PRODUCT MANUAL June 2018





A product of

LEGAL DISCLAIMER

EAVY DUTY TILT AND SLIDE D

General Documentation Disclaimer

This manual is intended as a manufacturing and installation advisory document. For correct specifications, sizing of profiles and structural information please consult the StarFront Application. If the information you require is not available through the StarFront Application, please contact your stockist before proceeding. It is advisable to have all sizing and performance criteria checked by a qualified structural engineer to ensure that the required criteria will be met.

All information, recommendations or advice contained in this documentation is given in good faith to the best of Wispeco'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 Wispeco, such use is within the exclusive responsibility of the user. Wispeco cannot be held responsible for any loss incurred through incorrect or faulty use of this documentation. Training of Wispeco systems is important for ensuring correct procedures in the manufacturing of products.

Great care has been taken to ensure that the information provided is correct.

Ensure that you have the latest available manual. The revision number and date can be checked on the latest StarFront version.

Wispeco will accept no responsibility for any errors and/or omissions, which may have inadvertently occurred.

Specifications concerning products and applications

This manual is based on standard configurations only. As there are many configurations not covered in this manual, contact your stockist with regards to a configuration not represented herein if required.

AutoDesk drawings (CAD Symbol Library) are available on request and can be issued with the consent of the Wispeco Technical Department.

All mechanical joints must be sealed with a **Crealco approved joint sealer**. Failure to correctly seal the joints can affect the performance of the system. Information on joint sealing can be found in the Cleaning & Maintenance Manual available for download from the Wispeco website or from StarFront.

All drawings in the Wispeco Documentation are NOT to scale and are used for illustrative purposes only.

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

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.

For the coastal regions and any other high corrosion areas, the following is advised: to minimize phylliform corrosion use SurTec650 RTU spray during the manufacturing of aluminium profile systems. This should be applied, before assembly, on all pre-work aluminium where the powder coating covering has been removed thereby exposing the raw aluminium base.

The use of non-specified hardware or incorrect mechanical fasteners can adversly affect the mechanical and weathering performance of the system and we strongly advise against deviations. A Wispeco Consultant can advise you of any hardware issues and limitations with regard to this system.

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

Fixing lugs on frames must be positioned as per the user manual and used in accordance to the AAMSA specifications. When profiles are screwed together the screw centres must also be according to the user manual or as specified by an engineer.

All glass used within Wispeco products must comply with SAGGA regulations. Laminated glass must not stand in water.

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

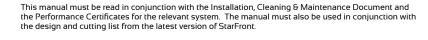


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HEAVY DUTY TILT AND SLIDE DOOR

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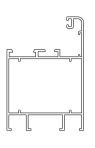


SERENETM HEAVY DUTY TILT AND SLIDE DOOR

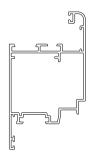
PRODUCT MANUAL

Profile Identification

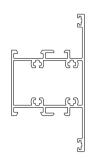
Serene T&S Window Profiles



Frame 52mm DIE No. W55750 Tilt & Slide



Sash DIE No. W55255



DIE No. W55247

Mullion 44mm Flat



DIE No. W29131

Locking Bar



Midrail DIE No. W55481



DIE No. W31263

Drip Rail



DIE No. WOO34C Flat Bar



DIE No. W31271

Bead Square



DIE No. W31273

Bead Square 27mm



DIE No. W31265

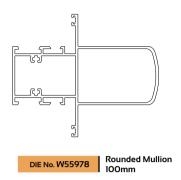
Bead D/Glazing Square

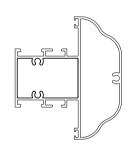
* - NON STOCK ITEM



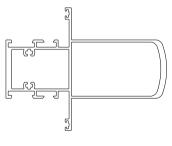
Profile Identification

Serene T&S Window Profiles

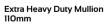


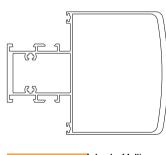


Decorative Mullion 73mm



DIE No. W56704





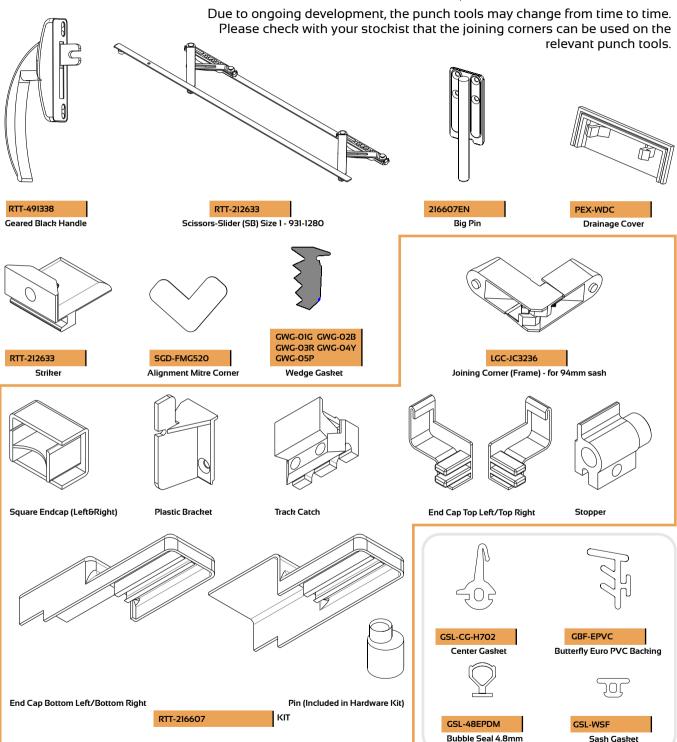




Hardware Components

RECOMMENDED SERENE T&S COMPONENTS

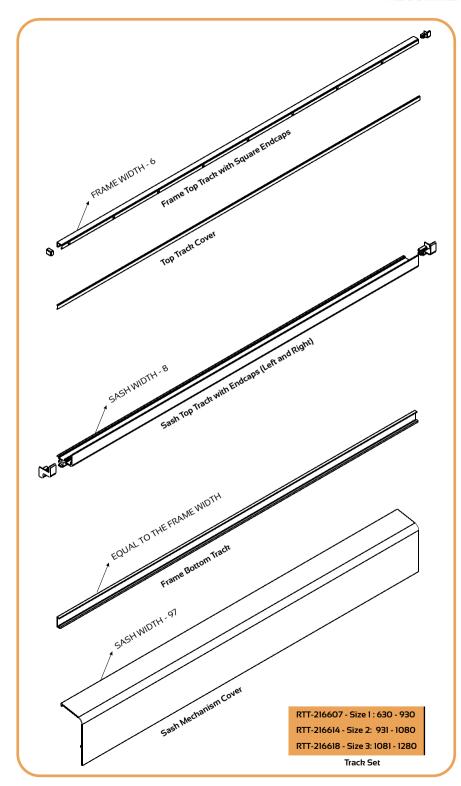
All hardware is available through our Stockists as well as through Crealco Components, and can be viewed on www.crealco-components.com

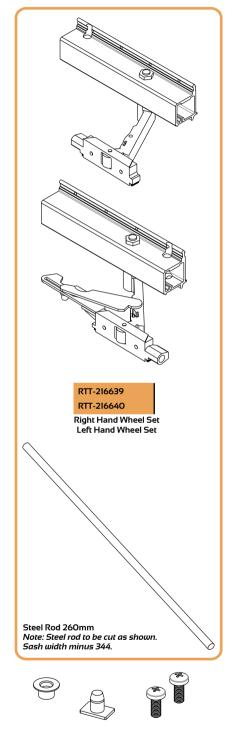




Hardware Components

RECOMMENDED SERENE T&S COMPONENTS



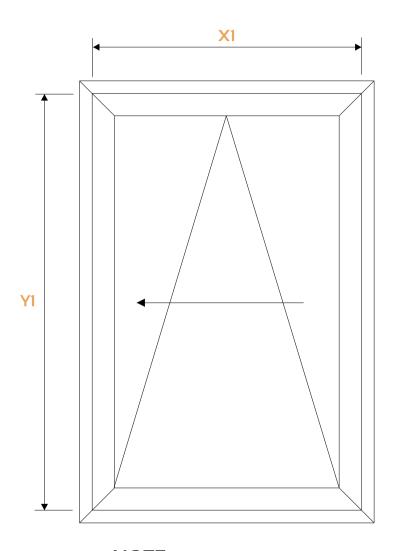


RTT-490535

Connector Set



Size Limitation Guide



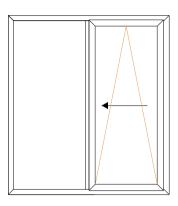
NOTE:

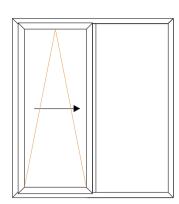
WINDOW AND DOOR LIMITATIONS MAXIMUM SASH WIDTH: XI = 1680mm MINIMUM SASH WIDTH: XI = 630mm

MAXIMUM SASH HEIGHT: YI = 2330mm MINIMUM SASH HEIGHT: YI = 930mm



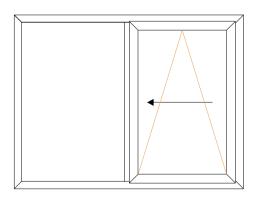
Typical Configurations

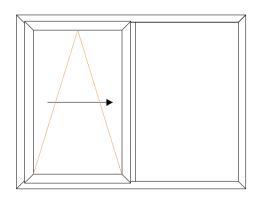




SINGLE TILT & SLIDE DOOR

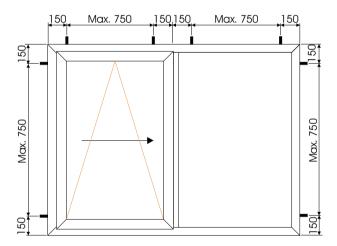
NOTE: DOORS CAN ALSO HAVE 1,2 OR 3 MIDRAILS





SINGLE TILT & SLIDE WINDOW

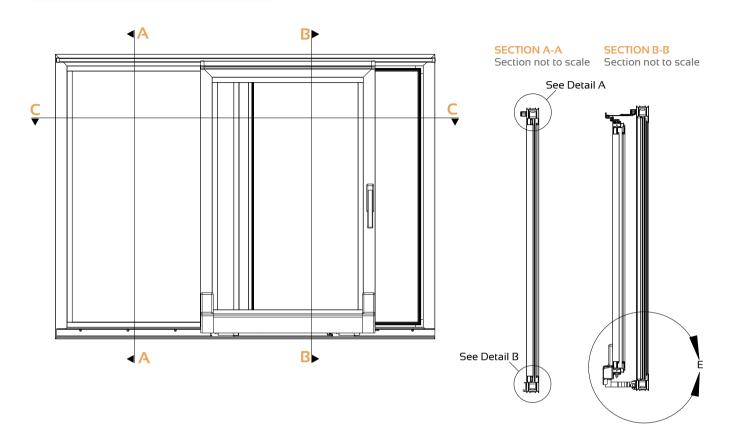




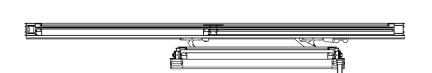
TILT & SLIDE WINDOW



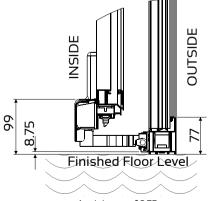
Cross Sectional Detail



SECTION C-C
Section not to scale



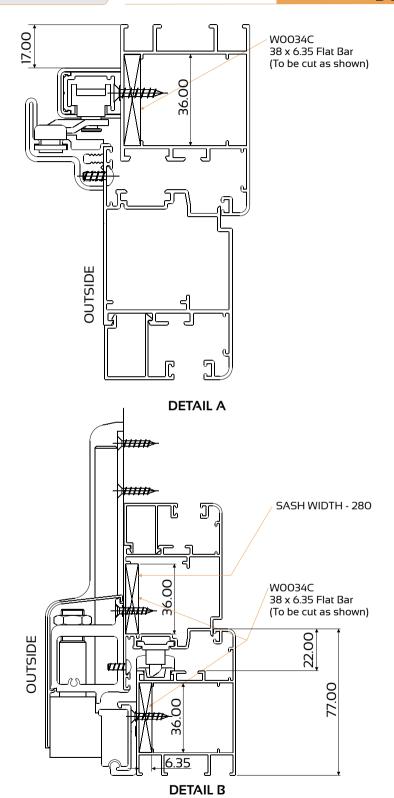
SECTION E-E
Section not to scale



A minimum of 8.75mm clearance is required from finished floor level



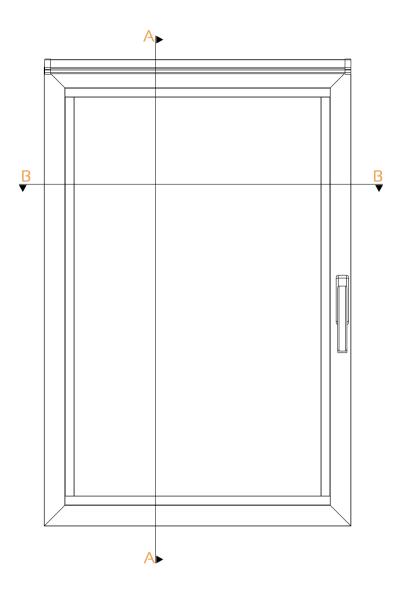
Detail A & Detail B



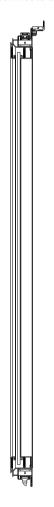


Cross Sectional Detail

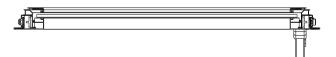
Sash



SECTION A-A
Section not to scale



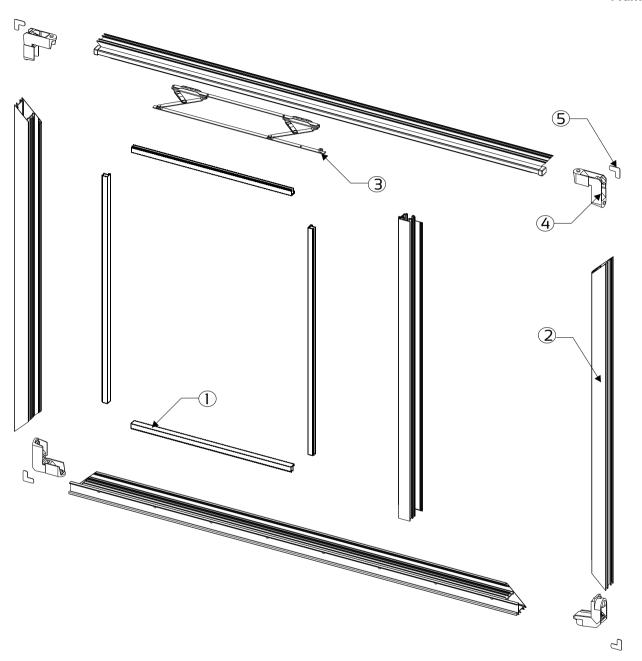
SECTION B-BSection not to scale





Exploded View

Frame



System Profiles

ITEMQTYDIE No.DESCRIPTION14W31271Bead 13mm Square22W55750Frame 52mm Tilt & Slide

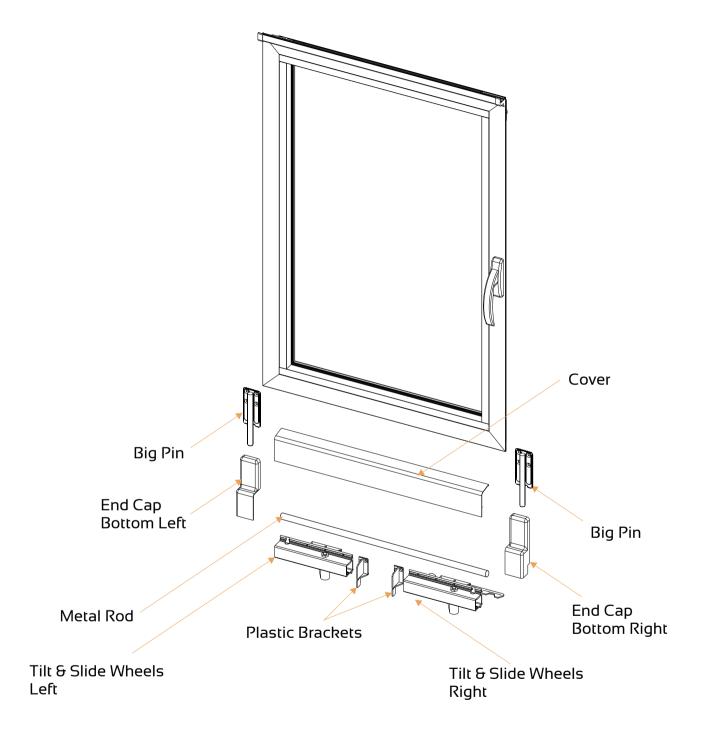
Hardware

ITEM	QTY	COMPONENT DESCRIPTION			
3	1	Scissor Slider			
4	4	Joining Corner			
5	4	Alignment Mitre Corner			



Exploded View

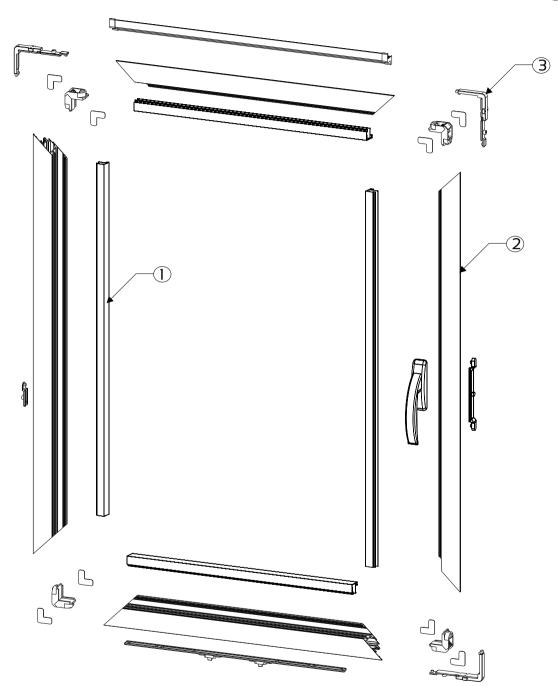
Frame





Exploded View

Sash

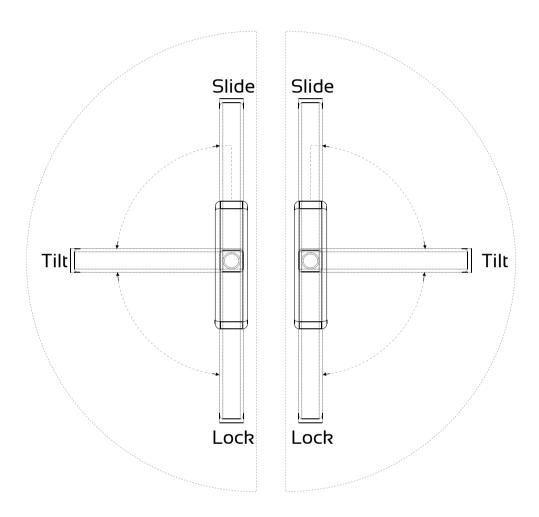


System Profiles

Hardware

ITEM	QTY	DIE No.	DESCRIPTION	ITEM	QTY	COMPONENT DESCRIPTION
1	4	W31271	Bead 13mm Square	3	4	Joining Corner Cup Type
2	2	W55255	Frame 52mm Tilt & Slide			



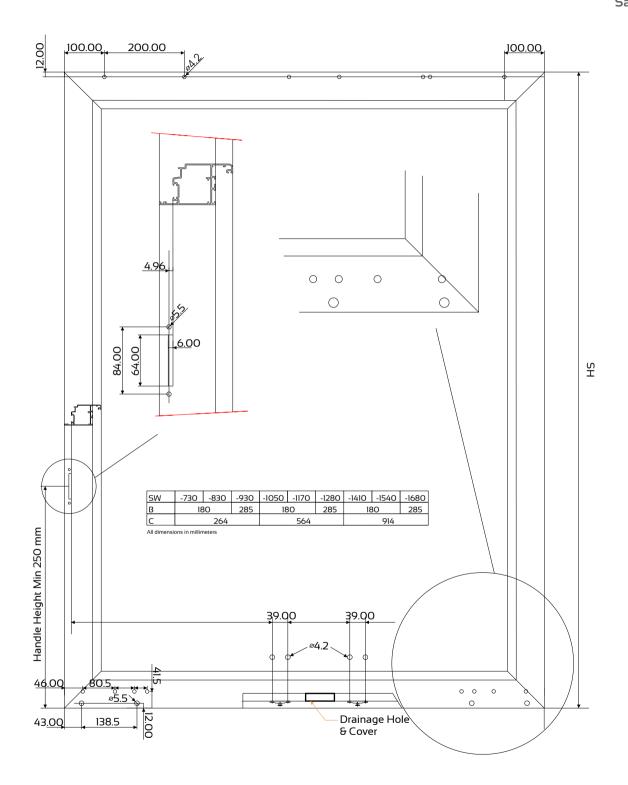


TRANSPARENT STICKERS AVAILABLE



Hardware Detail

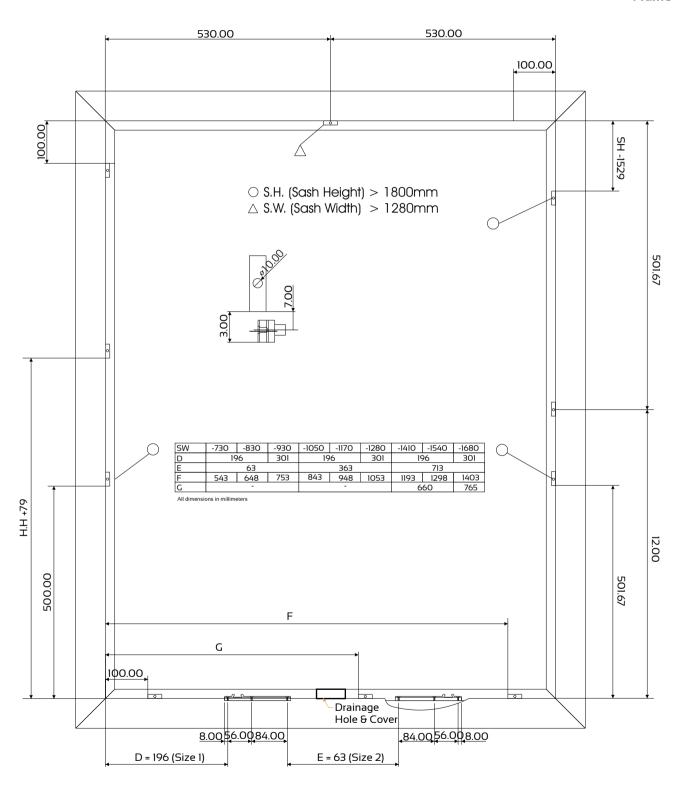
Sash





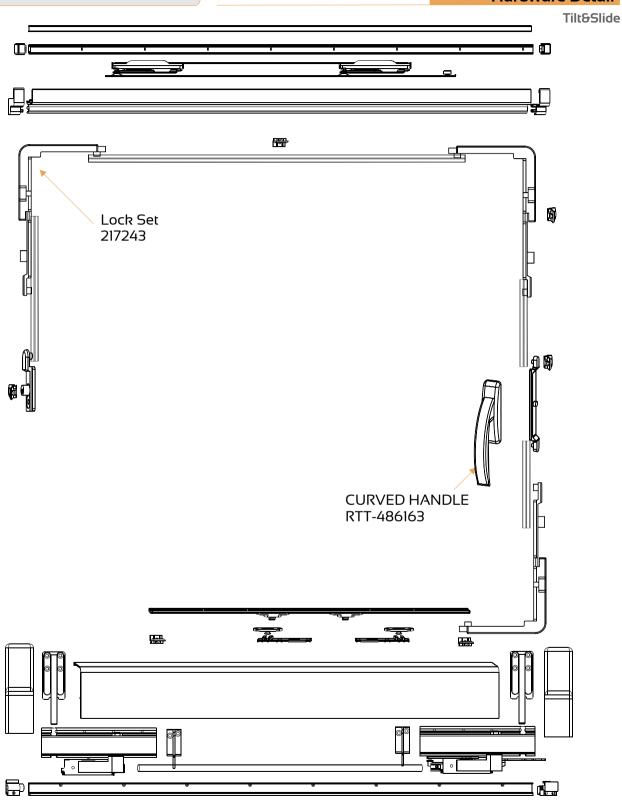
Hardware Detail

Frame





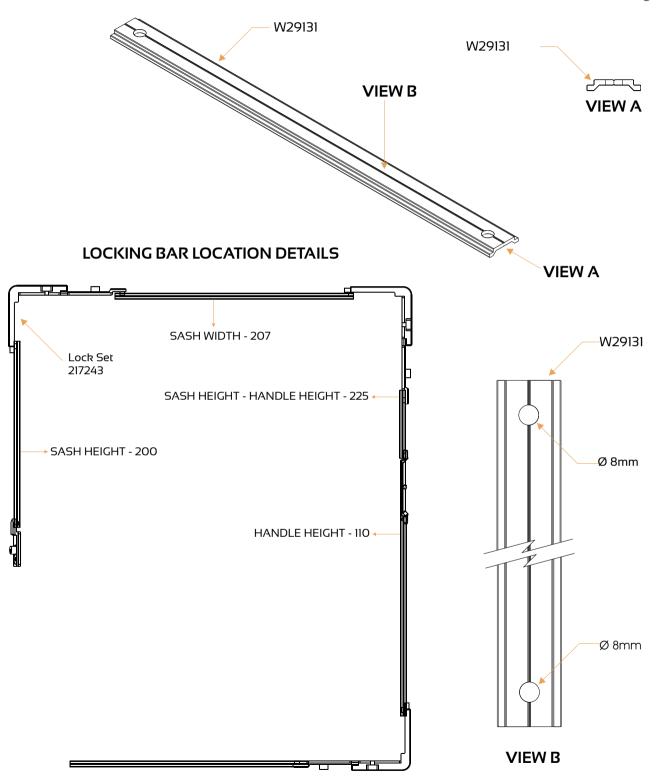
Hardware Detail





Machining Detail

Locking Bar





Perforator for Opening System

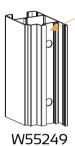
A: Handle Perforation



B: Punching for Corner Joint - LGC-JCC



D: Punching for Ø11mm holes for Cross Connector and W55252

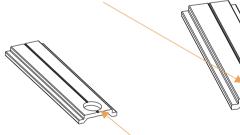


W55255

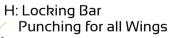


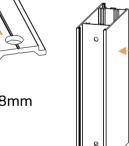
W55247





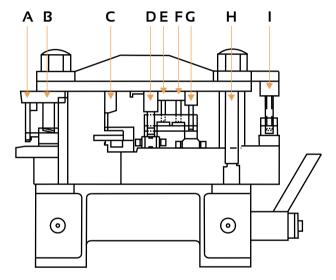
F: Locking Bar Hole Ø8mm

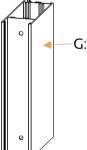




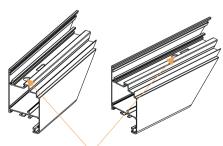
C: Punching for Water Drainage Hole







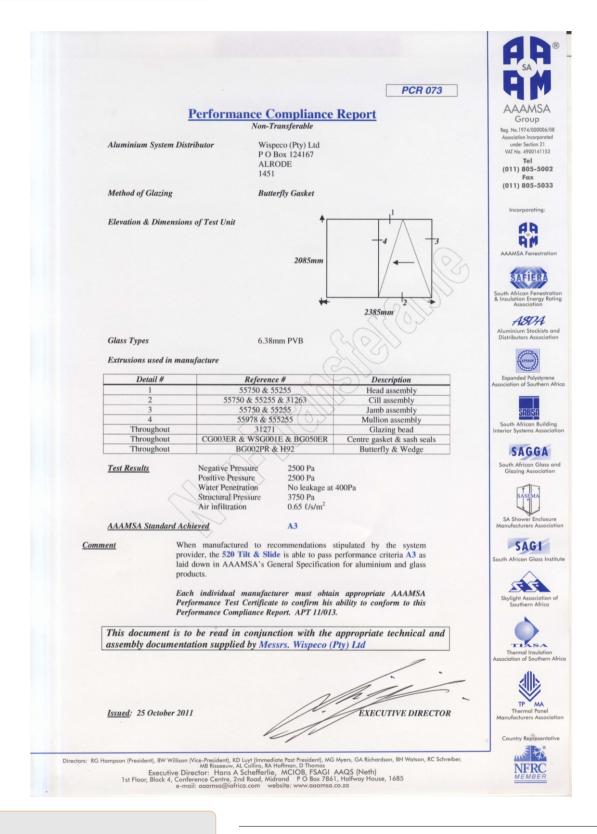
G: Punching for Ø6mm Holes for W55252



I: Perforation for Corner Joint LGC-JC3217 and LGC-JC3236



Performance Report





GLAZING

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.

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

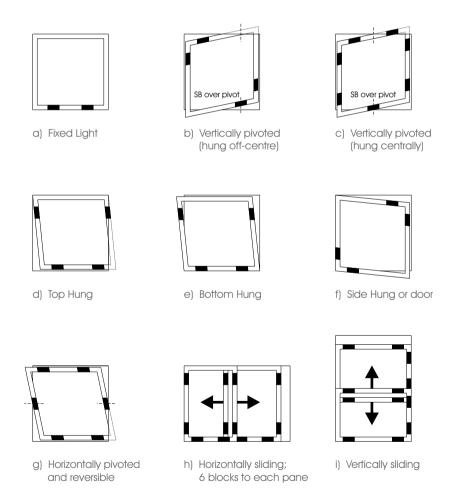


FIGURE 2 - POSITION OF SETTING AND LOCATION BLOCKS

