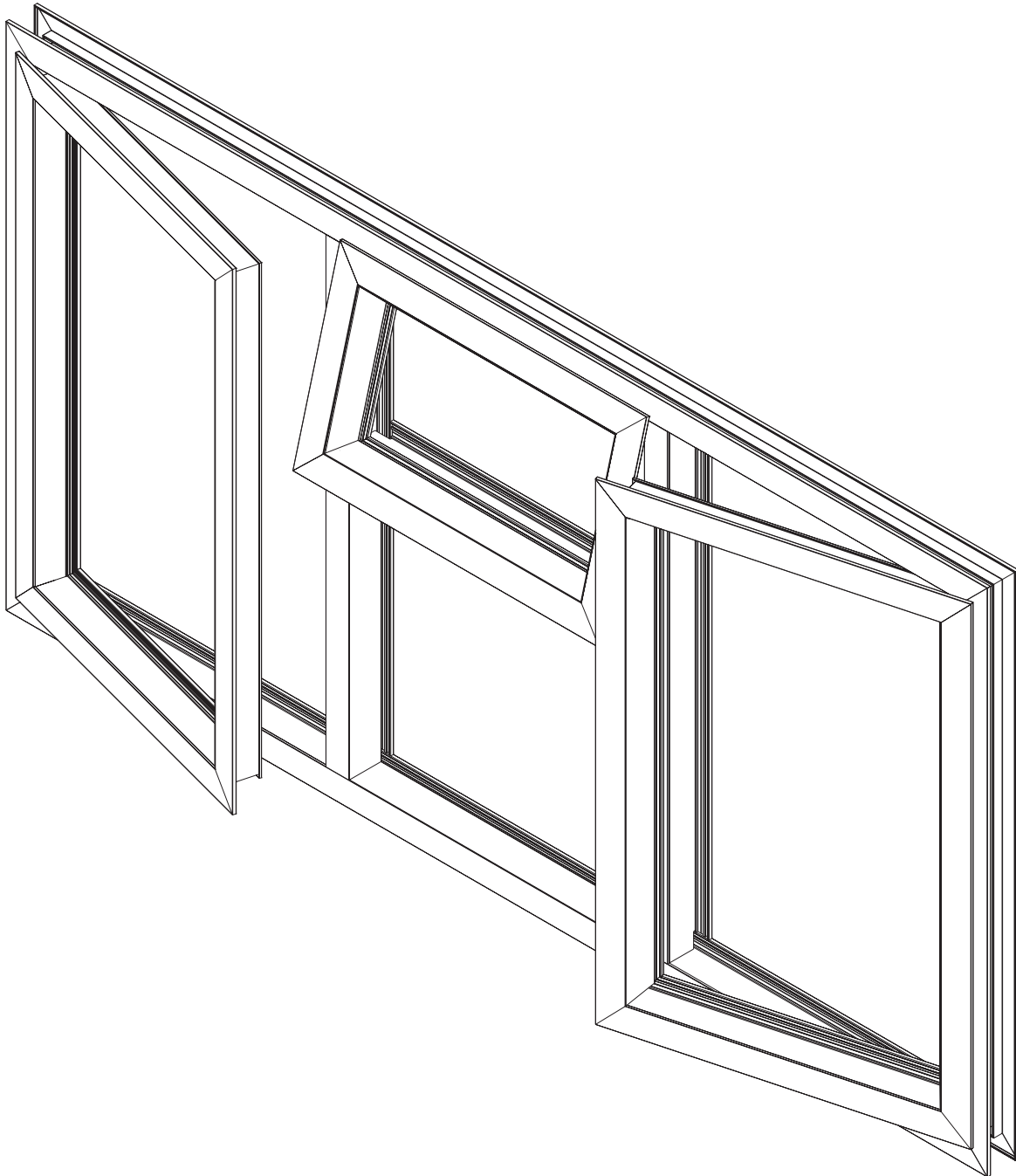




sheerline
aluminium systems

SHEERSASH 38 WINDOW SYSTEM



PRODUCT MANUAL

Disclaimer: The right to make alterations is reserved
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Revision: 01/10/2010



LEGAL DISCLAIMER

All information, recommendations or advice contained in this documentation is given in good faith to the best of Sheerline's knowledge and is based on current procedures in effect.

Since the actual use of this documentation by the user is beyond the control of Sheerline, such use is within the exclusive responsibility of the user. Sheerline cannot be held responsible for any loss incurred through incorrect or faulty use of this documentation.

Great care has been taken to ensure that the information provided is correct. Sheerline will accept no responsibility for any errors and/or omissions, which may have inadvertently occurred.

All mechanical joints must be sealed with a Sheerline approved joint sealer.

Laminated glass must not stand in water.

All drawings in the Sheerline Documentation are shown NOT to scale.

Sheerline cannot accept responsibility for the use of standard products since Sheerline does not know where these products are being installed.

The use of anti-magnetic stainless steel screws and pop rivets is recommended to reduce galvanic corrosion in harsh environments.

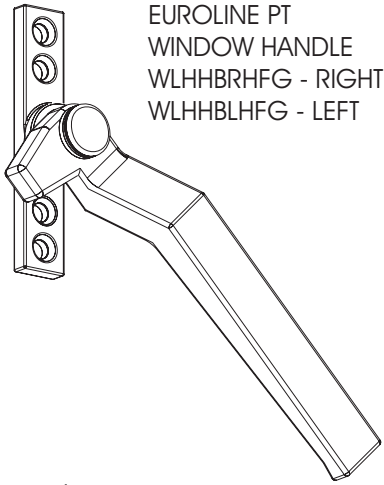
The hardware recommended in this documentation is suitable for use in most atmospheric environments. When hardware is used in severe coastal environments the manufacturer of the hardware must be consulted.

Fixing lugs on frames must be positioned as per the user manual and used in accordance to the AAAMSA specifications. When profiles are screwed together the screw centers must also be according to the user manual.

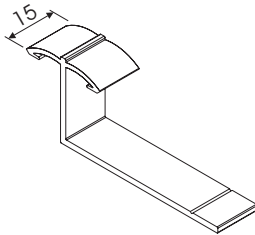
All glass used within Sheerline products must comply with SAGGA regulations.

By continuing to use this documentation you acknowledge that you understand and accept the legal disclaimer.

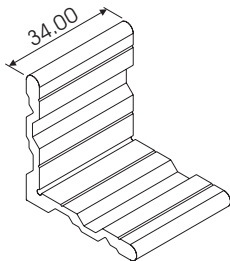
SHEERSASH 38 WINDOW SYSTEM HARDWARE IDENTIFICATION



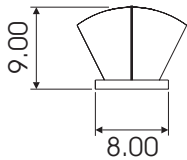
EUROLINE PT
WINDOW HANDLE
WLHHBRHFG - RIGHT
WLHHBLHFG - LEFT



MULTI FIXING LUG ALUM 15mm
FIX10627



38 CASELITE
CORNER CLEAT
W24047



FINPILE
FP48500FG



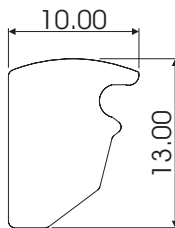
4.8x10
DOME RIVET
CSKR4810



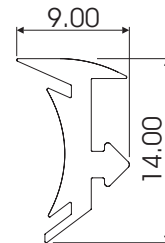
8x30 P/HEAD POSI
S/S SCREW
SC0830P



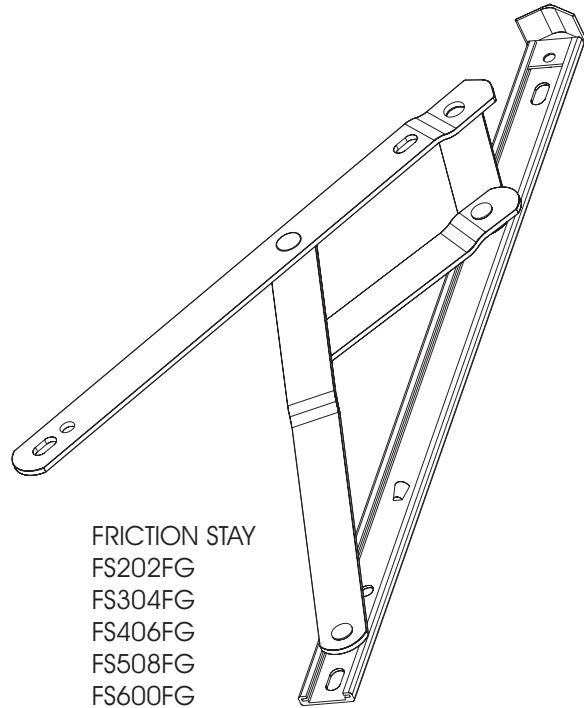
8x9 C/S
HANDLE SCREW
BLUNT POINT
STPPS895



WEDGE H2
CLRIV3FG

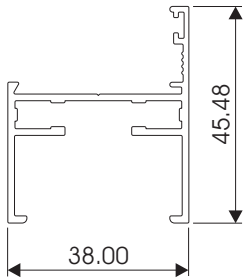


BUTTERFLY H20
VP300FG

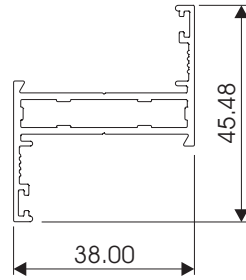


FRICITION STAY
FS202FG
FS304FG
FS406FG
FS508FG
FS600FG

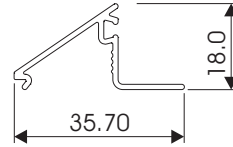
SHEERSASH 38 WINDOW SYSTEM PROFILE IDENTIFICATION



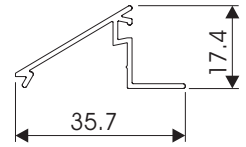
NEW CAS38 EQUAL LEG
OUTER FRAME
3801A



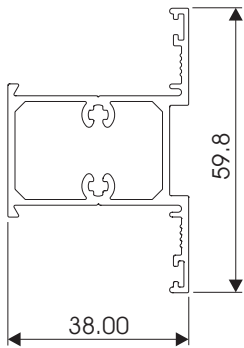
NEW CAS38 TUBULAR SASH
3802A



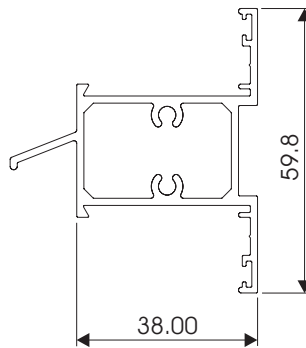
NEW CAS38 GLAZING
BEAD 3mm - 5mm
3808



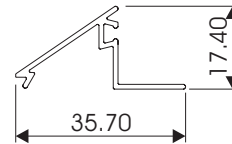
CAS38 GLAZING
BEAD 3mm - 5mm
3804



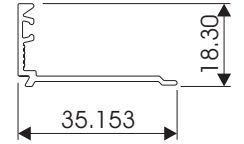
NEW CAS38 MULLION/
TRANSOM
3803A



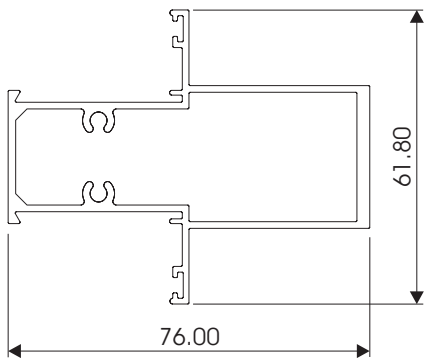
CAS38 TRANSOM WITH
WEATHER BAR
3806



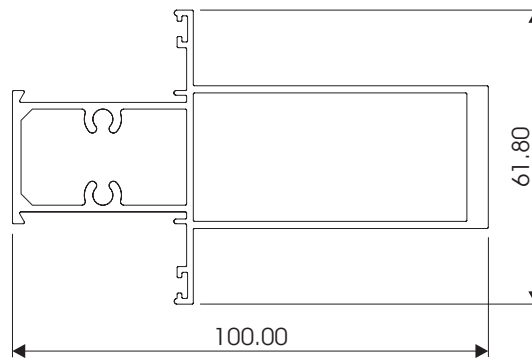
CAS38 GLAZING
BEAD 7 - 8mm
3805



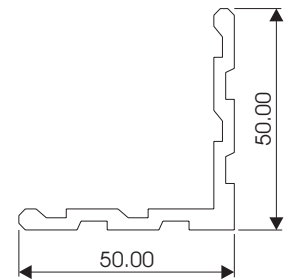
CAS38 DOUBLE
GLAZING BEAD 25mm
3807A



CAS38 76mm MULLION
3810

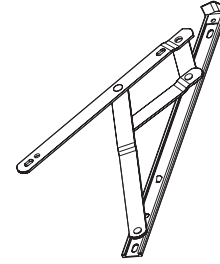


CAS38 100mm MULLION
3809



CAS28 50mm
CORNER CLEAT
W52695

SHEERSASH 38 WINDOW SYSTEM FRICTION STAY GUIDE



STAINLESS STEEL FRICTION STAYS (HANDED)

1. STANDARD PURPOSE

1.1 TOP HUNG

REF. NO	MAX VENT HEIGHT IN mm	MAX VENT WIDTH IN mm	MAX VENT WEIGHT IN kg	ANGLE OF OPENING degrees
150	300	1200	10	50
200	350	1200	12	50
250	400	1200	16	80
300	550	1200	20	80
400	750	1200	21	80
500	1000	1200	24	50
500	850	1200	24	50
600	1200	1200	35	34.5

1.2 SIDE HUNG

REF. NO	MAX VENT HEIGHT IN mm	MAX VENT WIDTH IN mm	MAX VENT WEIGHT IN kg	ANGLE OF OPENING degrees
300	1300	600	22	60
300 C	1300	600	22	60
400	1300	700	24	60

2. HEAVY DUTY

2.1 TOP HUNG

REF. NO	MAX VENT HEIGHT IN mm	MAX VENT WIDTH IN mm	MAX VENT WEIGHT IN kg	ANGLE OF OPENING degrees
ST10	635	2000	37	50
ST12	787	2000	45	50
ST16	1090	2000	55	50
ST22	1500	2000	75	45
ST26	2000	2000	100	20
730A	2000	2200	120	10, 13 & 15

2.2 SIDE HUNG

REF. NO	MAX VENT HEIGHT IN mm	MAX VENT WIDTH IN mm	MAX VENT WEIGHT IN kg	ANGLE OF OPENING degrees
STS10	1524	660	38	85
STS16	1625	838	47	90

SHEERSASH 38 WINDOW SYSTEM FRICTION STAY GUIDE



STAINLESS STEEL FRICTION STAYS (NON HANDED)

1. TOP HUNG - 4 BAR

REF. NO	MAX VENT HEIGHT IN mm	MAX VENT WIDTH IN mm	MAX VENT WEIGHT IN kg	ANGLE OF OPENING degrees
203	300	1100	7	70
254	375	1100	8	57
300	450	1100	10	90
406	600	1100	13	90
508	750	1100	16	50
610	900	1100	26	60
570 HD	1200	1100	40	90

2. SIDE HUNG - 5 BAR

REF. NO	MAX VENT HEIGHT IN mm	MAX VENT WIDTH IN mm	MAX VENT WEIGHT IN kg	ANGLE OF OPENING degrees
300	1300	600	22	60

FOUR BAR ALUMINIUM FRICTION HINGE HEAVY DUTY

1. TOP HUNG

REF. NO	MAX VENT HEIGHT IN mm	MAX VENT WEIGHT IN kg	ANGLE OF OPENING degrees
200 N4B	600	6	49
200 N4B V	400	6	30
250 N4B	750	6	49
300 N4B	1000	7	38
500 N4B	1300	12	29
750 N4B	1800	13	27

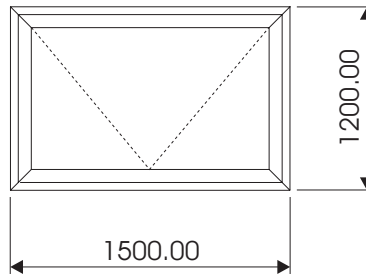
2. SIDE HUNG

REF. NO	MAX VENT HEIGHT IN mm	MAX VENT WEIGHT IN kg	ANGLE OF OPENING degrees
300 N4B C	600	20	54
300 N4B C	750	16	54

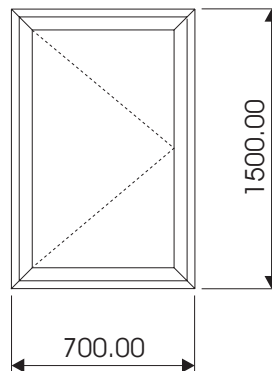
SHEERSASH 38 WINDOW SYSTEM SASH LIMITATION CHARTS



		Maximum Vent Width in mm	Maximum Vent Height in mm
Top Hung	W13267	1500	1200



		Maximum Vent Width in mm	Maximum Vent Height in mm
Side Hung	W13267	700	1500



STANDARD TOP HUNG SHEERSASH 38 WINDOWS 600Pa WINDLOAD



NOTE:

1. SEE THE MULLION LIMITATION CHART
2. OPENING SIZES SHOWN IN RED
3. ACTUAL WINDOW SIZES SHOWN IN BLACK AND BRACKETS.

	600 (590)	900 (890)	1 200 (1190)	1 500 (1490)	1 800 (1790)	2 400 (2390)
600 (590)	 38 -0606T	 38 -0906T	 38 -1206T	 38 -1506T	 38 -1806TT	 38 -2406TT
900 (890)	 38 -0609T	 38 -0909T	 38 -1209T	 38 -1509T	 38 -1809TT	 38 -2409TT
1200 (1190)	 38 -0612T	 38 -0912T	 38 -1212DT	 38 -1512DT	 38 -1812DT	 38 -2412DT
1500 (1490)	 38 -0615DT	 38 -0915DT	 38 -1215DT	 38 -1515DT	 38 -1815DT	 38 -2415DT
1800 (1790)	 38 -0618DT	 38 -0918DT	 38 -1218DT	 38 -1518DT 76mm Mull 3810	 38 -1818DT 76mm Mull 3810	 38 -2418DT 76mm Mull 3810

STANDARD TOP HUNG SHEERSASH 38 WINDOWS 1000Pa WINDLOAD



NOTE:

1. SEE THE MULLION LIMITATION CHART
2. OPENING SIZES SHOWN IN RED
3. ACTUAL WINDOW SIZES SHOWN IN BLACK AND BRACKETS.

	600 (590)	900 (890)	1 200 (1190)	1 500 (1490)	1 800 (1790)	2 400 (2390)
600 (590)	 38 -0606T	 38 -0906T	 38 -1206T	 38 -1506T	 38 -1806TT	 38 -2406TT
900 (890)	 38 -0609T	 38 -0909T	 38 -1209T	 38 -1509T	 38 -1809TT	 38 -2409TT
1200 (1190)	 38 -0612T	 38 -0912T	 38 -1212DT	 38 -1512DT	 38 -1812DT	 38 -2412DT
1500 (1490)	 38 -0615DT	 38 -0915DT	 38 -1215DT	 38 -1515DT 76mm Mull 3810	 38 -1815DT 76mm Mull 3810	 38 -2415DT 76mm Mull 3810
1800 (1790)	 38 -0618DT	 38 -0918DT	 38 -1218DT 76mm Mull 3810	 38 -1518DT 76mm Mull 3810	 38 -1818DT 76mm Mull 3810	 38 -2418DT 76mm Mull 3810

STANDARD TOP HUNG SHEERSASH 38 WINDOWS 1500Pa WINDLOAD



NOTE:

1. SEE THE MULLION LIMITATION CHART
2. OPENING SIZES SHOWN IN RED
3. ACTUAL WINDOW SIZES SHOWN IN BLACK AND BRACKETS.

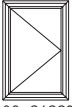

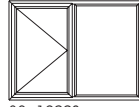
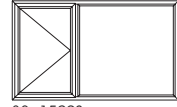


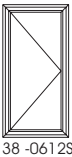
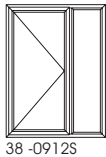
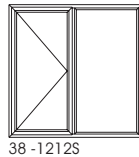
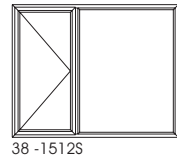
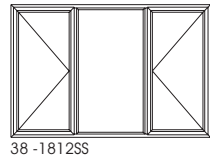
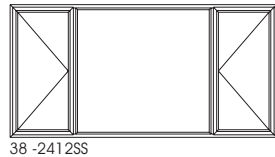
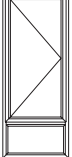
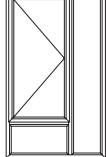
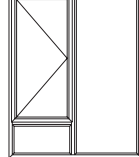
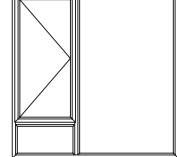
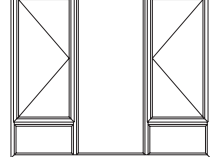

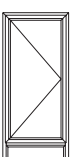
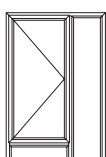
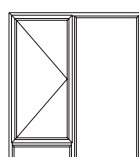
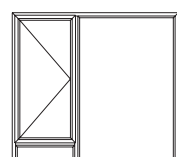
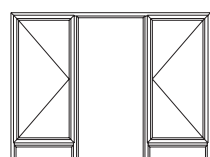
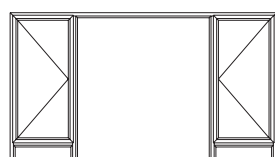
	600 (590)	900 (890)	1 200 (1190)	1 500 (1490)	1 800 (1790)	2 400 (2390)
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1200 (1190)	 38 -0612T	 38 -0912T	 38 -1212DT	 38 -1512DT	 38 -1812DT	 38 -2412DT
1500 (1490)	 38 -0615DT	 38 -0915DT	 38 -1215DT 76mm Mull 3810	 38 -1515DT 76mm Mull 3810	 38 -1815DT 76mm Mull 3810	 38 -2415DT 76mm Mull 3810
1800 (1790)	 38 -0618DT	 38 -0918DT	 38 -1218DT 76mm Mull 3809	 38 -1518DT 76mm Mull 3809	 38 -1818DT 76mm Mull 3809	 38 -2418DT 76mm Mull 3809

STANDARD SIDE HUNG SHEERSASH 38 WINDOWS 600Pa WINDLOAD



NOTE:

1. SEE THE MULLION LIMITATION CHART
2. OPENING SIZES SHOWN IN RED
3. ACTUAL WINDOW SIZES SHOWN IN BLACK AND BRACKETS.

	600 (590)	900 (890)	1 200 (1190)	1 500 (1490)	1 800 (1790)	2 400 (2390)
600 (590)						
900 (890)	 38 -0609S	 38 -0909S	 38 -1209S	 38 -1509S	 38 -1809SS	 38 -2409SS
1200 (1190)	 38 -0612S	 38 -0912S	 38 -1212S	 38 -1512S	 38 -1812SS	 38 -2412SS
1500 (1490)	 38 -0615S	 38 -0915S	 38 -1215S	 38 -1515S	 38 -1815SS	 38 -2415SS
1800 (1790)	 38 -0618S	 38 -0918S	 38 -1218S	 38 -1518S	 38 -1818SS	 38 -2418SS

STANDARD SIDE HUNG SHEERSASH 38 WINDOWS 1000Pa WINDLOAD



NOTE:

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3. ACTUAL WINDOW SIZES SHOWN IN BLACK AND BRACKETS.

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600 (590)						
900 (890)	 38 -0609S	 38 -0909S	 38 -1209S	 38 -1509S	 38 -1809SS	 38 -2409SS
1200 (1190)	 38 -0612S	 38 -0912S	 38 -1212S	 38 -1512S	 38 -1812SS	 38 -2412SS
1500 (1490)	 38 -0615S	 38 -0915S	 38 -1215S	 38 -1515S	 38 -1815SS	 38 -2415SS
1800 (1790)	 38 -0618S	 38 -0918S	 38 -1218S	 38 -1518S	 38 -1818SS	 38 -2418SS

STANDARD SIDE HUNG SHEERSASH 38 WINDOWS 1500Pa WINDLOAD

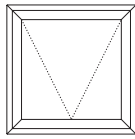


NOTE:

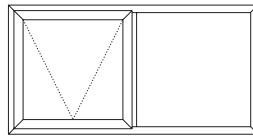
1. SEE THE MULLION LIMITATION CHART
2. OPENING SIZES SHOWN IN RED
3. ACTUAL WINDOW SIZES SHOWN IN BLACK AND BRACKETS.

	600 (590)	900 (890)	1 200 (1190)	1 500 (1490)	1 800 (1790)	2 400 (2390)
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1200 (1190)	 38 -0612S	 38 -0912S	 38 -1212S	 38 -1512S	 38 -1812SS	 38 -2412SS
1500 (1490)	 38 -0615S	 38 -0915S	 38 -1215S	 38 -1515S	 38 -1815SS	 38 -2415SS
1800 (1790)	 38 -0618S	 38 -0918S	 38 -1218S	 38 -1518S	 38 -1818SS	 38 -2418SS

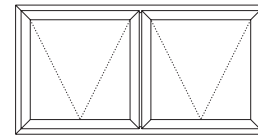
SHEERSASH 38 SYSTEM
STANDARD TOP HUNG WINDOW
TYPICAL CONFIGURATIONS



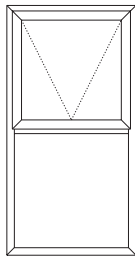
A
SINGLE TOP HUNG



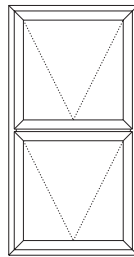
BB
TOP HUNG
NEXT TO FIXED



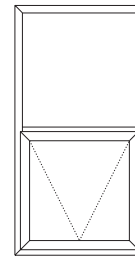
CC
TOP HUNG NEXT
TO TOP HUNG



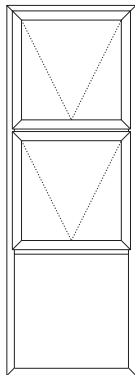
B
TOP HUNG
OVER FIXED



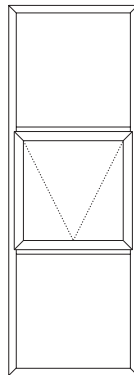
C
TOP HUNG
OVER TOP HUNG



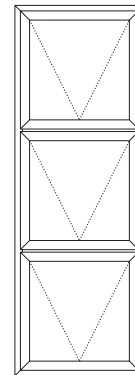
E
FIXED OVER
TOP HUNG



D
DOUBLE TOP HUNG
OVER FIXED

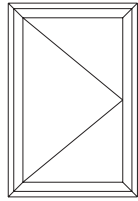


DD
FIXED OVER
TOP HUNG
OVER FIXED

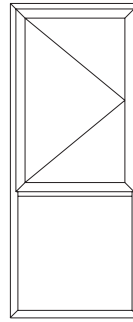


EE
TRIPLE TOP HUNG

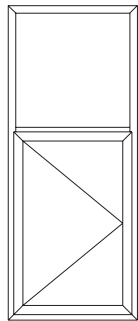
SHEERSASH 38 SYSTEM
STANDARD SIDE HUNG WINDOW
TYPICAL CONFIGURATIONS



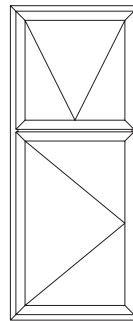
A
SINGLE SIDE HUNG



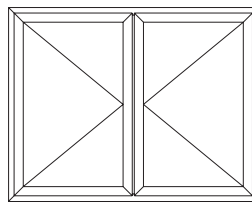
B
SIDE HUNG
OVER FIXED



C
FIXED OVER
SIDE HUNG

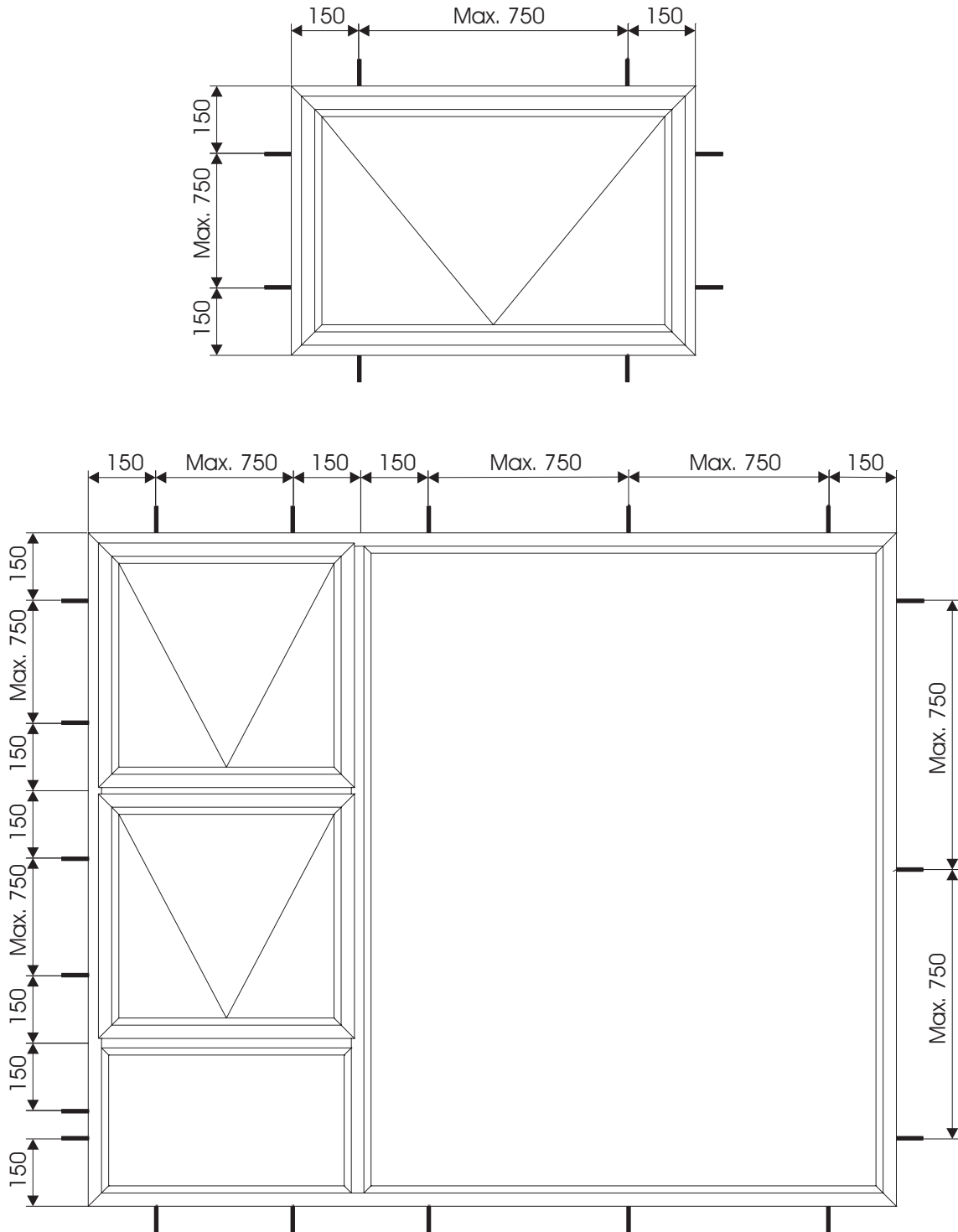


D
TOP HUNG
OVER SIDE HUNG



CC
SIDE HUNG NEXT
TO SIDE HUNG

SHEERSASH 38 SYSTEM FIXING DETAILS



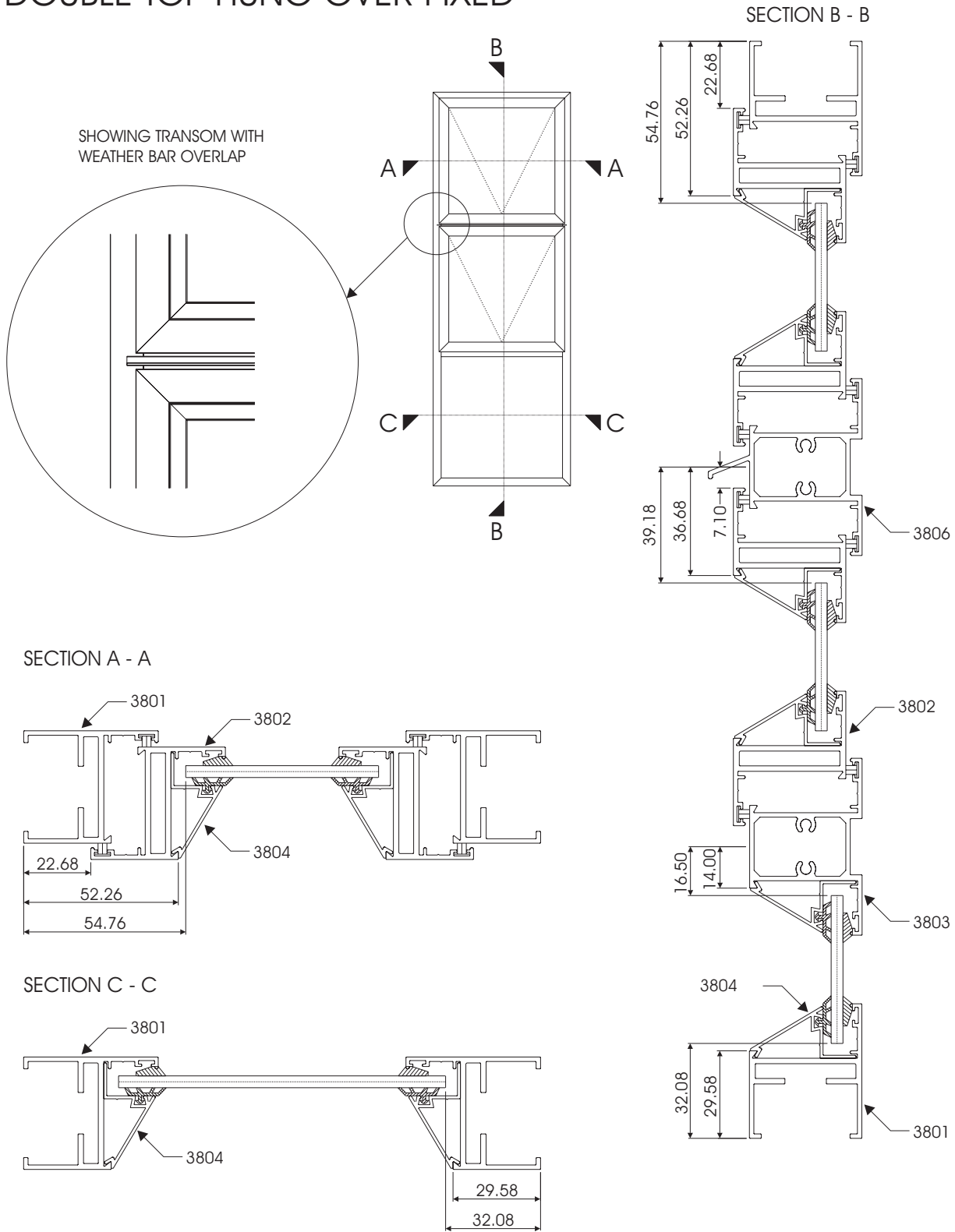
General:

The window is fixed into position - the sill is then built at a later stage - the bottom lugs can be left in place but it is often found that most times the mason either bends them out of his way or breaks them off. This practically means that most windows are only secured on 3 sides.

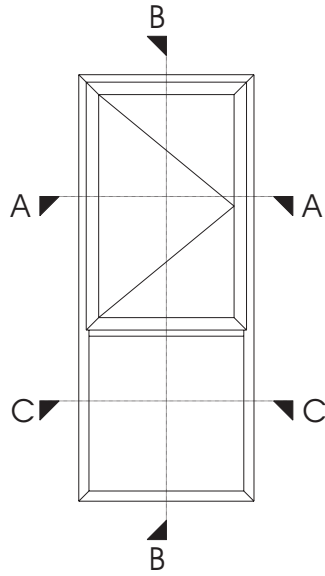
Disclaimer: The right to make alterations is reserved

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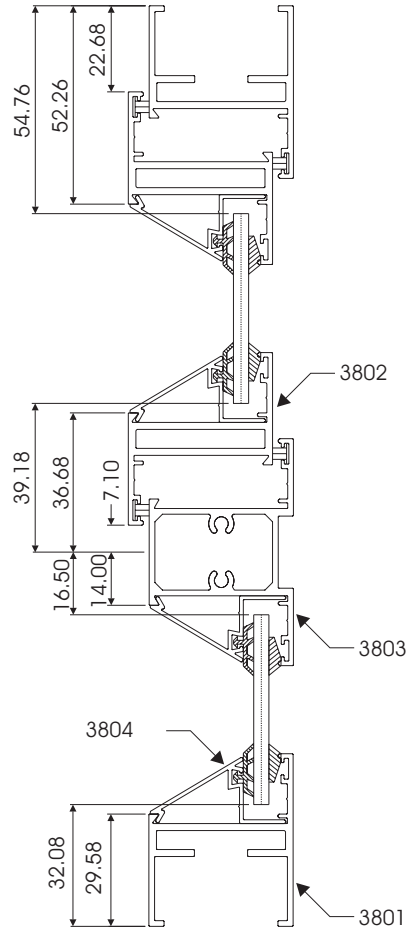
SHEERSASH 38 WINDOW SYSTEM TYPICAL CROSS SECTIONAL DETAIL DOUBLE TOP HUNG OVER FIXED



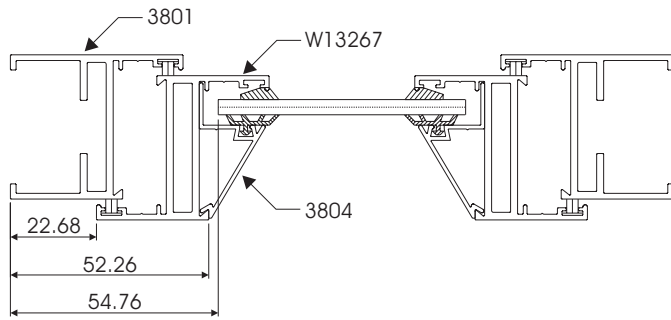
SHEERSASH 38 WINDOW SYSTEM TYPICAL CROSS SECTIONAL DETAIL SIDE HUNG OVER FIXED



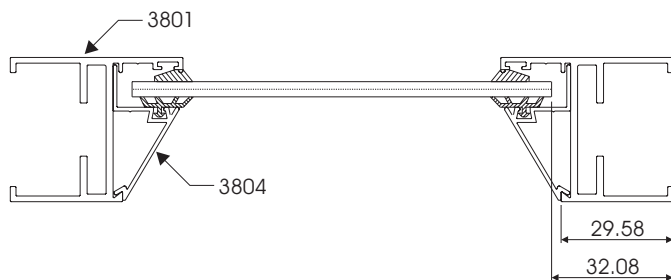
SECTION B - B



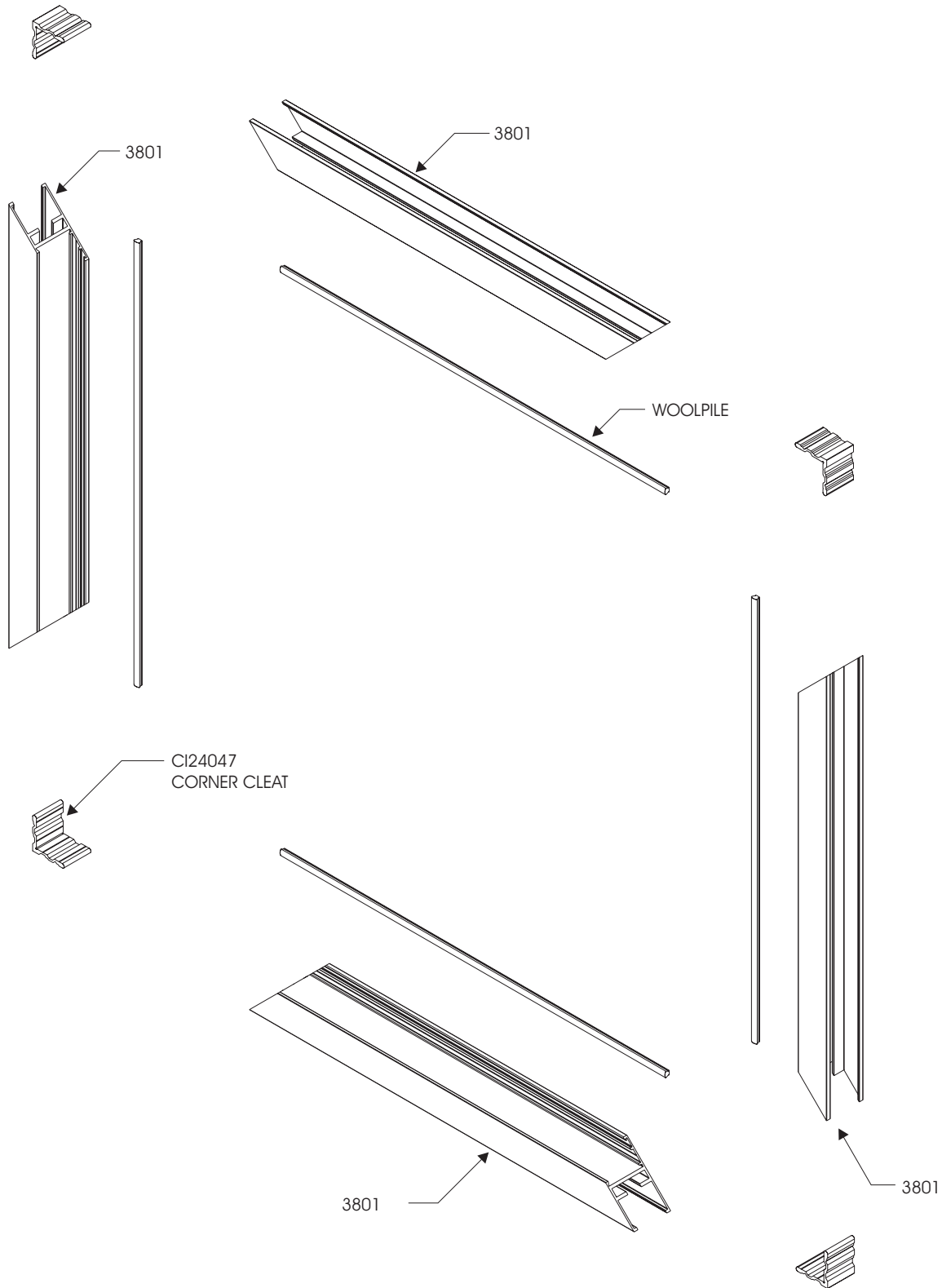
SECTION A - A



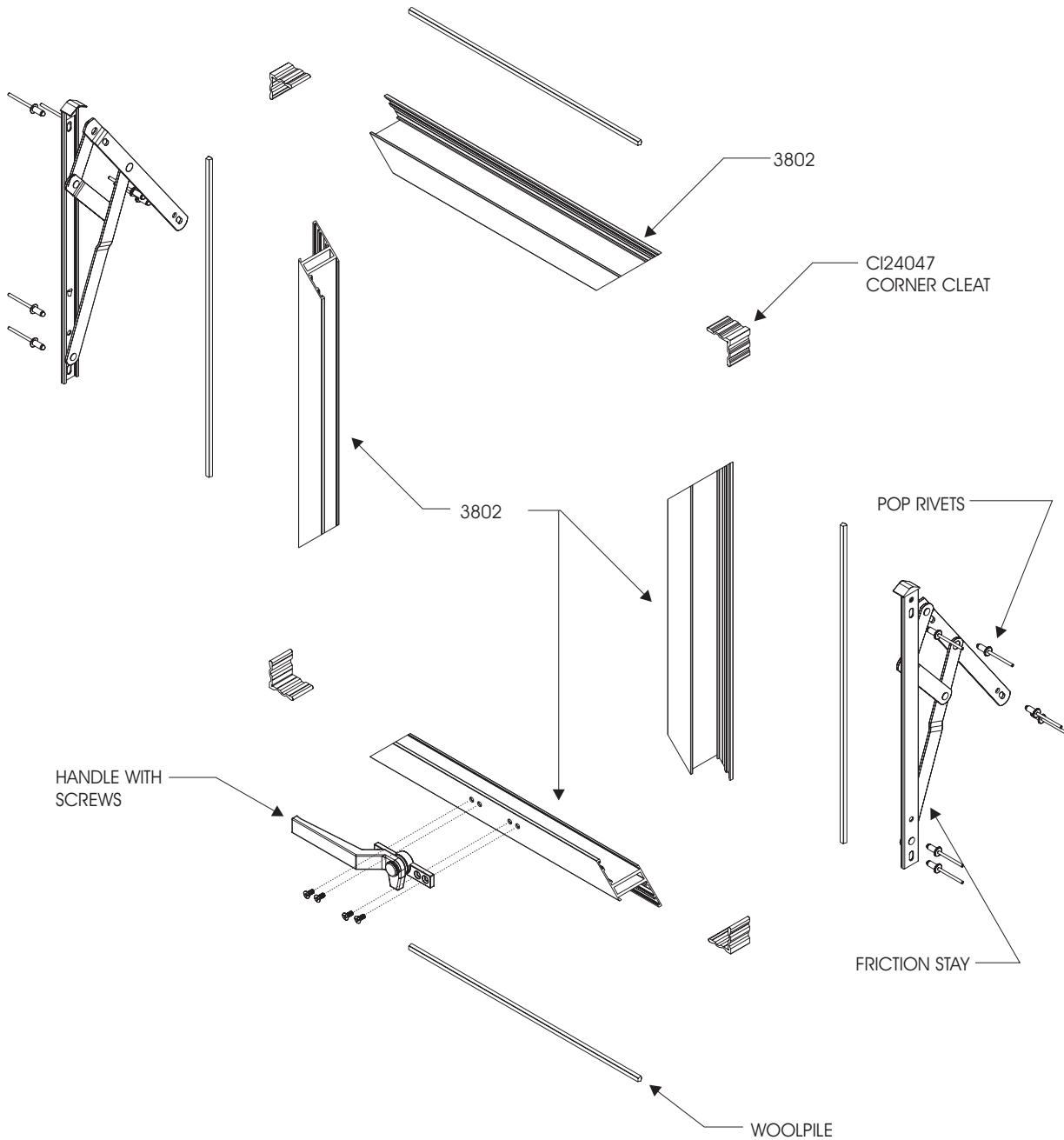
SECTION C - C



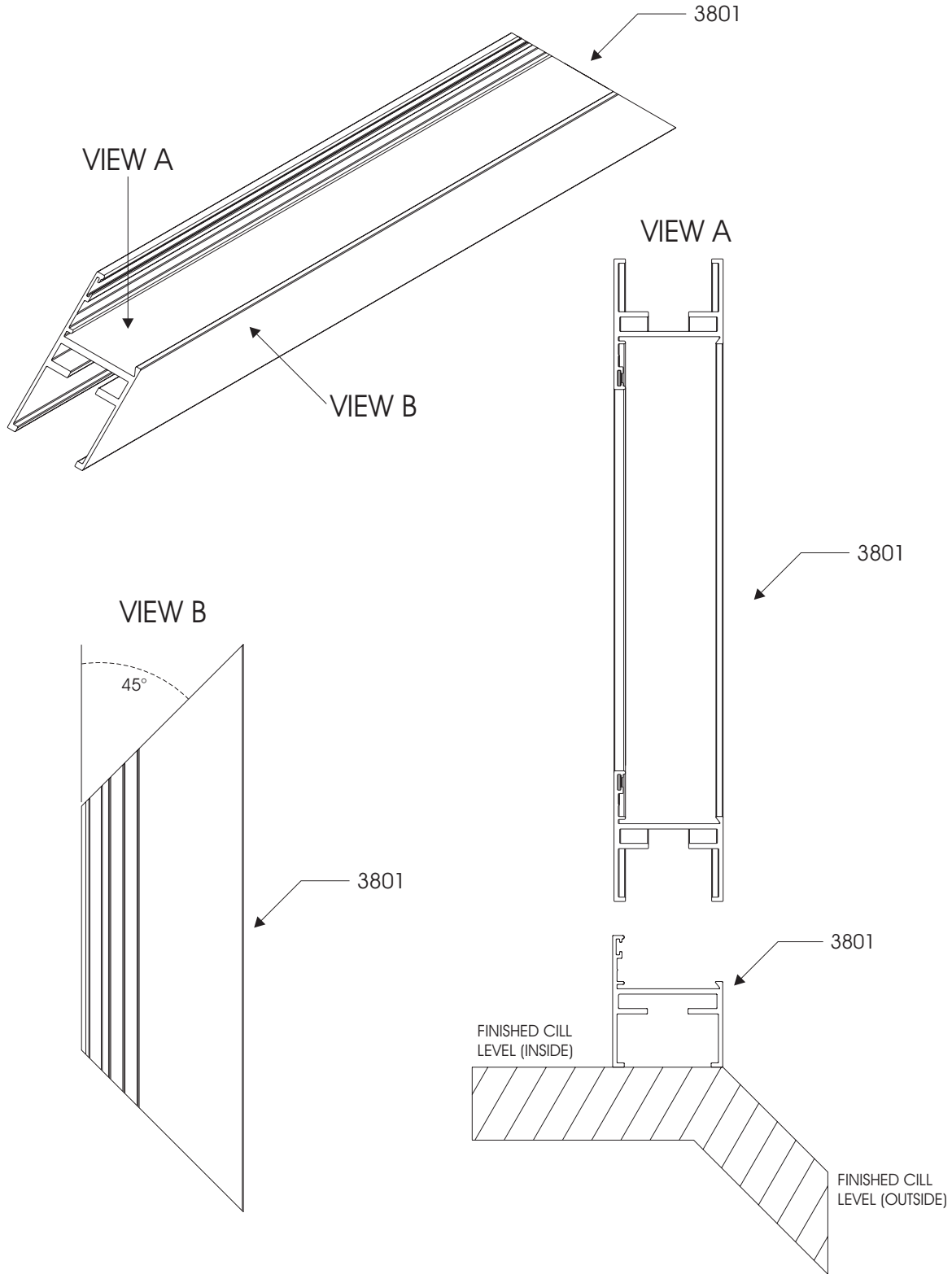
SHEERSASH 38 WINDOW SYSTEM OUTER FRAME COMPONENT ASSEMBLY DETAIL



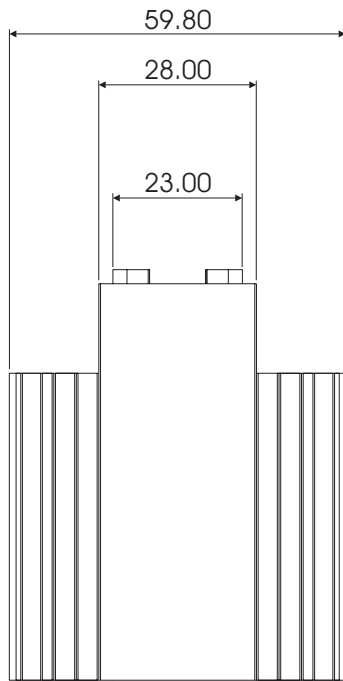
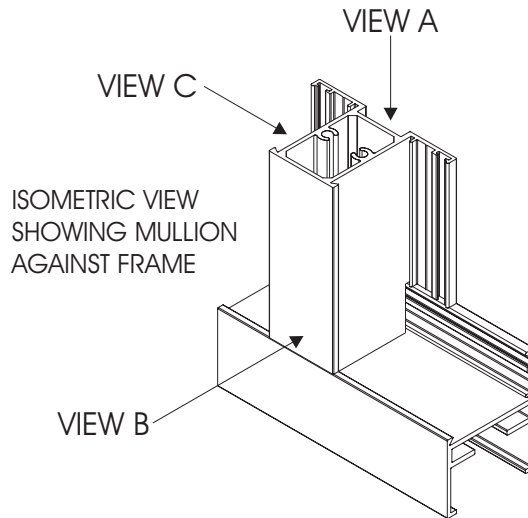
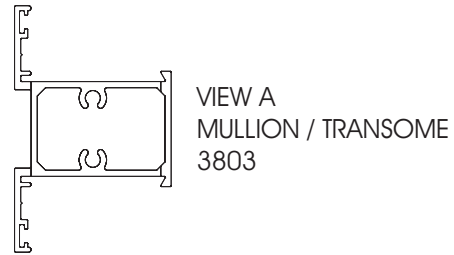
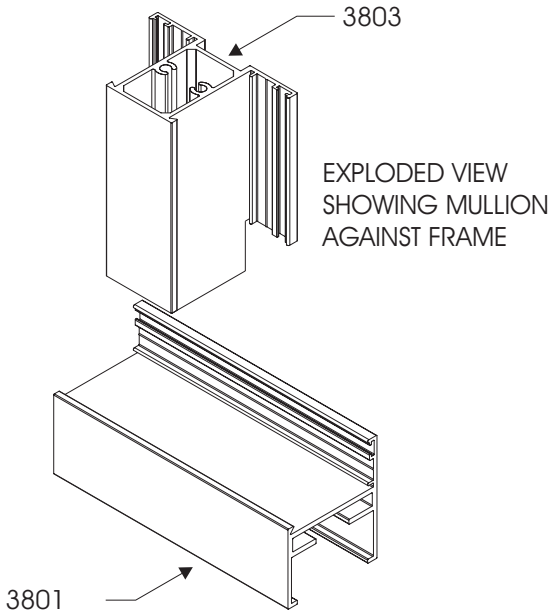
SHEERSASH 38 WINDOW SYSTEM SASH FRAME COMPONENT ASSEMBLY DETAIL



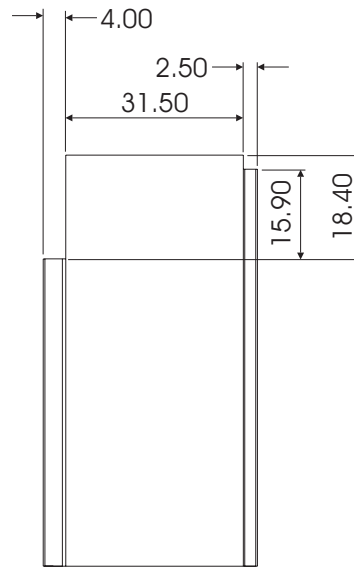
SHEERSASH 38 WINDOW SYSTEM
EQUAL LEG OUTER FRAME
SILL LEVEL & MACHINING DETAIL



SHEERSASH 38 WINDOW SYSTEM
 MULLION / TRANSOME MACHINING
 DETAIL FOR END MILLING
 ON EQUAL LEG OUTER FRAME

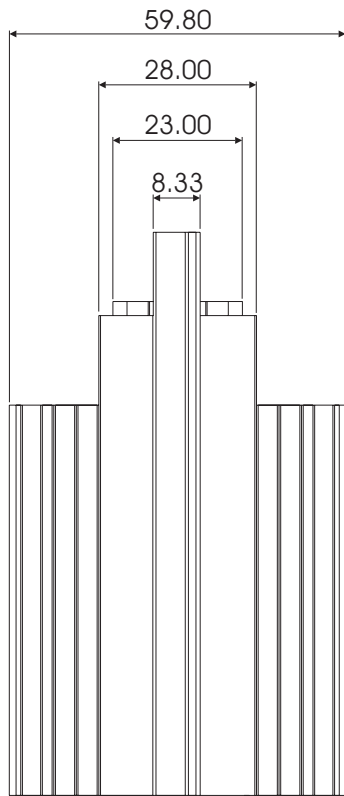
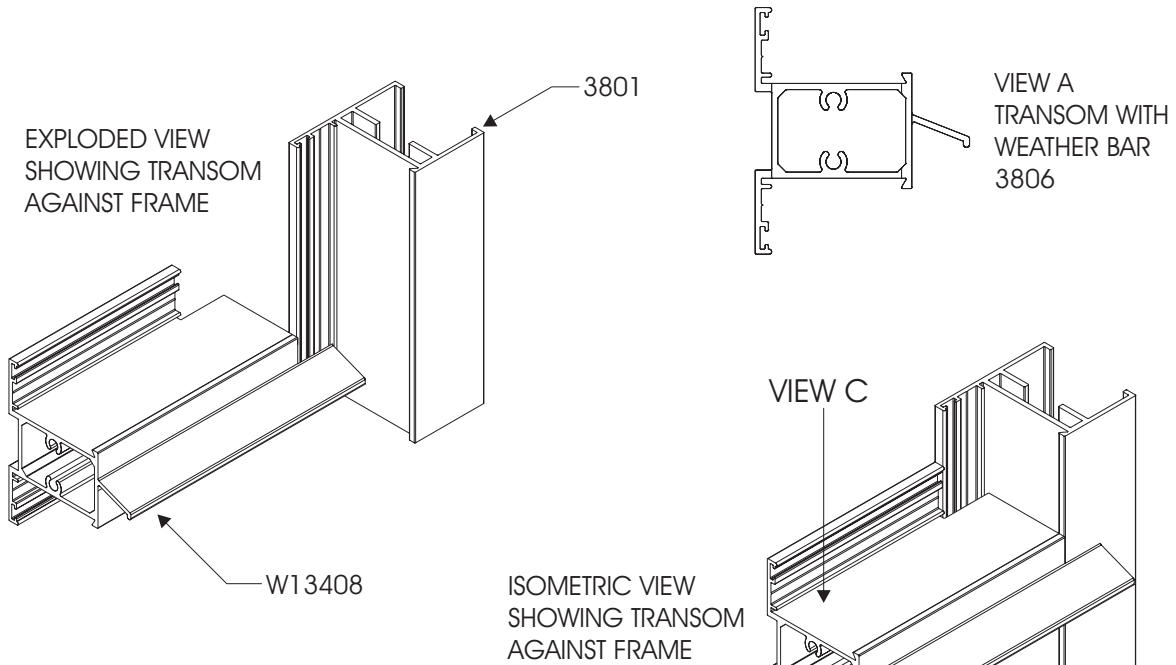


VIEW B

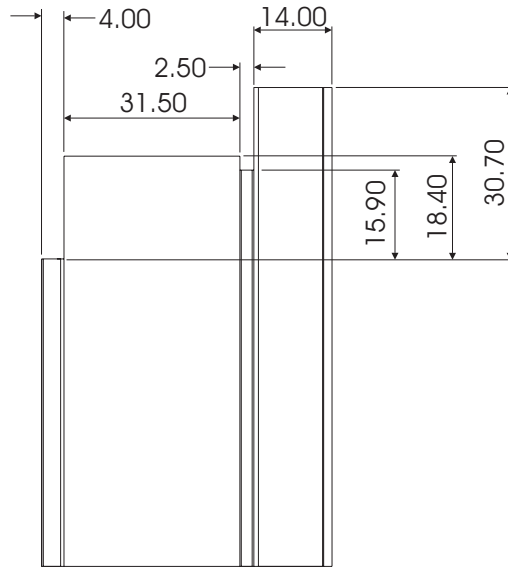


VIEW C

SHEERSASH 38 WINDOW SYSTEM
 TRANSOM WITH WEATHER BAR
 MACHINING DETAIL FOR END MILLING
 ON EQUAL LEG OUTER FRAME

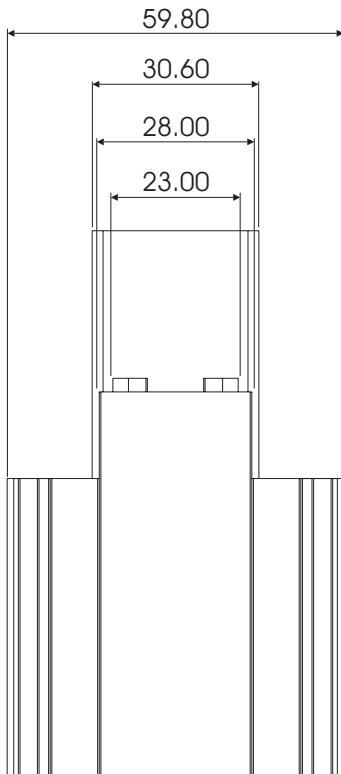
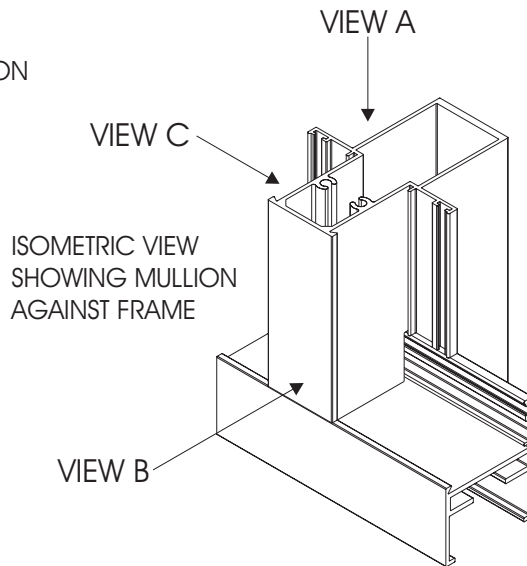
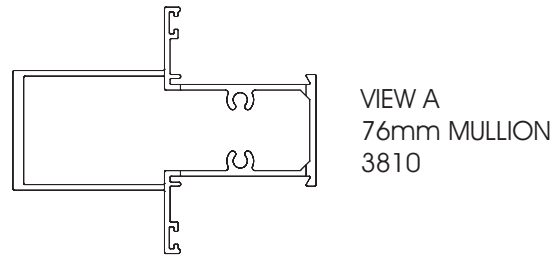
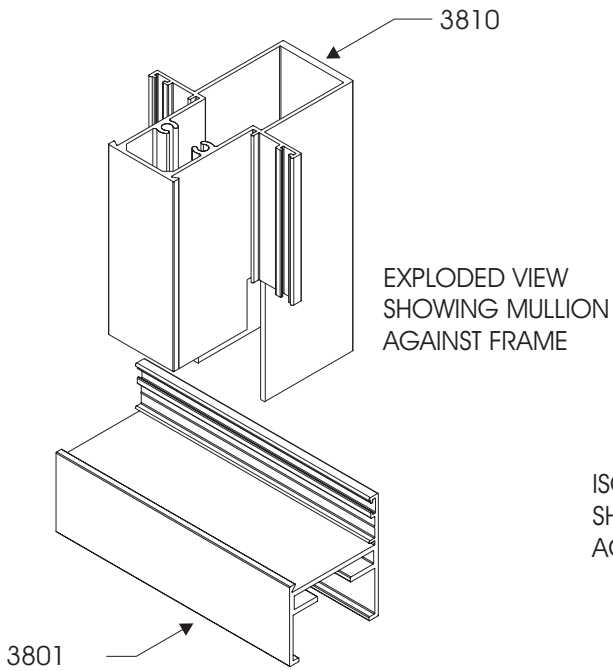


VIEW B

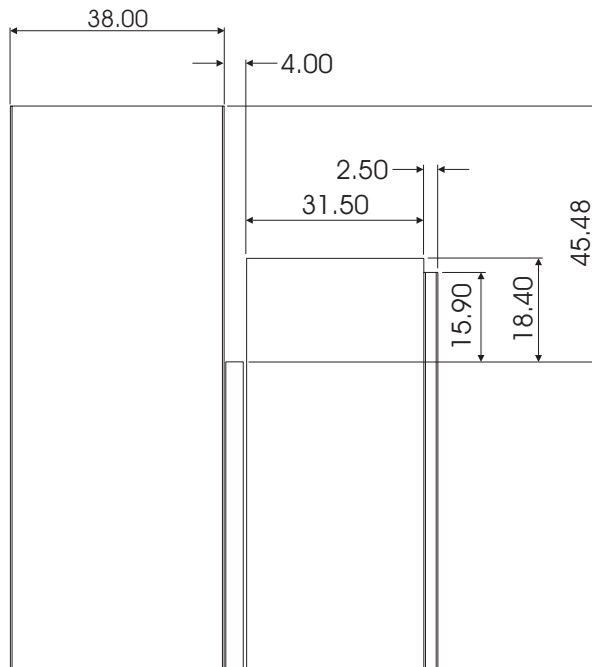


VIEW C

SHEERSASH 38 WINDOW SYSTEM
 76mm MULLION MACHINING DETAIL
 FOR END MILLING
 ON EQUAL LEG OUTER FRAME

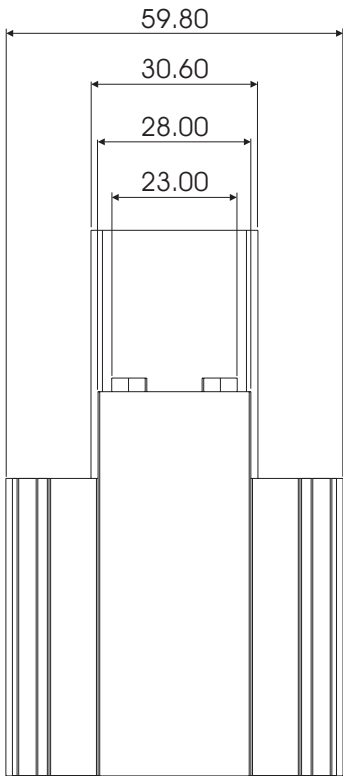
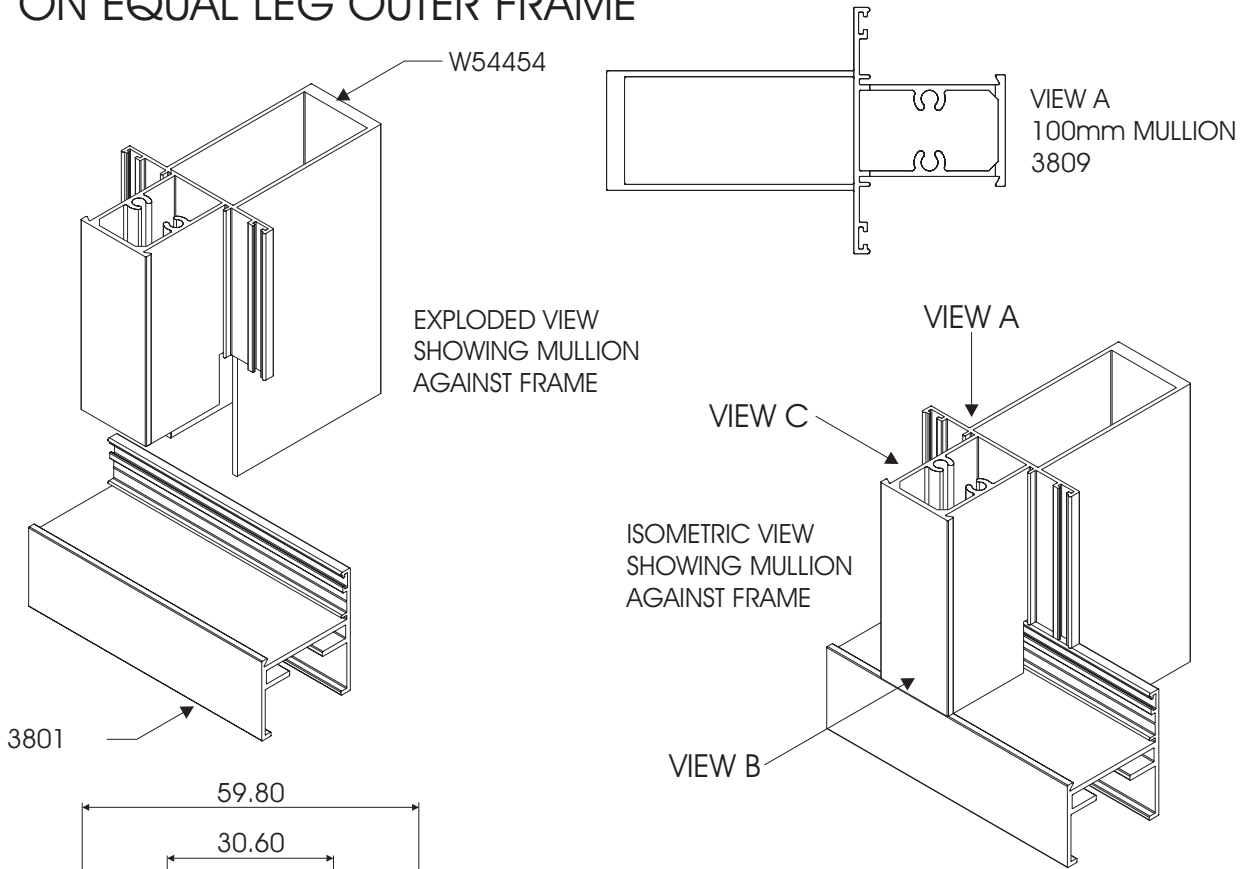


VIEW B

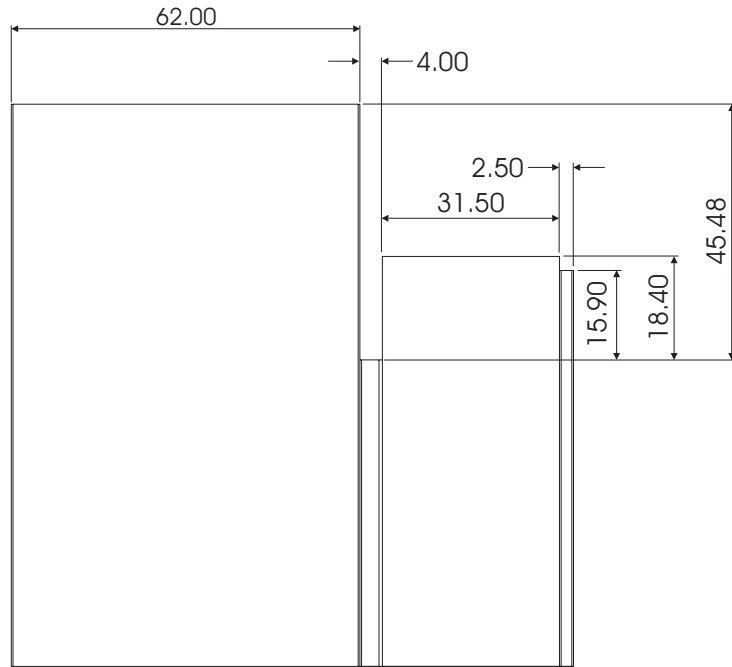


VIEW C

SHEERSASH 38 WINDOW SYSTEM
 100mm MULLION MACHINING
 DETAIL FOR END MILLING
 ON EQUAL LEG OUTER FRAME

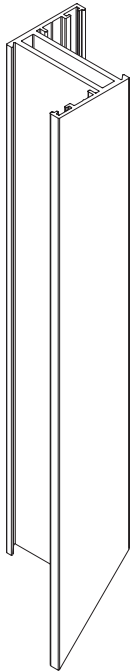


VIEW B

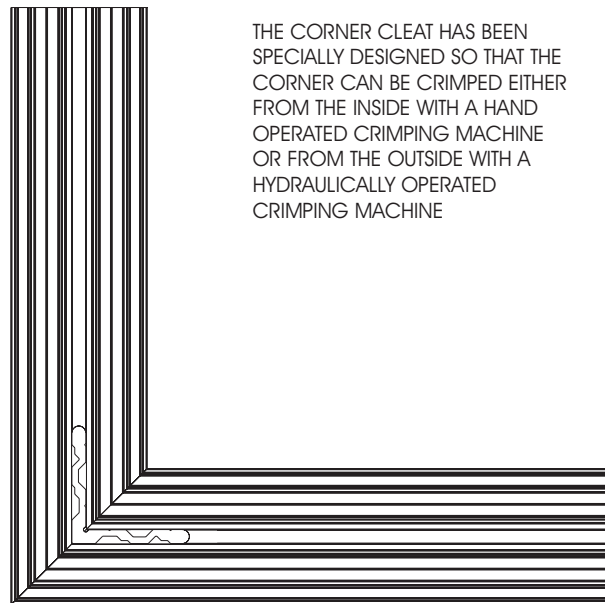
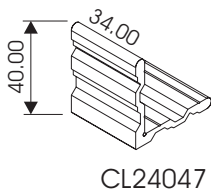
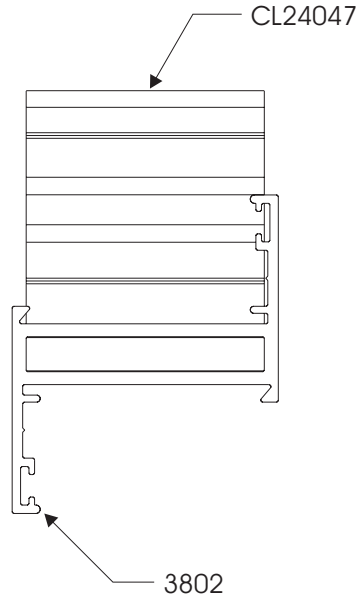
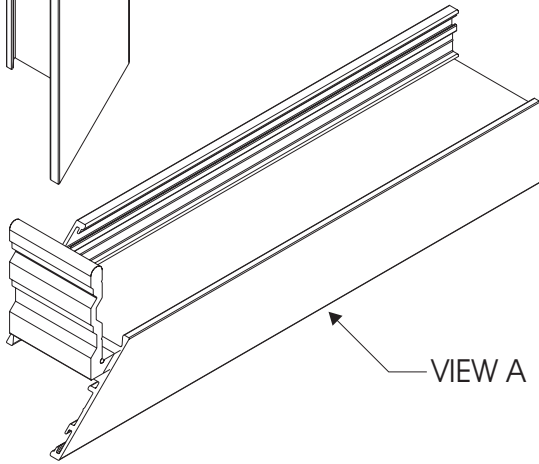


VIEW C

SHEERSASH 38 WINDOW SYSTEM CORNER CLEAT ASSEMBLY DETAIL FOR TUBULAR SASH



NOTE:
ALL JOINTS MUST BE SEALED WITH
SMALL JOINT SEALANT. FINPILE
MUST BE FITTED TO SASH AND
CORRESPONDING SURFACES OF
FRAME BEFORE CRIMPING (NOT
TO AREAS TO BE GLAZED)



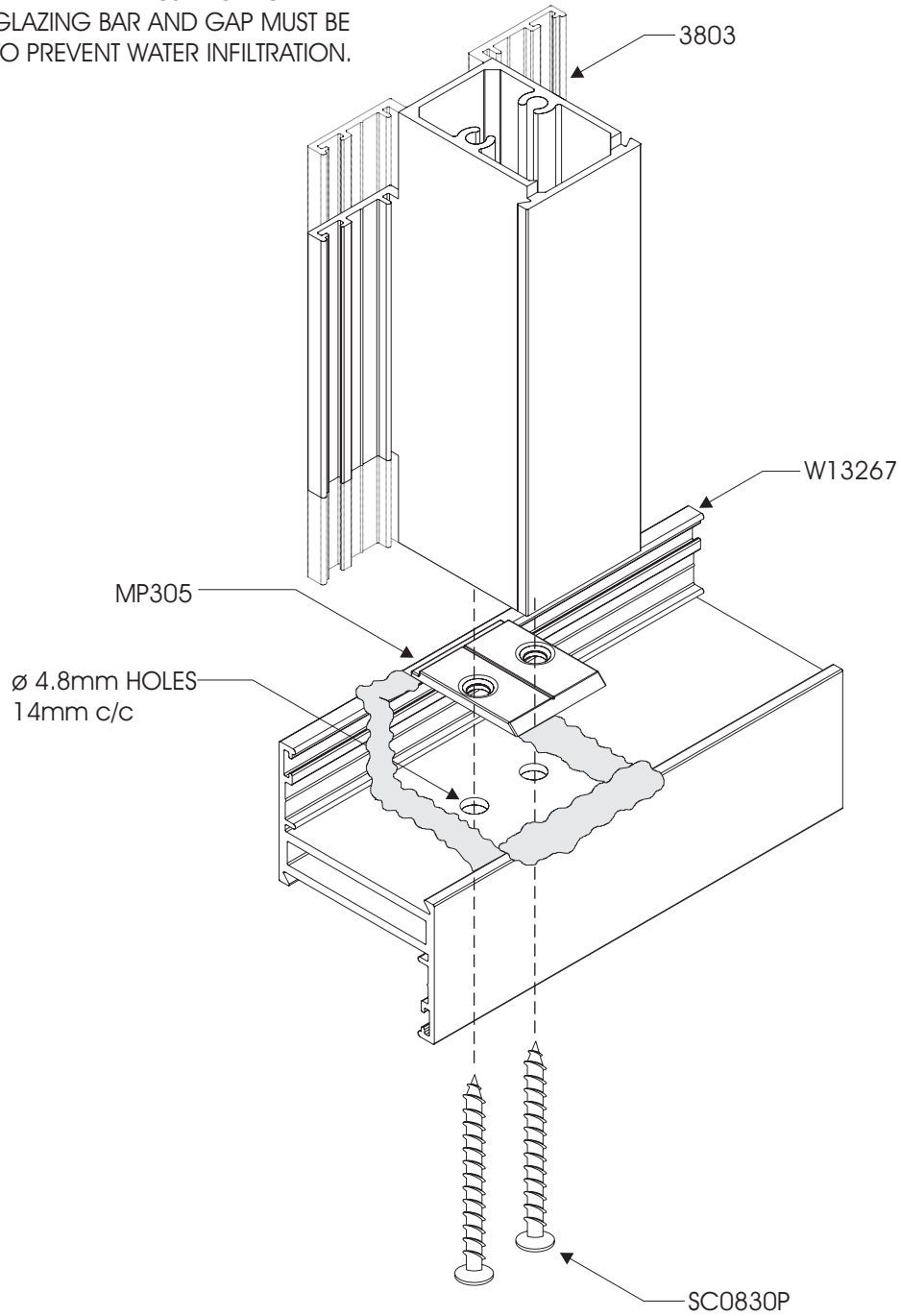
THE CORNER CLEAT HAS BEEN
SPECIALLY DESIGNED SO THAT THE
CORNER CAN BE CRIMPED EITHER
FROM THE INSIDE WITH A HAND
OPERATED CRIMPING MACHINE
OR FROM THE OUTSIDE WITH A
HYDRAULICALLY OPERATED
CRIMPING MACHINE

VIEW A

SHEERSASH 38 WINDOW SYSTEM GLAZING BAR FRAME JOINT ASSEMBLY DETAIL



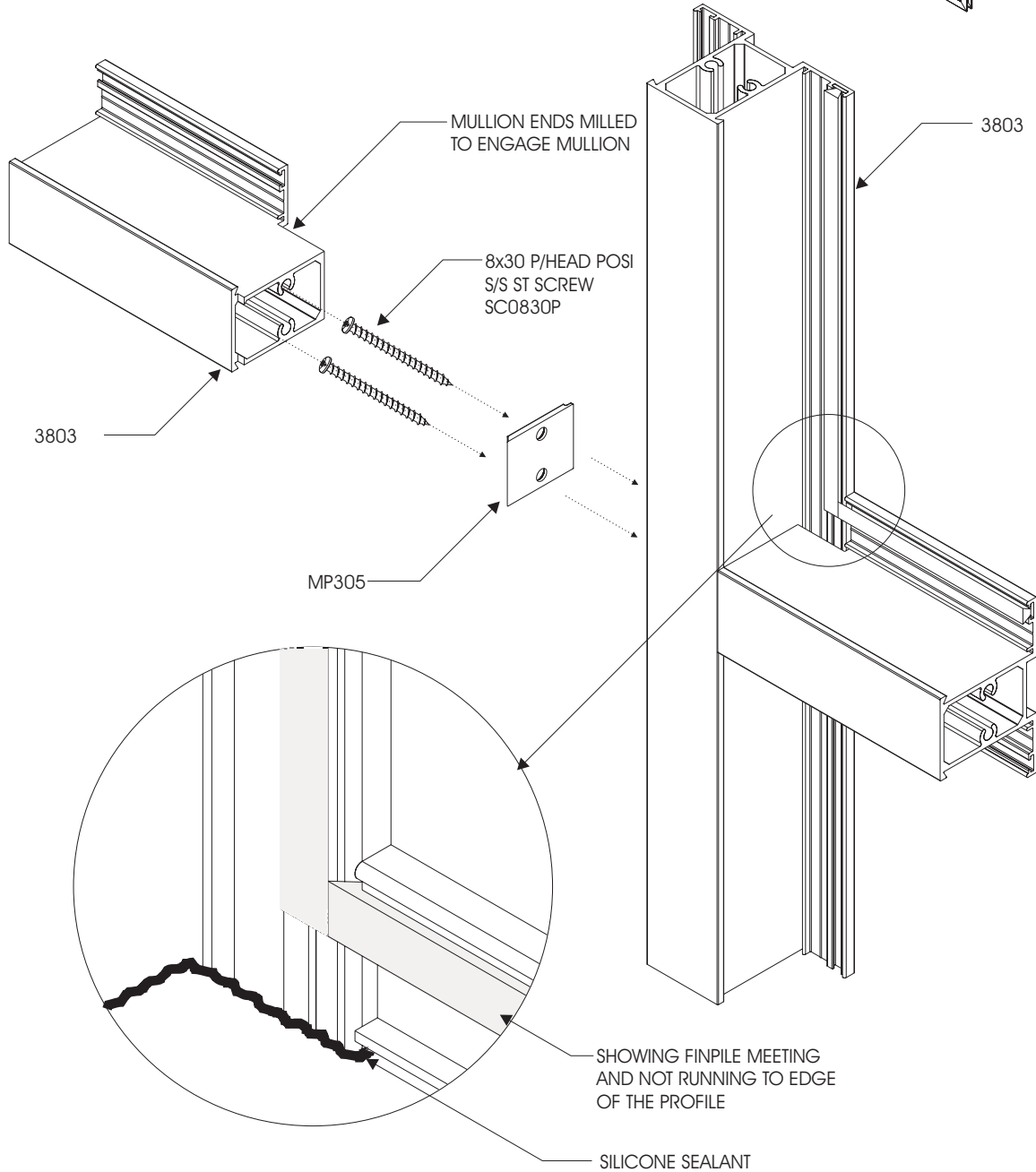
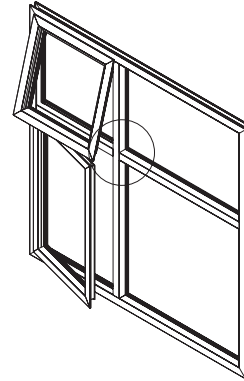
NOTE: ALL JOINTS MUST BE SEALED WITH SMALL JOINT SEALANT. FINPILE MUST BE FITTED PRIOR TO ASSEMBLY IF SASH IS TO BE FITTED INTO FRAME. FINPLIE MUST NOT RUN BEHIND GLAZING BAR AND GAP MUST BE SEALED TO PREVENT WATER INFILTRATION.



SHEERSASH 38 WINDOW SYSTEM CROSS JOINT ASSEMBLY DETAIL



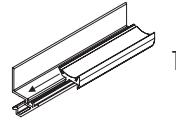
NOTE: ALL JOINTS MUST BE SEALED WITH SMALL JOINT SEALANT. FINPILE MUST BE FITTED PRIOR TO ASSEMBLY IF SASH IS TO BE FITTED INTO FRAME. FINPILE MUST NOT RUN BEHIND GLAZING BAR AND GAP MUST BE SEALED TO PREVENT WATER INFILTRATION.



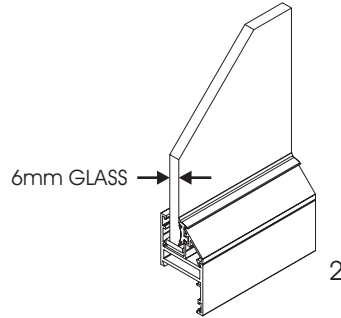
SHEERSASH 38 WINDOW SYSTEM GLAZING PROCEDURE



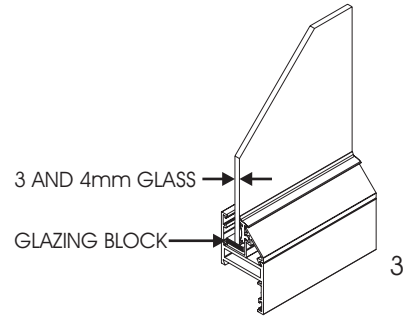
Insert the pull-in vinyl gasket into glazing beads by sliding or pressing it into the groove (1). Before cutting gasket, ensure that it has not stretched and cut 6mm longer so that corners are in compression at all times.



Position bottom glazing bead in glazing bead rebate (2).



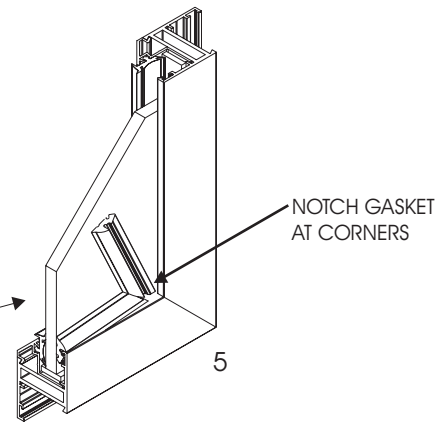
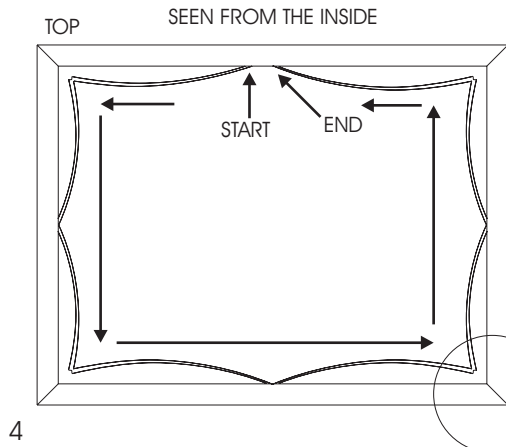
Place glass on glazing blocks (3).



Insert top and then side glazing beads ensuring that they are in correctly.

Starting from top centre, insert roll in gasket (4) without stretching it (5). Stop 150mm from corner and partly cut gasket 6mm longer than the edge of the vertical bead. Insert gasket at corner and then roll in remaining 150mm. Repeat this on the other sides. Where gasket ends meet, cut gasket 6mm longer. Insert cut ends first and complete.

ENSURE GASKETS ARE NOT STRETCHED AT ANY STAGE



GLAZING

1. SELECTION OF GLAZING METHODS

1.1 SETTING AND LOCATION BLOCKS

Glass-to-metal contact must be avoided at all times by using setting and location blocks having a hardness of 50° to 90° shore A durometer. Use only blocks made of Neoprene, EPDM, Silicone or other elastomeric material.

Setting blocks are to have a minimum thickness of 3mm and must be at least 27mm in length per square metre of glass area.

In the event of laminated glass and/or sealed insulated glass units drainage is to be provided to prevent the glass edge to be submerged. Two or more 7mm diameter holes or 5mm x 9mm slotted holes, or larger, are to be equally spaced in the sill section of sash or frame to allow for such ventilation/drainage.

The position of the setting and location blocks is illustrated in Figure 2.

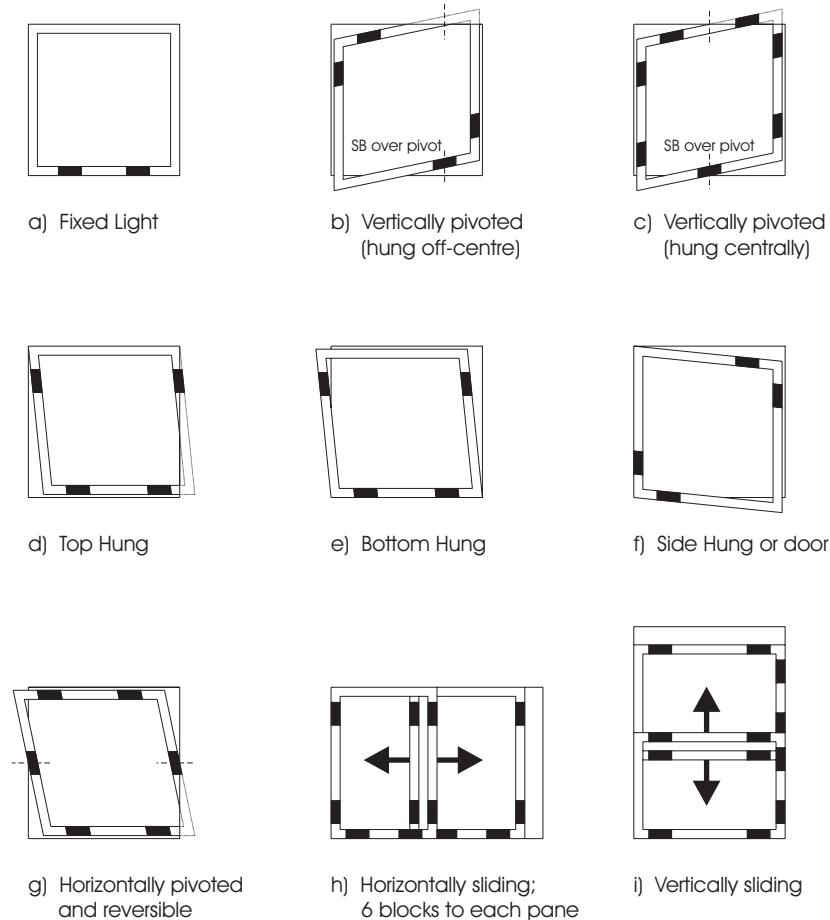
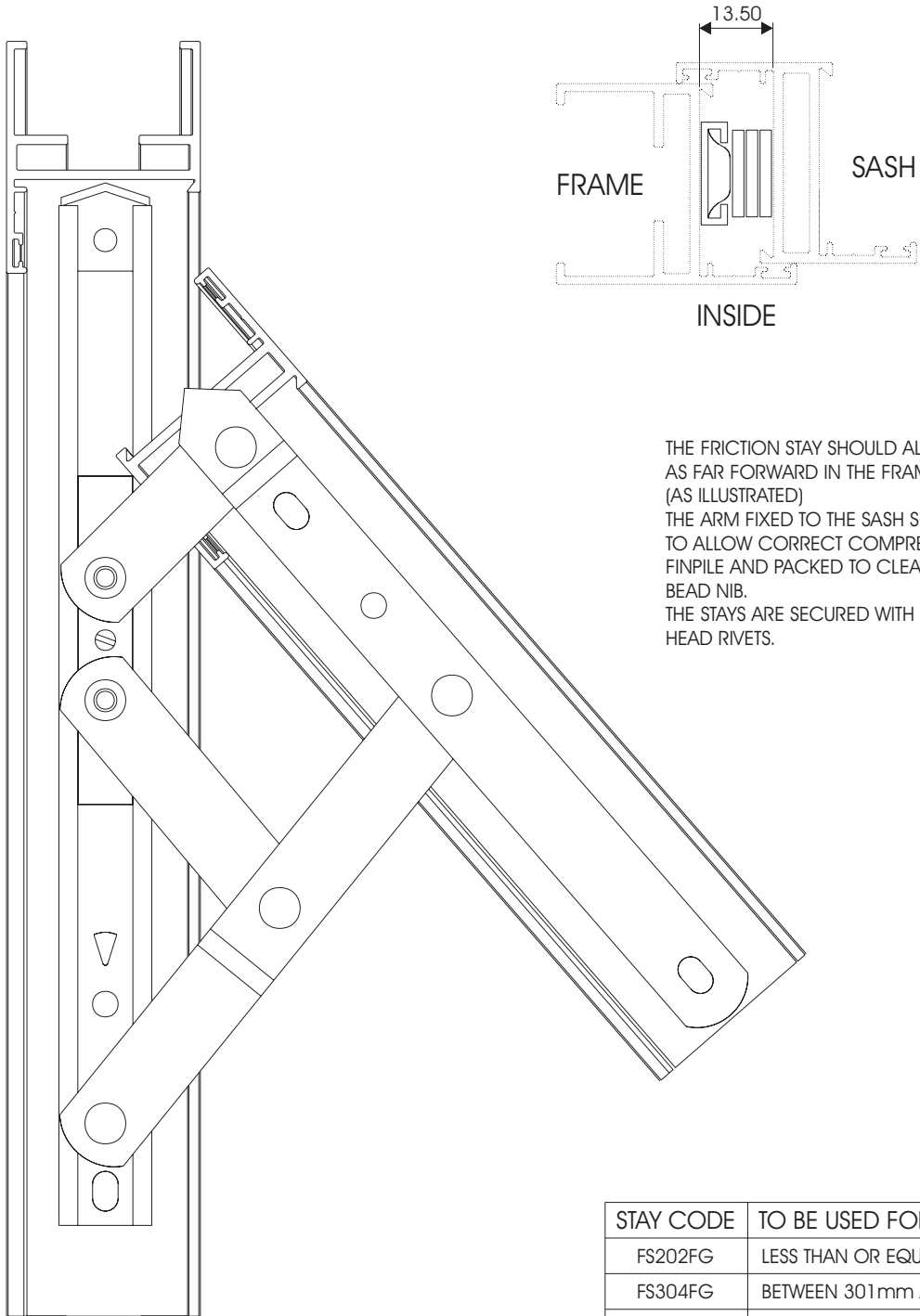


FIGURE 2 - POSITION OF SETTING AND LOCATION BLOCKS

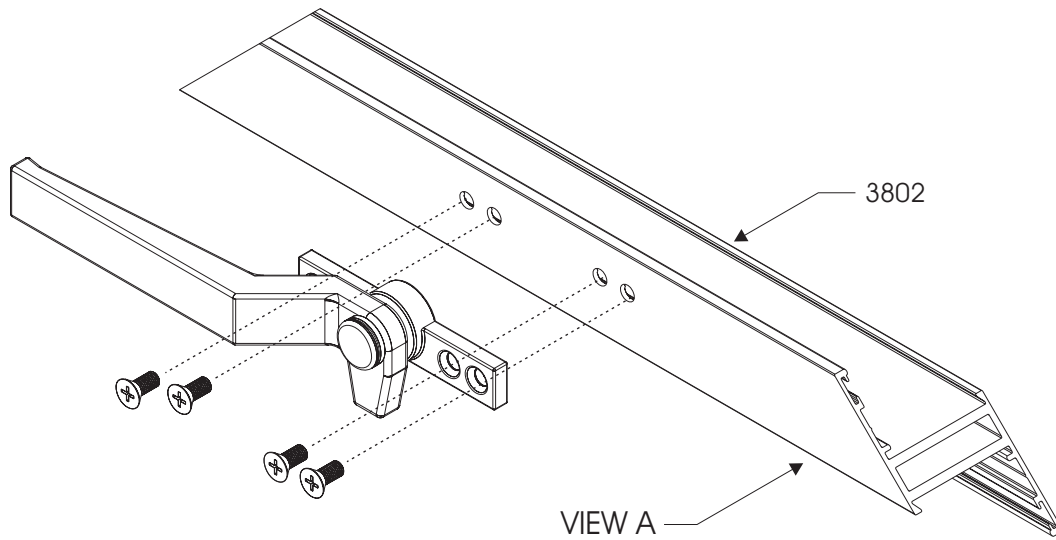
SHEERSASH 38 WINDOW SYSTEM FRICTION STAY ASSEMBLY DETAIL



THE FRICTION STAY SHOULD ALWAYS BE FITTED AS FAR FORWARD IN THE FRAME AS POSSIBLE. (AS ILLUSTRATED)
 THE ARM FIXED TO THE SASH SHOULD BE FITTED TO ALLOW CORRECT COMPRESSION OF THE FINPILE AND PACKED TO CLEAR GLAZING BEAD NIB.
 THE STAYS ARE SECURED WITH 4.8 x 10 DOME HEAD RIVETS.

STAY CODE	TO BE USED FOR SASH SIZE
FS202FG	LESS THAN OR EQUAL TO 300mm
FS304FG	BETWEEN 301mm AND 450mm
FS406FG	BETWEEN 451mm AND 600mm
FS508FG	BETWEEN 601mm AND 750mm
FS600FG	GREATER THAN 750mm

SHEERSASH 38 WINDOW SYSTEM HANDLE ASSEMBLY DETAIL



NO 8 x 10 COUNTERSUNK SELF-TAPPING
FLAT END SCREWS

