



PRODUCTMANUAL

REV. 1.2 Oct. 2016

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SLIDING FOLDING SHUTTERS

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LEGAL DISCAIMER

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 procuderes 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.

This Guide may be reproduced in whole or in part in any form or by any means provided the reproduction or transmission acknowledges the origin, revision number and copyright date.

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 & Mainanace Manual available for download from the Wispeco website or from Starfront.

All drawings in the Wispeco Documentation are shown 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.

The use of non-specified hardware or incorrect mechanisal 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 AAAMSA specifications. When profiles are screwed together the screw centers 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.

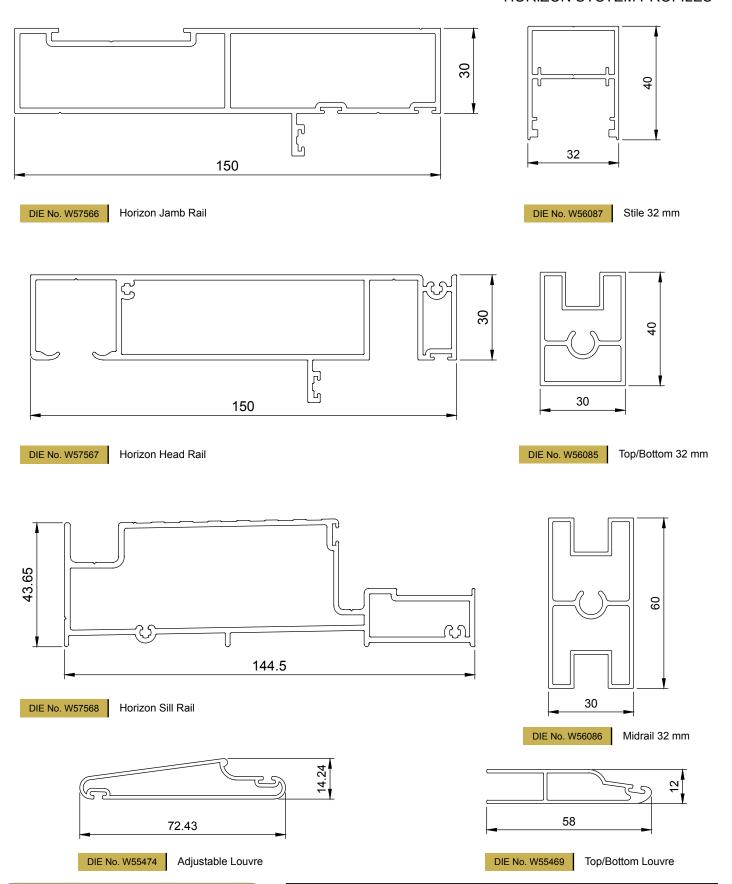
By continuing to use this documentation you acknowledge that you understand and accept the legal disclaimer.





PROFILE IDENTIFICATION

HORIZON SYSTEM PROFILES

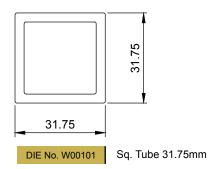


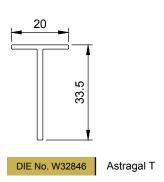


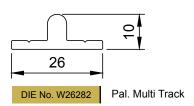


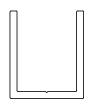
PROFILE IDENTIFICATION

HORIZON SYSTEM PROFILES





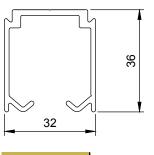




Note: This profile is also to be used with the Hillaldam Track.

DIE No. W26152

Channel 21 x 25 x 2.5



Note: This profile is also available from Hillaldam, & is to be used for stand alone Horizon Shutter screens or for adding to other systems like the Vista Fold doors. The cutting list when using this profile is not available on Starfront, refer to this manual for cutting formulas.(See Page 20-22) Be sure to specify the correct power coating code when placing orders.

CODE: LVH-TK3M

3 m Channel

CODE: LVH-TK6M

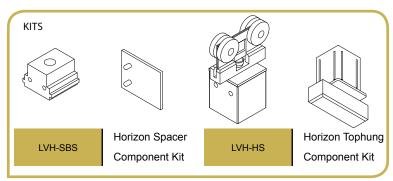
6 m Channel



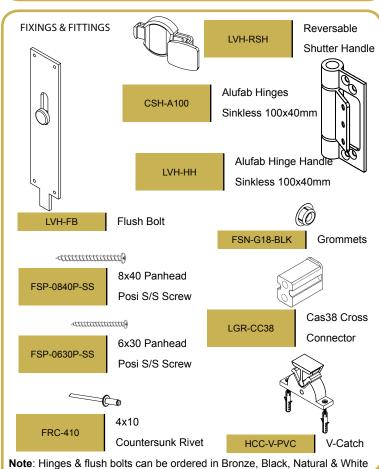


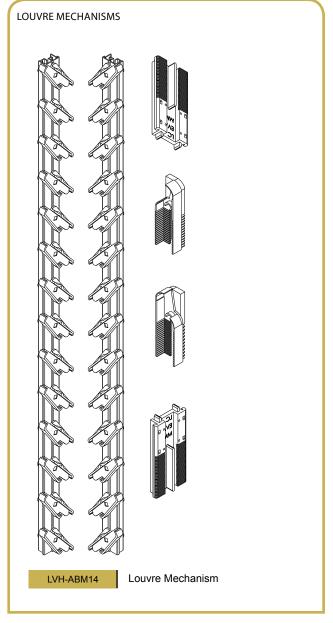
HARDWARE IDENTIFICATION

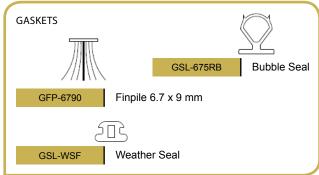
COMPONENTS







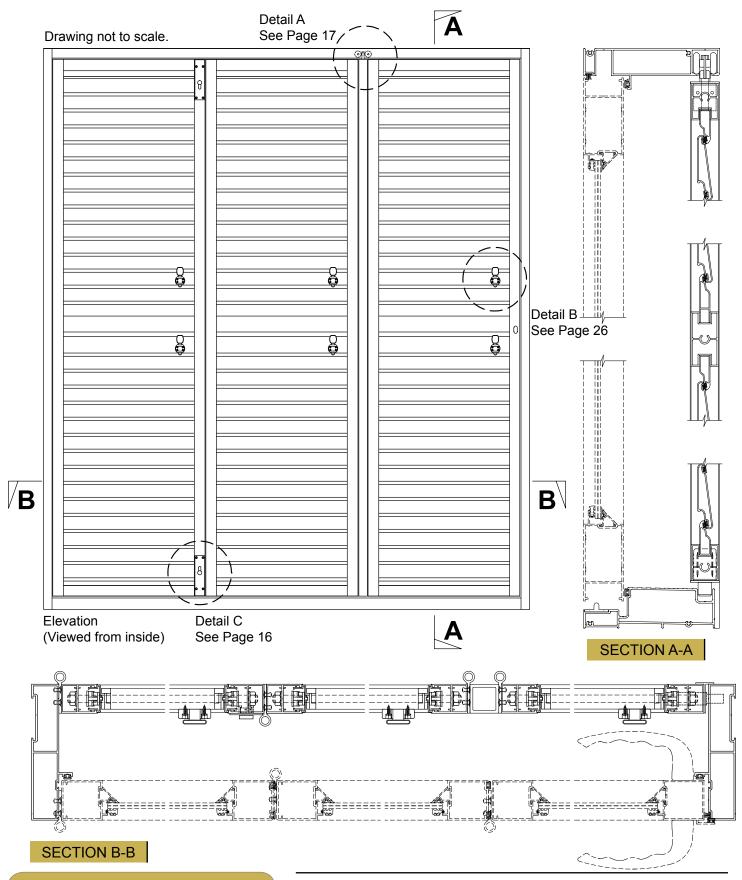








CROSS SECTIONAL DETAIL & ELEVATION

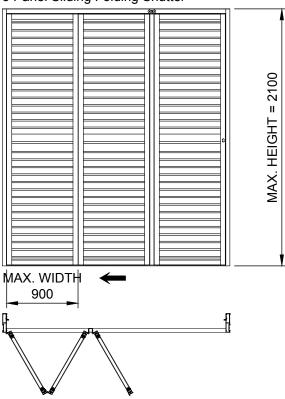




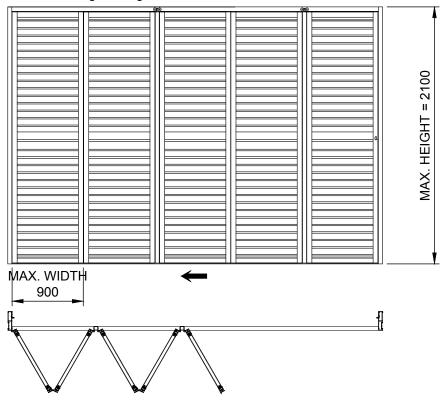


CONFIGURATIONS & SIZE LIMITATIONS

3 Panel Sliding Folding Shutter



5 Panel Sliding Folding Shutter

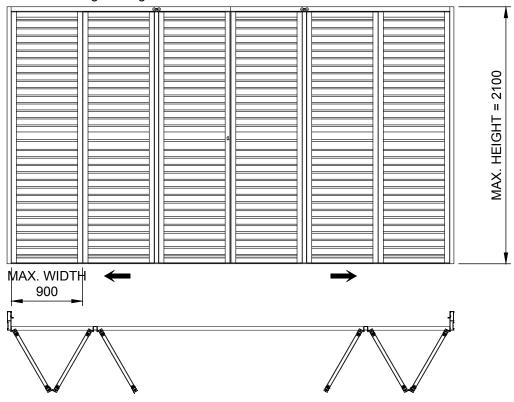






CONFIGURATIONS & SIZE LIMITATIONS

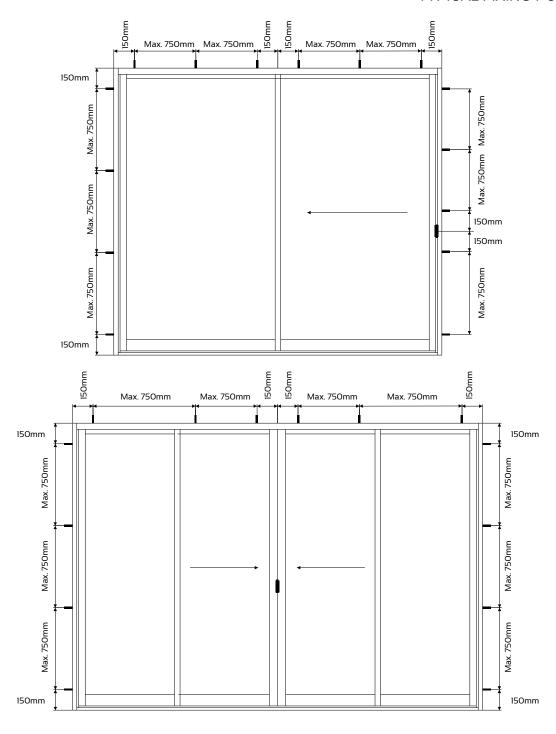
6 Panel Sliding Folding Shutter







TYPICAL FIXING POSITIONS



IMPORTANT: As there are many different methods of fixing the door to the structure, the illustration is a general fixation detail. The illustration defines the general method and hole fixings. Before installation or machining of the holes, please ensure that you have checked the required fixing method with the appropriated building engineer and that your chosen methods meets their specifications.

Failure to fix the door to correct building or engineer specifications will result in the door not meeting the required specifications.

DISCLAIMER: Please note that fixation of the frame to the structure is an element which MUST be specified and certified by an appropriate engineer and is not the responsibility of Wispeco.



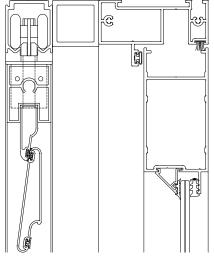


Outside

GENERAL

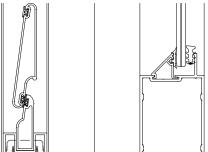
VISTA FOLD DOORS-ORIENTATION

For stand alone Horizon shutter doors fitted to an existing door.



Note:

Refer to Starfront for the cutting schedules of the manufacture of Vista fold doors as well as the Horizon framing. Note that the beads of the doors to face outwards as shown & therefore the machining of the stiles for top guide & bottom rollers to be opposite to what is shown in the manual.

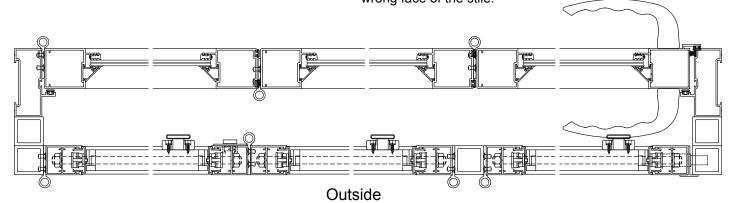


Note:

When placing the Horizon shutter panels into position, ensure there is sufficient space for the door handles to move with the shutter louvre panels open.

Note:

When selecting the lock stiles in Starfront, please note that certain lock stiles cannot be used due to the closing lip on the wrong face of the stile.







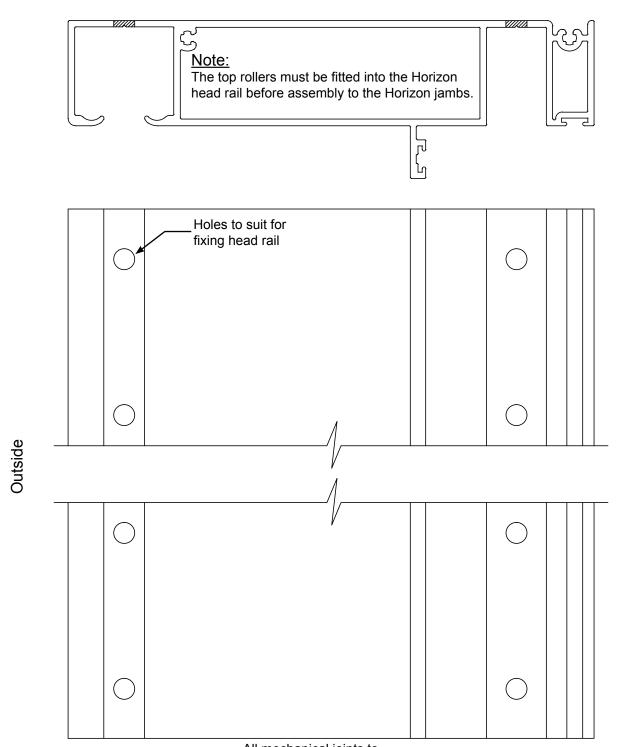
Section not to scale

MACHINING DETAILS

OUTER FRAME

Note:

Refer to Starfront for the cutting schedules of the manufacture of Vista fold doors as well as the new Horizon outer framing. Note that the beads of the doors to face outwards & therefore the machining of the stiles for top guide & bottom rollers to be opposite to what is shown in the manual.

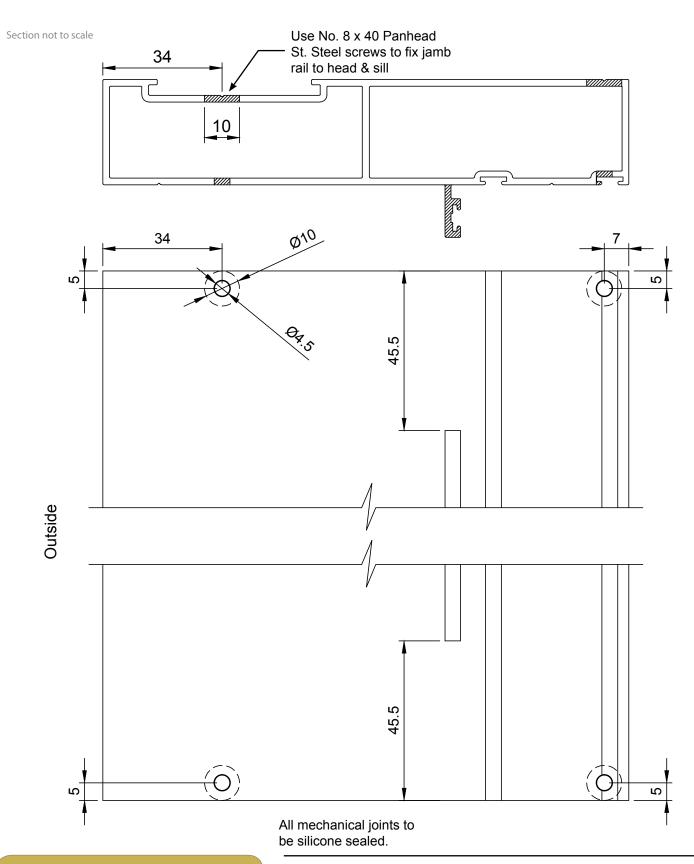


All mechanical joints to be silicone sealed.





OUTER FRAME

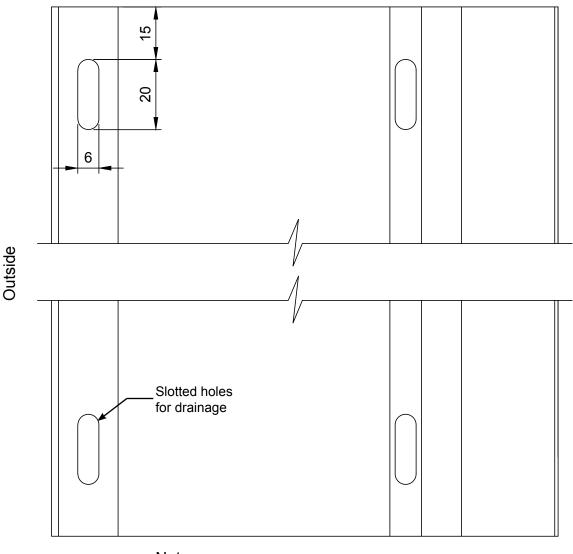






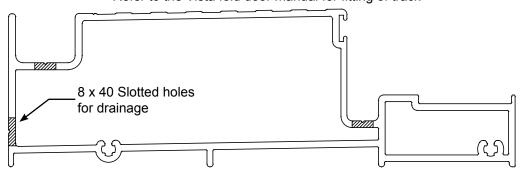
OUTER FRAME

Section not to scale



Note:

Refer to the Vista fold door manual for fitting of track



All mechanical joints to be silicone sealed.





OUTER FRAME-STAND ALONE

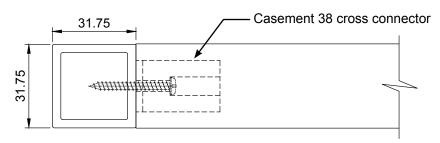
Note:

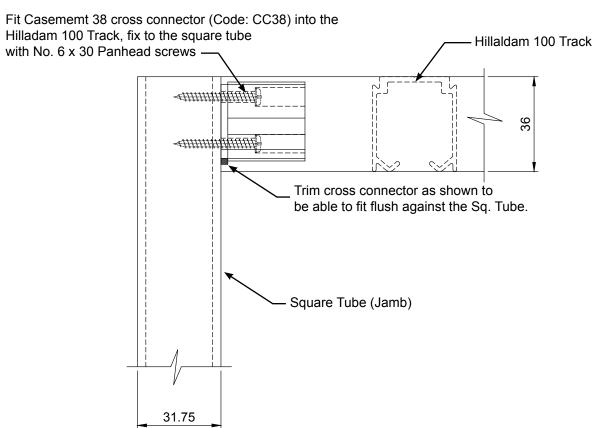
The Square Tube is to be used when the Horizon Shutters are to be installed as stand alone shutters or added to an existing door.

Section not to scale

Note:

The top rollers must be fitted into the Hillaldam 100 Track before assembly of the square tube to the Hillaldam track.



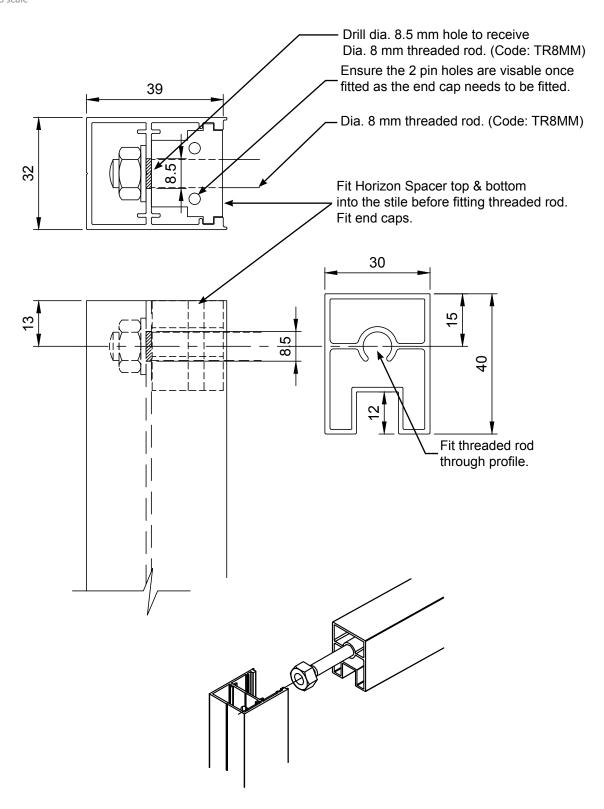






SHUTTER FRAME

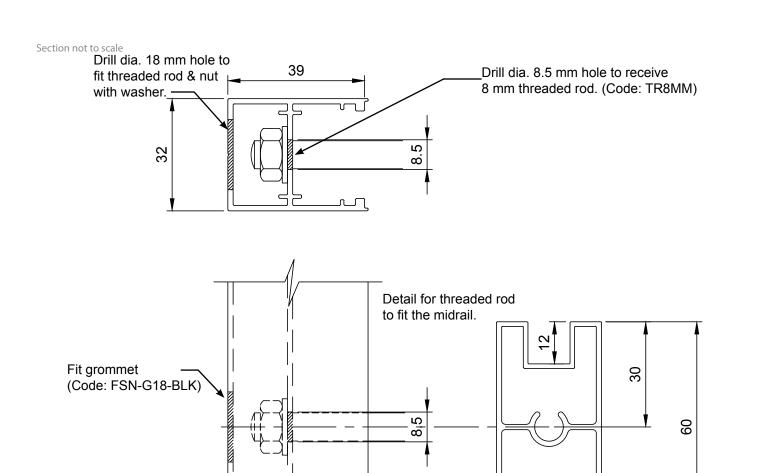
Section not to scale

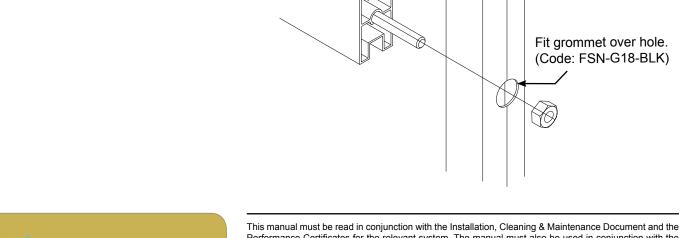






SHUTTER FRAME - MIDRAIL









FLUSH BOLT

Machine top & bottom of stile before assembly. Section not to scale Ensure correct stile is machined for flush bolt. 20 20 Horizon Spacer-16. The Horizon top & bottom spacer end cap to be cut to allow flush bolt lever to move up & down.



Inside

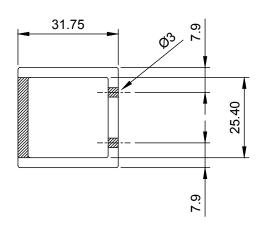


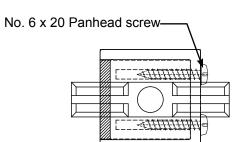
LOUVRE FRAME

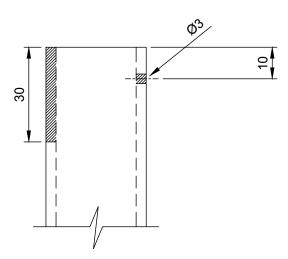
Note:

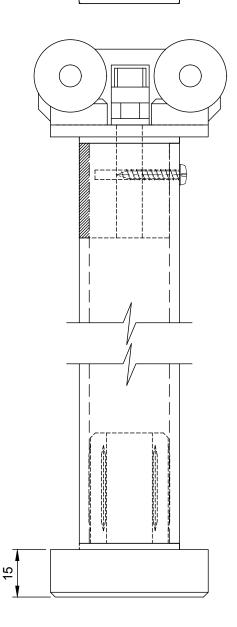
The top rollers must be fitted into the Horizon head rail before assembly of the Horizon jambs to the Horizon head rail.

Section not to scale









Note:

The bottom guide to be fitted before fitting panels to the top rollers.





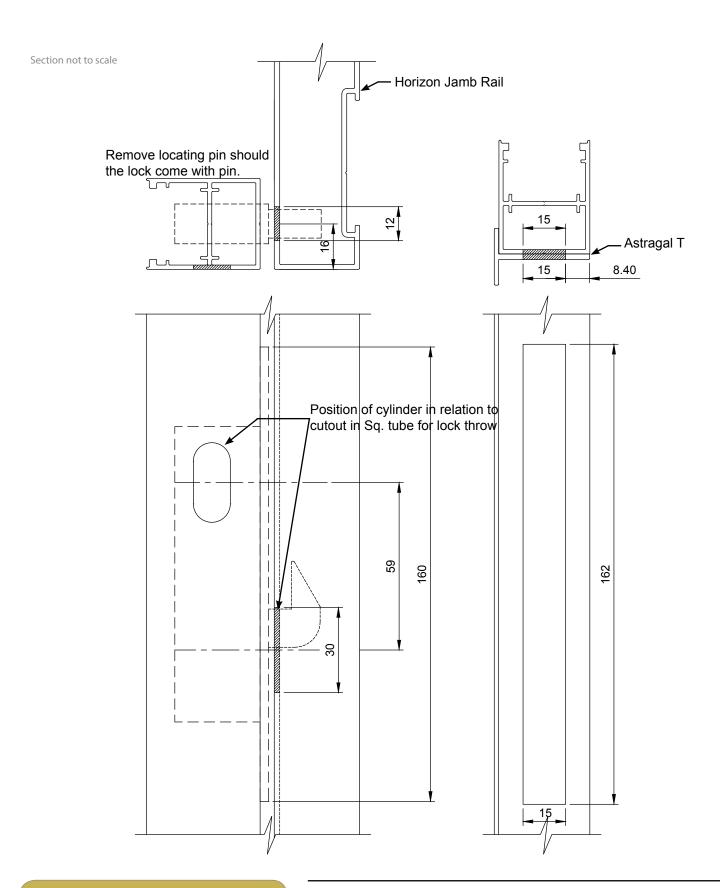
LOUVRE FRAME

Recommended hooklock - LCH-GLSTN Section not to scale 28 18.5 7 16 16 22 13_ 6.5 55 9 30





LOUVRE FRAME





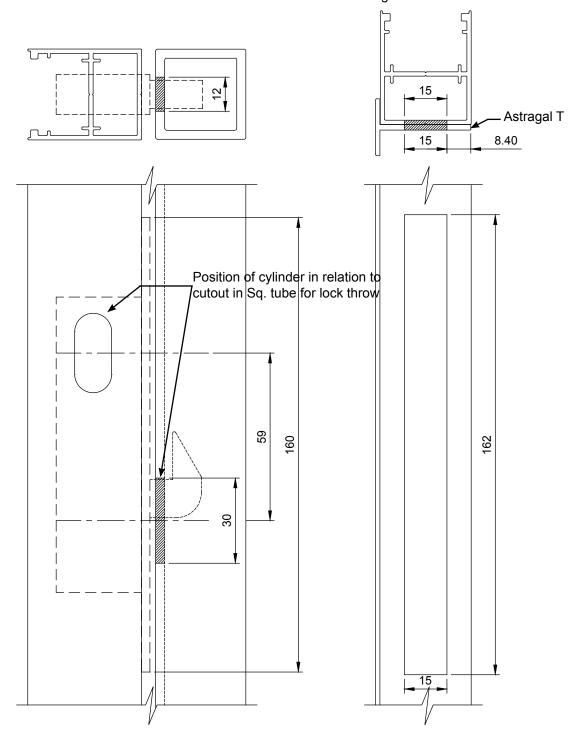


LOUVRE FRAME

Section not to scale

Note:

The Square Tube is to be used as the jambs when the Horizon Shutters are stand alone or added to an existing door.

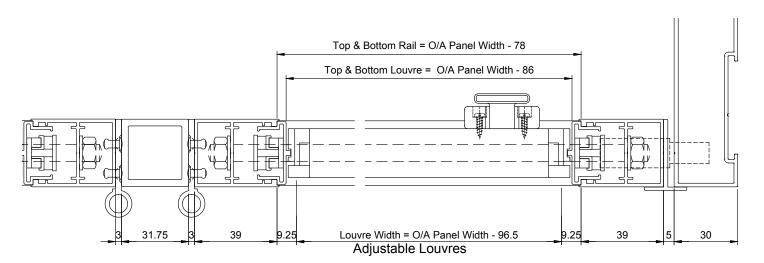


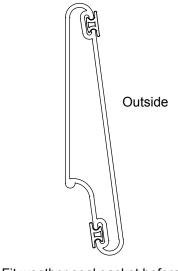




ASSEMBLY DETAILS

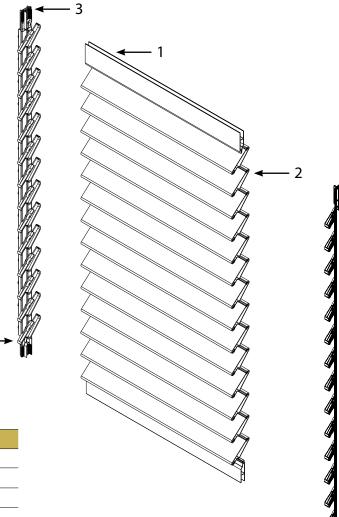
CUTTING FORMULAS





Fit weather seal gasket before fitting louvre blades into louvre mechansim.

See Page 23 for calculating the Louvre Mechanism size.



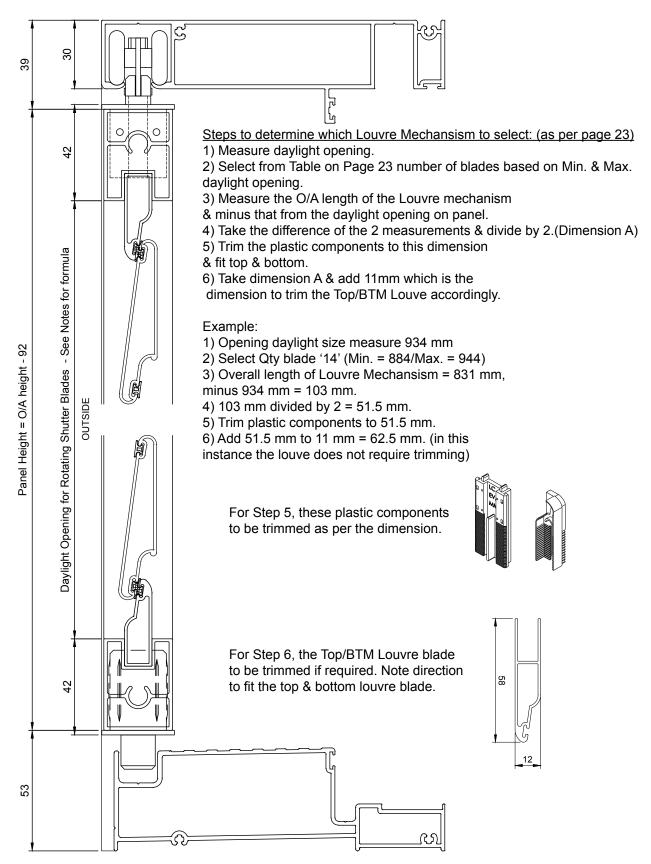
ITEM	QTY	DIE No.	DESCRIPTION
1	2	W55469	Top/BottomLouvre
2	14	W55474	Adjustable Louvre
3	1	1 x Set	Louvre Mechansism





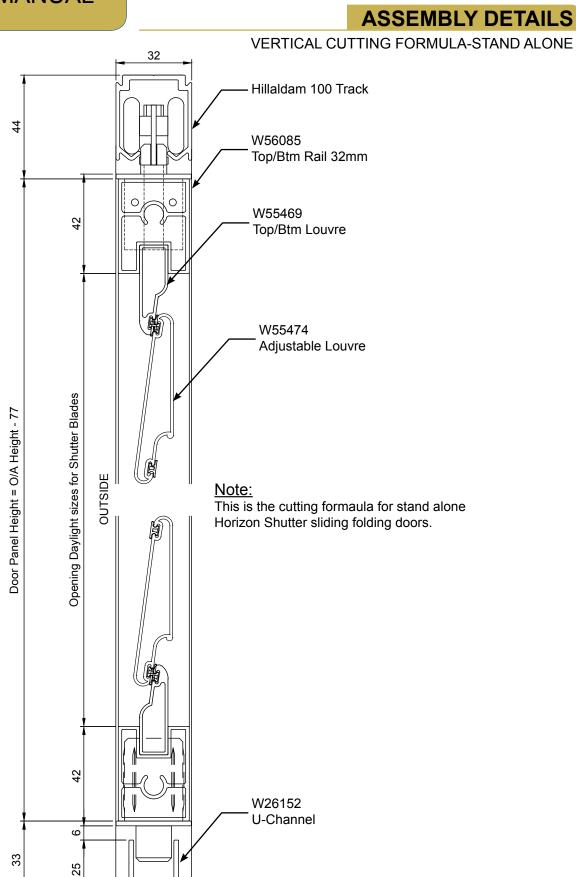
ASSEMBLY DETAILS

CUTTING FORMULAS













INFO TABLE

CUTTING FORMULA - LOUVRE MECHANISM

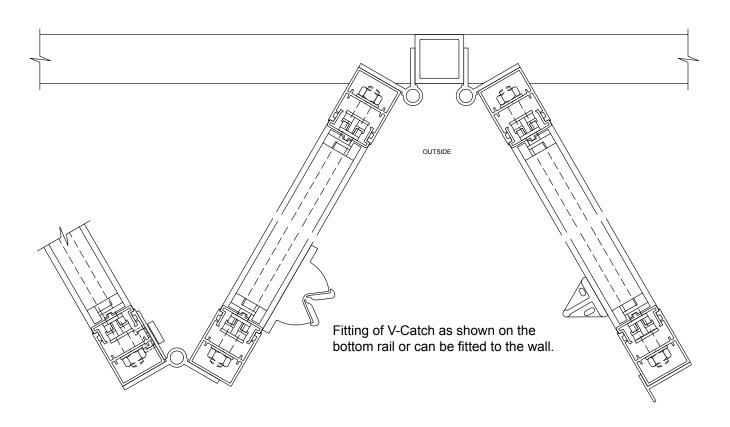
Table for Rotating Shutter Blades						
		Daylight Opening				
QTY of Rotating Blades	Code	Min	Max			
6	ABLM 6	404	464			
7	ABLM 7	464	524			
8	ABLM 8	524	584			
9	ABLM 9	584	644			
10	ABLM 10	644	704			
11	ABLM 11	704	764			
12	ABLM 12	764	824			
13	ABLM 13	824	884			
14	ABLM 14	884	944			
15	ABLM 15	944	1004			
16	ABLM 16	1004	1064			
17	ABLM 17	1064	1124			
18	ABLM 18	1124	1184			
19	ABLM 19	1184	1244			
20	ABLM 20	1244	1304			
21	ABLM 21	1304	1364			
22	ABLM 22	1364	1424			
23	ABLM 23	1424	1484			
24	ABLM 24	1484	1544			
25	ABLM 25	1544	1604			
26	ABLM 26	1604	1664			
27	ABLM 27	1664	1724			
28	ABLM 28	1724	1784			
29	ABLM 29	1784	1844			
30	ABLM 30	1844	1904			
31	ABLM 31	1904	1964			
32	ABLM 32	1964	2024			





ASSEMBLY DETAILS

FITTING OF V-CATCH







ASSEMBLY DETAILS

FITTING OF REVERSABLE SHUTTER HANDLE

