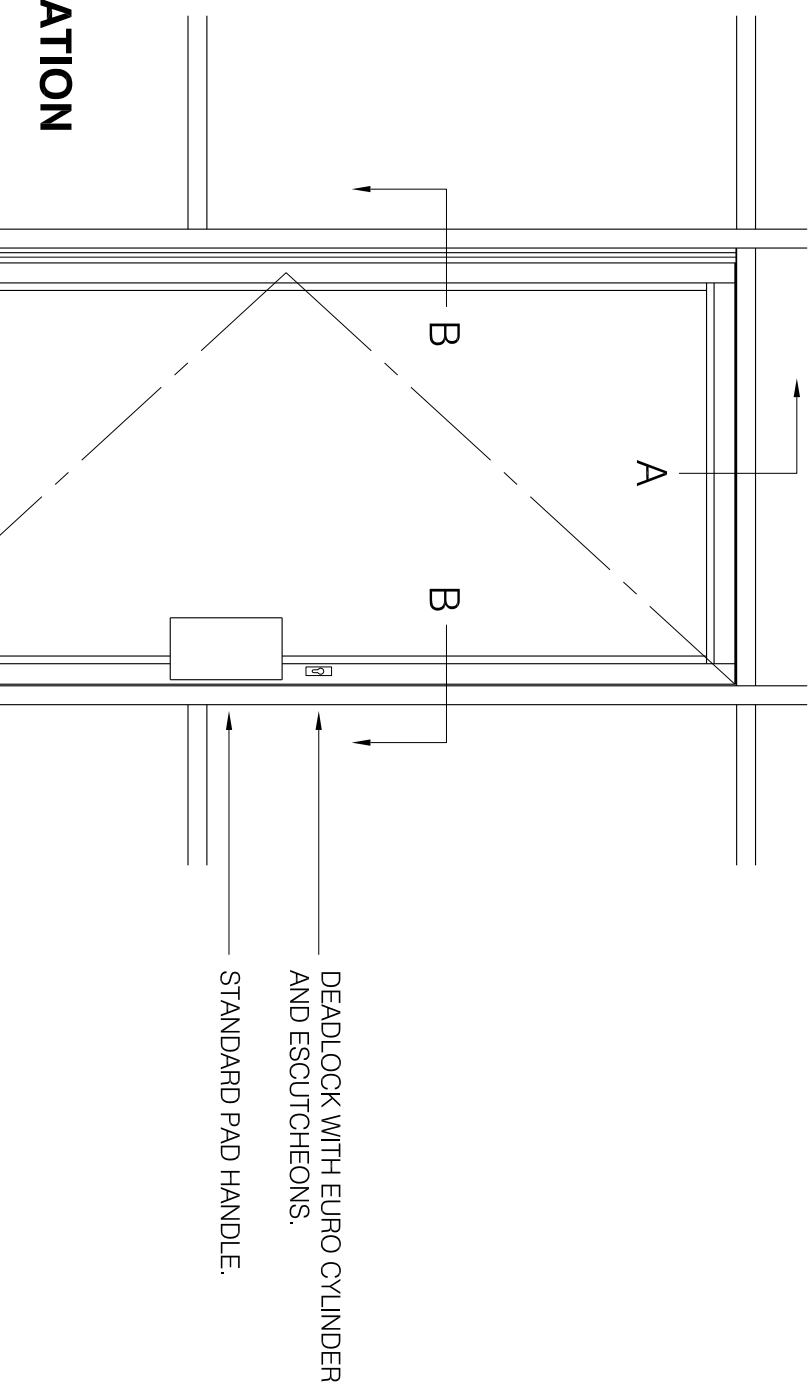


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Tel: 020-8885 9885 Fax: 020-8887 1142
Email: technical@parksidegrp.co.uk
Web Site: <http://www.comar-alu.co.uk>

CURTAIN WALLING
COMAR 6 STICK BUILD SYSTEM
DOOR INSERT DETAILS
COMAR 7 REBATED DOOR

comar 6 Stick

DRAWN	SA (NH)	SCALE	N T S	@A3
DATE	13/10/06	DWG. No.	C6-SB-1.23	R1

[illegible]

comar

ARCHITECTURAL ALUMINIUM SYSTEMS



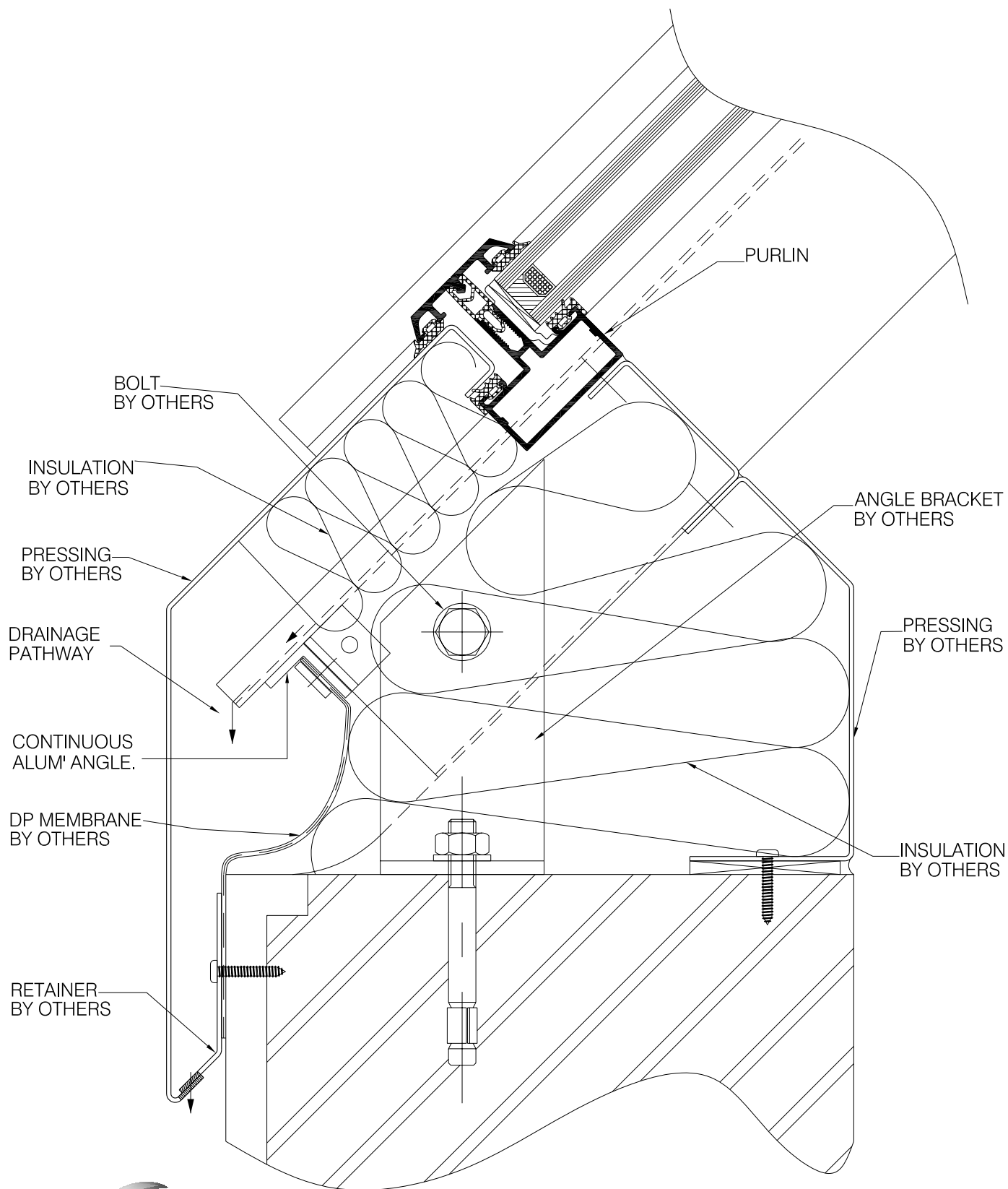
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SURREY . CR4 4NX
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Email: technical@parksidegrp.co.uk
Web Site: <http://www.comar-ali.co.uk>

**CURTAIN WALLING
COMAR 6 STICK BUILD SYSTEM
DOOR INSERT DETAILS
TRANSOM CLOSER (FINGER GUARD)**

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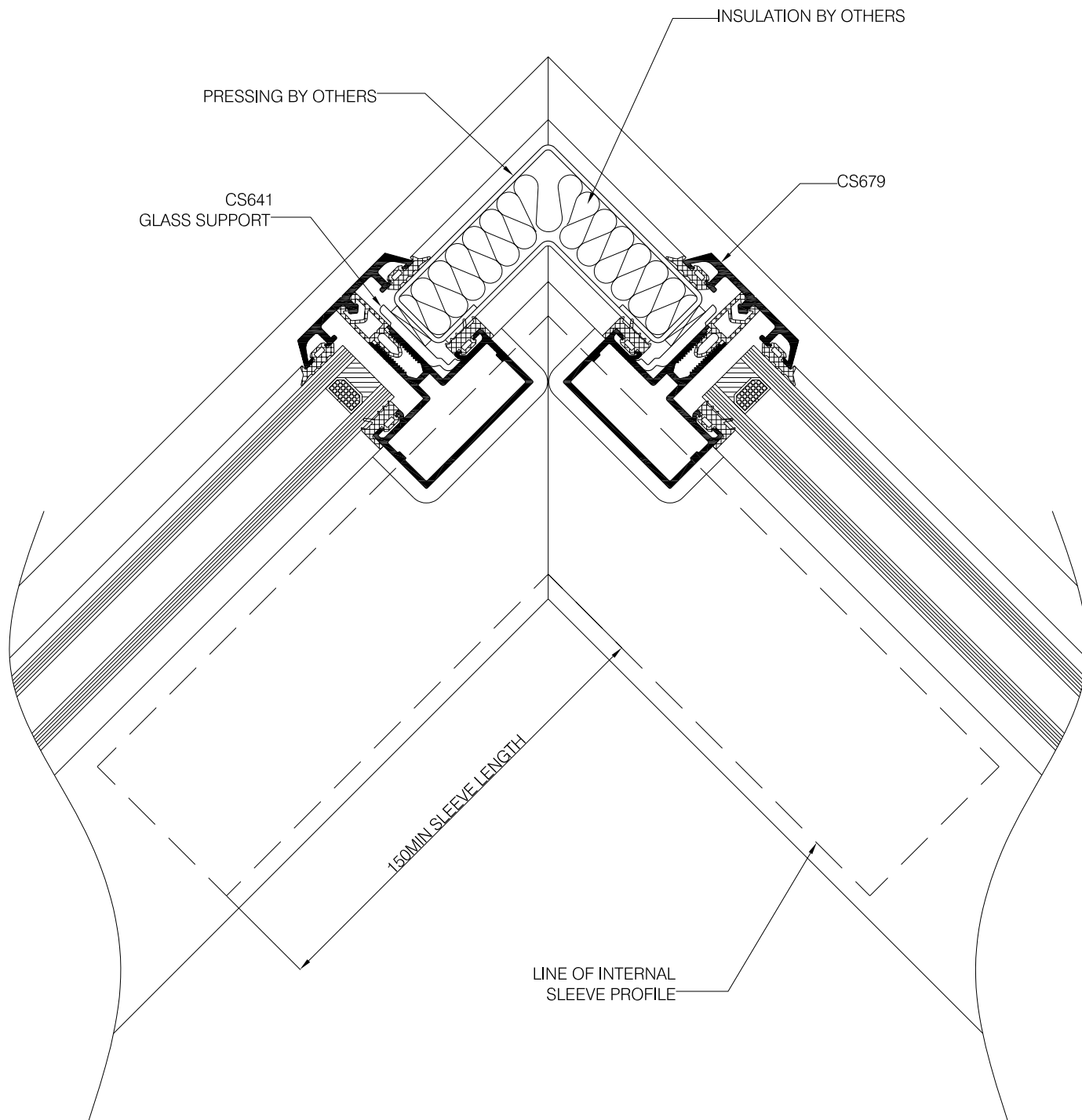
combar 6 Stick

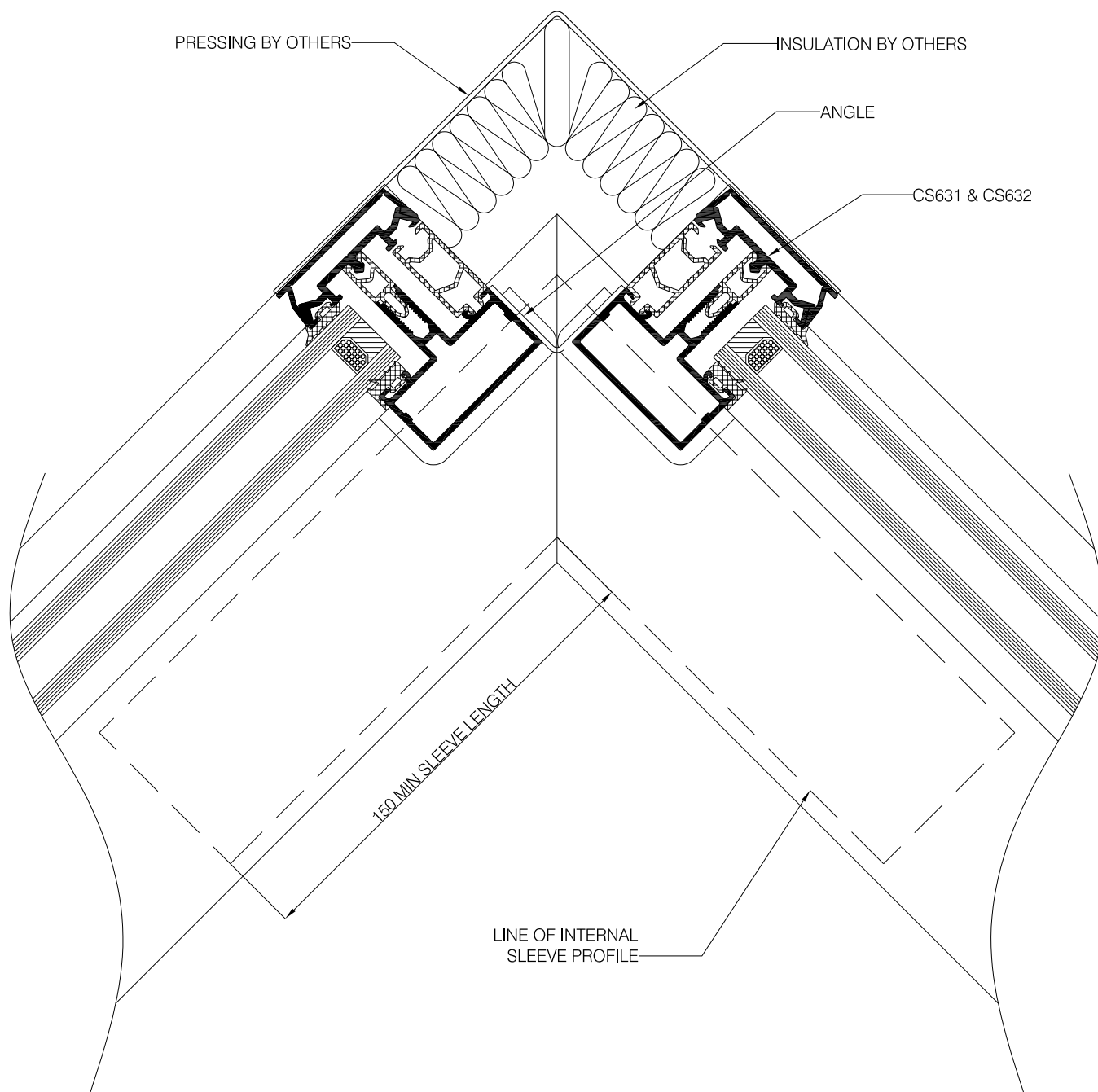
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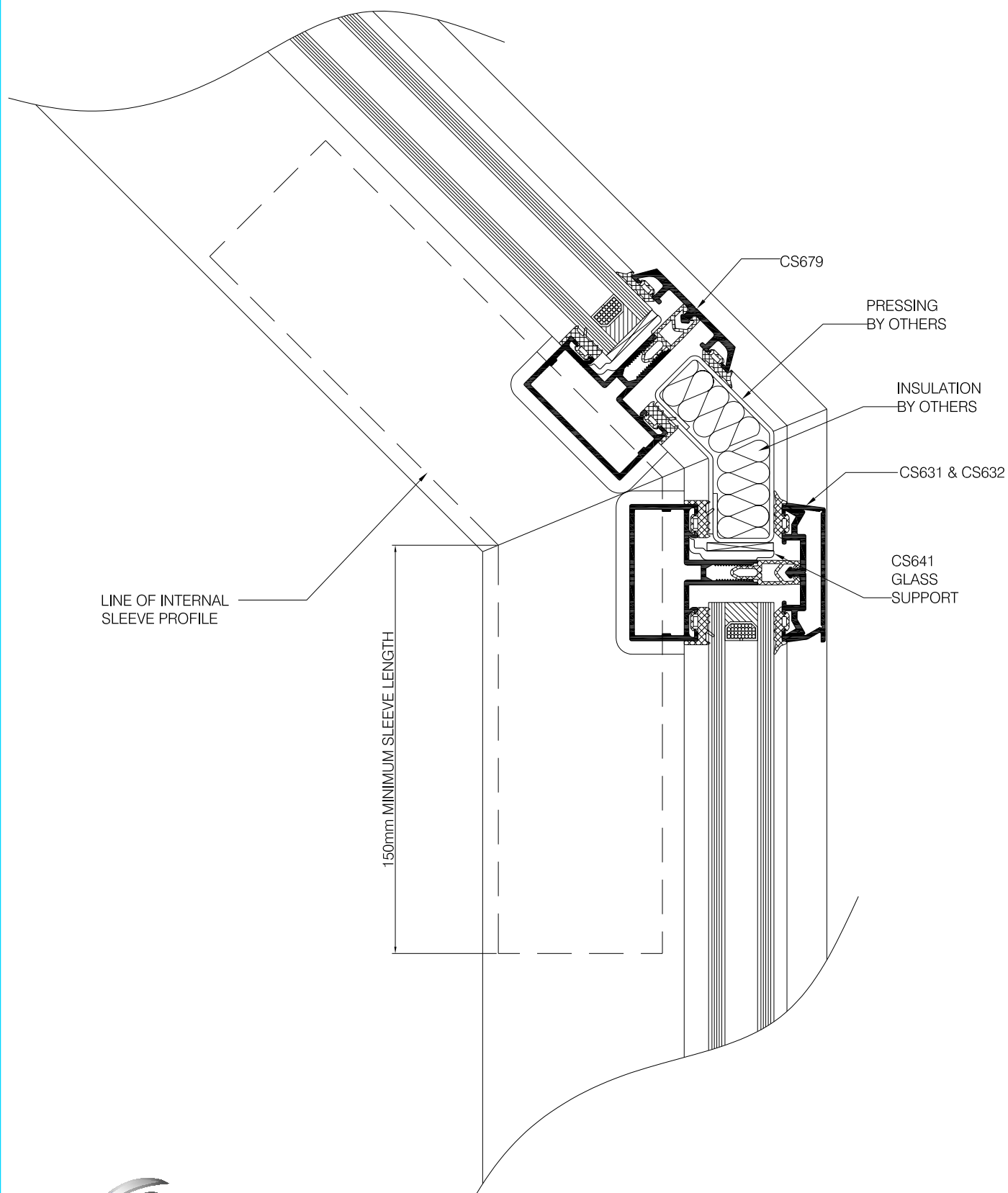


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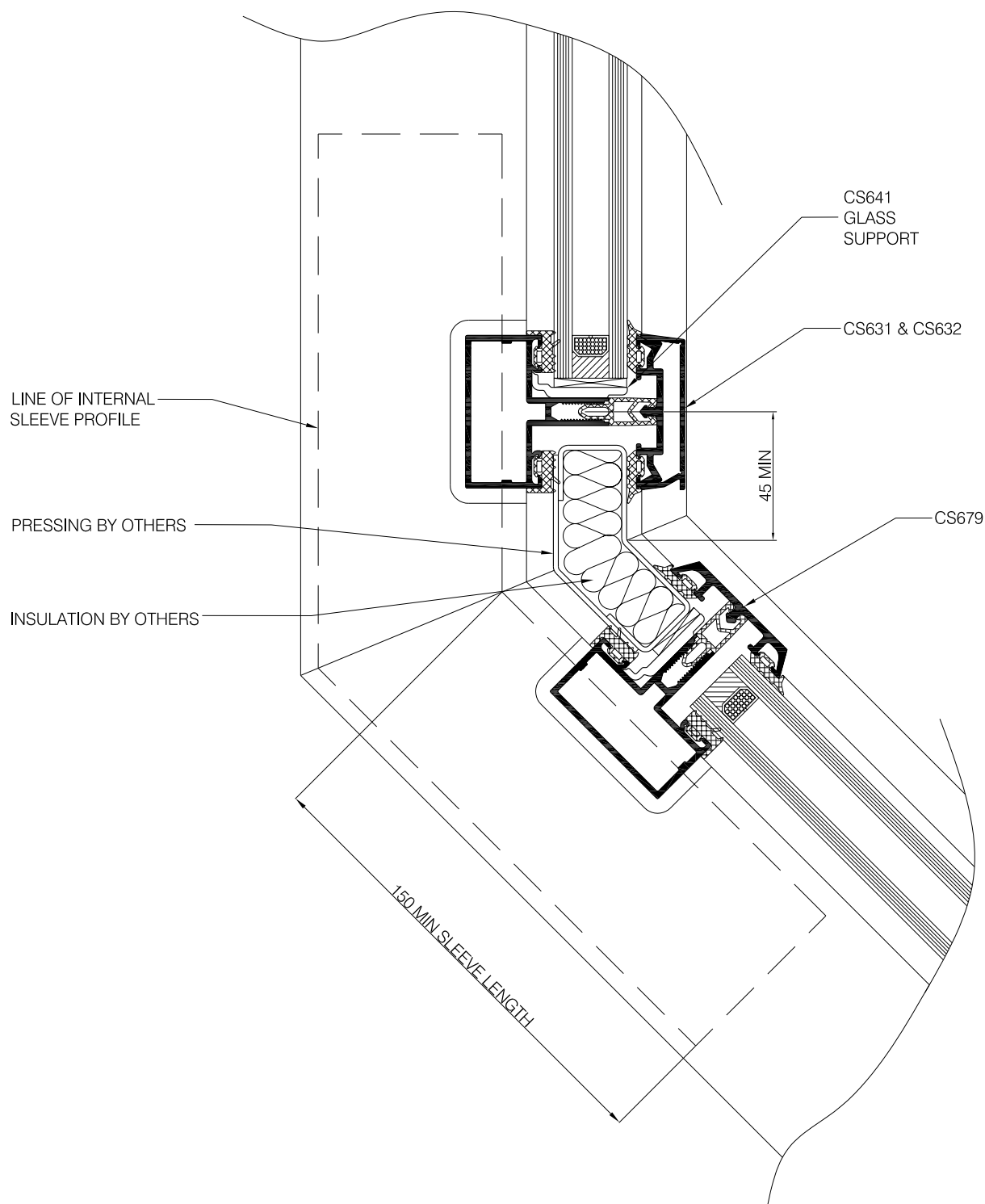


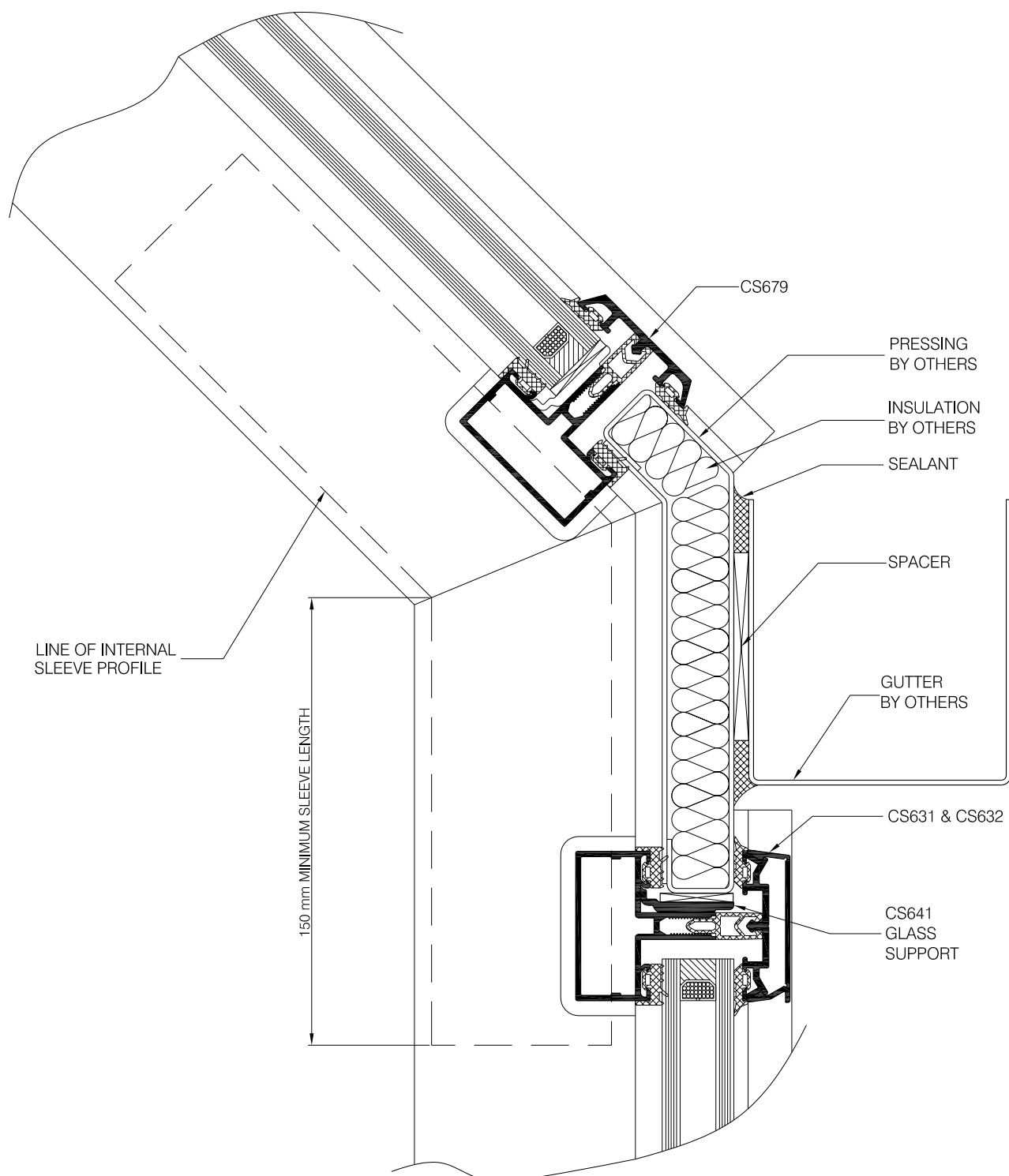


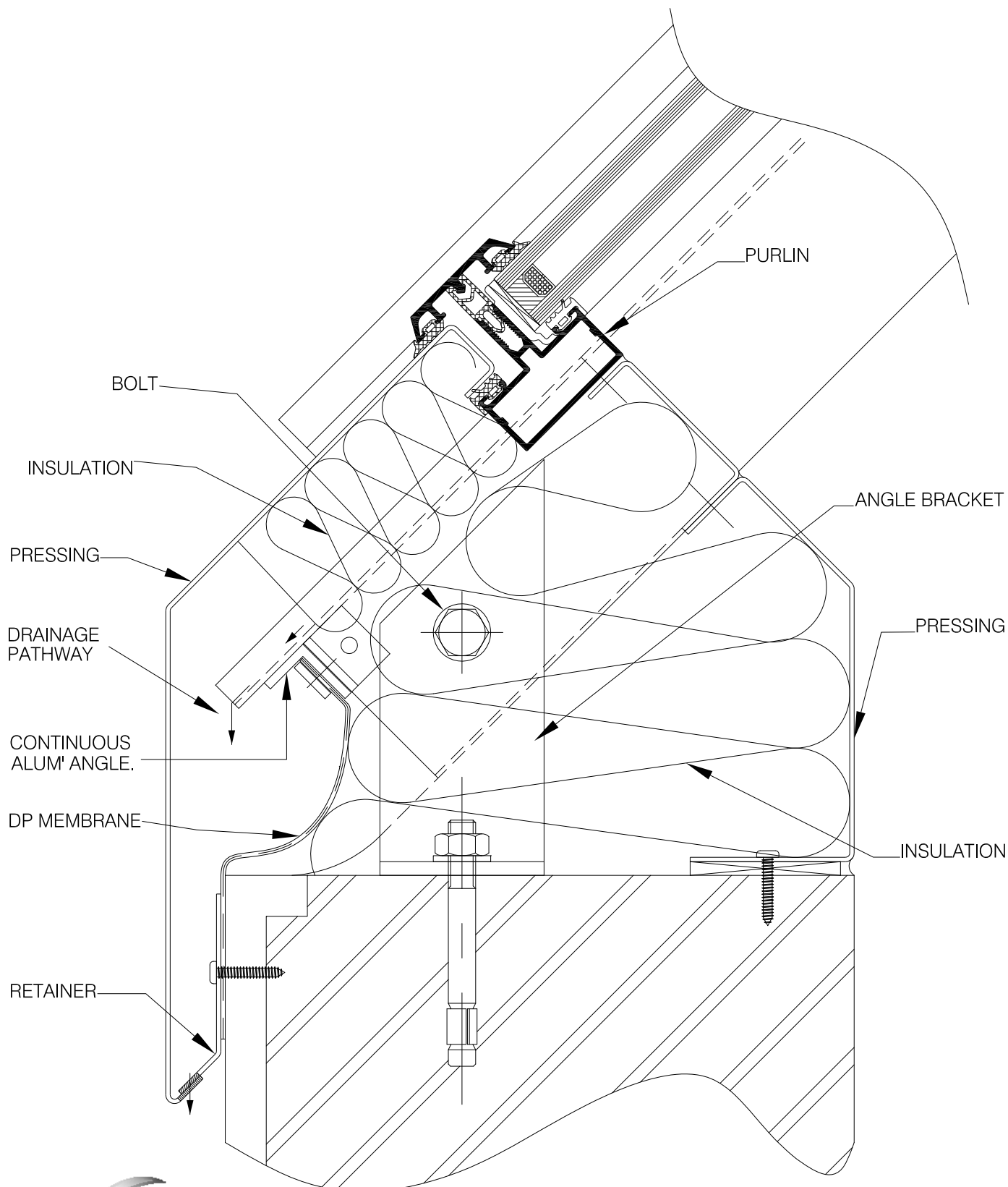


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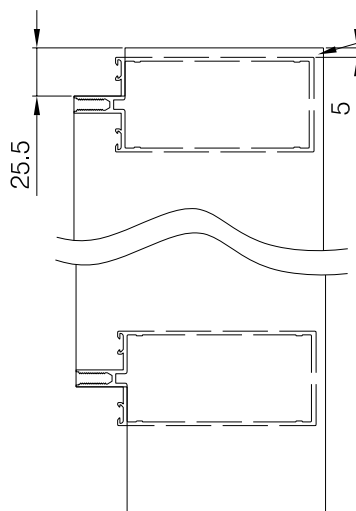
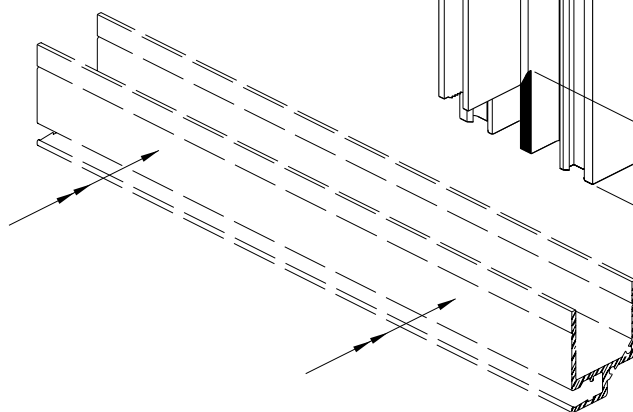
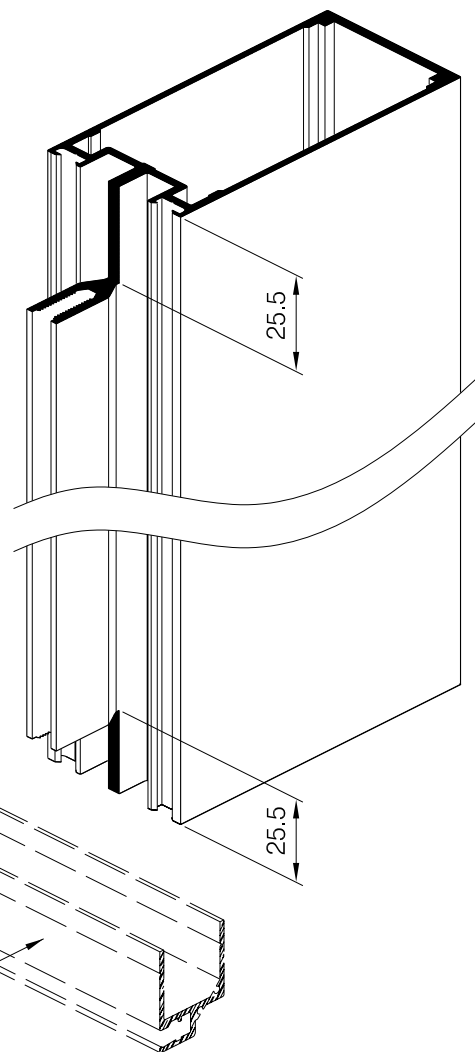








NOTCH TOP & BOTTOM OF
MULLION AS SHOWN TO
ACCOMMODATE FIXING OF
CONTINUOUS PRESSWORK
/ PERIMETER CLOSING
SECTIONS & SUB SILL
CARRIER.

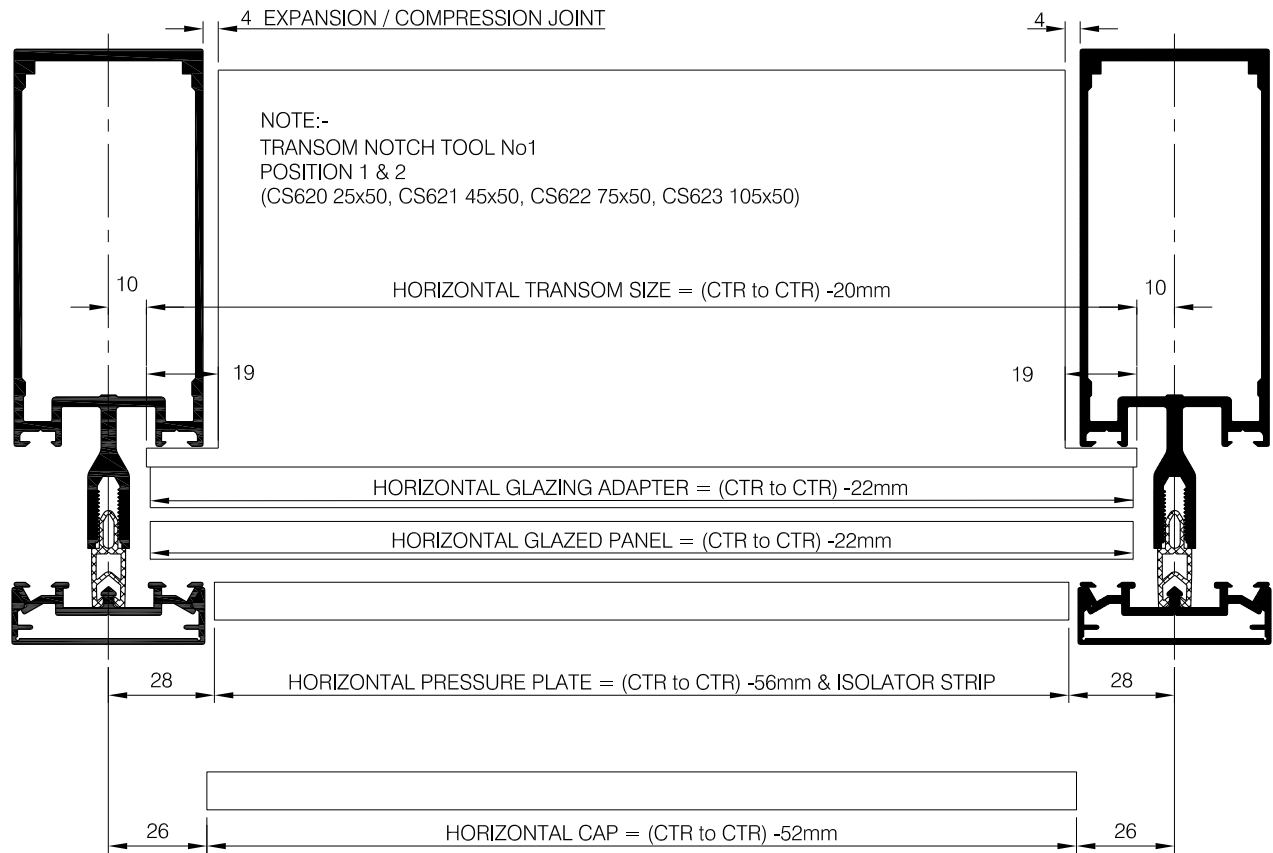


TYPICAL OVERLAP OF
MULLION TO ALLOW FOR
FITTING OF EPDM TRANSOM
END PADS. *

NOTE:- * REFERS TO TOP &
BOTTOM OF MULLION.

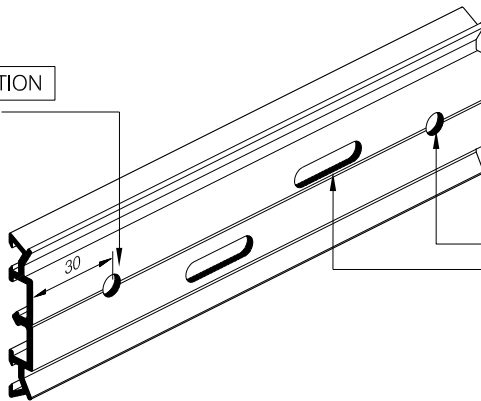
WHERE TYPICAL OVERLAP
CANNOT BE ACHIEVED
NOSING TO BE CUT AS
SHOWN. *





FACTORY PREPARATION

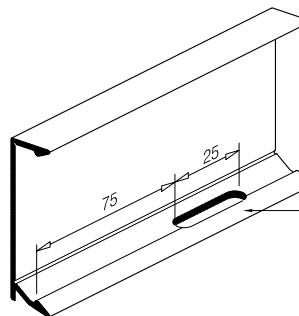
PUNCH 6.5mm
FIXING HOLES
30mm IN FROM
EACH END
NOTE:-
PUNCH TOOL No2
POSITION 1



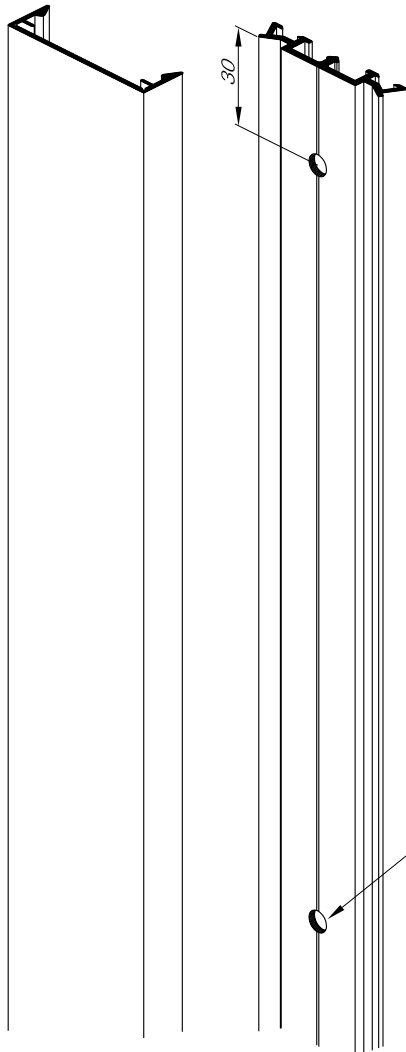
USE TRANSOM PRESSURE PLATE CS630
WITH PRE-PUNCHED :-
FIXING HOLES @ 300mm CENTRES
DRAINAGE SLOTS @ 300mm CENTRES

FACTORY PREPARATION

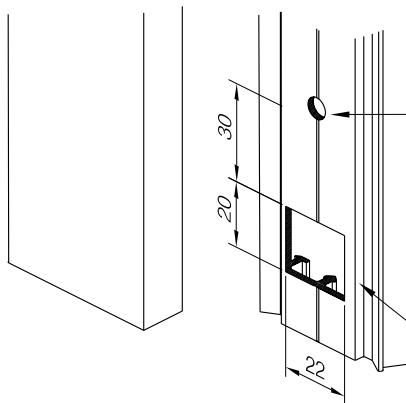
PUNCH 25 x 6mm SLOTTED HOLES
75mm IN FROM BOTH ENDS.
PUNCH ONE SLOT CENTRAL FOR
LENGTHS OVER 1200mm.
NOTE:- PUNCH TOOL No 2 POSITION 3



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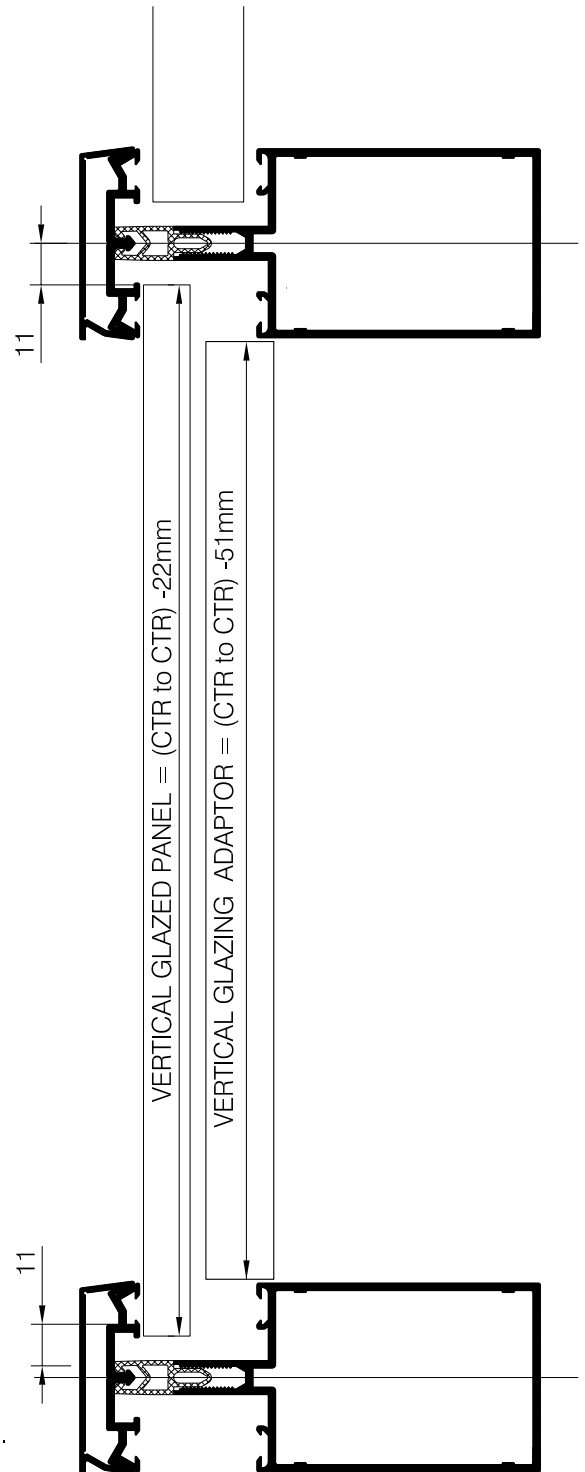


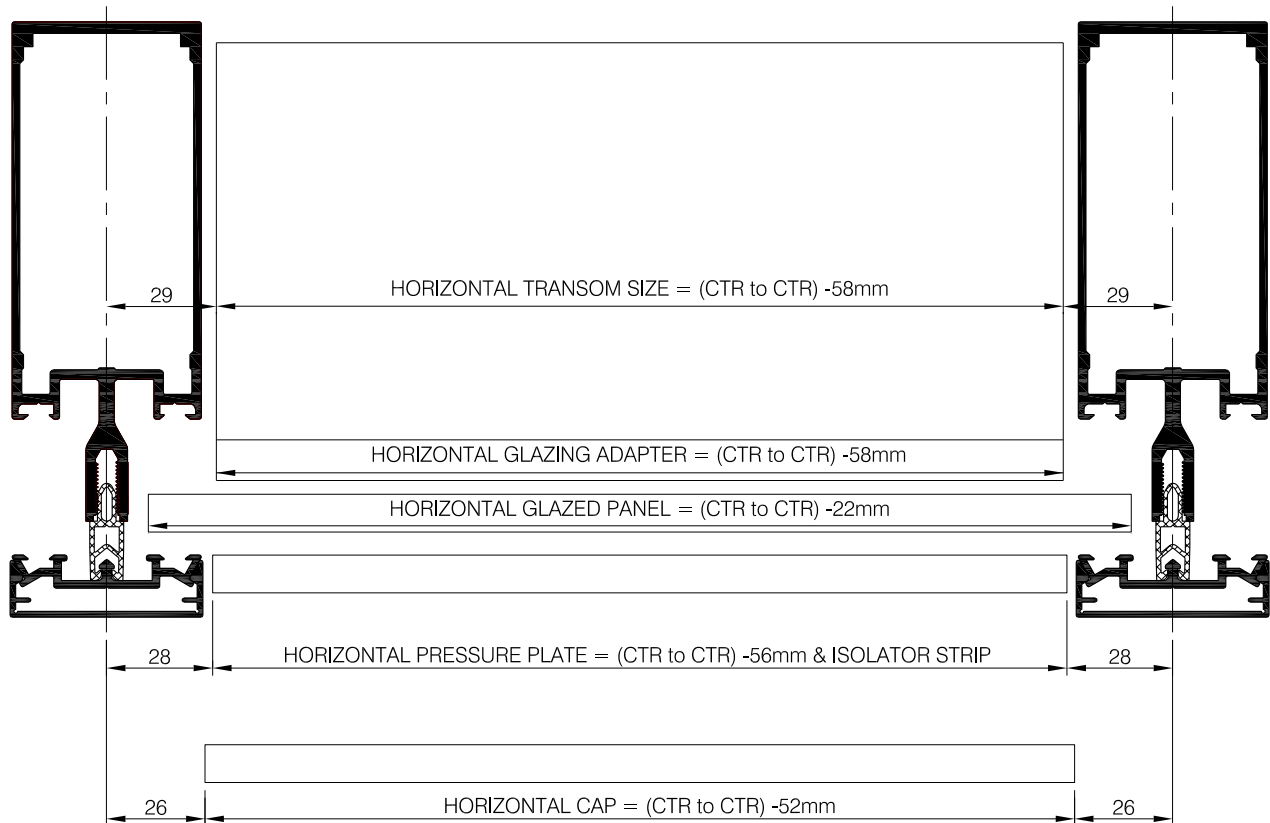
USE MULLION
PRESSURE PLATE
CS632 WITH
PRE-PUNCHED
6.5 mm FIXING HOLES
@ 300mm CENTRES



FACTORY PREPARATION

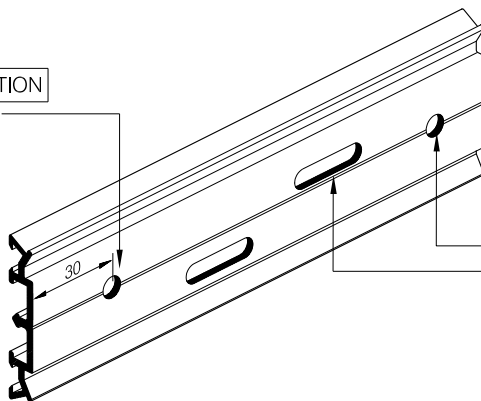
PUNCH 6.5mm
FIXING HOLES
30mm ABOVE
SPOUT HOLE
NOTE:-
PUNCH TOOL No2
POSITION 1
22 x 20mm SPOUT
HOLES PUNCHED
AT BOTTOM OF MULLIONS.
NOTE:-
PUNCH TOOL No2
POSITION 2





FACTORY PREPARATION

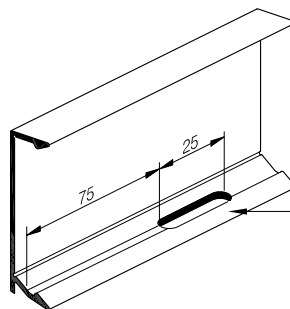
PUNCH 6.5mm
FIXING HOLES
30mm IN FROM
EACH END
NOTE:-
PUNCH TOOL No2
POSITION 1



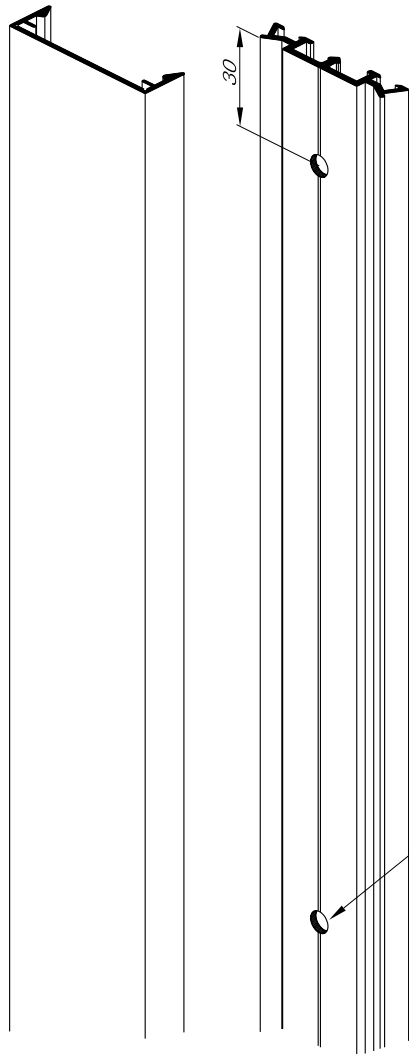
USE TRANSOM PRESSURE PLATE CS630
WITH PRE-PUNCHED :-
FIXING HOLES @ 300mm CENTRES
DRAINAGE SLOTS @ 300mm CENTRES

FACTORY PREPARATION

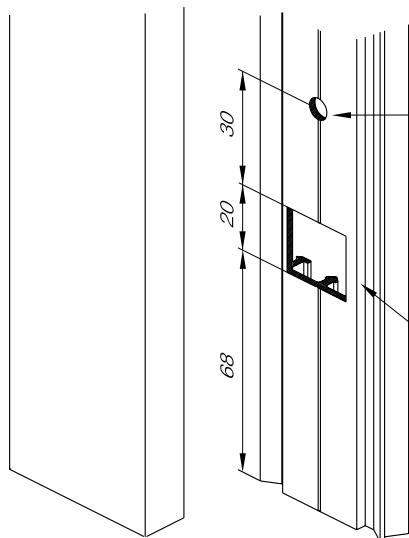
PUNCH 25 x 6mm SLOTTED HOLES
75mm IN FROM BOTH ENDS.
PUNCH ONE SLOT CENTRAL FOR
LENGTHS OVER 1200mm.
NOTE:- PUNCH TOOL No 2 POSITION 3



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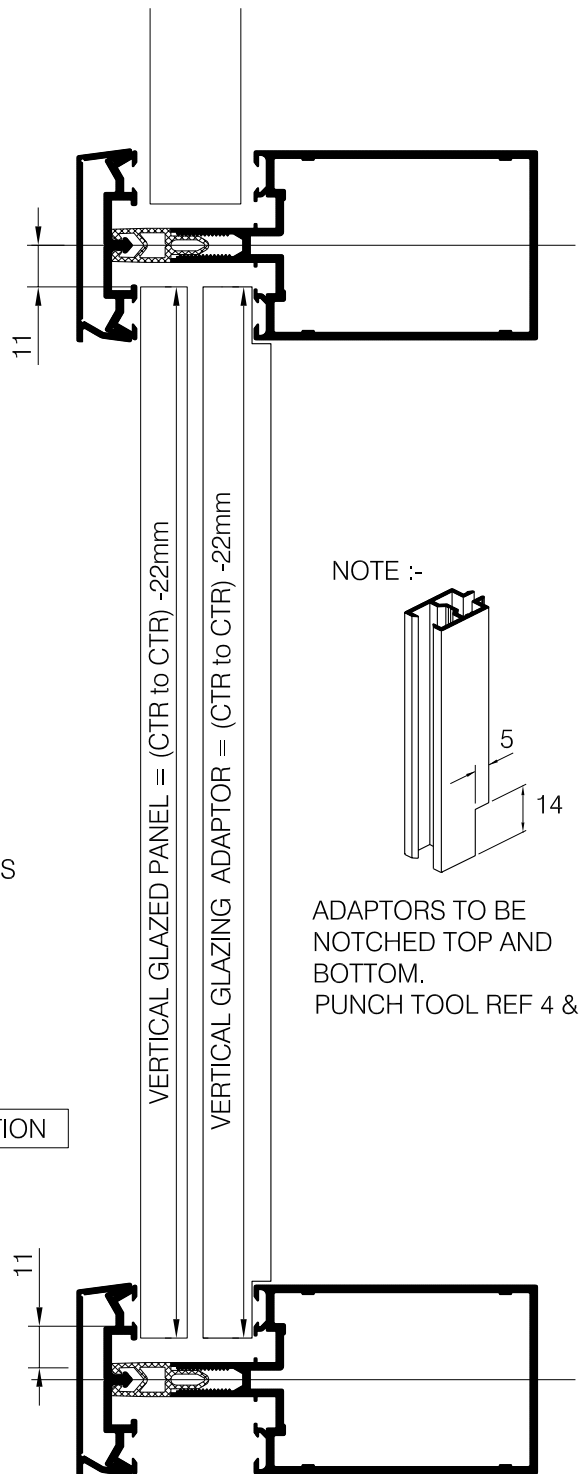


USE MULLION
PRESSURE PLATE
CS632 WITH
PRE-PUNCHED
6.5 mm FIXING HOLES
@ 300mm CENTRES

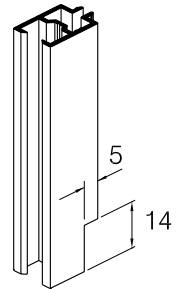


FACTORY PREPARATION

PUNCH 6.5mm
FIXING HOLES
30mm ABOVE
SPOUT HOLE
NOTE:-
PUNCH TOOL No2
POSITION 1
22 x 20mm SPOUT
HOLES PUNCHED
AT BASE LEVEL.
NOTE:-
PUNCH TOOL No2
POSITION 2

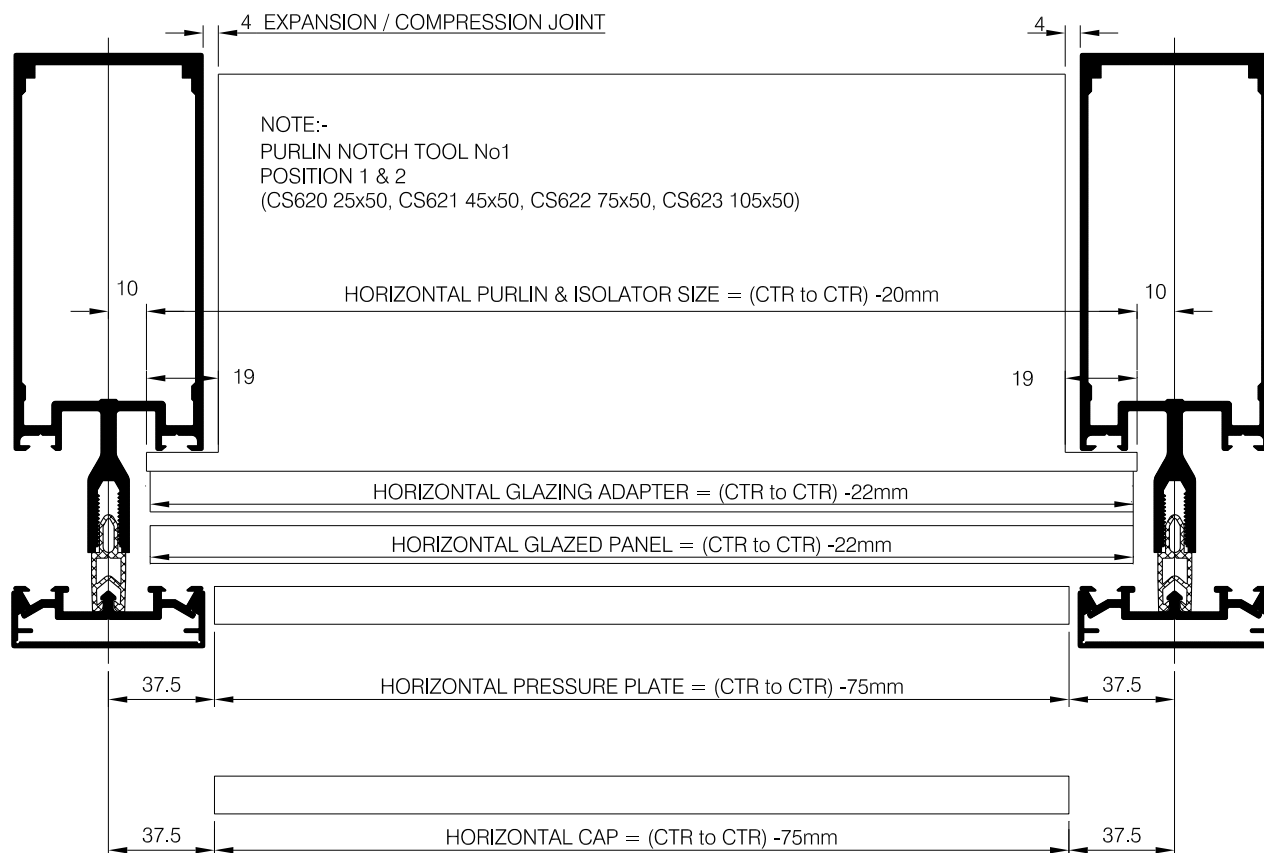


NOTE :-



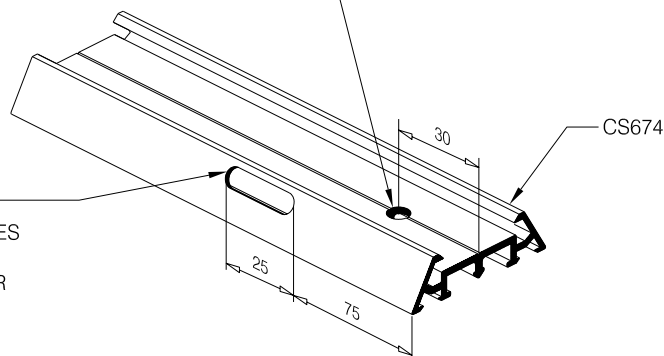
ADAPTORS TO BE
NOTCHED TOP AND
BOTTOM.
PUNCH TOOL REF 4 & 5





FACTORY PREPARATION

PUNCH 6.5mm
FIXING HOLES
30mm IN FROM
EACH END
NOTE:-
PUNCH TOOL No2
POSITION 1



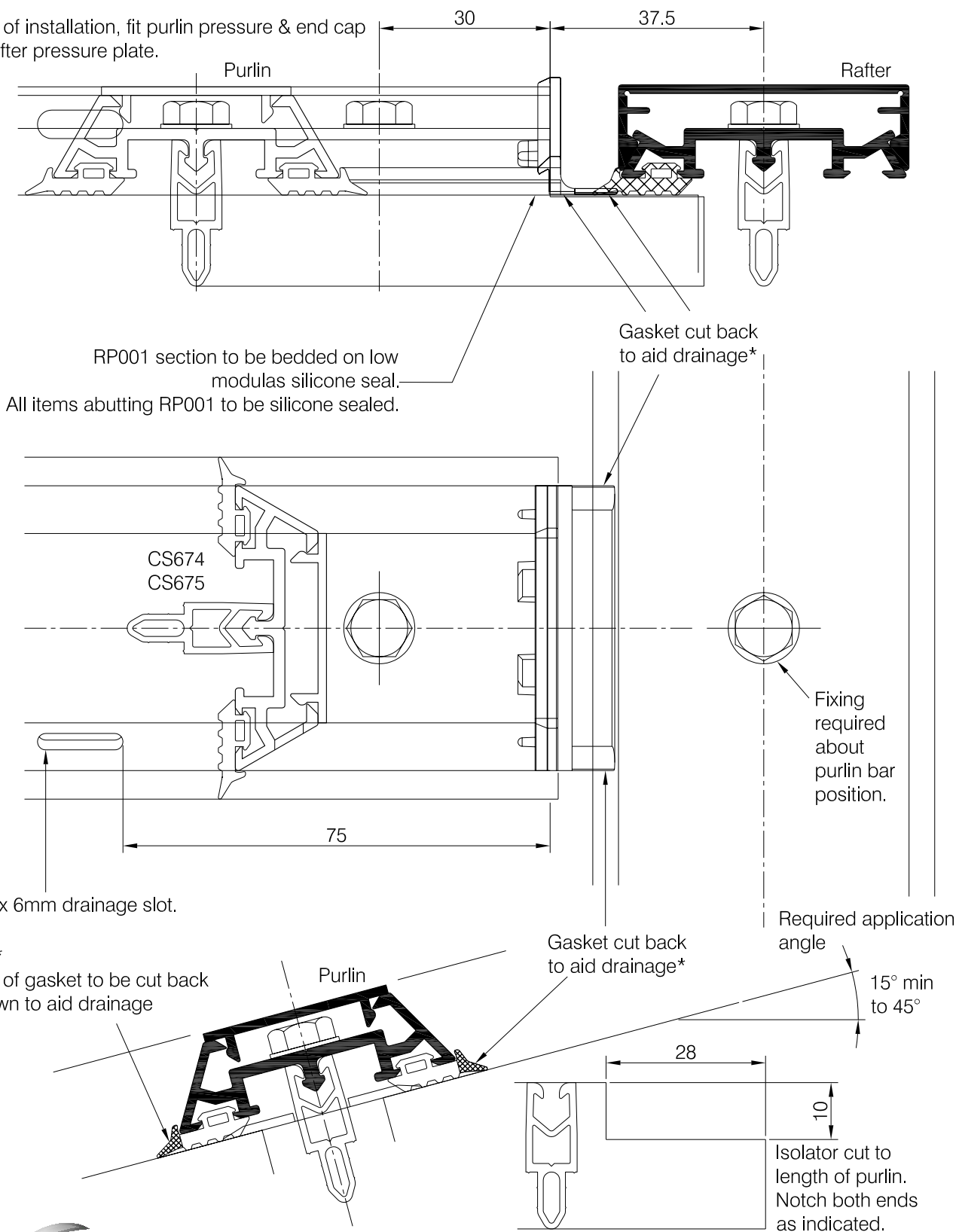
FACTORY PREPARATION

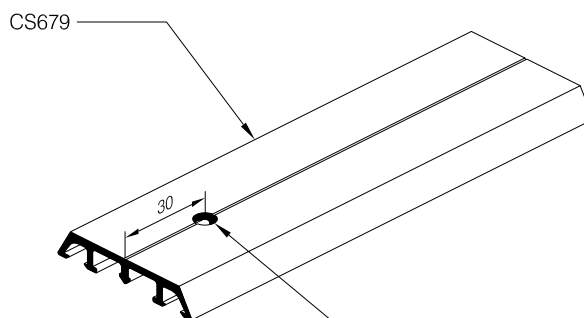
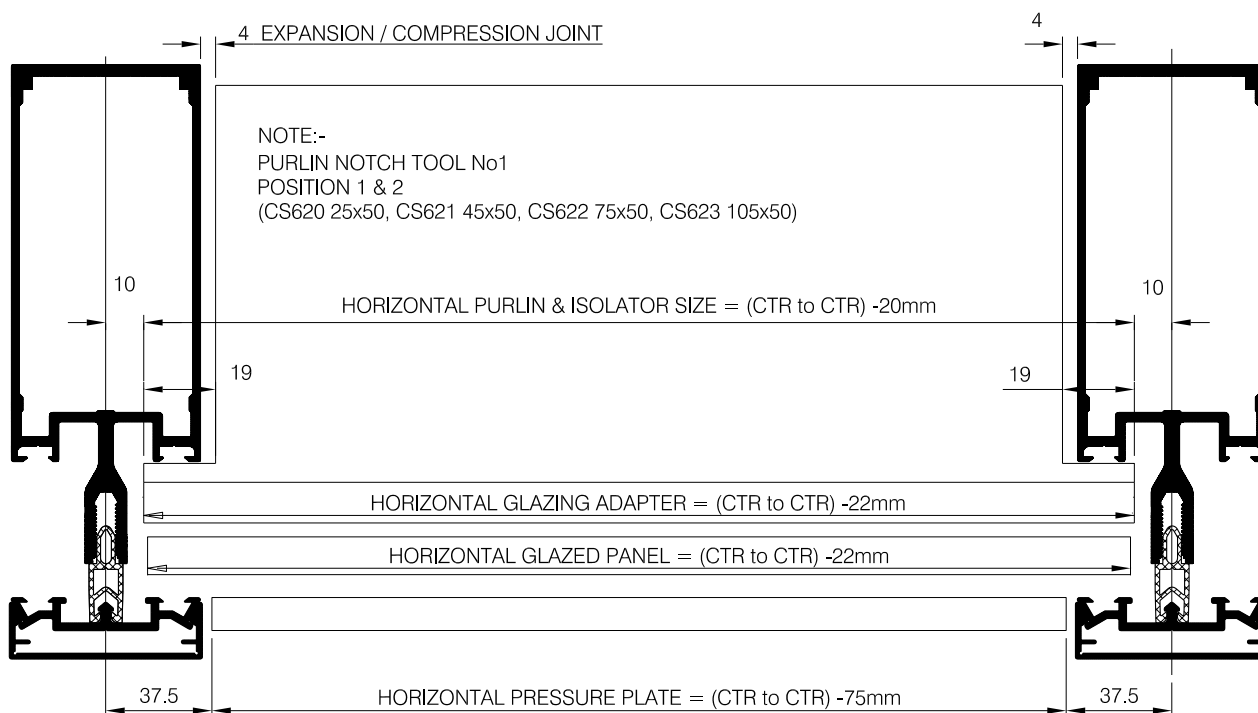
ROUT 25 x 6mm SLOTTED HOLES
75mm IN FROM BOTH ENDS.
ROUT ONE SLOT CENTRAL FOR
LENGTHS OVER 1200mm.
NOTE:
TO LOWER EDGE ONLY



NOTE:

For ease of installation, fit purlin pressure & end cap before rafter pressure plate.





FACTORY PREPARATION

PUNCH 6.5mm
FIXING HOLES
30mm IN FROM
EACH END
NOTE:-
PUNCH TOOL No2
POSITION 1



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ARCHITECTURAL ALUMINIUM SYSTEMS



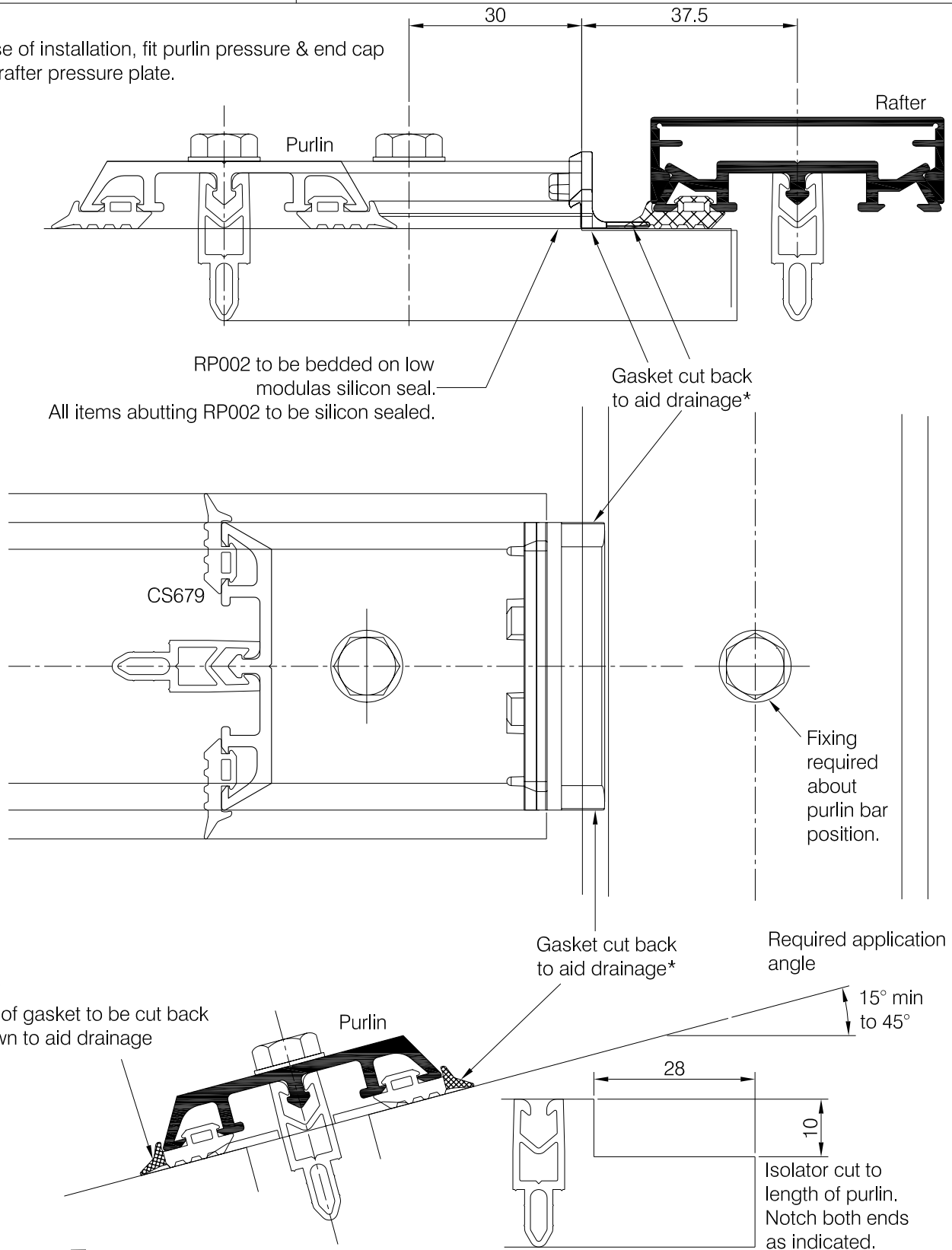
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SURREY ° CR4 4NX
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Email: technical@parksidegrp.co.uk
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DATE	12/10/06	
DRAWN	AF (NH)	
DRG. No.	C6-SB-2.08 R1	

NOTE:

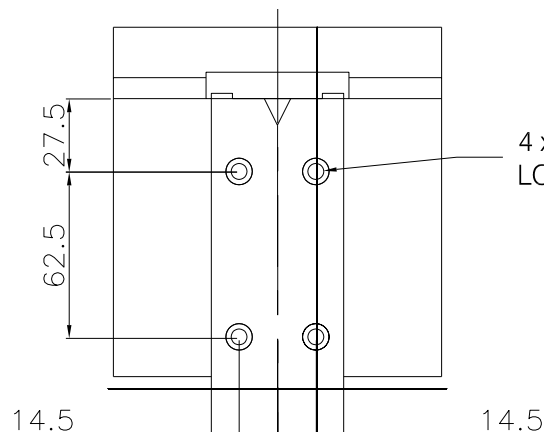
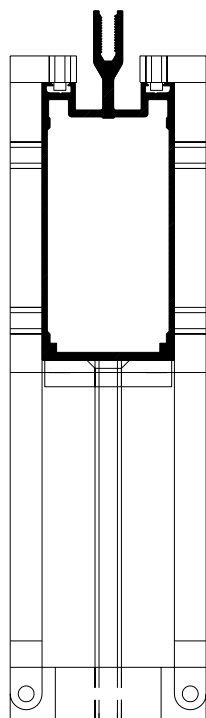
For ease of installation, fit purlin pressure & end cap before rafter pressure plate.



NOTE *

Portion of gasket to be cut back as shown to aid drainage

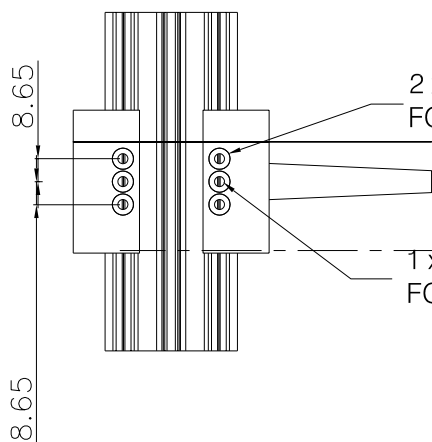




4 x Ø 6 HOLES FOR SPRUNG
LOADED CLEAT PINS

**MULLION PREP HOLES
TO TAKE TRANSOMS:-**
CS620, CS621, CS622, CS623,
CS624, CS625, CS650, CS651,
CS652, CS653, CS654 & CS655

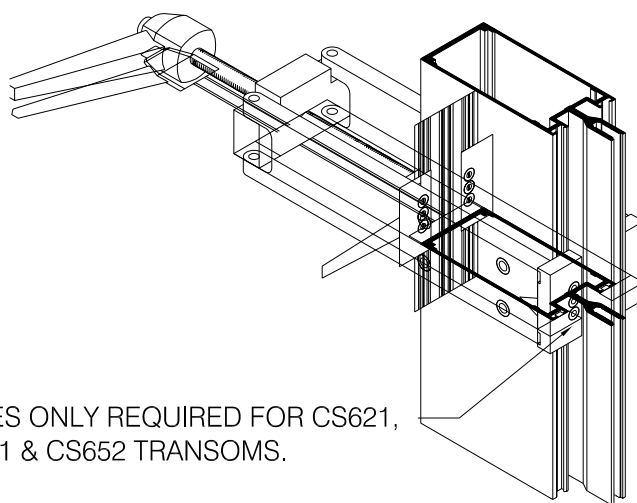
JIG No.1

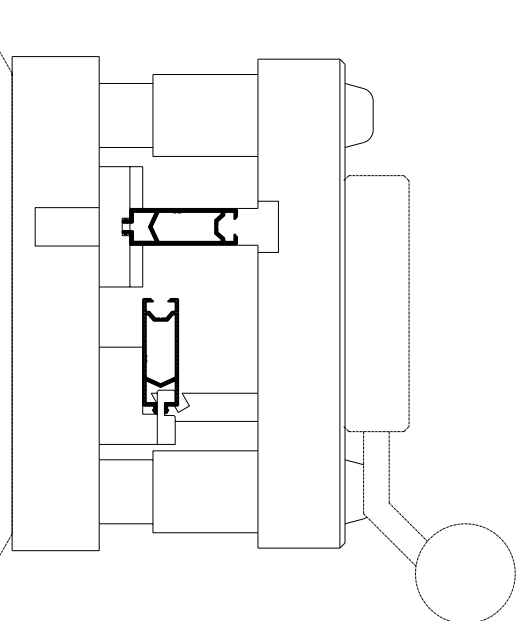


2 x Ø 3.8 HOLES
FOR No.8 SCREWS

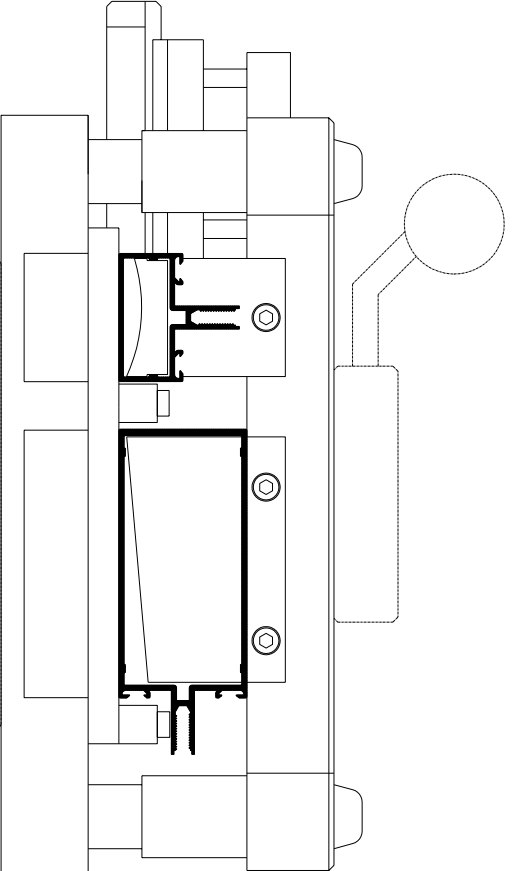
1 x Ø 4.5 HOLE
FOR SHEAR PINS

FRONT HOLES ONLY REQUIRED FOR CS621,
CS622, CS651 & CS652 TRANSOMS.

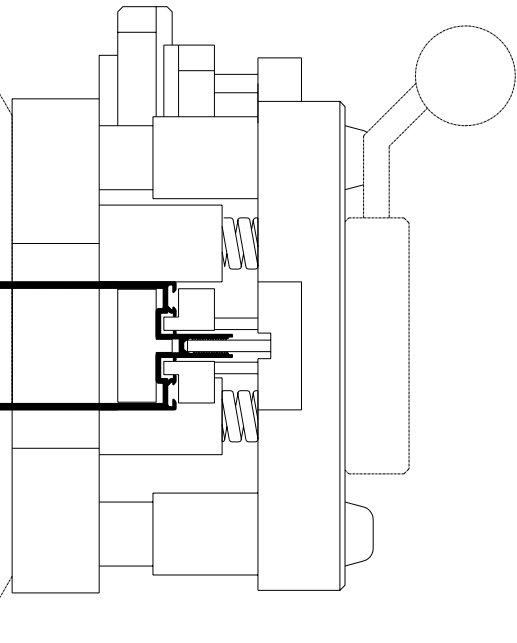




POSITION 4 & 5

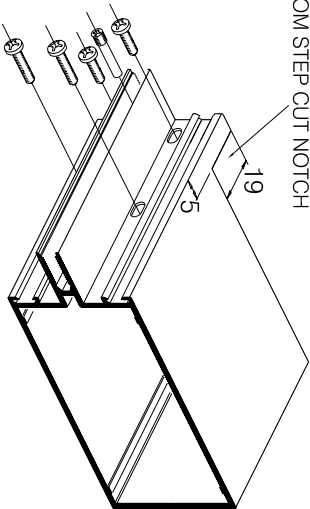


POSITION 1 & 2

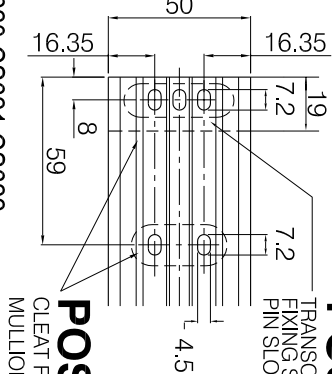


POSITION 3

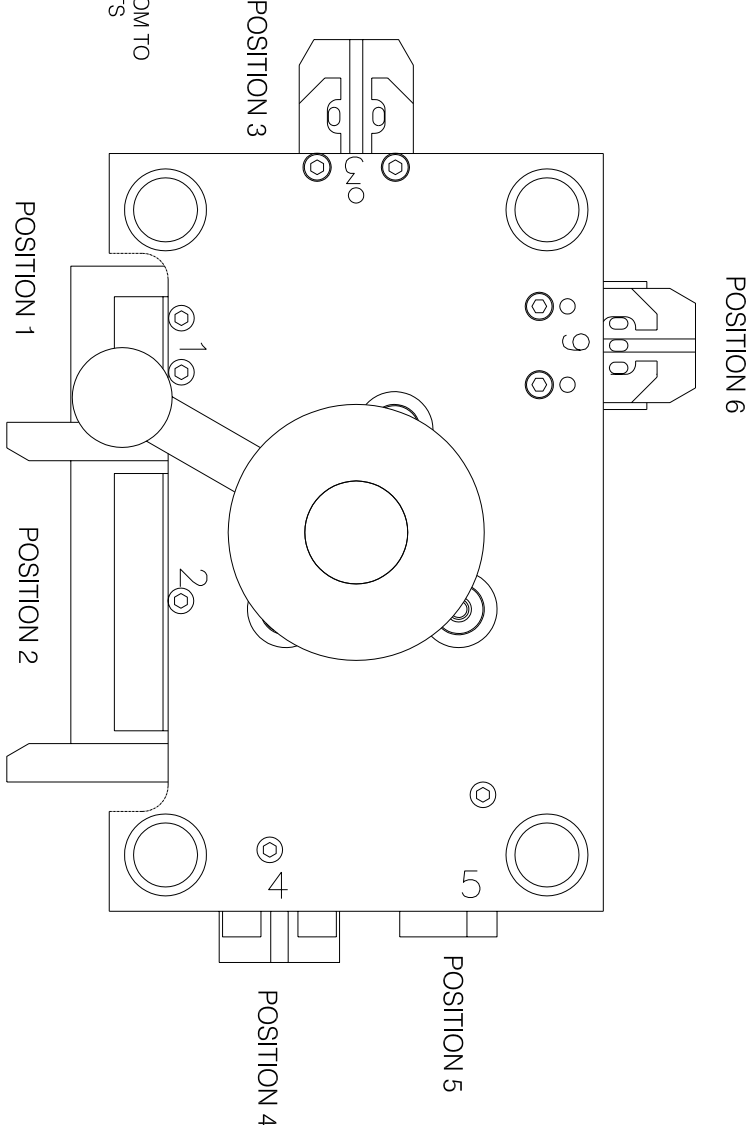
POSITION 1 & 2
TRANSOM STEP CUT NOTCH



POSITION 6
TRANSOM TO MULLION
FIXING SLOTS & SHEAR
PIN SLOT



POSITION 3
CLEAT FIXING SLOT & TRANSOM TO
MULLION FIXING/SHEAR SLOTS



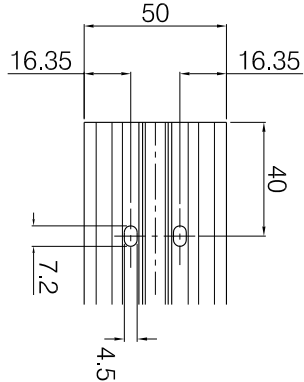
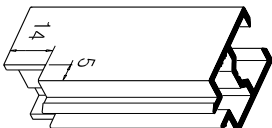
STEP CUT TRANSOM PUNCH
TOOLING PREP

NOTE:- CS624 & CS625 END
NOTCH TO BE HAND CUT.

CS635,CS636,CS637,
CS638,CS639,CS640.

POSITION 4 & 5

SQUARE CUT TRANSOM ADAPTOR NOTCH



CS650,CS651,CS652,
CS653,CS654,CS655.

POSITION 3

SQUARE CUT TRANSOM PUNCH
TOOLING PREP



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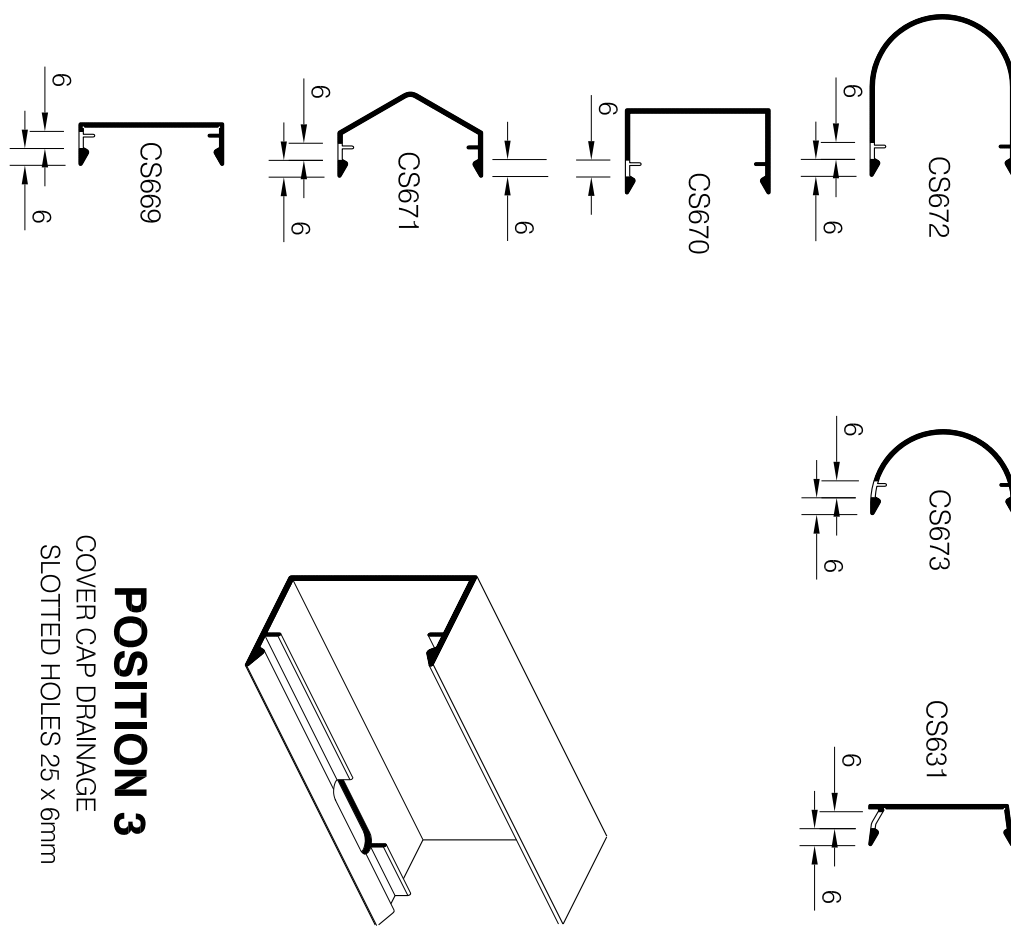
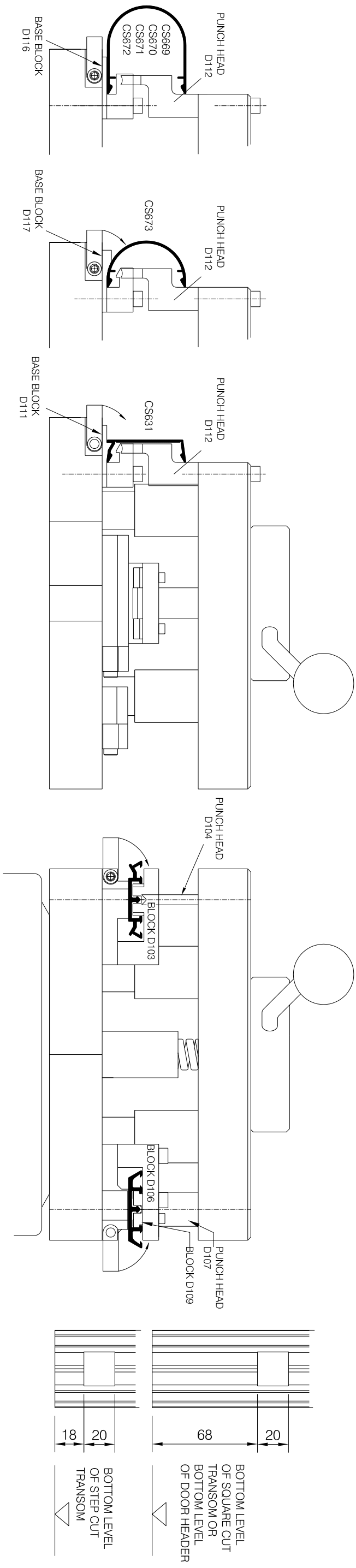


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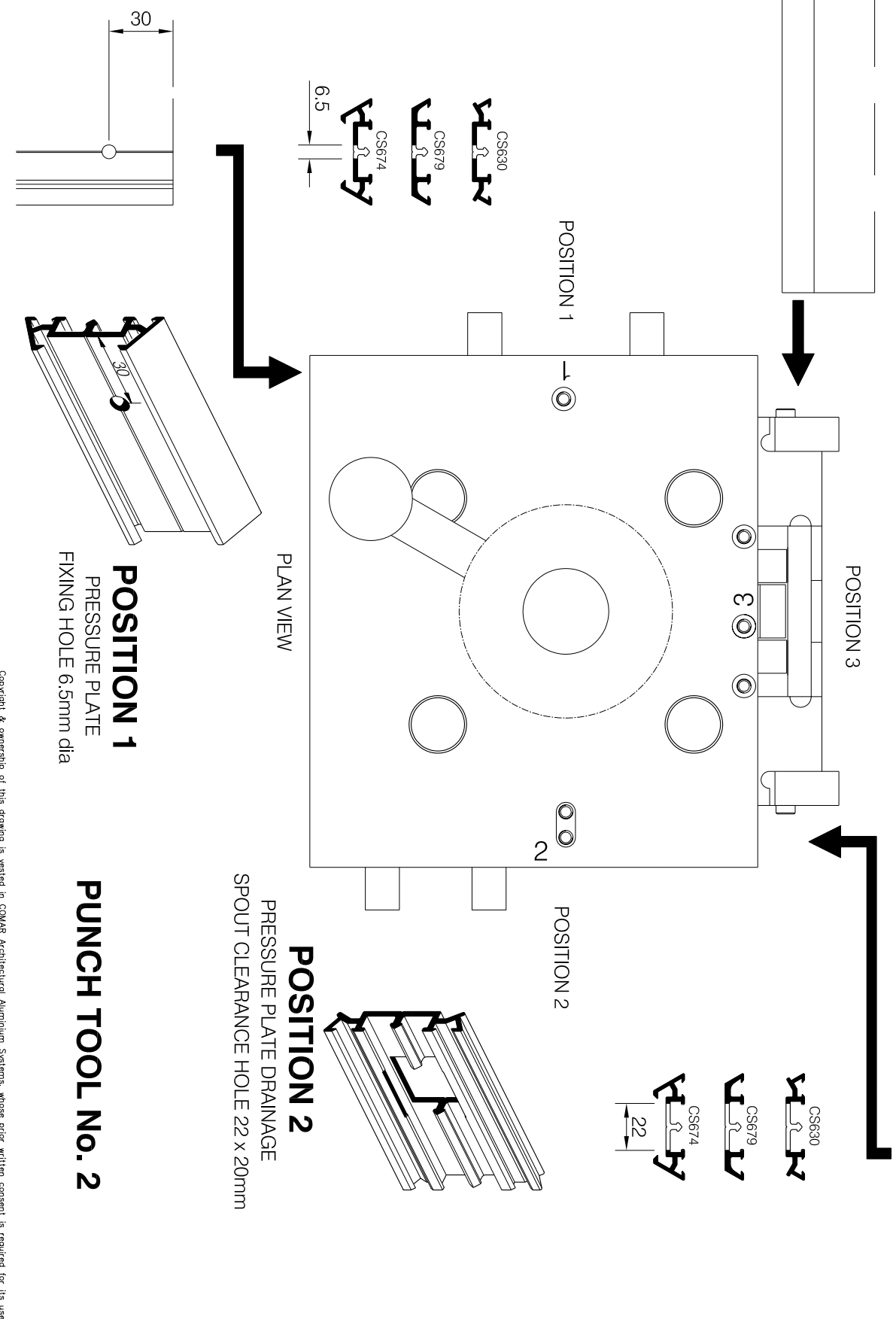
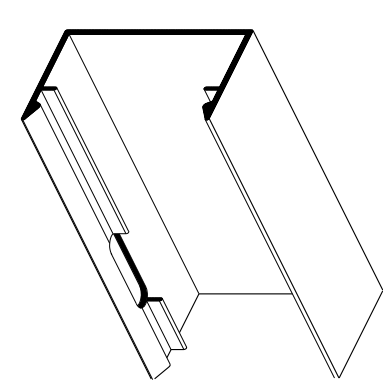
CURTAIN WALLING
COMAR 6 STICK BUILD SYSTEM
PUNCH AND JIG TOOLING OPTIONS
TRANSOM PUNCH TOOLING PREPARATION

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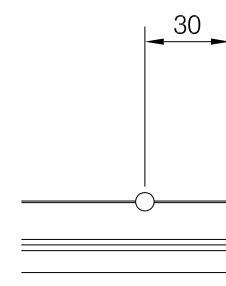
comar 6 Stick				
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DATE	10/08/06	DWG. No.	C6-SB-2.11	R1



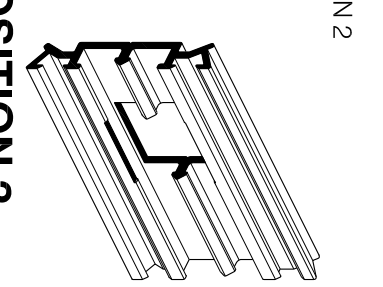
POSITION 3
COVER CAP DRAINAGE
SLOTTED HOLES 25 x 6mm

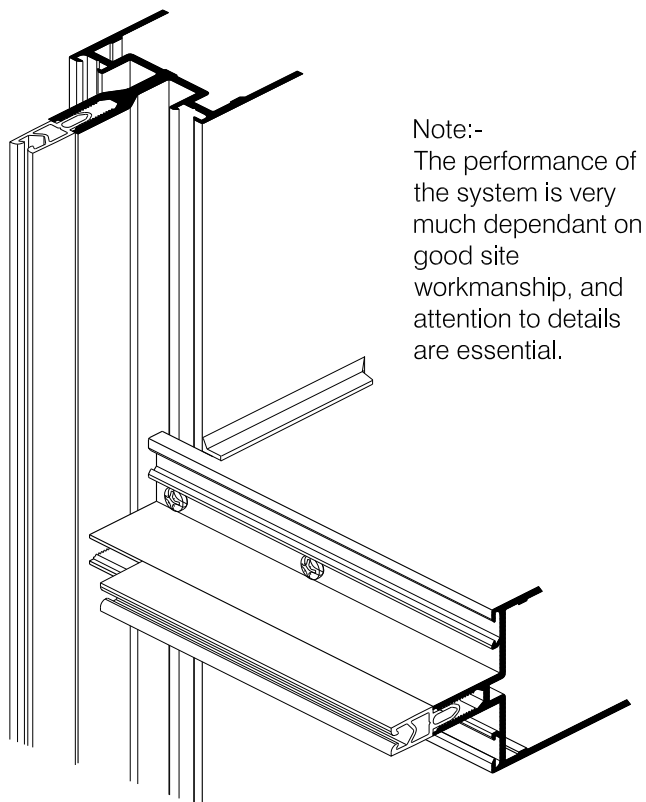


POSITION 1
PRESSURE PLATE
FIXING HOLE 6.5mm dia

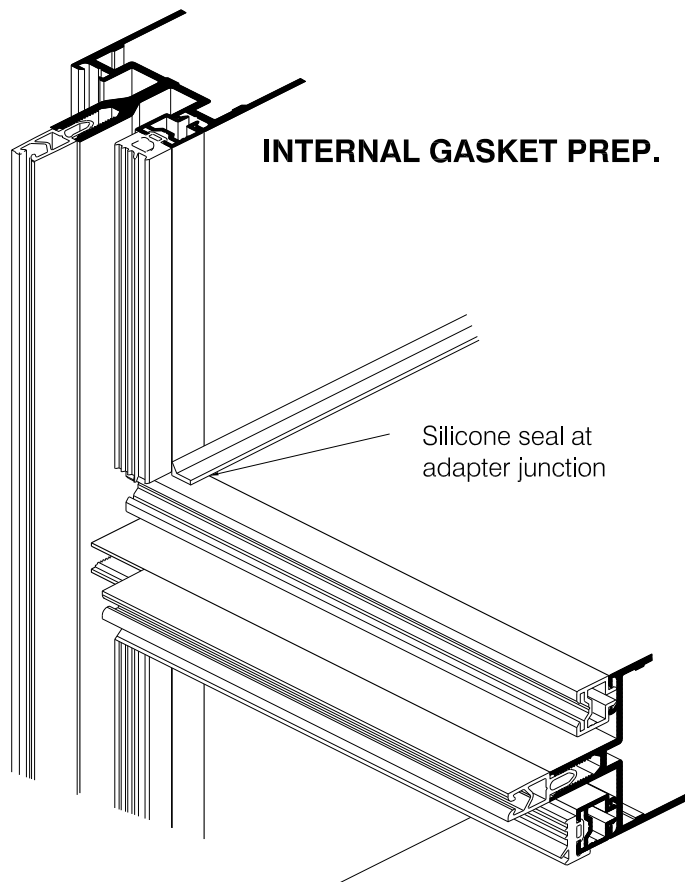


POSITION 2
PRESSURE PLATE DRAINAGE
SPOUT CLEARANCE HOLE 22 x 20mm





Note:-
The performance of the system is very much dependant on good site workmanship, and attention to details are essential.



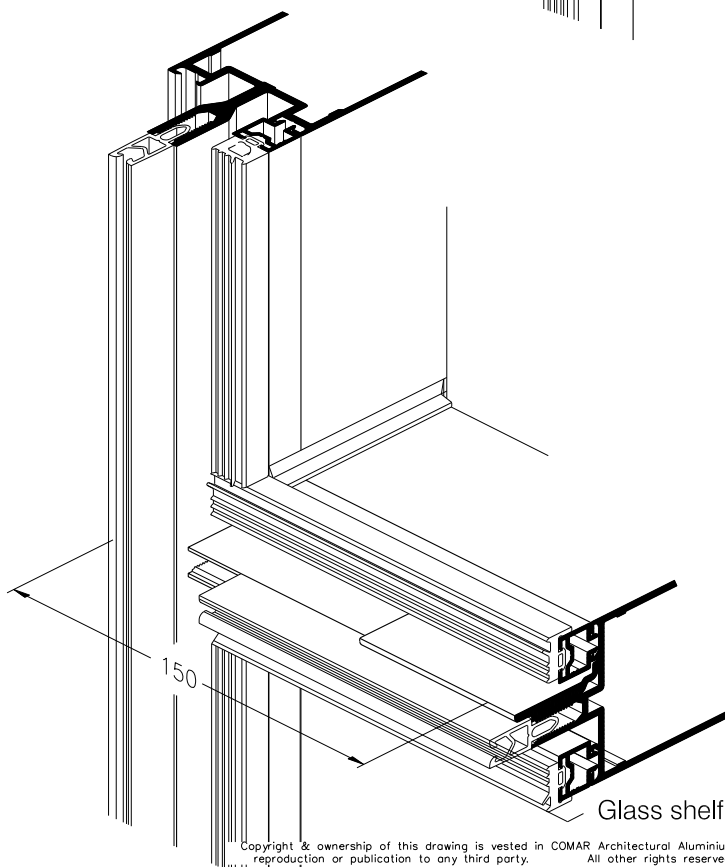
INTERNAL GASKET PREP.

Silicone seal at adapter junction

Adapter Prep:-

A. Horizontal adapter to be cut the same length as transom.

B. The junction between the adapters being cleanly sealed with silicone.

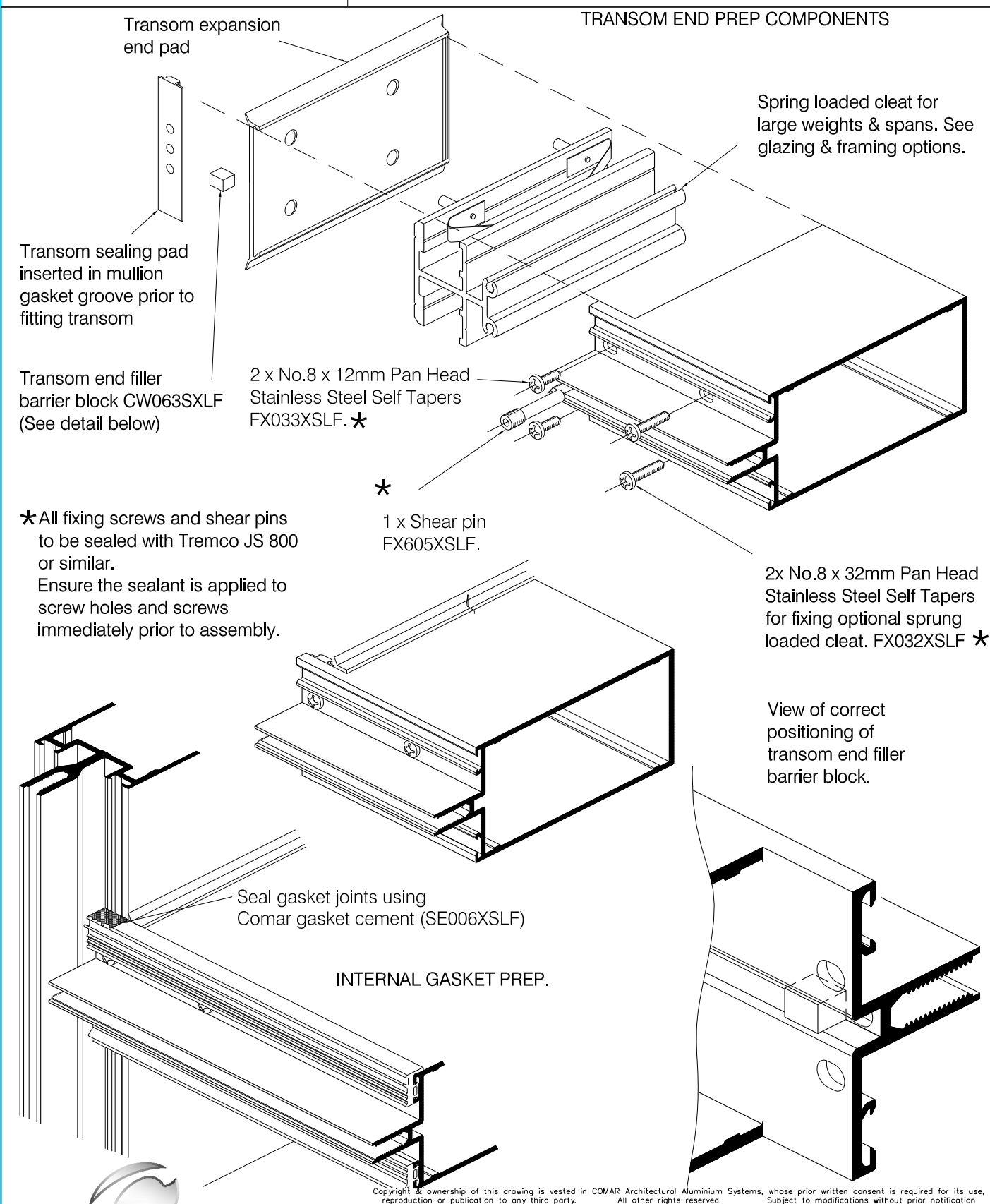


Glass shelf positioning

Gasket Prep:-

Special attention must be given to the internal corner gasket joint to achieve an Air/Water tight seal. The junction between all gaskets being cleanly sealed with Comar Gasket Cement SE006XSLF.





Gasket prep:-

Special attention must be given to the internal corner gasket joint to achieve an air/water tight seal.

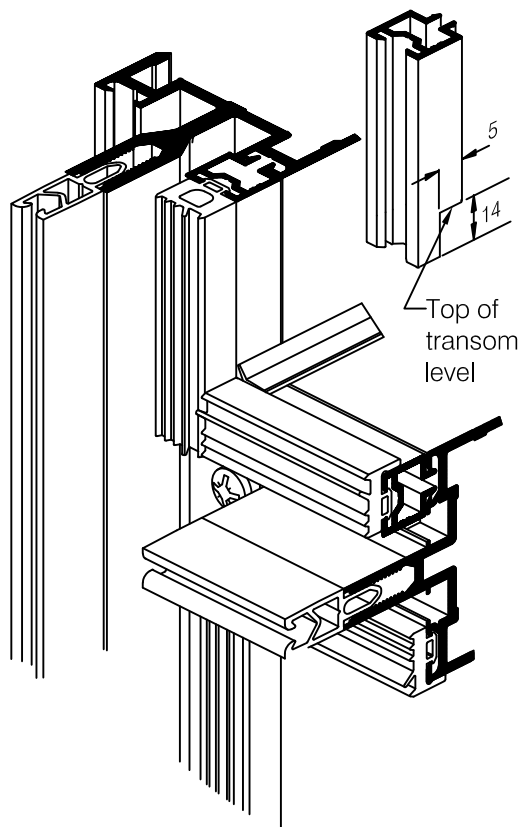
A. The vertical gasket abuts the horizontal gasket as shown.

B. The junction between all gaskets being cleanly sealed with Comar Gasket Sealant SE006XSFL.

Adapter prep:-

A. Adapter to be notched as shown to step over end bracket CW603XSFL.

B. Note that the pre-formed gasket can not be used with the adapter.



INTERNAL GASKET PREP

INTERNAL ADAPTER PREP

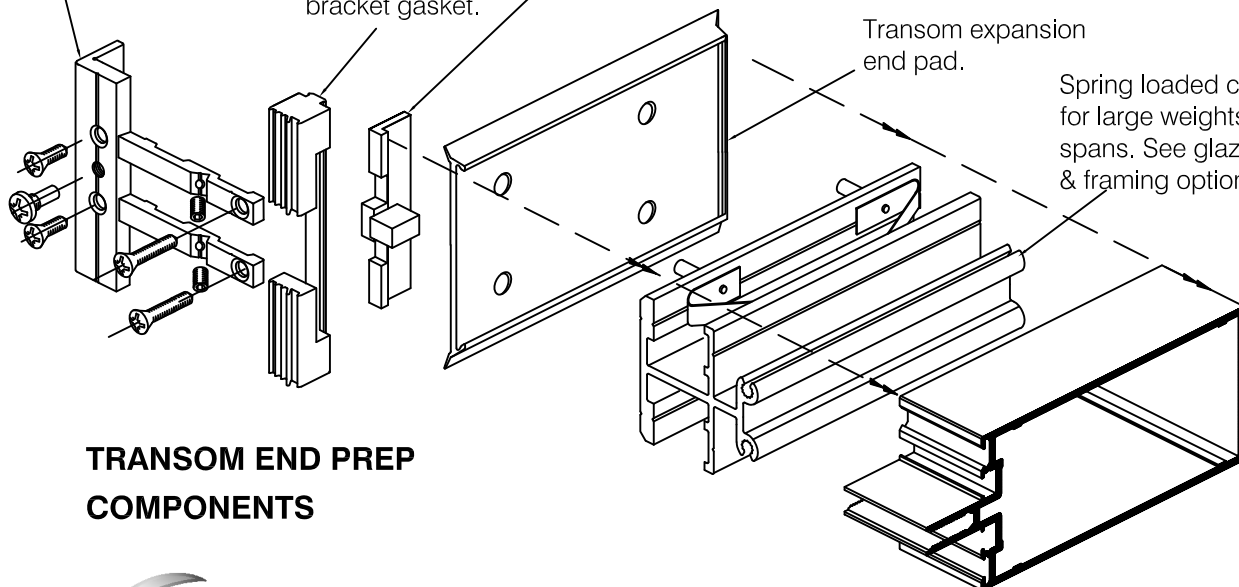
Square cut transom end bracket CW603XKIT.

Pre-formed end bracket gasket.

Transom end water Barrier block (CW064XSFL).

Transom expansion end pad.

Spring loaded cleat for large weights & spans. See glazing & framing option.



TRANSOM END PREP COMPONENTS



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DATE	05/04/2019	
DRAWN	BB	
DRG. No.	C6-SB-3.02 R0	

Note:-

The performance of the system is very much dependant upon good site workmanship, and attention to details are essential.

Adapter prep:-

A. Adapter to be notched as shown to step over end bracket CW603XSFL.

B. Note that the pre-formed gasket can not be used with the adapter.

* All fixing screws and shear pins to be sealed with Tremco JS 800 or similar. Ensure the sealant is applied to screw holes and screws immediately prior to assembly.

* Transom fixed to mullion with 2 x No8 x 16mm CSK stainless steel self tapping screws FX034XSFL.

* Shear pin FX604XSFL.

Isolator to suit glazing depth

Transom clamping grub screw FX078XSFL

Note:-

CW603XSFL is supplied with the following components:-
FX034XSFL, FX078XSFL & FX604XSFL.

* 2 x No8 x 32mm CSK stainless steel self tapping screws (FX036XSFL) for fixing optional spring loaded cleat.



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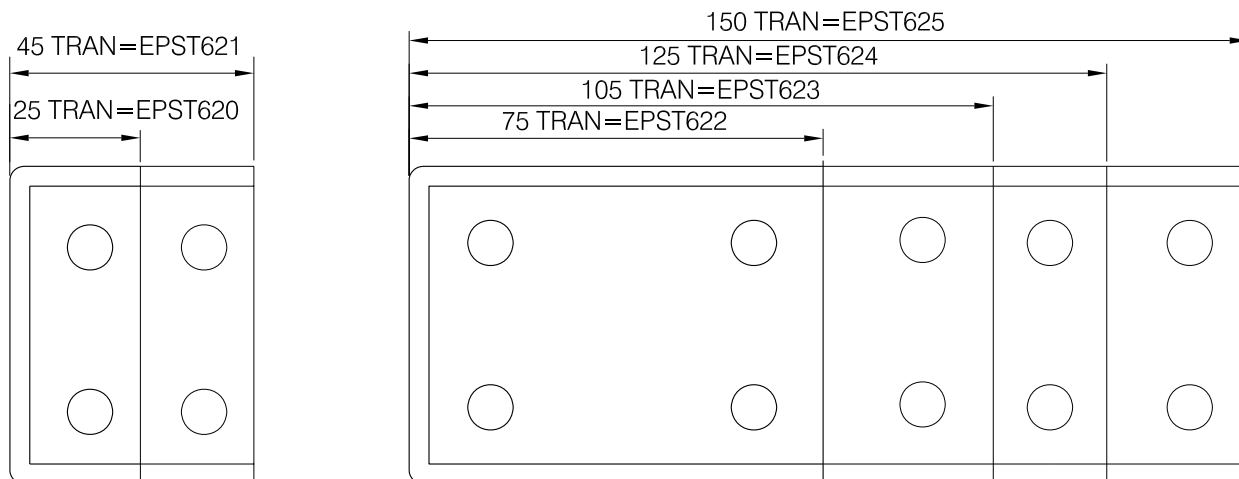


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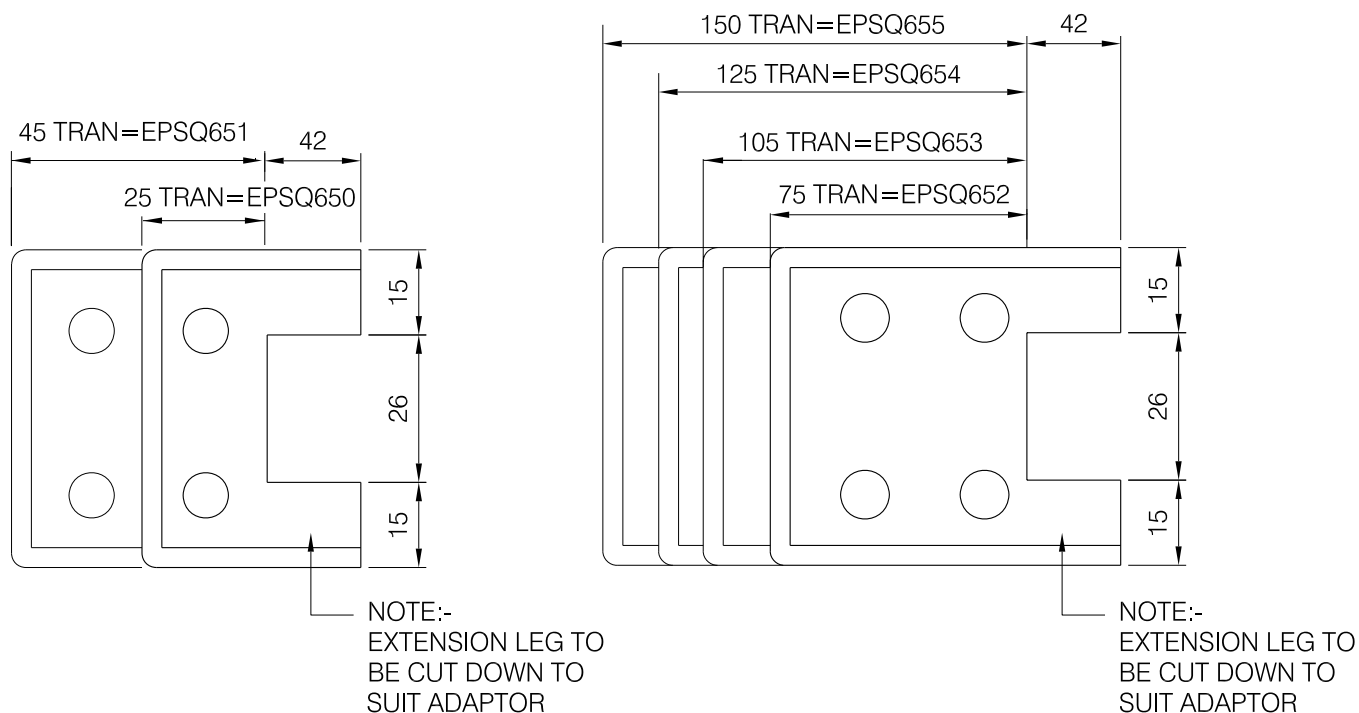
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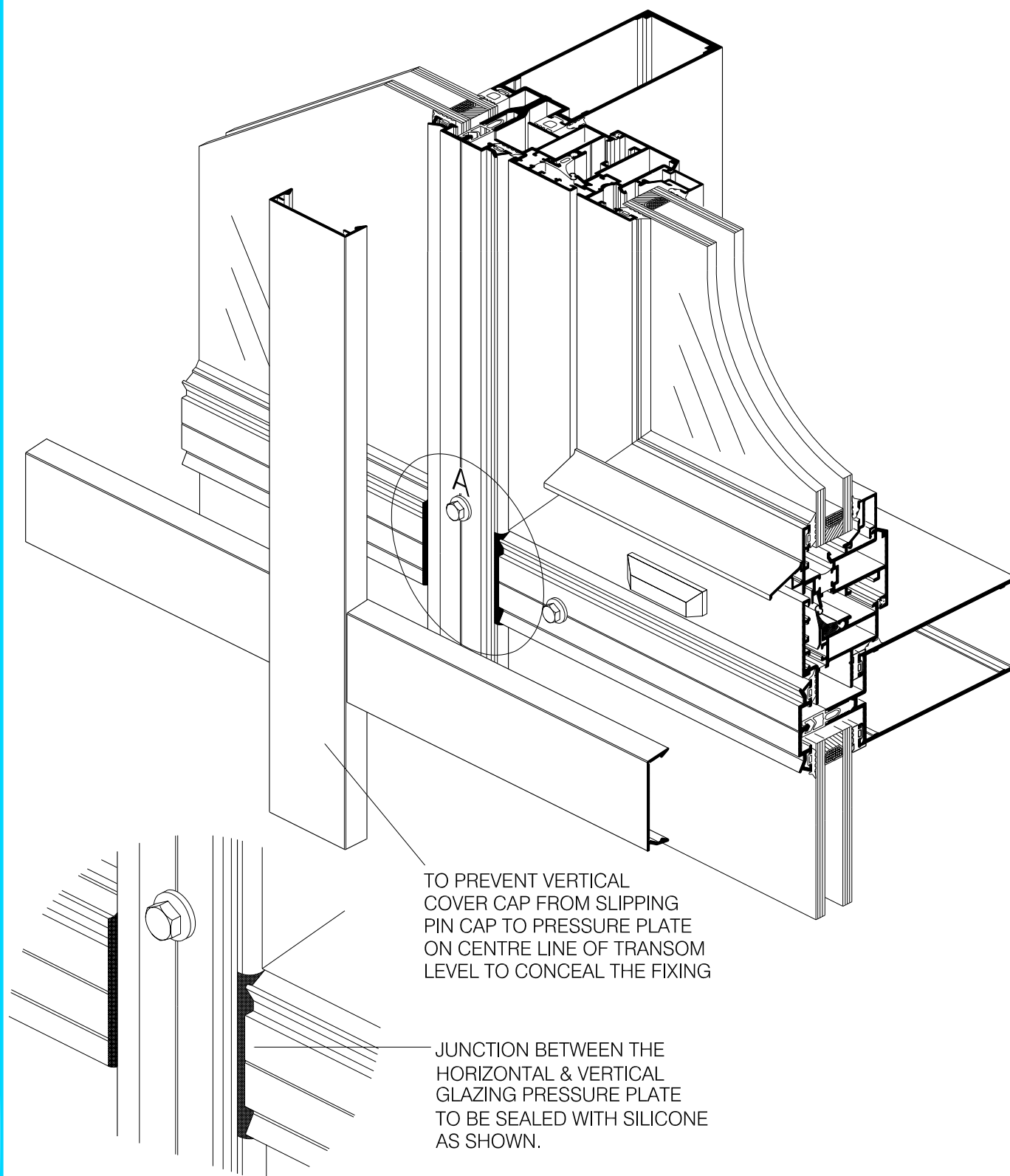
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DATE	05/04/2019	
DRAWN	BB	
DRG. No.	C6-SB-3.02.1 R0	

**EPDM STEP & SQUARE CUT
TRANSOM END PADS**



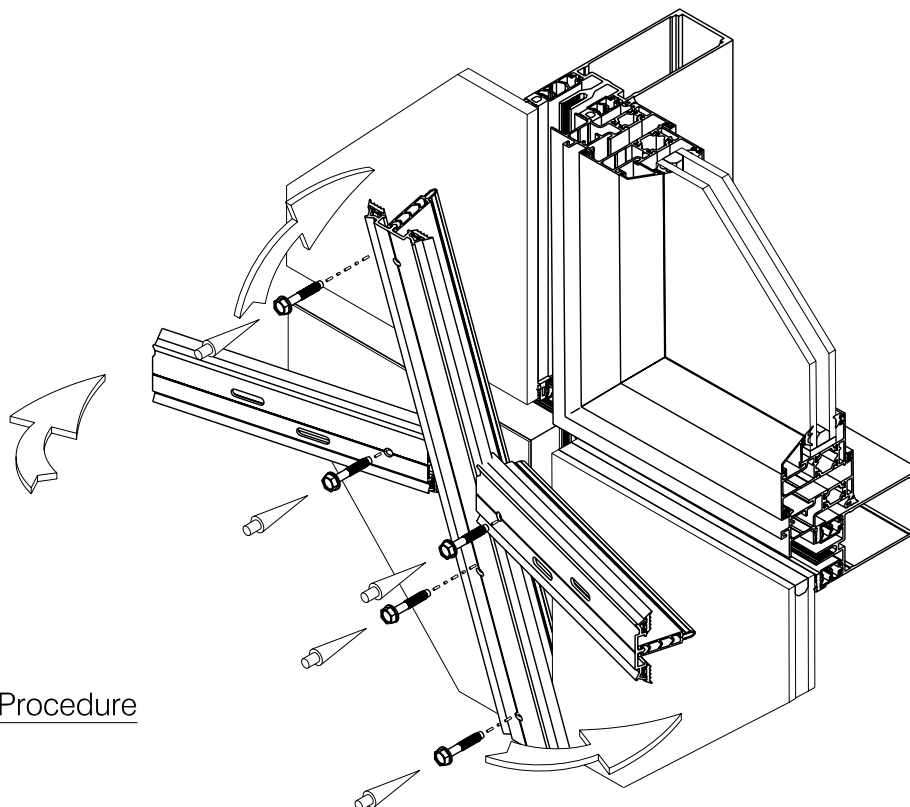
**EPDM STEP & SQUARE CUT TRANSOM
END PADS FOR USE WITH ADAPTERS**





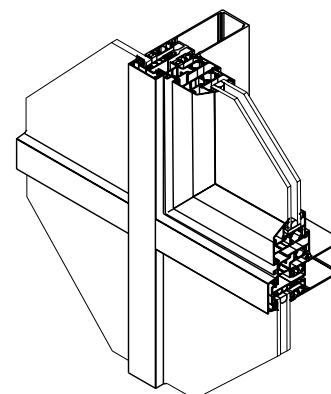
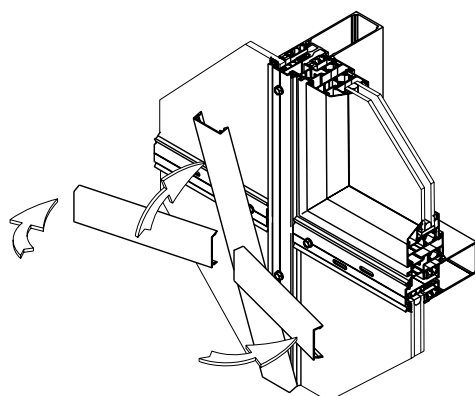
EXTERNAL PREP' DETAIL 'A'





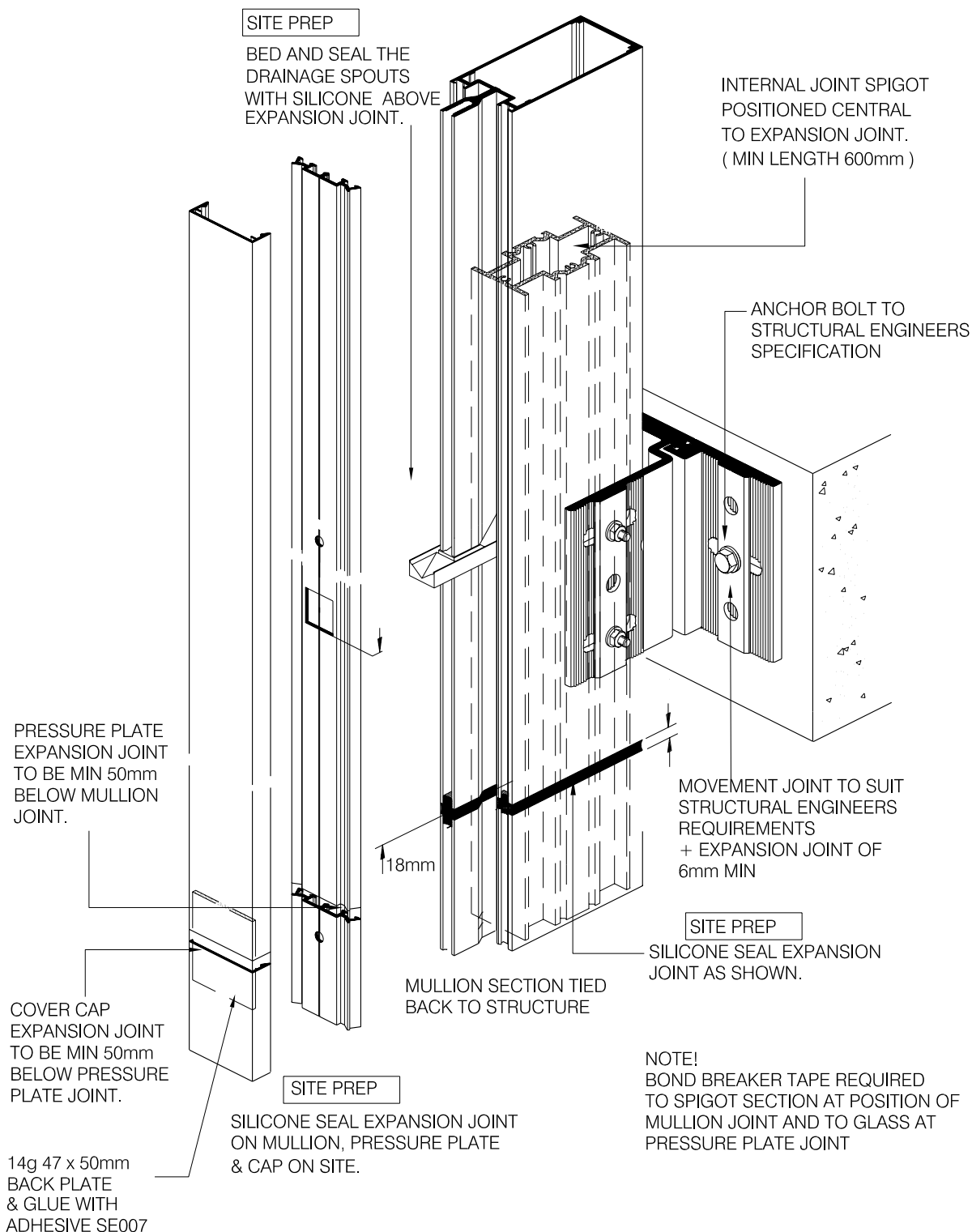
Installation Procedure

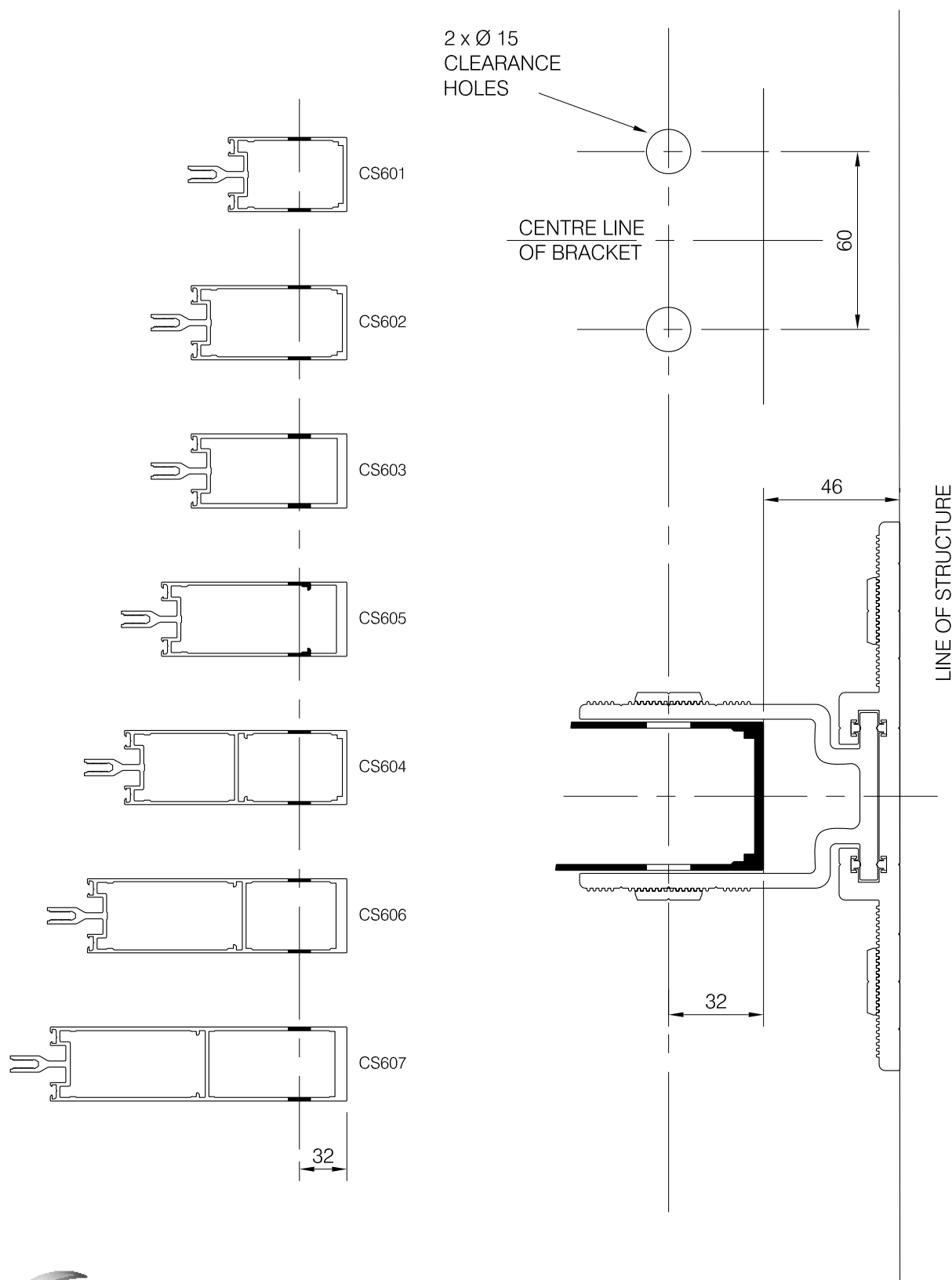
- Insert internal gaskets to mullions and transom profiles.
- Position glass on setting blocks ensuring all glass layers are supported and pack glass in accordance with BS6262
- Align pressure plate, with external gaskets and isolator, with the curtain wall nosing of the mullions/transoms.
- Push the pressure plate firmly into position using a soft faced mallet if necessary. (1)
- Insert bolts and tighten to the correct torque. (wrench setting 7 N-m / 5.5 lbf-ft)
- Fit cap by pressing into place (use a lubricant if necessary).(2)



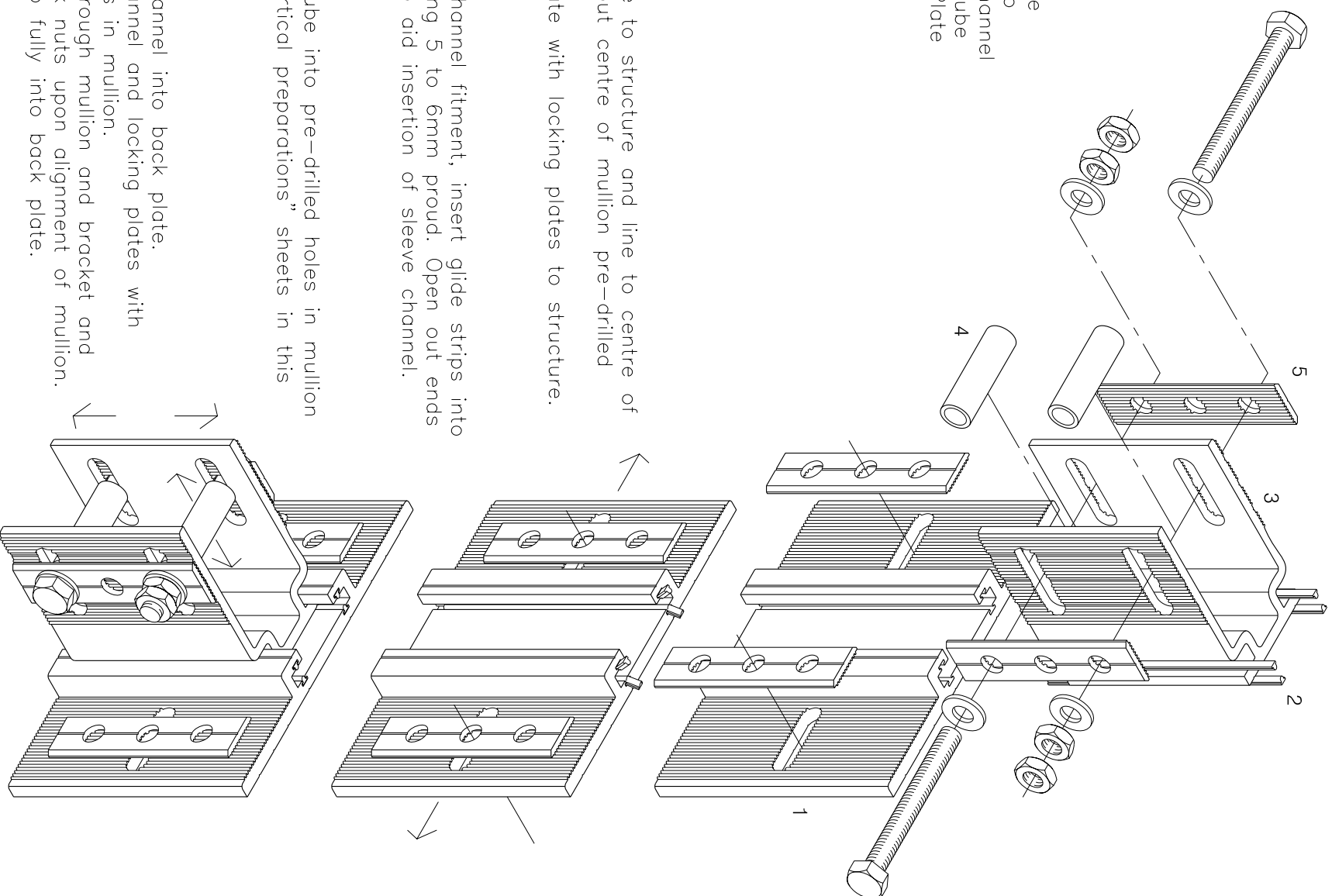
- (1) Isolator must be fully inserted to ensure the correct compression on the glass and prevent the pressure plate seating further when fitting the cover caps.
- (2) Cover caps should be fitted by hand with the aid of a lubricant if necessary. In extreme cases the cap may be tapped softly spreading the impact with a piece of timber or soft material.







- 1 Back Plate
- 2 Glide Strip
- 3 Sleeve Channel
- 4 Bearing Tube
- 5 Locking Plate



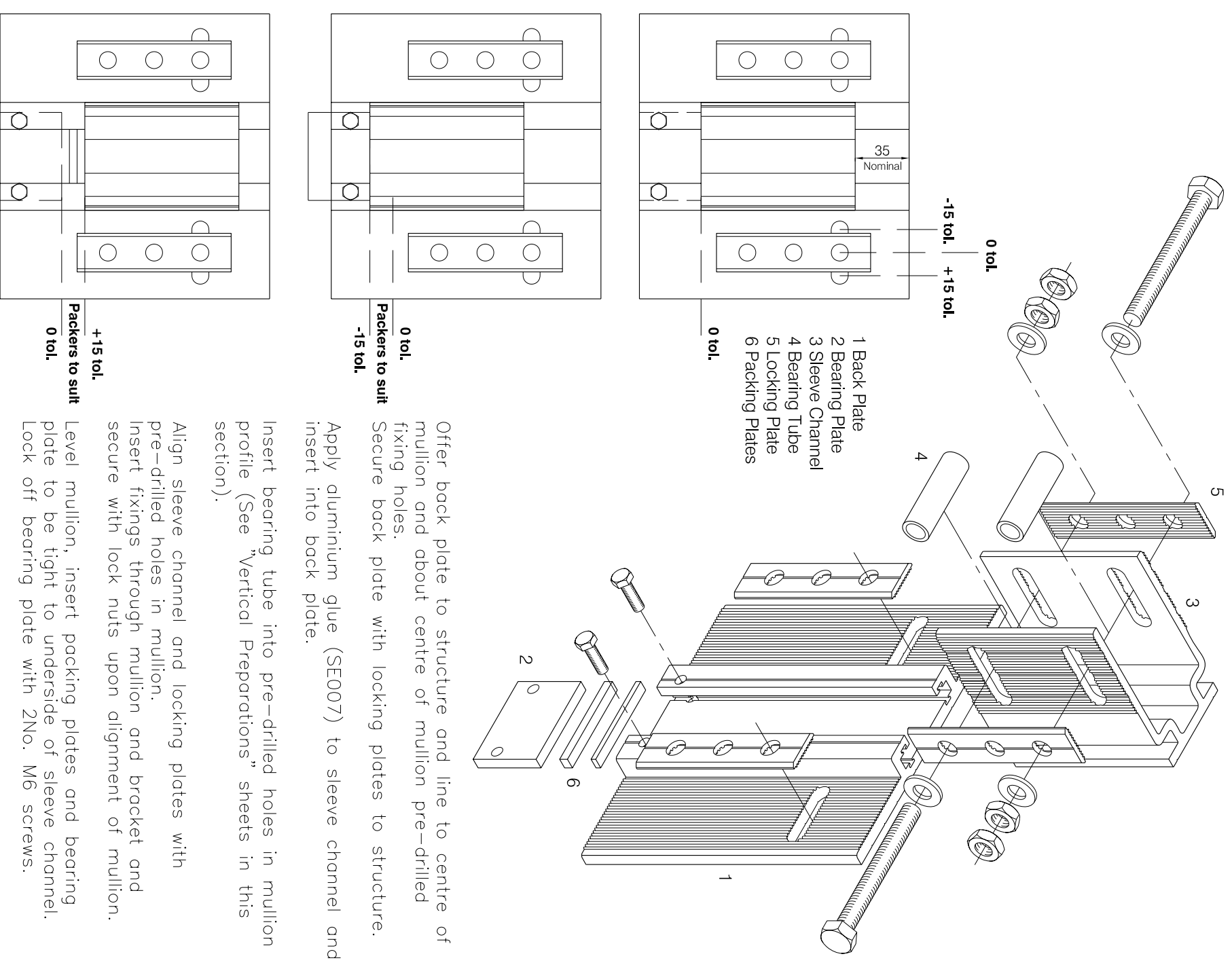
Offer back plate to structure and line to centre of mullion and about centre of mullion pre-drilled fixing holes.
Secure back plate with locking plates to structure.

To aid sleeve channel fitment, insert glide strips into back plate leaving 5 to 6mm proud. Open out ends of glide strip to aid insertion of sleeve channel.

Insert bearing tube into pre-drilled holes in mullion profile (See "Vertical preparations" sheets in this section).

Insert sleeve channel into back plate.
Align sleeve channel and locking plates with pre-drilled holes in mullion.

Insert fixings through mullion and bracket and secure with lock nuts upon alignment of mullion.
Insert glide strip fully into back plate.



0 tol.
-15 tol. +15 tol.

- 1 Back Plate
- 2 Bearing Plate
- 3 Sleeve Channel
- 4 Bearing Tube
- 5 Locking Plate
- 6 Packing Plates

Offer back plate to structure and line to centre of mullion and about centre of mullion pre-drilled fixing holes.
Secure back plate with locking plates to structure.

Apply aluminium glue (SE007) to sleeve channel and insert into back plate.

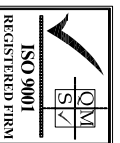
Insert bearing tube into pre-drilled holes in mullion profile (See "Vertical Preparations" sheets in this section).

Align sleeve channel and locking plates with pre-drilled holes in mullion.
Insert fixings through mullion and bracket and secure with lock nuts upon alignment of mullion.

Level mullion, insert packing plates and bearing plate to be tight to underside of sleeve channel.
Lock off bearing plate with 2No. M6 screws.



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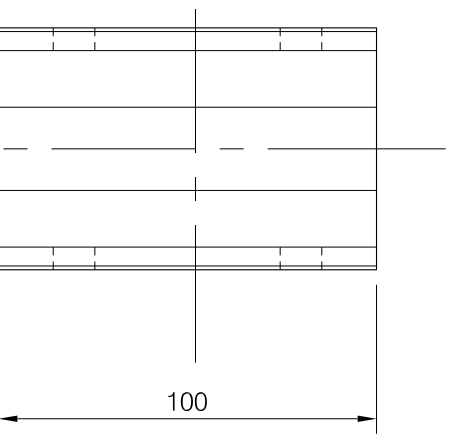
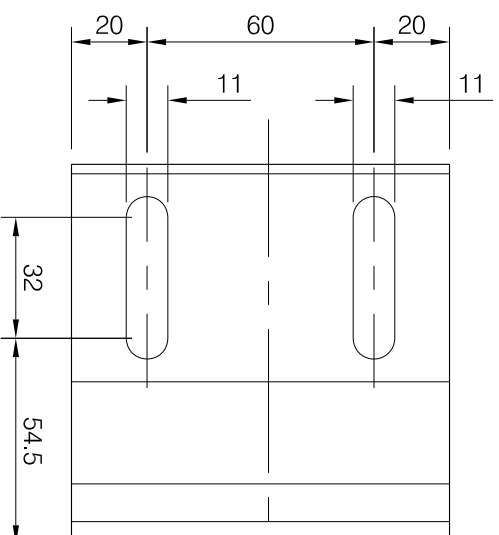
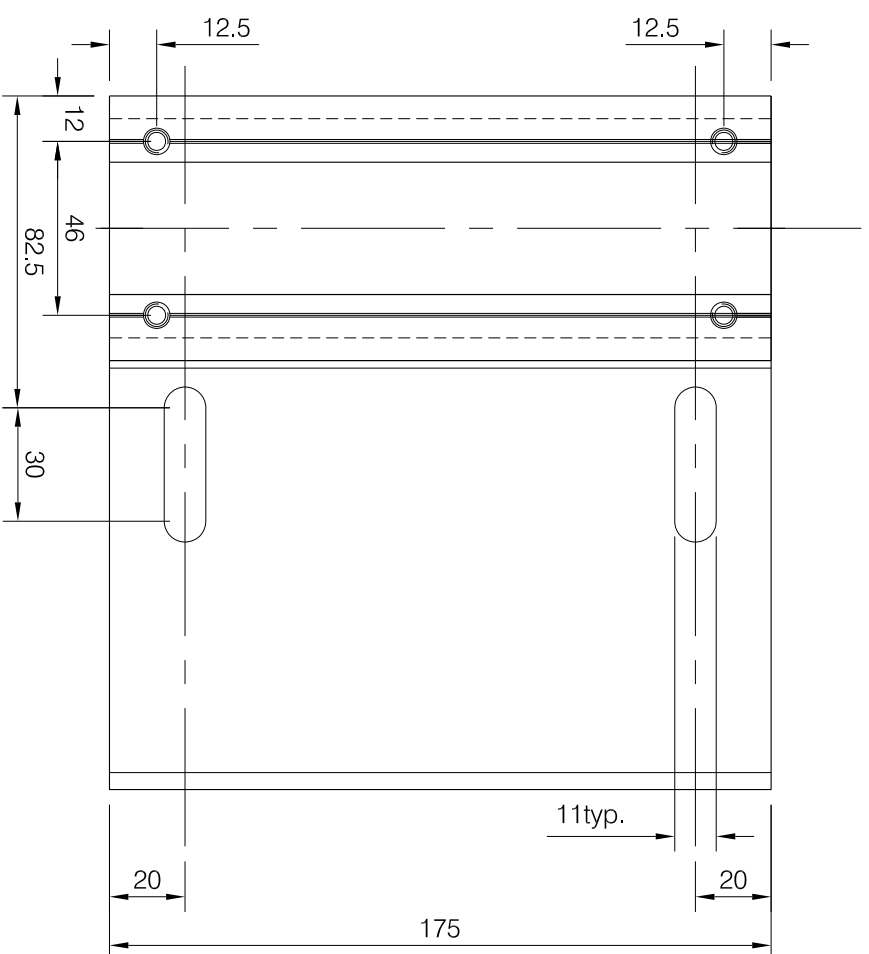
CURTAIN WALLING
COMAR 6 STICK BUILD SYSTEM
FIXING BRACKET INSTRUCTIONS
BRACKET FITMENT AND ALIGNMENT GUIDE

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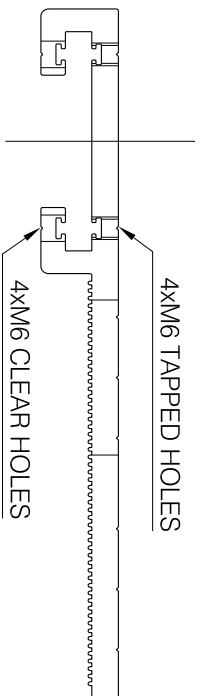
comar 6 Stick

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DATE	09/08/06	DRC. No.	C6-SB-3.08 R1	

FIXING KIT - CW671XSLE



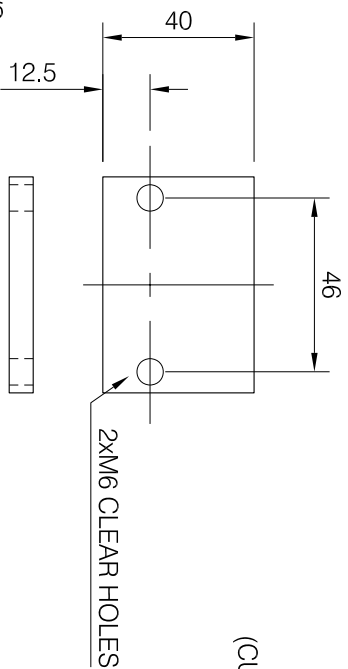
Aluminium glue to be applied before assembly (SE007)
Not supplied in kit.



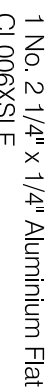
(CUT FROM CS904)



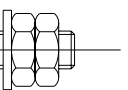
2 No. M6x20mm SCREWS
FX676XSLF



(CUT FROM CS902)



1 No. 2 1/4" x 1/4" Aluminium Flat
CL006XSLF

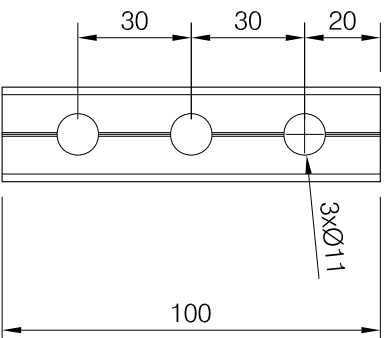
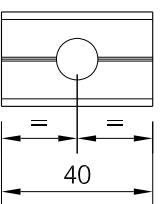


4 No. M10 Locking Nuts.
FX673XS_LF

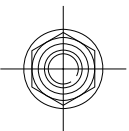
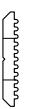


2mm packer - CL012XSLE (pack of 10)
3mm packer - CL013XSLE (pack of 10)

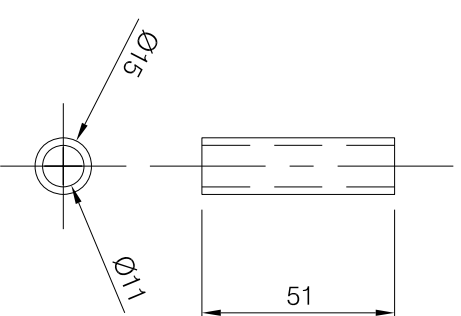
Packers are purchased as separate item.



(CUT FROM CS903)



4 No. M10 Nylon Washers.
FX674XSLF



2 No. Aluminium Tubes.
FX675XSLF



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KIT COMPRISES

- 1 No. CS902 Component
- 1 No. CS904 Component
- 2 No. CS903 40mm Component
- 2 No. CS903 100mm Component
- 1 No. Aluminium Flat. CL006XSLF
- 2 No. Aluminium Tubes. FX675XSLF
- 4 No. M10 Locking Nuts. FX673XSLF
- 2 No. M10 x 90mm Hex Head Bolts.

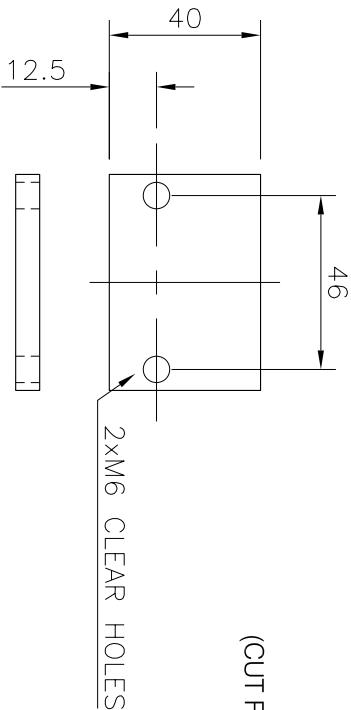
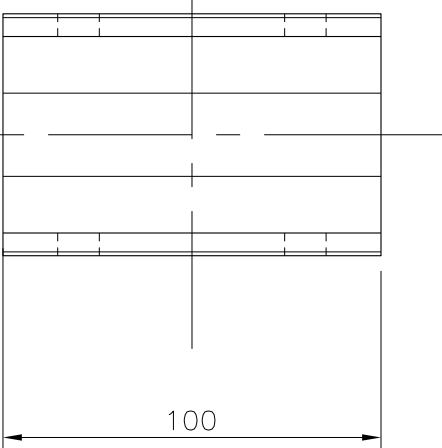
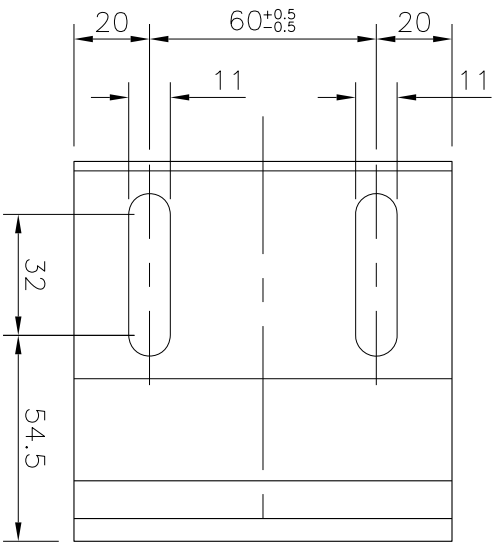
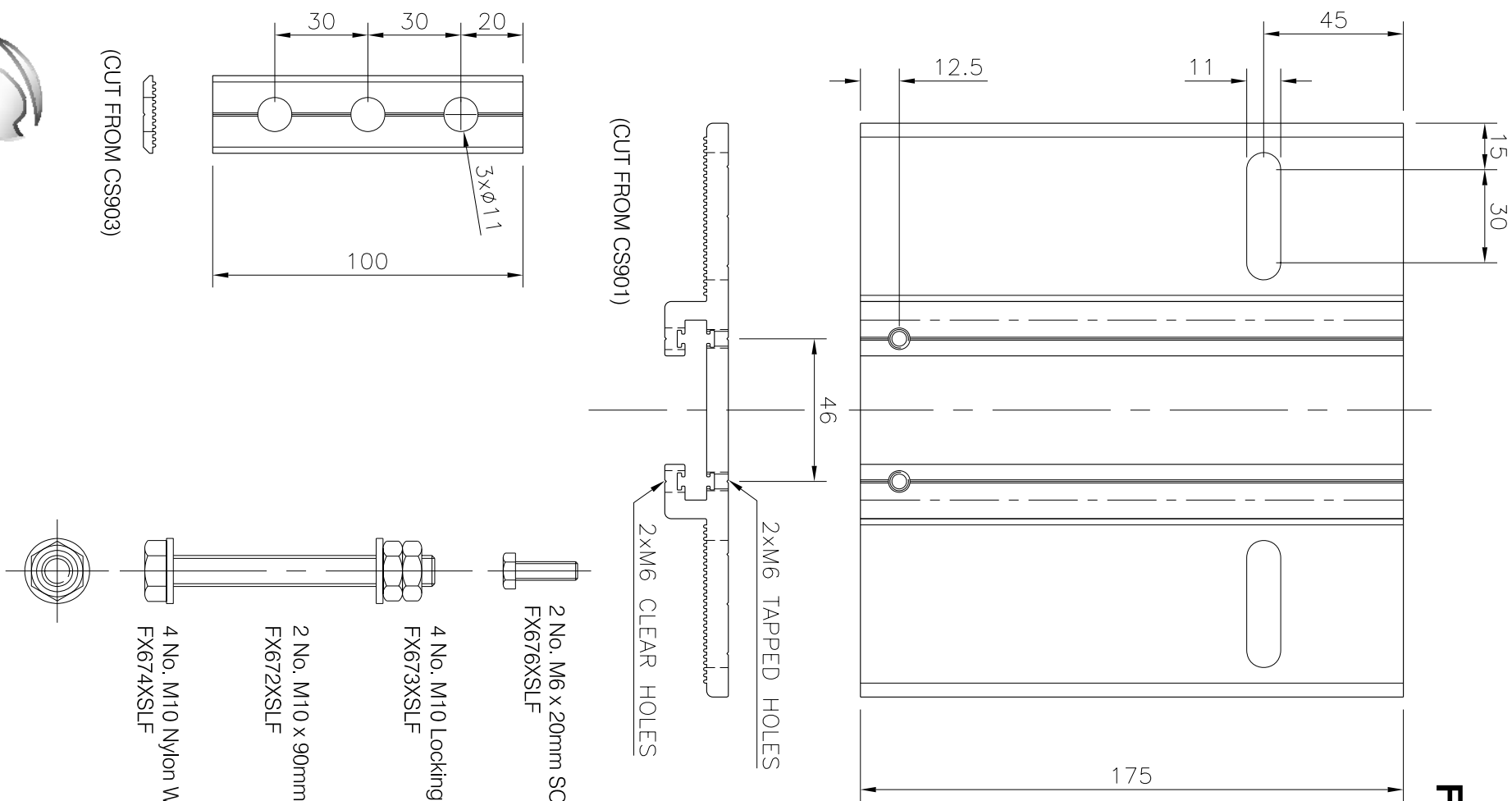
FX672XSLF

- 4 No. M10 Nylon Washers. FX674XSLF
- 2 No. M6X20mm screws. FX676XSLF

**CURTAIN WALLING
COMAR 6 STICK BUILD SYSTEM
FIXING BRACKET KIT CW 671 XSLF
JAMB FIXED BRACKET COMPONENTS**

comar 6 Stick			
DRAWN	AF	SCALE	1:2 @A3
DATE	09./08./06	DRG. No.	C6-SB-3.09 R1

FIXING BRACKET KIT - CW672XS1F



(CUT FROM CS902)

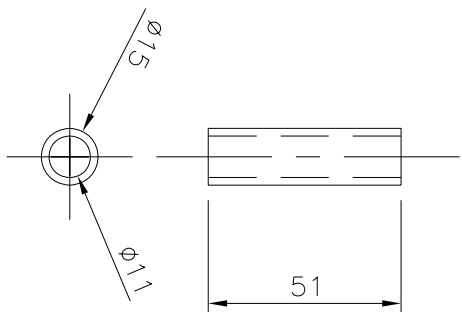
Aluminium glue to be applied before assembly (SE007)
Not supplied in kit.

1 No. 2 1/4" x 1/4" Aluminium Flat
CL006XS1F

2mm packer - CL012XS1F (pack of 10)
3mm packer - CL013XS1F (pack of 10)

Packers are purchased as separate items.

2 No. Aluminium Tubes.
FX675XS1F



KIT COMPRISES

- 1 No. CS901 Component
- 1 No. CS902 Component
- 4 No. CS903 Components
- 1 No. Aluminium Flat. CL006XS1F
- 2 No. Aluminium Tubes. FX675XS1F
- 4 No. M10 Locking Nuts. FX673XS1F
- 2 No. M10 x 90mm Hex Head Bolts. FX672XS1F
- 4 No. M10 Nylon Washers. FX674XS1F
- 2 No. M6 x 20mm screws. FX676XS1F



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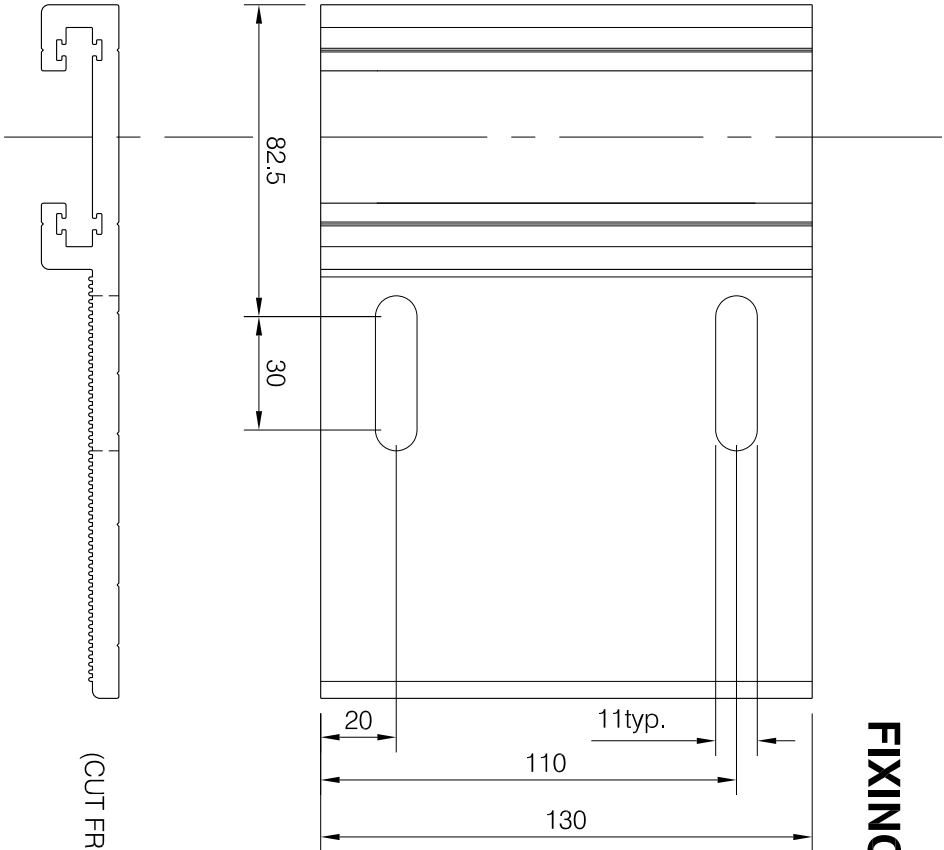
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CURTAIN WALLING
COMAR 6 STICK BUILD SYSTEM
FIXING BRACKET KIT CW 672 XS1F
INTERMEDIATE FIXED BRACKET COMPONENTS

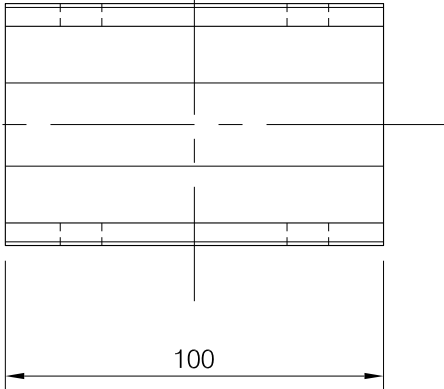
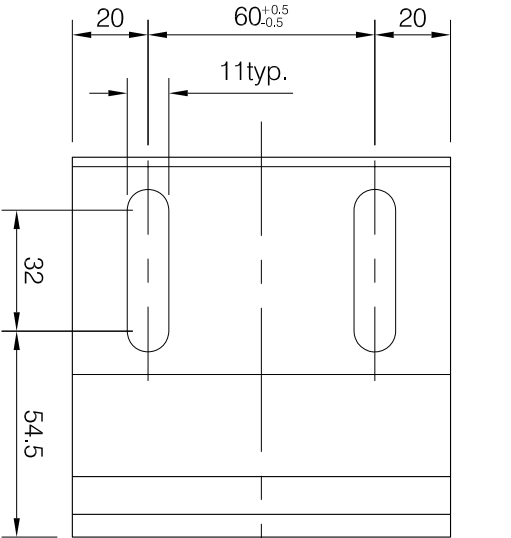
comar 6 Stick			
DRAWN	AF	SCALE	1:2
DATE	09/08/06	DWG. No.	C6-SB-3.10 R1

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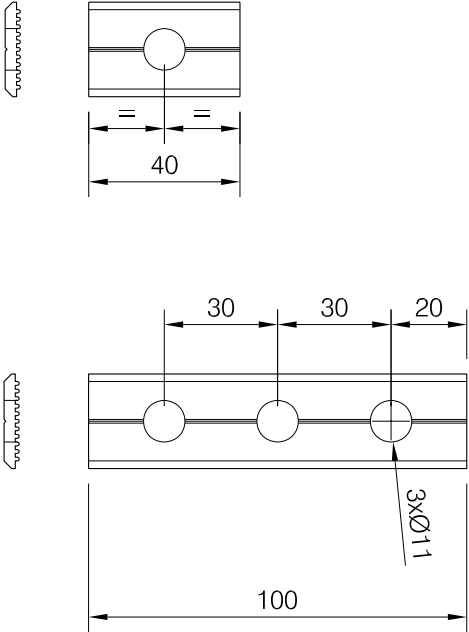
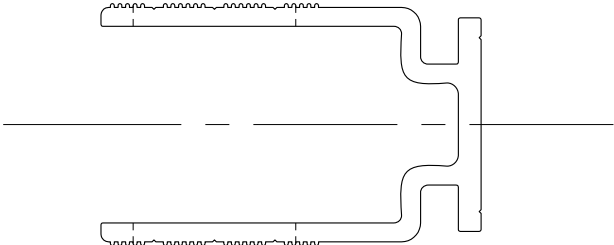
FIXING BRACKET KIT - CW673XSLF



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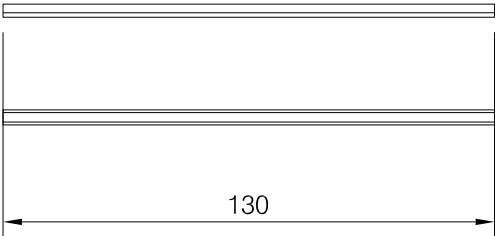


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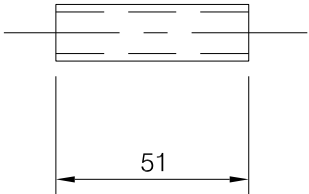
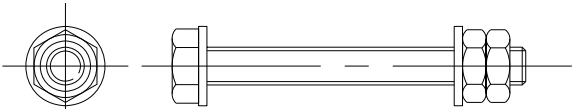


(CUT FROM CS903)

(CUT FROM CS903)



4No. Req'd cut from GK55.
Not supplied in kit.



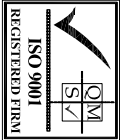
2 No. Aluminium Tubes.
FX675XSLF

- KIT COMPRISES**
- 1 No. CS902 Component
 - 1 No. CS904 Component
 - 2 No. CS903 40mm Component
 - 2 No. CS903 100mm Component
 - 2 No. Aluminium Tubes. FX675XLSF
 - 4 No. M10 Locking Nuts. FX673XSLF
 - 2 No. M10 x 90mm Hex Head Bolts. FX672XSLF
 - 4 No. M10 Nylon Washers. FX674XSLF

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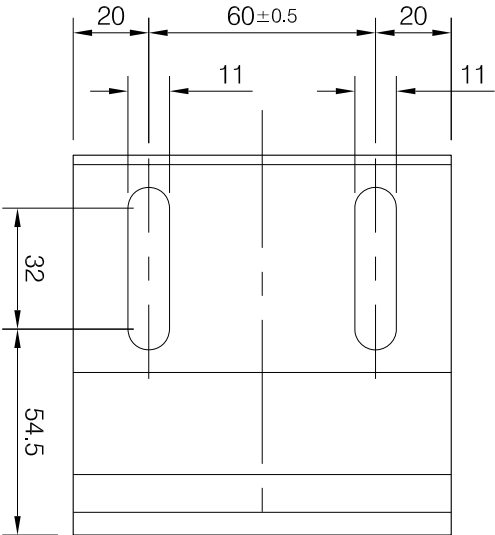
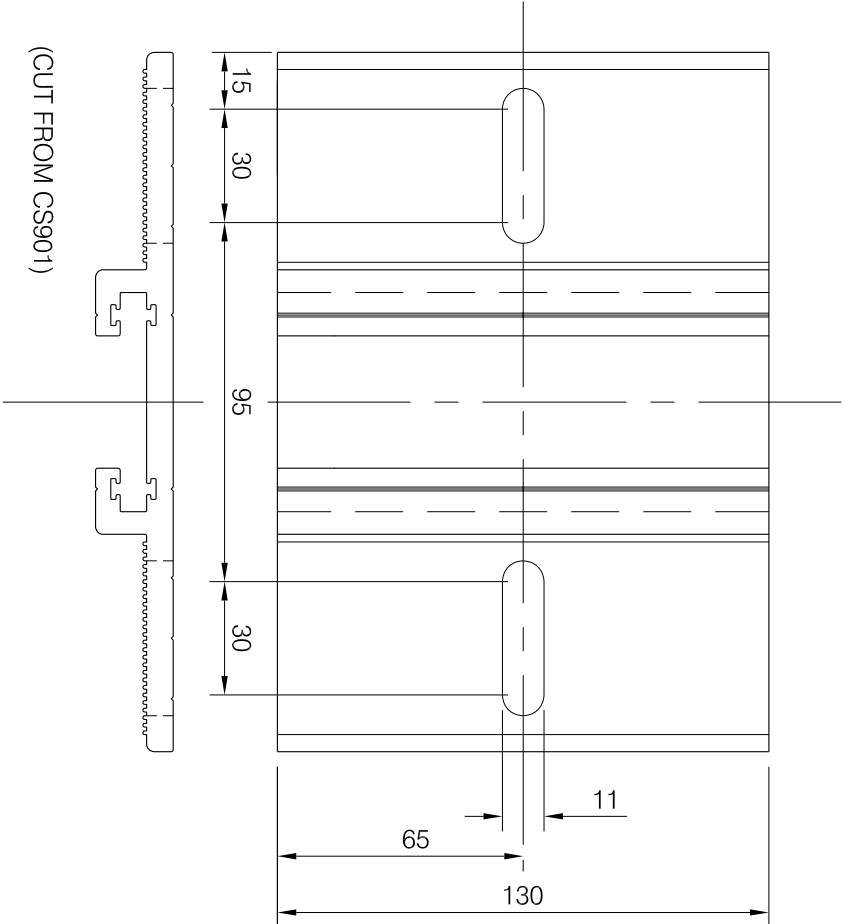


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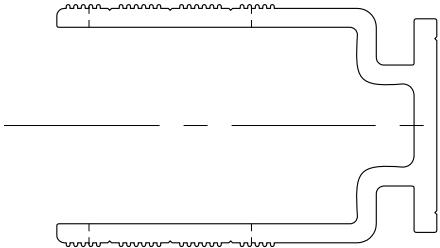
CURTAIN WALLING
COMAR 6 STICK BUILD SYSTEM
FIXING BRACKET KIT CW 673 XS/LF
JAMB SLIDING BRACKET COMPONENTS

comar 6 Stick			
DRAWN	AF	SCALE	1:2
DATE	09/08/06	DWG. No.	C6-SB-3.11 R1

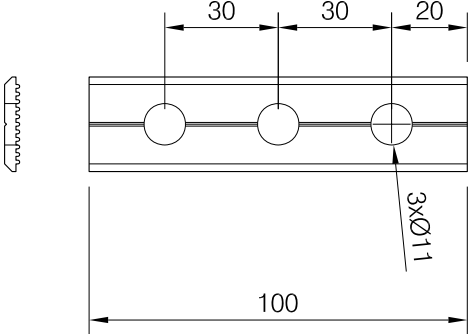
FIXING BRACKET KIT - CW674XSLF



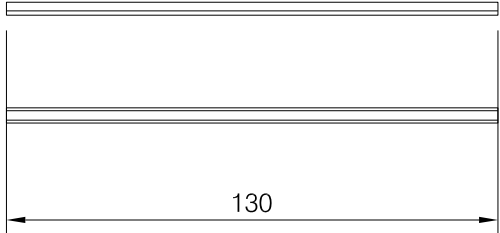
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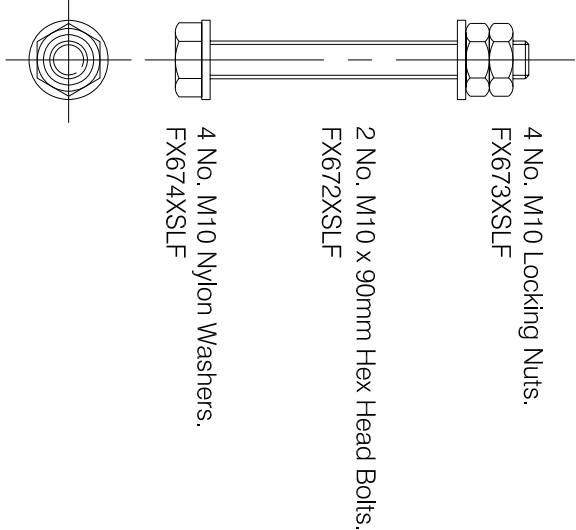
(CUT FROM CS901)



(CUT FROM CS903)



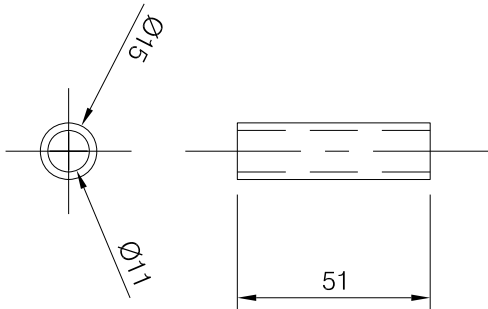
4No. Req'd cut from GK55.
Not supplied in kit.



4 No. M10 Locking Nuts.
FX673XSLF

2 No. M10 x 90mm Hex Head Bolts.
FX672XSLF

4 No. M10 Nylon Washers.
FX674XSLF



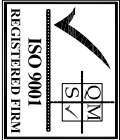
2 No. Aluminium Tubes.
FX675XSLF

1 No. CS901 Component
1 No. CS902 Component
4 No. CS903 Components
2 No. Aluminium Tubes. FX675XSLF
4 No. M10 Locking Nuts. FX673XSLF
2 No. M10 x 90mm Hex Head Bolts.
FX672XSLF
4 No. M10 Nylon Washers. FX674XSLF

KIT COMPRISES



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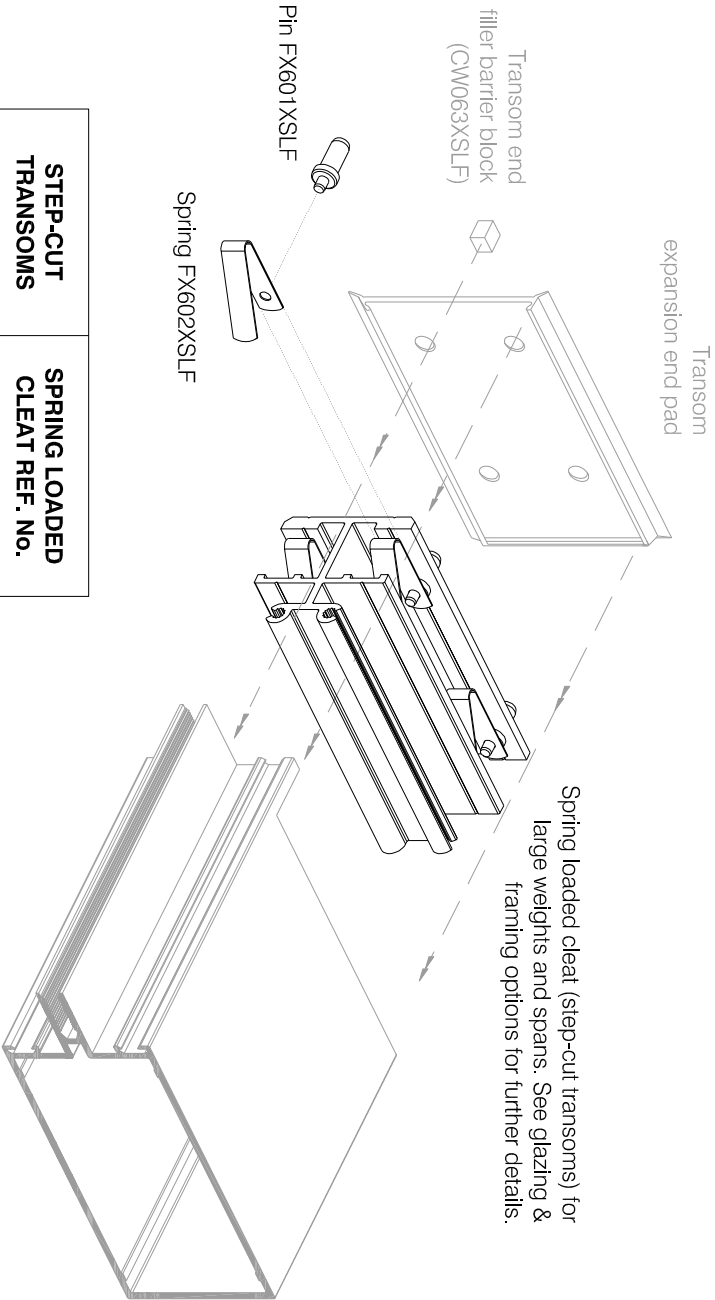
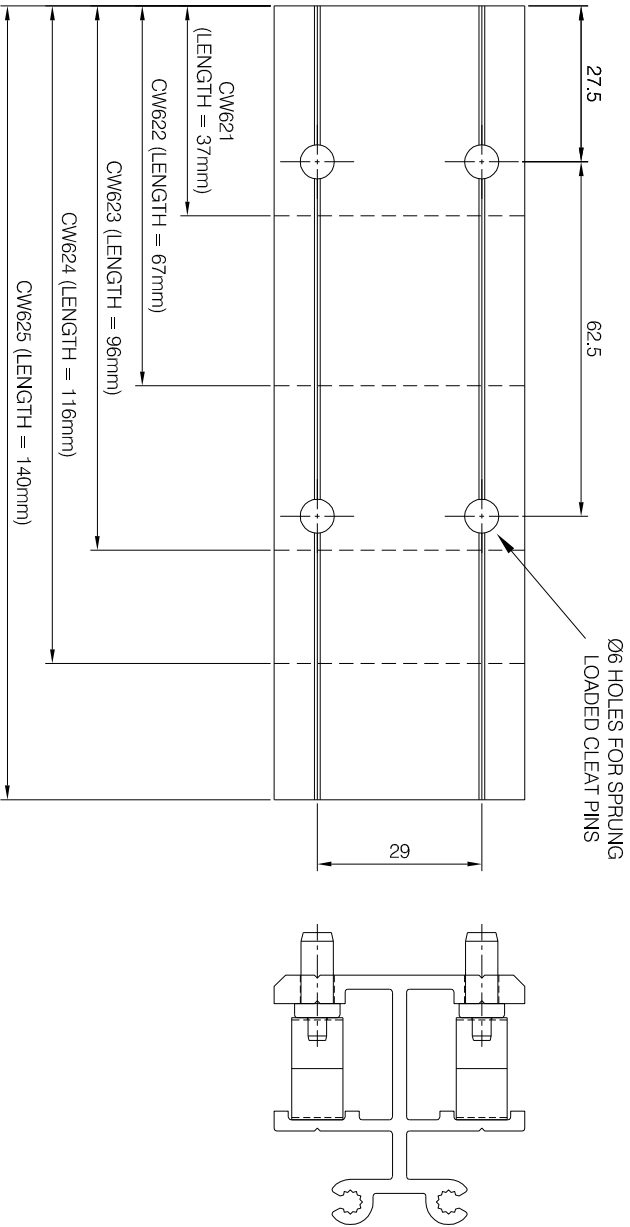
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COMAR 6 STICK BUILD SYSTEM
FIXING BRACKET KIT CW 674 XSLF
INTERMEDIATE SLIDING BRACKET COMPONENTS

comar 6 Stick			
DRAWN	AF	SCALE	1:2
DATE	09/08/06	DWG. No.	C6-SB-3.12 R1

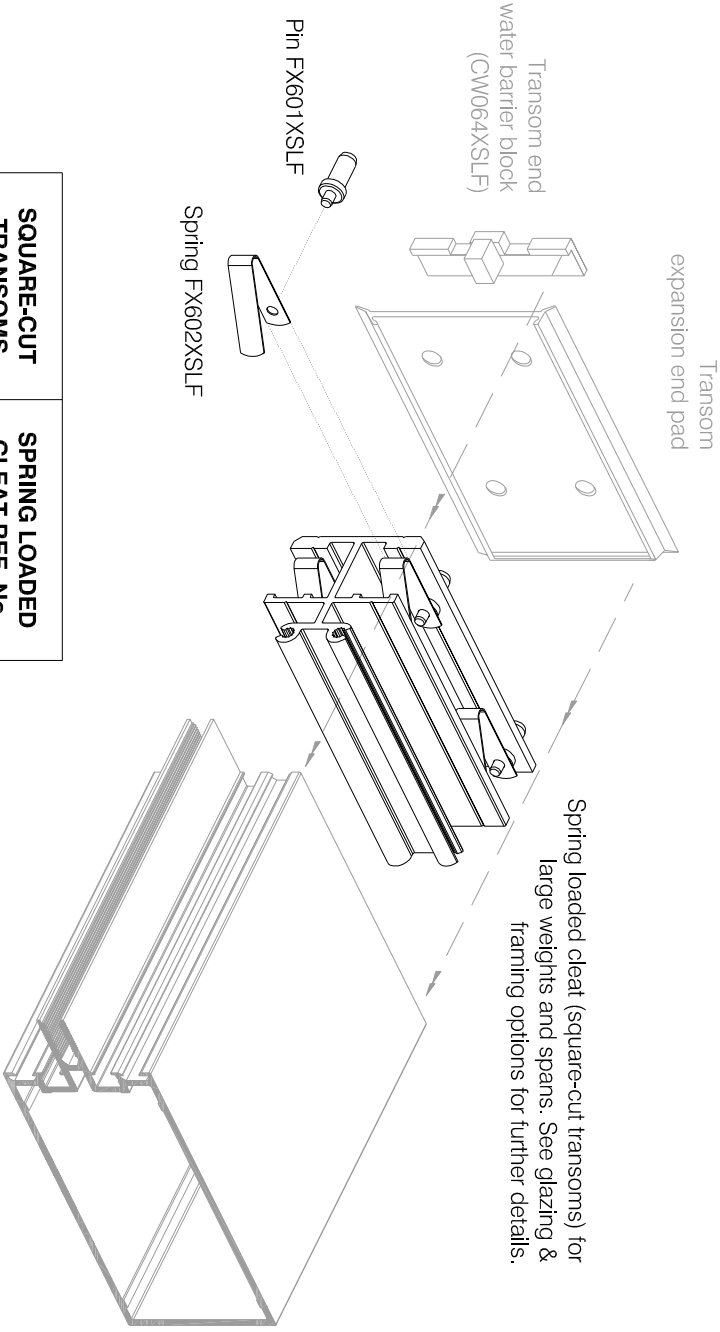
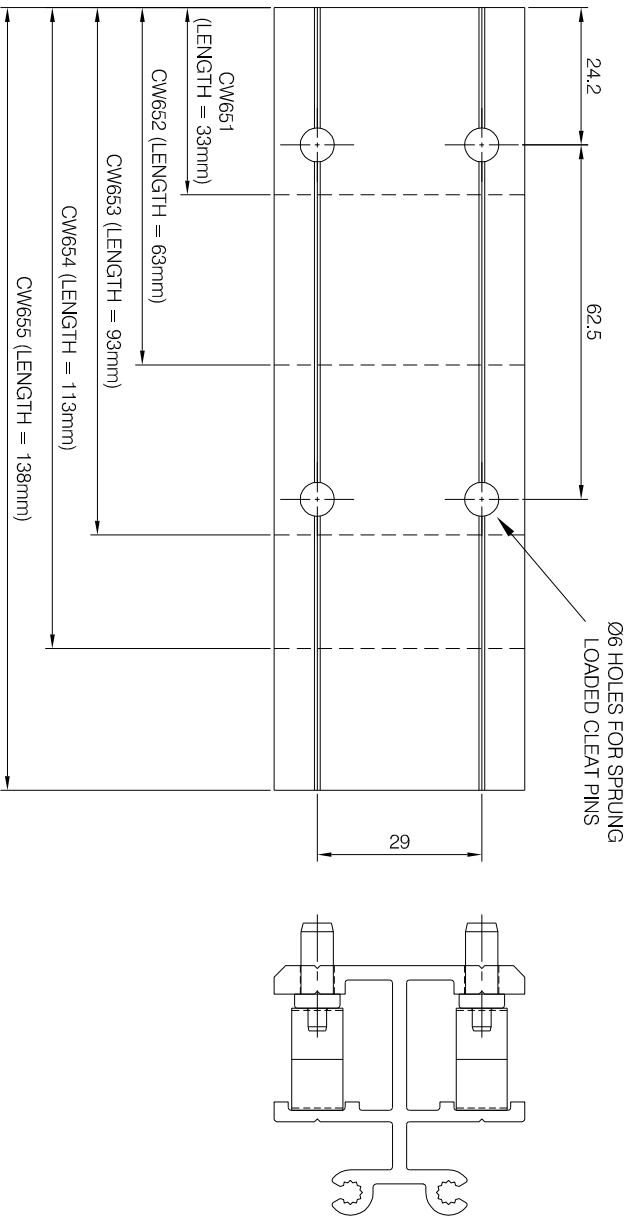
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STEP-CUT TRANSOMS



STEP-CUT TRANSOMS	SPRING LOADED CLEAT REF. No.
CS621	CW621XKIT
CS622	CW622XKIT
CS623	CW623XKIT
CS624	CW624XKIT
CS625	CW625XKIT

SQUARE-CUT TRANSOMS



SQUARE-CUT TRANSOMS	SPRING LOADED CLEAT REF. No.
CS651	CW651XKIT
CS652	CW652XKIT
CS653	CW653XKIT
CS654	CW654XKIT
CS655	CW655XKIT



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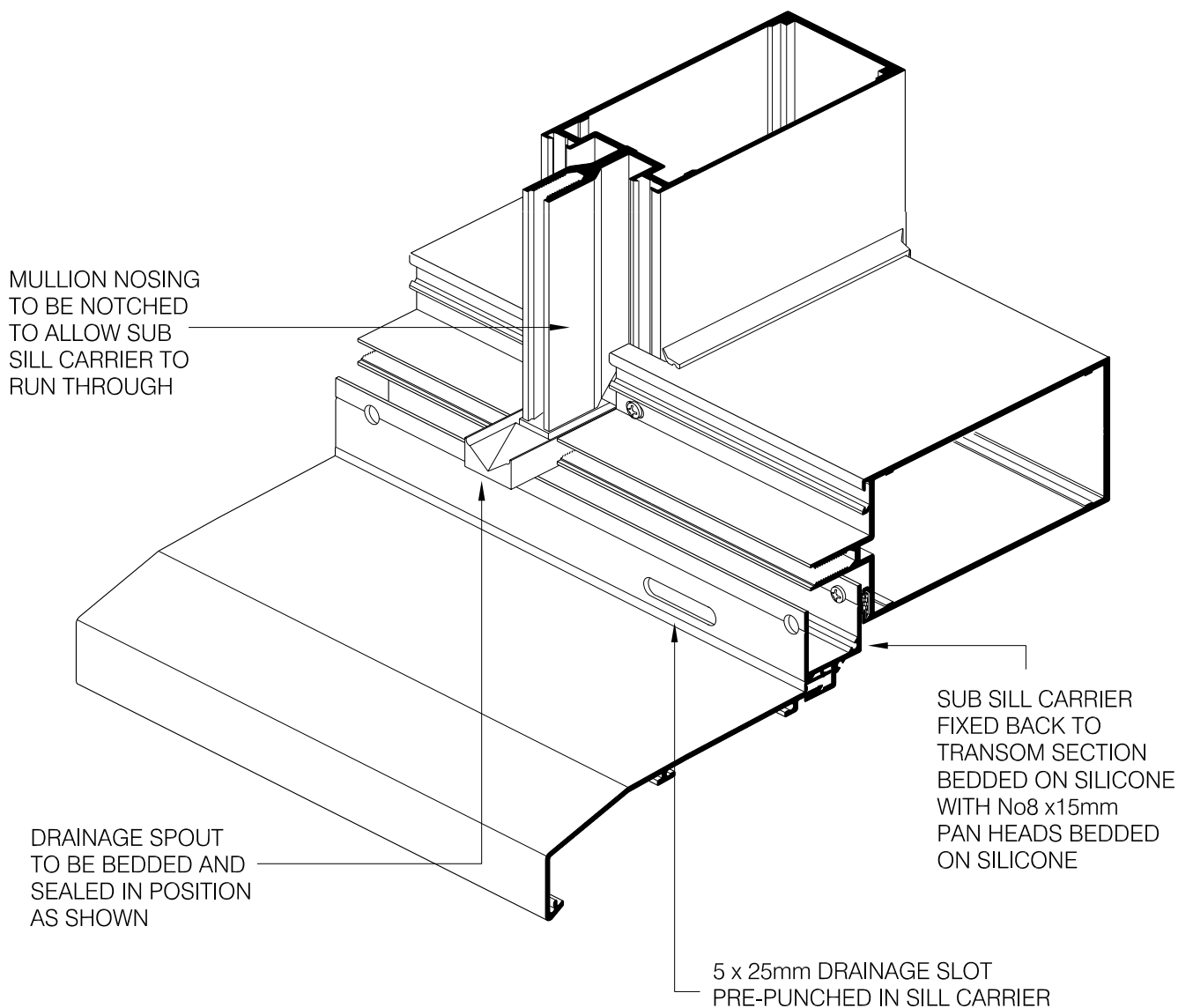


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CURTAIN WALLING
COMAR 6 STICK BUILD SYSTEM
TRANSOM'S CLEAT INFORMATION
SPRING LOADED CLEAT ASSEMBLY REFERENCES

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comar 6 Stick			
DRAWN	MD (CAD)	SCALE	N T S
DATE	26/10/07	DWG. No.	C6-SB-3.13 R2



STEP CUT TRANSOM



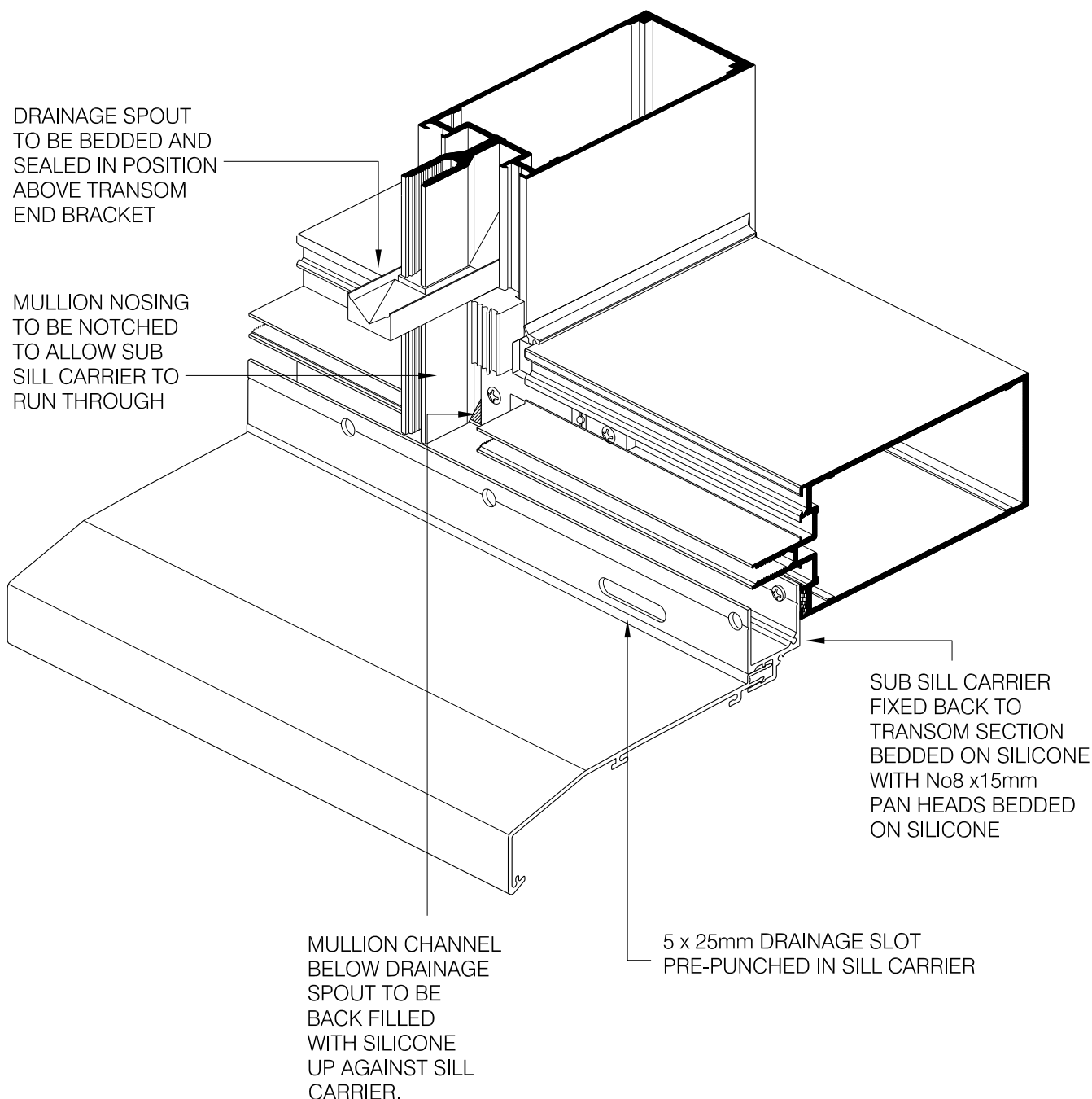
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SCALE	N T S	@ A4
DATE	09/08/06	
DRAWN	AF	
DRG. No.	C6-SB-3.14 R1	



SQUARE CUT TRANSOM



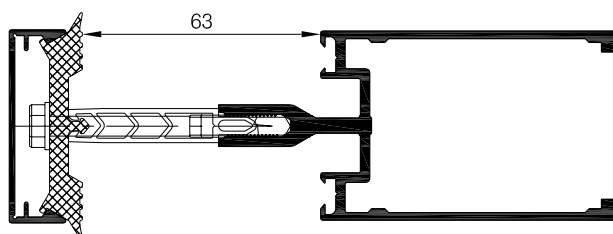
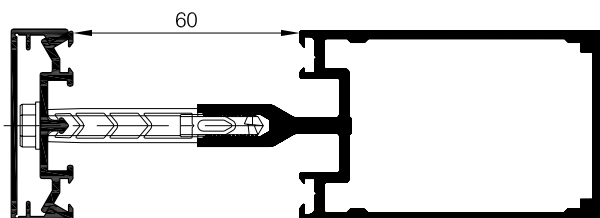
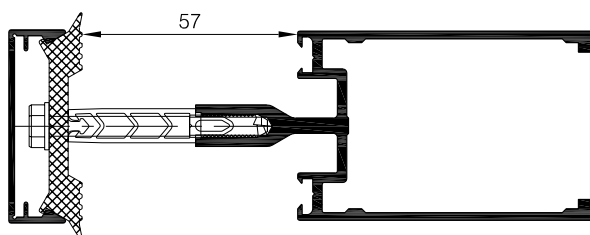
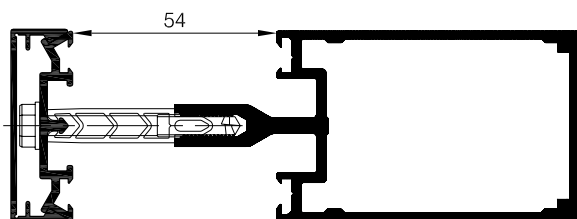
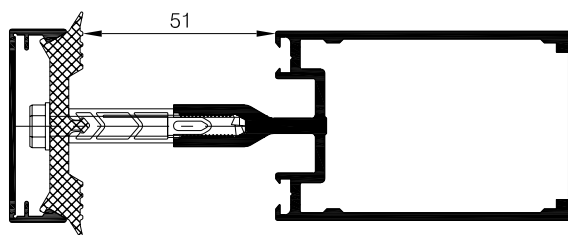
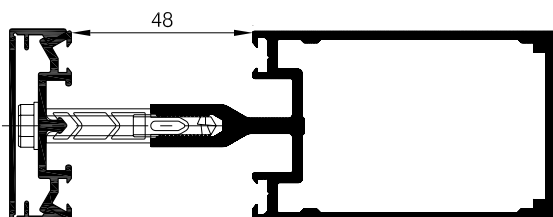
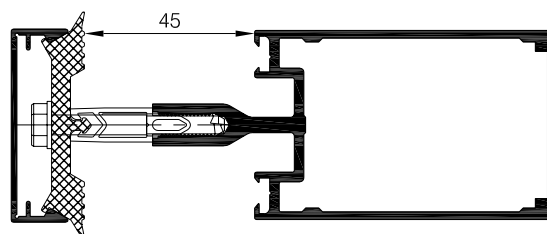
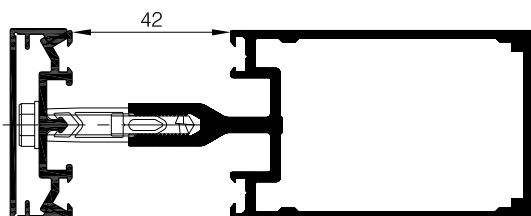
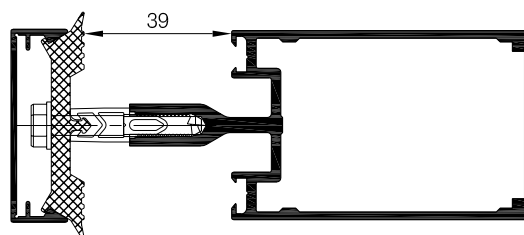
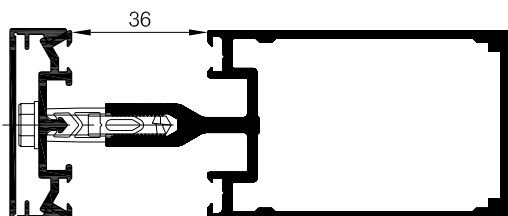
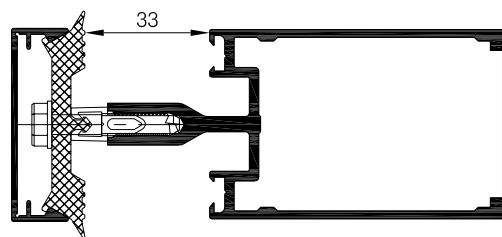
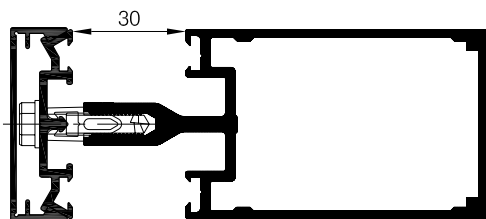
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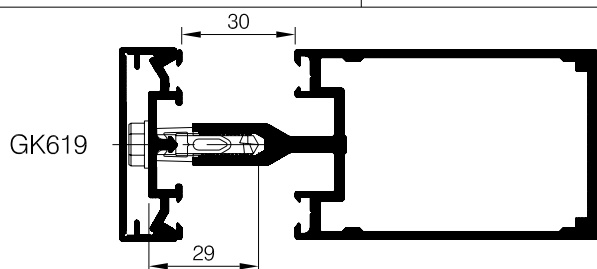
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DRG. No.	C6-SB-3.15 R1	



For glazing options with ALUMINIUM pressure plate CS630 and CS632 see sheet Nos 4.02 and 4.03

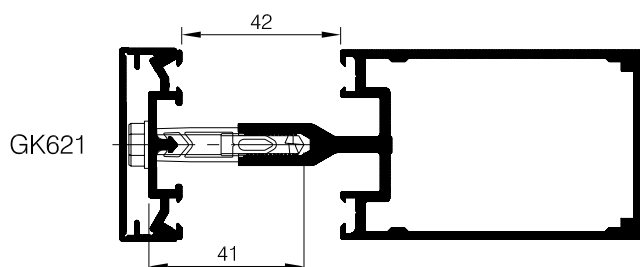
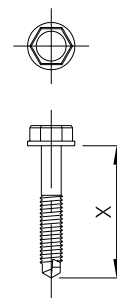
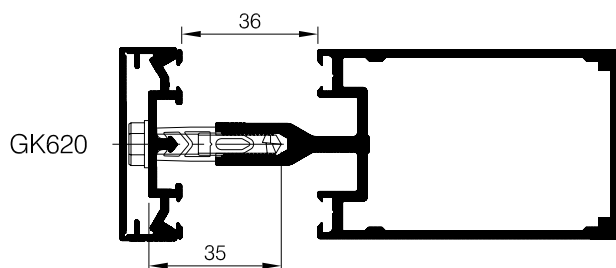
For glazing options with PVC pressure plate GK 630 and GK632 see sheet Nos 4.04 and 4.05





CS630 TRANSOM PRESSURE PLATE
CS632 MULLION PRESSURE PLATE

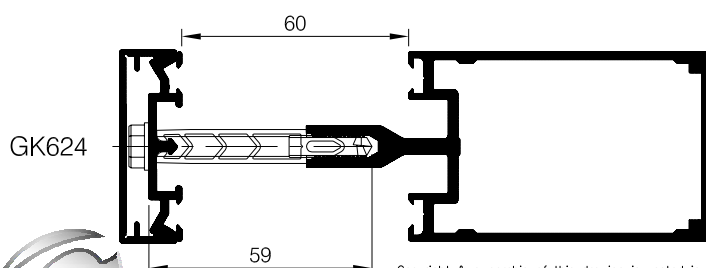
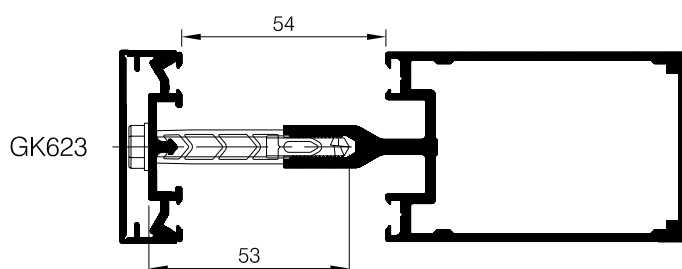
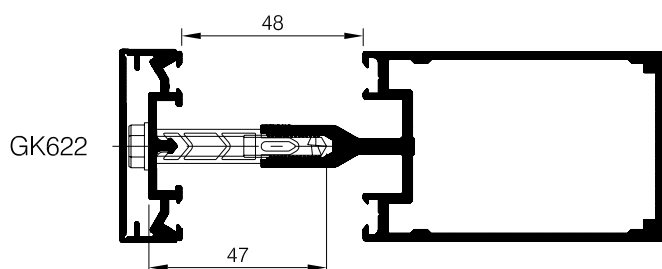
M6 x 1mm pitch ISO thread.



TORQUE WRENCH SETTING

7 N-m / 5.5 lbf-ft

- X = 29mm (FX629XSLF)
- X = 35mm (FX635XSLF)
- X = 41mm (FX641XSLF)
- X = 47mm (FX647XSLF)
- X = 53mm (FX653XSLF)
- X = 59mm (FX659XSLF)



BOLT REF.	ISOLATOR	REF.	DRAIN SPOUT	GLASS SUPPORT	ADAPTER	SIZE
FX629XSFL		GK619		CS641	No.4x12mm csk.	6mm
FX635XSFL		GK620	CW060XSFL	CS641	CS634	
FX641XSFL		GK621		CS642	No.4x16mm csk.	12mm
FX647XSFL		GK622		18mm. CS642	CS635	
FX653XSFL		GK623		12mm. CS642	No.4x19mm csk.	18mm
FX659XSFL		GK624		6mm. CS642	No.8x32mm csk.	24mm

HOW TO USE THE TABLE BELOW

- 1) Establish the largest glazing thickness to be used e. g. 28mm
- 2) Look vertically up until NONE is encountered.
- 3) Look horizontally left from NONE to find isolator reference to use (GK621).
- 4) From the selected glazing thickness (28mm) look horizontally left to find gasket thickness required (11mm with 6mm)
- 5) When another glazing thickness is to be used (8mm) look vertically up to find the glazing adapter size (24mm) which locates horizontally with isolator previously obtained (GK621)
- 6) Look horizontally left from glazing size (8mm) to locate gasket thickness required (7mm with 2 mm).

Note !
Reduce width of glass supports by amounts shown above when used in conjunction with isolators GK621, GK622 and GK623 only.

No.8x38mm csk.	30mm
No.8x45mm csk.	36mm
No.8x51mm csk.	42mm

ISOLATOR REF.	GLAZING ADAPTER SIZE								
GK619						NONE	6	12	
GK620					NONE	6	12	18	
GK621				NONE	6	12	18	24	
GK622			NONE	6	12	18	24	30	
GK623		NONE	6	12	18	24	30	36	
GK624	NONE	6	12	18	24	30	36	42	
GASKET THK.	GLAZING THICKNESS OPTIONS								
7	2	50	44	38	32	26	20	14	8
8	3	49	43	37	31	25	19	13	7
9	4	48	42	36	30	24	18	12	6
10	5	47	41	35	29	23	17	11	5
11	6	46	40	34	28	22	16	10	4
12	7	45	39	33	27	21	15	9	3

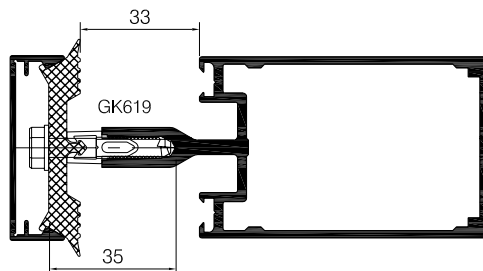
THK.	GASKET	THK.
	MULLION TRANSOM	
7mm	with	2mm
8mm	with	3mm
9mm	with	4mm
10mm	with	5mm
11mm	with	6mm
12mm	with	7mm

The above chart only refers to internal glazing gaskets and adapters, all external gaskets are GK23.

Note:-when using cover cap CS669 to horizontals and verticals GK24 (4mm outer gasket) can be used to verticals alone to give 1mm step out from horizontals.



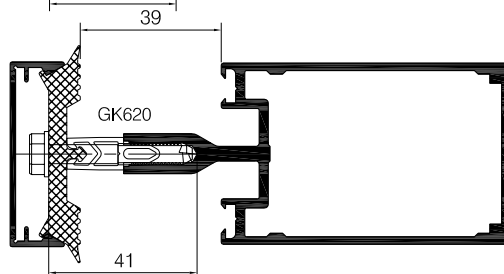
M6 x 35mm Self Drill Hex Head
Stainless Steel Screw.
Code Reference : FX635XSLF



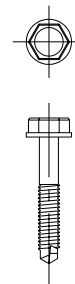
**GK630 TRANSOM
PRESSURE PLATE**

**GK632 MULLION
PRESSURE PLATE**

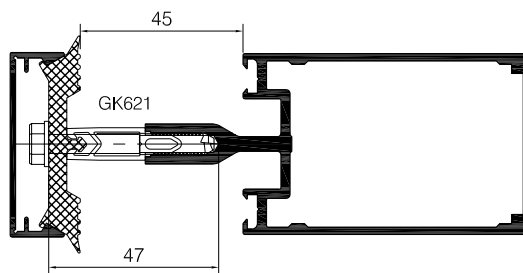
M6 x 41mm Self Drill Hex Head
Stainless Steel Screw.
Code Reference : FX641XSLF



M6 x 1mm pitch ISO thread.

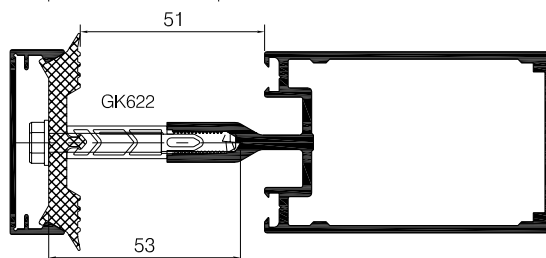


M6 x 47mm Self Drill Hex Head
Stainless Steel Screw.
Code Reference : FX647XSLF

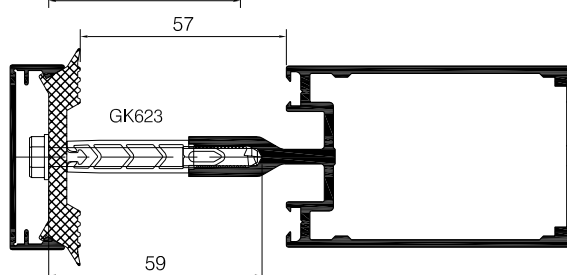


TORQUE WRENCH SETTING
7 N-m / 5.5 lbf-ft

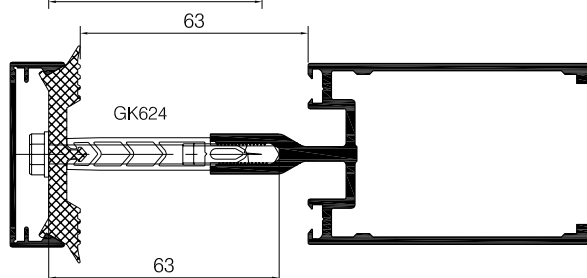
M6 x 53mm Self Drill Hex Head
Stainless Steel Screw.
Code Reference : FX653XSLF



M6 x 59mm Self Drill Hex Head
Stainless Steel Screw.
Code Reference : FX659XSLF



M6 x 59mm Self Drill Hex Head
Stainless Steel Screw.
Code Reference : FX659XSLF



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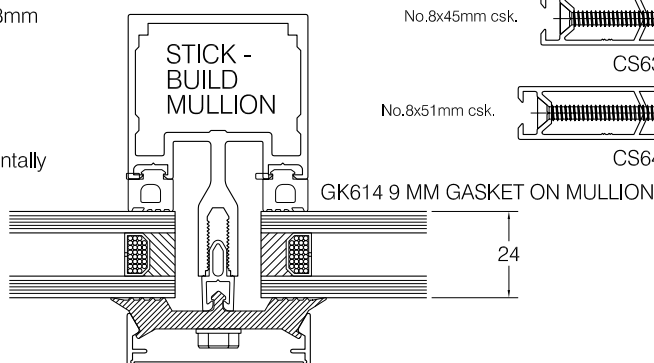


BOLT REF.	ISOLATOR	REF.	DRAIN SPOUT	GLASS SUPPORT	ADAPTER	SIZE
FX635XSLF		GK619		CS641	No.4x12mm csk.	6mm
FX641XSLF		GK620	CW060XSLF	CS641	CS634	
FX647XSLF		GK621	Cut down for GK621, 622 and 623 as shown.	CS642	No.4x16mm csk.	12mm
FX653XSLF		GK622		18mm. CS642	CS635	
FX659XSLF		GK623		12mm. CS642	No.4x19mm csk.	18mm
FX659XSLF		GK624		6mm. CS642	CS636	
			CW061XSLF		No.8x32mm csk.	24mm
					CS637	
					No.8x38mm csk.	30mm
					CS638	
					No.8x45mm csk.	36mm
					CS639	
					No.8x51mm csk.	42mm
					CS640	

HOW TO USE THE TABLE BELOW

- 1) Establish the largest glazing thickness to be used e.g.28mm
- 2) Look vertically up until **NONE** is encountered.
- 3) Look horizontally left from **NONE** to find isolator reference to use (GK620).
- 4) From the selected glazing thickness (28mm) look horizontally left to find gasket thickness required (11mm with 6mm)
- 5) When another glazing thickness is to be used (eg.8mm other side) look vertically up to find the glazing adapter size (24mm) which locates horizontally with isolator previously obtained (GK620)
- 6) Look horizontally left from glazing size (8mm)to locate gasket thickness required (7mm with 2mm).

EXAMPLE SHOWS 24 MM GLAZING WITHOUT ADAPTER



GK630 TRANSOM PRESSURE PLATE
GK632 MULLION PRESSURE PLATE

ISOLATOR	GLAZING ADAPTER SIZE									
GK619						NONE	6	12	18	
GK620						NONE	6	12	18	24
GK621				NONE	6	12	18	24	30	
GK622			NONE	6	12	18	24	30	36	
GK623		NONE	6	12	18	24	30	36	42	
GK624	NONE	6	12	18	24	30	36	42		
GASKET THK.	GLAZING THICKNESS OPTIONS									
7	2	56	50	44	38	32	26	20	14	8
8	3	55	49	43	37	31	25	19	13	7
9	4	54	48	42	36	30	24	18	12	6
10	5	53	47	41	35	29	23	17	11	5
11	6	52	46	40	34	28	22	16	10	
12	7	51	45	39	33	27	21	15	9	

THK.	GASKET	THK.
	MULLION TRANSOM	
7mm	with	2mm
	GK612 with GK602	
8mm	with	3mm
	GK613 with GK603	
9mm	with	4mm
	GK614 with GK604	
10mm	with	5mm
	GK615 with GK605	
11mm	with	6mm
	GK616 with GK606	
12mm	with	7mm
	GK617 with GK607	



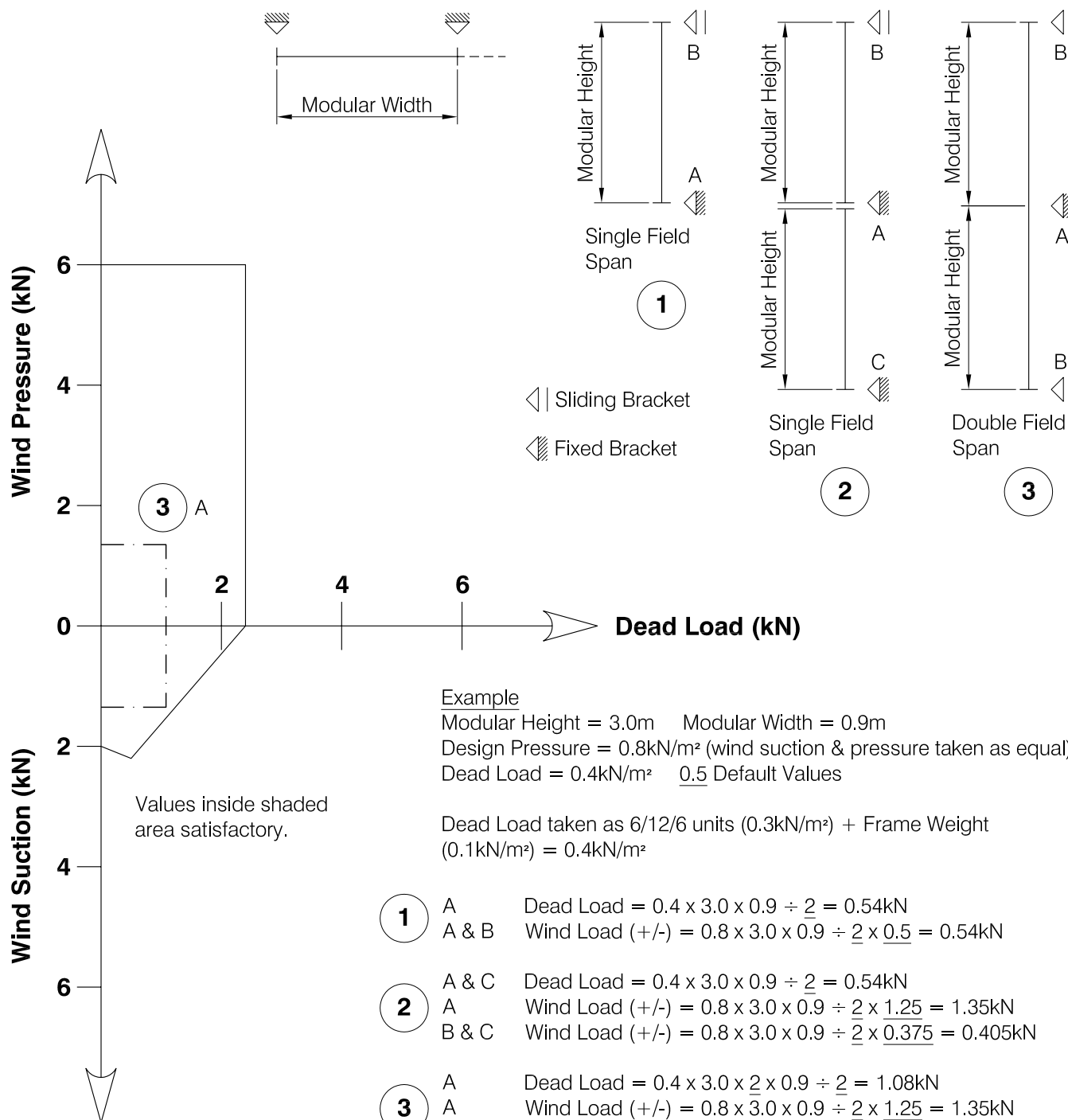
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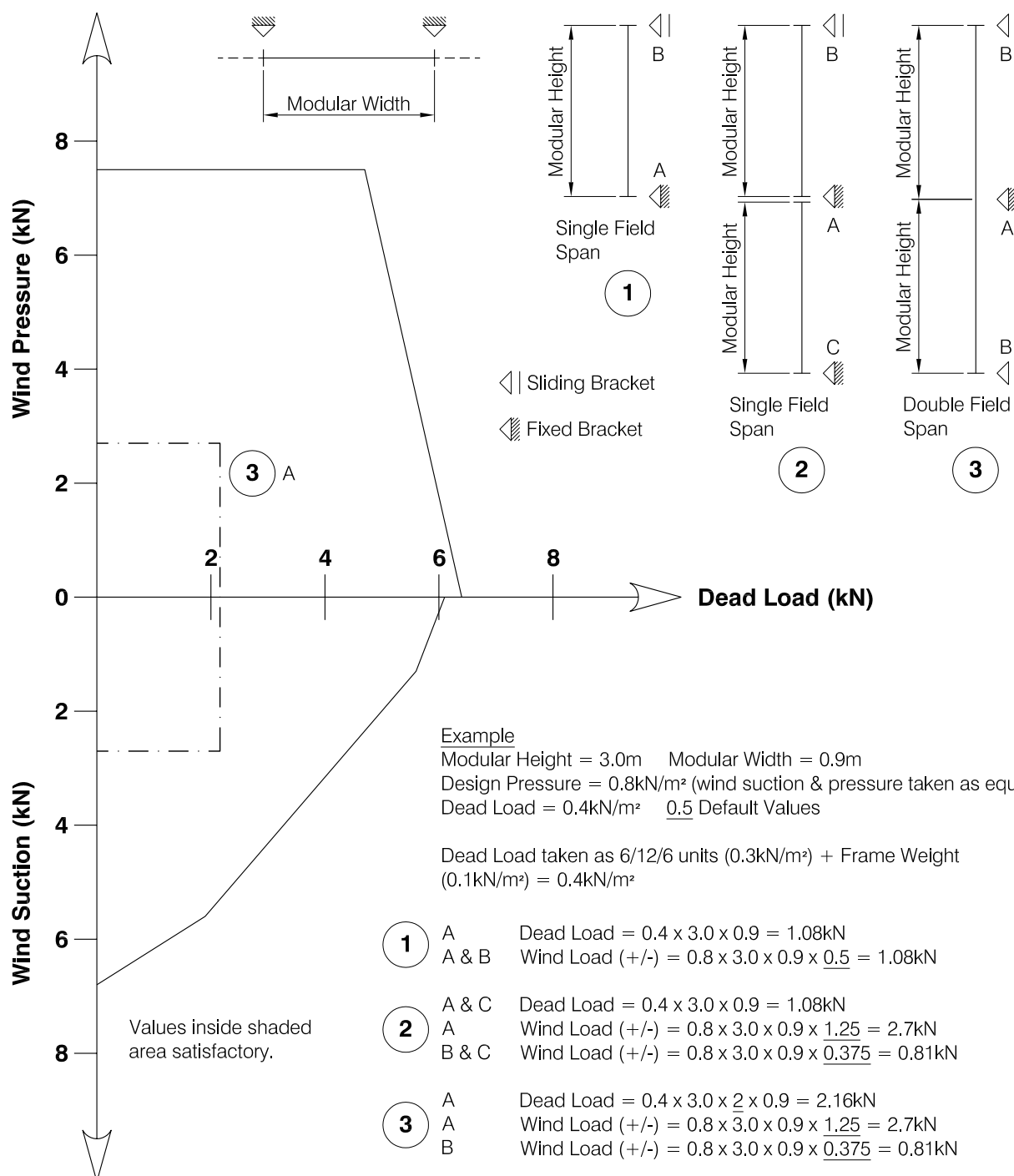
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SCALE	N T S	@ A4
DATE	12/10/06	
DRAWN	AF (NH)	
DRG. No.	C6-SB-4.05 R1	

**Note!**

If wind pressure value is different from wind suction value, calculations for both values will be required to prove bracket is satisfactory.





Note!

If wind pressure value is different from wind suction value, calculations for both values will be required to prove bracket is satisfactory.



GUIDANCE NOTES ON CALCULATION USED:-

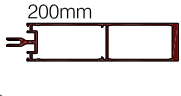
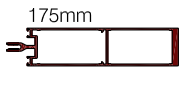
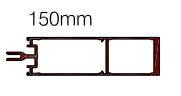
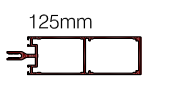
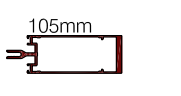
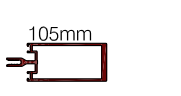
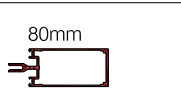
$$I_{XX} = \frac{\left(\frac{5 \times (H \times L \times P)}{384 \times 70000 \times D} \times H^3 \right)}{10^{10}}$$

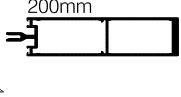
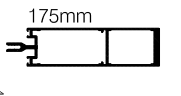
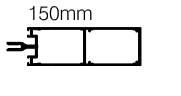
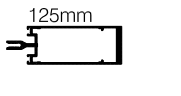
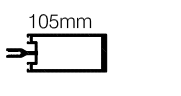
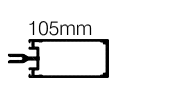
H= HEIGHT OF THE SINGLE SPAN MULLION
L= LENGTH OF THE TRANSOM BETWEEN MULLIONS
P= WIND LOAD PRESSURE IN PASCAL Pa
D= DEFLECTION BASED ON MULLION HEIGHT

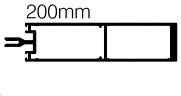
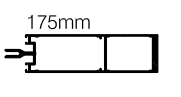
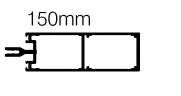
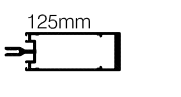
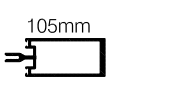
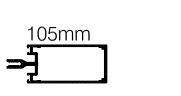
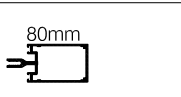
FOR ADDITIONAL MULLION GUIDANCE
AND INFORMATION PLEASE CONTACT
COMAR'S TECHNICAL DEPARTMENT.

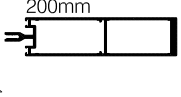
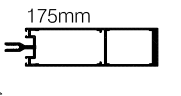
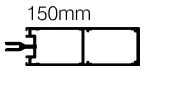
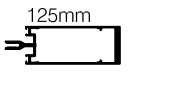
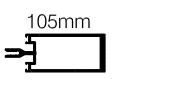
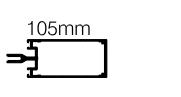
THE SAFE WIND LOADING TABLES SHOWN
HERE ARE FOR SINGLE FIELD SPAN MULLIONS
WITH THE FOLLOWING DEFLECTION LIMITS:-

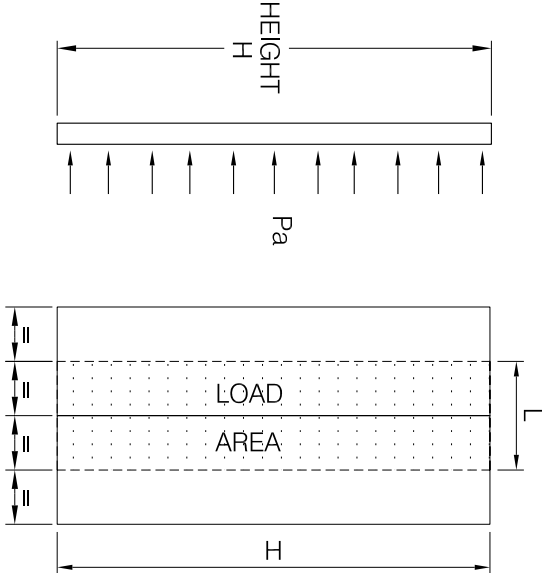
OVER 3000 mm MULLION SPAN D <= (H/300 +5)
UP TO 3000 mm MULLION SPAN D <= (H/200)

800Pa							
SINGLE SPAN MULLION HEIGHT (H)	CS607 I _{XX} = 1059.1cm ⁴	CS606 I _{XX} = 727.2 cm ⁴	CS604 I _{XX} = 407.8 cm ⁴	CS605 I _{XX} = 337.5 cm ⁴	CS603 I _{XX} = 234.0cm ⁴	CS602 I _{XX} = 181.3 cm ⁴	CS601 I _{XX} = 94.8 cm ⁴
TRANSOM LENGTH (L) SPACING BETWEEN MULLIONS	1370	940	520				
6000	5800	1530	1050	580			
5600	1710	1170	650	540			
5400	1920	1320	740	610			
5200	2170	1490	830	690	480		
5000	2460	1690	950	780	540		
4800		1930	1080	890	620	480	
4600		2210	1240	1030	710	550	
4400		2560	1430	1190	820	630	
4200			1670	1380	960	740	
4000			1960	1620	1120	870	450
3800			2320	1920	1330	1030	540
3600				2290	1590	1230	640
3400					1920	1480	770
3200					2340	1820	950
3000						2250	1180
2800							1450
2600							1810

1800Pa						
SINGLE SPAN MULLION HEIGHT (H)	CS607 I _{XX} = 1059.1cm ⁴	CS606 I _{XX} = 727.2 cm ⁴	CS604 I _{XX} = 407.8 cm ⁴	CS605 I _{XX} = 337.5 cm ⁴	CS603 I _{XX} = 234.0cm ⁴	CS602 I _{XX} = 181.3 cm ⁴
TRANSOM LENGTH (L) SPACING BETWEEN MULLIONS	610	460				
6000	5800	680	460			
5600	760	520				
5400	850	580				
5200	960	660				
5000	1090	750				
4800	1250	850	480			
4600	1430	980	550	450		
4400	1660	1140	630	520		
4200	1930	1320	740	610		
4000	2260	1550	870	720	500	
3800		1840	1030	850	590	450
3600		2190	1230	1020	700	540
3400			1480	1230	850	660
3200			1820	1500	1040	800
3000			2250	1860	1290	1000
2800				2290	1590	1230
2600					1980	1540

1200Pa							
SINGLE SPAN MULLION HEIGHT (H)	CS607 I _{XX} = 1059.1cm ⁴	CS606 I _{XX} = 727.2 cm ⁴	CS604 I _{XX} = 407.8 cm ⁴	CS605 I _{XX} = 337.5 cm ⁴	CS603 I _{XX} = 234.0cm ⁴	CS602 I _{XX} = 181.3 cm ⁴	CS601 I _{XX} = 94.8 cm ⁴
TRANSOM LENGTH (L) SPACING BETWEEN MULLIONS	910	620					
6000	5800	1020	700				
5600	1140	780					
5400	1280	880	490				
5200	1440	990	550	460			
5000	1640	1120	630	520			
4800	1870	1470	720	590			
4600	2150	1700	830	680	470		
4400	2490	1980	950	790	550		
4200		2330	1110	920	640	490	
4000			1300	1080	750	580	
3800			1540	1280	880	680	
3600			1840	1530	1060	820	
3400			2230	1840	1280	990	510
3200				2250	1560	1210	630
3000					1940	1500	780
2800					2380	1850	960
2600						2310	1200

2400Pa						
SINGLE SPAN MULLION HEIGHT (H)	CS607 I _{XX} = 1059.1cm ⁴	CS606 I _{XX} = 727.2 cm ⁴	CS604 I _{XX} = 407.8 cm ⁴	CS605 I _{XX} = 337.5 cm ⁴	CS603 I _{XX} = 234.0cm ⁴	CS602 I _{XX} = 181.3 cm ⁴
TRANSOM LENGTH (L) SPACING BETWEEN MULLIONS	450					
6000	5800	510				
5600	570					
5400	640	440				
5200	720	490				
5000	820	560				
4800	930	640	425			
4600	1070	740	425			
4400	1240	850	470			
4200	1440	990	550	460		
4000	1690	1160	650	540		
3800	2010	1380	770	640	440	
3600	2400	1640	920	760	530	
3400		1990	1110	920	640	490
3200		2430	1360	1130	780	600
3000			1690	1400	970	750
2800			2080	1720	1190	920
2600			2590	2150	1490	1150



EXAMPLE
H=3600mm
L=1000mm
P=1800Pa
D=17mm (H/300 + 5)

RESULT
I_{XX} REQUIRED = 330.8 cm⁴
∴ Mullion CS605 is satisfactory with a
I_{XX} value of 337.5 cm⁴



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CURTAIN WALLING
COMAR 6 STICK BUILD SYSTEM
GLAZING OPTIONS FRAME LIMITATIONS
SINGLE SPAN MULLION SPACING

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comar 6 Stick	SCALE	N T S	@A3
DRAWN	AF (NH)		
DATE	12/10/06	DRC. No.	C6-SB-4.08 R1

MAXIMUM SAFE LOADS FOR 'SQUARE CUT' TRANSOMS.

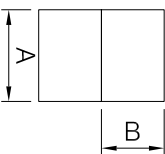

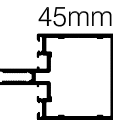
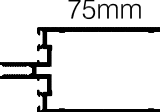
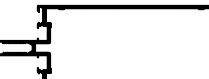
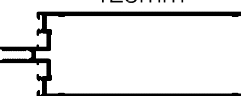

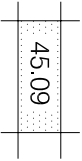
TRANSOM DEAD LOAD CHART DOUBLE GLAZED 6/12/6																
																
(B)	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	
	TRANSOM LENGTHS (A) (MULLION CENTRES)															
200																
300																
400									8.22	8.52						
500																
600								8.70								
700																
800						8.79										
900																
1000																
1100																
1200																
1300																
1400																
1500																
1600																
1700																
1800																
1900																
2000																
2100																
2200																
2300																
2400																
2500																
2600																

TABLE OF Iy VALUES (RESISTANCE TO BENDING UNDER LOAD) FOR TRANSOMS.

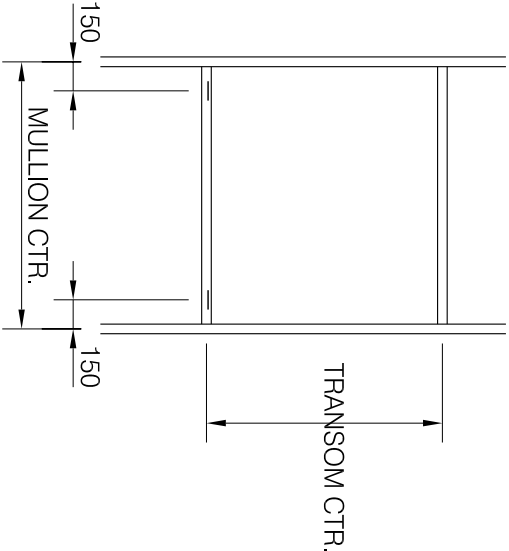
FROM DIMENSIONS 'A' AND 'B' ON CHART USE Iy VALUE TO SELECT SUITABLE TRANSOM FROM THE ABOVE RANGE.

NOTE.
1) MAXIMUM DEAD LOAD FOR 25mm AND 45mm TRANSOM (GLASS AND SELF WEIGHT) UTILIZING No 8 SELF TAPPING SCREWS AND SHEAR PINS IS NOT TO EXCEED 100kg.
2) 45mm TRANSOM OVER 100kg TO INCLUDE SPRING LOADED CLEAT.
3) TRANSOM SIZES OF 75mm OR GREATER WITH A COMBINED GLASS AND SELF WEIGHT EXCEEDING 70kg TO INCLUDE A SPRING LOADED CLEAT.
4) TRANSOM SPANNING 2000mm OR GREATER REQUIRE A SPRING LOADED CLEAT.
TRANSOM DEAD WEIGHT AND ALL COMPONENTS ATTACHED TO BE AS 5kg.



TRANSOM VAUES SHOWN HATCHED
REQUIRE A SPRING LOADED CLEAT.

ALLOWABLE DEFLECTION TAKEN AS
MULLION CENTRE/400 TO A MAXIMUM OF 3mm.
GLAZING SHELF AND BLOCK POSITIONED
150mm IN FROM MULLION CTRS.



LOADING CHART BASED ON 24mm (6/12/6) DOUBLE GLAZED UNIT.

FOR LENGTHS ABOVE SPANS SHOWN OR DIFFERENT
GLASS WEIGHTS CONTACT COMAR TECHNICAL DEPARTMENT.

FOR SPECIFIC WIND LOADINGS CONTACT COMAR TECHNICAL
DEPARTMENT FOR ADVICE



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CURTAIN WALLING
COMAR 6 STICK BUILD SYSTEM
GLAZING OPTIONS FRAME LIMITATIONS
SQUARE CUT TRANSOM SAFE LOADS CHART

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comar 6 Stick			
DRAWN	AF (NH)	SCALE	N T S
DATE	12/10/06	DRG. No.	C6-SB-4.09 R1

MAXIMUM SAFE LOADS FOR 'STEP CUT' TRANSOMS.


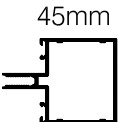
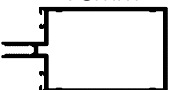
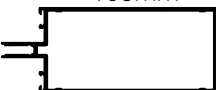


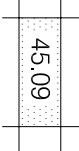
TRANSOM DEAD LOAD CHART DOUBLE GLAZED 6/12/6		25mm		45mm		75mm		105mm		125mm		150mm			
															
		$I_{YY} = 6.0 \text{ cm}^4$		$I_{YY} = 13.1 \text{ cm}^4$		$I_{YY} = 21.2 \text{ cm}^4$		$I_{YY} = 28.5 \text{ cm}^4$		$I_{YY} = 33.3 \text{ cm}^4$		$I_{YY} = 38.9 \text{ cm}^4$			
		CS620	CS62 1	CS622	CS623	CS624	CS 625								
TRANSOM LENGTHS (A) (MULLION CENTRES)															
(B)	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600
200															
300															
400															
500															
600															
700															
800															
900															
1000															
1100															
1200															
1300															
1400															
1500															
1600															
1700															
1800															
1900															
2000															
2100															
2200															
2300															
2400															
2500															
2600															

TABLE OF Ijy VALUES (RESISTANCE TO BENDING UNDER LOAD) FOR TRANSOMS.

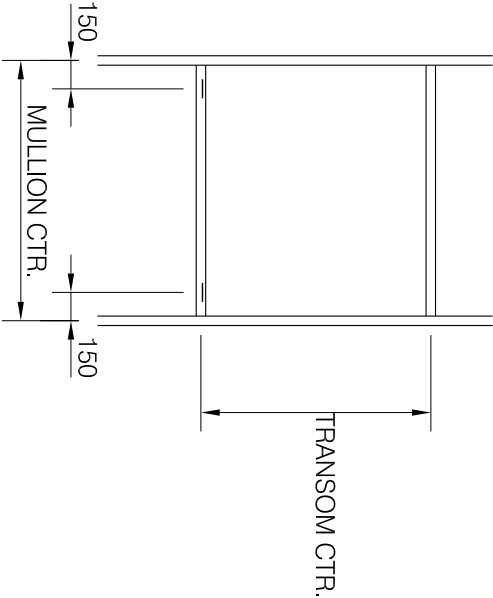
FROM DIMENSIONS 'A' AND 'B' ON CHART USE Ijy VALUE TO SELECT SUITABLE TRANSOM FROM THE ABOVE RANGE.

NOTE.
1) MAXIMUM DEAD LOAD FOR 25mm AND 45mm TRANSOM (GLASS AND SELF WEIGHT) UTILISING No 8 SELF TAPPING SCREWS AND SHEAR PINS IS NOT TO EXCEED 100kg.
2) 45mm TRANSOM OVER 100kg TO INCLUDE SPRING LOADED CLEAT.
3) TRANSOM SIZES OF 75mm OR GREATER WITH A COMBINED GLASS AND SELF WEIGHT EXCEEDING 70kg TO INCLUDE A SPRING LOADED CLEAT.
4) TRANSOM SPANNING 2000mm OR GREATER REQUIRE A SPRING LOADED CLEAT.
TRANSOM DEAD WEIGHT AND ALL COMPONENTS ATTACHED TO BE AS 5kg.



TRANSOM VALUES SHOWN HATCHED REQUIRE A SPRING LOADED CLEAT.

ALLOWABLE DEFLECTION TAKEN AS MULLION CENTRE/400 TO A MAXIMUM OF 3mm.
GLAZING SHELF AND BLOCK POSITIONED 150mm IN FROM MULLION CTRS.



LOADING CHART BASED ON 24mm (6/12/6) DOUBLE GLAZED UNIT.

FOR LENGTHS ABOVE SPANS SHOWN OR DIFFERENT GLASS WEIGHTS CONTACT COMAR TECHNICAL DEPARTMENT.

FOR SPECIFIC WIND LOADING CONTACT COMAR TECHNICAL DEPARTMENT FOR ADVICE



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CURTAIN WALLING
COMAR 6 STICK BUILD SYSTEM
GLAZING OPTIONS FRAME LIMITATIONS
STEP CUT TRANSOM SAFE LOADS CHART

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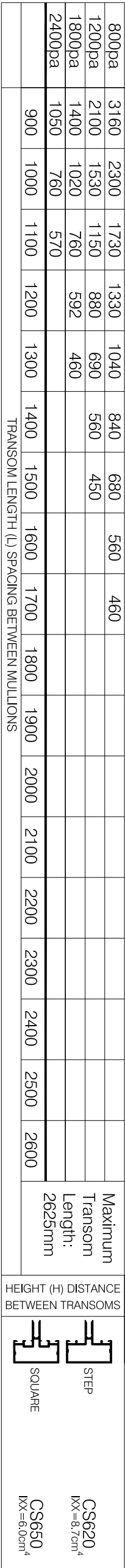
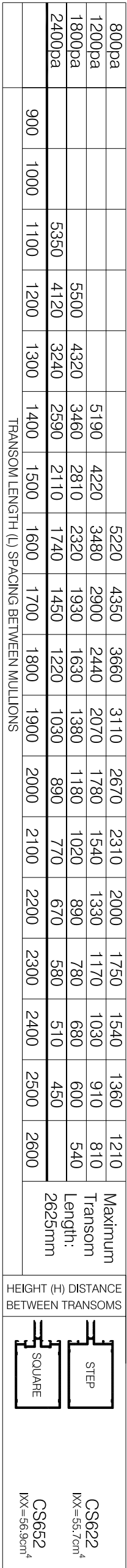
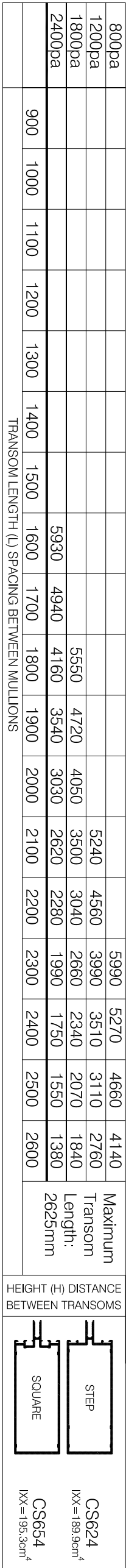


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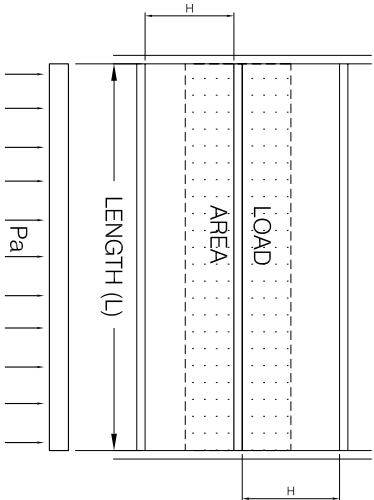
**CURTAIN WALLING
COMAR 6 STICK BUILD SYSTEM
GLAZING OPTIONS FRAME LIMITATIONS
TRANSOM SPACING**



THE SAFE WIND LOADING TABLES SHOWN
ARE FOR SINGLE FIELD SPAN TRANSOM
WITH THE FOLLOWING DEFLECTION LIMITS:-

TRANSPAN SPAN (L) TO A MAXIMUM OF 15mm

NOTE:- ALWAYS USE THIS CHART IN CONJUNCTION WITH SHEET 4.09 AND 4.10 (TRANSOM SAFE LOADS) TO ENSURE MAXIMUM DEAD LOAD LIMITATIONS ARE NOT EXCEEDED. IN EACH TABLE THE LOWER OF THE TWO IXX VALUES HAS BEEN USED TO CALCULATE THE RESULTS.



GUIDANCE NOTES ON CALCULATION USED:-

Note: FOR SIMPLICITY 'H' HAS BEEN TAKEN EQUALLY ABOUT THE TRANSOM BEING CHECKED.

$$I_x = \frac{\left(\frac{5 \times (H \times L \times P) \times L^3}{384 \times 70000 \times D} \right)}{10^{10}}$$

H= HEIGHT (THE DISTANCE BETWEEN TRANSOMS)
L= LENGTH OF THE TRANSOM BETWEEN MULLIONS
P= WIND LOAD PRESSURE IN PASCAL Pa
D= DEFLECTION BASED ON TRANSOM LENGTH

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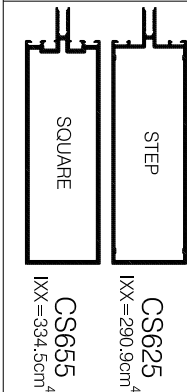
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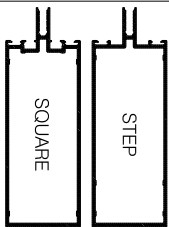
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HEIGHT (H) DISTANCE BETWEEN TRANSOMS

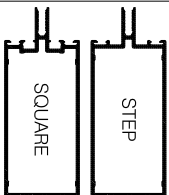
	
CS655 IXX=334,5cm ⁴	CS625 IXX=290,9cm ⁴



EIGHT (H) DISTANCE
BETWEEN TRANSOMS

CS654
IXX = 195,3cm⁴

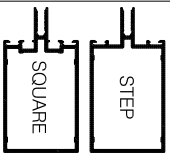
CS624
IXX = 189,9cm⁴





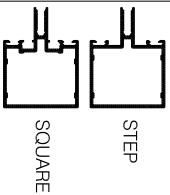
HEIGHT (H) DISTANCE
BETWEEN TRANSOMS



CS653
IXX=130.4cm⁴

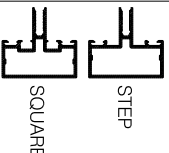
CS623
IXX=126.7cm⁴



HEIGHT (H) DISTANCE BETWEEN TRANSOMS	
 <p>CS652 $IX=56,9\text{cm}^4$</p>	 <p>CS622 $IX=55,7\text{cm}^4$</p>



EIGHT (H) DISTANCE BETWEEN TRANSOMS	
 <p>SQUARE</p>	 <p>STEP</p>
<p>CS651 $1X = 1.7/cm^4$</p>	<p>CS621 $1X = 1.7/cm^4$</p>



HEIGHT (H) DISTANCE
BETWEEN TRANSOMS

SQUARE

STEP

CS650
4
IX=6.0cm

CS620
4
IX=8.7cm

EXAMPLE

H = 2500mm

 $L = 1500\text{mm}$
$$P = 1800 \text{ Pa}$$
$$D = 14.3\text{mm} (L/175)$$

RESULT

Ixx REQUIRED = 49.4cm⁴

∴ Transom CS622 (step cut) or CS652 (square cut) are satisfactory with Ixx values of 55.7cm⁴ and 56.9cm⁴ respectively.



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