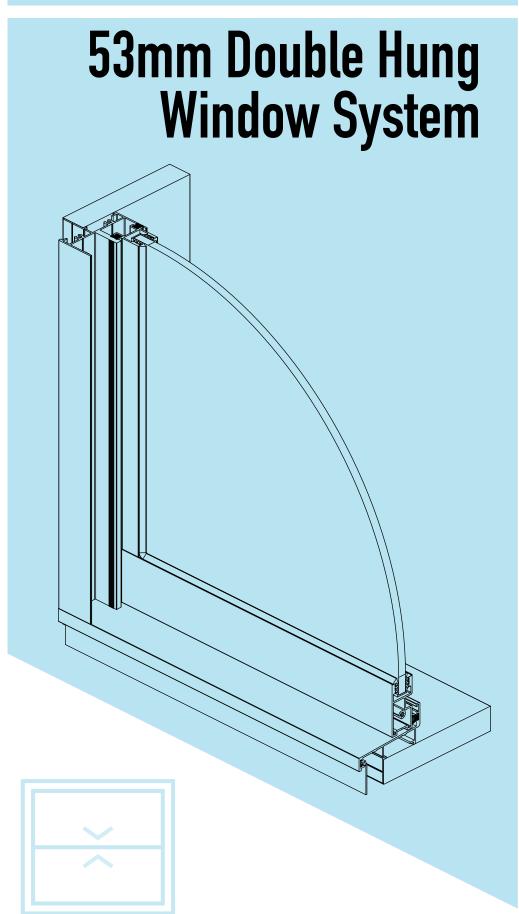




# **TECHNICAL MANUAL**















U Value 4.3 - 6.2

Max 10mm



Self Draining

# Disclaimer

Darley Aluminium strives to ensure the technical details contained in this manual are complete and correct. Occasionally, some errors or outdated information may require rectification - Darley Aluminium takes no responsibility for any loss or damage as a result of these errors. If you are unsure of any information provided within this manual, please contact your nearest Darley Aluminium office.

Engineering, manufacture and installation of frames must meet requirements of AS2047 (Windows in Buildings), AS/NZS 1170 (Loading Code) and AS/NZS 1664 (Aluminium Structures Code). Glazing selected must meet requirements of AS 1288 (Glass in Buildings). Size limitations are governed by design intent, glass selection, and local wind load requirements. An Engineer should be consulted to ensure selected framing and installation meets the requirements as set out by the relevant Australian Standards.

Any reference to an Australian Standard within this manual is based on the interpretations of Darley Aluminium. Code Compliance responsibility remains with the user of this manual. Misuse or misinterpretation of the information in this manual or of the Australian Standards remains the responsibility of the user of this manual.

# Copyright

This technical manual and the information within remains the property of Darley Aluminium. The manual must not be reproduced, copied or loaned without prior agreements with Darley Aluminium.



# Contents

Introduction	6
Welcome Overview Design Features Performance Summary System Requirements	6 6
Fabrication	7
Configuration	7
General Configuration	7
Cross Sections	
Head and Sill Option:	
Transom Option: Highlight	
Transom Option: Lowlight	
Jamb Option: Top Sash	
Jamb Option: Bottom Sash .	
Jamb Option: Fixed Sideligh	
Jamb Option: DH-DH Sidelig	
Additional Frame Options	
Hardware Small Parts	
Machining  Cutting Formula	
Bay Window Cutting Formula	
RWD029 Head	
RWD030 Sill	
RWD028 Left Jamb	
RWD028 Right Jamb	
RWD029 Continuous Head DI	
RWM040 Joiner	22
RWD034 Top Sash	23
RWD034 Bottom Sash	23
RWD032 Interlock	24
RWD033 Interlock	24
Assembly	
Mainframe Assembly	
Mainframe & Lowlight Assen	
DD Configuration Mainframe	-
Top Sash Assembly	
Bottom Sash Assembly	
Fly Screen Assembly	
Spring and Friction Foot Asso	
Spring Installation Fall Prevention Options	
Fall Prevention Assembly De	
Storm Mould Assembly	
Corner Plate Assembly	

Glazing	37
<b>Energy Ratings Defir</b>	
Performance	e 40
Strength Charts Interlock Strength C	ort 40 41
Appendix	42
Panel Profiles Flyscreen Profiles Additional Profiles Subframing Profiles	

# Resources Available



# **Software Packages**



Darley offers our fabrication customers 2 different types of software packages for window and door fabrication: V6 & Logikal. This software can be used to generate quotes, orders and bill of materials for our range of aluminium window and door systems.

# **CAD Drawings**





We also give our customers access to CAD drawings of our profiles, assemblies and wall charts. Contact your Account Manager to register for the customer portal on the Darley website www.darleyaluminium.com.au to gain access to these drawings.

# **Tooling Systems Catalogues & Brochures**



We offer a range of tooling machines used to punch/crop extrusions in our KlassicView residential window & door systems. Each tooling machine has been designed and enginneered in Australia, made with high quality steel and available in either pneumatic, hydraulic and airover-hydraulic options.



KlassicView brochures are available for distribution to the end-users, while our NEW KlassicView catalogues provide an overview of the specific profiles that are needed to fabricate the windows and doors in the KlassicView range.

SYDNEY HEAD OFFICE

MELBOURNE

BRISBANE

PERTH

T: (02) 8887 2888

T: (03) 9238 3888

T: (07) 3287 1888

T: (08) 9437 2999

E: sales@darleyaluminium.com.au E: salesvic@darleyaluminium.com.au E: salesqld@darleyaluminium.com.au E: saleswa@darleyaluminium.com.au



## Welcome

#### Overview

Darley Aluminium's KlassicView 53mm Double Hung Window is the ideal solution to many residential or low end commercial requirements. The system works seamlessly within the 53mm suite and can also be combined with other Darley systems such as the 76mm suite and commercial suites.

Easily assembled, all of Darley's 76mm and 53mm range can be purchased either in standard lengths, or as a flatpack kit where tooling or time costraints exist. Designed for Australian climatic conditions, the KlassicView 53mm Double Hung Window has been tested and exceeds Australian Standard AS2047, with a variety of interlock options for different wind loads.

### **Design Features**

- Accepts glass thickness from 4mm to 10mm
- Compatible with other Darley Aluminium Commercial Systems
- Tested and Approved by an independent NATA accredited laboratory

### Performance Summary

- · Tested overall unit height of 1500mm
- Tested overall unit width of 900mm
- Serviceability: 1800Pa Positive and Negative at 1/180 deflection ratio
- Air Infiltration:
  - 0.50 L/s.m<sup>2</sup> Positive and 0.28 L/s.m<sup>2</sup> Negative @ 75Pa
  - 0.26 L/s.m<sup>2</sup> Positive and 0.45 L/s.m<sup>2</sup> Negative @ 150Pa
- Water Penetration: 200Pa
- Ultimate: 2700Pa Positive and Negative
- (See 'Performance' section for more detail)
- Size limitations are governed by design intent, glass selection and local wind load and deflection requirements. For further technical assistance and fabricator selection contact Darley Aluminium.
- An Engineer should be consulted to ensure selected framing meets the requirements as set out in the relevant Australian Standards.

### System Requirements

- Engineering, manufacture and installation of frames must meet requirements of:
  - AS2047 (Windows in Buildings)
  - AS/NZS 1170 (Loading Code)
- Glazing selected must meet requirements of AS1288 (Glass in Buildings)

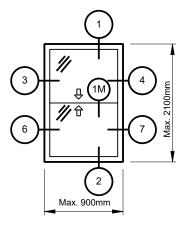




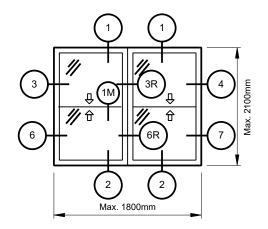
# Configuration

### **General Configuration**

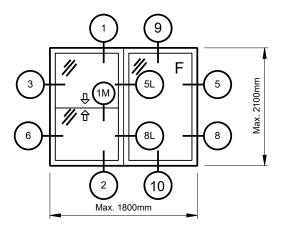
Type: DH



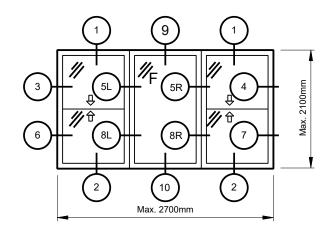
Type: DH-DH



Type: DH-F



Type: DH-F-DH



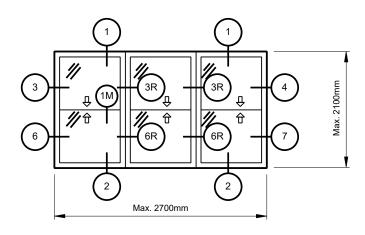
#### NOTES:

- For frames, designs, and configurations outside the tested scope, an engineer should be consulted.
- All raw joints need to be sealed with small joint sealer or foam tab option.

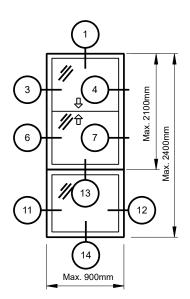


# **General Configuration**

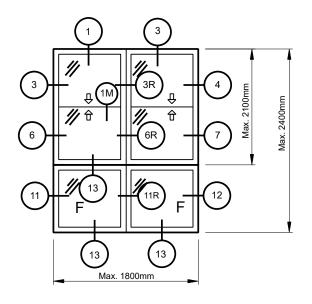
Type: DH-DH-DH



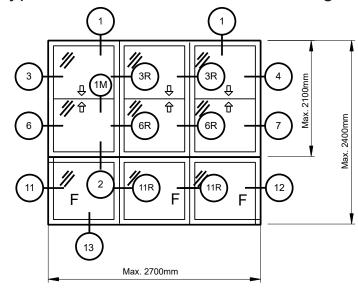
Type: DH/F with Lowlight



Type: DH-DH/F-F with Lowlight



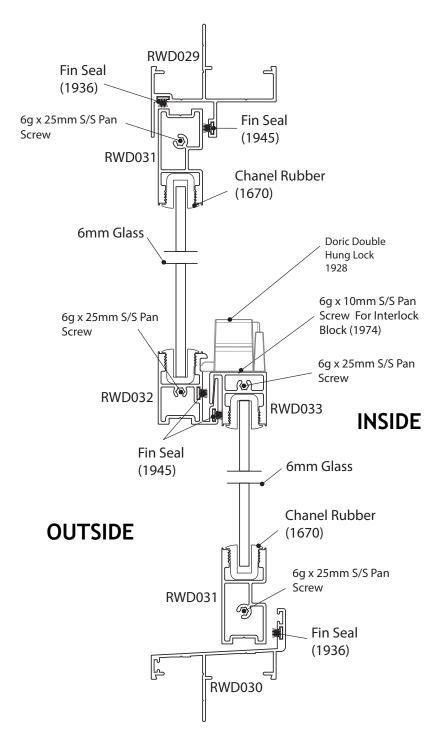
Type: DH-DH-DH/F-F-F with Lowlight





# **Cross Sections**

### Head and Sill Option:

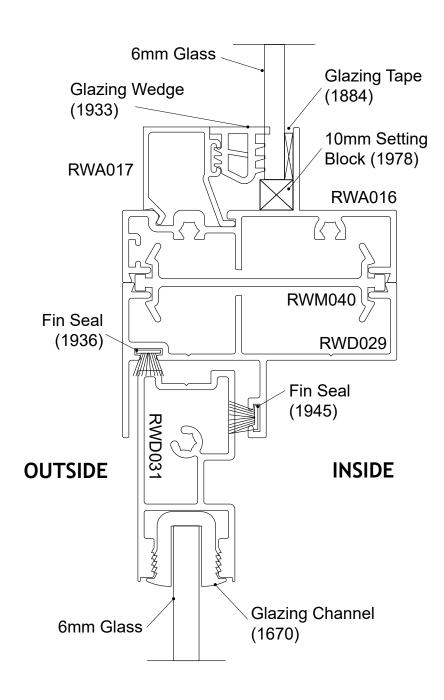


#### NOTES:

- For frames, designs, and configurations outside the tested scope, an engineer should be consulted.
- All raw joints need to be sealed with small joint sealer or foam tab option.



Transom Option: Highlight

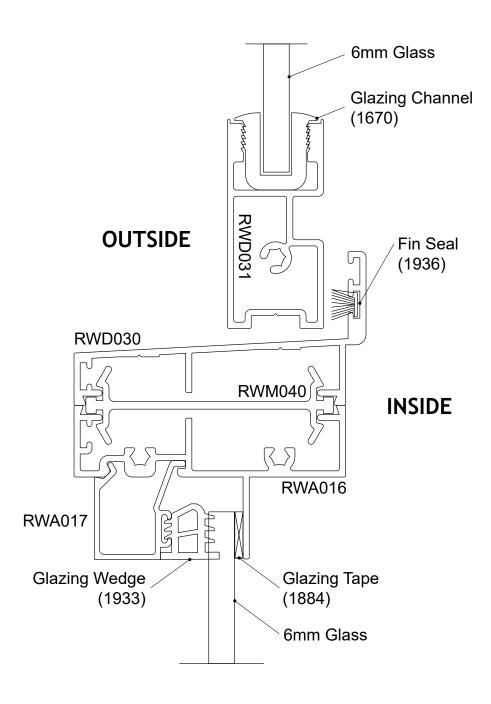


#### NOTES:

- For frames, designs, and configurations outside the tested scope, an engineer should be consulted.
- All raw joints need to be sealed with small joint sealer or foam tab option.



Transom Option: Lowlight

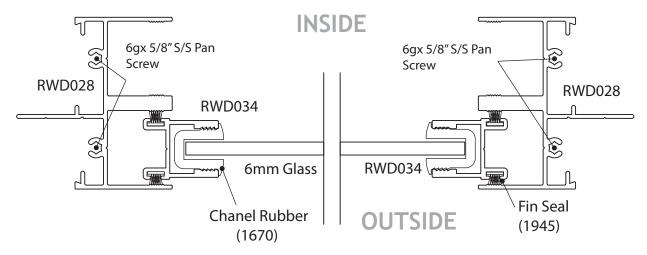


#### NOTES:

- For frames, designs, and configurations outside the tested scope, an engineer should be consulted.
- All raw joints need to be sealed with small joint sealer or foam tab option.



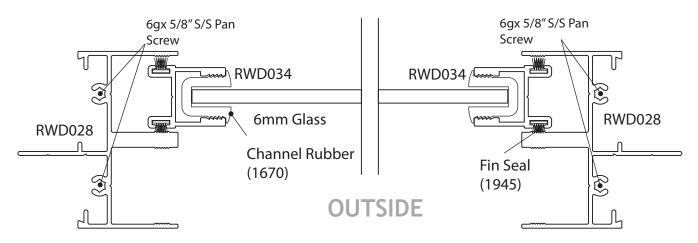
Jamb Option: Top Sash



NOTE: Crimp both sides of stile to retain weather strip (See top sash assembly - page 23)

Jamb Option: Bottom Sash

### INSIDE



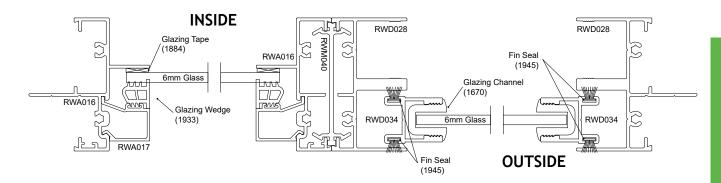
NOTE: Crimp both sides of stile to retain weather strip (See bottom sash assembly - page 23)

#### NOTES:

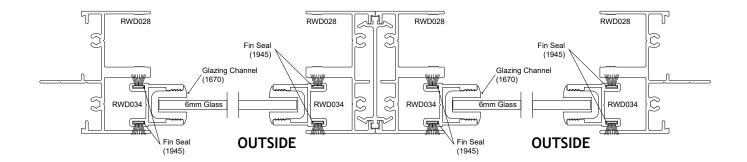
- For frames, designs, and configurations outside the tested scope, an engineer should be consulted.
- All raw joints need to be sealed with small joint sealer or foam tab option.



Jamb Option: Fixed Sidelight



Jamb Option: DH-DH Sidelight



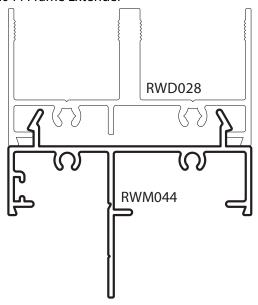
#### NOTES:

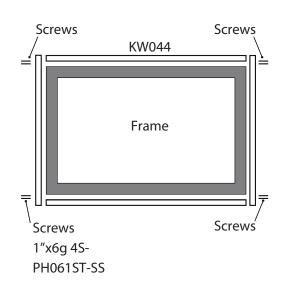
- For frames, designs, and configurations outside the tested scope, an engineer should be consulted.
- All raw joints need to be sealed with small joint sealer or foam tab option.



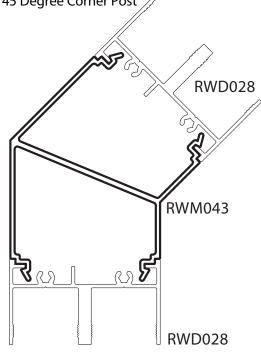
### Additional Frame Options

#### **RWM044 Frame Extender**

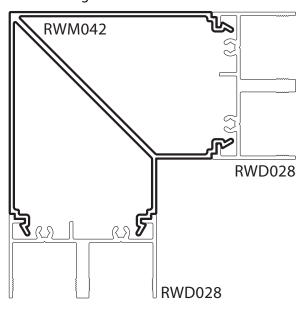




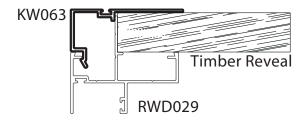
### RWM043 45 Degree Corner Post



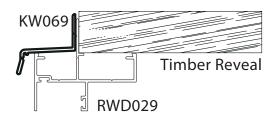
#### RWM042 90 Degree Corner Post



#### KW063 Inline Reveal Adaptor



#### KW069 Drip Mould (Head Flashing)

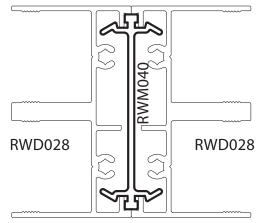


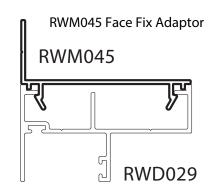




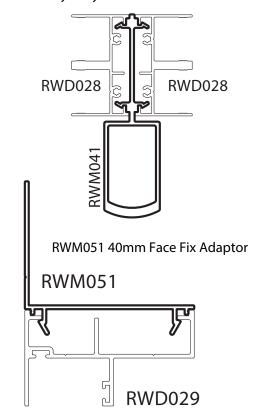
### Additional Frame Options



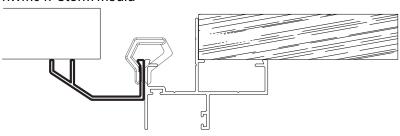


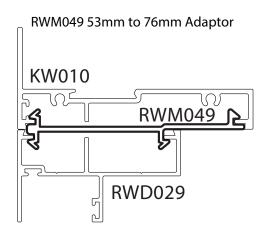


#### RWM041 Heavy Duty Frame Joiner

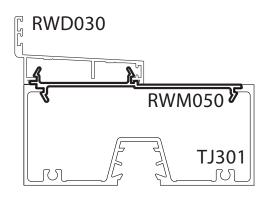


RWM047 Storm Mould





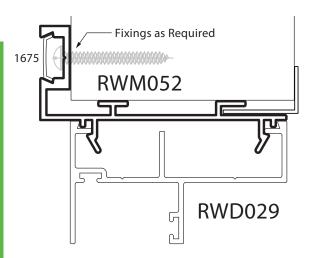
RWM050 53mm to 101.6mm Adaptor



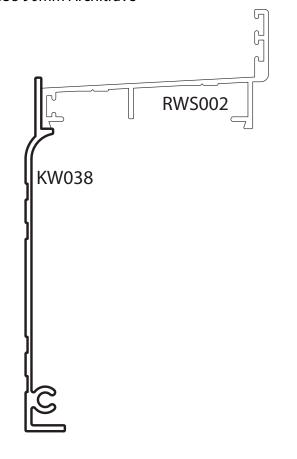


### Additional Frame Options

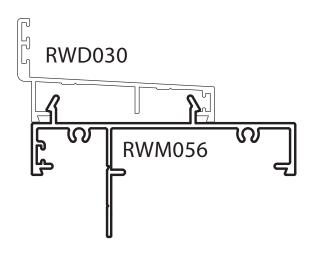
### RWM052 53mm Concealed Faced Fixed Adaptor



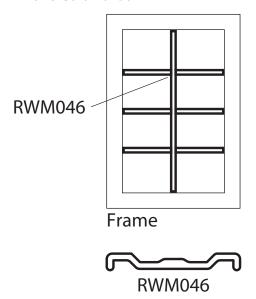
#### KW038 90mm Architrave



#### RWM056 53mm to 76mm Frame Extender



#### RWM046 Colonial Bar





### **Small Parts**



Hardware

Glazing Channel Part No.: 4mm - 1923 5mm - 1924 6.38mm - 1670 8.38mm - 1604 10.38mm - 1671



Glazing Wedge Part No.: 4mm - 1931 5mm - 1623 6.38mm - 1933 8.38mm - 1615 10.38mm - 1620



Glazing Tape Part No. 1884



Frame Screws - 6gx5/8" S/S Pan 4S-PH0658ST-SS - 6gx1" S/S Pan 4S-PH061ST-SS



Countersunk (CS) Frame Screws - 6qx3/8" S/S Pan 4S-CH0638ST-SS



53mm Gaskets Part No. Head Gasket - 1947 Sill Gasket - 1948



Weather Strips Part No. 4.7-550:1980 4.7-600:1936



Sill Flap Part No. 1925



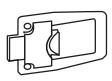
**Drain Flap** Part No. 1926



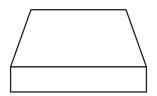
Flyscreen Spring Part No. 1973



Corner Stake Part No. 2680



Flyscreen D-Pull and Plunger Part No. 2846



Finger-Jointed 138mmx18mm Laminated Timber Reveal Part No. TR01-138T18M58





Spline Part No.

2500 (5mm Foam) 2501 (5.7mm Foam) 2502 (6mm Foam) 2503 (5.3mm Foam)



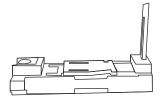


11mm D Pull Part No. 2800





### **Small Parts**



**Friction Foot** Part No. 1942



**Doric Double Hung** Cam Sash Lock Part No. 1928

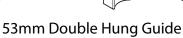


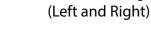
**Double Hung Spring** Part No. 1275



53mm Double Hung Top Rail Guide











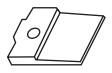
**Universal Window Stop** Part No. 1963



**RW Fixed Corner Plate** Part No. 1992



Storm Mould Clip Part No. 1975



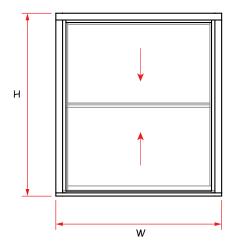
Double Hung Tab Part No. 2847



**Double Hung Stop** Part No. 1943



#### **Cutting Formula** Machining



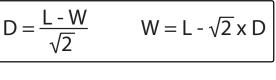
Code	Description	Quantity Formula		
RWD029	Double Hung Window Head	1	Width	
RWD030	Double Hung Window Sill	1	Width	
RWD028	Double Hung Window Jamb *	2	Height - 25	
RWD031	Top Rail	Width - 58		
RWD032	Top Sash Interlock	1	Width - 58	
RWD033	Bottom Sash Interlock	1	Width - 58	
RWD031	Bottom Rail	1	Width - 58	
RWD034	Top Sash Stile	2	(Height - 2)/2	
RWD034	Bottom Sash Stile	2	(Height - 2)/2 - 8	
HFF180	Flyscreen Height	ht 2 Height - 22		
HFF180	HFF180 Flyscreen Width		2 Width - 40	
	Glass Height	2	(Height - 102)/2	
	Glass Width		Width - 68	

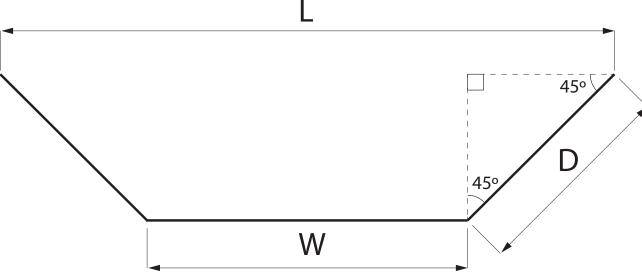
<sup>\*</sup>NOTE: Jambs have 3° bottom cut (see Machining Details for RWD028)

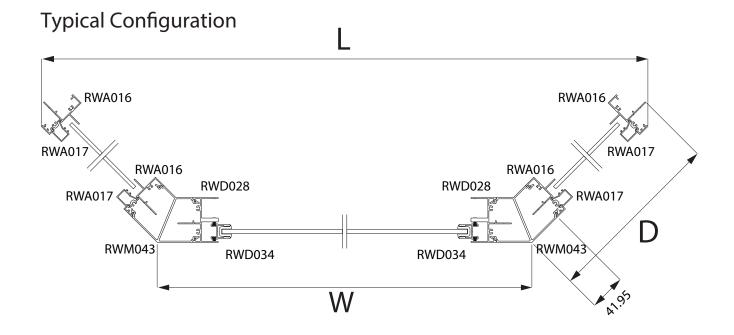


Bay Window Cutting Formula



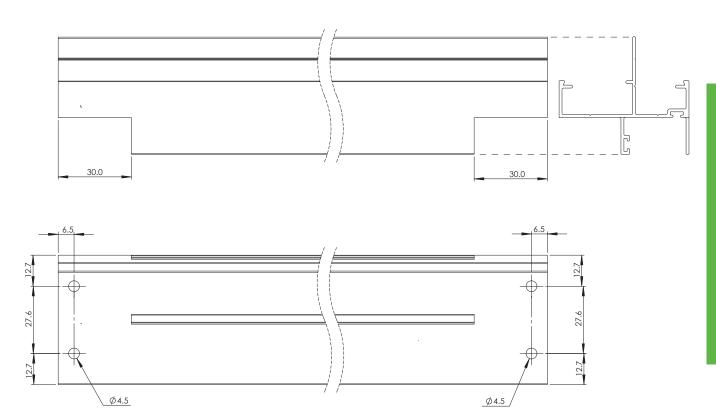




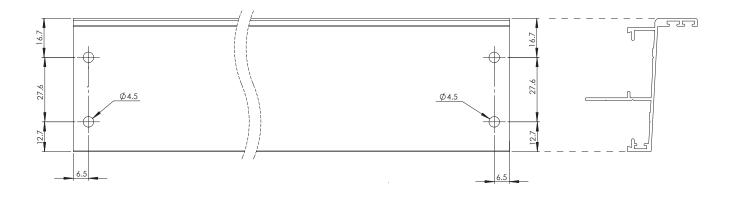




### RWD029 Head

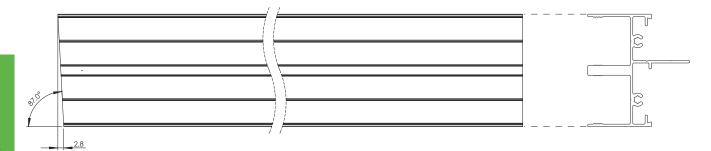


### RWD030 Sill

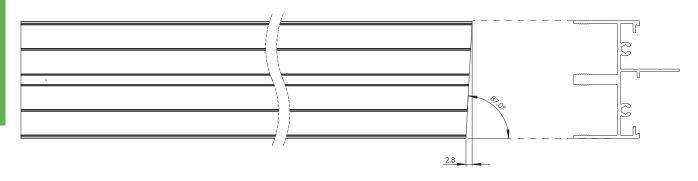




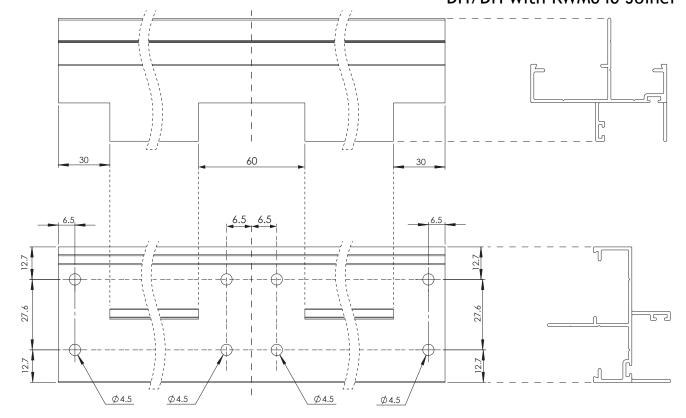
### RWD028 Left Jamb



### RWD028 Right Jamb

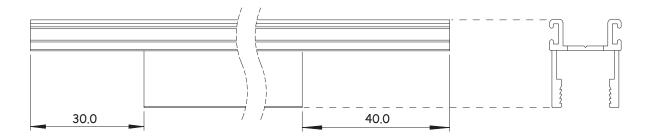


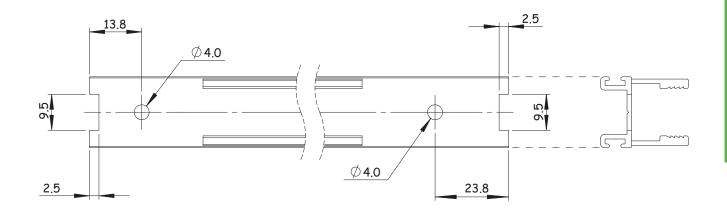
### RWD029 Continuous Head DH/DH with RWM040 Joiner



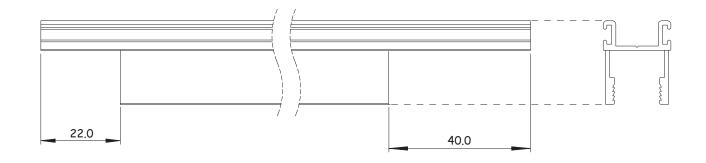


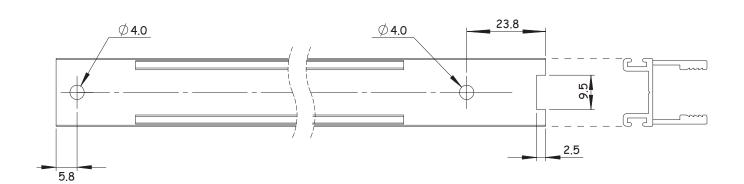
# RWD034 Top Sash





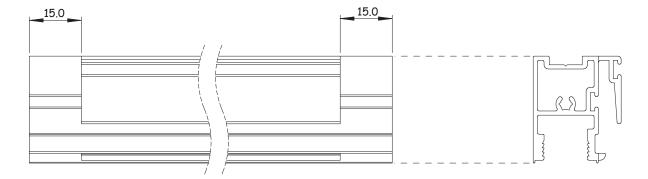
### RWD034 Bottom Sash



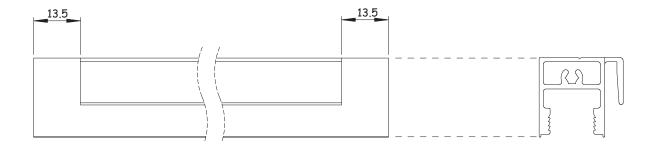




### RWD032 Interlock



### **RWD033 Interlock**

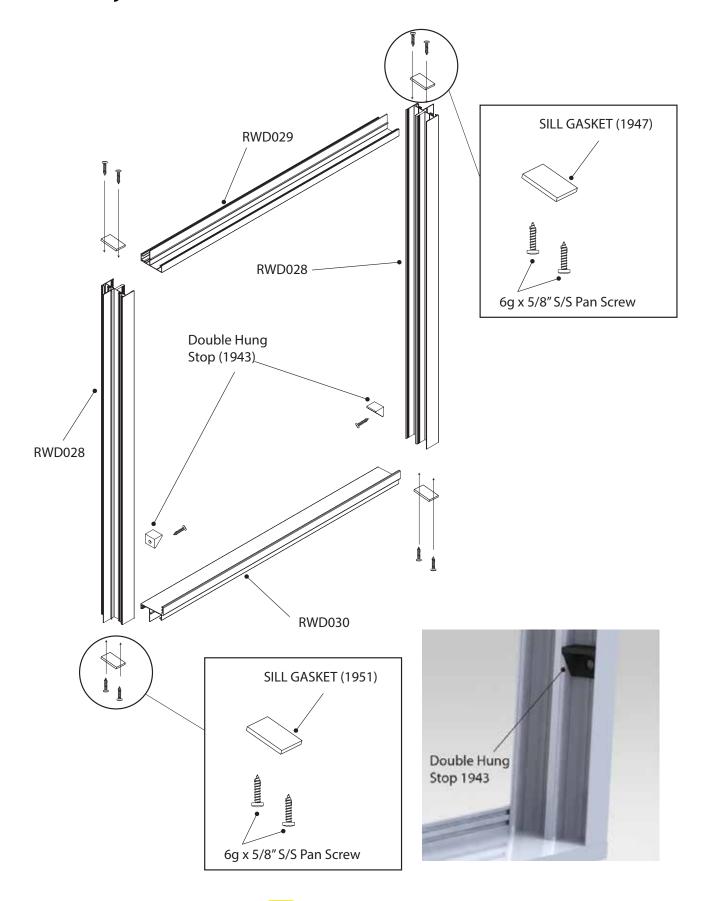






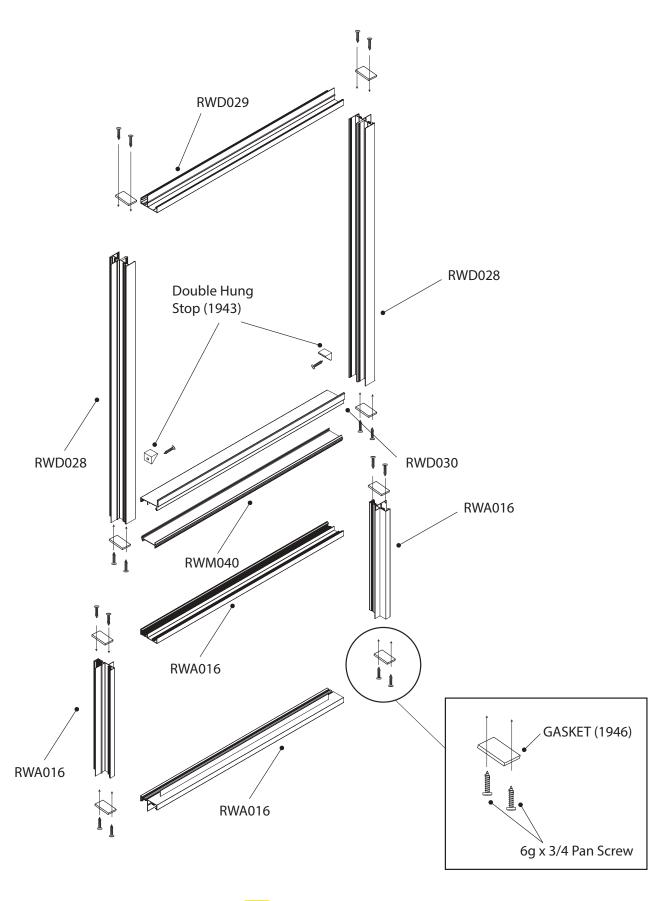
# Assembly

### Mainframe Assembly



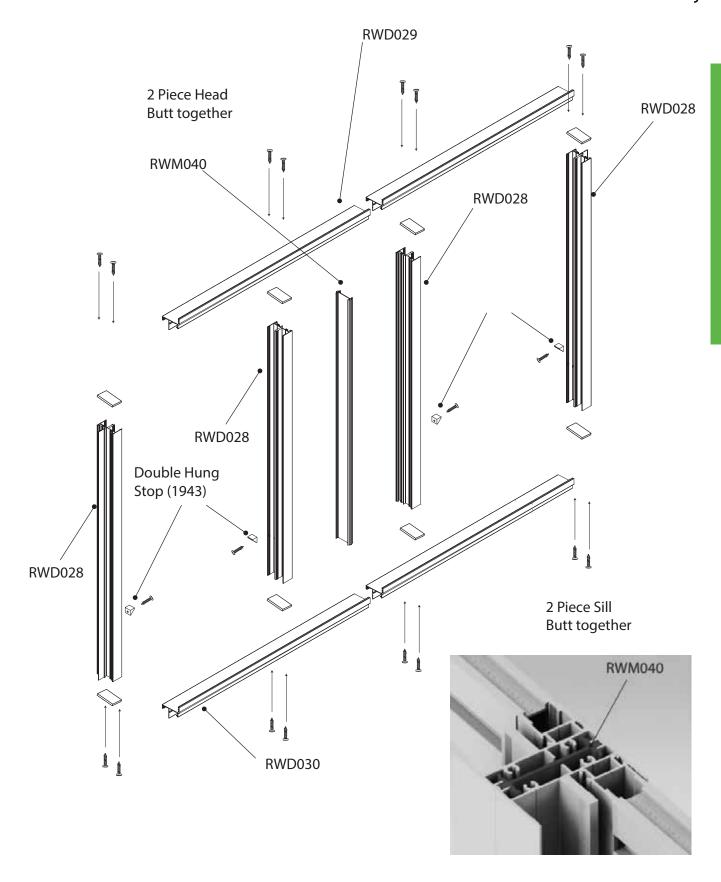


# Mainframe & Lowlight Assembly



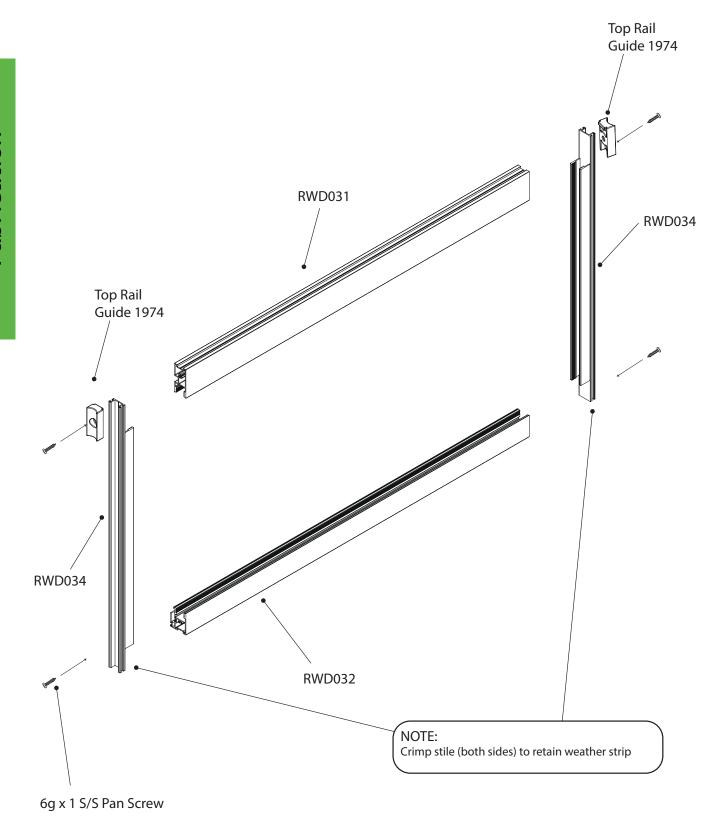


## DD Configuration Mainframe Assembly



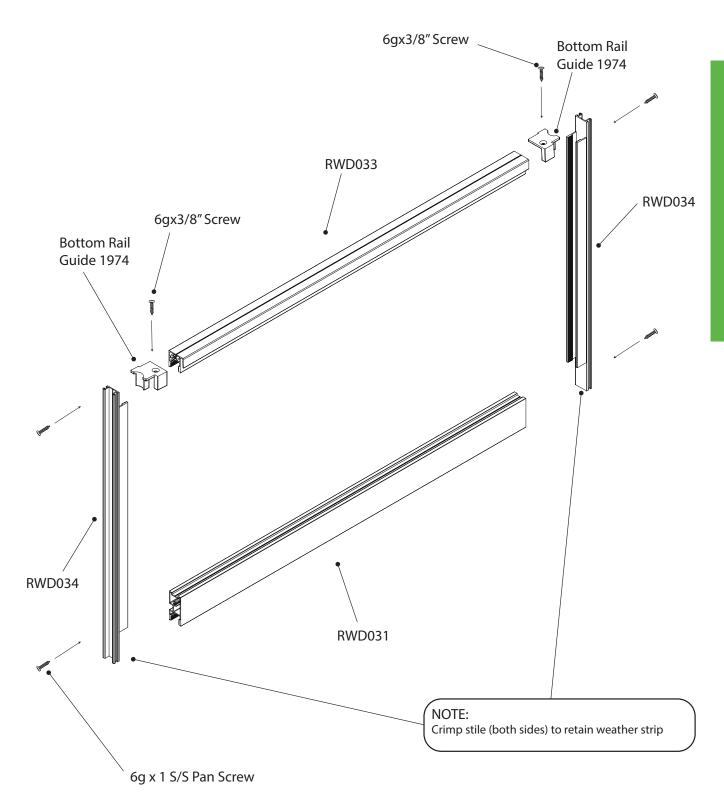


### Top Sash Assembly



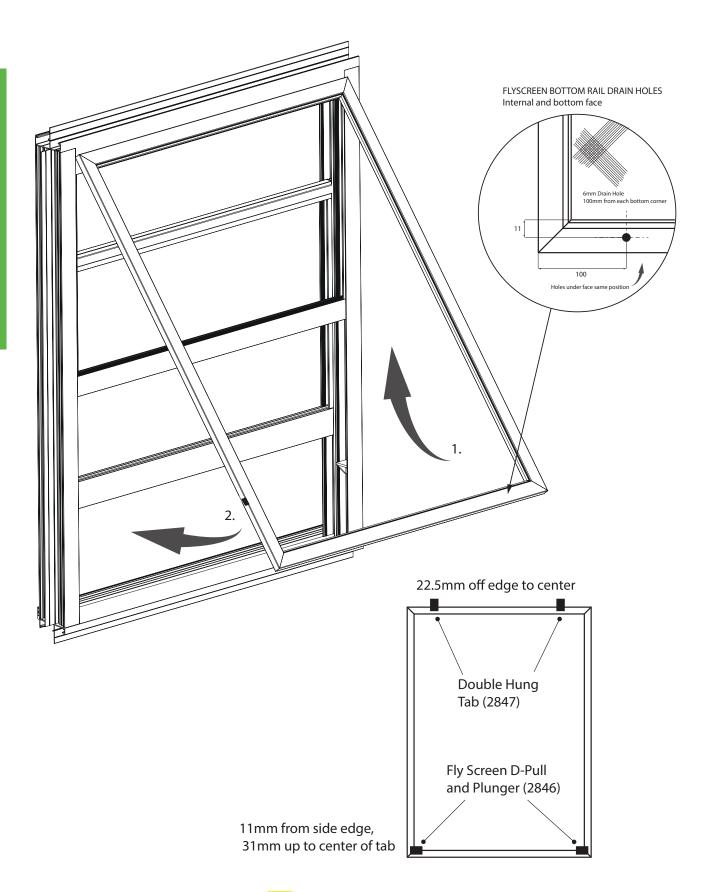


### **Bottom Sash Assembly**





# Fly Screen Assembly





Spring and Friction Foot Assembly



# Friction Foot 1929 Assembly



1. Screw springs into jamb (see page 32 for spring placement)



2. Replace spring plastic wrings with long cord or string for easier access



3. Install sash(es) into frame



4. Fit friction foot onto end of spring after removing cord and slide up into the side of the sash



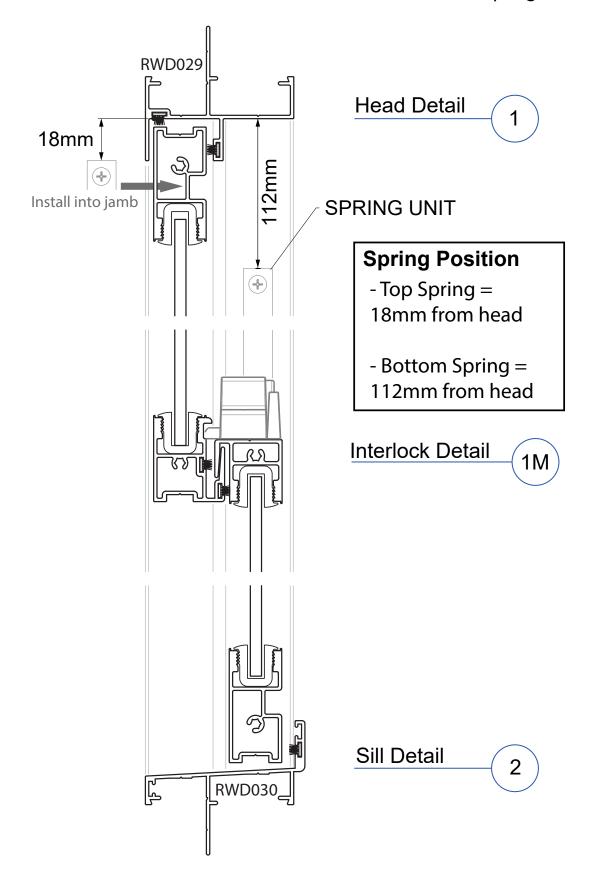
5. Screw/pop-rivet friction feet onto bottom of sash



6. Push in stile insert



**Spring Installation** 





DARLEY ALUMINIUM KlassicView 53MM DOUBLE HUNG WINDOW SYSTEM

Fall Prevention Options



# **KIDS DONT FLY RESIDENTIAL PRODUCTS**

	SLIDING WINDOW	AWNING/ CASEMENT	DOUBLE HUNG	LOUVRE
WINDOW SAFETY PRODUCT TYPE				
Universal Window Stop 1963 Universal Window Stop Packer 1964	✓		2 - one in each side of frame	
Anti Lift Block 1965  Restricted Stays	<b>√</b>			
Selected Mesh/DVA*	✓	✓	✓	<b>✓</b>
Grille*	<b>✓</b>	<b>✓</b>	✓	<b>✓</b>
Double Hung Stop 1943			For Top Sash Restriction	
Restricted Chainwinder		Complies if window width is less than 400mm		

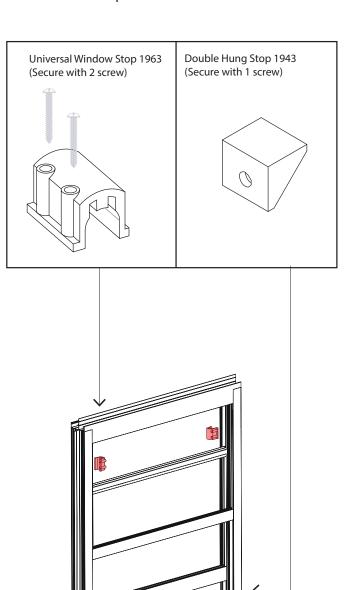
<sup>\*</sup>Selected Mesh/DVA and Grilles must be mechanically fixed to frame

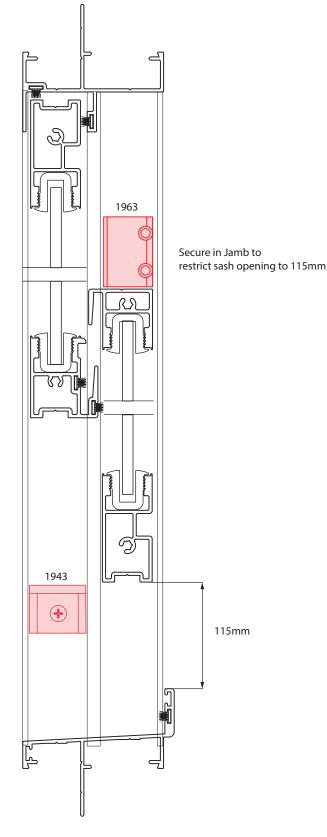


### Fall Prevention Assembly Details

\*\*NOTE: If Top Sash opening locates within fall prevention height zone on wall, please also restrict Top Sash to 115mm using the same block and fixings as the Bottom Sash, or adjust height

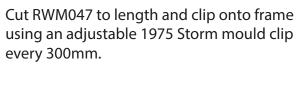


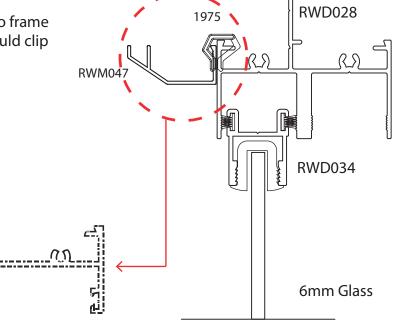






# Storm Mould Assembly



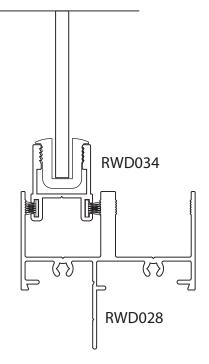


### 1975 Storm mould clip



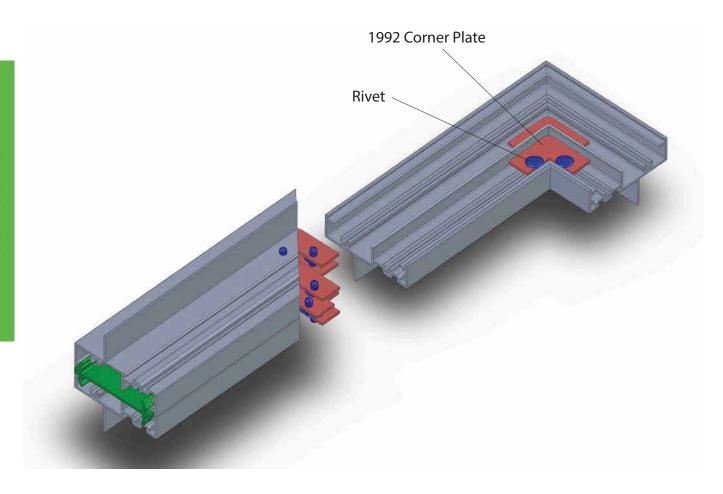


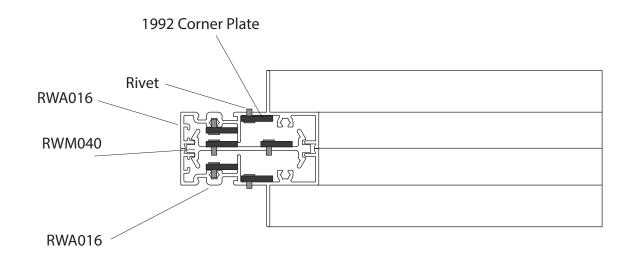






# Corner Plate Assembly



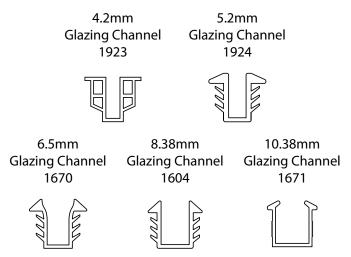




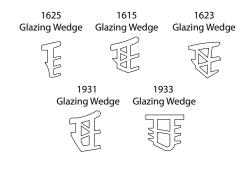
# Glazing

# Glass & Rubber Combinations

KlassicView 53mm Double Hung						
Glass Thickness	Channel Rubber Required	Pocket Size				
4mm	1923					
5mm	1924	n 1				
6mm	1670	12.5 mm				
8mm	1604	<b>3</b> 5				
10mm	1671					



KlassicView						
53mm Fixed Framing						
Glass Thickness						
4mm	1931 – 1884					
5mm	1923 – 1884	R	14			
6mm	1933 – 1884	RWA017	4 mm			
8mm	1615 – 1884	.7	3			
10mm	1625 – 1884					





### **Energy Ratings Definitions**

All Darley products have been rated under the Australian Fenestration Ratings Council (AFRC) Energy Rating Scheme.

### **Definitions**

The following are terms used in describing the energy ratings of windows as defined by the Window Energy Rating Scheme (WERS). For further information go to www.wers.net.

# U-Value (U<sub>w</sub>)

U-Value measures how well a product prevents heat from escaping. It is a measure of the rate of non solar heat loss or gain through a material or assembly. U-Value ratings generally fall between 2.0 - 10.0 W/m<sup>2</sup> for Australian products. The rate of heat is indicated in the terms of the U-Value of a window assembly which includes the effect of the grame, glass, seals and any spacers. The lower the U-value, the greater a window's resistance to heat flow and the better its insulating value. The U-Value for a window takes account for the various U-values for the components making up the window, so you may see these in technical literature:

UW is the value for the whole window and because of it's importance is usually abbreviated to U.

 $\rm U_{c}$  is the value at the centre of glass.  $\rm U_{f}$  is the value for the frame.

# Solar Heat Gain Coefficient (SHGC )

SHGC measures how well a product blocks heat caused by sunlight. The SHGC is a fraction of incident solar radiation admitted through a window, both directly transmitted, and absorbed and subsequently released inward. SHGC is expressed as a number between 0 and 1. The lower a window's SHGC, the less solar heat it transmits.

# Visible Transmittance (T<sub>m</sub>)

Visible transmittance measures how much light comes in through a product. It is an optical property that indicates the amount of visible light transmitted. T<sub>w</sub> is expressed as a number between 0 and 1. The higher the number, the more light is transmitted.



## **Energy Ratings**

Window ID	Glazing	<u>Uw</u>	SHGC	
DAR-041-01	10.38TLam	6	0.55	
DAR-041-02	10.38Sn	4.7	0.48	
DAR-041-03	4Gy	6.2		
DAR-041-04	10.38VLamSpGn	6	0.44	
DAR-041-05	10.38EVSpGn 4.5		0.31	
DAR-041-06	10.38EVGy	4.4	0.34	
DAR-041-07	10.38CPGy	4.3	0.4	
DAR-041-08	10.38CPClr	4.3	0.55	
DAR-041-09	10.38GyLam	6	0.5	
DAR-041-10	10.38ClrLam	6	0.63	
DAR-041-11	10Sn	4.7	0.49	
DAR-041-12	6.38CPGy	4.4	0.43	
DAR-041-13	6.38CPNtl	4.4	0.44	
DAR-041-14	6.38CPGn	4.4	0.43	
DAR-041-15	6.38CPClr	4.4	0.58	
DAR-041-16	6.38Sn	4.8	0.49	
DAR-041-17	6.38TLam	6.1	0.35	
DAR-041-18	6.38SnGy	4.7	0.38	
DAR-041-19	6.38VLamGy	6.1	0.52	
DAR-041-20	6.38VLamClr	6.1	0.67	
DAR-041-21	6ET	4.4	0.59	
DAR-041-22	6Sn	4.8	0.51	
DAR-041-23	6TS21Az	5.4	0.25	
DAR-041-24	6EVSpB	4.5	0.32	
DAR-041-25	6EVSpGn	4.6	0.32	
DAR-041-26	6EVBG	4.5	0.39	
DAR-041-27	6EVGy	4.6	0.36	
DAR-041-28	6EVClr	4.5	0.53	
DAR-041-29	5Clr 6.2		0.7	
DAR-041-30	5Gy 6.2		0.52	
DAR-041-31	5SpGn 6.2		0.47	
DAR-041-32	4Sn	4.8	0.52	
DAR-041-33	4Clr 6.2		0.72	
DAR-041-34	SOLOS 10.38KSLamGy 4.28		0.4	
DAR-041-35	SOLOS 10.38KSLamClr	4.25	0.55	
DAR-041-36	SOLOS 6.38KSLamGy	4.37	0.43	
DAR-041-37	SOLOS 6.38KSLamNtl	4.39	0.44	
DAR-041-38	SOLOS 6.38KSLamGn	4.36	0.43	
DAR-041-39	SOLOS 6.38KSLamClr	4.36	0.58	
DAR-041-40	SOLOS 6KSClr	4.38	0.59	

Gy = Grey, Ntl = Neutral, Gn = Green, Clr = Clear, B = Blue, Bz = Bronze, Lam = Laminate, ComPls = Comfort Plus, SolT -SolTech, Sp = Super, ET = Energy Tech, EVan = Evantage, AZT = Solar Cool Azuria, Sngy = Sunergy.

### NOTES

- 1. U is the whole window U-Value
- 2. SHGC is the whole window solar heat gain coefficient
- 3. Tww is the whole window visible light transmittance
- 4. Percentage improvement figures are compared with using base-case Generic Window 1 (3mm clear in standard aluminium frame)
- 5. A negative percentage improvement figure indicates performance worse than the base-case window
- 6. A positive percentage improvement figure indicates performane better than the base-case window
- 7. Maximum air infiltration is 5.0 L/s.m<sup>2</sup> at a positive pressure difference of 75Pa as measured according to AS 2047
- 8. Static performance (U, SHFC, Tvw, Tdw) Calculated using Window 5.2 and Therm 5.2 software (LBNL), 2000-2003
- 9. Annual energy performance (stars and % improvements) calculated using Nationwide House Energy Rating Software (AccuRate)
- 10. Results disclosed at National fenestration Rating Council (NFRC) regulations





# Test Results

Structural Test Report

# LABORATORY TEST RESULTS: KlassicView 53mm Double Hung Window

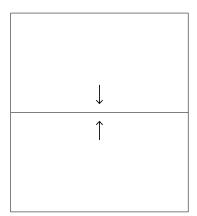
The following data was obtained from the results of the tests on the KlassicView 53mm Double Hung Window as performed in the Azuma Testing Laboratory (NATA Accredited).

Test Report No.: AZT0224.14

Date: 23/07/2014

Test Size: 1500mm H x 900mm W

Jamb Type: RWD028 Subsill Used: No



### Test: Deflection Test

Results: The test unit satisfied the requirement of AS 2047.1 in both positive and negative deflection at the nominated design pressure of 1800 Pa at 1/180 deflection ratio.

### Test: Air Infiltration Test

Results: The test unit satisfied the requirements of AS 2047.1. The unit passed 75Pa and 150Pa air pressure in the sealed and unsealed states. Results were as follows:

- 0.50 L/s.m<sup>2</sup> @75Pa Positive
- 0.28 L/s.m<sup>2</sup> @75Pa Negative
- 0.26 L/s.m<sup>2</sup> @150Pa Positive
- 0.45 L/s.m<sup>2</sup> @150Pa Negative

### Test: Operating Force

Results: The test unit satisfied the requirement of AS 2047.

- Opening force was initiated at 85N and sustained at 41N.
- Closing force was initiated at 60N and sustained at 27N.

For Sash 2:

- Opening force was initiated at 52N and sustained at 60N.
- Closing force was initiated at 14N and sustained at 42N.

### **Test: Water Penetration**

Results: The test unit satisfied the requirement of AS 2047 in positive pressure at the maximum pressure of 200Pa.

### Test: Ultimate Strength Test

Results: The test unit satisfied the requirement of AS 2047 at the maximum pressure of 2700Pa Positive and Negative.



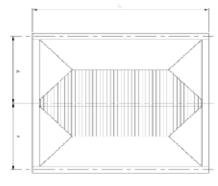
# Strength Charts

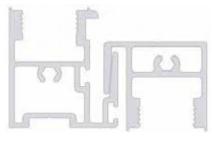
# Interlock Strength Chart: RWD032 + RWD033

25.03 I - moment of inertia y - max depth of section from N axis E- Modulus Ultimate stress

13.5 69 110

Z - Section modulus 1.9





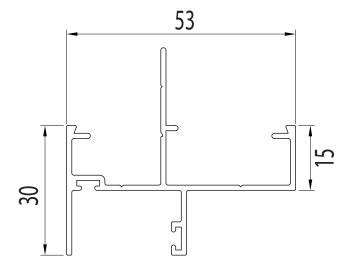
### Mullion/Transom Pressure Ratings (Pa): Symmetrical Panels

Darley	Aluminium	Serviceability =1/150	Serviceability =1/180	Serviceability =1/250	Ultimate = U		Limitations: Serviceability to 5000Pa & Ultimate to 8000Pa				-
		Panel Height (mm) (A)									
Windov	v Width (mm) (L)	650	700	750	800	850	900	950	1000	1050	Serviceability
	300	5000	5000	5000	5000	5000	5000	5000	4470	3733	150
		5000	5000	5000	5000	5000	5000	5000	4470	3733	180
		5000	5000	5000	5000	5000	5000	5000	4470	3733	250
		8000	8000	8000	8000	8000	8000	8000	6705	5600	U
	400	5000	5000	5000	5000	5000	5000	5000	5000	4992	150
		5000	5000	5000	5000	5000	5000	5000	5000	4992	180
		5000	5000	5000	5000	5000	5000	5000	5000	4992	250
		8000	8000	8000	8000	8000	8000	8000	8000	7489	U
	500	5000	5000	5000	5000	5000	5000	5000	5000	5000	150
		5000	5000	5000	5000	5000	5000	5000	5000	5000	180
		5000	5000	5000	5000	5000	5000	5000	5000	5000	250
		8000	8000	8000	8000	8000	8000	8000	8000	8000	U
	600	5000	5000	5000	5000	5000	5000	5000	5000	5000	150
		5000	5000	5000	5000	5000	5000	5000	5000	5000	180
		5000	5000	5000	5000	5000	5000	5000	5000	5000	250
		8000	8000	8000	8000	8000	8000	8000	8000	8000	U
	700	4793	4757	4794	4914	5000	5000	5000	5000	5000	150
		4793	4757	4794	4795	4795	4795	4795	4795	4795	180
		3470	3453	3453	3453	3453	3453	3453	3453	3453	250
		7189	7135	7192	7372	7704	8000	8000	8000	8000	U
	800	3352	3260	3205	3187	3206	3266	3373	3373	3373	150
	000	2913	2856	2822	2811	2811	2811	2811	2811	2811	180
		2098	2056	2032	2024	2024	2024	2024	2024	2024	250
		5029	4890	4808	4780	4809	4900	5064	5320	5702	U
	900	2305	2238	2166	2132	2112	2106	2106	2106	2106	150
	300	1921	1865	1805	1777	1760	1755	1755	1755	1755	180
		1383	1343	1300	1279	1267	1264	1264	1264	1264	250
		3751	3604	3495	3418	3372	3357	3373	3423	3512	U
	1000	1590	1534	1489	1454	1413	1396	1385	1382	1382	150
	1000	1325	1278	1241	1211	1178	1163	1154	1151	1151	180
		954	920	893	872	848	837	831	829	829	250
		2922	2786	2677	2593	2528	2483	2456	2447	2457	U U
	1100	1181	1098	1061	1030	1005	976	962	952	946	150
	1100	984	915	884	858	838	813	801	793	788	180
		708	910	004	000	030	013	001	193	700	250
		2348	2227	2120	2046	1001	1020	1000	1861	1844	250 U
	4200	879		2128 783	2046 757	1981 736	1929 718	1889 704	1001	1044	150
1200	1200		840	783	151	/ 30	/18	704			
		732	700								180
		4000	4000	4707	4000	1001	4540	4500			250
		1932	1826	1737	1663	1601	1549	1508			U



# **Section Profiles**

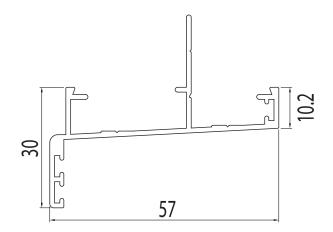
Mainframe Profiles



**RWD029**Double Hung Head

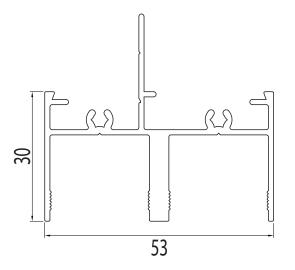
 $I_{xx} = 20.002 \times 10^3 \text{ mm}^4$   $I_{yy} = 57.547 \times 10^3 \text{ mm}^4$ 

A.P. = 328 mmP.P. = 163 mm



**RWD030**Double Hung Sill

A.P. = 291 mmP.P. = 137 mm



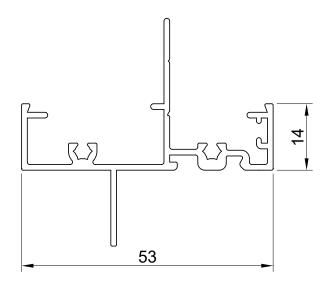
**RWD028**Double Hung Jamb

A.P. = 377 mm P.P. = 201 mm



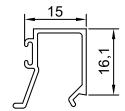


# Mainframe Profiles



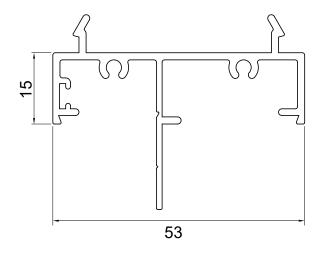
# RWA016 Fixed Light Sill

A.P. = 323 mmP.P. = 124 mm



**RWA017** Fixed Light Glazing Bead

A.P. = 118 mmP.P. = -mm

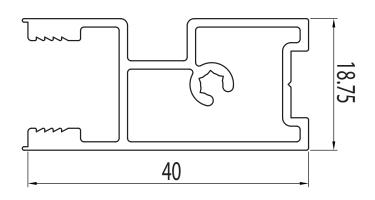


# **RWM044** Frame Extender

A.P. = 317 mmP.P. = 100 mm



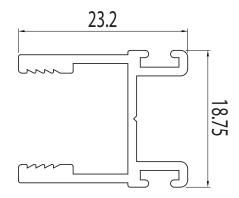
# **Panel Profiles**



# **RWD031**

Sash Rail

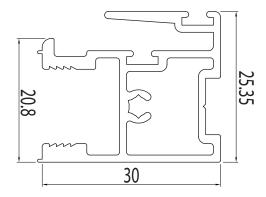
A.P. = 172 mmP.P. = 172 mm



# **RWD034**

Side Stile

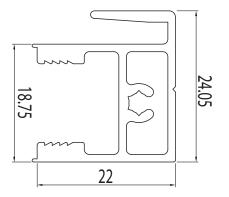
A.P. = 152 mmP.P. = 152 mm



# **RWD032**

Interlock

A.P. = 210 mmP.P. = 210 mm

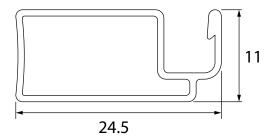


# RWD033 Lock Interlock

A.P. = 154 mmP.P. = 154 mm

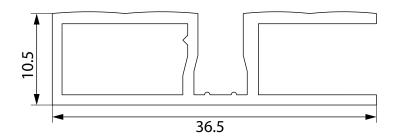


# Flyscreen Profiles



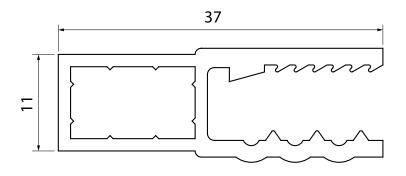
## **HFF180** 11mm Flyscreen

A.P. = 85 mmP.P. = 100 mm



WF001 Standard Security Flyscreen

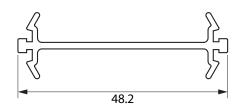
A.P. = 140 mmP.P. = 100 mm



**AU01002** Screenguard Security Screen

A.P. = 152 mmP.P. = 100 mm

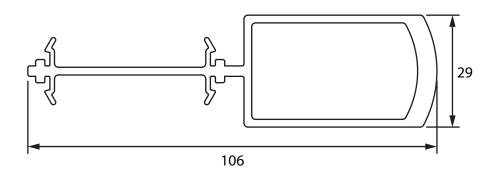




# **RWM040**

Frame Joiner

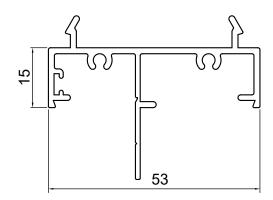
A.P. = 163 mmP.P. = -mm



# **RWM041**

Heavy Duty Frame Joiner

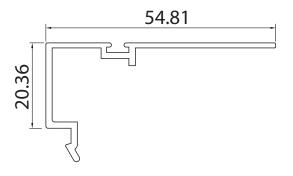
A.P. = 337 mmP.P. = 165 mm



# **RWM044**

Frame Extender

A.P. = 317 mmP.P. = -mm

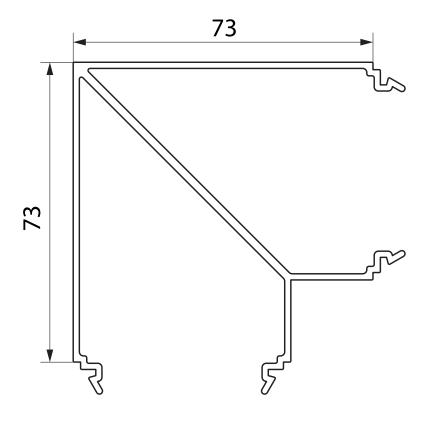


# **KW063**

Inline Reveal Adaptor

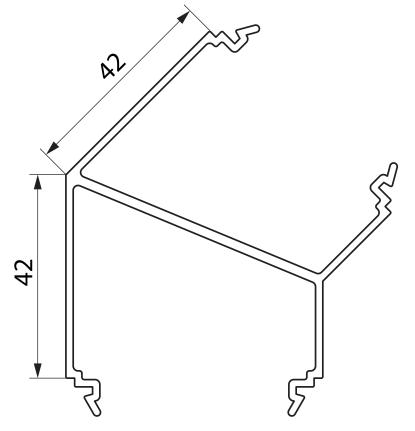
A.P. = 196 mmP.P. = 100 mm





# **RWM042** 90 Degree Corner Post

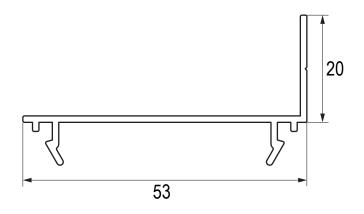
A.P. = 619 mmP.P. = 200 mm



RWM043 45 Degree Corner Post

A.P. = 464 mmP.P. = 138 mm

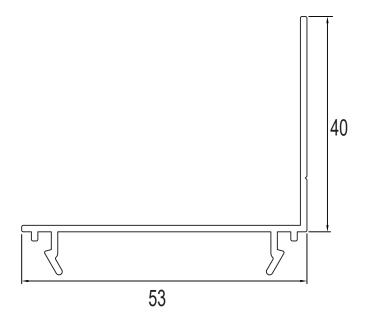




## **RWM045** Face Fix Adaptor

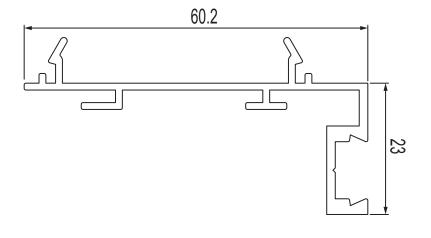
 $I_{xx} = 3.421 \times 10^3 \text{ mm}^4$   $I_{yy} = 38.811 \times 10^3 \text{ mm}^4$ 

A.P. = 187 mmP.P. = 100 mm



**RWM051** 40mm Face Fix Adaptor

A.P. = 227 mmP.P. = 132 mm

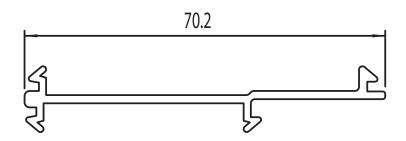


RWM052 Concealed Faced Fix Adaptor

 $I_{xx} = 10.571 \times 10^3 \text{ mm}^4$   $I_{yy} = 68.511 \times 10^3 \text{ mm}^4$ 

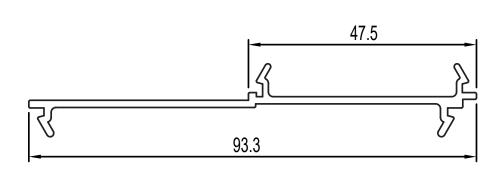
A.P. = 269 mmP.P. = -mm





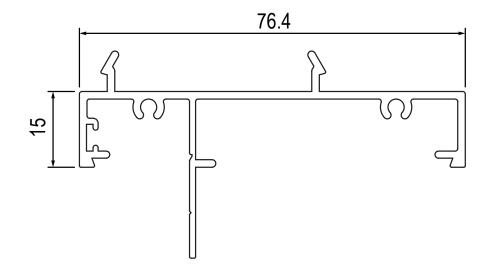
**RWM049** 53mm to 76mm Adaptor

A.P. = 198 mmP.P. = -mm



**RWM050** 53mm to 101.6mm Adaptor

A.P. = 249 mmP.P. = -mm

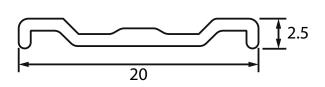


# **RWM056**

53mm to 76mm Frame Extender

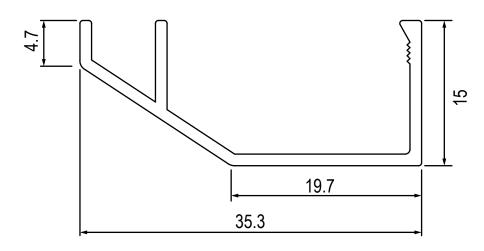
A.P. = 366 mmP.P. = -mm





# **RWM046** Colonial Bar

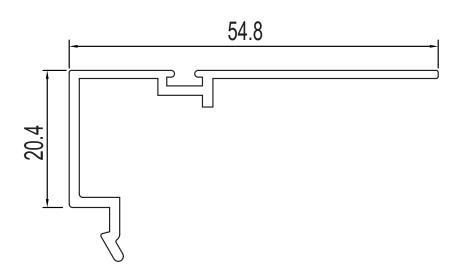
A.P. = 49 mmP.P. = -mm



# **RWM047**

Storm Mould

A.P. = 133 mmP.P. = -mm

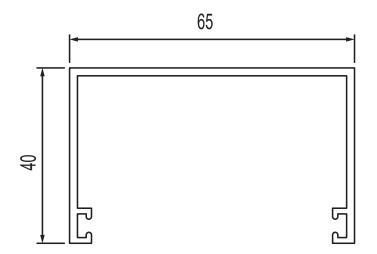


# **KW063**

Inline Reveal Adaptor

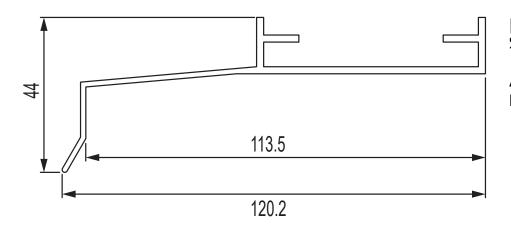
A.P. = 196 mmP.P. = -mm





# RWM054 Subhead

A.P. = 320 mmP.P. = 155 mm



# RWM055 Subsill

A.P. = 380 mmP.P. = 113 mm





# Maintenance & Warranty







# Darley Aluminium

are long standing members of various industry associations including the Australian Window Association (AWA), Window Energy Rating Scheme (WERS) and HIA and as such we conform to an Industry Code of Conduct designed to protect consumers.

# Manufacturing Standards;

All aluminium extrusions supplied to by Darley Aluminium have been supplied in accordance with Australian Standard AS1866 - 'Aluminium and Aluminium alloy: Extruded rod, bar, solid and hollow shapes'. All Anodised and Painted Extrusions are as per AS1231 Aluminium and Aluminium Alloys - 'Anodic Oxidation Coatings' and AS3715 - 'Metal Finishing-Thermoset Powder Coatings for Architectural Applications of Aluminium and Aluminium Alloys'.

# Product Testing and Compliance;

Darley Aluminium products are tested in NATA accredited independent laboratories to ensure they meet the relevant Australian Standards. Energy ratings can also be found on the Window Energy Rating Scheme (WERS) website:

https://www.awawers.net/index.php/en/res





### Maintenance & Warranty

# Warranty

Darley Aluminium, Door & Framing extrusions are warranted for a period of 6 years as per AS20147 requirements, unless otherwise specified.

Powder coat and ANodised finished can be warranted for extended periods subject to application.

Warranty is subject to the following conditions:

- The product is installed in accordance with the relevant Building Codes practices and maintained as per the recommended Care & Maintenance.
- The product has not been subject to misuse, physical abuse or neglect.
- Claims under this warranty should be made within one month of defect arising in the product.
- A documented maintenance schedule is required to obtain extended warranty.

### Care & Maintenance

- A gentle wash with a soft non-abrasive brush or cloth using a mild detergent followed by a fresh water rinse will maintain the long term performance of the powder coat or anodised finish.
- If paint splashes, sealants or other residue need to be removed, then methylated spirits or white spirits can be applied with a soft cloth and gentle wiping only.
- In rural or normal urban environments, cleaning should occur at least every 12 months.
- In areas of pollution, industrial or coastal areas back one kilometre from the water, cleaning should occur at least every 3 months.
- In hazardous locations such as beachfronts, severe marine environments or areas of high industrial pollution, the frequency of cleaning should be increased to monthly.
- Special maintenance may be required in some extended warranty applications.

### Tracks:

Keep tracks free from obstruction and excessive dirt or water.

### **Guides and Spindles:**

To be greased with good quality automotive grease every 6 months.

### **Rollers:**

As per manufacturer's instructions.

### Hinges, Hangers & Flush Bolts:

Visible surfaces should be cleaned using a damp cloth and mild detergent, then wiped dry. Apply a light application of non-corrosive preventative lubricant to all surfaces and internals, using a dry cloth to remove excess. Repeat at intervals no greater than 3 months.

### **Seals and PVC Product:**

An occasional wipe with a damp cloth or a wash with warm soapy water is all that is required.

Simply wipe over the surface with a few drops of methylated spirits on a damp cloth, then polish the surface with a dry, lint-free, non-abrasive cloth.

Ver 3: March 2014

