

COMAR 5Pi - TOP SWING WINDOW (CONCEALED HINGE)

Thermally broken window system with external flush face vent incorporating external weather gasket and internal air seal gasket.

MATERIALS

Extruded aluminium profiles are of aluminium alloy 6063 T5 or T6 to BS EN 12020 & BS EN 755, tempered to BS EN 515. Gaskets are extruded from E.P.D.M to BS 4255-1 and P.V.C. to BS7412.

FINISHES

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

CONSTRUCTION

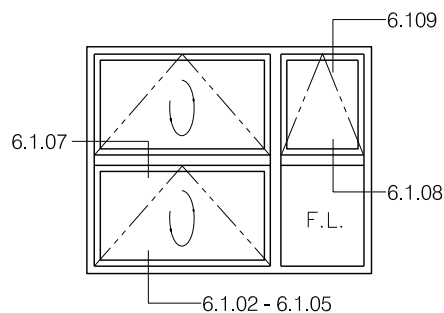
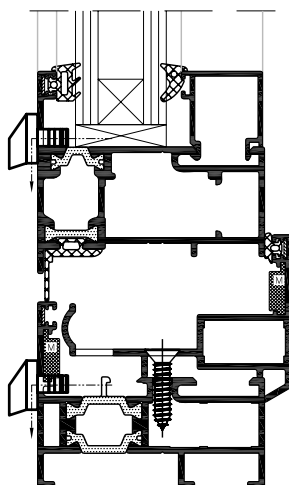
Frames are constructed with mitre joints with an inserted cleat which is either crimped or tightened with an eccentric cam. Multi light transoms and mullions are secured with No.8 screws into integral ports, or with cleats, with the addition of dowel pins.

GLAZING

Glazing beads and gaskets allow for an exceptional range of glazing thickness' from 22mm to 45mm thick. Glazing beads are available as square or sloped profiles for the commercial or domestic market.

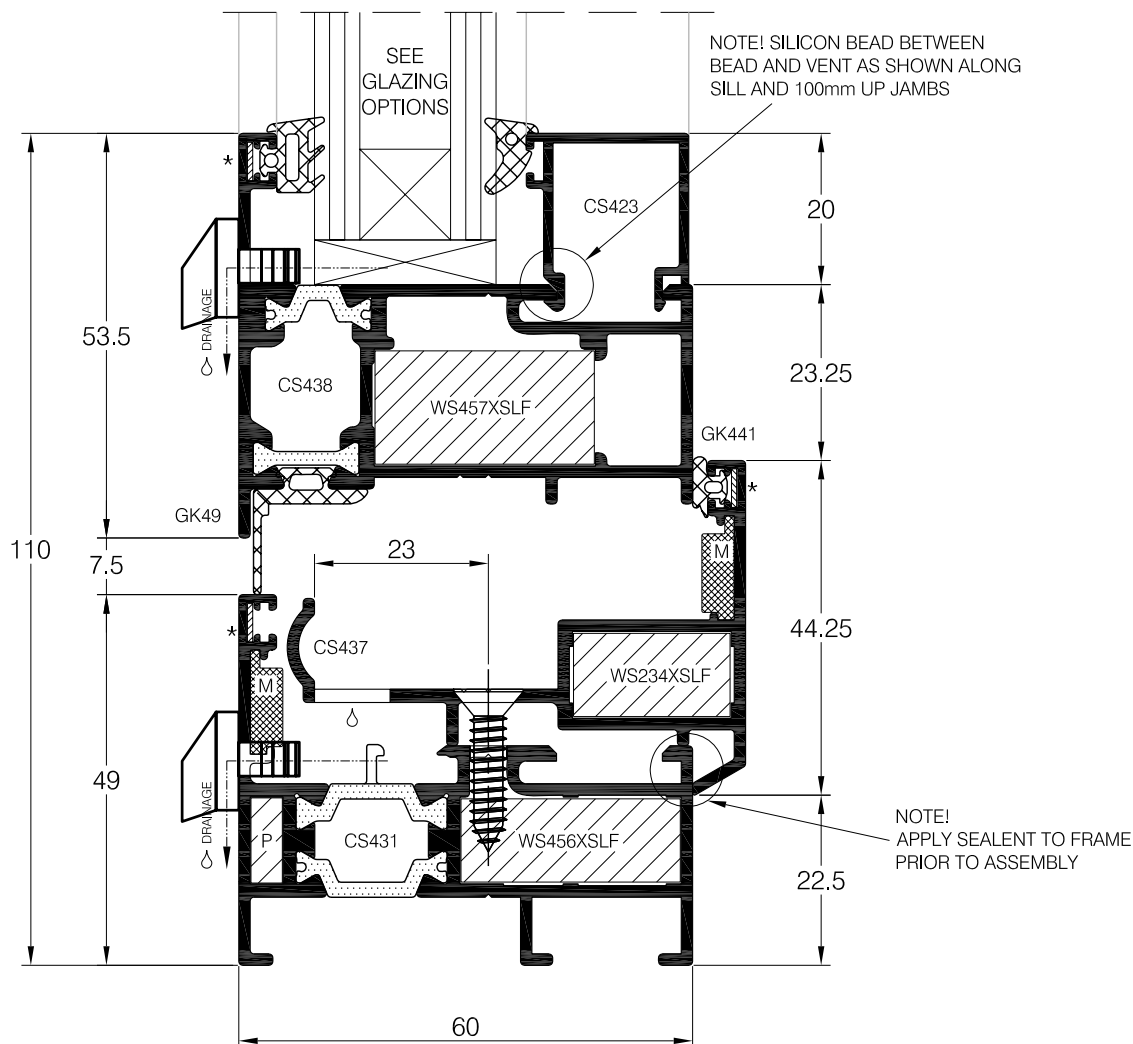
SPECIFICATION

The Comar window system has been designed in accordance with BS4873 and other recognised industry standards adopted by CWCT and trade associations i.e. The Council For Aluminium in Building. Where applicable the window system has been tested to BS6375 for weathering: 600Pa Air Permeability, 600Pa Water tightness 2400Pa resistance to wind load.



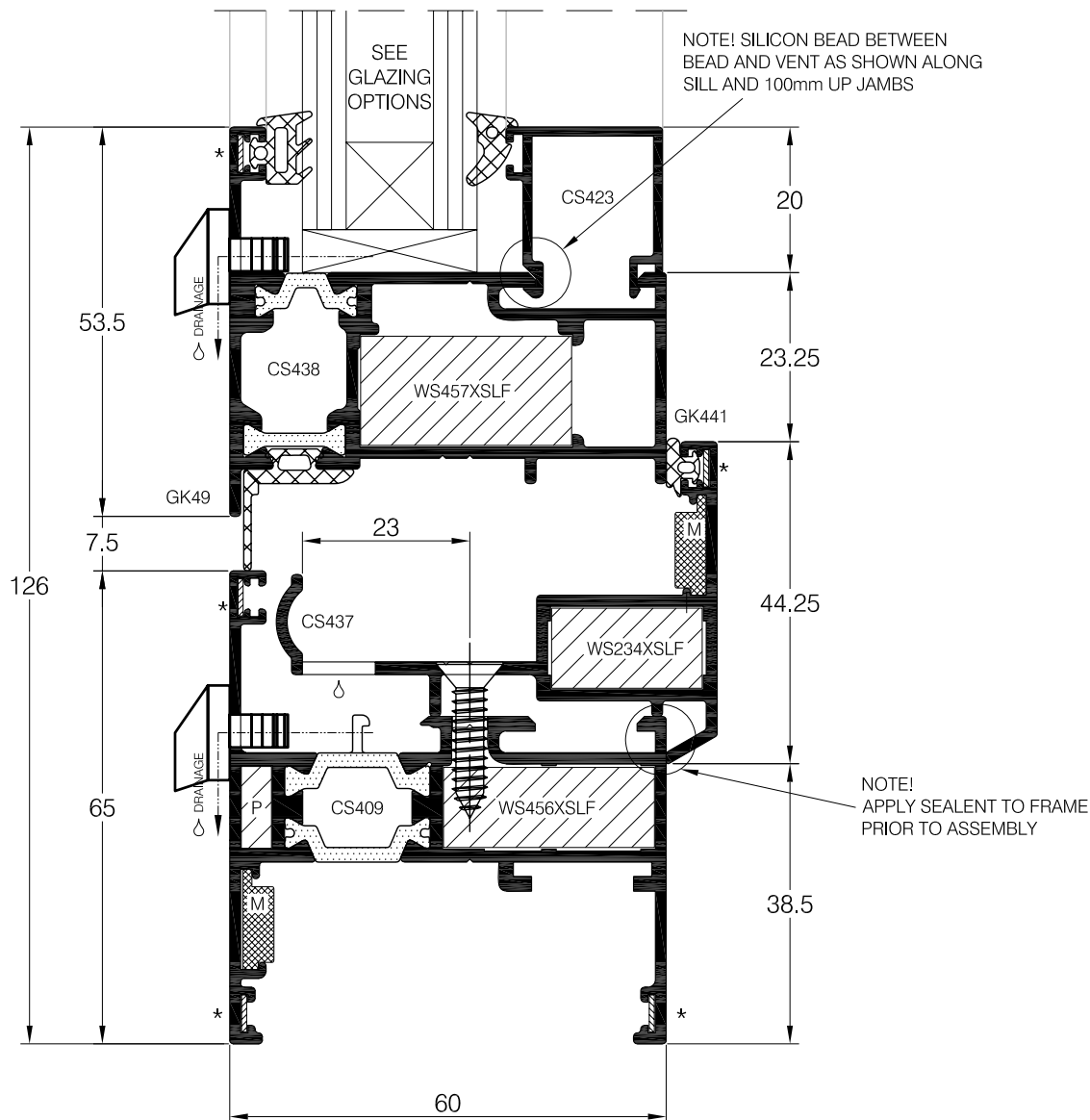
SHEET No.'s	SHEET SUB TITLE
6.1.02 - 6.1.05	SILL DETAILS
6.1.06 - 6.1.08	MULLION/TRANSOM DETAILS
6.1.09	HEAD DETAILS
6.1.10 - 6.1.20	PREPARATION & ASSEMBLY





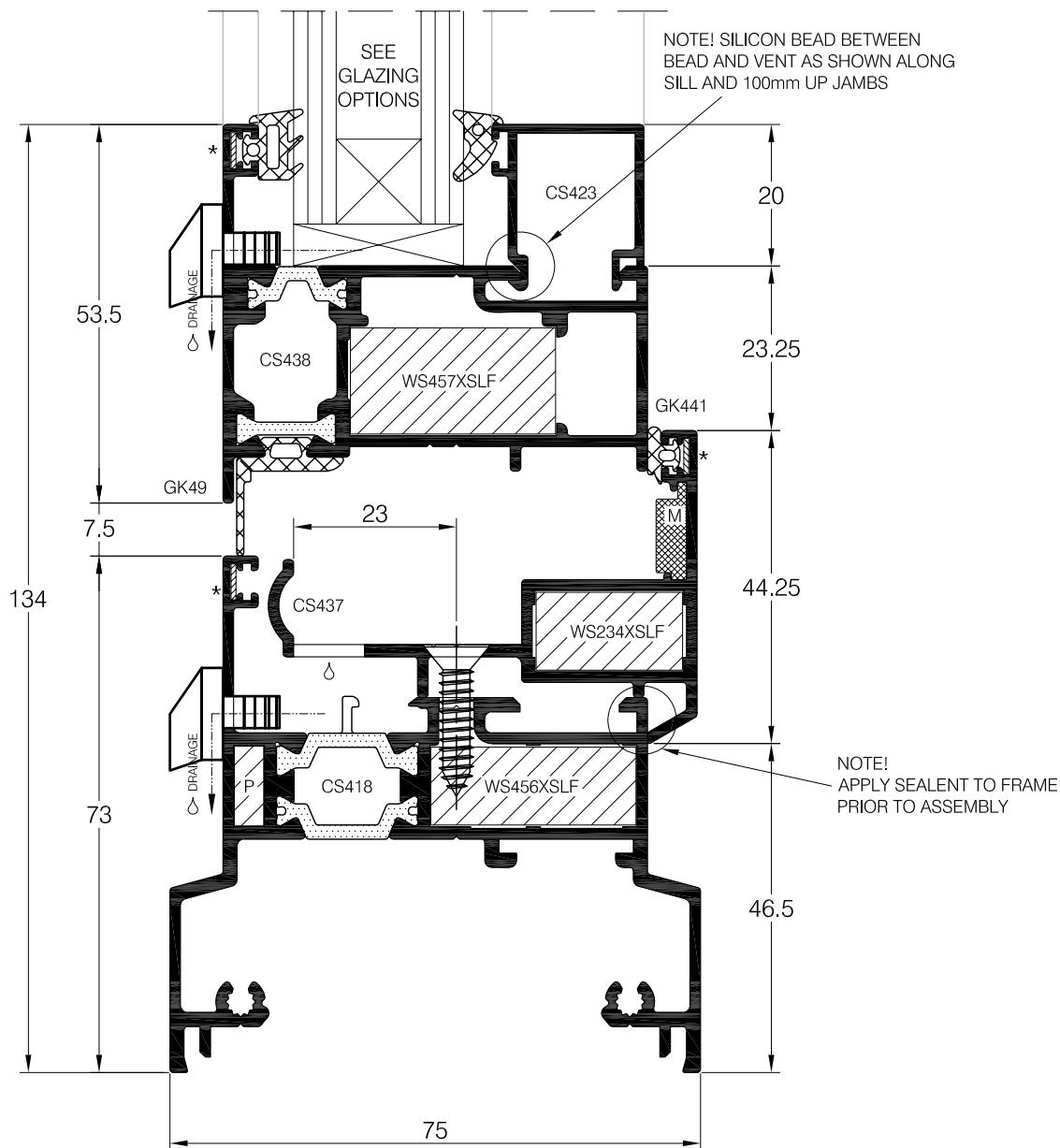
P DENOTES WS415XSLF PLASTIC CHEVRON
 M DENOTES WS416XSLF ALIGNMENT SQUARE
 ∆ FOR DRAINAGE DETAIL SEE PAGE 6.1.10/20
 * DENOTES WS515 CHEVRON





P DENOTES WS415XSFL PLASTIC CHEVRON
M DENOTES WS416XSFL ALIGNMENT SQUARE
Ø FOR DRAINAGE DETAIL SEE PAGE 6.1.10/20
* DENOTES WS515 CHEVRON

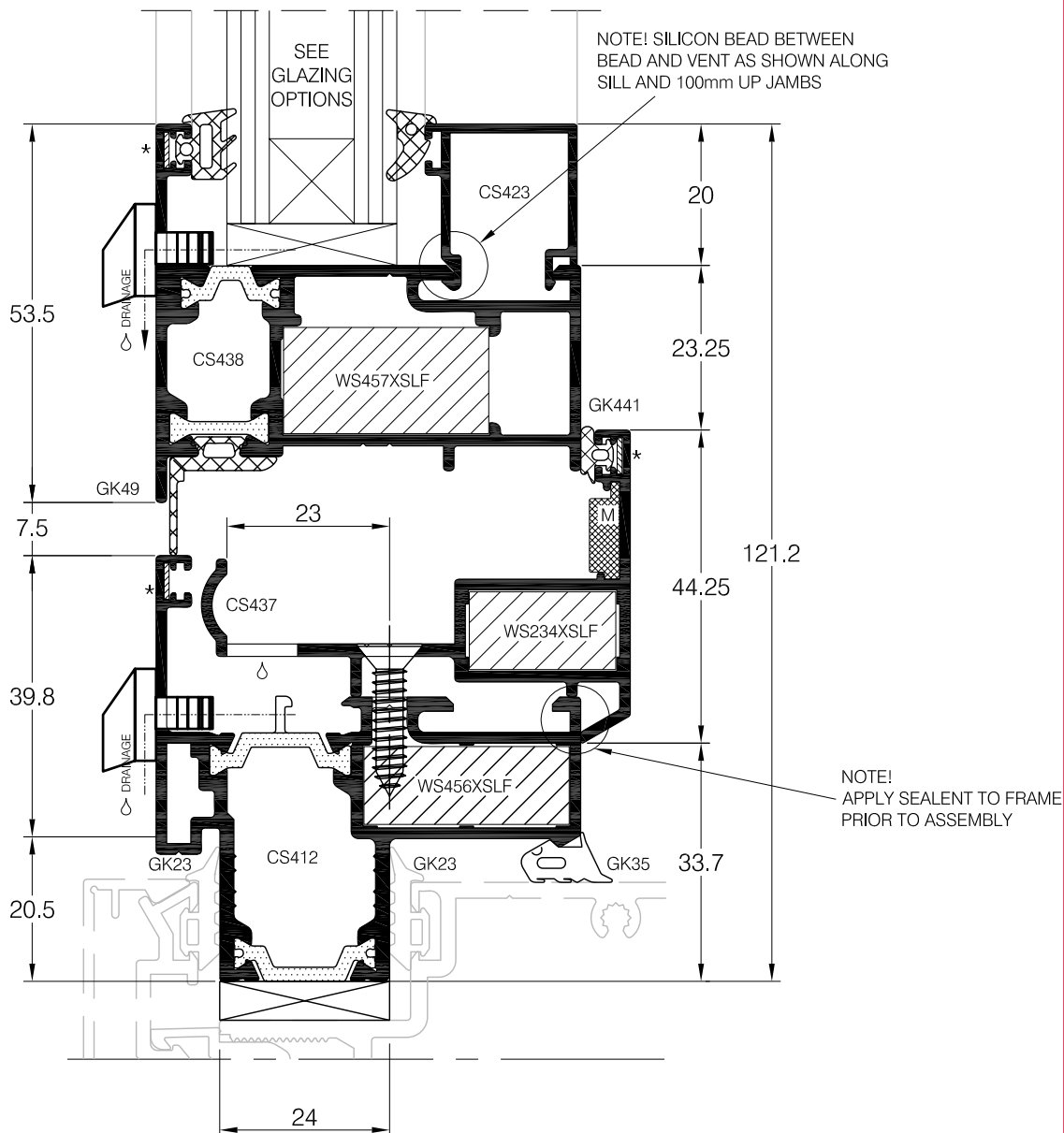




P DENOTES WS415XSFL PLASTIC CHEVRON
M DENOTES WS416XSFL ALIGNMENT SQUARE
 δ FOR DRAINAGE DETAIL SEE PAGE 6.1.10/20
* DENOTES WS515 CHEVRON



CURTAIN WALL INSERT



P DENOTES WS415XSFL PLASTIC CHEVRON

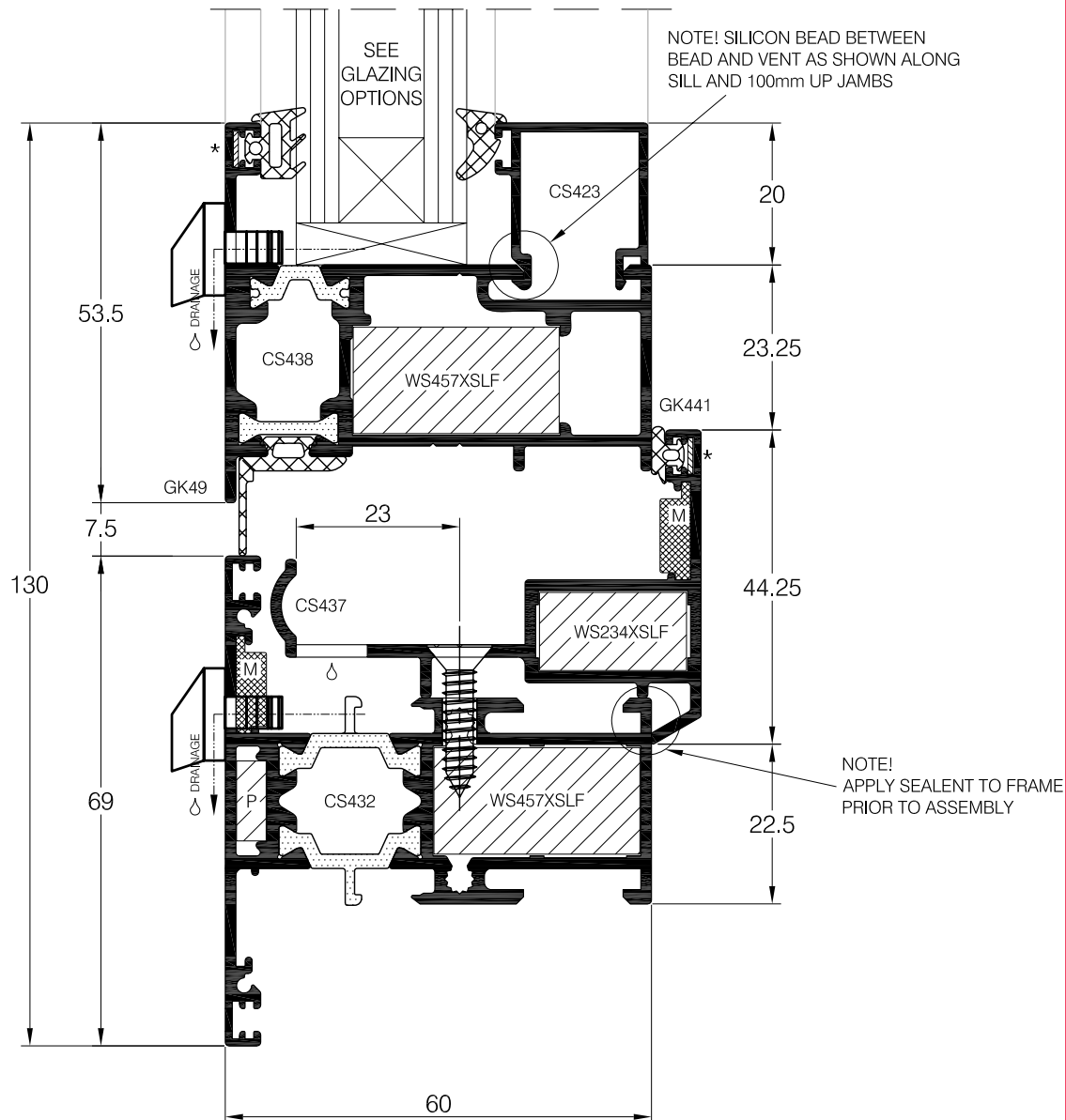
M DENOTES WS416XSFL ALIGNMENT SQUARE

Δ FOR DRAINAGE DETAIL SEE PAGE 6.1.10/20

* DENOTES WS515 CHEVRON

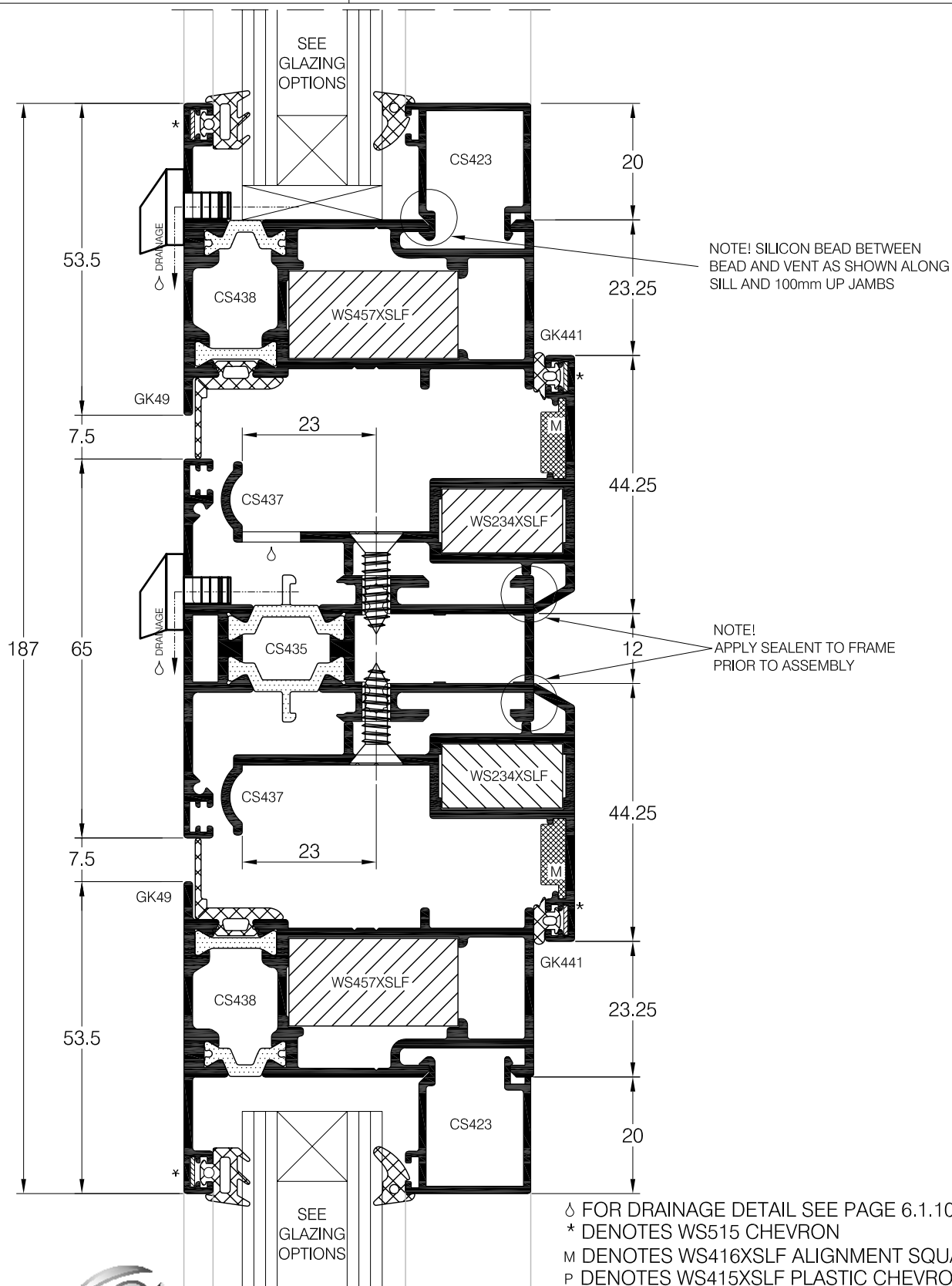
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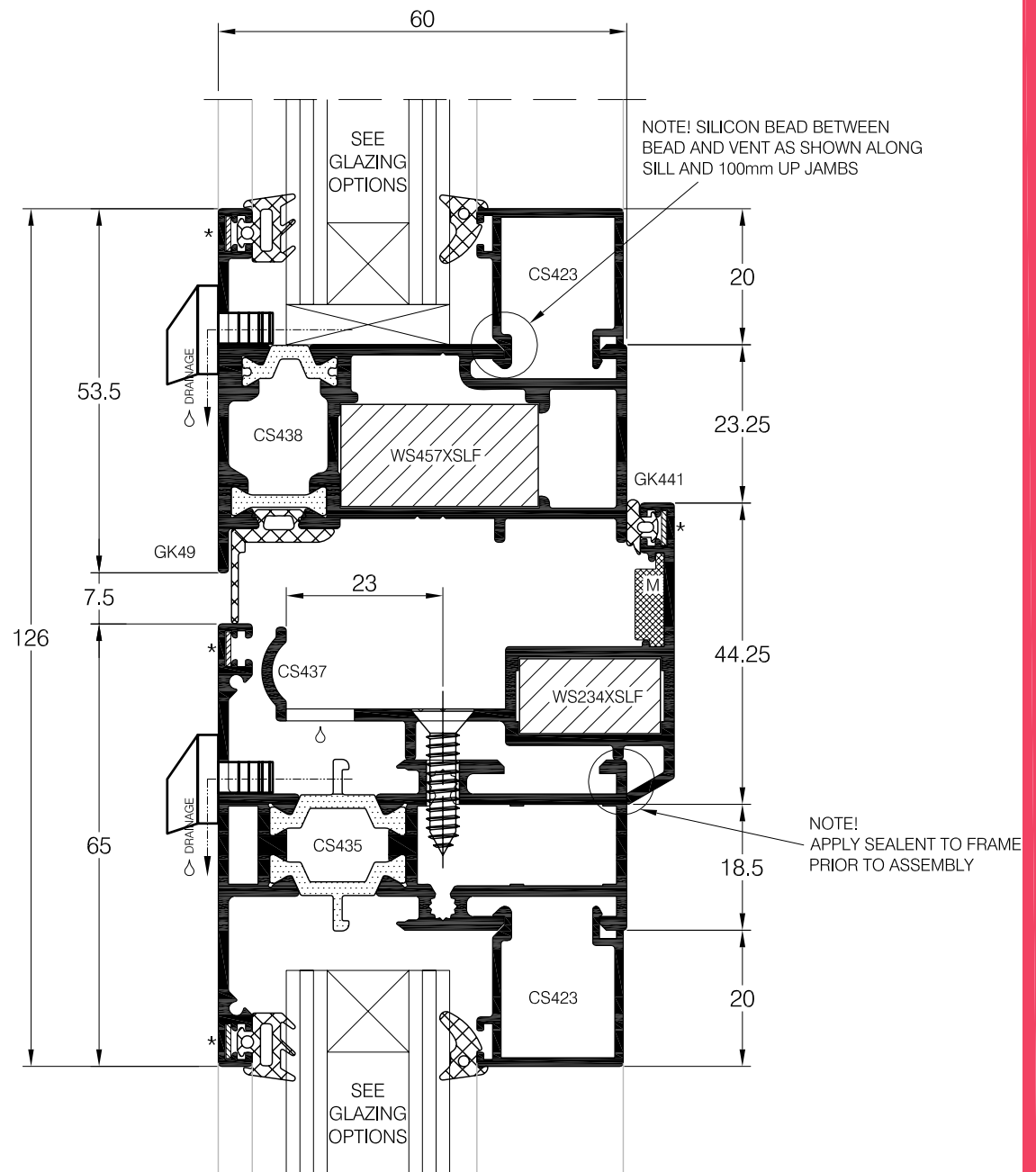
P DENOTES WS415XSFL PLASTIC CHEVRON
 M DENOTES WS416XSFL ALIGNMENT SQUARE
 ∅ FOR DRAINAGE DETAIL SEE PAGE 6.1.10/20
 * DENOTES WS515 CHEVRON





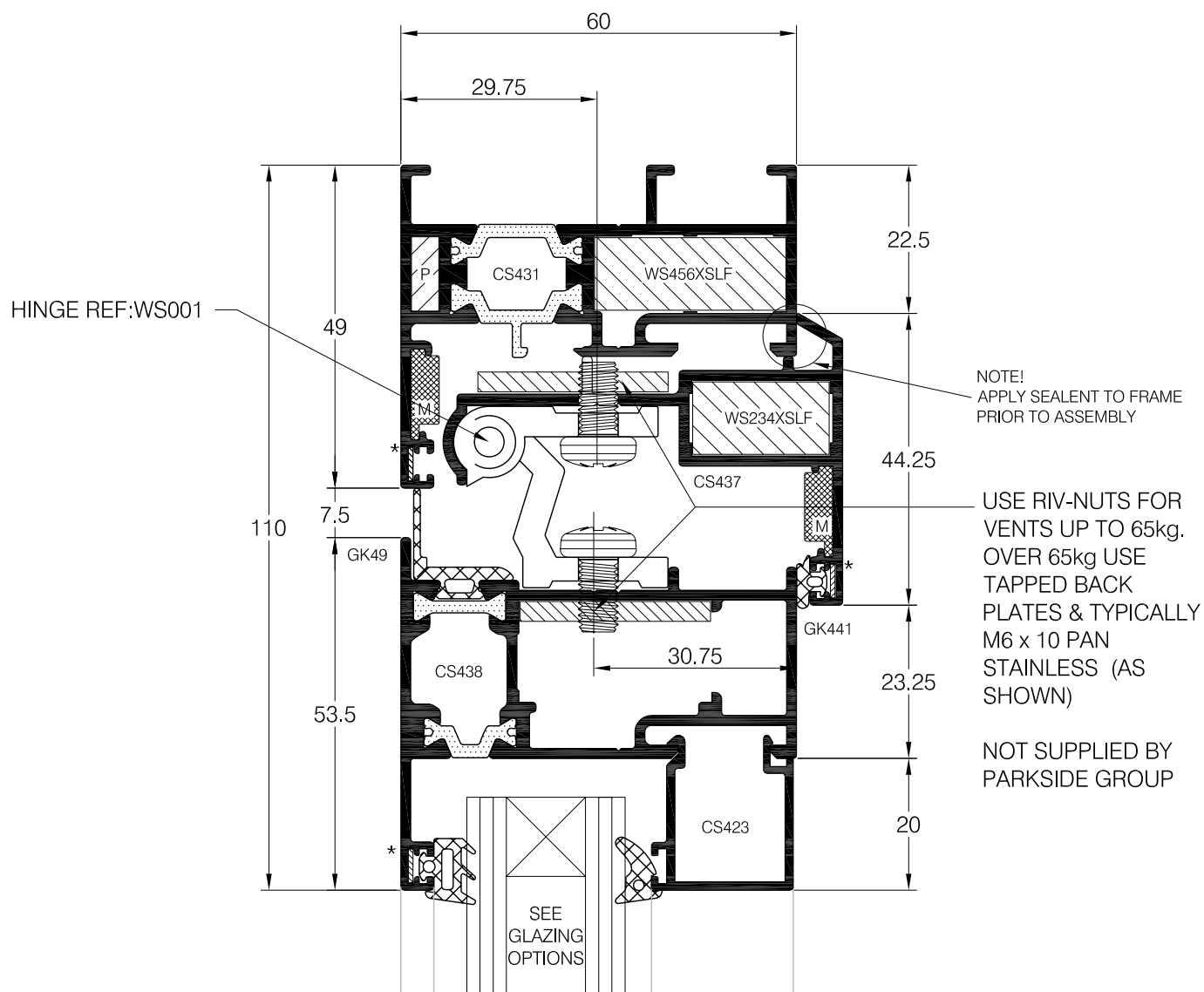
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P DENOTES WS415XSFLF PLASTIC CHEVRON
 M DENOTES WS416XSFLF ALIGNMENT SQUARE
 d FOR DRAINAGE DETAIL SEE PAGE 6.1.10/20
 * DENOTES WS515 CHEVRON

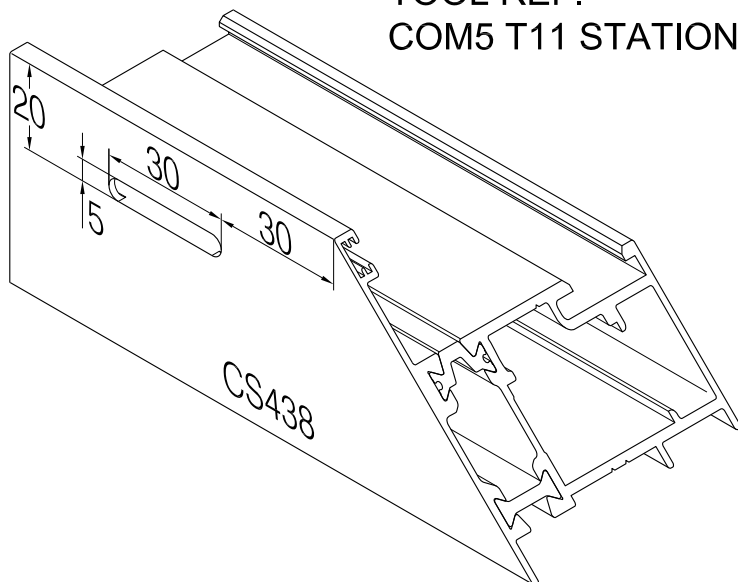




P DENOTES WS415XSFL PLASTIC CHEVRON
M DENOTES WS416XSFL ALIGNMENT SQUARE
* DENOTES WS515 CHEVRON



**CS438 SASH
DRAINAGE SLOT
TOOL REF:
COM5 T11 STATION 3**



Profiles - Outer Frames
Mitre cut to the work size

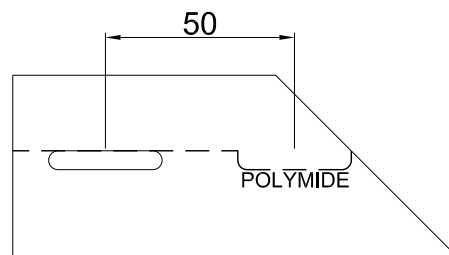
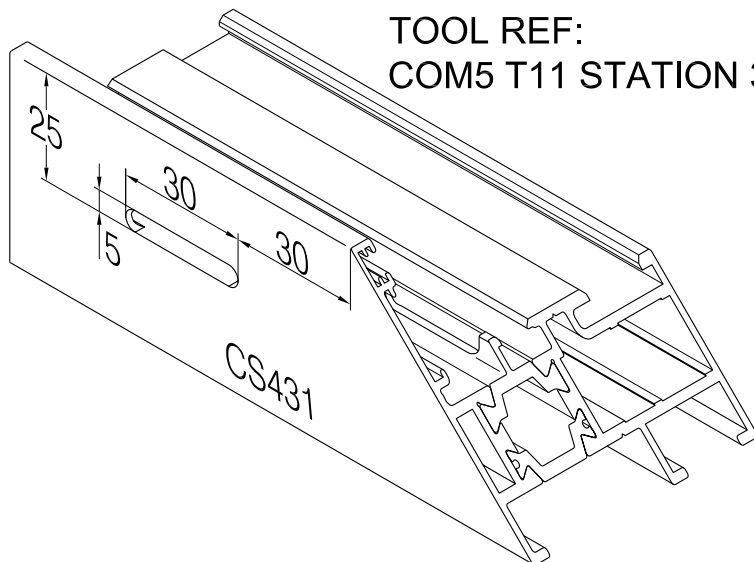
Profiles - Transfer
Mitre cut to the work size - 45mm

Profiles - Sash Frames
Mitre cut to the work size - 113mm
or Edge to $\varnothing$ - 96.5mm
 $\varnothing$ to $\varnothing$ - 80mm

Profiles - Mullion / Transoms
Square cut to the work size - 58mm

Glass
Sash Glass
Sash size - 79mm

**CS431 OUTERFRAME
DRAINAGE SLOT
TOOL REF:
COM5 T11 STATION 3**



**DRAINAGE PUNCH SHOULD
BE STAGGERED FROM
FRAME TO POLYIMIDE TO
PREVENT A STRAIGHT
THROUGH WATER PATH
AND WHISTLING**

FOR PUNCH TOOLING & CRIMPING REFERENCES SEE TOOLING SECTION



TOP SWING & CONCEALED HINGE CASEMENT
PREPARATION FOR TOP SWING HINGE

SIZE CHART FOR STANDARD MODULAR SIZES

MAXIMUM GLAZED WEIGHT FOR ALL MODULES IS 60 kgs.

MODULE REF.	TRACK LENGTH	OUTER FRAME DIM (H) MIN - (MODULE) - MAX	SASH HEIGHT MIN - (MODULE) - MAX	P (RM - SASH) (MODULE)
6	524	565-(615)-643	452-(502)-530	(238)
6.5	580	644-(671)-697	531-(558)-584	(264)
7	624	698-(715)-743	585-(602)-630	(288)
7.5	680	744-(771)-797	631-(658)-684	(312)
8	724	798-(815)-843	685-(702)-730	(336)
8.5	780	844-(871)-897	731-(758)-784	(364)
9	824	898-(915)-943	785-(802)-830	(388)
9.5	880	944-(971)-997	831-(858)-884	(412)
10	924	998-(1015)-1043	885-(902)-930	(436)
10.5	980	1044-(1071)-1097	931-(958)-984	(458)
11	1024	1098-(1115)-1143	985-(1002)-1030	(488)
11.5	1080	1144-(1171)-1197	1031-(1058)-1084	(512)
12	1124	1198-(1215)-1243	1085-(1102)-1130	(536)
12.5	1180	1244-(1271)-1297	1131-(1158)-1184	(564)
13	1224	1298-(1315)-1343	1185-(1202)-1230	(588)
13.5	1280	1344-(1371)-1397	1231-(1258)-1284	(612)
14	1324	1398-(1415)-1443	1285-(1302)-1330	(636)
14.5	1380	1444-(1471)-1497	1331-(1358)-1384	(664)
15	1424	1498-(1515)-1543	1385-(1402)-1430	(688)
15.5	1480	1544-(1571)-1597	1431-(1458)-1484	(712)
16	1524	1598-(1615)-1643	1485-(1502)-1530	(736)

OPTIMUM SASH HEIGHT (SHOWN IN BRACKETS) IS BASED ON MODULE TRACK LENGTH.

FOR SMALLER NON-MODULAR SIZE SASHES, THE TRACK MAY BE REDUCED BY UP TO 50mm AS SHOWN BY HATCHED AREA. REMEMBER THAT DIMENSION 'F' MUST BE REDUCED BY THE SAME AMOUNT.

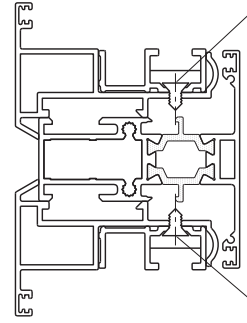
FOR MULTI LIGHTS OR NON STANDARD OUTER FRAMES, FIRST CALCULATE SASH MODULE SIZE, AS BEFORE ADJUST THE 'F' DIMENSION IF REQUIRED.

NOTE: WHERE WINDOWS ARE PRODUCED IN NON-MODULAR SIZES, THE CASEMENT BOTTOM RAIL, WILL IN SOME CASES REVERSE ABOVE THE HEAD OF THE FRAME AND MAY STRIKE THE SOFFIT.

TO PREVENT THIS FROM HAPPENING, STOP BLOCKS REF. No.3820 ARE AVAILABLE AS ACCESSORIES AND CAN BE FITTED INTO THE TOP GLIDER CHANNEL.

MODULE TRACK LENGTH = OUTER FRAME (H) - 91mm

SASH HEIGHT = OUTER FRAME (H) - 113mm

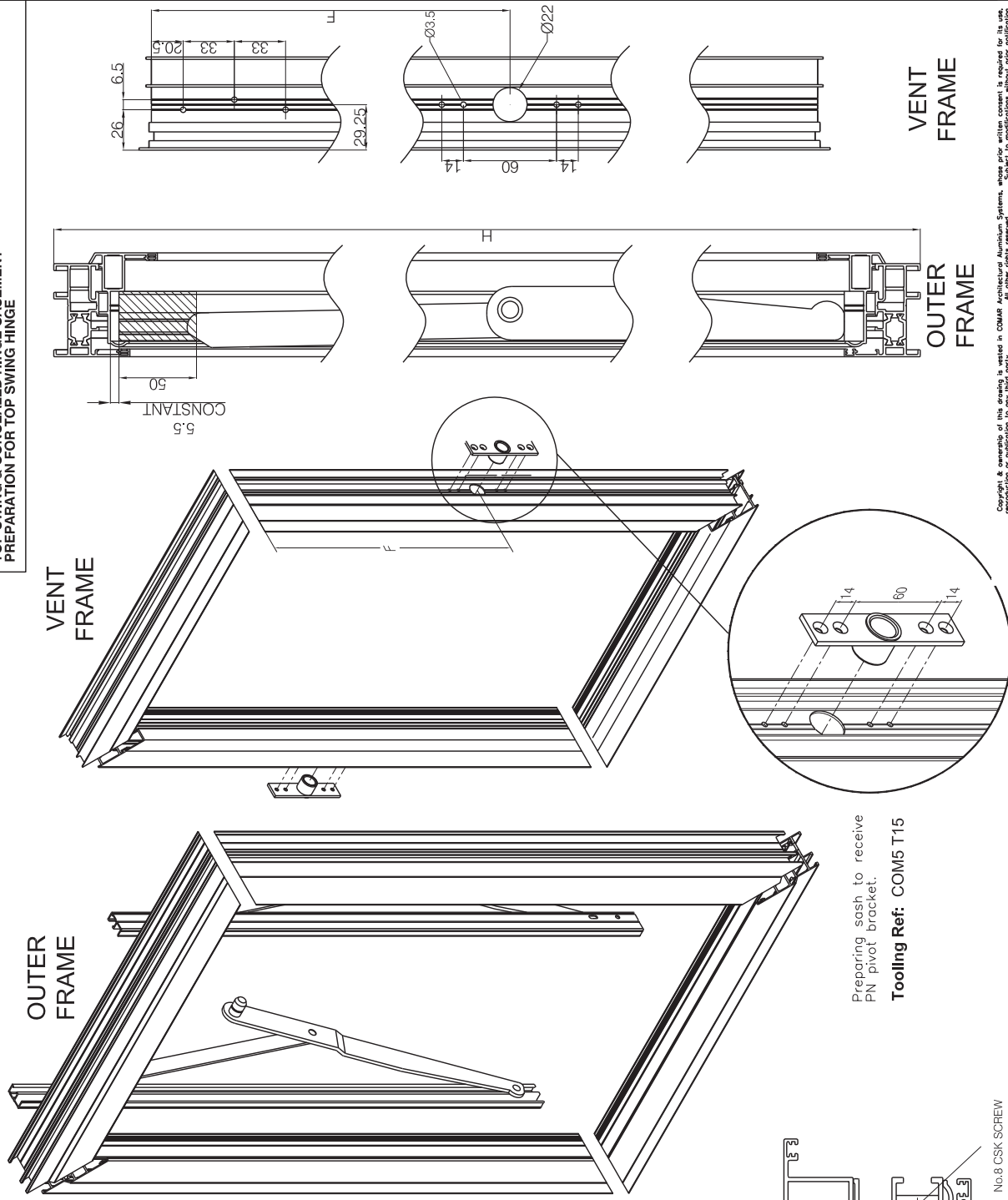


No.8 CSK SCREW

PN
FITTING



comar
ARCHITECTURAL ALUMINIUM SYSTEMS



Preparing sash to receive
PN pivot bracket.

Tooling Ref: COM5 T15

NOTE:
ACCURACY OF TOPSWING GEARING PREPARATION IS
REQUIRED. THE GEARING DOES NOT OFFER ANY FINAL
ADJUSTMENT.



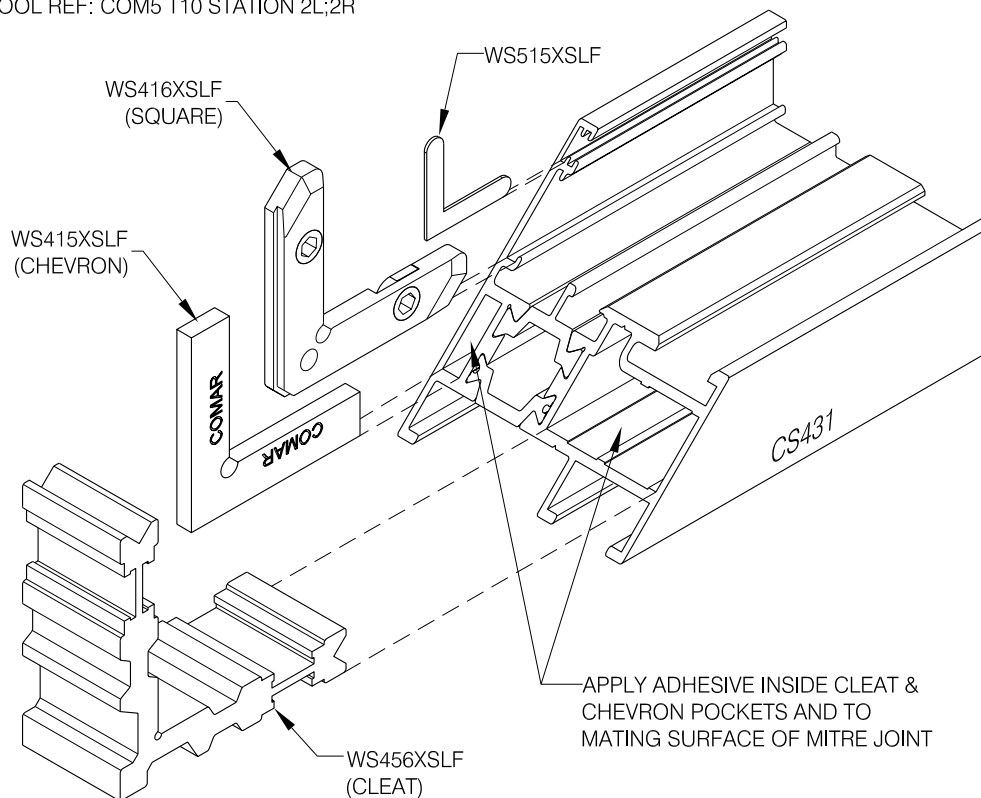
THE PARKSIDE GROUP LTD
UNIT 5 THE WILLOW CENTRE
177 LANE WITCHAM
SURREY GU24 0JH
Tel: 020-8695 9885 Fax: 020-8697 1142
Email: technical@parksidegroup.co.uk
Web Site: http://www.comar-uk.co.uk

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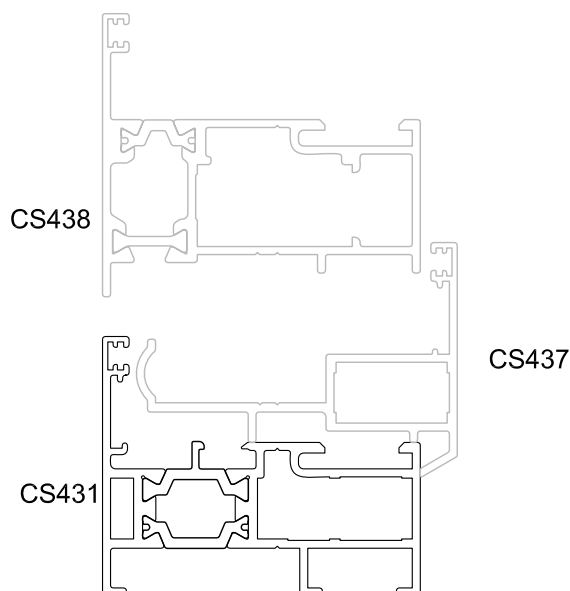
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DATE	19/02/08	
DRAWN	APW/CAD	
DRG. No.	C5P1	- 6.1.11

CS431 OUTER FRAME - MITRED ILLUSTRATION

CAM SLUG TOOL REF: COM5 T10 STATION 2L;2R



ADHESIVE REF: SE007WHT (WHITE)
SE007BLK (BLACK)
SE008XSFLF (CLEAR)



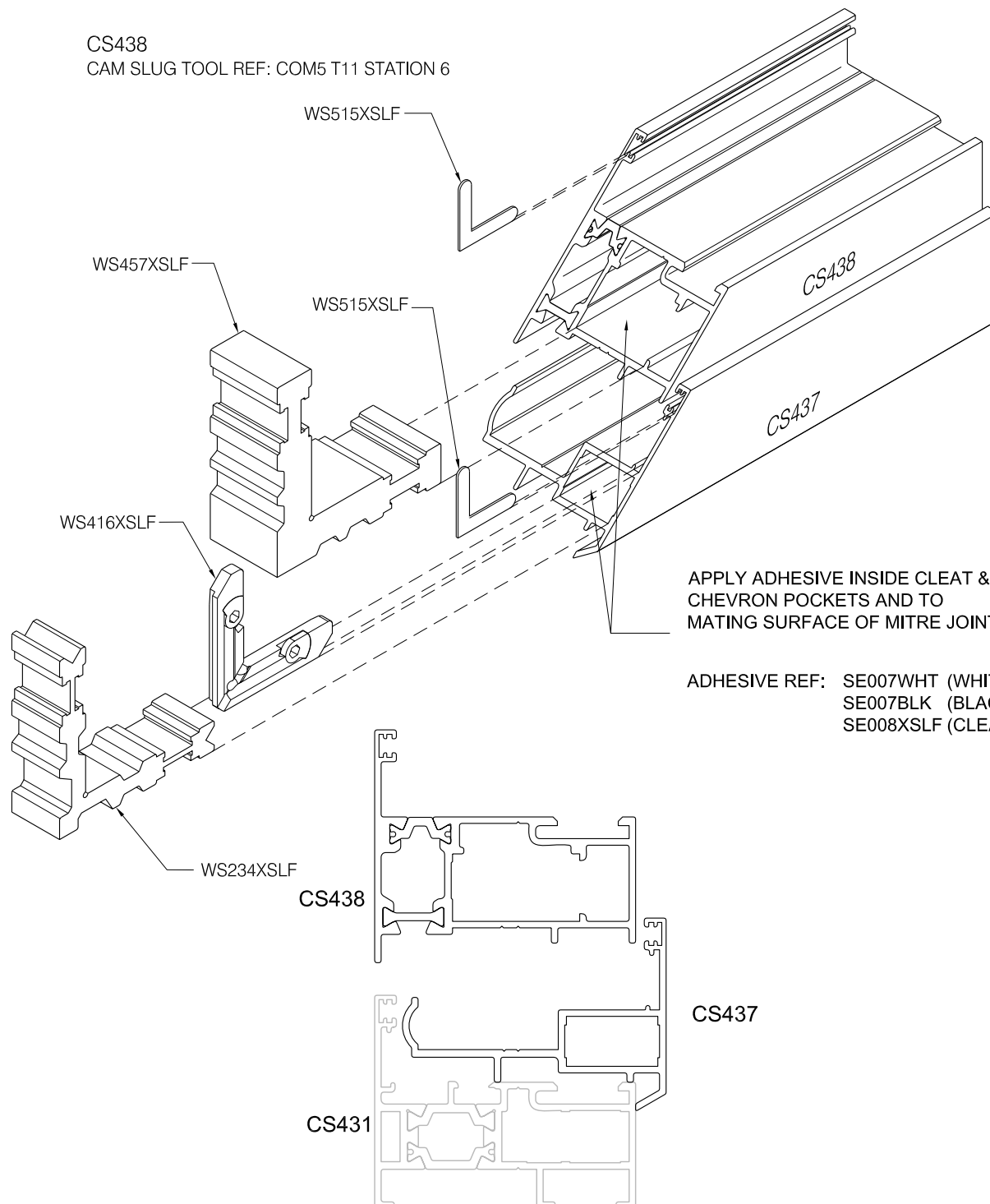
FOR PUNCH TOOLING & CRIMPING REFERENCES SEE TOOLING SECTION



CS438 & CS437 SASH FRAME - MITRED ILLUSTRATION

CS438

CAM SLUG TOOL REF: COM5 T11 STATION 6



FOR PUNCH TOOLING & CRIMPING REFERENCES SEE TOOLING SECTION



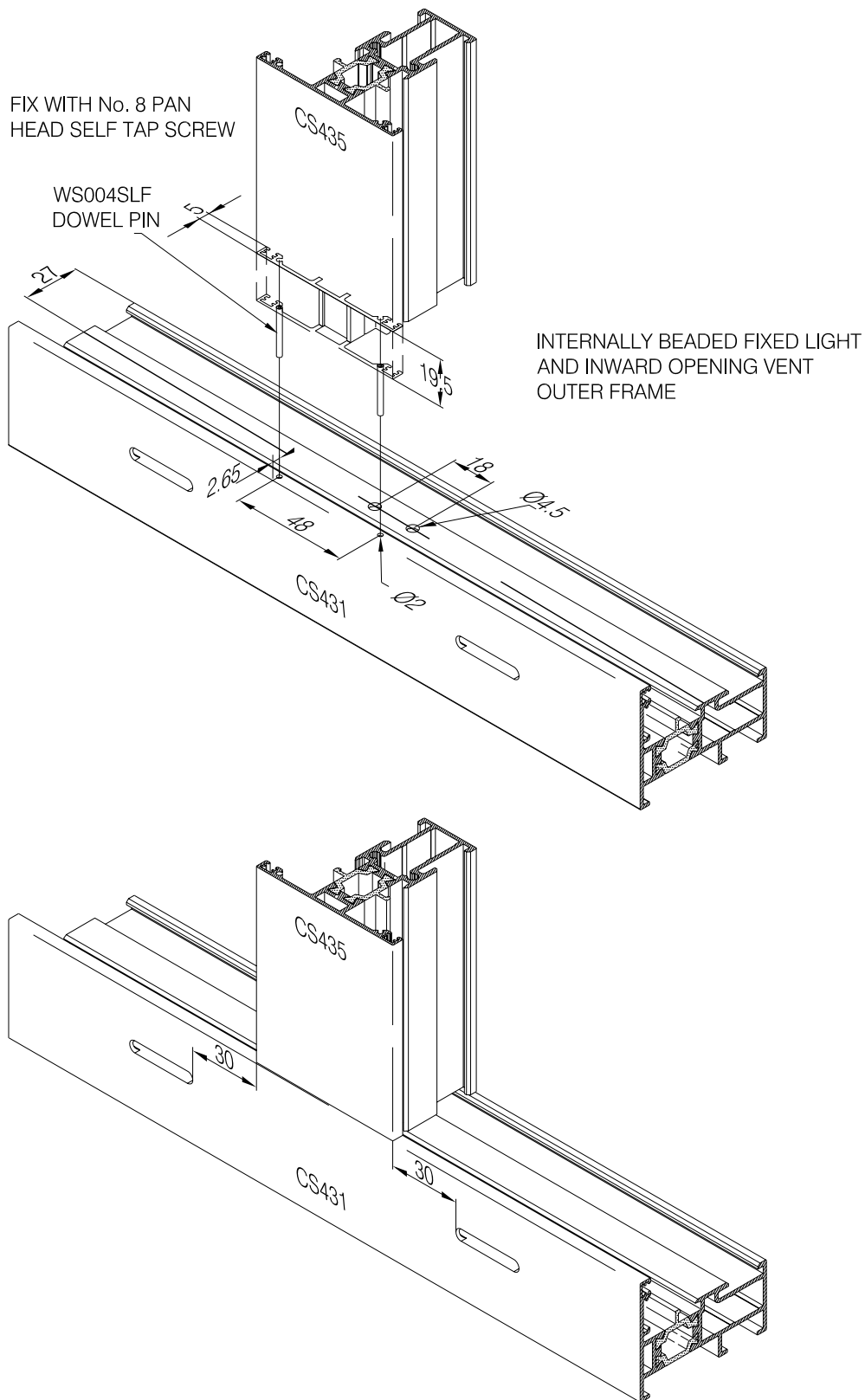
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ARCHITECTURAL ALUMINIUM SYSTEMS

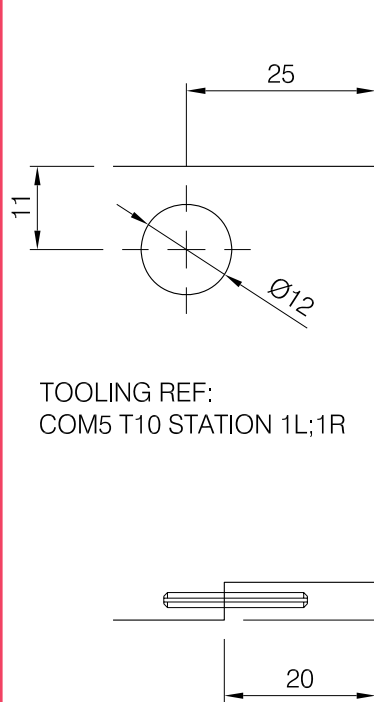
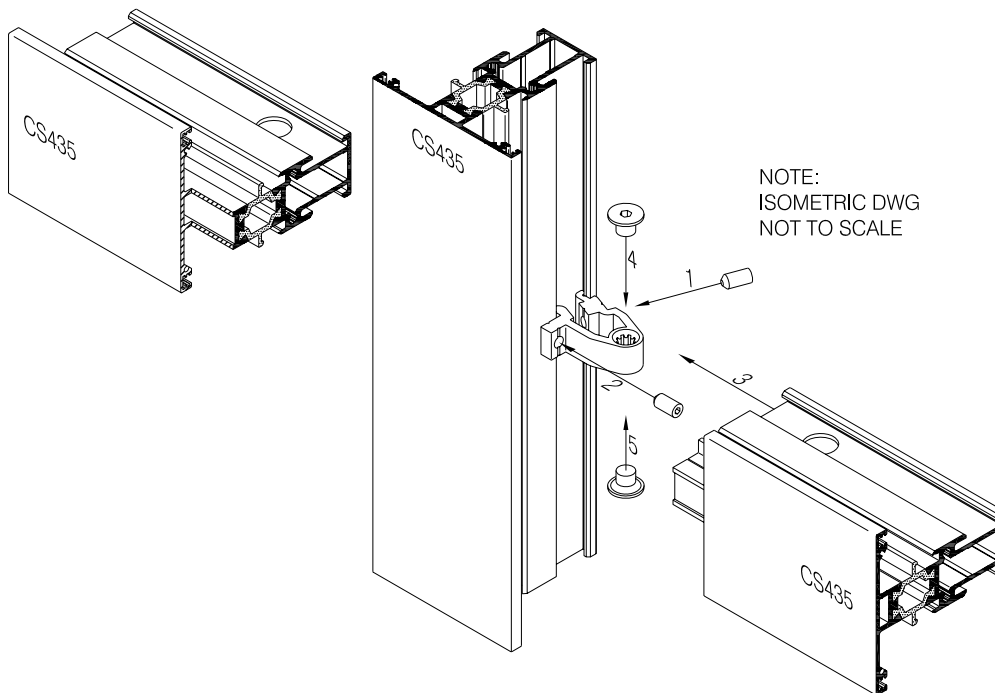


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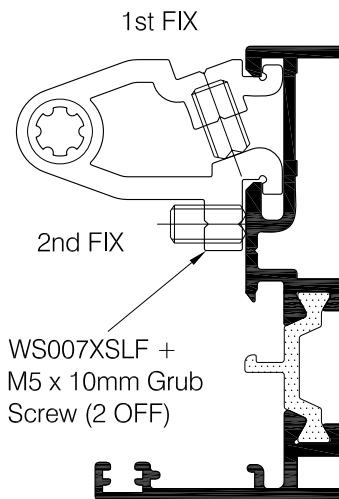
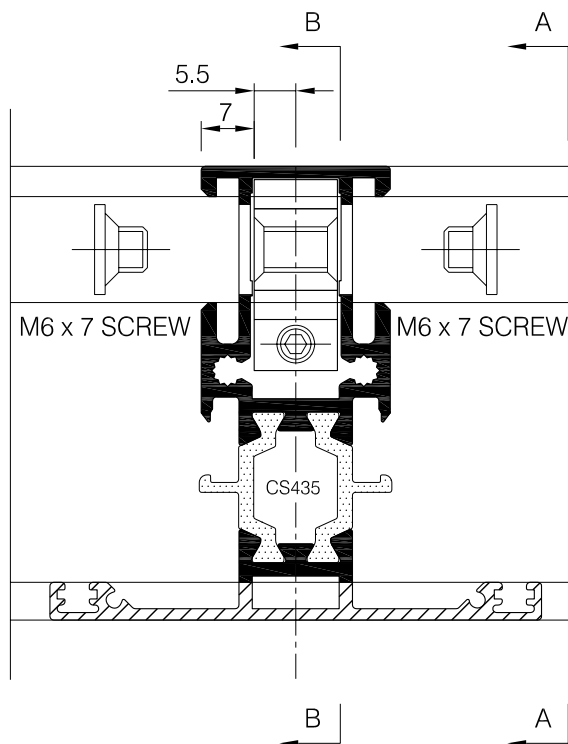
THE PARKSIDE GROUP LTD
UNIT 5 ° THE WILLOW CENTRE
17 WILLOW LANE ° MITCHAM
SURREY ° CR4 4NX
Tel: 020-8685 9685 Fax: 020-8687 1142
Email: technical@parksidegrp.co.uk
Web Site: <http://www.comar-alu.co.uk>

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DATE	20/02/08	
DRAWN	APW/CAD	
DRG. No.	C5Pi - 6.1.13	





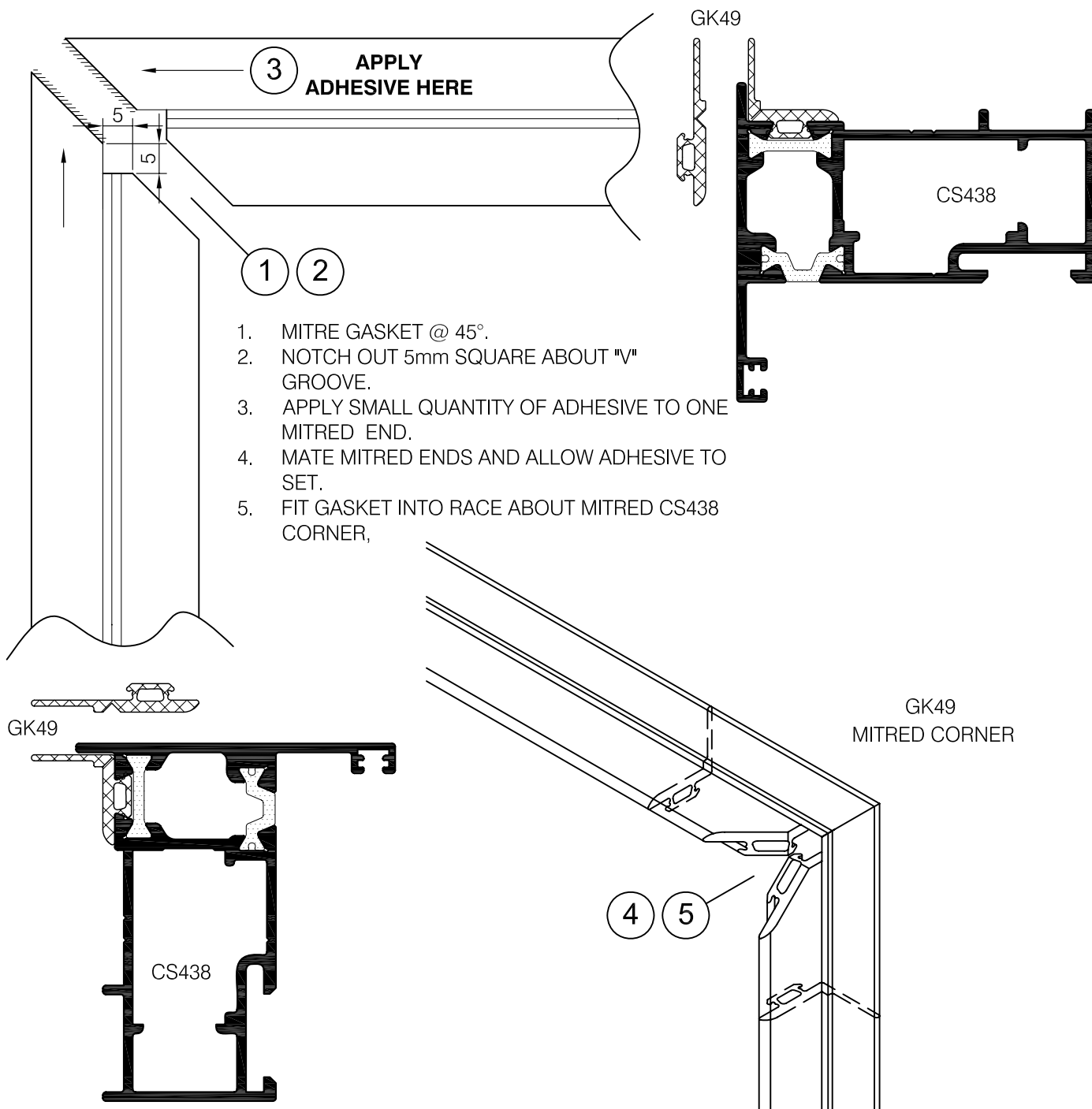
VIEW ON A-A



VIEW ON B-B

FOR PUNCH TOOLING & CRIMPING REFERENCES SEE TOOLING SECTION





NOTE: COMAR APPROVED OR INDUSTRY
RECOGNISED GASKET ADHESIVE IS TO
BE USED.



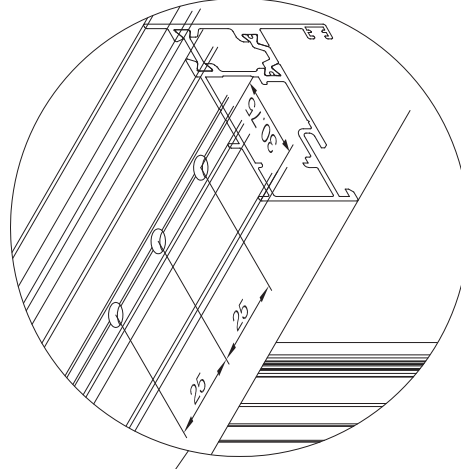
Outer
Frame

Vent
Frame

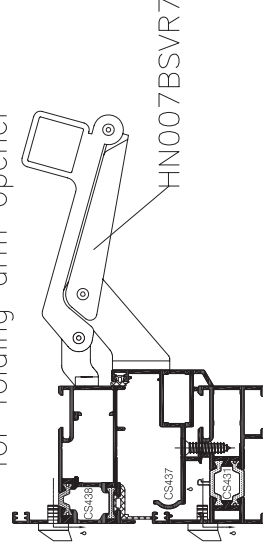
USE RIV-NUTS FOR VENTS UP TO 65kg.
OVER 65kg USE TAPPED BACK PLATES & TYPICALLY
M6 x 10 PAN STAINLESS

NOT SUPPLIED BY PARKSIDE GROUP

WS001



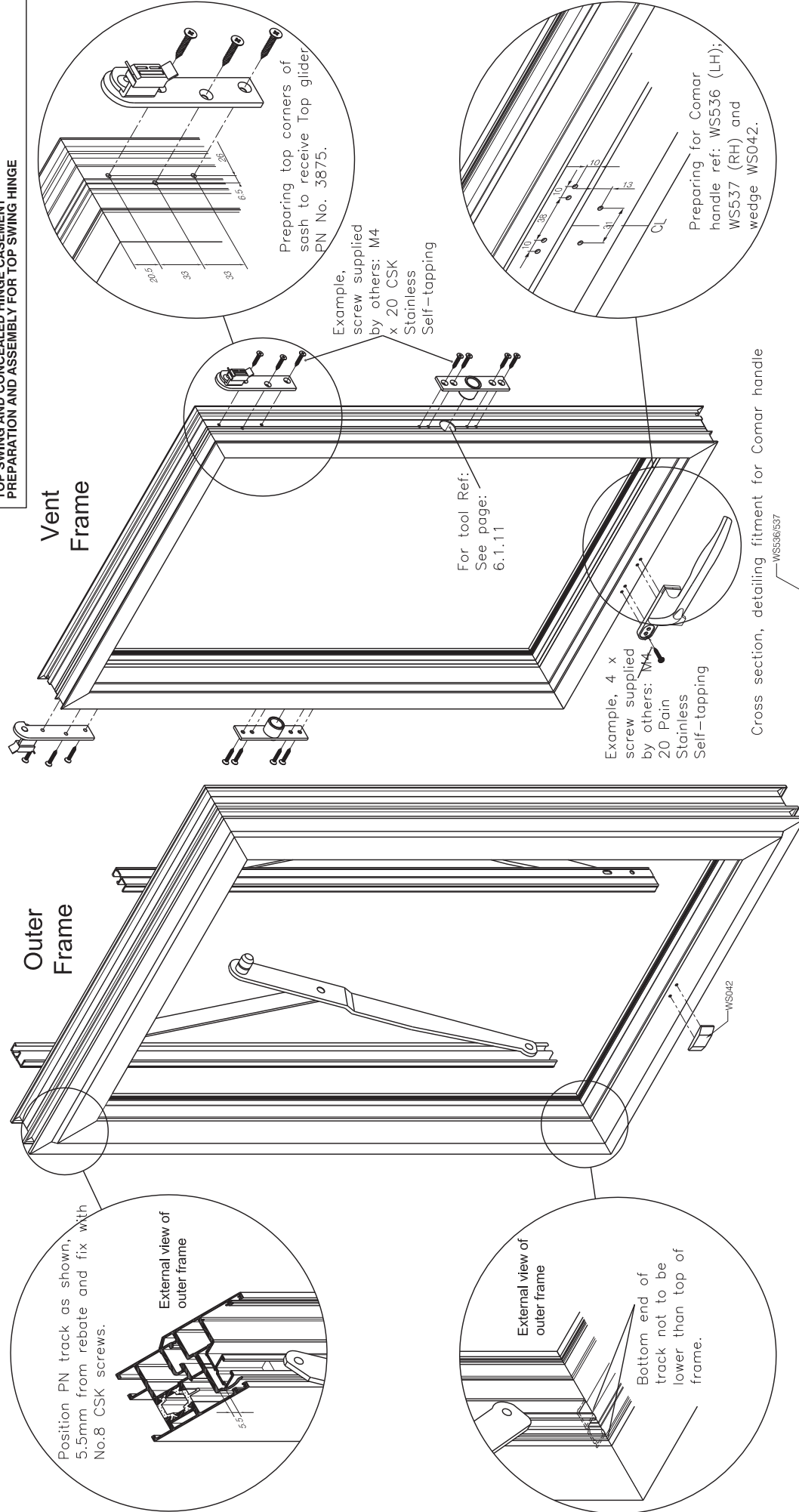
Cross section, detailing fitment
for folding arm opener



Outer frame and vent shown from
the inside to illustrate fitting of
window hardware.



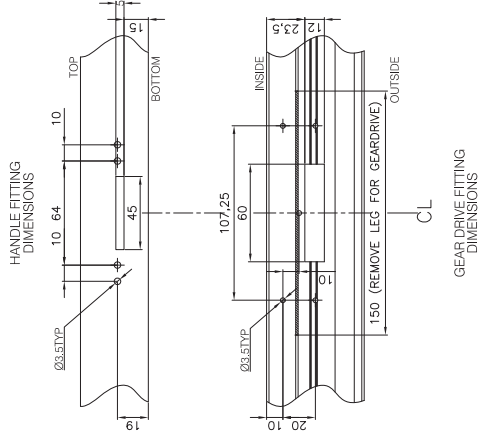
TOP SWING AND CONCEALED HINGE CASEMENT
PREPARATION AND ASSEMBLY FOR TOP SWING HINGE



Outer frame and vent shown from the inside to illustrate fitting of window hardware.

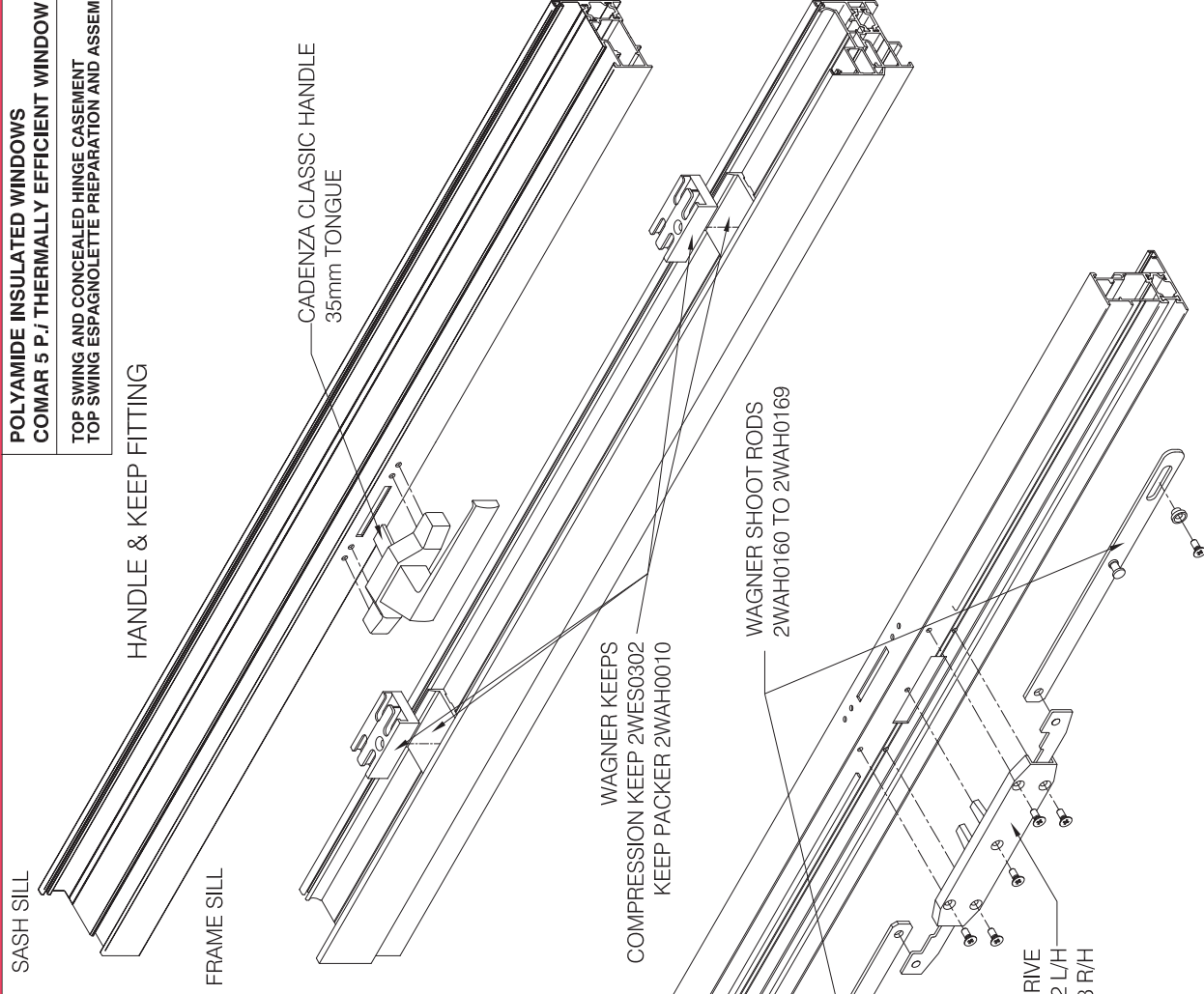


TOP SWING ESPAGNOLETTE LOCKING OPTION

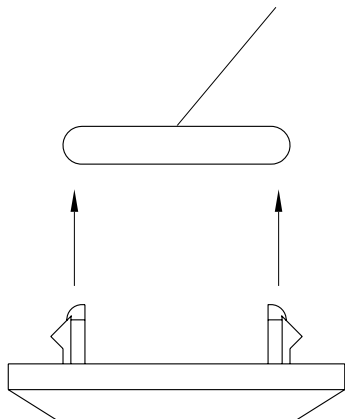


SCALE 1:2

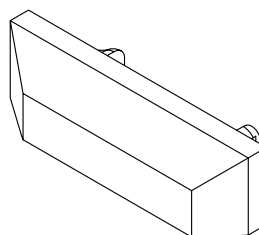
NOTE:
Wagner gear drive offers good locking mechanism although in this particular profile arrangement does not offer security.



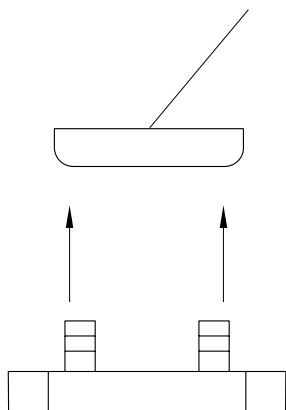
5mm x 30mm SLOT



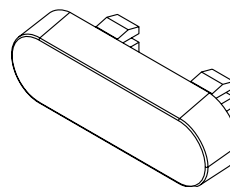
DRAIN CAP REFERENCE :
WS020EWHT
WS020DBLK



5mm x 25mm SLOT



DRAIN CAP REFERENCE :
WS021EWHT
WS021DBLK



NOTE :-

COVER CAPS SHOULD BE GLUED IN
PLACE WITH ADHESIVE REF: SE007
BLACK OR WHITE FOR SECURITY

