# NTRODOCTION

### **SPECIFICATION**

The Technal GXi horizontal sliding window will be fabricated in accordance with this fabrication manual and the requirements of BS4873 and where applicable other trade standards and codes of practice.

### Scope

The product range can be supplied from a common range of sections with a flush 9mm polyamide thermal break to create a simple 2-leaf bi-parting to multi-panel configurations on two or three tracks, with concealed drainage or face drained through the cill.

GXi is fully compatible with the Technal FXi52 casement window suite to form composite configurations.

### **Finishes**

The following finishes are available:

- Standard mill finish rolled together.
- Anodised in accordance with BS1615 or BS3987, natural self colour or Anolock colours.
- Stoved polyester powder coated in accordance with BS6496, available in a large range of single or dual colour options.

### Size Limitations

Size limitations are determined by windloading, profile inertia values and roller weight limitations (see charts).

Maximum Leaf Sizes: 2.0 x 2.5 (w x h) Height / Width not to exceed ratio 3:1

Track	Roller	Max Weight
Aluminium GX1130 OR Steel GX1132	GX1810 Non - adjustable roller OR GX1811 Adjustable roller	200 Kg per Leaf
Polyamide GX1702	GX1810 Non - adjustable roller OR GX1811 Adjustable roller	120 Kg per Leaf

### **Materials**

- Aluminium pofiles are extruded from aluminium alloy 6063 T6 to BS1474 or 6060 R20.
- Polyamide thermal breaks are extruded from PA6-6 (0.25 FV).
- Screws and components shall be either stainless steel, cadmium plated steel or other corrosion resistant materials.
- Gaskets are EPDM SH 60 75.

### Construction

Outer frames are mitre jointed using an epoxy bonded and mechanically crimped cleat that expands to the exact dimensions of the hollow ensuring a flush mitre joint. The leaves are square cut, silicone sealed with the stiles bolted to the rails.

All machining operations can be performed using Perfopack punch tooling, milling templates or drilling jigs. The GXi fully drained system requires a fully adjustable power crimper to crimp the corner cleats.

### **SPECIFICATION**

### **Performance**

The Technal GXi horizontal sliding window has been tested in accordance with BS6375 Parts I and II achieving the following results:

	Sizes	Air Permeability	Watertightness	Wind Pressure
GXi 2 Leaves	1.41 x 1.42	A*3	E*7A	V*C4
GXi 2 Leaves + Sub Cill	2.19 x 2.16	A*3	E*8A	V*B4

### **Thermal Performance**

	_				
W/H		U Value Glass (centre pane)			
	1.4		1.3		1.2
1.85 x 2.18	2.3		2.2		2.1
1.85 x 2.50	2.2		2.2		2.1
2.80 x 2.25	2.1		2.0		1.9

### Security

For maximum security, to prevent the removal of glass from the outside all leaves are glazed with a wrap-around gasket and the system uses comprehensive locking systems upto 4-point hook locks.

### **Tolerances**

Tolerances in fabrication are to be in accordance with BS4873 and recommendations made in this Technal fabrication manual.

### Installation

Installation will be managed by suitably approved Technal fabricators and strictly in accordance with this fabrication manual.

### Glazing

The leaves are dry glazed with flush wrap-around EPDM gaskets designed to absorb the varying tolerances of paint and glass thickness. The system accommodates glazing from 20mm - 26mm in accordance with the codes of practice BS6262 including Part 4 and Section N of the Building Regulations

### **Special Requirements**

Many projects require special consideration to meet architects / designers specification. If in doubt, please consult our Technical Advisory Service.

### Quality

Technal operates a quality control system assessed to the European Quality Standard reference BS EN ISO 9001 and is listed on the Lloyds register of quality service, certificate number 900377.

### **Further Information**

Further information concerning both our products and various aspects of our industry, have been incorporated into our Technical Control Sheets. These sheets cover items such as Design Wind Pressure, Industry Standards and Regulations, Performance Criteria etc.

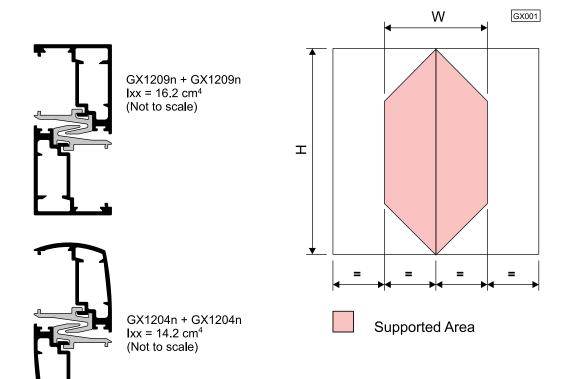
You can access or request copies of these via:

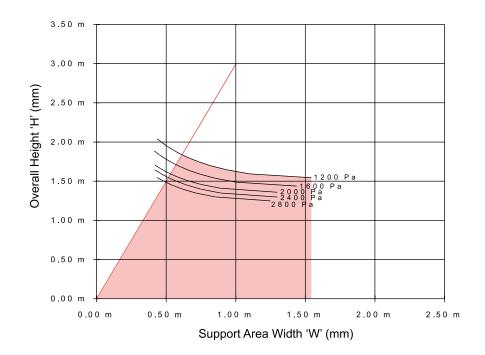
- The "Fabricators Area" of our web site at : www.technal-library.co.uk
- Requested by email to: technical@technal.hydro.com
- Through your Technal representative.

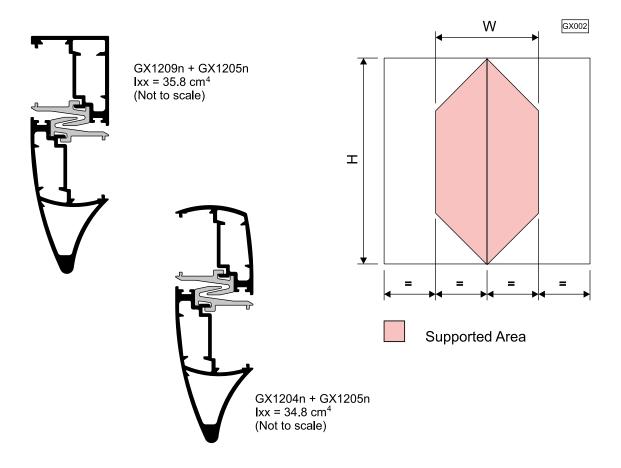
### **Further Enquiries**

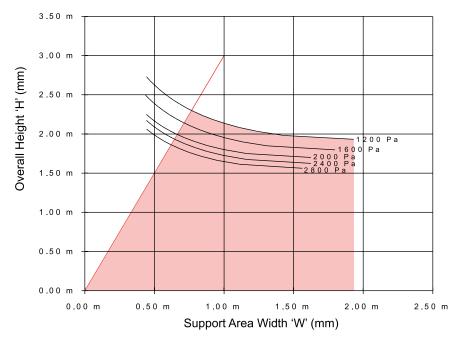
General enquires can be submitted via email to: info.technal@hydro.com.

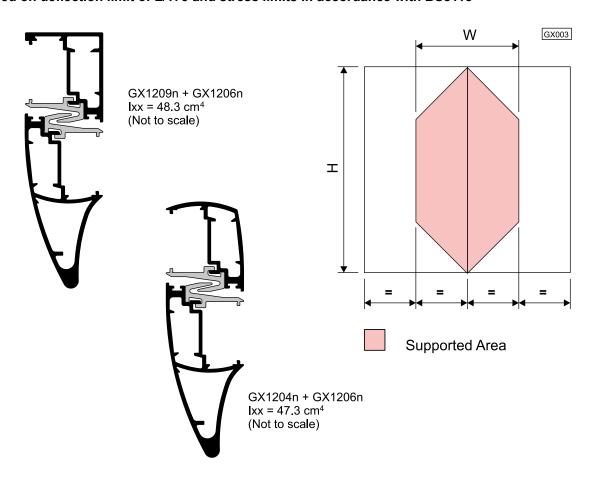
Technical enquires can be submitted via email to: technical@technal.hydro.com

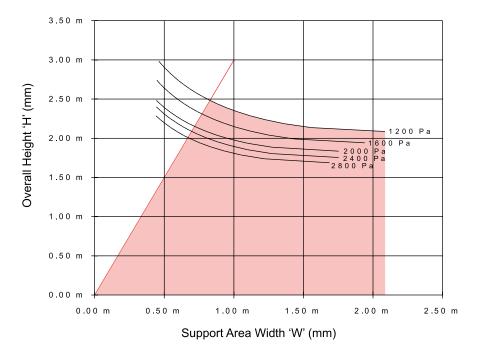


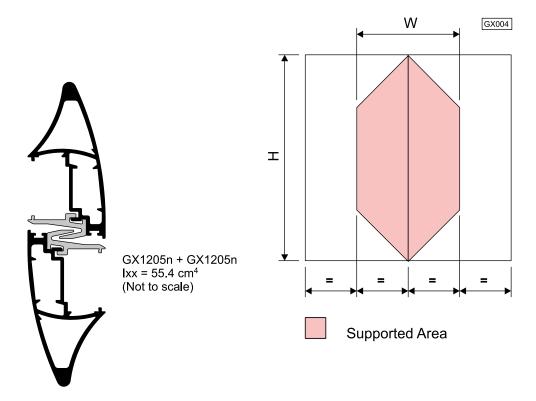


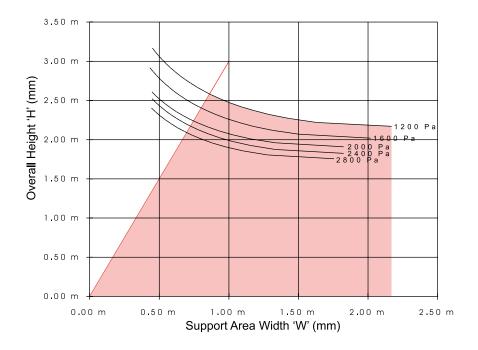


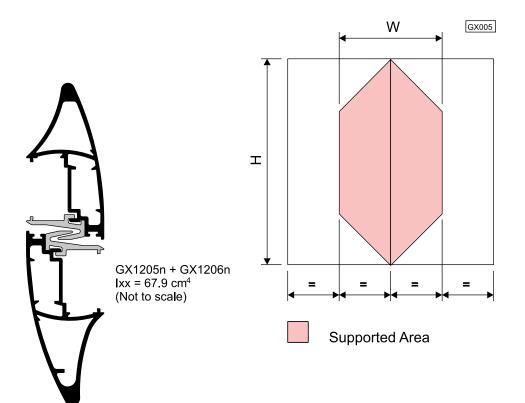


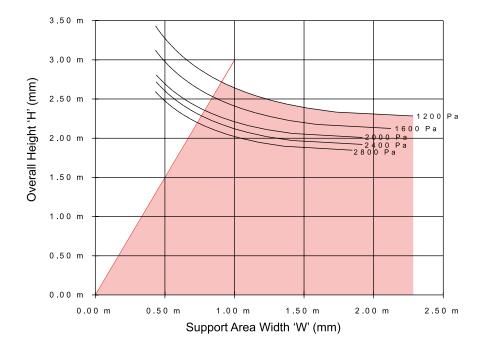


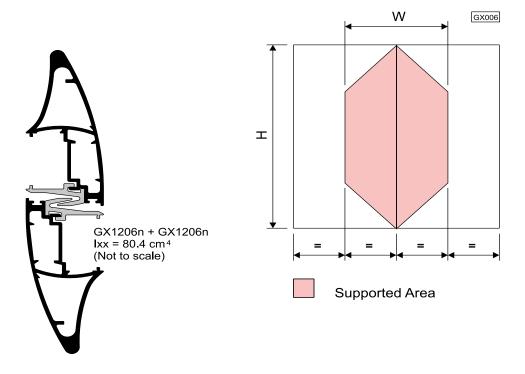


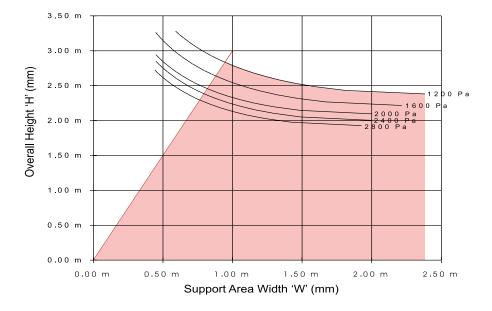


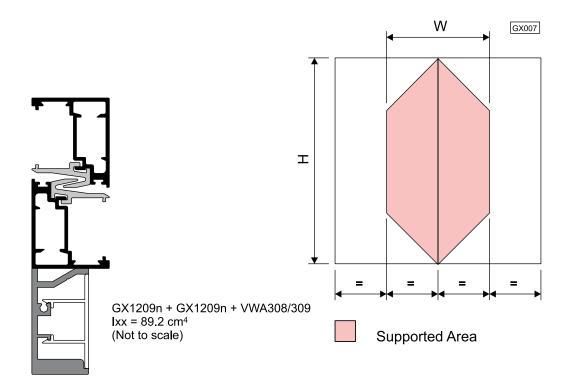


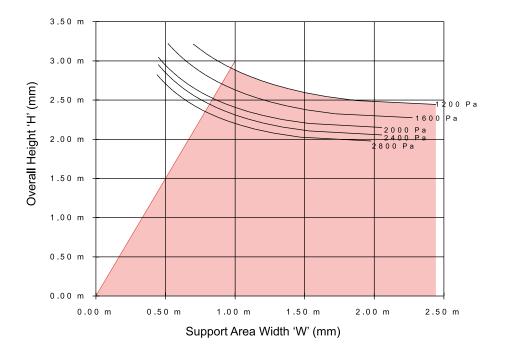








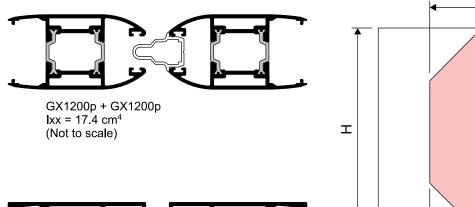


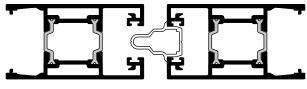


GX008

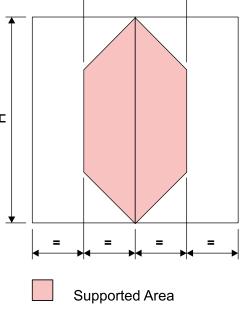
### MEETING STILE WIND LOAD CHART

Based on deflection limit of L/175 and stress limits in accordance with BS8118

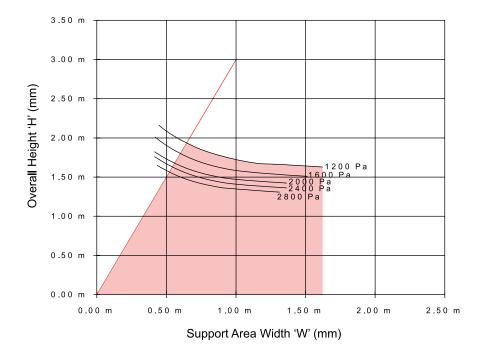


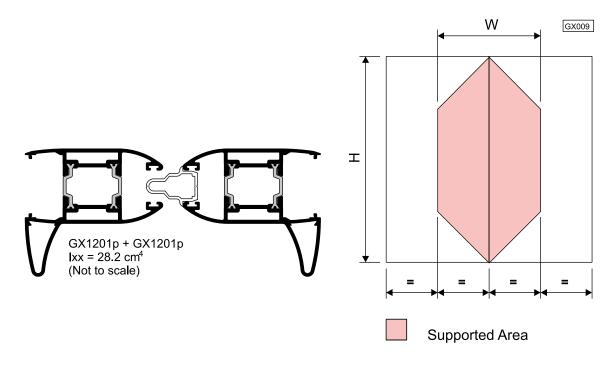


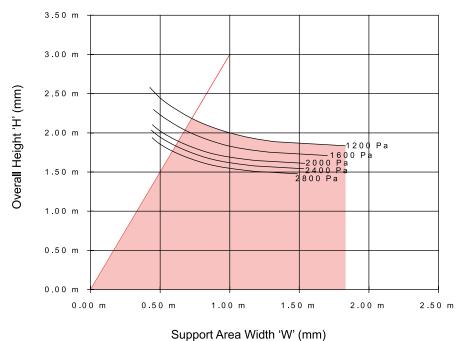
GX1208p + GX1208p Ixx = 16.1 cm<sup>4</sup> (Not to scale)

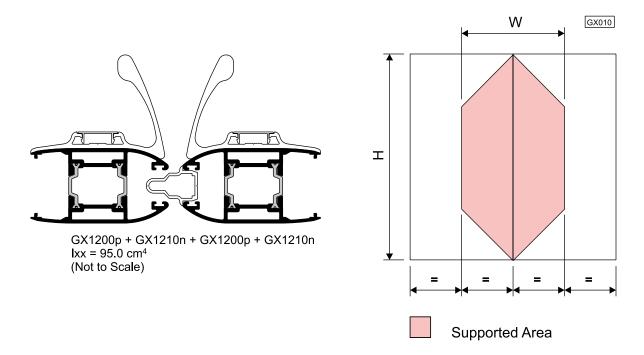


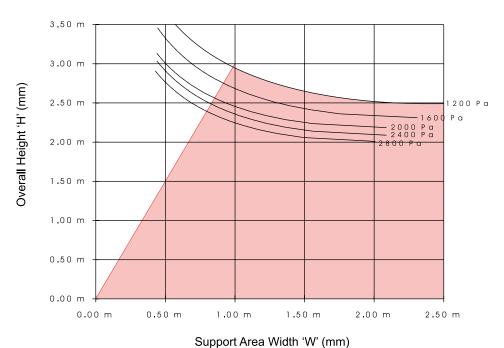
W

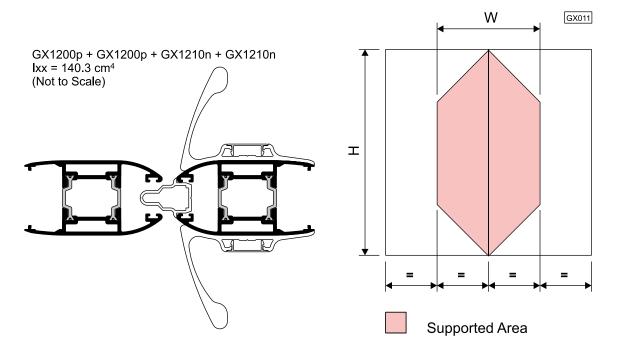


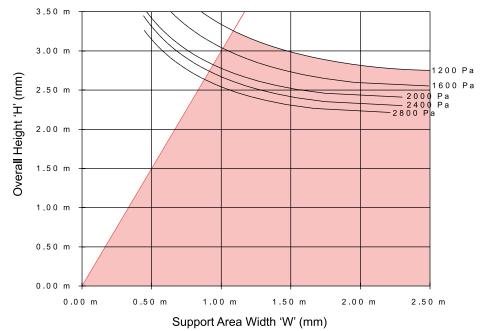




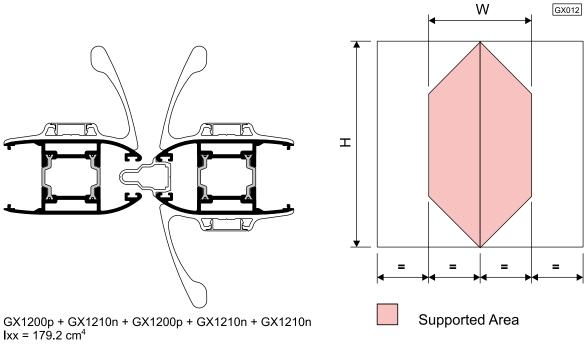




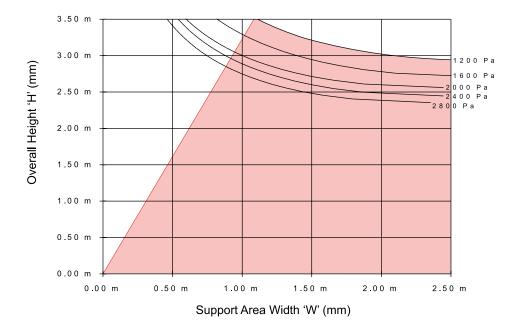


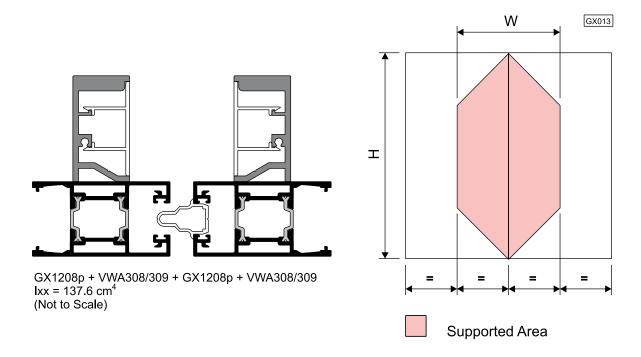


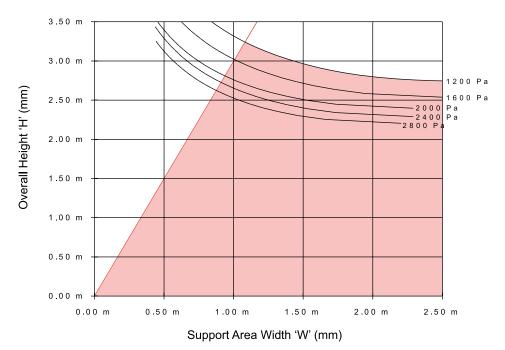
Based on deflection limit of L/175 and stress limits in accordance with BS8118



(Not to Scale)







### **INERTIA VALUES**

x y y	Ref.	lxx' (cm <sup>4</sup> )	lyy' (cm <sup>4</sup> )	Zxx' (cm <sup>3</sup> )	Zyy' (cm³)	$x \xrightarrow{y} x$	Ref.	lxx (cm
	GX1100p	18.00	12.5	6.20	3.6	(	GX1204n	7.1
	GX1101p	28.6	11.9	6.3	3.5		GX1205n	27.7
	GX1103p	30.3	14.3	6.6	4.4		GX1206n	40.2
	GX1104p	19.3	12.5	6.8	3.6		GX1207p	6.6
	GX1107p	15.6	12.3	5.2	3.5	2 2	GX1208p	8.1
	GX1200p	8.7	14.2	4.4	3.7	<u></u>	GX1209n	6.4
	GX1201p	14.1	19.7	3.3	4.9	<u>L</u>	GX1210n	<b>15</b> .1
	GX1203p	6.9	18.9	4.2	4.8	L	VWA308	19.4
	GX1136n	1.1	3.4	0.6	1.0		GX1108p	95.2
	GX1109p	111.01	17.98	15.74	5.07		GX1110p	20.6

x	Ref.	lxx' (cm <sup>4</sup> )	lyy' (cm <sup>4</sup> )	Zxx' (cm <sup>3</sup> )	Zyy' (cm³)
( <u></u> <u>'</u> <u>'</u>	GX1204n	7.1	2.9	2.6	1.0
	GX1205n	27.7	4.9	6.5	1.9
	GX1206n	40.2	5.9	8.4	2.5
	GX1207p	6.6	14.3	4.1	3.8
r r	GX1208p	8.1	19.92	4.9	3.2
	GX1209n	6.4	3.3	2.3	1.1
L	GX1210n	15.1	13.5	4.6	2.7
1/	VWA308	19.4	3.9	5.7	1.9
	GX1108p	95.2	20.3	17.5	5.7
	GX1110p	20.6	20.0	6.8	5.1

1.080

## SCAN SHEETS

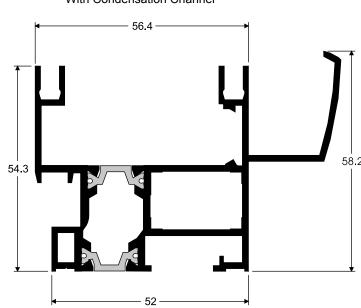
### **OUTER FRAMES**

**GX1100p**Closed Track Outer Frame

58.2

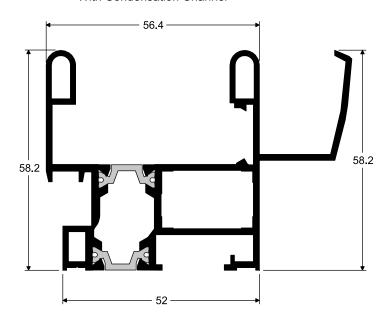
GX1101p

Open Track Outer Frame With Condensation Channel



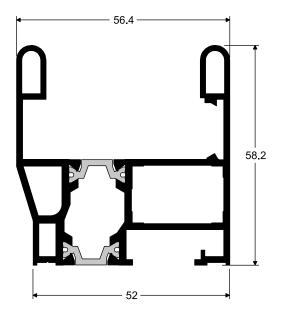
GX1103p

Closed Track Outer Frame With Condensation Channel

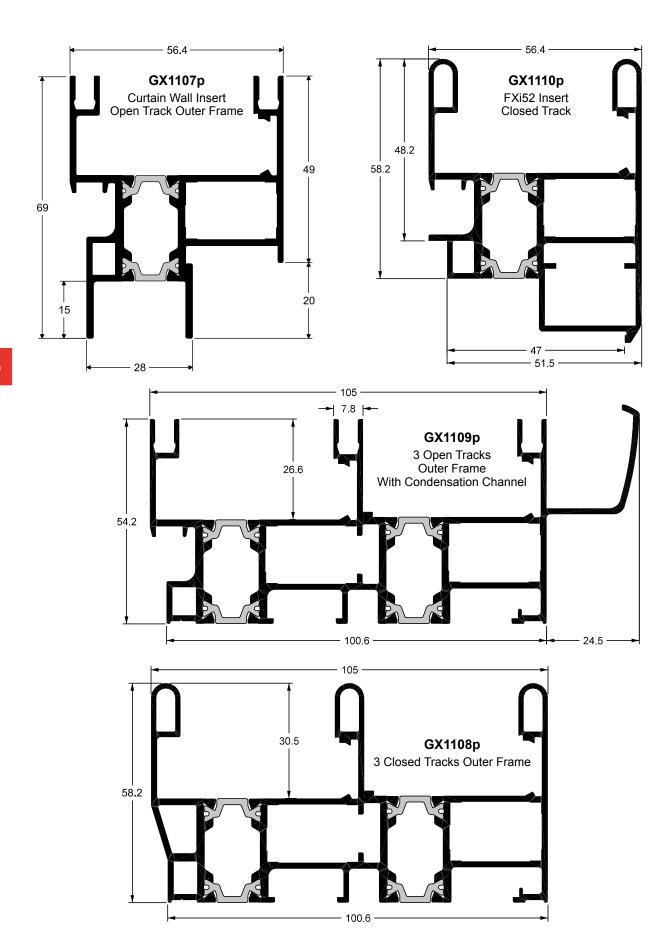


### GX1104p

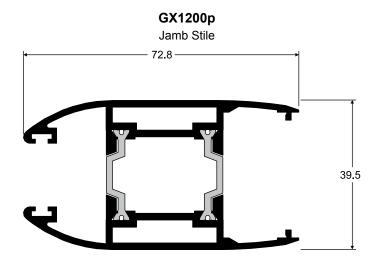
Closed Track Outer Frame (For Top and Jambs)



### **OUTER FRAMES**

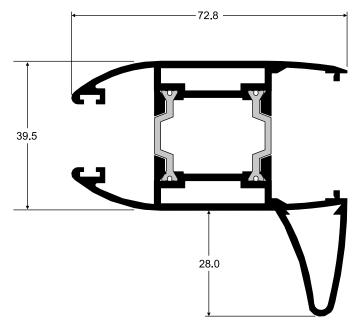


### **LEAF SECTIONS**



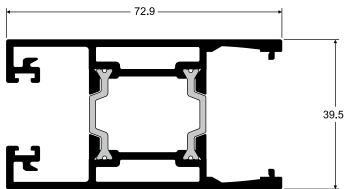
### GX1201p

Reinforced Jamb Stile



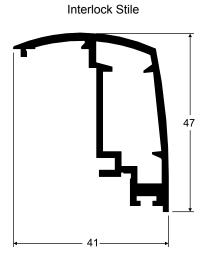
### GX1208p

Straight Jamb Stile

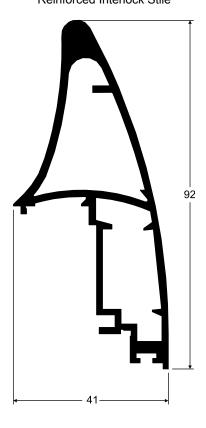


### **LEAF SECTIONS**

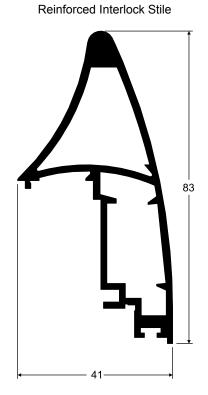
GX1204n



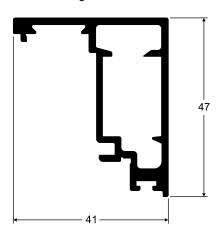
**GX1206n**Reinforced Interlock Stile



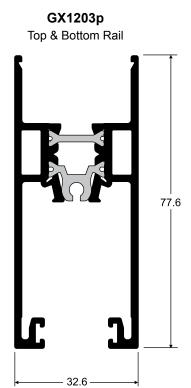
GX1205n



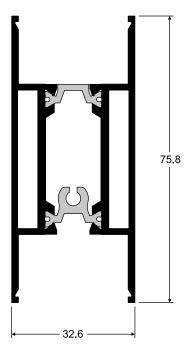
**GX1209n** Straight Interlock Stile



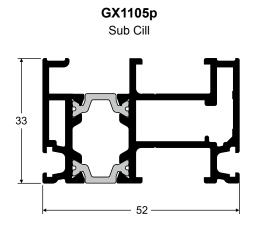
### **LEAF SECTIONS**



### GX1207p Mid Rail



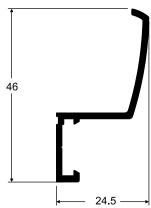
### **AUXILIARY SECTIONS**



GX1106n
Location Clip Profile
For Sub Cill

15.8

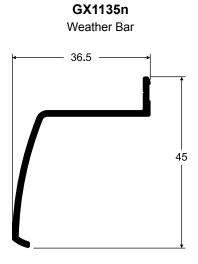
**GX1133n**Condensation Channel



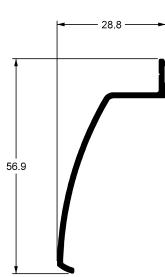
Clip For Condensation Channel

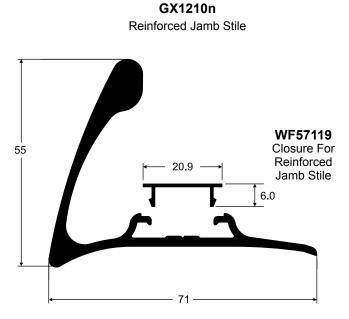
17.3 — 16.2

GX1134n



**GX1136n** Weather Bar For 3 Tracks



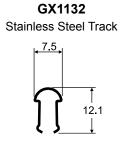


### 2.035

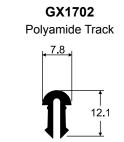
### **AUXILIARY SECTIONS**

GX1130 12.1

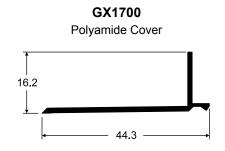
AluminiumTrack

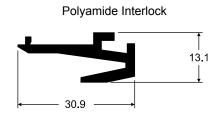


GX1230n

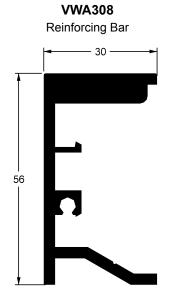


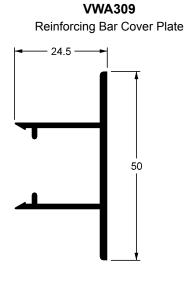
Meeting Stile Adaptor - 27.1-21.8





GX1701





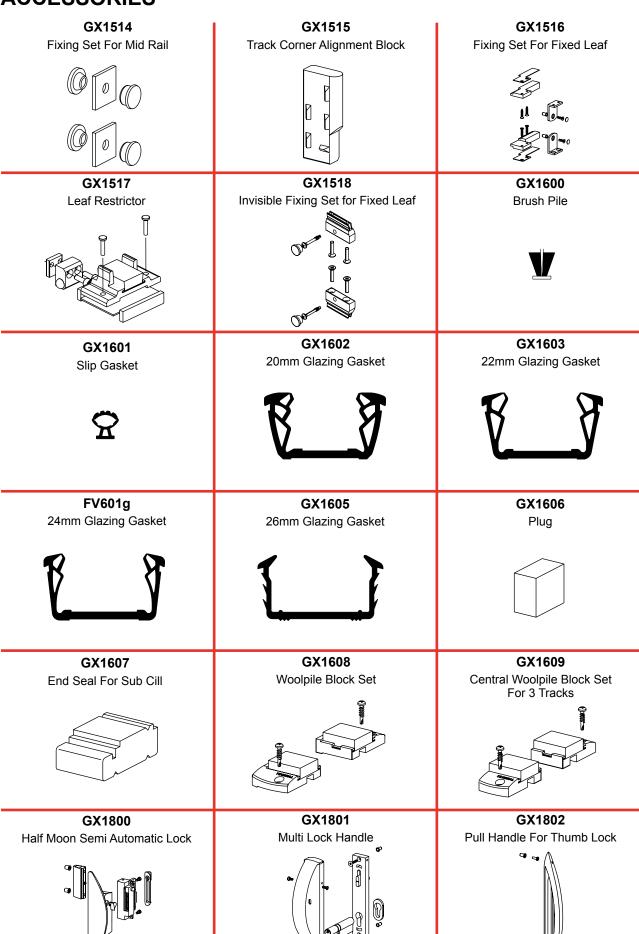


### **ACCESSORIES**

### FV3160 FX510a FX518a Drainage Cap 15x24 Corner Cleat Screw SR2 4.2x28 FX529a GX1501 GX1500 Weather Bar Screw Pin For Corner Cleat Leaf Assembly Screw 4.8x50 GX1502 GX1503 GX1504 Screw 4.8x45 Valve Film For FV3160 Jamb Stile End Plug Set GX1505 GX1506 GX1507 Interlock Stile End Plug Set Interlock Stile Guide Reinforced Interlock Cap Set GX1508 GX1509 GX1510 GX1101p and GX1103p Condensation Reinforced Jamb Cap Set GX1133n Condensation Channel Channel End Cap Set End Cap Set GX1511 GX1512 GX1513 **Drainage Deflector** Fixing For Meeting Stile Adaptor Leaf Stop

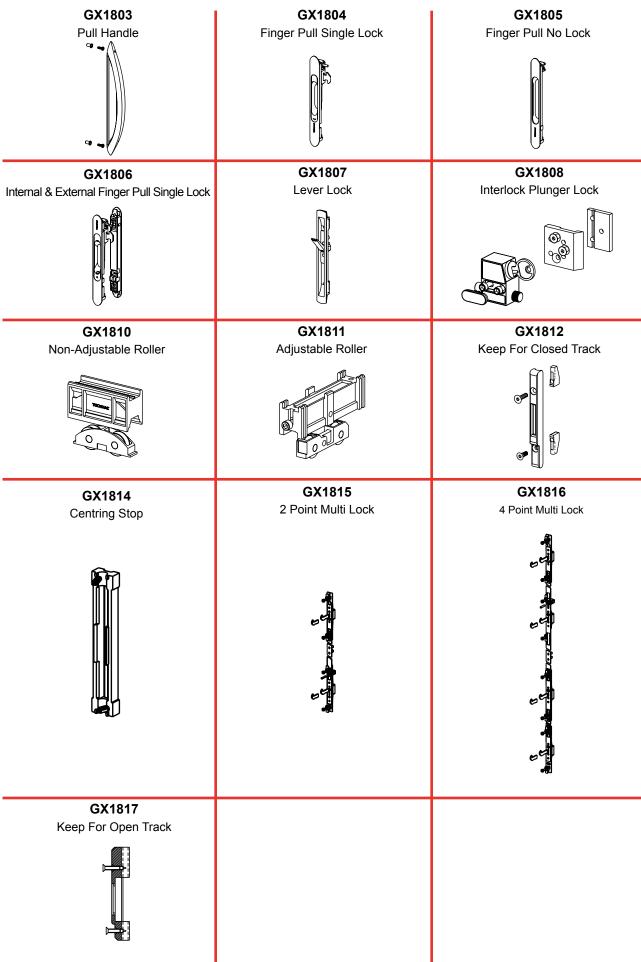
**ISSUE 02 JUNE 2010** 

### **ACCESSORIES**



**TECHNAL®** 

### **ACCESSORIES**



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### **GXi GLAZING OPTIONS**

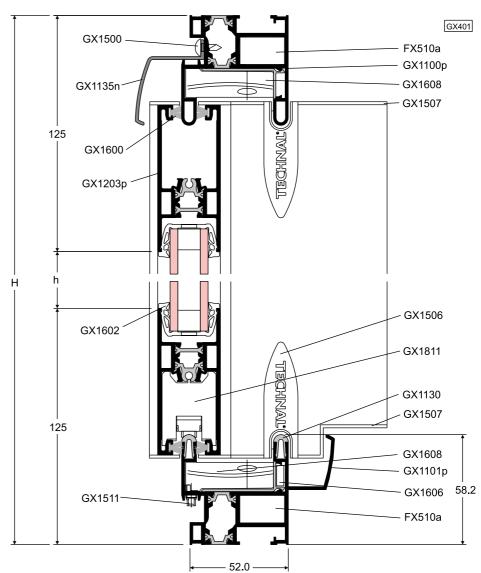
Gasket	Reference	Unit Size
	GX1602	20mm
<b>E_3</b>	GX1603	22mm
	FV601g	24mm
	GX1605	26mm



### 2 LEAF - LEFT HAND LEAF ON EXTERNAL TRACK

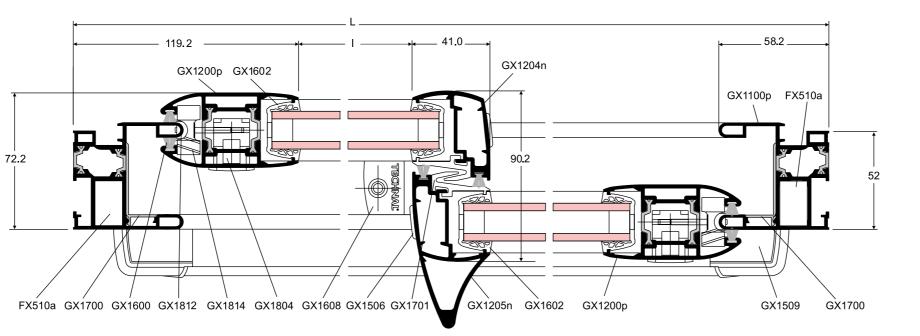
	REF	DESCRIPTION	PREPARATION	QTY	CUTTING
	GX1101p	OPEN TRACK OUTER FRAME WITH CONDENSATION CHANNEL		1	L
	GX1100p	CLOSED TRACK OUTER FRAME	2 1	H L	
	GX1200p	JAMB STILE		2	H-95
S	GX1204n	INTERLOCK STILE		1	H-95
Ó	GX1205n	REINFORCED INTERLOCK STILE		1	H-95
SECTIONS	GX1203p	TOP AND BOTTOM RAIL		4	L/2 -100
S	GX1701	POLYAMIDE INTERLOCK		2	H-95
	GX1700	POLYAMIDE COVER		2 2	H-56 L-56
	GX1130	ALUMINIUM TRACK		2	L-108.5
	GX1135n	WEATHER BAR		1	L-30
ACCESSORIES	GX1511 FX510a GX1502 GX1504 GX1505 GX1507 GX1506 GX1608 GX1509 GX1811 GX1515 GX1606 GX1513 GX1500 GX1600	DRAINAGE DEFLECTOR CORNER CLEAT SCREW 4.8x45 JAMB STILE END PLUG SET INTERLOCK STILE END PLUG SET REINFORCED INTERLOCK CAP SET INTERLOCK STILE GUIDE WOOLPILE BLOCK SET GX1101 AND GX1103 CONDENSATION CHA ADJUSTABLE ROLLER TRACK CORNER ALIGNMENT BLOCK PLUG LEAF STOP WEATHER BAR SCREW BRUSH PILE	ANNEL END CAP SET	4 4 3 2 1/300mm 6H+4L*	
	GX1602 GX1804 GX1812 GX1814	20mm GLAZING GASKET  FINGER PULL SINGLE LOCK KEEP FOR CLOSED TRACK CENTRING STOP	4H+2L* 2 2 2		

GLAZING SIZES
H - 227mm L/2 -113mm
Or sightline method I + 27mm h + 23mm



\*QTY REQUIRED - NOT CUTTING SIZE

5.005

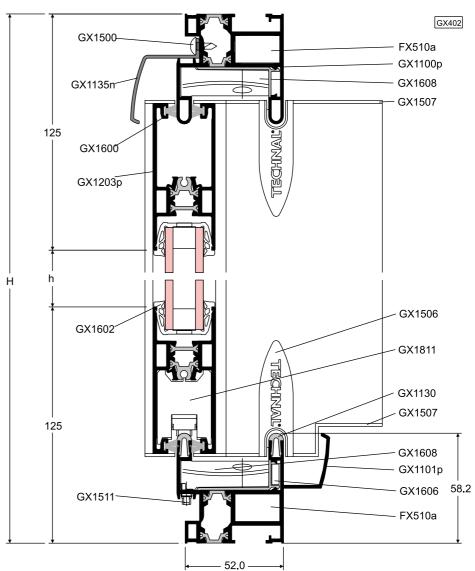


5.005

### 3 LEAF - CENTRAL LEAF ON EXTERNAL TRACK

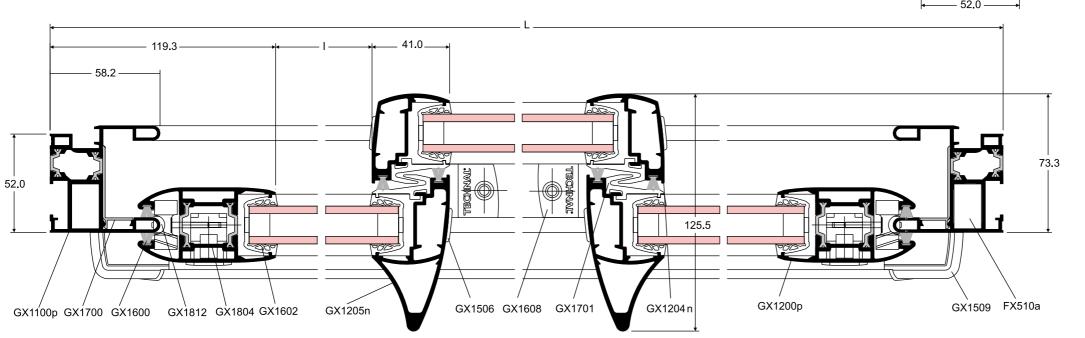
	REF	DESCRIPTION	PREPARATION	QTY	CUTTING
	GX1101p	OPEN TRACK OUTER FRAME	FILERARATION	1	L
	GX1100p	WITH CONDENSATION CHANNEL CLOSED TRACK OUTER FRAME	2	H L	
	GX1200p	JAMB STILE	2	H-95	
<u>S</u>	GX1204n	INTERLOCK STILE		2	H-95
SECTIONS	GX1205n	REINFORCED INTERLOCK STILE		2	H-95
ECT	GX1203p	TOP AND BOTTOM RAIL		6	L/3-67.5
S	GX1701	POLYAMIDE INTERLOCK		4	H-95
	GX1700	POLYAMIDE COVER		2 2	H-56 L-56
	GX1130	ALUMINIUM TRACK		2	L-108.5
	GX1135n	WEATHER BAR		1	L-30
ACCESSORIES	GX1511 FX510a GX1501 GX1504 GX1505 GX1507 GX1506 GX1608 GX1509 GX1811 GX1515 GX1606 GX1513 GX1500	DRAINAGE DEFLECTOR CORNER CLEAT SCREW 4.8x50 JAMB STILE END PLUG SET INTERLOCK STILE END PLUG SET REINFORCED INTERLOCK CAP SET INTERLOCK STILE GUIDE WOOLPILE BLOCK SET GX1101 AND GX1103 CONDENSATION CHA ADJUSTABLE ROLLER TRACK CORNER ALIGNMENT BLOCK PLUG LEAF STOP WEATHER BAR SCREW	ANNEL END CAP SET	2 4 12 2 4 2 8 2 1 6 4 4 4 4 1/300mm	
	GX1600 GX1602	BRUSH PILE 20mm GLAZING GASKET	8H+4L* 6H+2L*		
	GX1804 GX1812 GX1814	FINGER PULL SINGLE LOCK KEEP FOR CLOSED TRACK CENTRING STOP	2 2 2		

GLAZING SIZES
H - 227mm L/3 - 80mm
Or sightline method I + 27mm h + 23mm



\*QTY REQUIRED - NOT CUTTING SIZE

5.015

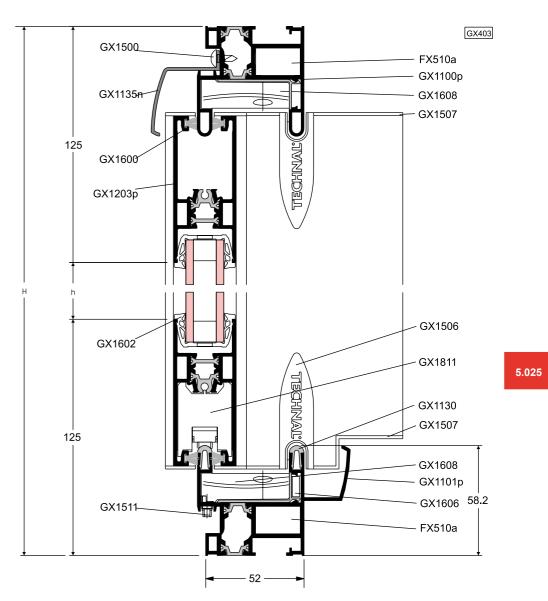


5.015

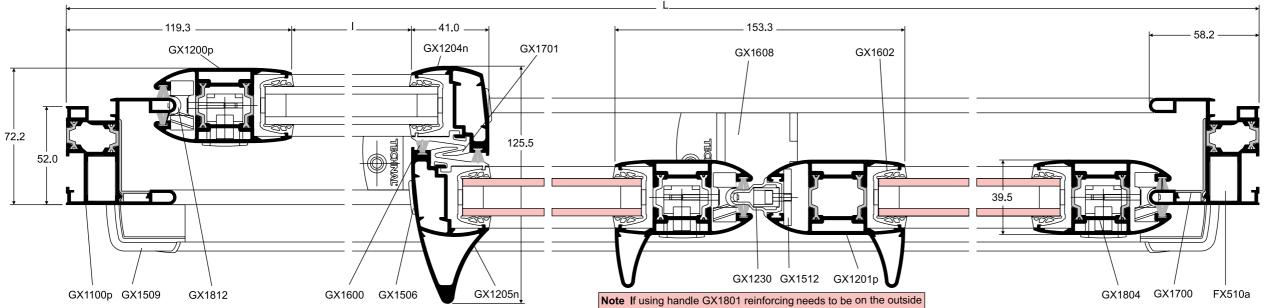
### 3 LEAF - LEFT HAND LEAF ON EXTERNAL TRACK

	REF	DESCRIPTION	PREPARATION	QTY	CUTTING
	GX1101p	OPEN TRACK OUTER FRAME WITH CONDENSATION CHANNEL		1	L
	GX1100p	CLOSED TRACK OUTER FRAME	2 1	H L	
	GX1200p	JAMB STILE		2	H-95
	GX1201p	REINFORCED JAMB STILE		2	H-95
	GX1204n	INTERLOCK STILE		1	H-95
	GX1205n	REINFORCED INTERLOCK STILE		1	H-95
NS	GX1203p	TOP AND BOTTOM RAIL		6	L/3-104.5
SECTIONS	GX1701	POLYAMIDE INTERLOCK		2	H-95
SEC	GX1700	POLYAMIDE COVER	2	H-56	
			2	L-56	
	GX1130	ALUMINIUM TRACK	2	L-108.5	
	GX1135n	WEATHER BAR	1	L-30	
	GX1230n	MEETING STILE ADAPTOR		1	H-95
ACCESSORIES	GX1511 FX510a GX1501 GX1504 GX1508 GX1505 GX1507 GX1506 GX1608 GX1509 GX1811 GX1515 GX1606 GX1513 GX1500	DRAINAGE DEFLECTOR CORNER CLEAT SCREW 4.8x50 JAMB STILE END PLUG SET REINFORCED JAMB STILE CAP SET INTERLOCK STILE END PLUG SET REINFORCED INTERLOCK CAP SET INTERLOCK STILE GUIDE WOOLPILE BLOCK SET GX1101 AND GX1103 CONDENSATION CHA ADJUSTABLE ROLLER TRACK CORNER ALIGNMENT BLOCK PLUG LEAF STOP WEATHER BAR SCREW	NNEL END CAP SET	2 4 12 4 2 2 1 4 2 1 6 4 3 2 1/300mm	
	GX1600 GX1602 GX1804	BRUSH PILE 20mm GLAZING GASKET FINGER PULL LOCK SINGLE LOCK	8H+4L* 6H+2L*		
	GX1812 GX1814	KEEP FOR CLOSEDTRACK CENTRING STOP	3		

GLAZING SIZES
H - 227mm L/3 - 117.5mm
Or sightline method I + 27mm h + 23mm



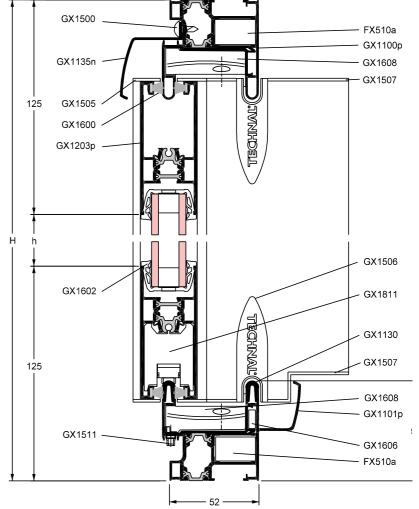
\*QTY REQUIRED - NOT CUTTING SIZE



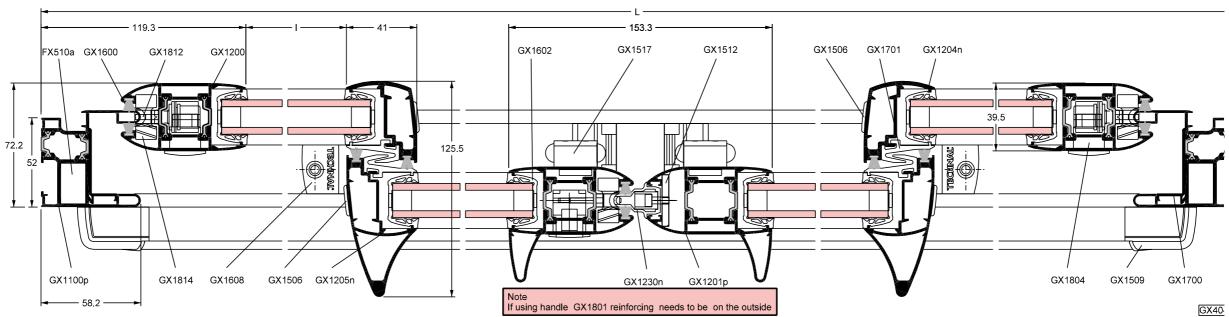
### **4 LEAF - OUTER LEAVES ON EXTERNAL TRACK**

	REF	DESCRIPTION	PREPARATION	QTY	CUTTING
	GX1101p	OUTER FRAME SILL SECTION		1	L
SECTIONS	GX1100p	CLOSED TRACK OUTER FRAME		2	H L
	GX1200p	JAMB STILE		2	H-95
	GX1201p	REINFORCED JAMB STILE		2	H-95
	GX1204n	INTERLOCK STILE		2	H-95
	GX1205n	REINFORCED INTERLOCK STILE		2	H-95
	GX1203p	TOP AND BOTTOM RAIL		8	L/4-79
	GX1701	POLYAMIDE INTERLOCK		4	H-95
	GX1700	POLYAMIDE COVER		2 2	H-56 L-56
	GX1130	ALUMINIUM TRACK		2	L-108.5
	GX1135n	WEATHER BAR		1	L-30
	GX1230n	MEETING STILE ADAPTOR		1	H-95
ACCESSORIES	GX1511 FX510a GX1501 GX1504 GX1505 GX1505 GX1507 GX1506 GX1507 GX1509 GX1811 GX15509 GX1811 GX1513 GX1500 GX1512	DRAINAGE DEFLECTOR CORNER CLEAT SCREW 4.8x50 JAMB STILE END PLUG SET REINFORCED JAMB STILE CAP SET INTERLOCK STILE END PLUG SET REINFORCED INTERLOCK CAP SET INTERLOCK STILE GUIDE WOOLPILE BLOCK SET LEAF RESTRICTOR GX1101 AND GX1103 CONDENSATION CHA ADJUSTABLE ROLLER TRACK CORNER ALIGNMENT BLOCK PLUG LEAF STOP WEATHER BAR SCREW FIXING FOR MEETING STILE ADAPTOR	NNEL END CAP SET	4 4 16 4 2 4 2 8 2 1 1 1 8 4 4 4 4 1/300mm 5	
	GX1600 GX1602 GX1804 GX1812	BRUSH PILE 20mm GLAZING GASKET  FINGER PULL SINGLE LOCK KEEP FOR CLOSED TRACK CENTRING STOR		10H+4L* 8H+2L* 3 3	
	GX1814	CENTRING STOP		3	

GLAZING SIZES		
H - 227mm L/4 - 92mm		
Or sightline method I + 27mm h + 23mm		



\*QTY REQUIRED - NOT CUTTING SIZE



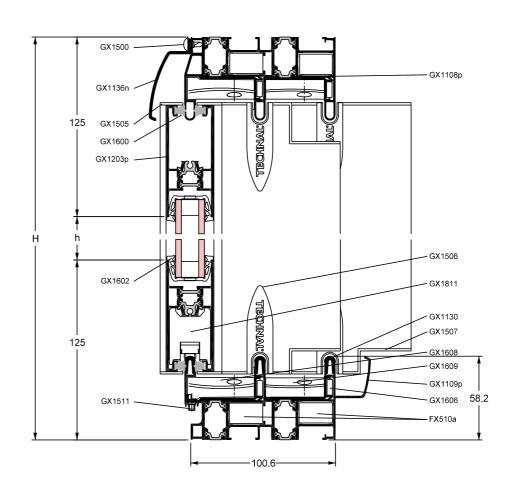
5.035

5.035

# 3 LEAF, 3 TRACKS - LEFT HAND LEAF ON EXTERNAL TRACK

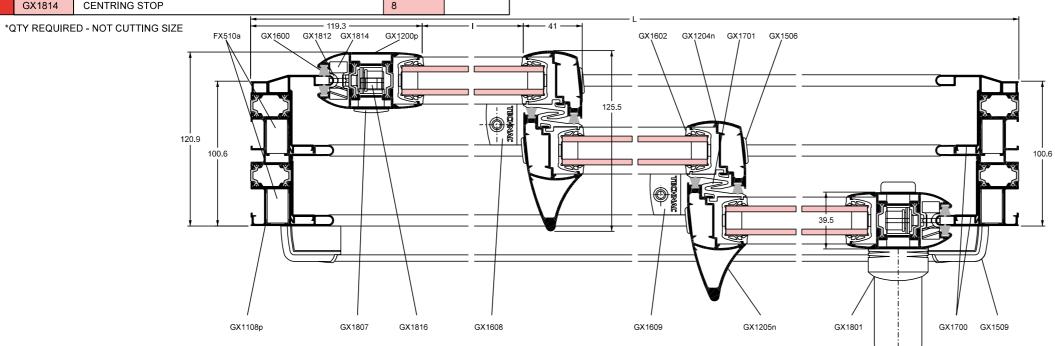
					1
	REF	DESCRIPTION	PREPARATION	QTY	CUTTING
SECTIONS	GX1109p	OPEN TRACK OUTER FRAME WITH CONDENSATION CHANNEL		1	L
	GX1108p	CLOSED TRACK OUTER FRAME		2	H L
	GX1200p	JAMB STILE		2	H-95
	GX1204n	INTERLOCK STILE		2	H-95
5	GX1205n	REINFORCED INTERLOCK STILE		2	H-95
SEU	GX1203p	TOP AND BOTTOM RAIL		6	L/3-67.5
	GX1701	POLYAMIDE INTERLOCK		4	H-95
				2	H-55.2
	GX1700	POLYAMIDE COVER		2	H-56.6
	GX1700	FOLIAMIDE COVER		2	L-55.2
				2	L-56.6
	GX1130	ALUMINIUM TRACK		3	L-108.5
	GX1136n	WEATHER BAR		1	L-30
ACCESSORIES	GX1511 FX510a GX1501 GX1504 GX1505 GX1507 GX1506 GX1608 GX1609 GX1811 GX1515 GX1606 GX1513 GX1513	DRAINAGE DEFLECTOR CORNER CLEAT SCREW 4.8X50 JAMB STILE END PLUG SET INTERLOCK STILE END PLUG SET REINFORCED INTERLOCK CAP SET INTERLOCK STILE GUIDE WOOLPILE BLOCK SET 3 TRACKS WOOLPILE BLOCK SET CONDENSATION CHANNEL END CAP SET ADJUSTABLE ROLLER TRACK CORNER ALIGNMENT BLOCK PLUG LEAF STOP WEATHER BAR SCREW		2 8 12 2 4 2 8 1 1 1 6 4 4 4 4 1/300mm	
	GX1600 GX1602	BRUSH PILE 20mm GLAZING GASKET		8H+4L* 6H+2L*	
	GX1801 GX1807 GX1816 GX1812 GX1814	MULTI LOCK HANDLE LEVER LOCK 4 POINT MULTI LOCK KEEP FOR CLOSED TRACK CENTRING STOP		1 1 2 8 8	

GLAZING SIZES
H - 227mm L/3 - 80mm
Or sightline method I + 27mm h + 23mm



GX407

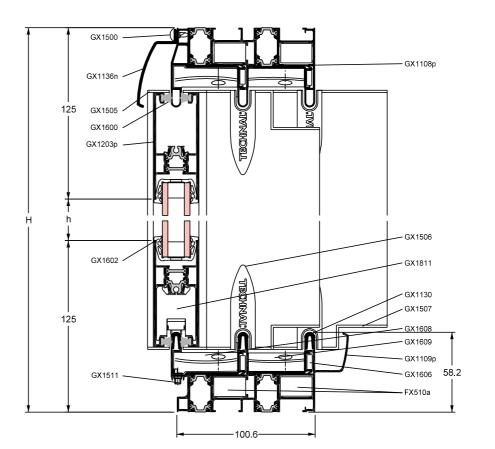
5.045



# 6 LEAF, 3 TRACKS - LEFT AND RIGHT HAND LEAF ON EXTERNAL TRACK

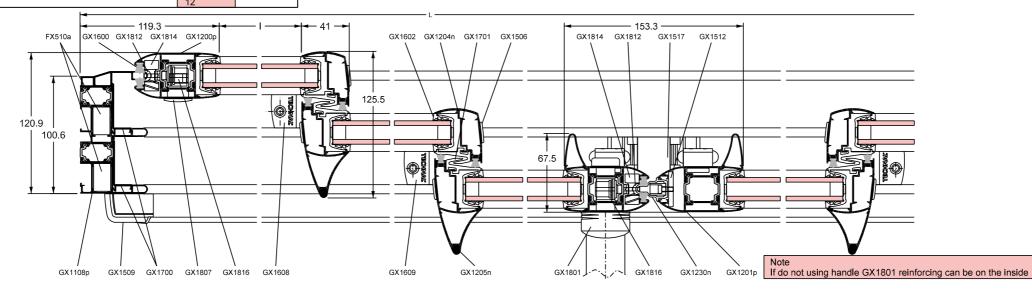
	REF	DESCRIPTION	PREPARATION	QTY	CUTTING
	GX1109p	OPEN TRACK OUTER FRAME WITH CONDENSATION CHANNEL		1	L
	GX1108p	CLOSED TRACK OUTER FRAME		2	H L
	GX1200p	JAMB STILE		2	H-95
	GX1201p	REINFORCED JAMB STILE		2	H-95
S	GX1204n	INTERLOCK STILE		4	H-95
ECTIONS	GX1205n	REINFORCED INTERLOCK STILE		4	H-95
EC	GX1203p	TOP AND BOTTOM RAIL		12	L/6-53.5
S	GX1230n	MEETING STILE ADAPTOR		1	H-95
	GX1701	POLYAMIDE INTERLOCK		8	H-95
				2	H-55.2
	0.74700	DOLYAMIDE OOVED		2	H-56.6
	GX1700	POLYAMIDE COVER		2	L-55.2
				2	L-56.6
	GX1130	ALUMINIUM TRACK		3	L-108.5
	GX1136n	WEATHER BAR		1	L-30
ACCESSORIES	GX1511 FX510a GX1501 GX1504 GX1505 GX1507 GX1508 GX1508 GX1609 GX1517 GX1512 GX1509 GX1811 GX1515 GX1606 GX1513 GX1500	DRAINAGE DEFLECTOR CORNER CLEAT SCREW 4.8X50 JAMB STILE END PLUG SET INTERLOCK STILE END PLUG SET REINFORCED INTERLOCK CAP SET REINFORCED JAMB CAP SET INTERLOCK STILE GUIDE WOOLPILE BLOCK SET 3 TRACKS WOOLPILE BLOCK SET LEAF RESTRICTOR FIXING FOR MEETING STILE ADAPTOR CONDENSATION CHANNEL END CAP SET ADJUSTABLE ROLLER TRACK CORNER ALIGNMENT BLOCK PLUG LEAF STOP WEATHER BAR SCREW		4 8 24 4 8 4 2 16 2 2 1 6 1 12 4 8 8 1/300mm	
	GX1600 GX1602 GX1801 GX1807 GX1816 GX1812 GX1814	BRUSH PILE 20mm GLAZING GASKET MULTI LOCK HANDLE LEVER LOCK 4 POINT MULTI LOCK KEEP FOR CLOSED TRACK CENTRING STOP		14H+4L* 12H+2L* 1 2 3 12 12	

GLAZING SIZES
H - 227mm L/6 - 66.5mm
Or sightline method I + 27mm h + 23mm



\*QTY REQUIRED - NOT CUTTING SIZE

5.055



5.050

GX408b

# GX1207p MID RAIL - GX1105p SUB CILL

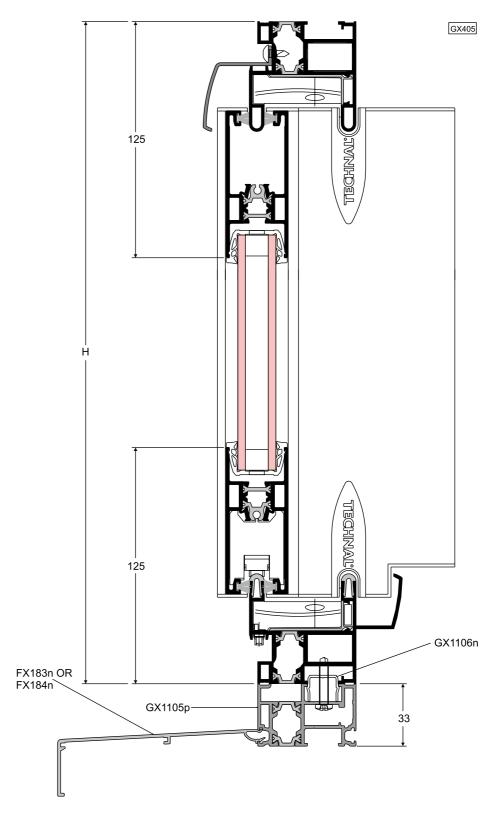
GLAZING Ht WITH MIDRAIL

H2=Ht - 140 H3=H - Ht - 140 WHERE Ht IS TO MIDRAIL CL

5.065

125 47.5

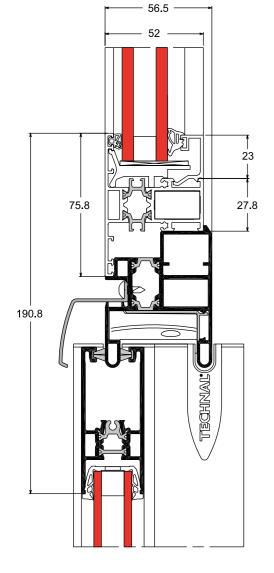
REF	DESCRIPTION	PREPARATION	QTY	CUTTING
GX1207p	MID RAIL		1	AS TOP/BOTTOM RAIL
GX1514	FIXING SET FOR MID RAIL		1	
GX1501	LEAF ASSEMBLY SCREW 4.8x50		2	



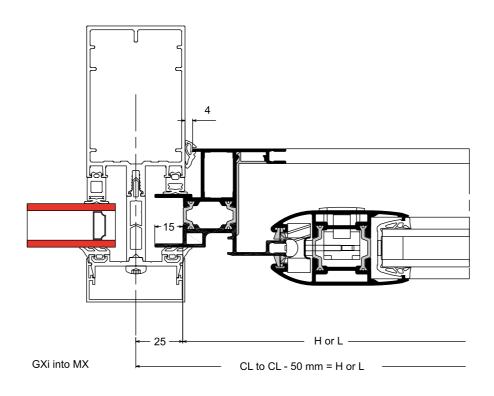
REF	DESCRIPTION	QTY	CUTTING
GX1105p	SUB CILL	1	AS OUTER FRAME W
GX1106n	LOCATION CLIP PROFILE FOR SUB SILL	1/500 +1	150mm
FX518a	ASSEMBLY SCREW SR4.2x28	1/500 +1	

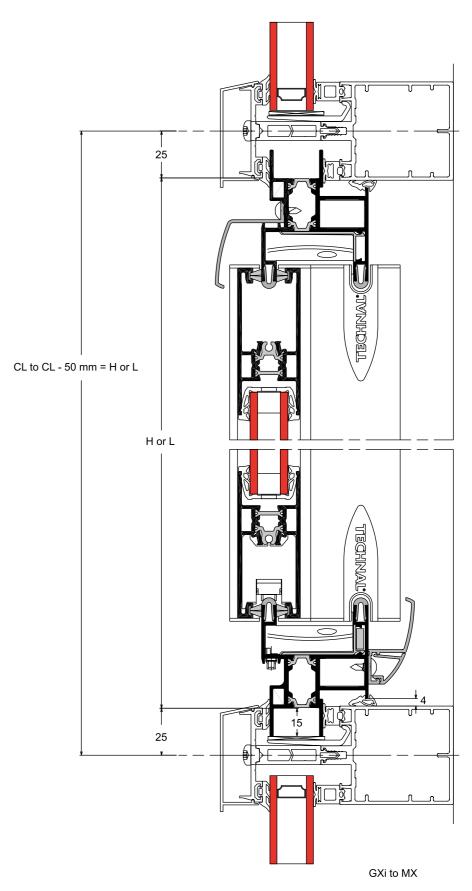
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5.075

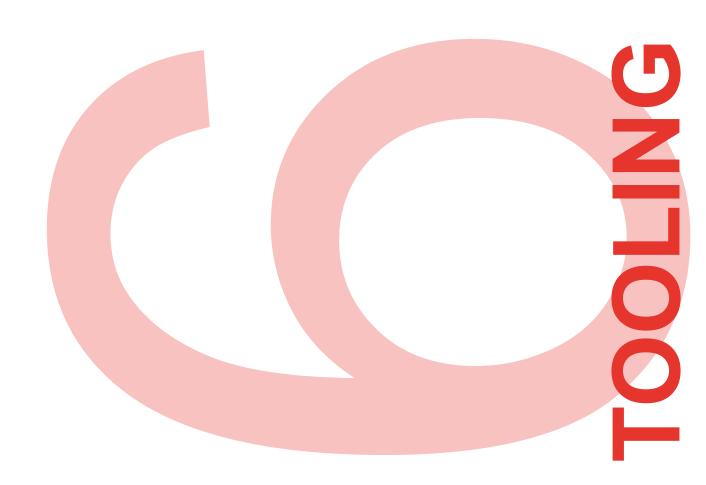


GXi into FXi52





GX406b



# PERFOPACK® PUNCHING TOOLS

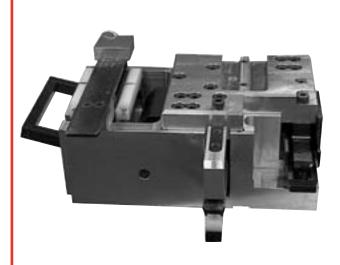
GX1001t

Punch Tool for Drainage



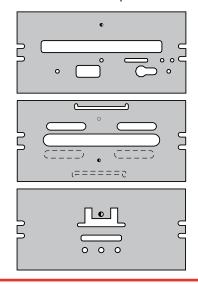
GX1002t

Punch Tool for Leaf Preparation



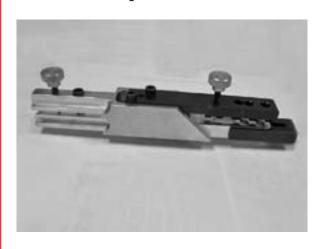
GX1003t

**Router Template** 



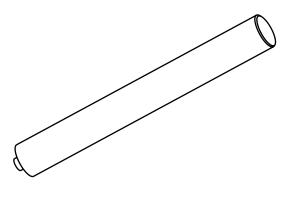
FX004t

Drill Jig for Corner Cleat



FX019t

Pin Insertion Punch

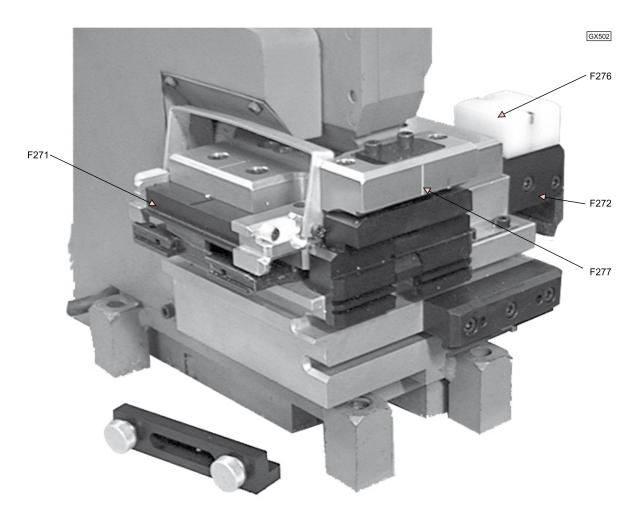


FX023t

**Punch Tool for Corner Cleat** 



#### **GX1001t PERFOPACK® PUNCHING TOOLS**

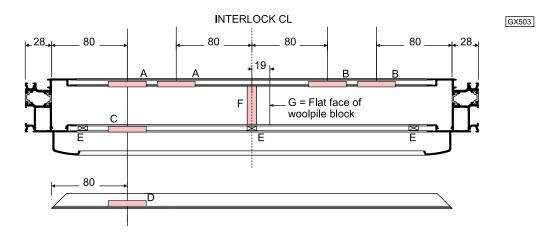


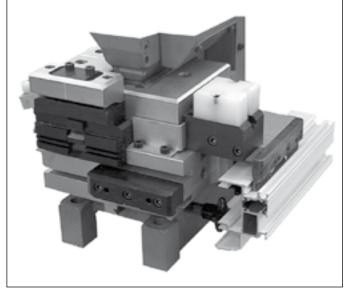
F271	SUPPORT AND PUNCH FOR GXI OUTERFRAME DRAINAGE
F272	SUPPORT AND PUNCH FOR GXI CONCEALED DRAINAGE
F276	SUPPORT AND PUNCH FOR PVC AND ALUMINIUM RAIL
F277	SUPPORT AND PUNCH FOR COVER STRIP

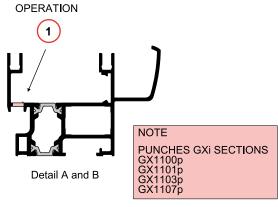
#### NOTE

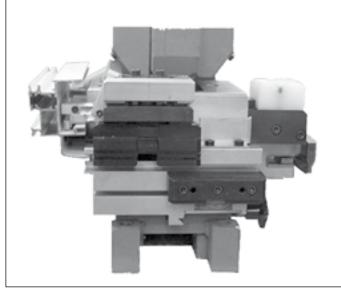
PUNCHES MUST BE LUBRICATED EVERY 20 CUTTINGS USING MCW540

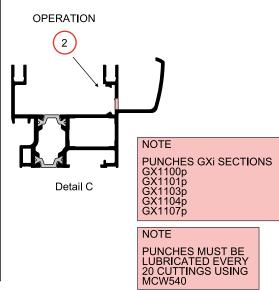
#### **GX1001t PERFOPACK® PUNCHING TOOLS**



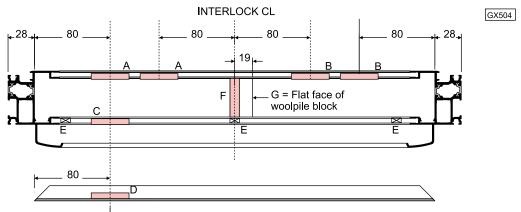




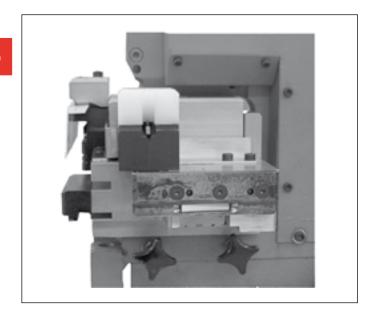




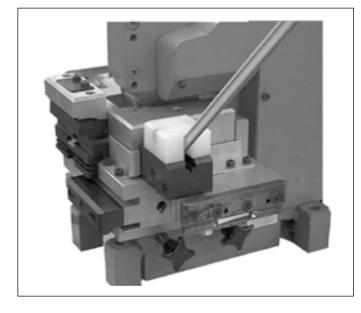
#### **GX1001t PERFOPACK® PUNCHING TOOLS**



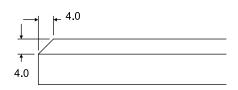
2 Leaf - Left Hand Leaf on Outside Track (see Chapter 7 for other combinations).









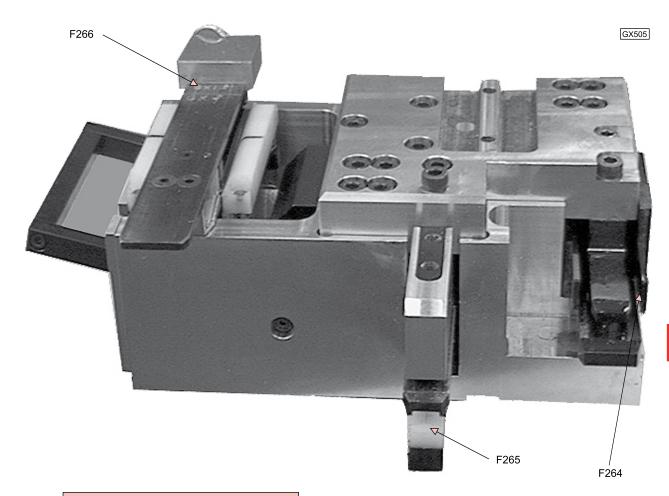


Machine aluminium track GX1130 and polyamide track GX1702 with punch tool GX1001t Machine Stainless steel track GX1132 manually

#### NOTE

PUNCHES MUST BE LUBRICATED EVERY 20 CUTTINGS USING MCW540

# **GX1002t PERFOPACK® PUNCHING TOOLS**

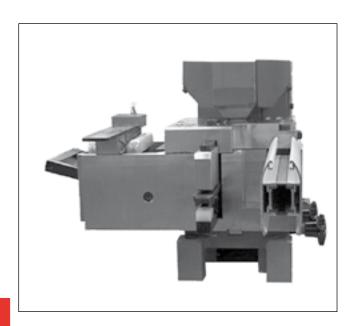


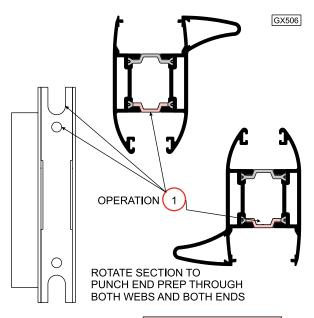
NOTE

PUNCHES MUST BE LUBRICATED EVERY 20 CUTTINGS USING MCW540

F264	SUPPORT AND PUNCH FOR JAMB STILE END PREP
F265	SUPPORT AND PUNCH FOR INTERLOCK STILE
F266	SUPPORT AND PUNCH TO REMOVE GASKET NIBS

Use punch tool GX1002t for end preps. Reinforcement should be machined by hand see page 7.045

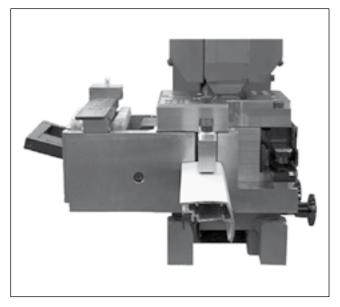


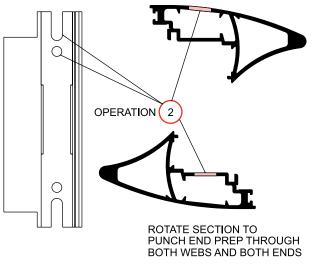


NOTE

**PUNCHES GXI SECTIONS** 

GX1200p GX1201p GX1208p





NOTE

PUNCHES GXi SECTIONS GX1204n

GX1205n GX1206n

GX1209n

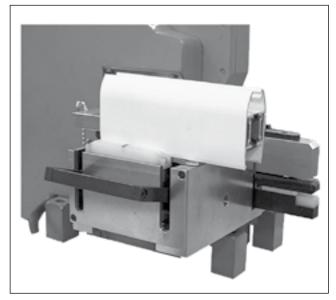
NOTE

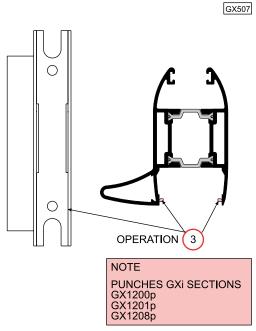
PUNCHES MUST BE LUBRICATED EVERY 20 CUTTINGS USING MCW540

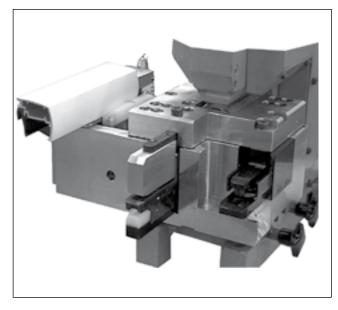
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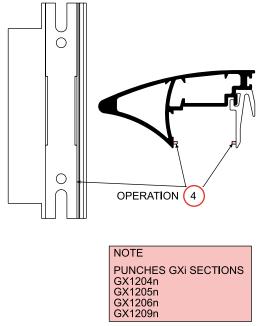
#### **GX1002t PERFOPACK® PUNCHING TOOLS**

Use punch tool GX1002t for end preps. Reinforcement should be machined by hand see page 7.045





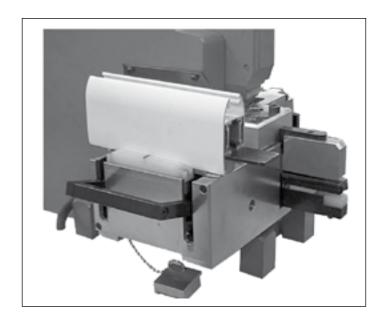


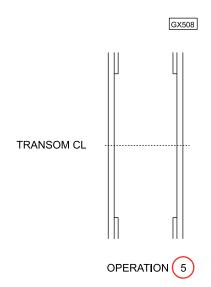


NOTE

PUNCHES MUST BE LUBRICATED EVERY 20 CUTTINGS USING MCW540

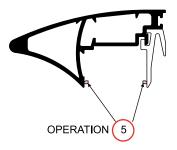
# **GX1002t PERFOPACK® PUNCHING TOOLS**







NOTE
PUNCHES GXI SECTIONS
GX1200p
GX1201p
GX1208p



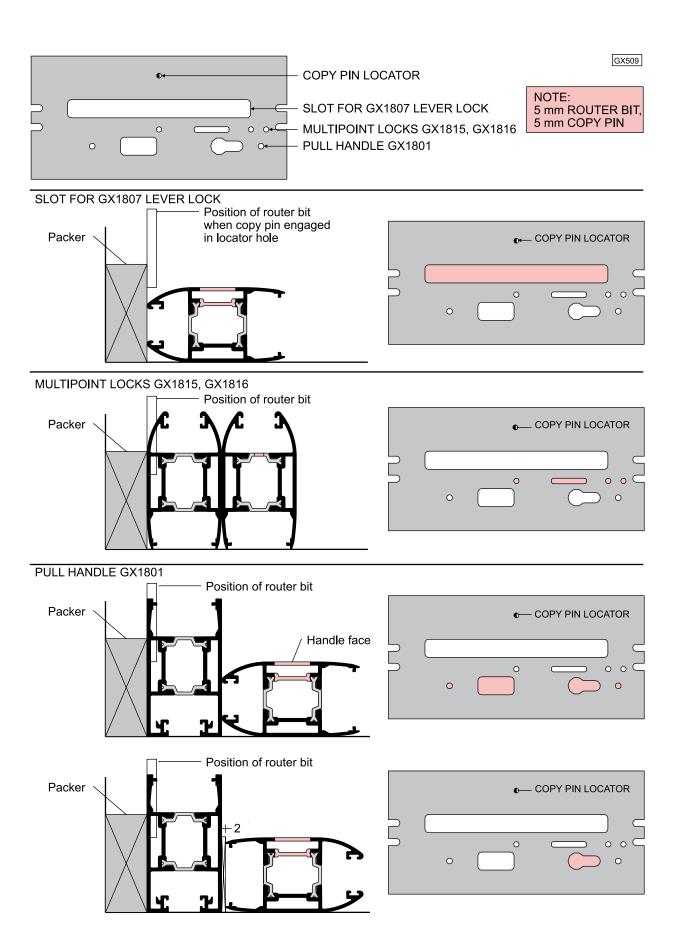
NOTE
PUNCHES GXI SECTIONS
GX1204n
GX1205n
GX1206n
GX1209n

NOTE

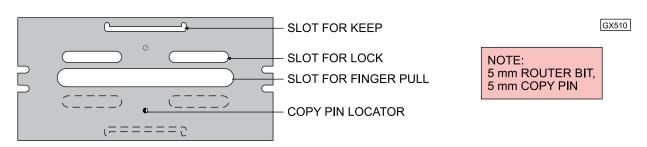
PUNCHES MUST BE LUBRICATED EVERY 20 CUTTINGS USING MCW540

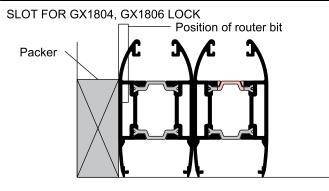
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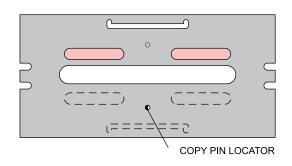
#### **GX1003t ROUTER TEMPLATE INSTRUCTIONS**

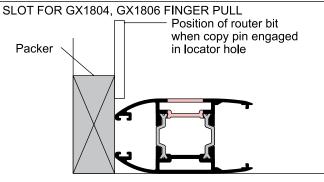


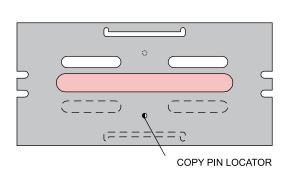
#### **GX1003t ROUTER TEMPLATE INSTRUCTIONS**

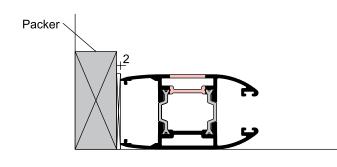


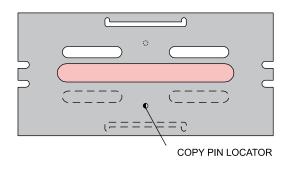




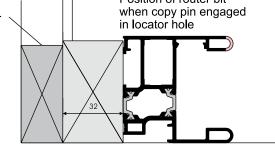


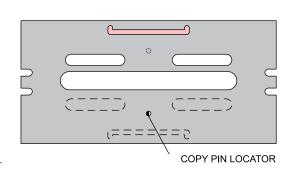






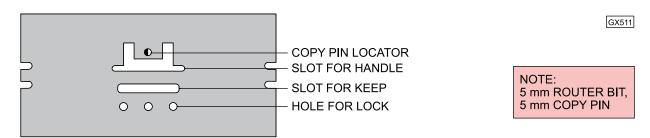




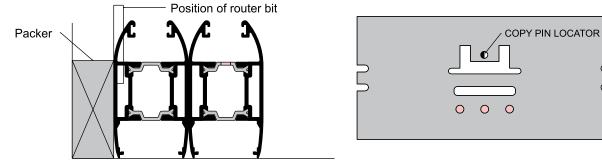


SLOT FOR GX1812 KEEP

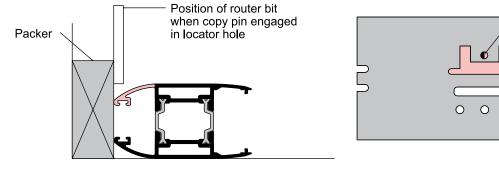
#### **GX1003t ROUTER TEMPLATE INSTRUCTIONS**

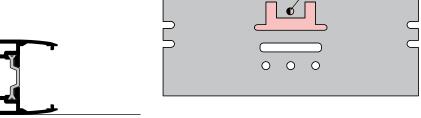




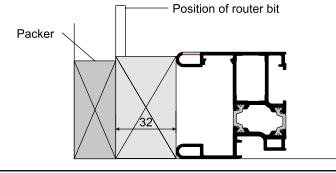


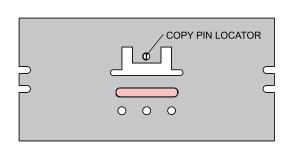
#### MACHINING DETAIL FOR GX1800 HALF MOON SEMI AUTOMATIC LOCK





#### KEEP FOR GX1800 HALF MOON SEMI AUTOMATIC LOCK





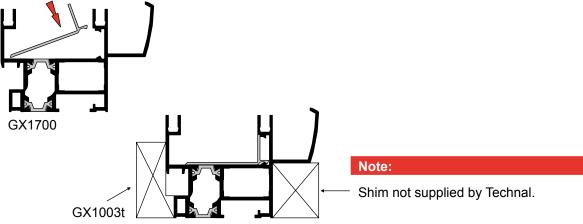
COPY PIN LOCATOR

# MACHINING & **ASSEMBI**

#### 7.005

#### **GX1700 PREPARATION MACHINE TRACK ENDS**

#### **GX1700 Preparation**

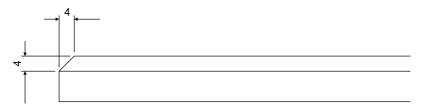


To mitre cut GX1700 polyamide cover strip to 45°

- 1. Clip poylamide cover strip GX1700 into outer frame.
- 2. Mitre cut assembly using shim ref GX1003t
- 3. Unclip cover strip.



#### **Machine Track**



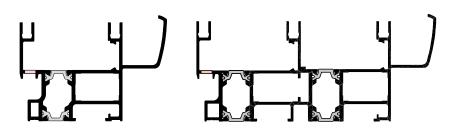
Machine aluminium track GX1130 and polyamide track GX1702 with punch tool GX1001t

Machine stainless steel track GX1132 manually.

ISSUE 02 JUNE 2010

GX601

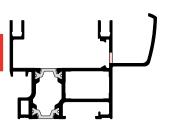
#### **KEY TO DETAILS USED IN OUTER FRAME DRAINAGE** DRAWINGS ON PAGES 7.020 TO 7.035



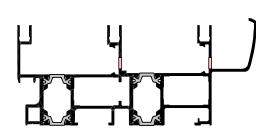
#### A & B

A - Slot 6x40mm (Perfopack GX1001t).

**B** - Slot 6x40mm (Perfopack GX1001t). Repeat at 250mm - 300mm centres thereafter.



7.010



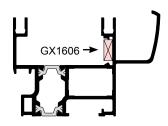
#### C

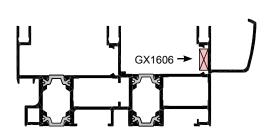
Slot 6x40mm inside track channel (Perfopack GX1001t).



#### D

Slot 6x40mm in GX1700 polyamide cover (Perfopack GX1001t).

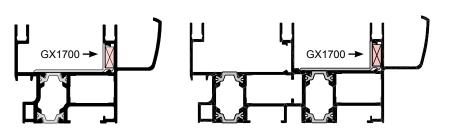




#### Ε

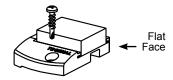
Insert GX1606 plugs sealed all round with a low modulus silicone sealant.

# **KEY TO DETAILS USED IN OUTER FRAME DRAINAGE DRAWINGS ON PAGES 7.020 TO 7.035**



F

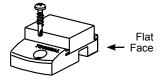
Fit GX1700 polyamide cover, bed on low modulus silicone sealant where shown.



#### **G-GX1608**

For 2 tracks and external woolpile for 3 tracks.

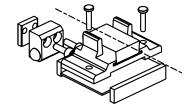
Line indicates flat face of GX1608 woolpile block.



#### G - GX1609

For 3 tracks internal woolpile.

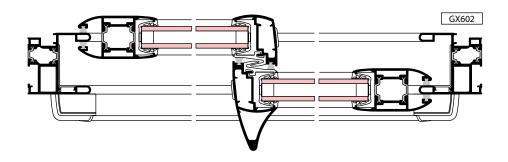
Line indicates flat face of GX1609 woolpile block.

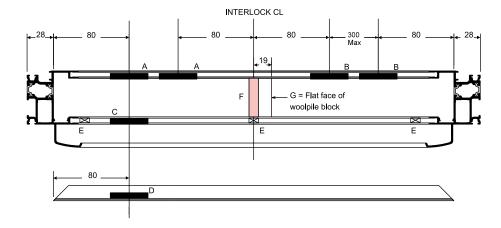


#### H - GX1517

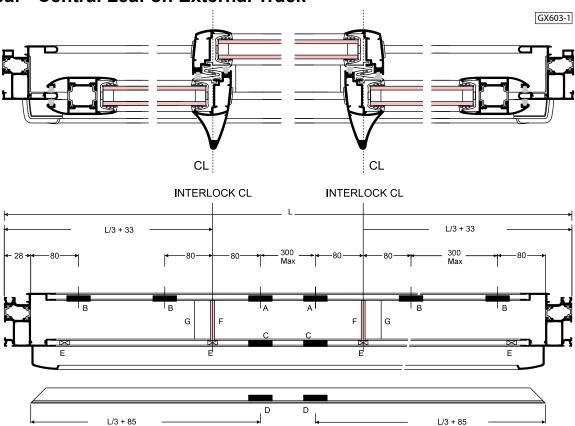
Line indicates axis of GX1517 stop plate.

#### 2 Leaf - Left Hand Leaf on External Track





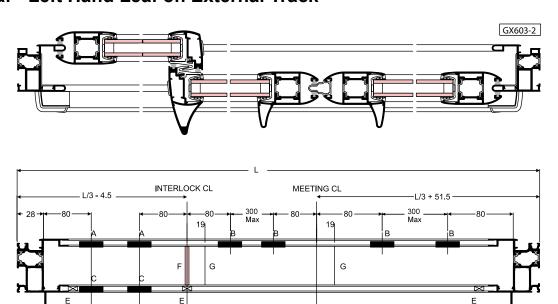
#### 3 Leaf - Central Leaf on External Track



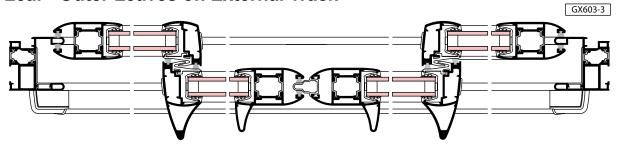
For key to details used see pages 7.010 and 7.015

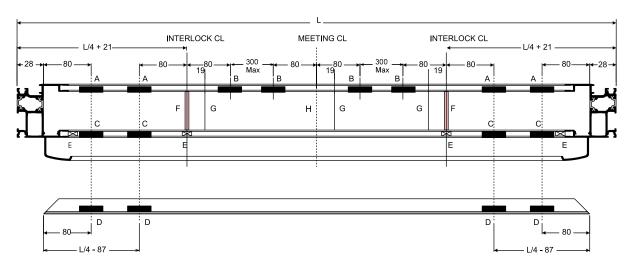


#### 3 Leaf - Left Hand Leaf on External Track



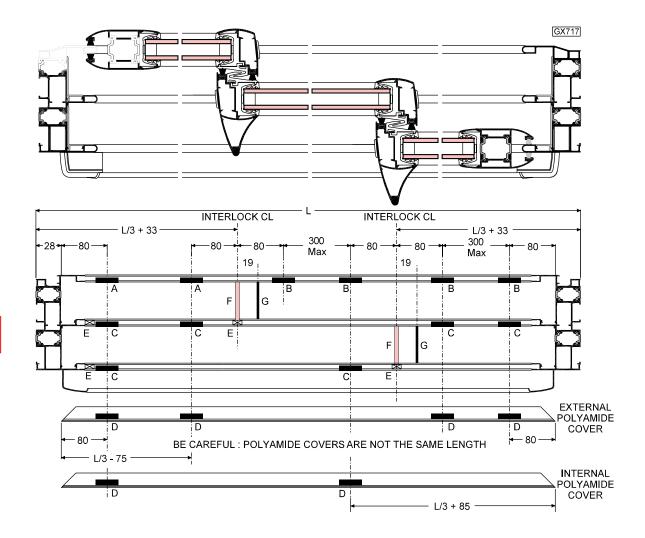
4 Leaf - Outer Leaves on External Track





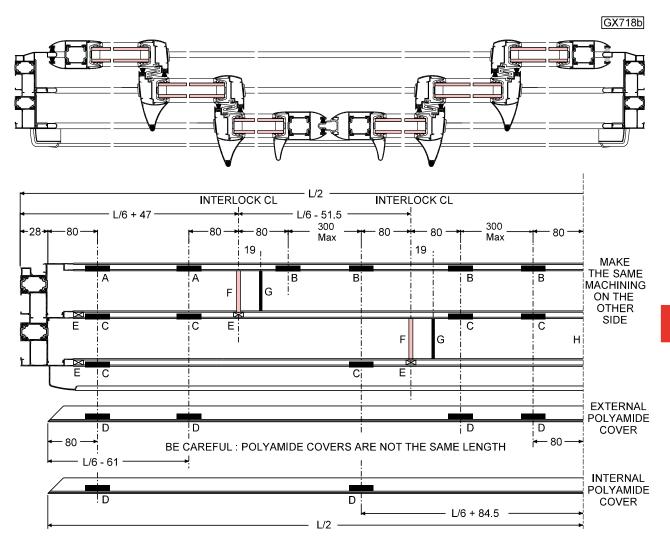
For key to details used see pages 7.010 and 7.015

# 3 Leaf, 3 Tracks - Left Hand Leaf on External Track



For key to details used see pages 7.010 and 7.015

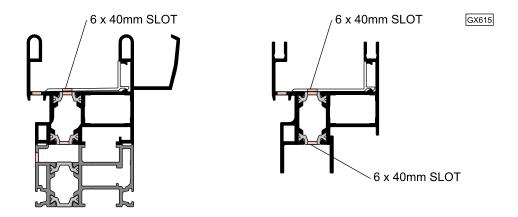
# 6 Leaf, 3 Tracks - Left & Right Hand Leaves on External Track

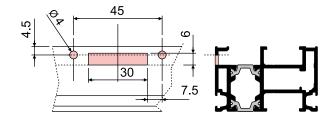


For key to details used see pages 7.010 and 7.015

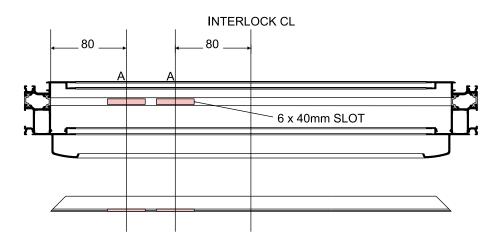
# **ALTERNATIVE DRAINAGE FOR GX1105p & GX1107p**

Line alternative slots with slot A (see previous pages), repeat at 500mm centres.



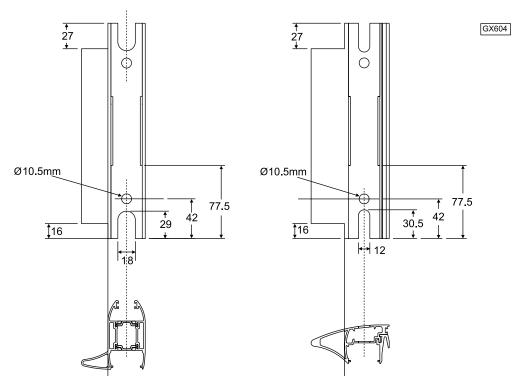


For Example: 2 Leaf - Left hand leaf on outside track, see previous pages for other combinations.



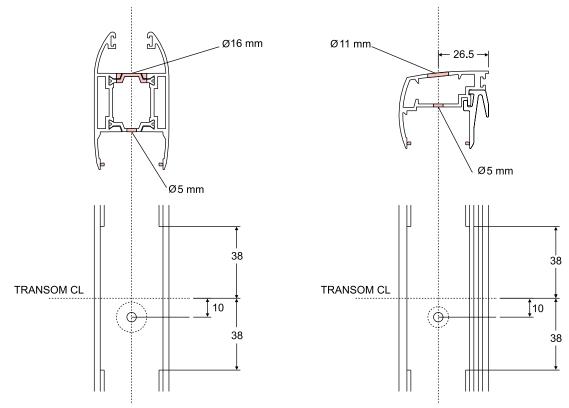
#### STILE PREPARATION

# **End Preparation**



Use punch tool GX1002t for end preparation. Reinforcement should be machined by hand

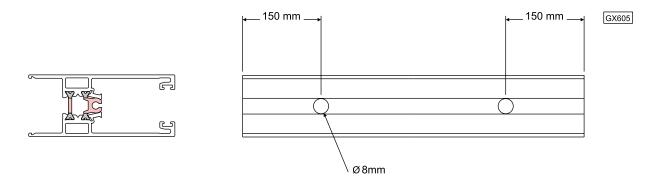
#### **For Intermediate Transom**



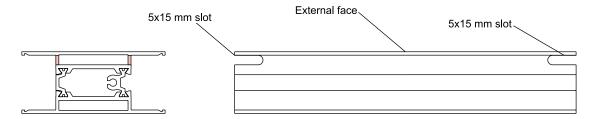
Use punch tool GX1002t to remove gasket nibs

#### **RAIL PREPARATION**

# **Drainage for Bottom Rail**



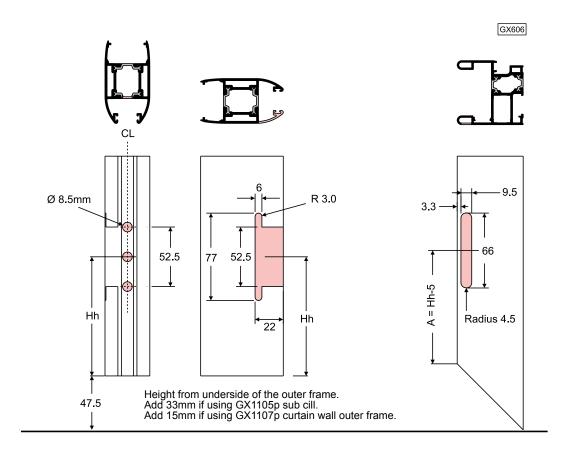
# **Drainage for Transom**



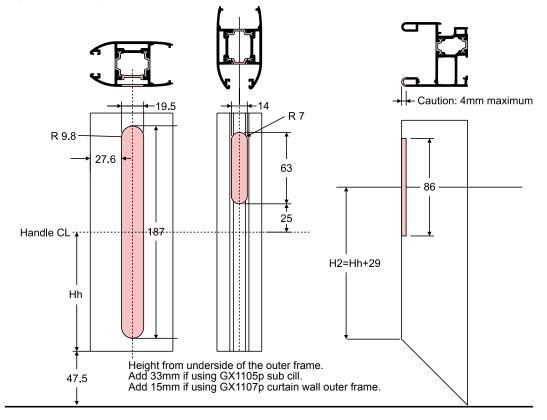
7.050

#### **MACHINE FOR LOCKS & HANDLES**

# **GX1800 Half Moon Semi-Automatic Lock**

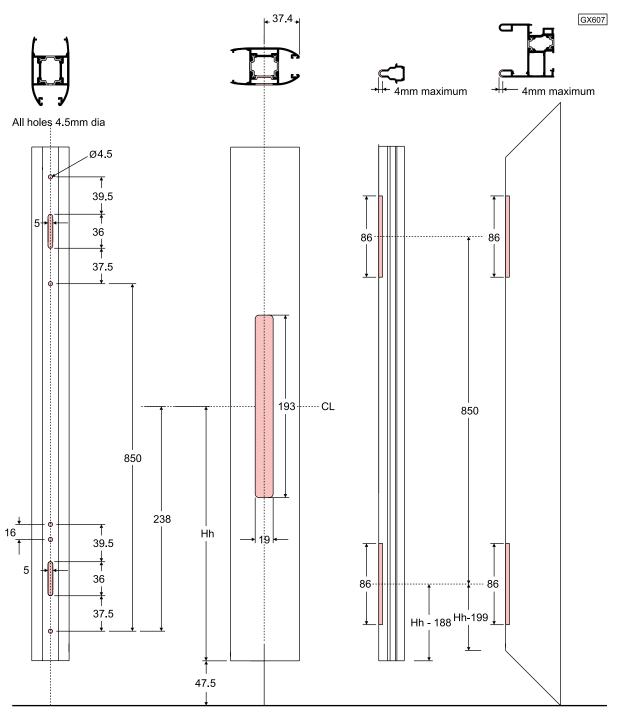


#### GX1804, GX1105, GX1806



#### GX1807 Lever Lock with GX1815 - 2 Point Multilock

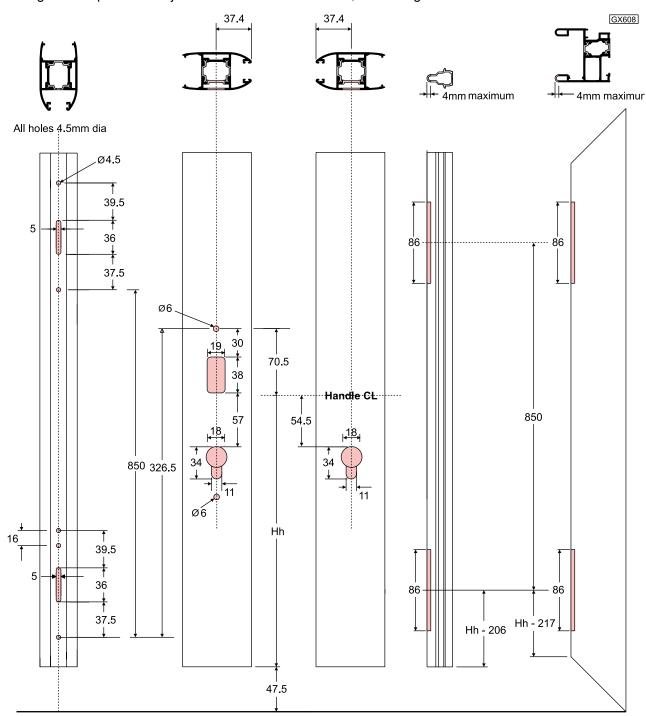
Minimum Leaf Height 1150, Minimum Handle Height 330.



Height from underside of the outer frame. Add 33mm if using GX1105p sub cill. Add 15mm if using GX1107p curtain wall outer frame.

#### GX1801 Multilock Handle - GX1815 2 Point Lock

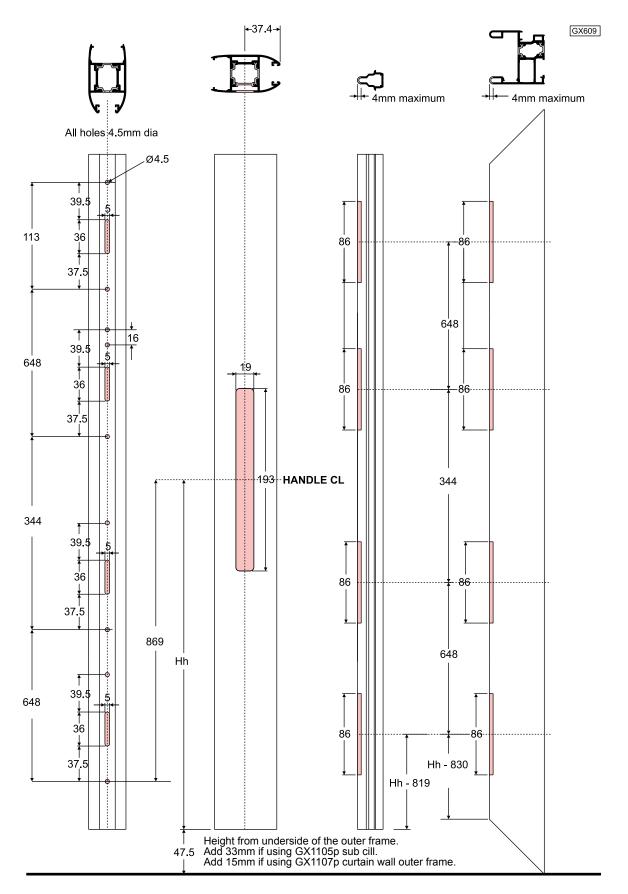
Minimum Leaf Height 1150, Minimum Handle Height 330. If using GX1201p reinforced jamb stile with GX1801 handle, reinforcing must be external.



Height from underside of the outer frame. Add 33mm if using GX1105p sub cill. Add 15mm if using GX1107p curtain wall outer frame.

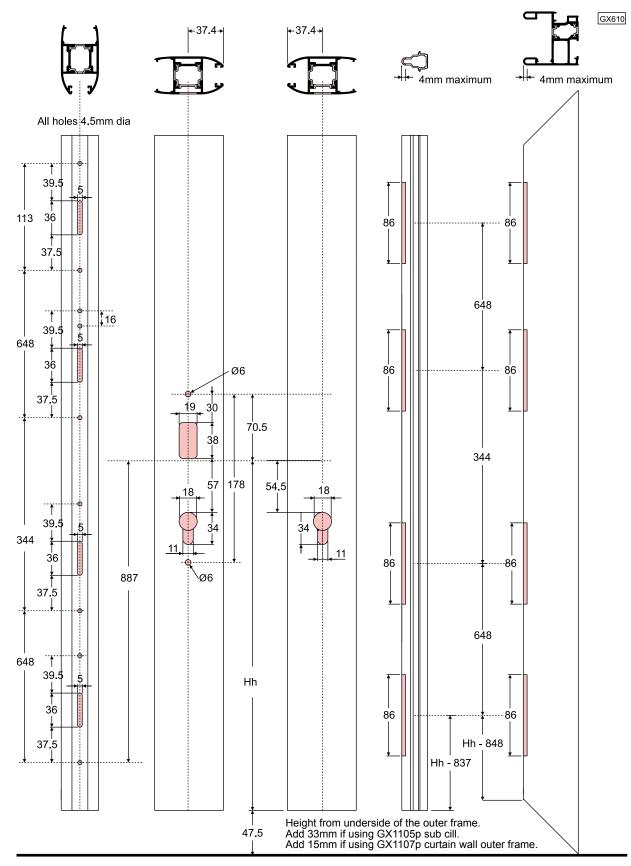
#### GX1807 Lever Lock - GX1816 4 Point Multilock

Minimum Leaf Height 1940, Minimum Handle Height 960.

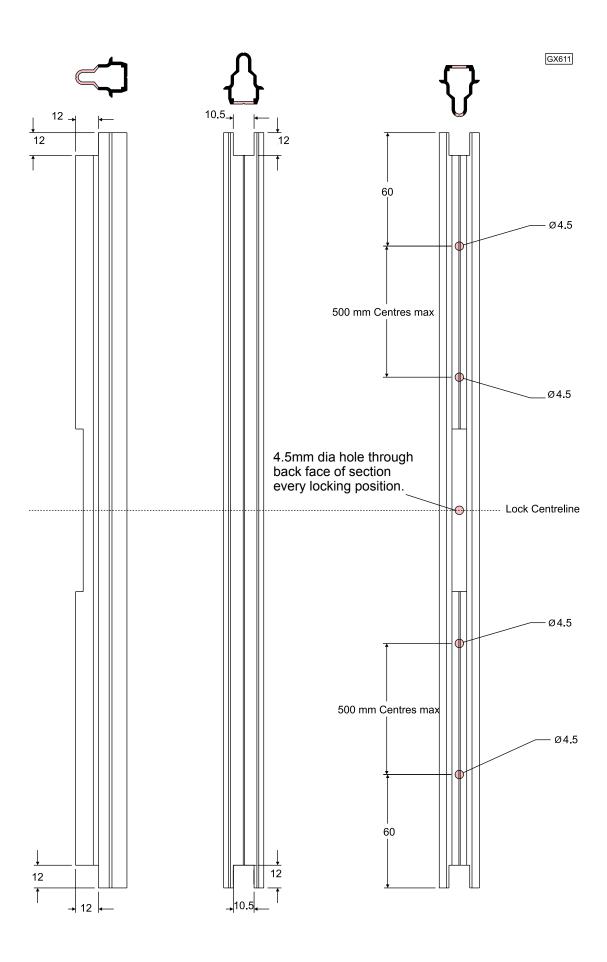


#### GX1801 Multilock Handle - GX1816 4 Point Multilock

Minimum Leaf Height 1940, Minimum Handle Height 960. If using GX1201p reinforced jamb stile with GX1801 handle, reinforcing must be external.

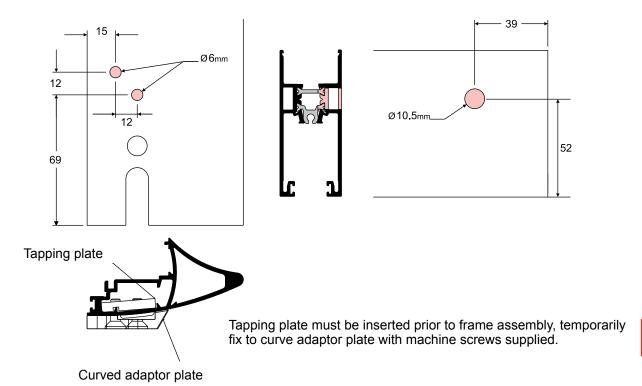


#### **MACHINE FOR GX1230n MEETING STILE ADAPTOR**



#### **MACHINE FOR STOPS & RESTRICTORS**

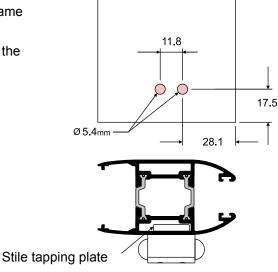
#### **GX1808 Interlock Plunger Lock**



#### **GX1517 Leaf Restrictor**

Stile tapping plate must be inserted prior to frame assembly.

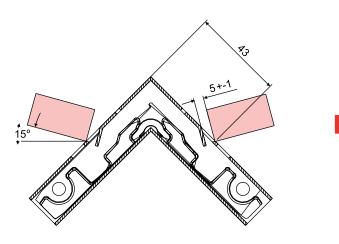
- 1. Drill 2 x no. 5.4mm dia clearance holes in the style, continue through inner web.
- 2. Fix buffer via tapping plate to stile.



#### Note:

GX1517 may only be used where the opening sash is on the internal track.

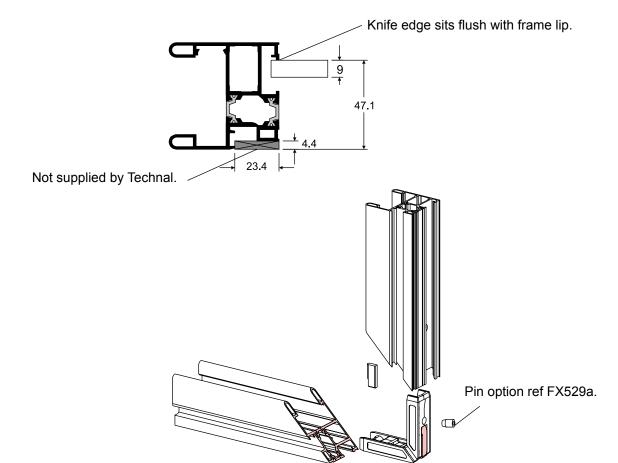
#### **ASSEMBLE FIXED FRAME**



GX701

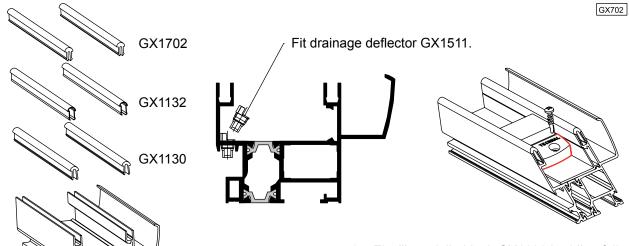
#### Note:

9mm knives must be used so that the cleat expands in the hollow



- 1. Apply FX613g adhesive to the cleat hollow and insert into section.
- 2. Butter mitred end of sction with a low modulus silicone sealant.
- 3. Insert GX1515 track corner alignment block.
- 4. Offer sections together and either pin or crimp ensuring correct alignment each time.

#### TRACK & WOOLPILE BLOCKS



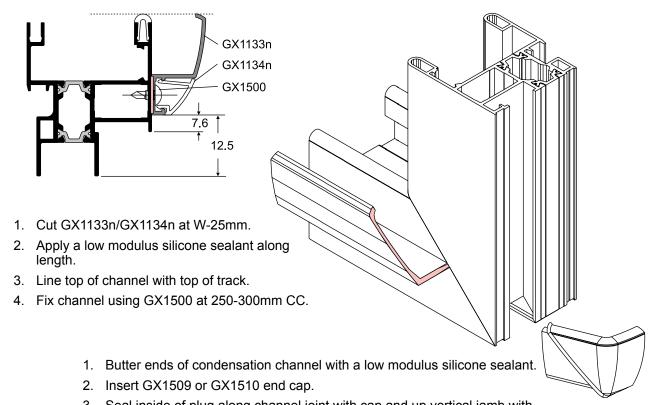
Fit track into outerframe channel.

#### Note:

120 Kg max leaf weight on GX1702 polyamide track. 200 Kg max leaf weight on GX1130 and GX1132. (2.5 Kg x mm thickness of glass x W x H)

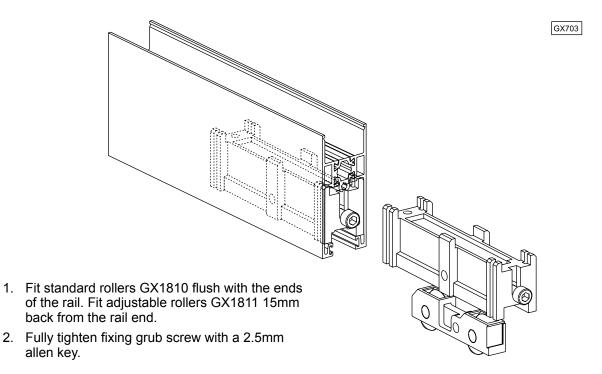
- Fit cill woolpile block GX1608 bedding fully on a low modulus silicone sealant (base and sides). Inject screw hole with a low modulus silicone sealant prior to fitting screw supplied (Self driller, SFS head).
- 2. Inject mastic into central hole to fill void under. Peel backing tape off woolpile and fit.
- 3. Fit head woolpile block without sealant.

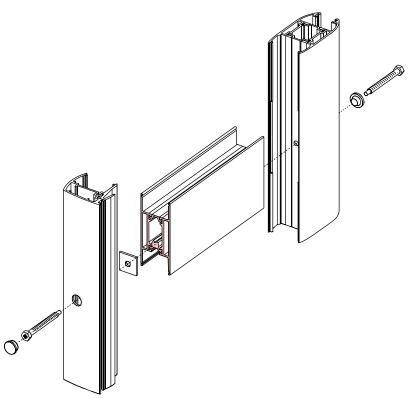
# Condensation Channel GX1133n End Plugs GX1509 & GX1510

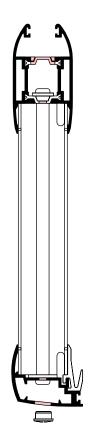


3. Seal inside of plug along channel joint with cap and up vertical jamb with a low modulus silicone sealant.

# **ASSEMBLE LEAF FRAME**

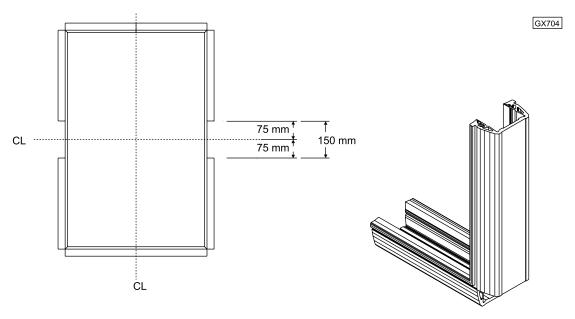




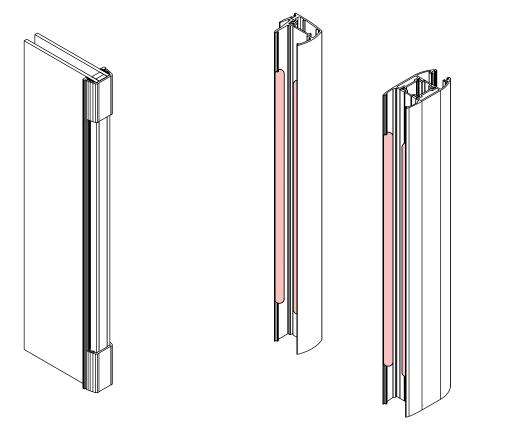


- 1. Butter ends of midrail GX1207p with a low modulus silicone sealant.
- 2. Fit to stiles with GX1514 fixing set and 2 no. GX1501 assembly screws (SFS head).

# **ASSEMBLE LEAF FRAME**



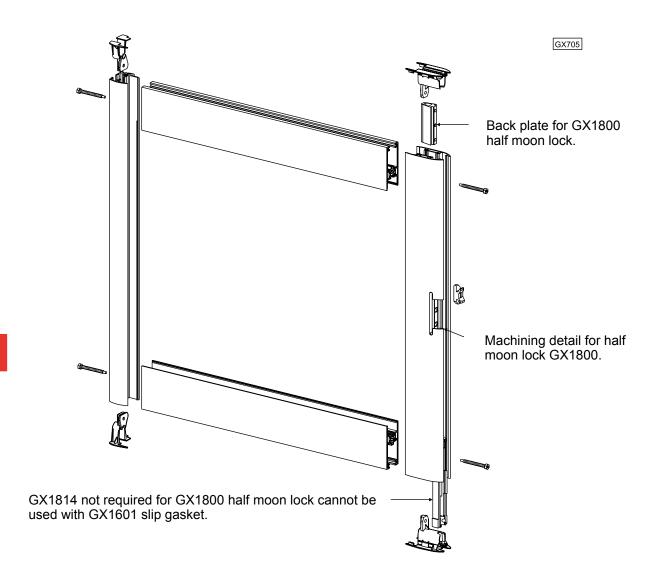
Slit gasket corners to lip and fully seal with a low modulus silicone sealant.



Remove 150mm of gasket on vertical centre line.

Add 150mm bead of low modulus silicone sealant on vertical centre line to all vertical jambs.

## ASSEMBLE LEAF FRAME

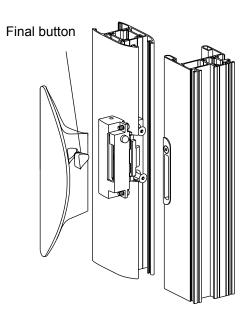


#### To assemble frame.

- 1. Fit brush pile/gasket GX1600 or GX1601 to rails and stiles.
- 2. If fitting half moon lock GX1800 slide back plate into stile slide chamber, tighten grub screw when in position with 2.5mm allen key. Otherwise fit GX1814 (number dependent on lock set).
- 3. Butter stile ends with a low modulus silicone sealant and insert GX1504 and GX1505 stile end plugs ensuring seal.
- 4. Butter rail ends with low modulus silicone sealant and assemble leaf frame with GX1501 assembly screws (SFS head).

# FIT LOCKS & HANDLES

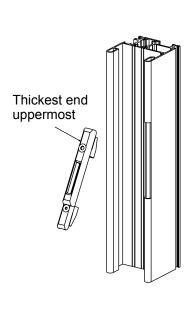
#### **GX1800 Half Moon Semi-Automatic Lock**

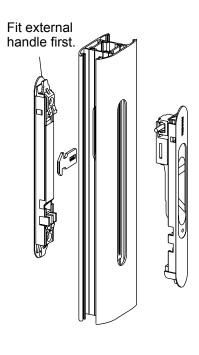


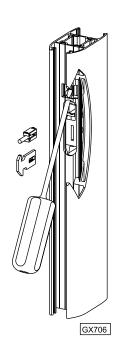
#### To fit half moon handle and lock GX1800

- Fit lock mechanism to stile using 2xM5 screws and a 3mm allen key.
- 2. Fit strike plate onto outer frame using M4 screw and 2.5mm allen key, adjust to suit keep.
- 3. Remove red button from lock with lock in open position.
- 4. Screw handle into position with 2 x M4 screws.
- 5. Fit final button.

# **Keeps & Thumb Pulls**







#### To fit keeps

- 1. Offer top of keep in first and push upwards.
- 2. Offer in bottom of keep and set into position.
- 3. Tighten machine screws.

#### To fit thumb pulls

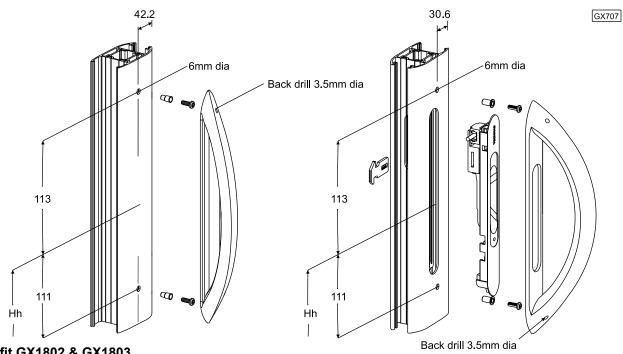
- Offer bottom of handle in first and press down top.
- 2. If using locking handles fit security device.
- 3. Fit bolt and adjust to suit keep.

#### To remove thumb pulls

- 1. Remove security device and bolt.
- 2. Slide lever downwards with a flat head screwdriver.
- 3. Lift out handle top first.

#### FIT LOCKS & HANDLES

# **GX1802 & GX1803 Handles**



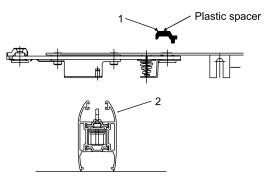
#### To fit GX1802 & GX1803.

- 1. Fit riv-nut to stile.
- Back drill handle.
- 3. Position screws into stile.
- Hook handle over screws.
- Tighten screws with a 2.5mm allen key via back drilled holes.

# **GX1815 & GX1816 Locks**

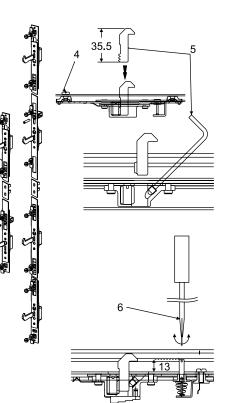
#### Note:

Insert rod prior to assembling frame. Use hook packet marked "GXi".



#### To fit 2 point multilock GX1815 and 4 point multilock GX1816.

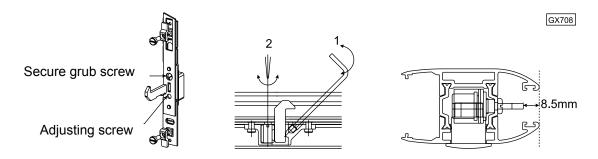
- 1. Clip plastic spacers above and below hook lock.
- 2. Sit stile on a bench resting on the gaskt fins.
- 3. Insert rod into section the right way up (adjusting screw sits below hook slot).
- 4. Insert machine screws and tighten.
- Temporarily fit GXi hooks with 2.5mm allen key into securing grub screw.
- 6. Screw safety device into position to extend 13mm.



#### 7.125

# **FIT LOCKS & HANDLES**

#### GX1815 & GX1816 Locks Continued



#### To position / adjust hook locks

- 1. Release securing grub screw with a 2.5mm allen key.
- 2. Adjust hook projection using a flat screw driver to turn adjusting screw.
- 3. Position hook 8.5mm from section nose, further adjustment may be done on site.
- 4. Tighten securing grub screw.

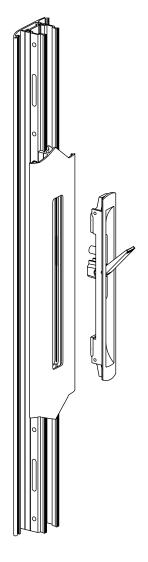
#### Note:

If hook is not positioned at 8.5mm site adjustment will be essential.

#### **GX1807 Lever Lock**

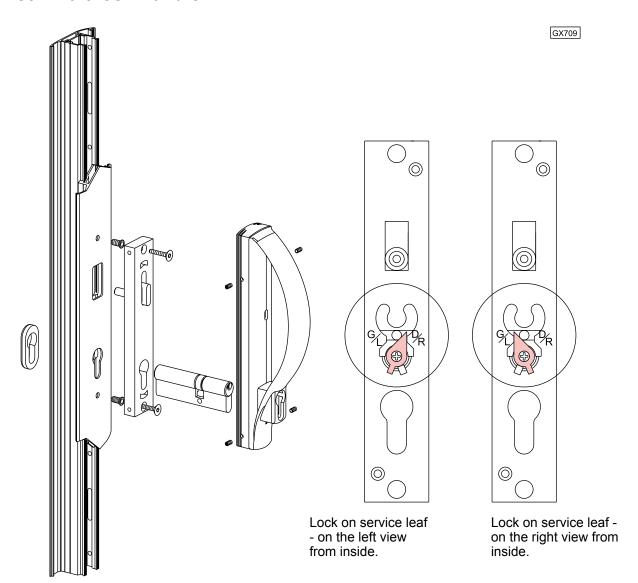
#### To fit lever lock GX1807

- 1. Offer bottom of handle in first and press down top.
- 2. Insert and allow top to spring back.



# **FIT LOCKS & HANDLES**

# **GX1801 Multilock Handle**



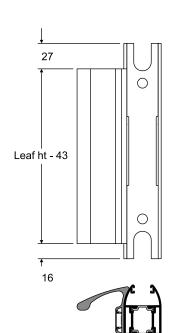
#### To fit lock body

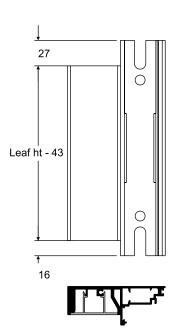
- 1. Fit riv-nuts supplied if using hand tool (for battery tools use riv-nut for M4 length 12mm or longer).
- 2. Fit lock body with machine screws supplied.
- 3. Tighten with allen key.

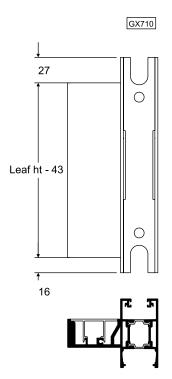
#### To fit handle

- 1. Offer up handle and fix using 4 no. grub screws supplied.
- 2. Tighten with allen key.

# FIT STILE REINFORCEMENT







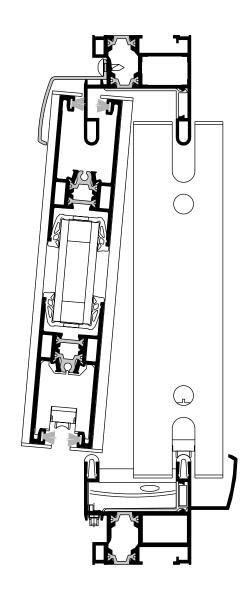
#### To fit reinforcement

- Cut reinforcement and cover plate to Leaf Height - 43mm.
- 2. Fix with No.8 SS pan heads 250-300mm centres.
- 3. Fit cover plate to finish.

#### Note:

CAUTION: Check hardware for suitability on stile faces fitted with reinforcement. Eg. To fit GX1801 handle with reinforcement fitted externally or the same stile the handle should be used internally with a half cylinder.

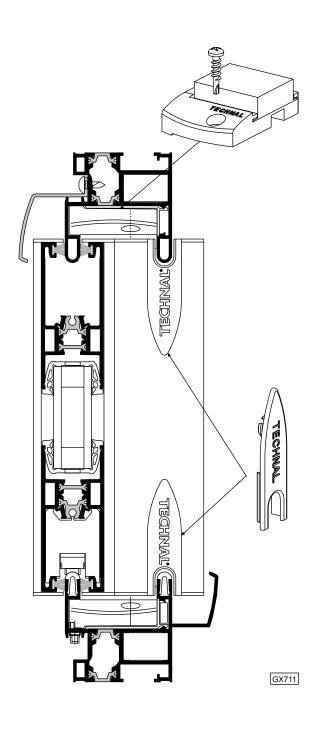
# FIT LEAF INTO OUTER FRAME



#### To fit sashes on track.

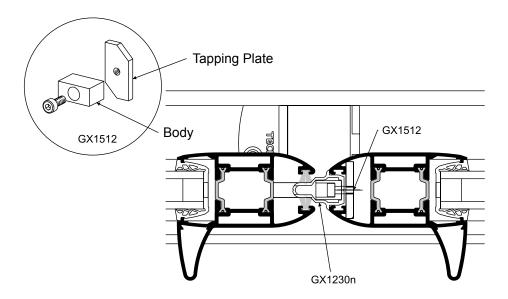
- Ensure head woolpile block and central stile guides are not fitted.
- 2. Offer sash in head first and lift bottom of sash over track.
- 3. Lower sash until the dead load is fully taken by the track.
- 4. If using GX1811 adjustable rollers adjust the position of the sash as necessary.
- 5. Fit central stile guides and head woolpile block.
- 6. Check operation of locks and adjust accordingly.

To remove the door reverse the fitting sequence.



#### 7.145

# FIT GX1230n MEETING STILE ADAPTOR



GX714

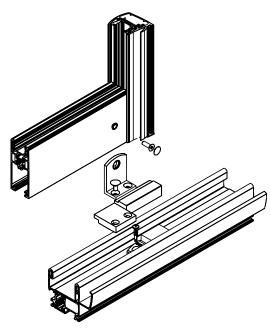
#### To fit GX1230n meeting stile adaptor

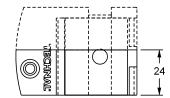
- Slide body of GX1512 with machine screw into hollow of GX1230n.
- 2. Allow screw to drop through 4.5mm dia predrilled holes.
- 3. Offer tapping plate untill engaged do not tighten, plate must be able to rotate.
- 4. Repeat steps 1 to 3 untill all pre drilled holes have a GX1512 fitted.
- 5. Offer up GX1230n to jamb section and tighten screws ensuring that the plate has rotated in the section behind the woolpile groove.

# **FIT STOPS & RESTRICTORS**

# **GX1516 FIXING SET FOR FIXED LEAF**

GX712b





#### To fit GX1516

Caution: Ensure roller is positioned 70mm from the rail end.

GX1516 may only be used where the fixed leaf is on the outside track

- 1. Cut down GX1608 central woolpile block to 24mm
- 2. Bed woolpile block on low modulus silicone sealant and fix with self driller supplied (SFS head) position tight to GX1700 Polyamide cover.
- Bed main body of GX1516 on low modulus silicone sealant and fix using screws provided via the fixing angle.
- 4. Spot through the fixing angle to position fixing hole and drill 7mm dia hole, fit rivnut supplied.
- 5. Fix door leaf using machine screw supplied and finish with screw caps supplied.

#### **GX1517 LEAF RESTRICTOR**

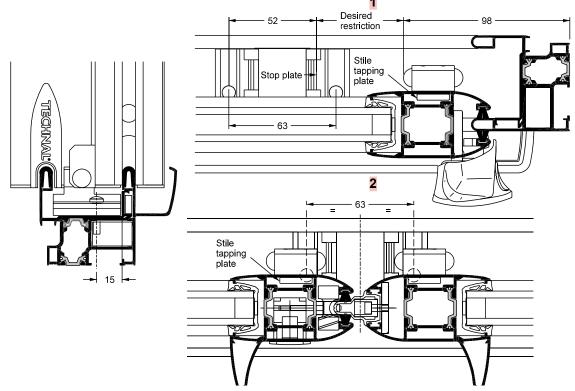
#### **To fit GX1517**

Caution: Stile tapping plate must be inserted prior to frame assembly.

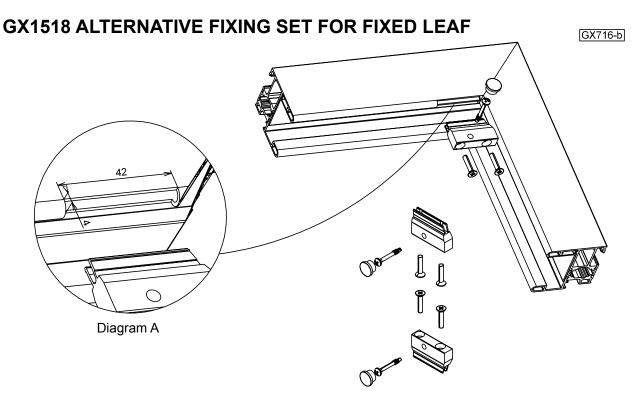
- 1. Establish restricted opening dim and fix stop plate or
- 2. Fix stop plate on the axis of the two jamb stile profiles.

Put low modulus silicone in screws holes before fixing stop plate.

Note: GX1517 may only be used where the opening sash is on the internal track.



# FIT STOPS & RESTRICTORS



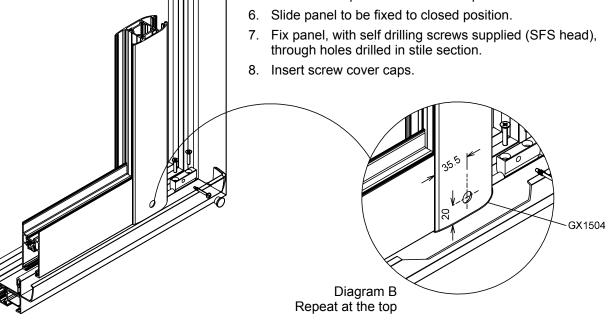
#### To fit GX1518 fixing set

#### Preparation

- 1. Machine a 42 mm x 4 mm slot in the closed track outer frame at the head, before the outer frame is assembled (diagram A).
- 2. Cut down track insert, for outer frame still, by 46 mm.
- On panel to be fixed, drill 4.5 mm dia. clearance hole from inner face of jamb stile, through two walls only. The hole centre positioned on dimensions in diagram B (note 20 mm dimension includes the stile end plug thickness).
- 4. Counter bore hole in outer wall only, to 10 mm dia.

Assembly (to be completed after outer frame has been installed)

5. Insert blocks, of fixing set, into top and bottom outer frame and screw in position with screws provided.



# **FIT STOPS & RESTRICTORS**

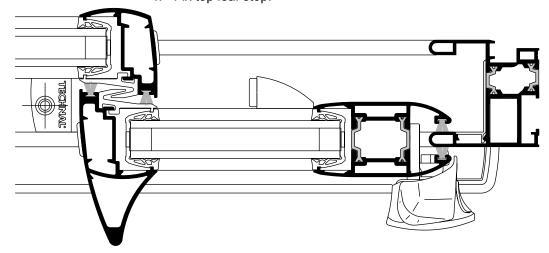
## **GX1513 LEAF STOP**



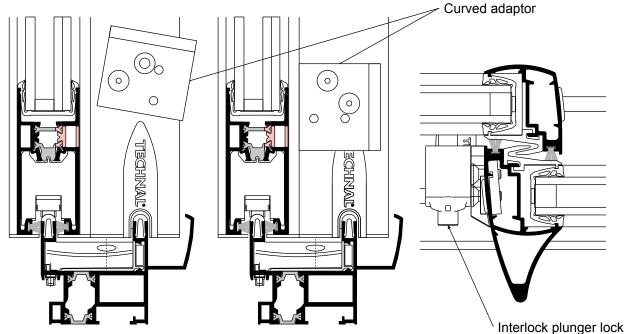
#### To fit GX1513 leaf stop



- 1. Offer up leaf stop to sit fit flush with the underside of the rail.
- 2. Spot through sash stop and drill 3.5 mm dia hole.
- 3. Fix using screw supplied.
- 4. Fix top leaf stop.





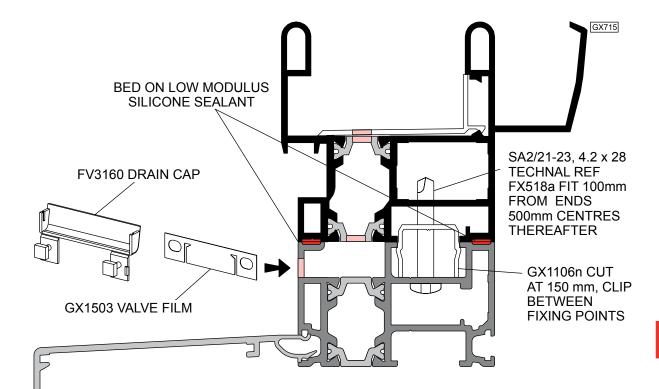


#### To fit GX1808 interlock plunger lock

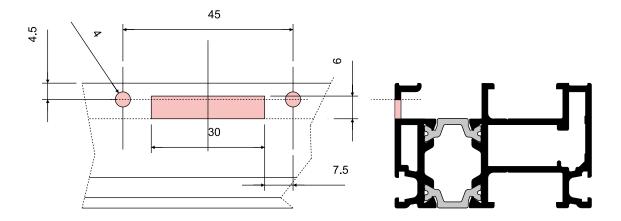
Caution: stile tapping plate must be inserted prior to frame assembly.

- 1. Remove bottom screw, loosen top screw and rotate curved adaptor to fit GX1506.
- 2. Reposition adaptor plate and fix via tapping plate to stile.
- 3. Fix plunger lock to adaptor plate using bolts supplied.

# FITTING GX1105P SUB CILL

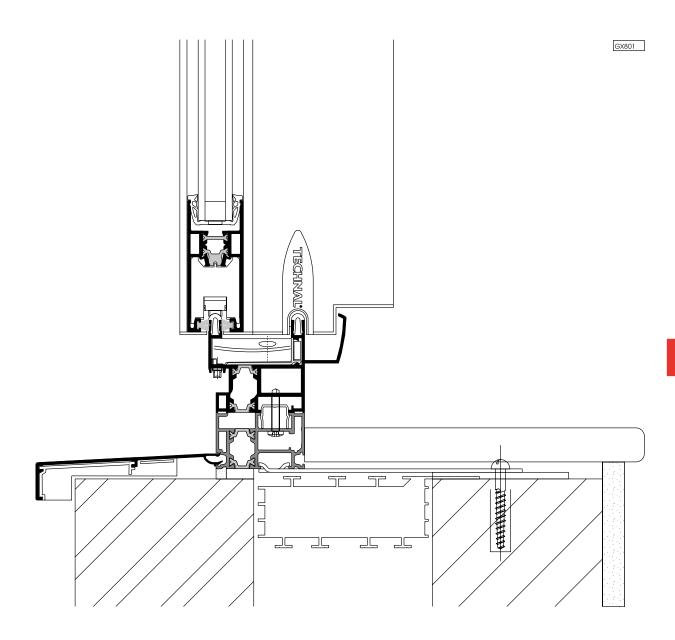


- 1. Clip GX1106n periodically along GX1105p sub-cill.
- 2. Bed outer frame on low modulus silicone sealant to GX1105p sub-cill.
- 3. Screw fix from under with SFS No. 8 screw Technal ref FX518a, via clearance hole through underside.
- 4. Fit GX1607 end seal to end of cill section, fully sealed with low modulus silicone sealant.
- 5. Attach valve film GX1503 to FV3160 drain cap and fit to front drainage slots.
- 6. Add clip in cill plate.

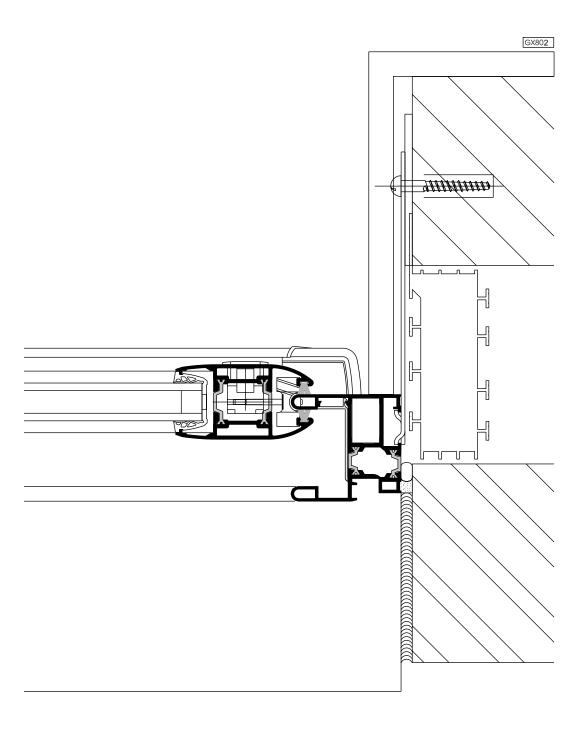




# **TYPICAL PERIMETER DETAILS**



# **TYPICAL PERIMETER DETAILS**



GX1509

GX1511

GX1608

To fit sashes on track

- 1. Ensure head woolpile block and central stile guides are not
- 2. Offer sash in head first and lift bottom of sash over track
- 3. Lower sash untill the dead load is fully taken by the track
- 4. If using GX1811 adjustable rollers adjust the position of the sash as necessary (See chapter 7)
- 5. Fit central stile guides GX1506 to leaf and head woolpile block
- 6. Check operation of locks and adjust accordingly

To remove the door reverse the fitting sequence

To fit GX1516 fixing set for fixed leaf

Caution: Ensure Roller is positioned 70mm from the rail end. GX1516 may only be used where the fixed leaf is on the outside

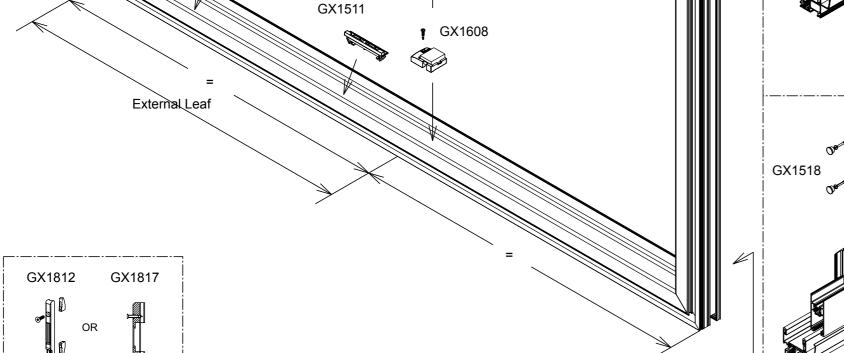
- 1. Cut down GX1608 central woolpile block to 24mm.
- 2. Bed wooplpile block on low modulus silicone sealant and fix with self driller supplied (SFS head) position tight to GX1700 Polyamide cover.
- 3. Bed main body of GX1516 on low modulus silicone sealant and fix using screws provided via the fixing angle.
- Spot through the fixing angle to position fixing hole and drill 7mm dia hole, fit rivnut supplied.
- 5. Fix door leaf using machine screw supplied and finish with screw caps supplied.

To fit GX1518 fixing set for fixed leaf

- 1. The closed track outer frame on the top will be machined to 42 x 4 mm deep before the fixed frame is assembled.
- 2. The auxiliary track on the bottom will be cut short for the body of the fixing block.
- 3. Put GX1518 bodys in the cut out see no.1 on the top and on the bottom and fix with screws.
- 4. Close the leaf.
- 5. Drill 10mm dia hole in first wall of the leaf.
- 6. Fix the leaf using self drillers supplied (SFS head).
- 7. Finish with screw caps.

GX1506 GX1608 GX1609 3 TRACKS 2 TRACKS

GX1516



GX803

8.015

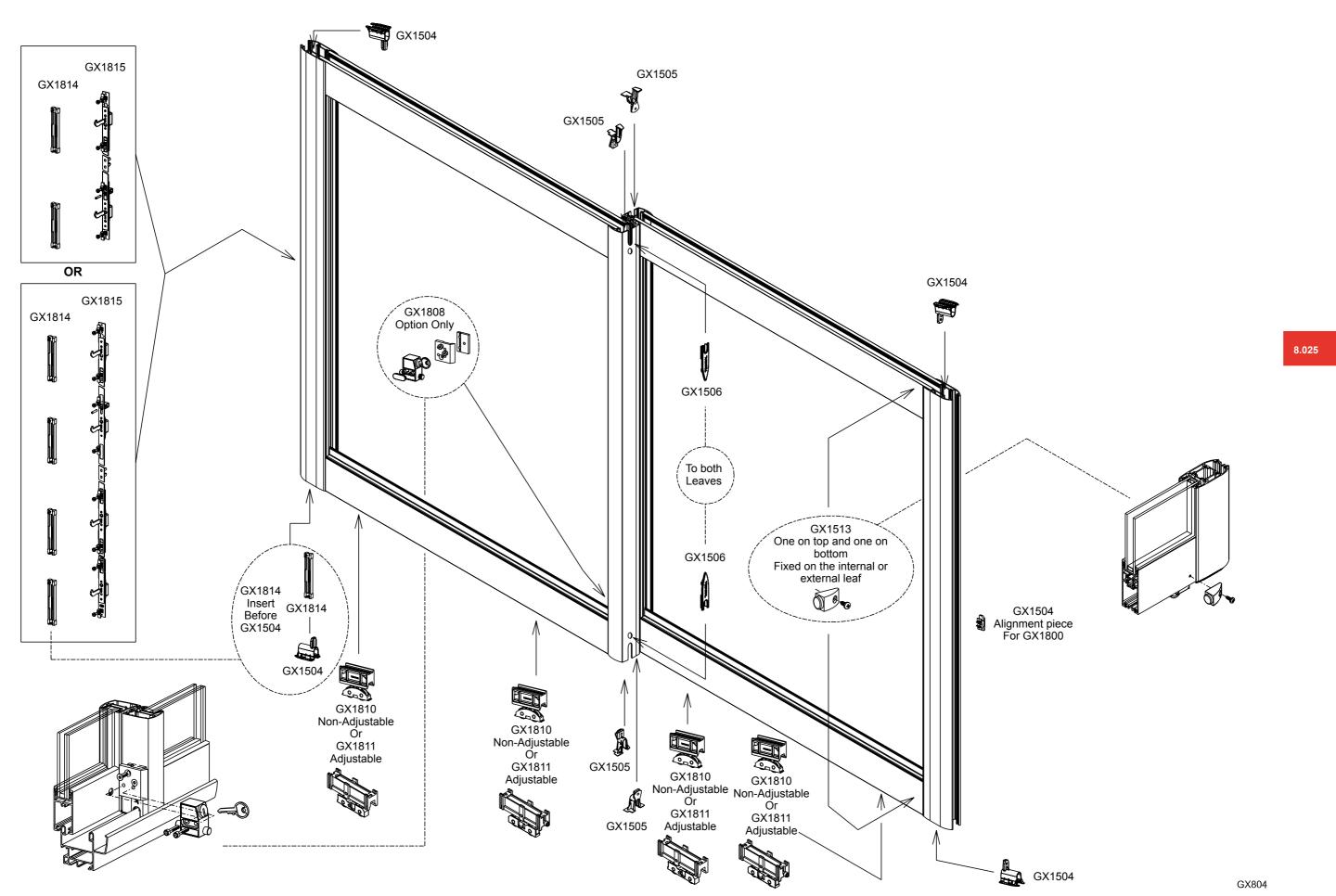
Standard

Closed Tracks Open Tracks

Option

GX1812

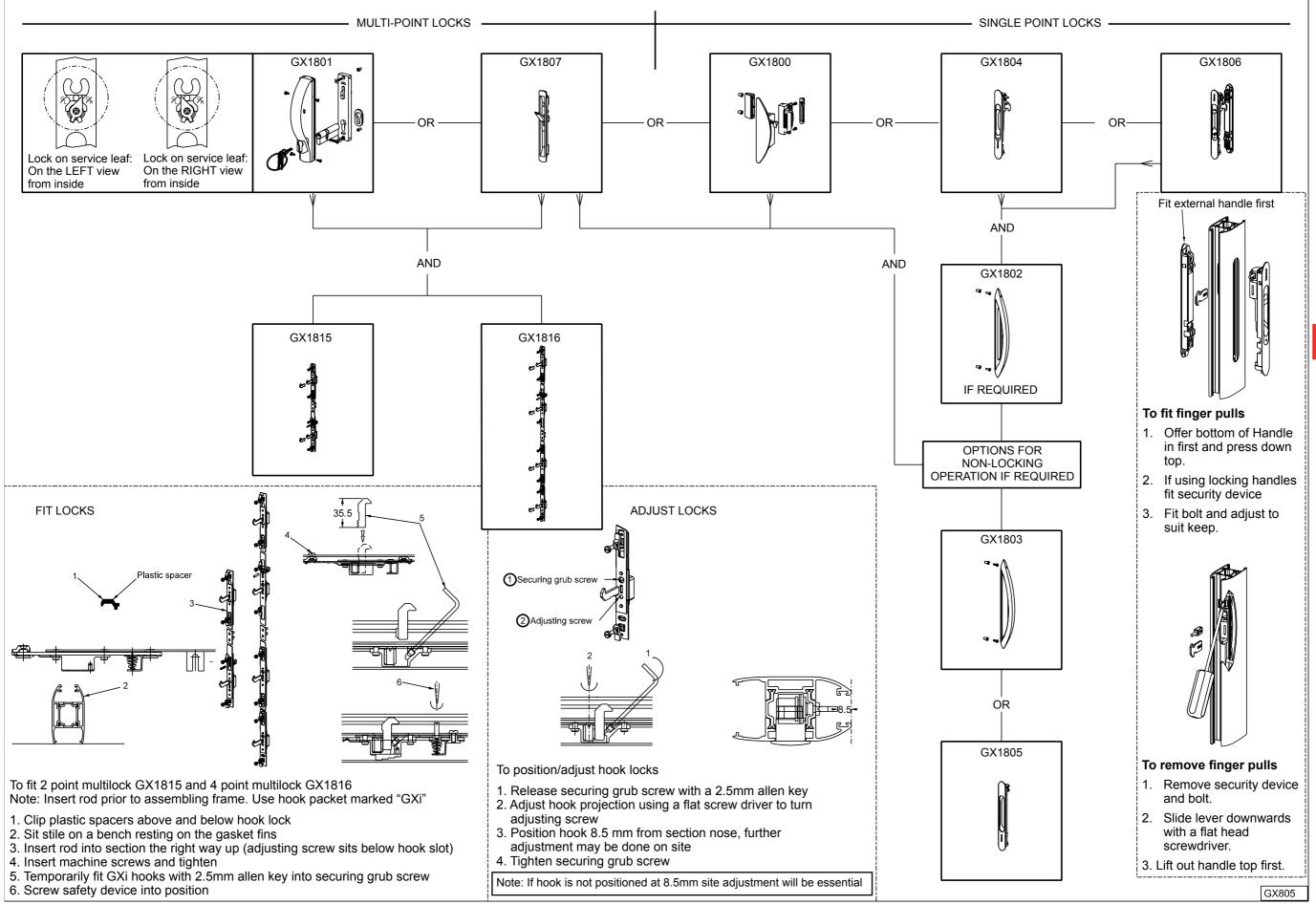
# **ACCESSORIES EXAMPLE FOR LEAF**



8.025

**TECHNAL®** 

8.035





# HORIZONTAL SLIDER GXI

INTRODUCTION

	6 Loof 2 Trooks Loft and Bight On External Trook	5.055
	6 Leaf, 3 Tracks - Left and Right On External Track GX1207p Mid Rail - GX1105p Sub Cill	5.065
	Curtain Wall Insert Deductions	5.005
	Curtain Wan insert Deductions	5.075
6	TOOLING	
	Perfopack <sup>®</sup> Punching Tools	
	GX1001t, GX1002t, GX1003t, FX004t, FX019t, FX023t	6.005
	GX1001t Perfopack® Punching Tools	6.010
	GX1002t Perfopack® Punching Tools	6.025
	GX1003t Router Template Instructions	6.045
	extraor remplate mediations	0.010
7	MACHINING & ASSEMBLY	
	GX1700 Preparation Machine Track Ends	
	GX1700 Preparation, Machine Track	7.005
	Key to detail used in Outer Frame Drainage	7.010
	Outer Frame Drainage	
	2 Leaf - Left Hand Leaf On External Track	7.020
	3 Leaf - Central Leaf On External Track	7.020
	3 Leaf - Left Hand Leaf On External Track	7.025
	4 Leaf - Outer Leaves On External Track	7.025 7.030
	3 Leaf, 3 Tracks - Left Hand Leaf on External Track 6 Leaf, 3 Tracks - Left & Right Hand Leaves on External Track	7.030
	Alternative Drainage For GX1105p & GX1107p	7.040
	Stile Preparation	
	End Preparation and For Intermediate Transom	7.045
	Rail Preparation	
	Drainage For Bottom Rail, Drainage For Transom	7.050
	Machine For Locks & Handles	
	GX1800 Half Moon Semi-Automatic Lock,	
	GX1804, GX1105, GX1806	7.055
	Machine For Hardware	
	GX1807 Lever Lock With GX1815 - 2 Point Multilock	7.060
	GX1801 Multilock Handle - GX1807 2 Point Lock	7.065
	GX1807 Lever Lock - GX1816 4 Point Multilock	7.070
	GX1801 Multilock Handle - GX1816 4 Point Multilock	7.075
	Machine For GX1230n Meeting Stile Adaptor	7.080
	Machine For Stops & Restrictors	
	GX1808 Interlock Plunger Lock, GX1517 Leaf Restrictor	7.085
	Assemble Fixed Frame	7.090
	Track & Woolpile Blocks	7.095
	Condensation Channel GX1133n End Plugs GX1509 & GX1510	7.095
	Assemble Leaf Frame	7.100
	Fit Locks & Handles	
	GX1800 Half Moon Semi Automatic Lock, Keeps & Thumb Pulls	7.115
	GX1802 & GX1803 Handles, GX1815 & GX1816 Locks	7.120
	GX1815 & GX1816 Locks, GX1807 Lever Lock GX1801 Multilock Handle	7.125
		7.130
	Fit Stile Reinforcement	7.135
	Fit Leaf Into Outer Frame	7.140
	Fit GX1230n Meeting Stile Adaptor	7.145

# Fit Stops & Restrictors GX1516 Fixing Set for Fixed Leaf, GX1517 Leaf Restrictor GX1518 Alternative Fixing Set for Fixed Leaf GX1513 Leaf Stop, GX1808 Interlock Plunger Lock 7.160 Fitting GX1105p Sub Cill 7.165

#### 8 SITE INSTALLATION

Typical Perimeter Details	8.005
Accessories Example for Outer Frame	8.015
Accessories Example for Leaf	8.025
Lock Options and Adjustments	8.035

#### NOTE

The information in this manual presupposes an advanced level of knowledge in the user in the cutting, assembly and installation of aluminium components and related materials. This information should therefore not be taken as a complete instruction guide in these matters.

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