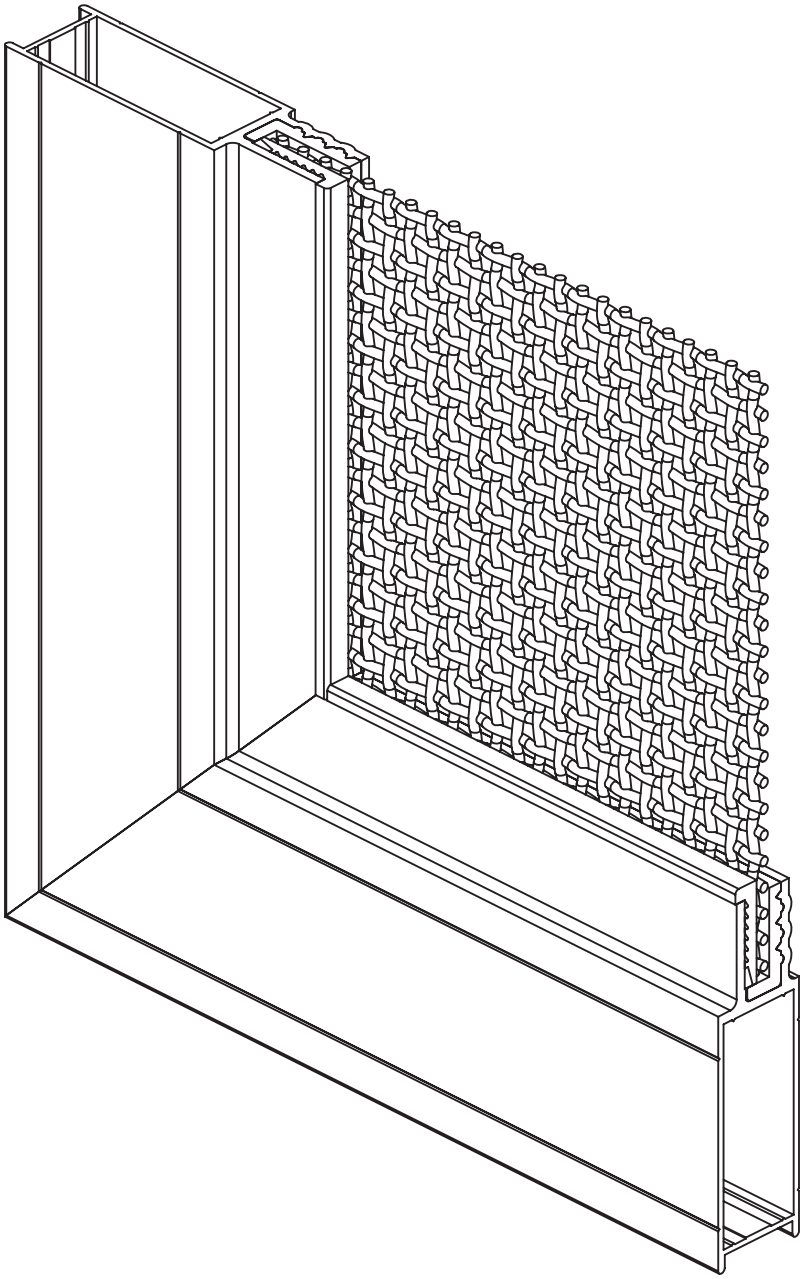
ScreenGuard™
Stainless Steel Security

TECHNICAL MANUAL

ScreenGuard™ Security System

Apeture - 1.64 x 1.64
Open Area - 41.69%



MAY 2026 | Version 1

DARLEY ALUMINIUM

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 Occasionally, some errors or outdated information may require rectification - Darley Aluminium takes no responsibility for any loss or damage as a result of these errors.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).
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 as per AS/NZS 1170.2 (Wind Actions) or AS 4055 (Wind Loads for Housing). 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.

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Contents

Welcome

Overview

ScreenGuard™ security screens and doors are designed, engineered and tested for strength, durability, and quality. Built with high-tensile 316 marine-grade stainless steel mesh, they provide superior protection and resilience. The unique aluminium frames are tempered to T6, ensuring maximum strength and durability. To enhance durability, the stainless steel wire mesh is coated with a specialised UV protective finish, offering a clear, long-lasting appearance. ScreenGuard™'s patented security system meets and exceeds the rigorous Australian Standard AS 5039-2023, making it a trusted choice for security and peace of mind.

Design Features

- No expensive machinery to manufacture
- Easy to fabricate, saves you cost on time and labour
- Use of 316 marine grade stainless steel security mesh, low maintenance
- Competitive purchasing prices
- Sales Brochures for retail assistance
- Both nylon and metal corner stakes tested

Technical Specification

Frame Type	6063 - T6 (Alloy Frame Temper)
Mesh Type	316 Grade Stainless Steel High-Tensile Woven Security Mesh
Wire Diameter	0.8 mm (1.6mm overall sheet thickness)
Mesh Count	11 x 11 strands per inch
Aperture Size	1.64 mm x 1.64 mm (excluding coating)
Open Area	41.69% (excluding coating)
Warranty	10 year powder coat warranty on mesh*

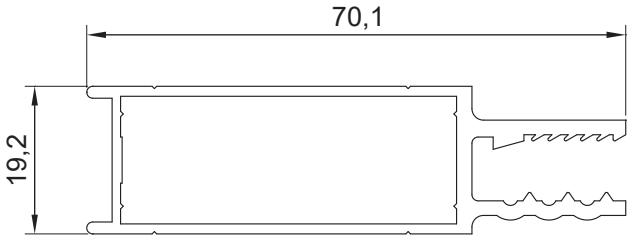
Performance Summary

AS5039:2023

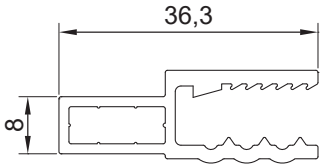
FIRE ATTENUATION
AS 1530.4 Appen. B7

SALT BATH TESTING
AS 2331.3.1

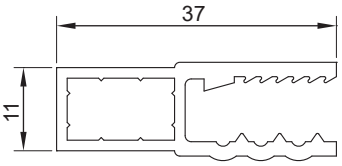
Security Frames



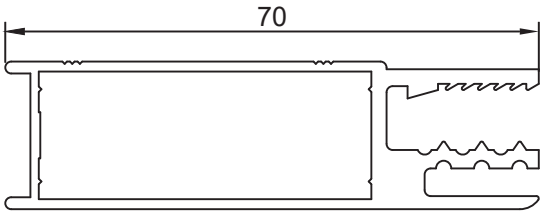
AU01001
Security Door Frame



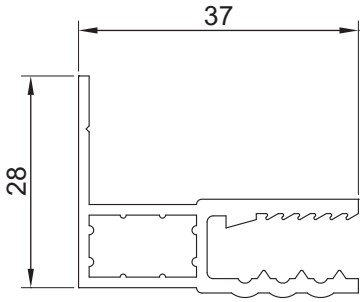
AU01003
8mm Security Window Frame



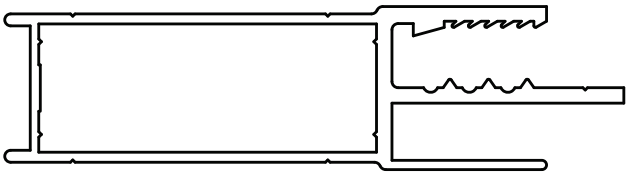
AU01002
11mm Security Window Frame



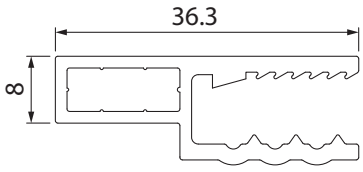
AU01013
Door Frame with Mesh



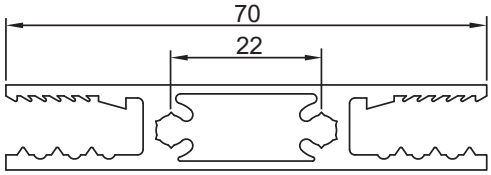
AU01006
Security Window Frame with Leg



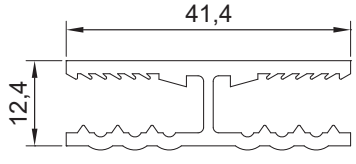
AU01011
Door Frame with Grille (WA Only)



AU01008
8mm Inline Window Frame (WA Only)

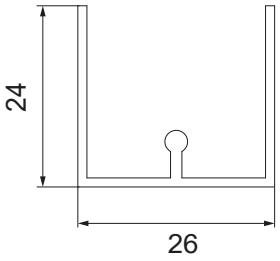


AU01014
70mm Door Midrail

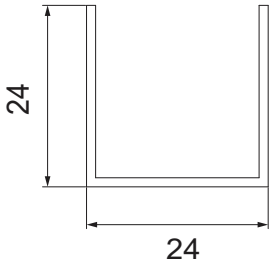


AU01004
41mm Midrail

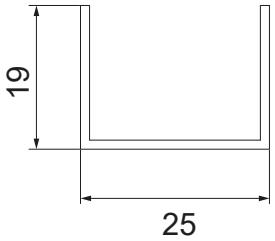
Sliding FlyDoor Frame Profiles



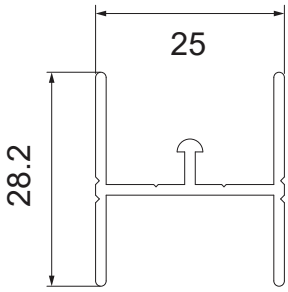
DT3221
Top & Bottom
Sliding Track



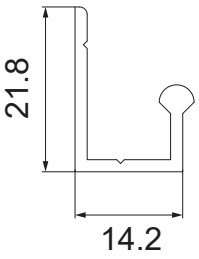
DT3223
U Channel
24 x 24 x 1.2mm



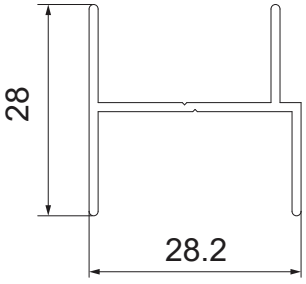
DT3192
U Channel
19 x 24 x 1.2mm



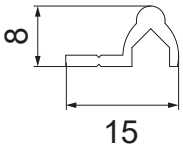
DT3333
Door Single Track



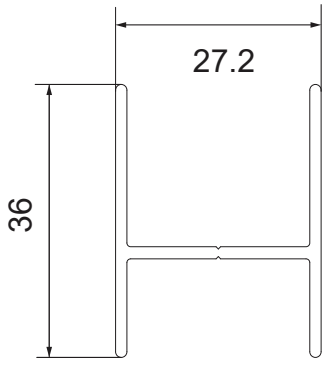
DT3231
J Track



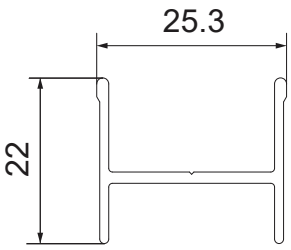
DT3344
Door Jamb /
Offset Receiver



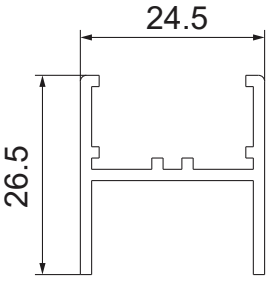
DT3232
PIP Floor Track



DT3202
Large H

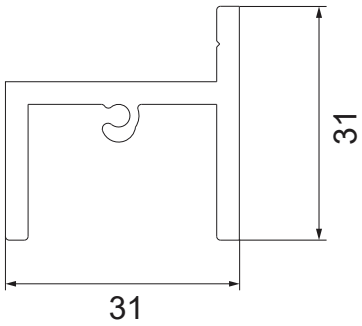


DT3204
H Receiver
Light Duty

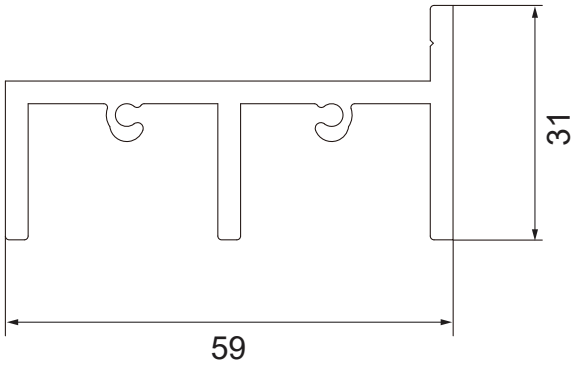


DT3205
H Receiver
Heavy Duty

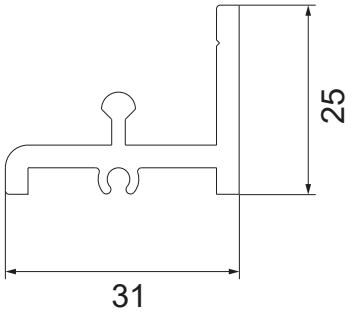
Plant on Sliding FlyDoor Frame Profiles



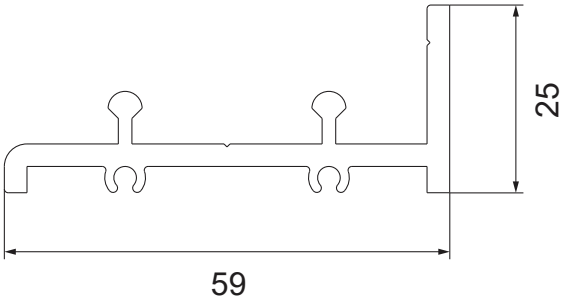
SD421
Single Fly Door Head
Face Fix



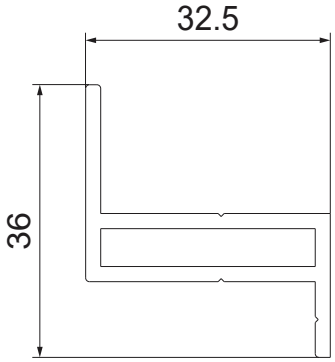
SD621
Double Fly Door Head
Face Fix



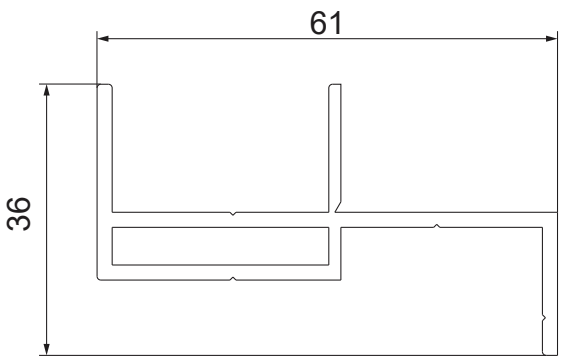
SD422
Single Fly Door Sill
Face Fix



SD622
Double Fly Door Sill Track
Face Fix

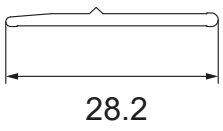


SD425
Single Fly Door Jamb
Face Fix

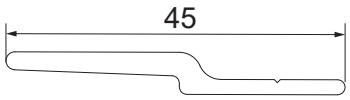


SD625
Double Fly Door Jamb
Face Fix

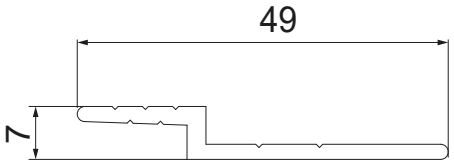
Interlock Profiles



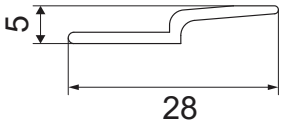
DI3228
Flat Interlock



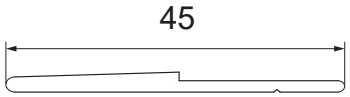
DI3214
HD 3mm
Offset Inerlock



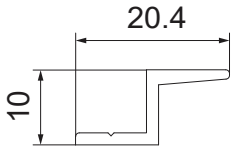
DT3206
7mm Offset Interlock
Extended



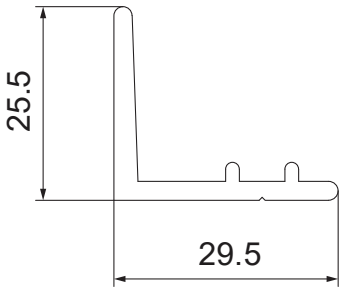
DI3229
3mm
Offset Interlock



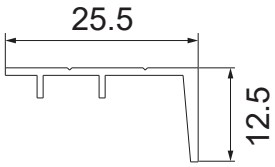
DI3215
Heavy Duty
Flat Inerlock



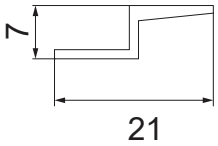
SD626
10mm Offset Interlock
For Arch. Door



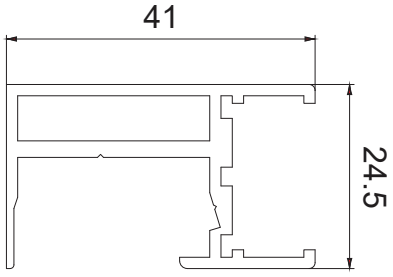
DI3216
Heavy Duty
Frame Inerlock



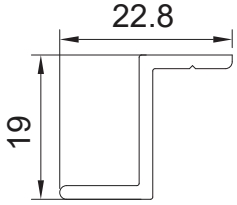
DI3225
Frame Interlock
(Female)



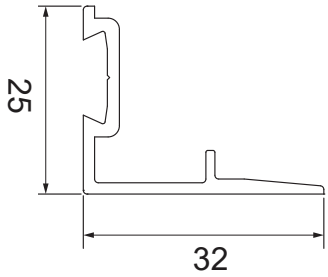
DI3224
7mm
Offset Interlock



DT3207
Corner Receiver

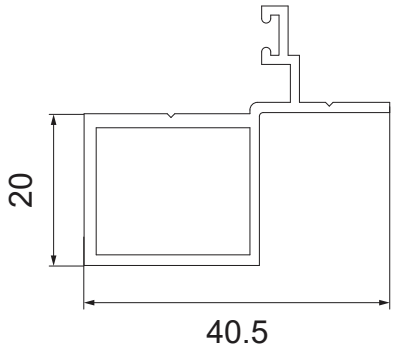


SD620
20mm Offset Interlock
For Arch. Door

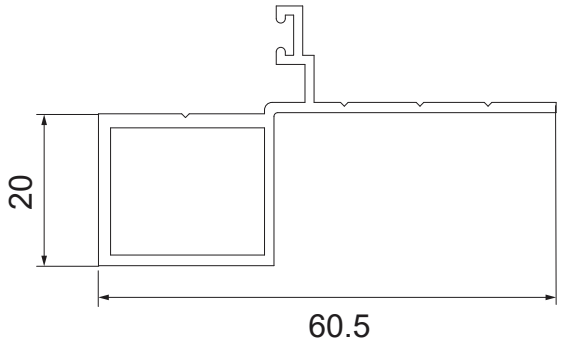


SWD037
Frame Interlock
For Patio Door

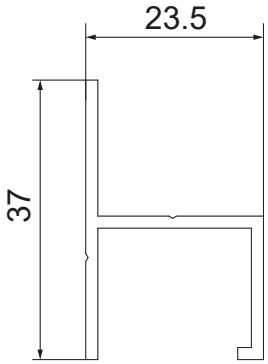
Hinged Security Door Frame Profiles



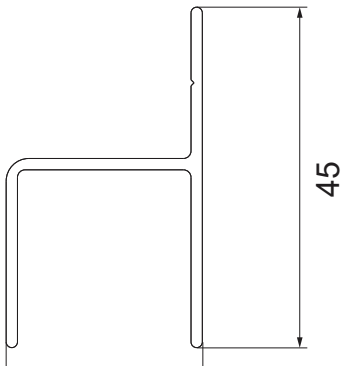
DJ3250
Enclosed Jamb Adaptor Small



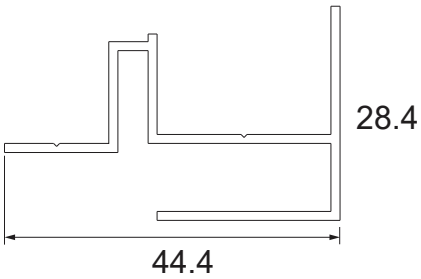
DJ3260
Enclosed Jamb Adaptor



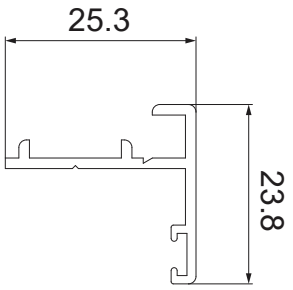
DT3203
Top Track Adaptor



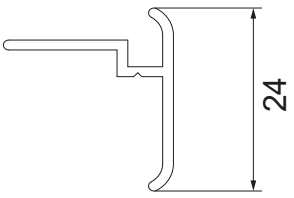
DT3219
Security Top Track



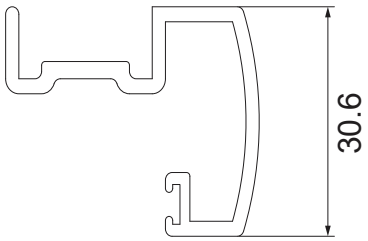
DJ3271
J Jamb Adaptor



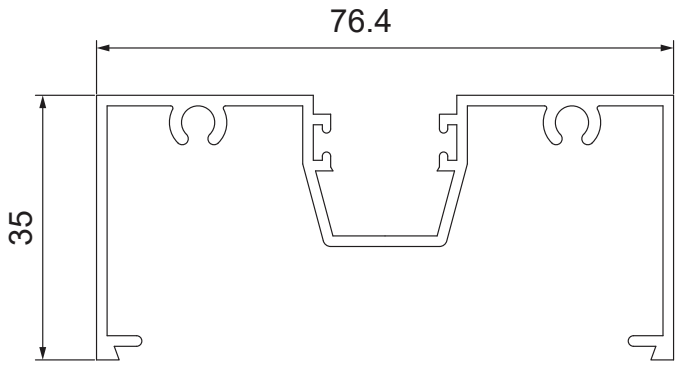
DT3210
T Section Double Door
w/ seal



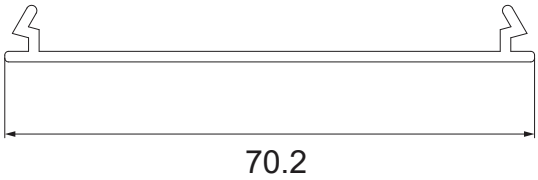
DT3226
Light T Section
Double Door w/ seal



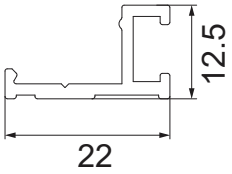
DT3236
Double Door Cover
Heavy Duty



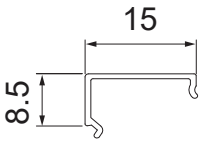
TJ701
76mm Mainframe



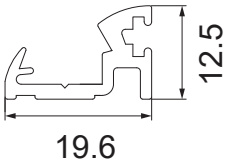
TJ705
76mm Frame Flush Adaptor



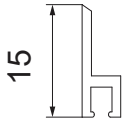
JM2810
Plant on Door Stop



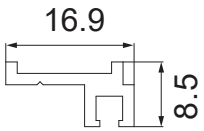
1688
PVC Cover for JM2810



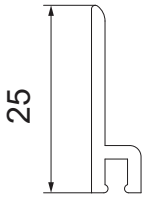
TJ773
Plant on Door Stop



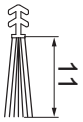
DB3222
15mm Bug Strip Retainer



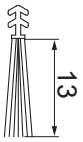
DB3223
Underdoor Bug Strip Retainer



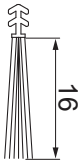
DB3227
25mm Bug Strip Retainer



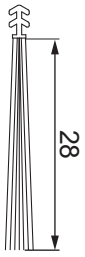
2590
11mm Fringe Pile



2600
13mm Fringe Pile

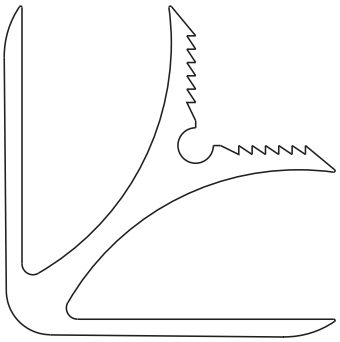


2610
16mm Fringe Pile

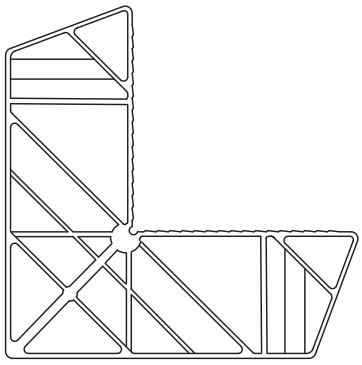


2620
28mm Fringe Pile

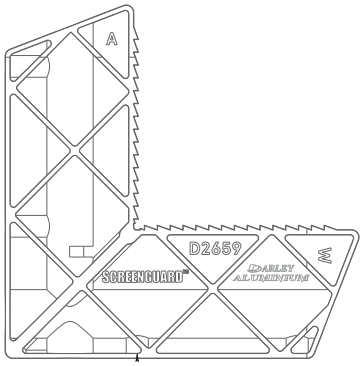
Security Window Frame Profiles



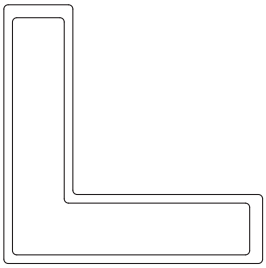
2655
Aluminium Corner Stake
(7.4mm)
To Suit 70mm Door Profiles



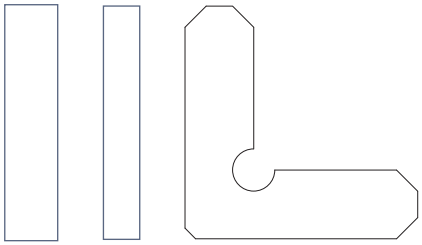
2659
Nylon Corner Stake
To Suit 70mm Door Profiles



D2659
Flush Bolt Corner Stake
To Suit 70mm Door Profiles

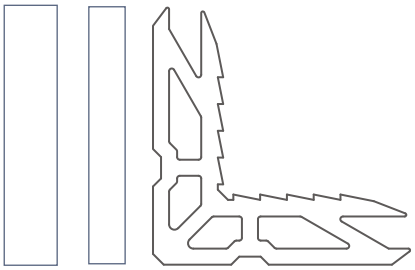


2691
Corner Stake
To Suit DJ3250/DJ3260



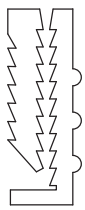
2657
Corner Stake (4.8mm)
To Suit AU1003

2656
Corner Stake (7.4mm)
To Suit AU1002

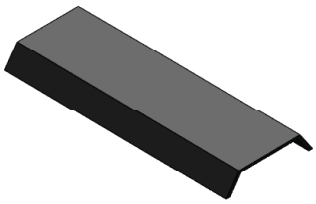


2657-H
Corner Stake (4.8mm)
To Suit AU1003

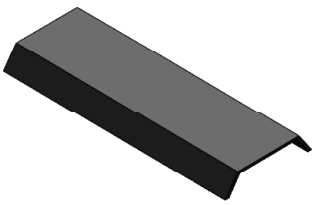
2656-H
Corner Stake (7.4mm)
To Suit AU1002



2510
PVC 2-Part
Wedge / Seat

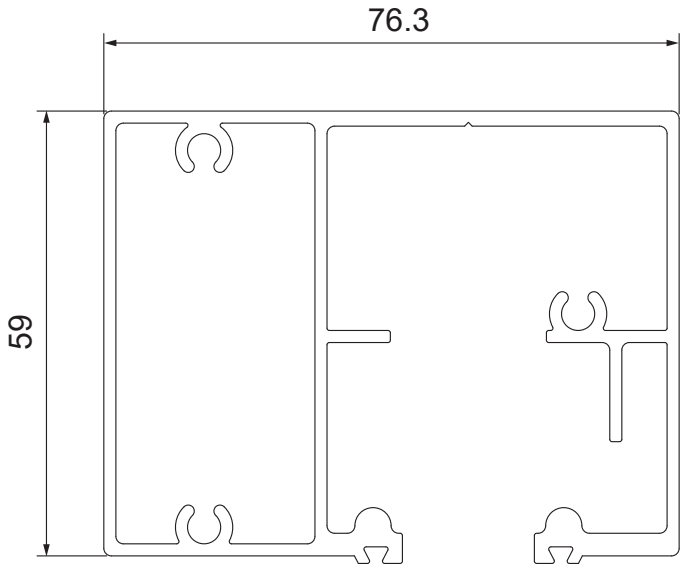


1675
Cover Strip

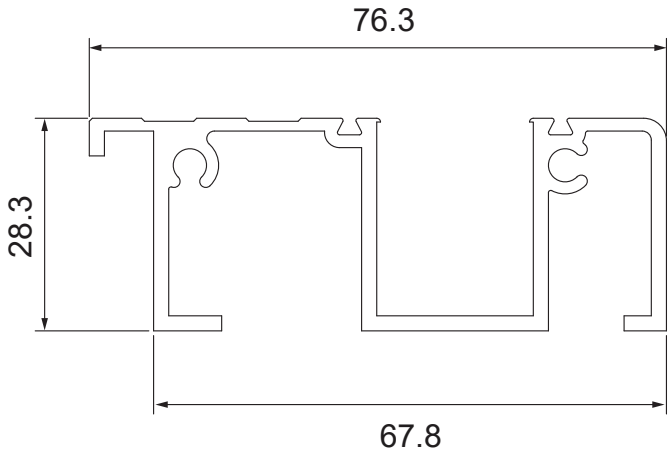


1675-RIG
Rigid Cover Strip

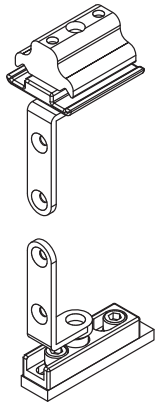
Screenfold Profiles/ Hardware



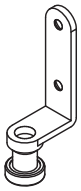
TJ789
76mm Screenfold Head



TJ787
76mm Screenfold Sill

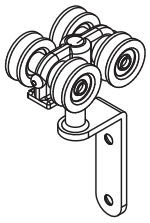


3301
Pivot Assembly Set

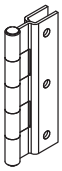


3302
Bottom Guide

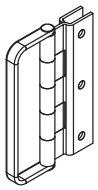
3303
Hanger



3313
Intermediate Hanger



3305
Hinge



3306
Handle Hinge

3314
Multipoint Bolt
140mm

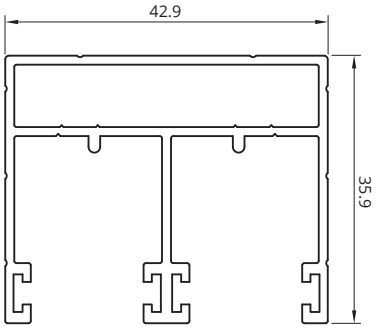
3315
Multifold Bolt
450mm

3316
Maya Bolt

Servery Window Profiles/ Hardware

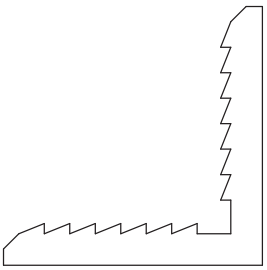
2686

10mm Guide Button



DT3020

Sliding Servery Frame

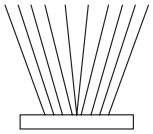


2675

CORNER STAKE
To Suit DT3020

2267-BL

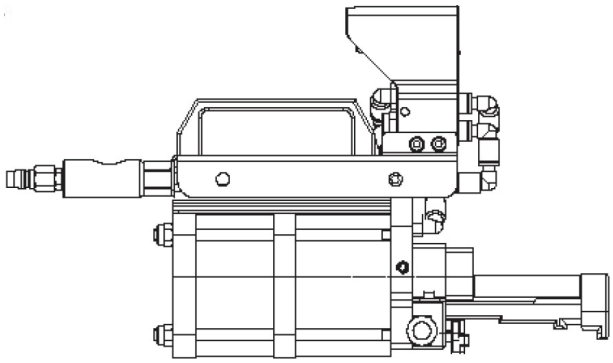
Keyed Severy Lock



1705

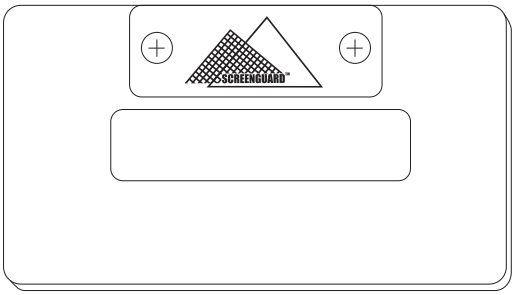
Weatherstrip 5.25mm

Tools and Equipment

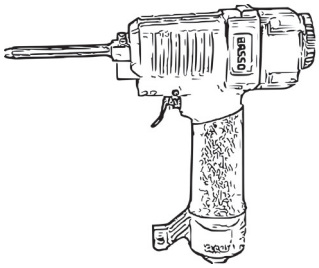


2920
ScreenGuard Air Operated Insertion Tool

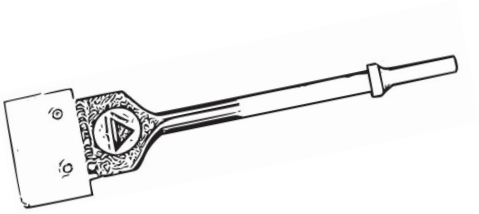
Air Compressor:
Pressure: *Min 8-10 Bar (115-145 Psi)*
Volume: *Min 50-100 L*



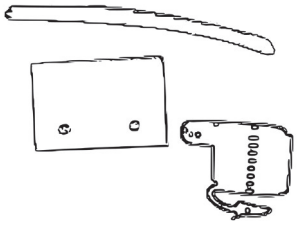
2921
Wedge Insertion Block



2912
Security Window Air Operated Centre Punch



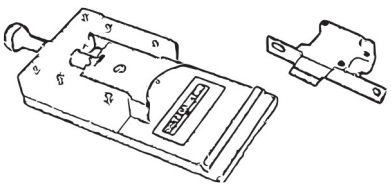
2513
Bit shaft with Moulded Block To Suit 2512 Drill
(TO BE DISCONTINUED)



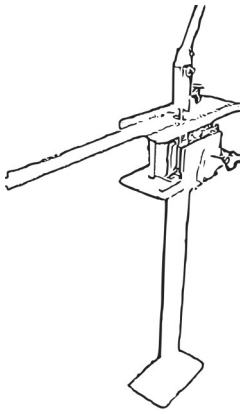
2514
Moulded replacement Block to Suit 2513
(TO BE DISCONTINUED)

2522
70mm Screenguard Midrail Drill Jig

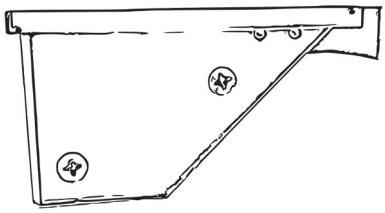
Screenguard Powash 100ml



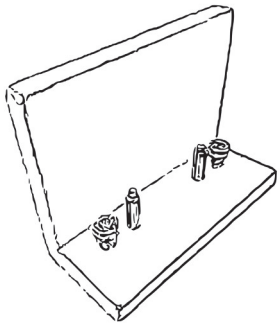
2915
On Site Lock Punch Tool



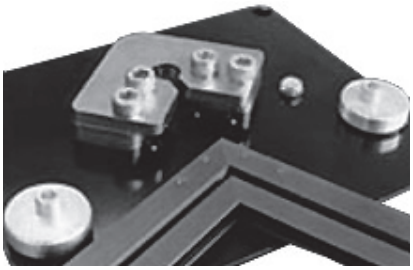
2910-AO
Security Door Punch
With Stand



2917
Drill Jig to Suit
Nylon Corner Stake 2659



2919
Drill Jig to Suit
Security Roller



2914
Window Corner Crimper
(Air Operated)

2910-A
Air-Operated Security
Door Lock Punch

2916-AB
Air Operated Stake Punch
to Suit 2652 & 2659

2532
Attenuation Plates

Penteforce Security Screw
Driver Bit
50 mm **4F-DB-PF050**
150MM **4F-DB-PF150**

4S-FH1022SD-GAL
Flat Head Scew
(Self-Tapper, Galvanised, 10g
gauge, 22mm length)

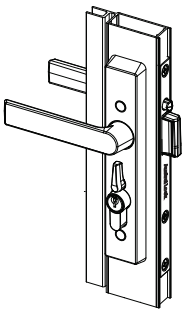
4S-PFPH1825SD-G
Penteforce Security Screw
(Self-Tapper, Galvanised, 8g
gauge, 25mm length)

Hinged Door Hardware

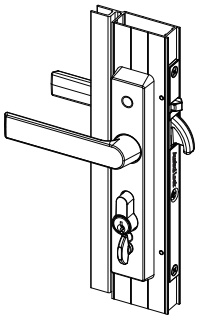
Austral Lock®

2131
AUSTRAL ULTIMATE

2156
AUSTRAL ELEGANCE



4100
AUSTRAL FORGE
PROJECTION BOLT



4120
AUSTRAL FORGE
HOOK THROW

LOCKWOOD

2105 LOCKWOOD 8564

Yale

2103 YALE QUATTRO

AUSTRAL LOCKS	
2131	Ultimate XC Hinged Door Lock - No Cylinder (SJ200)
2131 - 3CH	Cable Ultimate 3 Point High Kit (SJ200)
2131 - CH / S	Cable Ultimate 3 Point Low Kit (SJ200)
2131 - 3CL	Cable Ultimate 3 Point Low Kit (SJ200)
2131 - 3CL/S	Cable Ultimate 3 Point Low Straight Kit (SJ200)
2156	Elegance Hinged Door Lock - No Cylinder
2158	Elegance PUSH2GO Hinged Door Lock
2156 - 3CH	Elegance 3 - Point Cable High Kit
2156 - 3CL	Elegance 3 - Point Cable Low Kit
2156 - 3C - ST150	Elegance 3 - Point Cable Kit Short Top Less 150mm
2157 -3ADJ	Elegance Adjustable 3 - Point Rod Kit
2156 - EXT	Wide Striker Plate For Elegance
4100	Forge Lock Hinged Projection Bolt (Suits 2204/2205)
4120	Forge Lock Hinged Hook Bolt (Suits 2202/2203)

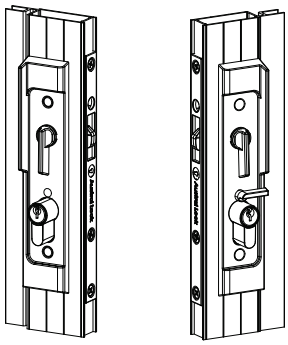
LOCKWOOD LOCKS	
2105	8654 Hinged Sec Door Lock - No Cylinder
2105 - 3HS	8654 High - Sec 3 Point Lock Kit
2105 - 3ST	8654 Standard 3 Point Lock Kit
2105 - 3PK/ PBT	8654 3 Point Lock Kit With Straight Bolts
2105 - EXT	8654 Extra Wide Strike

YALE LOCKS	
2103	YALE Quattro Hinged Security Door Lock (No Cylinder) -BL(Black), WH(White), PR(Primrose)
2103-3ST	Yale Quattro 3-point Lock Kit

SECURITY HINGES	
2400	Security Door Hinges
2420	Hinges Packer 1mm Aluminium
2401	Lockwood 316 Stainless Steel Securtiy Door Hinge
2402	Lockwood 316 Stainless Steel Security Door Hinge with Saftey Prong

HINGE DOOR CLOSERS	
2300	Whitco Hinge Door Closer (18kg max.)
2303	Lockwood 403 Hinge Door Closer - (21kg max.)
2301	Austral Hinge Door Closer - (18kg max.)
2305	Doric Hinge Door Closer (18kg max.)
2372	Lockwood 404 Hydraulic Screen Door Closer (29kg max.)
2302	Austral Heavy Duty Door Closer (26kg max.)

Sliding Door Hardware



4150 Austral Forge

2151 Austral SD7

2153 Austral SD9

2155 Lockwood 8653

2154 YALE QUATTRO

AUSTRAL LOCKS	
2151	Austral SD7 Sliding Door - No Cylinder (SJ200)
2151 - 3CH	Austral Cable SD7 3 - Point High Kit (SJ200)
2153	Austral SD9 Horizon Sliding Door
4150	Forge Sliding Security Door Lock (Suits 2204/2205) -BL(Black), WH(White)

LOCKWOOD LOCKS	
2155 - BL	Lockwood 8653 Sliding Door Lock-No Cylinder
2155 -3PT	Lockwood 8653 3 Point Lock Kit
2155 - STK	High Strength Strike to Suit 8653 Lock

YALE LOCKS	
2154-BL	Yale Quattro Sliding Door Lock - No Cylinder (Black)
2154-3ST	Yale Quattro Sliding Door Lock - 3 Point Lock Kit

SECURITY DOOR ROLLERS	
2450	Anthony Innovations: AUZ-fit Security Door Roller
2451	KWIKfit Standard & Offset Roller - 40kg

SLIDING DOOR CLOSERS	
2360	“Easy Close” Sliding Door Closer
2380	“Inventco Water” Sliding Door Closer
2375	Anthony Innovations Soft Door Closer

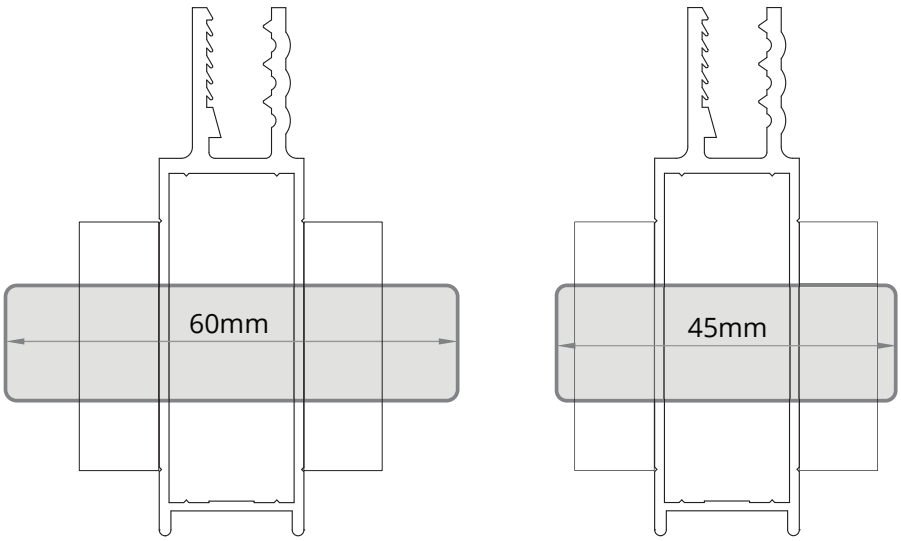
Cylinders and Misc Hardware

AUSTRAL - CYLINDERS	
2204	Pin Cylinder - 60mm Key Alike (Suits SD7 & Elegance Lock)
2205	Pin Cylinder - 60mm Key Differ (Suits SD7 & Elegance Lock)
2202	Pin Cylinder - 60mm Key Alike (Suits Ultimate Lock)
2203	Pin Cylinder - 60mm Key Differ (Suits Ultimate Lock)

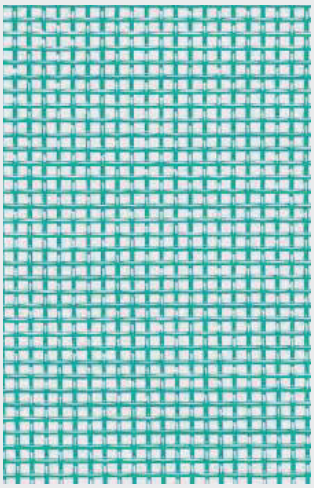
LOCKWOOD - CYLINDERS	
2224	Anti Drill 5 Pin Cylinder - 45mm - K/ALIKE

WHITCO - CYLINDERS	
2200-P	2 x 5 Pin Cylinder - 60mm K/Alike x 10
2201	2 x 5 Pin Cylinder - 60mm K/Differ x 10
2220	2 x 5 Pin Cylinder - 45mm K/Alike x 10
2223	2 x 5 Pin Cylinder - 45mm K/Differ x 10

MISC.	
2290	Whitco Keyed Sliding Push Lock - K/N 32381
2145	Sliding Push Lock, “CYL4” Cylinder
2298	Double Cylinder Deadbolt
2392	Sliding Door Outer Pool
2260 - BL	Whitco 2 Part Flush Bolt - Black
1050	Austral Double Flush Bolt For Security Door
2862	Security Door Top Guide to Suit 23.5mm
2863	Security Door Top Guide To Suit 21.2mm
2685	Security Door Corner Gyide Nylon (Suit DF001/003/006, PTD001)
2686	10mm Guide Button For Servery Track



Stainless Steel Mesh
316 Marine Grade High Tensile



Hole Aperture
= 1.64mm x 1.64mm

Strand Size
= 0.8mm

Airflow Open Area
= 42%

Paint Warranty
10 Year

CODE	SIZE (MM)	FINISH
	MAJOR SIZE	
AU01-7520	750 x 2000	Black
AU01-7524	750 x 2400	Black
AU01-7530	750 x 3000	Black
AU01-9020	900 x 2000	Black
AU01-9024	900 x 2400	Black
AU01-9030	900 x 3000	Black
AU01-1020	1000 x 2000	Black
AU01-1120	1100 x 2000	Black
AU01-1220	1200 x 2000	Black
AU01-1224	1200 x 2400	Black
AU01-1230	1200 x 3000	Black
AU01-1520	1500 x 2000	Black
AU01-1524	1500 x 2400	Black
AU01-1530	1500 X 3000	Black
	WINDOW SIZES*	
AU01-7510	750 x 1000	Black
AU01-7512	750 x 1200	Black
AU01-7515	750 x 1500	Black
AU01-9010	900 x 1000	Black
AU01-9012	900 x 1200	Black
AU01-9015	900 x 1500	Black
AU01-1210	1200 x 1000	Black
AU01-1212	1200 x 1200	Black
AU01-1215	1200 x 1500	Black
AU01-1515	1500 x 1500	Black

Test Results

TESTED STANDARD	TEST SIZE (W X H)	LOCK/SYSTEM	HARDWARE	REPORT NO.
WINDOW GRILLE				
AS5039:2023	1500 x 900	N/A		AZT0224.24
AS5039:2023	900 x 900	KV 53mm Sliding Window		AZT0387.25
AS5039:2023	900 x 900	KV 76mm Sliding Window		AZT0388.25
HINGED DOOR				
AS5039:2023	2040 x 870	Austral Ultimate (2131)	Security Door Hinge (2400)	AZT0222.24
AS5039:2008	2040 x 870	LockWood 8654 (2105)	Security Door Hinge (2400)	AZT0343.20
AS5039:2008	2040 x 870	Austral Elegance (2156)	Security Door Hinge (2400)	AZT0060.12
HINGED DOUBLE DOOR				
AS5039:2023	2040 x 1740	Austral Elegance (2131)*	Security Door Hinge (2400)	AZT0385.25
SLIDING DOOR				
AS5039:2023	2040 x 1250	Austral SD7 (2151)	Security Door Roller (2450)	AZT0223.24

STAINLESS STEEL MESH			
Knife Shear	645 x 645	316 Stainless Steel	AZT0225.24
Salt Bath	2065 Hrs	316 Stainless Steel	22-T0229

FIRE ATTENUATION					
Tested Standard	Test Size (W x H)	Test Duration	Heat Attenuation	Heat Transmission	Report No.
AS 1530.4:2014 Appendix B7	880 x 1980	190min	46%	54%	FRT210145
	1014 x 2114	190min	47%	53%	FRT210145

*Test is for Quattro Lock with Austral F/Bolt

TESTED BY NEUTRAL THIRD PARTIES

AZUMA

warringtonfire

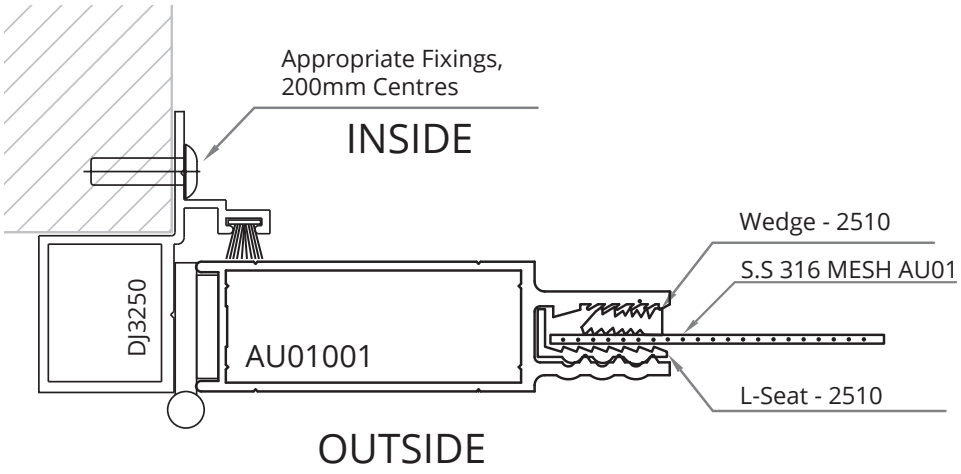
NATA

Security Test Report: Hinged Door

Performance

LABORATORY TEST RESULTS:
ScreenGuard Hinged Security Door – SL200

The following data was obtained from the results of the tests on the Darley Heavy Duty Awning Window as performed in the Azuma Testing Laboratory (NATA Accredited).

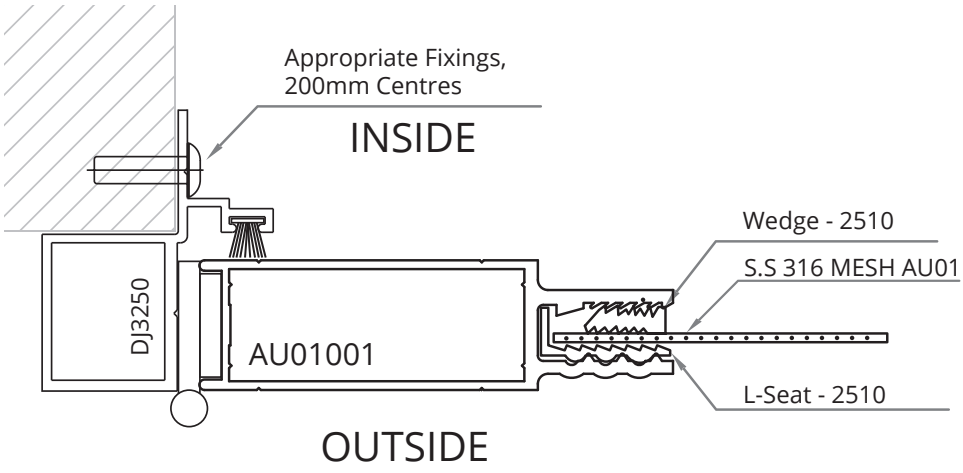


Test & Date	AZT0222.24 - [30/05/24]	
Test Size	2045mm(H) x 870mm(W)	
Hardware	Austral Ultimate Hinged Door Lock (2131) / Security Door Hinge (2400)	
Dynamic Impact Test	100J	PASS
	200J	PASS
Jemmy Test	PASS	
Pull Test	PASS	
Probe Test	PASS	
Shear Test	PASS	
Knife Shear Test	PASS	

Security Test Report: Hinged Door

LABORATORY TEST RESULTS: ScreenGuard Hinged Security Door

The following data was obtained from the results of the tests on the ScreenGuard Security Hinged Door as performed in the Azuma Testing Laboratory (NATA Accredited).



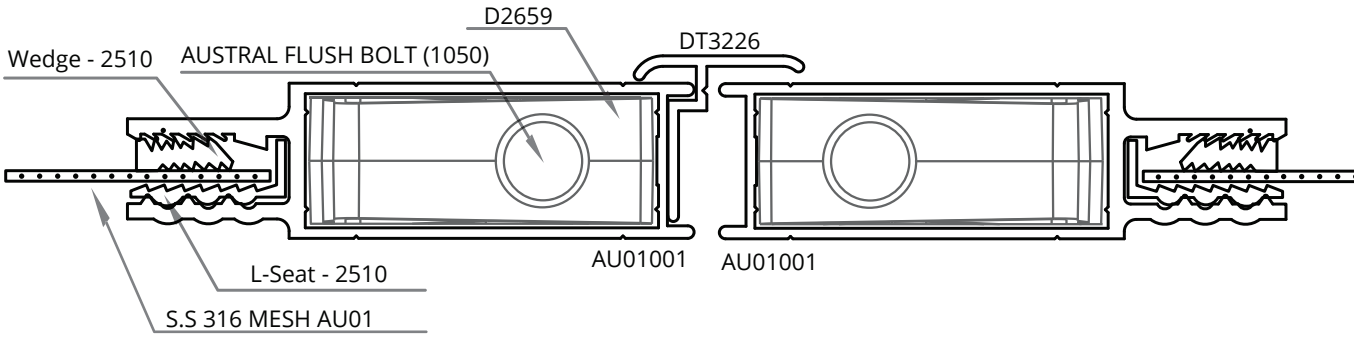
Test & Date	AZT0343.20 - [20/8/20]	
Test Size	2045mm(H) x 870mm(W)	
Hardware	Lockwood 8654 Hinged Door Lock (2105) / Security Door Hinge (2400)	
Dynamic Impact Test	100J	Pass
Jemmy Test	PASS	
Pull Test	PASS	
Probe Test	PASS	
Shear Test	PASS	
Knife Shear Test	PASS	

Security Test Report: Double Hinged Door

Performance

LABORATORY TEST RESULTS:
ScreenGuard Hinged Security Door – SL200

The following data was obtained from the results of the tests on the Darley Heavy Duty Awning Window as performed in the Azuma Testing Laboratory (NATA Accredited).

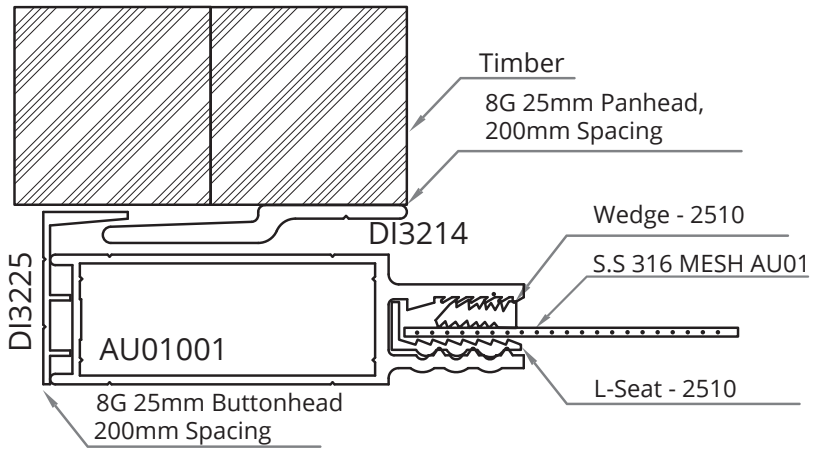


Test & Date	AZT0 - [30/09/25]	
Test Size	2045mm(H) x 1740mm(W)	
Hardware	Austral Ultimate Hinged Door Lock (2131) / Security Door Hinge (2400) / Austral Double Flushbolts (1050)	
Dynamic Impact Test	100J	PASS
	200J	PASS
Jemmy Test	PASS	
Pull Test	PASS	
Probe Test	PASS	
Shear Test	PASS	
Knife Shear Test	PASS	

Security Test Report: Sliding Door

LABORATORY TEST RESULTS: ScreenGuard Sliding Security Door – SL200

The following data was obtained from the results of the tests on the Darley Security Sliding Door as performed in the Azuma Testing Laboratory (NATA Accredited).



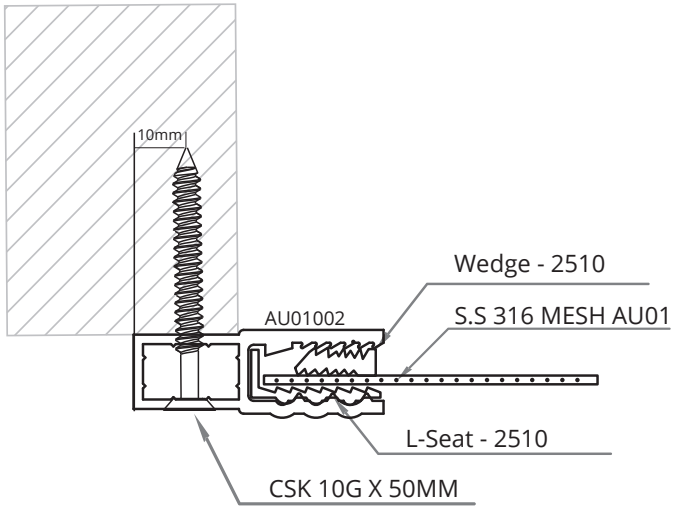
Test & Date	AZT0223.24 - [30/05/24]	
Test Size	2040mm(H) x 1250mm(W)	
Hardware	Austral SD7 + Austral 3pt Kit (2151-3CH) /Security Door Roller (2450)	
Dynamic Impact Test	100J	PASS
	200J	PASS
Jemmy Test	PASS	
Pull Test	PASS	
Probe Test	PASS	
Shear Test	PASS	
Knife Shear Test	PASS	

Security Test Report: Sliding Door

Performance

LABORATORY TEST RESULTS:
ScreenGuard Security Window Grille - SL200

The following data was obtained from the results of the tests on the ScreenGuard Security Window Grille as performed in the Azuma Testing Laboratory (NATA Accredited).



Test & Date	AZT0224.24 - [30/05/24]	
Test Size	1500mm(H) x 900mm(W)	
Hardware	N/A	
Dynamic Impact Test	100J	PASS
	200J	PASS
Jemmy Test	PASS	
Pull Test	PASS	
Probe Test	PASS	
Shear Test	PASS	
Knife Shear Test	PASS	

Security Test Report: Sliding Door

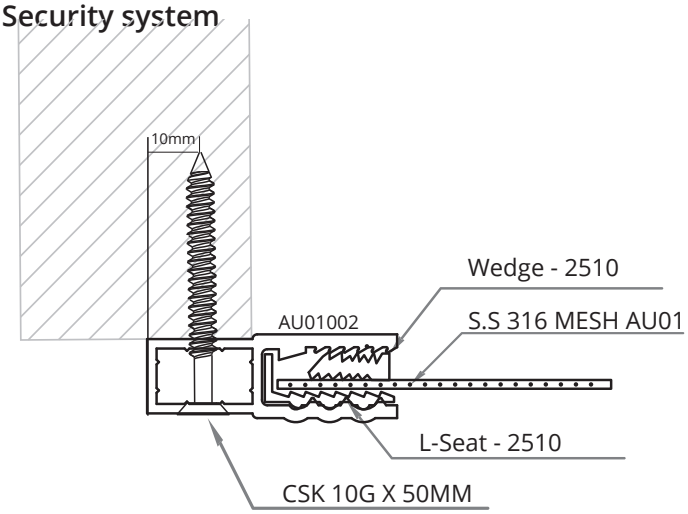
LABORATORY TEST RESULTS: ScreenGuard Knife Shear

The following data was obtained from the results of the tests on the ScreenGuard™ Security Grill – SL200 as performed in the Azuma Testing Laboratory (NATA Accredited).

Test Standard: AS5039 - Tested according to AS 5041-2023

Test Sponsor: Darley Aluminium

Product: ScreenGuard™ Security system



Test & Date	AZT0225.24 - [30/05/24]
Test Size	645mm x 645mm
Material Grade	316 Stainless Steel Woven Mesh
Surface Finish	Powdercoat
Nominal Aperture	1.8 mm

Performance

Attenuation Test Report

LABORATORY TEST RESULTS: ScreenGuard Security Window Grill

Radiant Heat Attenuation Test Report

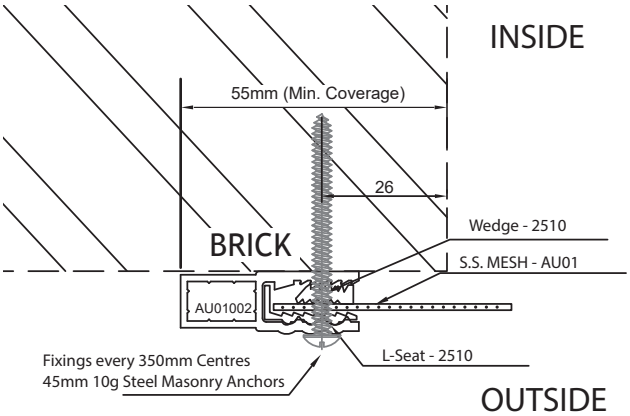
Test Standard: Appendix B7 of AS 1530.4:2014

Test Sponsor: Darley Aluminium

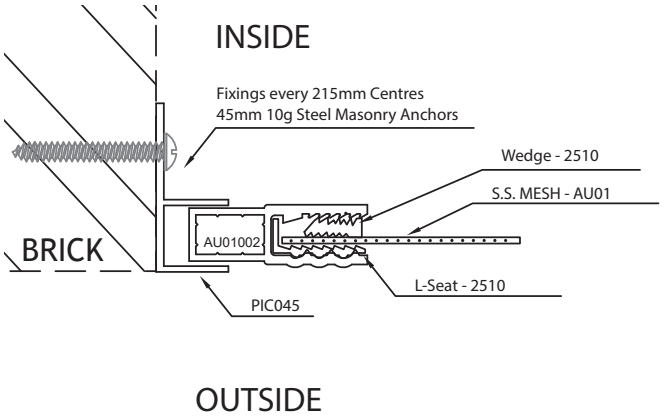
Product: ScreenGuard™ Security system

Fire Resistant Level: 0/190/0

System A - Face Mount



System B - Channel Mount



Test & Date	FRT210145 - [03/06/2021]
Test Size	System A - 880mm (W) x 1980mm (H) System B - 1014mm (W) x 2114mm (H)
Test Duration	190 minutes
System A - Face Mount	
Fraction Transmitted	54%
Fraction Blocked	46%
System B - Channel Mount	
Fraction Transmitted	53%
Fraction Blocked	47%

BAL Rating

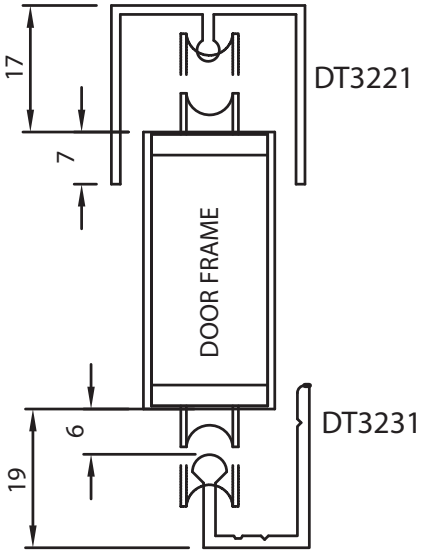
Bushfire Attack Levels achievable with "Deemed to Satisfy" Checklist

Bushfire Attack Level	Description of Predicted Bushfire Attack and Levels of Exposure	
BAL-Low	There is insufficient risk to warrant specific construction requirements	✓
BAL-12.5	Ember attack.	✓
BAL-19	Increasing levels of ember attack and burning debris ignited by windborne embers together with increasing heat flux between 12.5 and 19 kWm2.	✓
BAL-29	Increasing levels of ember attack and burning debris ignited by windborne embers together with increasing heat flux between 19 and 29 kWm2.	✓
BAL-40	Increasing levels of ember attack and burning debris ignited by windborne embers together with increasing heat flux and the increased likelihood of exposure to flames.	✓
BAL-FZ	Direct exposure to flames from fire front in addition to heat flux and ember attack.	x

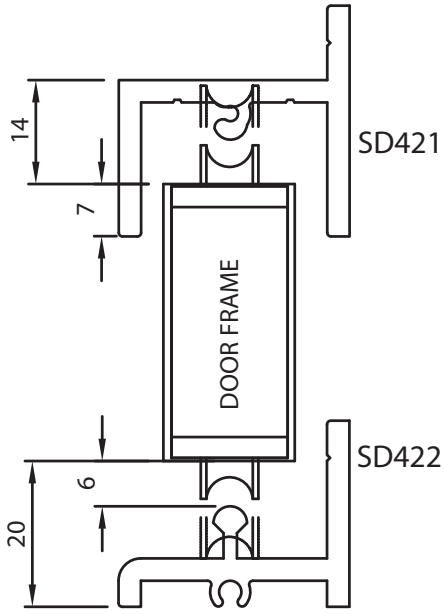
"Deemed to Satisfy" Checklist

	BAL-12.5	BAL-19	BAL-29	BAL-40
FRAME	Low-level framing must be manufactured from either: • Metal, or • Bushfire resistant timber or • Timber species with a density greater than 650 kg/m3 or • Metal reinforced uPVC.	Low-level framing must be manufactured from either: • Metal, or • Bushfire resistant timber or • Timber species with a density greater than 650 kg/m3 or • Metal reinforced uPVC.	Low-level framing must be manufactured from either: • Metal, or • Bushfire resistant timber or • Metal reinforced uPVC.	All framing must be metal.
GLAZING	Low-level glazing must be Grade A safety glass with a minimum thickness of 4mm.	Low-level glazing must be Grade A safety glass with a minimum thickness of 5mm. In all other locations where annealed glass is used, it must be protected by an external screen (see screen requirements).	All glazing must be toughened glass with a minimum thickness of 5mm. Low-level glazing must be protected by an external screen (see screen requirements).	All glazing must be toughened glass with a minimum thickness of 6mm. All glazing must be protected by an external screen (see screen requirements).
SCREENS	Openable portions of windows must be screened either internally or externally. Mesh or perforated sheet with a maximum aperture of 2mm manufactured from either: - Corrosion resistant steel (Screenguard), or - Bronze, or - Aluminium (Perfguard). Supporting frame must be manufactured from either: • Metal (including aluminium), or • Bushfire resistant timber or • Timber species with a density greater than 650 kg/m3.	Openable portions of windows must be screened either internally or externally. Mesh or perforated sheet with a maximum aperture of 2mm manufactured from either: - Corrosion resistant steel (Screenguard), or - Bronze, or - Aluminium (Perfguard). Supporting frame must be manufactured from either: • Metal (including aluminium), or • Bushfire resistant timber or • Timber species with a density greater than 650 kg/m3. Where annealed glass is used, it must be protected by an external screen.	Openable portions of windows must be screened either internally or externally. Mesh or perforated sheet with a maximum aperture of 2mm manufactured from either: - Corrosion resistant steel (Screenguard), or - Bronze, or - Aluminium (Perfguard). Supporting frame must be manufactured from either: • Metal (including aluminium), or • Bushfire resistant timber. Low-level glazing must be protected by an external screen. Screen assemblies must be attached using metal fixings.	Fixed and openable portions of windows must be screened either internally or externally. Mesh or perforated sheet with a maximum aperture of 2mm manufactured from either: - Corrosion resistant steel (Screenguard), or - Bronze. Aluminium mesh or perforated sheet cannot be used. Supporting frame must be manufactured from metal (including aluminium). Screen assemblies must be attached using metal fixings.
SEALS	N/A	N/A	N/A	Seals must be manufactured from silicone or have a flammability index less than 5.
HARDWARE	N/A	N/A	Externally fitted hardware that supports the sash in its functions of opening and closing must be metal unless shielded by metal frame components.	Externally fitted hardware that supports the sash in its functions of opening and closing, must be metal.

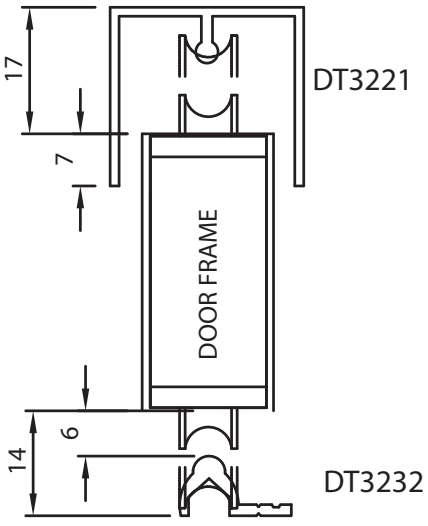
Sliding Door Head and Sill Options



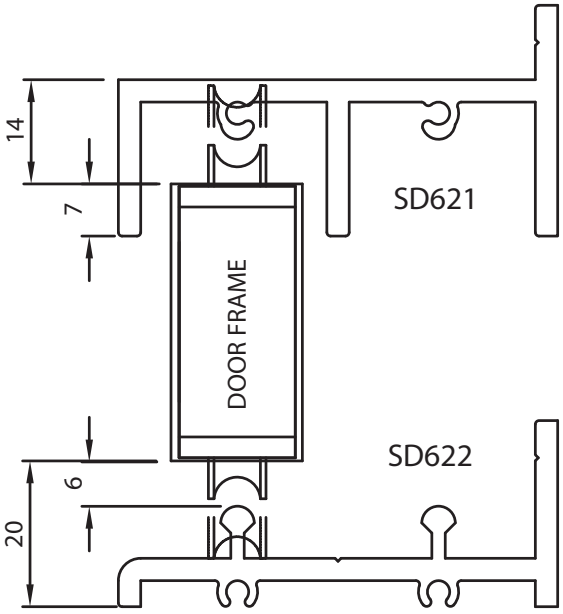
PANEL HEIGHT = H - 36



PANEL HEIGHT = H - 34

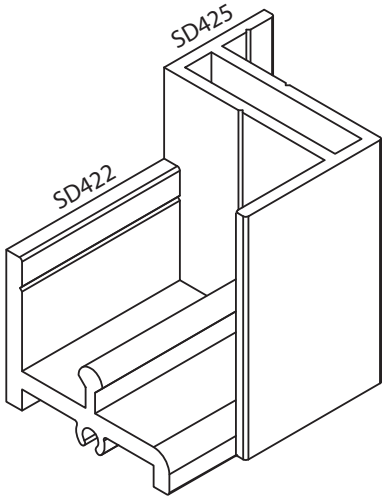


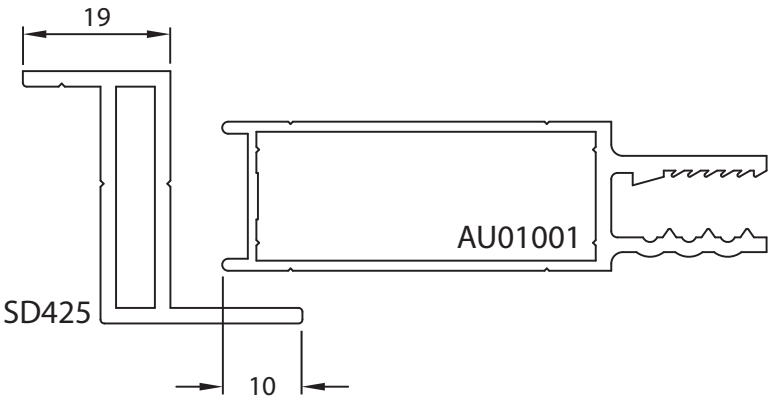
PANEL HEIGHT = H - 31

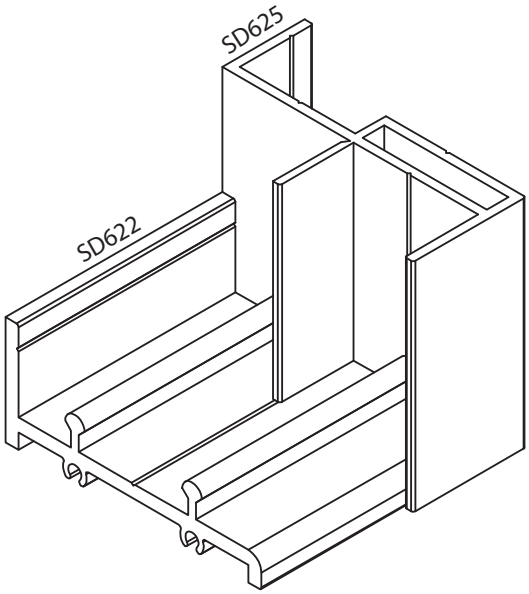


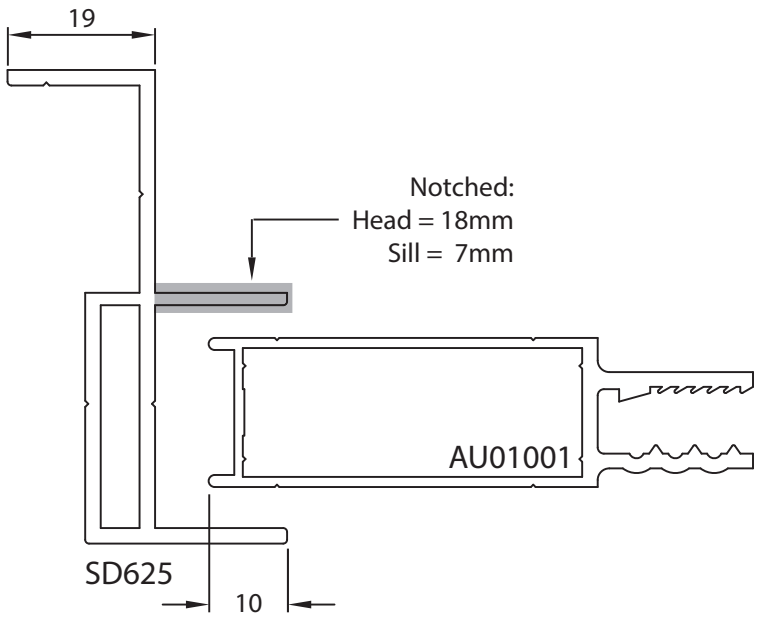
PANEL HEIGHT = H - 34

Sliding Door Jamb Options





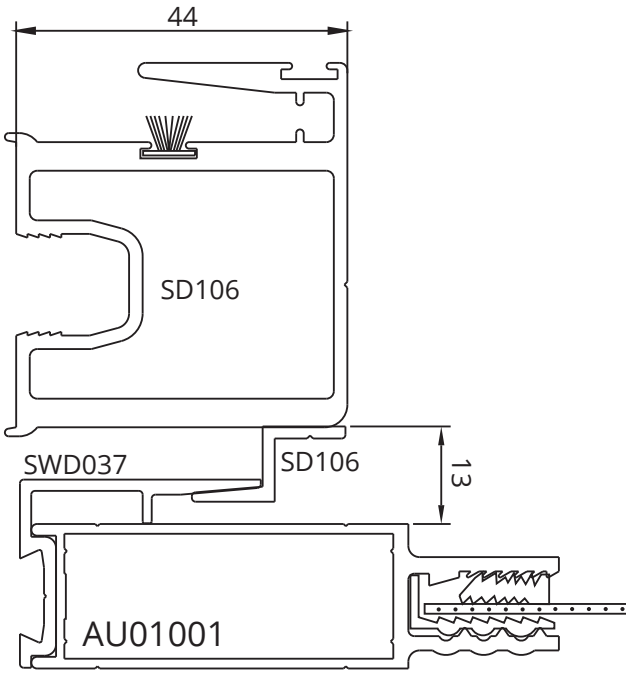




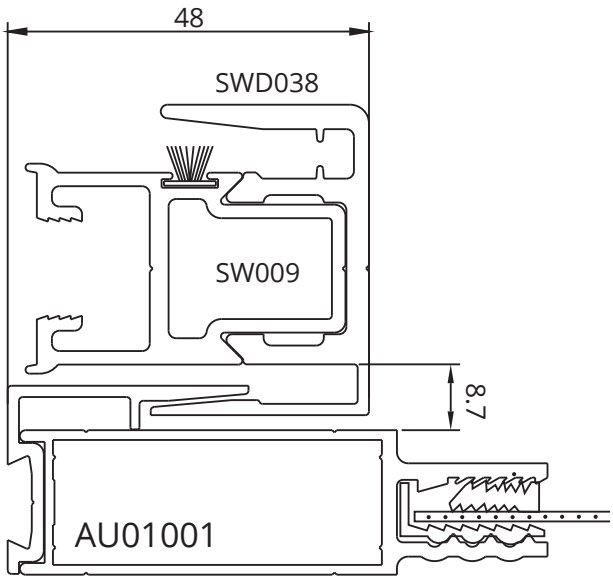
Fabrication

Sliding Door Interlock Options

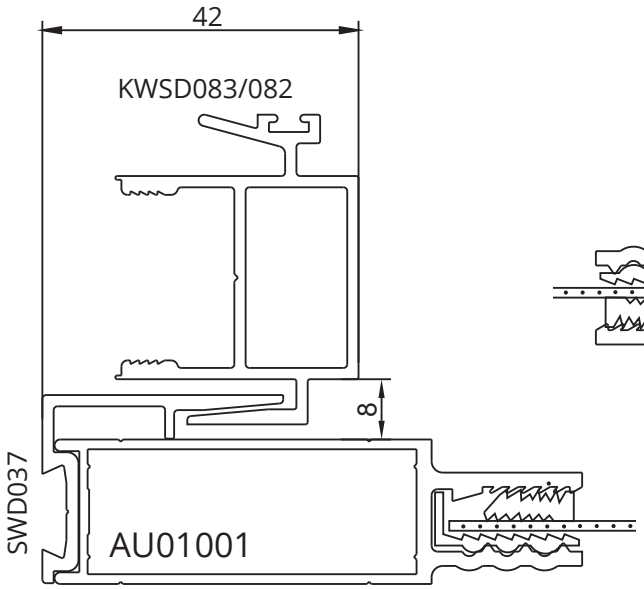
CityView Architectural Door



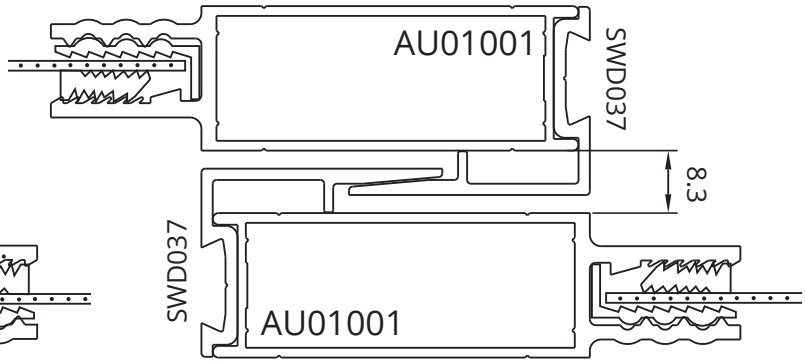
CityView Patio Door



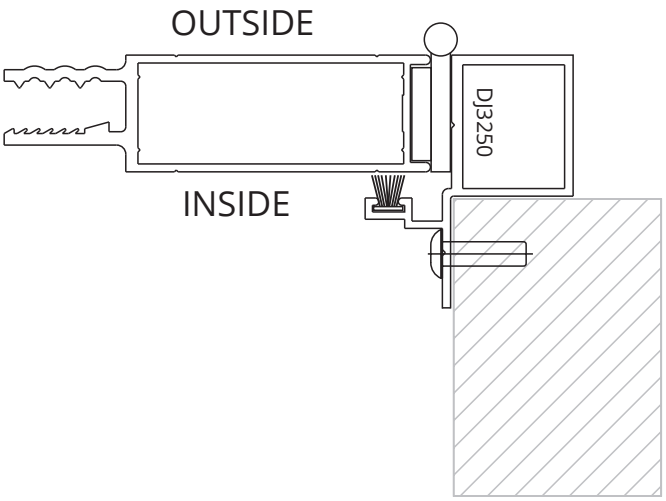
Klassic View Sliding/Stacker

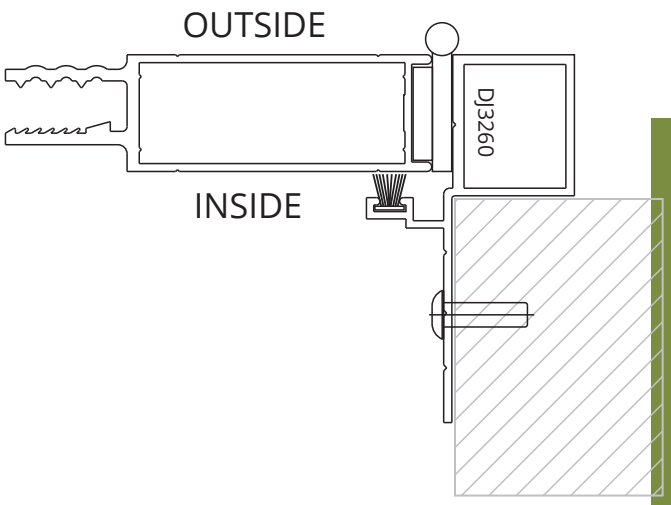


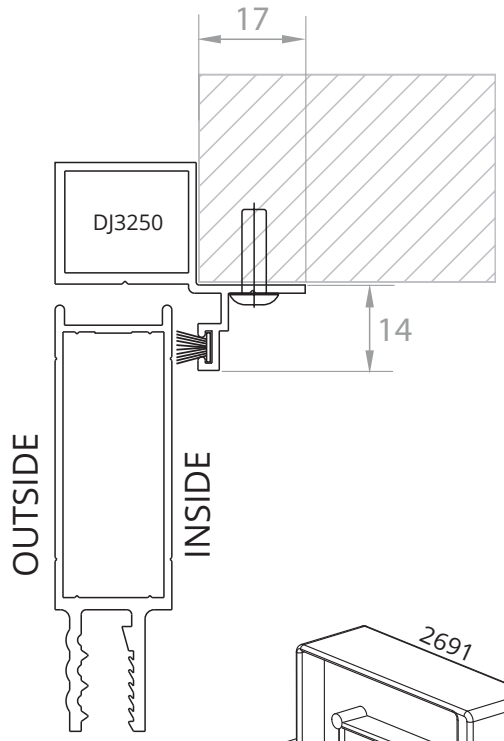
ScreenGuard Interlocking

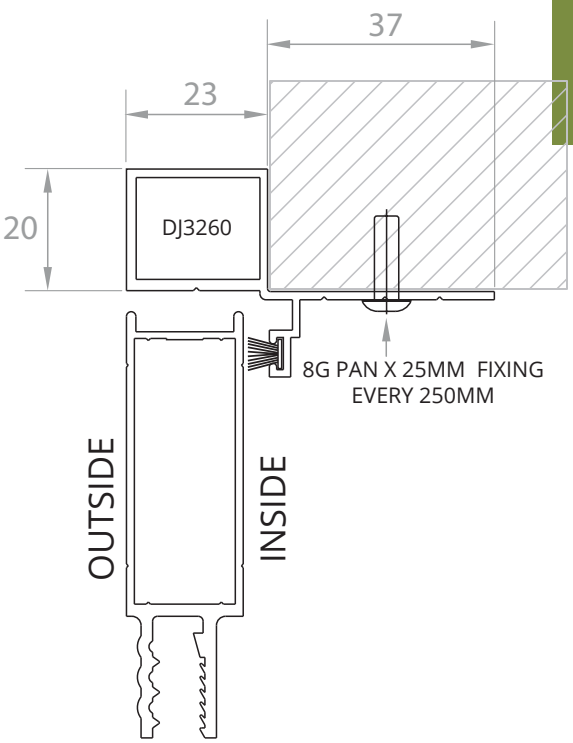


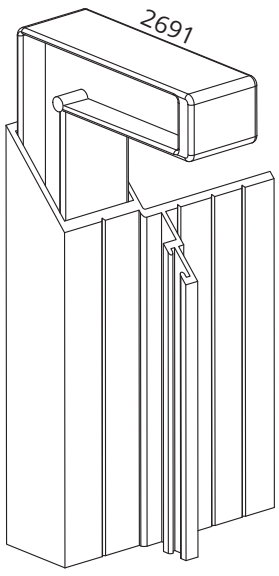
Hinged Door Options











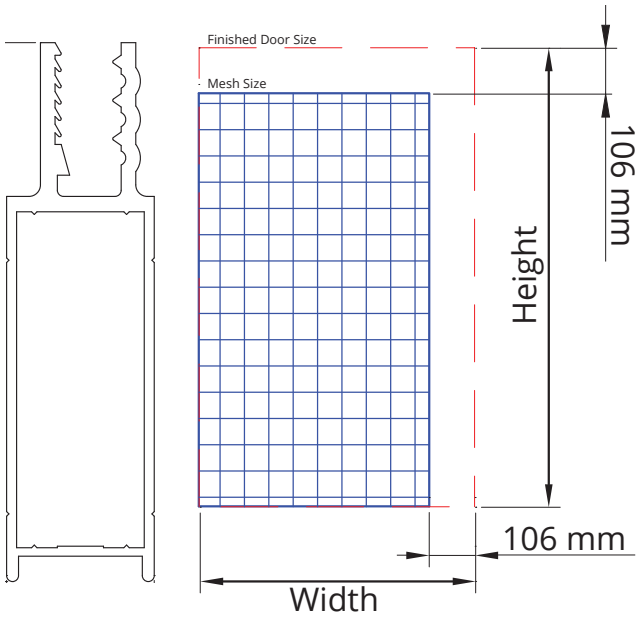
DJ3250/DJ3260

HEAD = OPENING + 40MM
45 MITRED BOTH ENDS

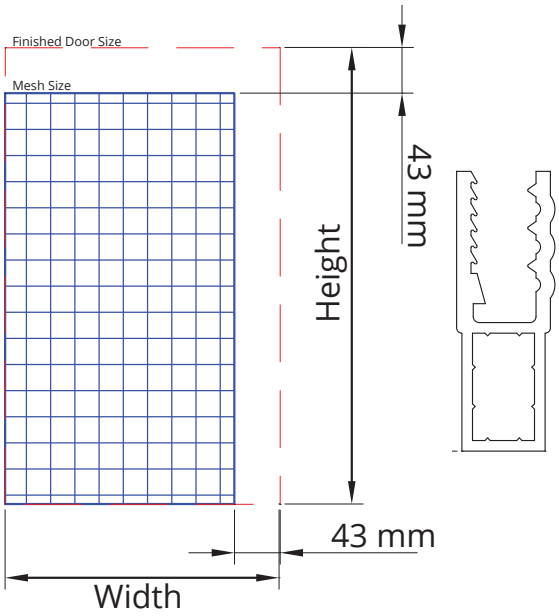
JAMB = OPENING + 20MM
45 MITRED BOTH ENDS

Window and Door Mesh Deduction

Door Size Deductions
(AU01001)

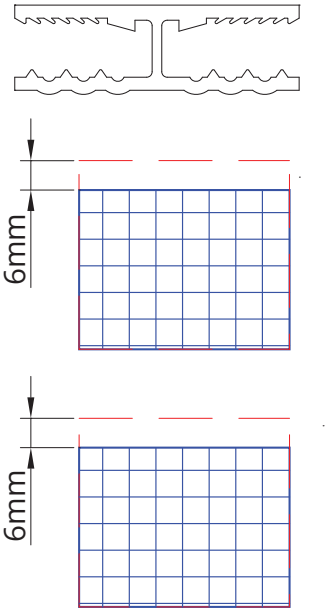


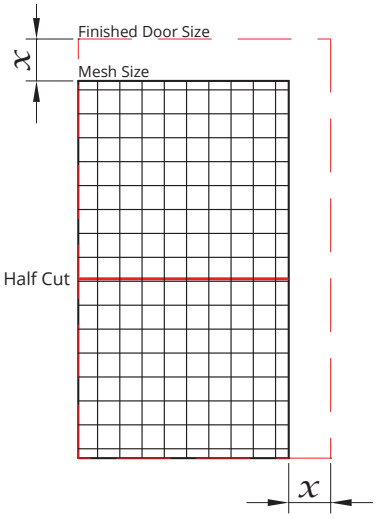
Door Size Deductions
(AU01002/AU01003)



Optional Midrail and Mesh Deduction

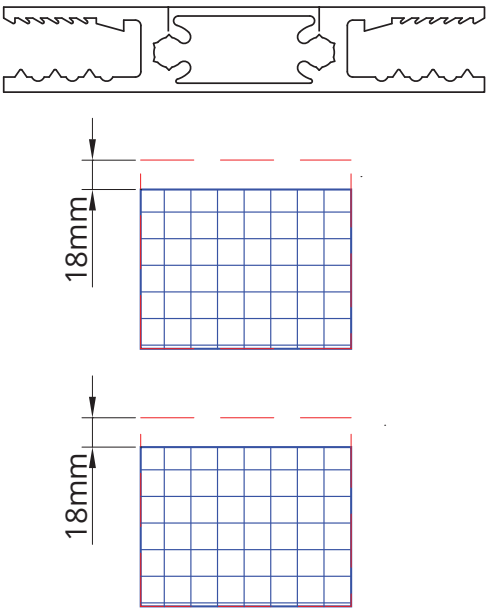
41mm Midrail Deductions
(AU01004)





X = Appropriate mesh deduction (window / door)

70mm Midrail Deductions
(AU01014)



Each half: Less addition 6mm (height only)

Each half: Less additional 18mm (height only)

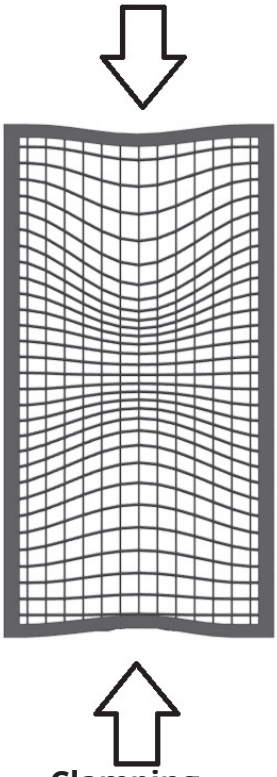
Square cut Midrail AU01004 to 140mm off overall door size using AU01001, or 74mm off overall window size using AU01002. Midrail then inserted between door or window frame.

Rail Pre-Loading (Mesh Bow Reduction)

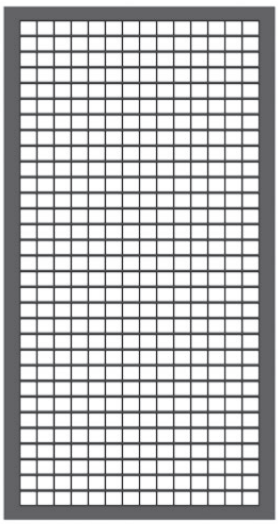
Cutting Formula

	SCREENGUARD HEIGHT	<2100MM	<2400MM	<3000MM
STEP 1	MESH DEDUCTION (H)	H - 110mm	H - 111mm	H - 114mm
	CLAMPING AMOUNT	4mm	5mm	8mm
	SCREENGUARD WIDTH	**<900MM**	**1200MM**	**>1200MM**
STEP 2	MESH DEDUCTION (H)		W - 106MM	
	CLAMPING AMOUNT		W + 4MM	

(STILES FLARE OUT AFTER STEP 1.
HANDHELD AIR TOOL DRAGS STILES IN 2MM EACH SIDE)



Clamping
Prior to wedge insertion



Rail pre-tension pulls mesh taut then wedge stiles

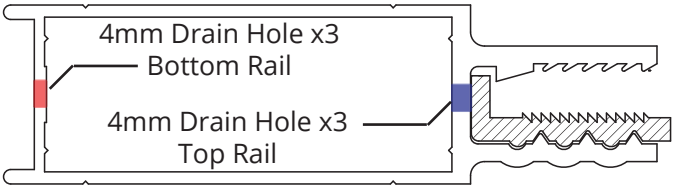
- Screenguard Mesh may not be perfectly flat. In sliding and hinged applications, the mesh can be oriented to avoid any potential fouling, however, in the case of stacking doors, center screen must remain flat.
- Pre-clamping the Prior to wedge insertion allows the frame to straighten the mesh after releasing the clamp.
- It is recommended to pre-tension vertically rather than horizontally for better results. (increased tension)

Assembly

Step 1

Preparing the Frame

After mitring window or door frame to required lengths, drill 3x drain holes to top and and bottom rails



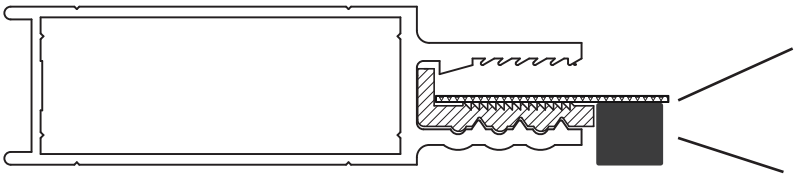
Tip: Apply Lanotec when installing the L seat to make the process easier and faster.

L seat is mitred in corners as per frame. (Ensure L seat is inserted correctly).

Step 2

Inserting the Mesh

Assemble the frame with corner stakes without fixings/ riveting with one side open for the mesh insertion.



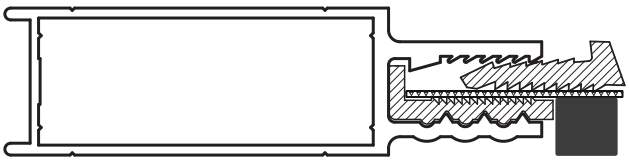
Insert Stainless Steel Mesh.

Sheet to be supported to prevent distortion and to help wedge insertion. 7mm thick high density foam

Tip: After stainless steel mesh has been cut to size, corner tips can be cut at 45 degrees. This will help with the insertion of the mesh.

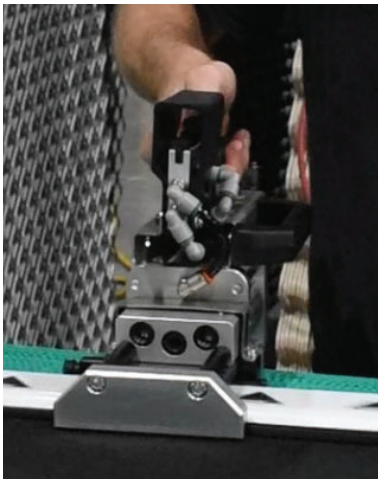
Ensure the mesh is supported with matting throughout the wedge process to prevent sagging as proper tensioning won't be possible after the wedge insertion.
Use 7mm medium- to high-density foam is used to prevent compression under the weight. EVA75 foam is recommended.

Step 3



Tap in wedge using our manual tool, automatic air tool or pneumatic hand tool.

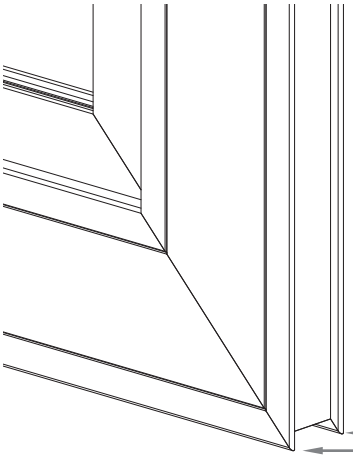
The frames should be clamped as the wedges are being inserted to prevent mesh from bowing.
See Page 33



Tip 1: After the first wedge has been inserted, check and measure your door/window widths (top, center, bottom and diagonals).

Tip 2: Keep your wedge in its original condition, store on a flat surface in a dry cool area.

Extra Instructional Resources



For the opening side of the hinged doors, round the bottom corner to minimise the risk of injuries to the heel for the user.

Click or Scan

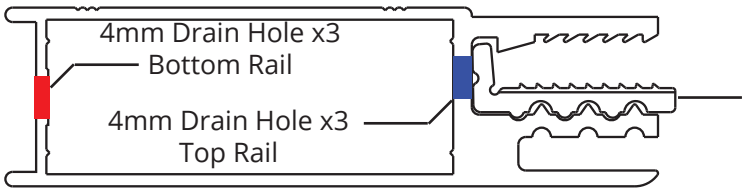
2910 Security Door
Lock Punch Demonstration

Click or Scan

2910 Door Lock Punch &
2916 Air Operated Stake Punch
VS 2920 Hand Air Tool

Assembly for AU01013 with Mesh

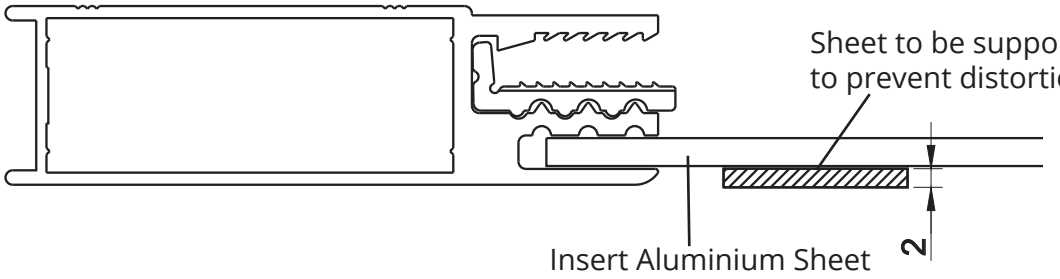
Step 1



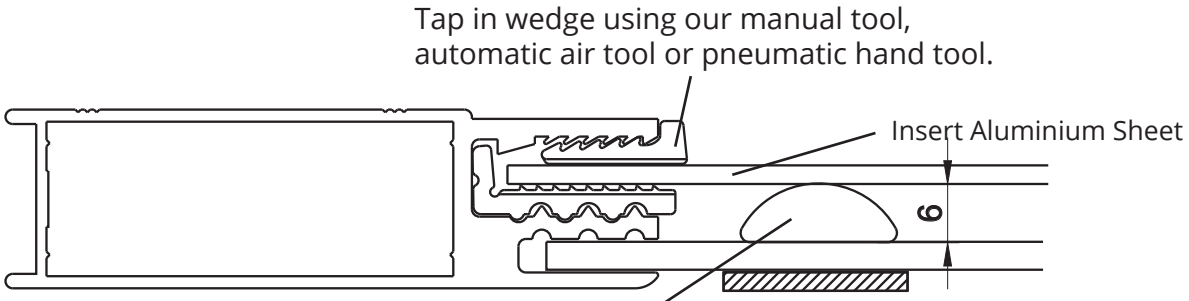
L seat is mitred in corners as per frame.
(Ensure L seat is inserted correctly).

Tip: Apply Lanotec when installing the L seat to make the process easier and faster.

Step 2

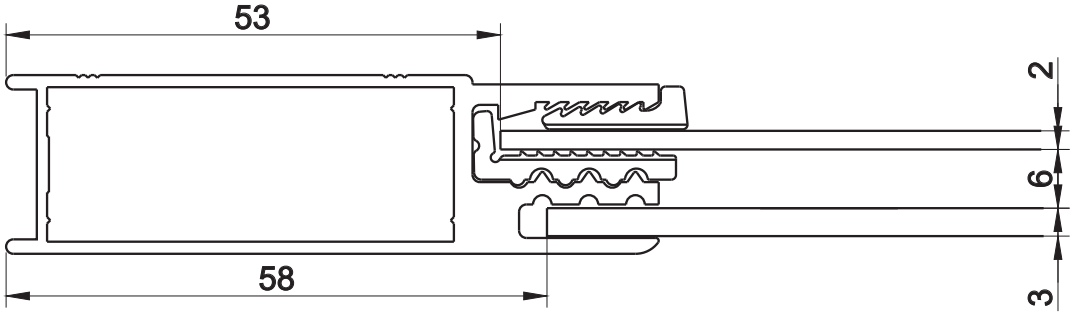


Step 3



Centrally locate spacer(s) between the two mesh panels to keep them from contacting each other in wind event and operation.

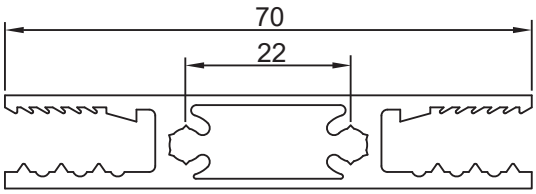
Final Dimensions



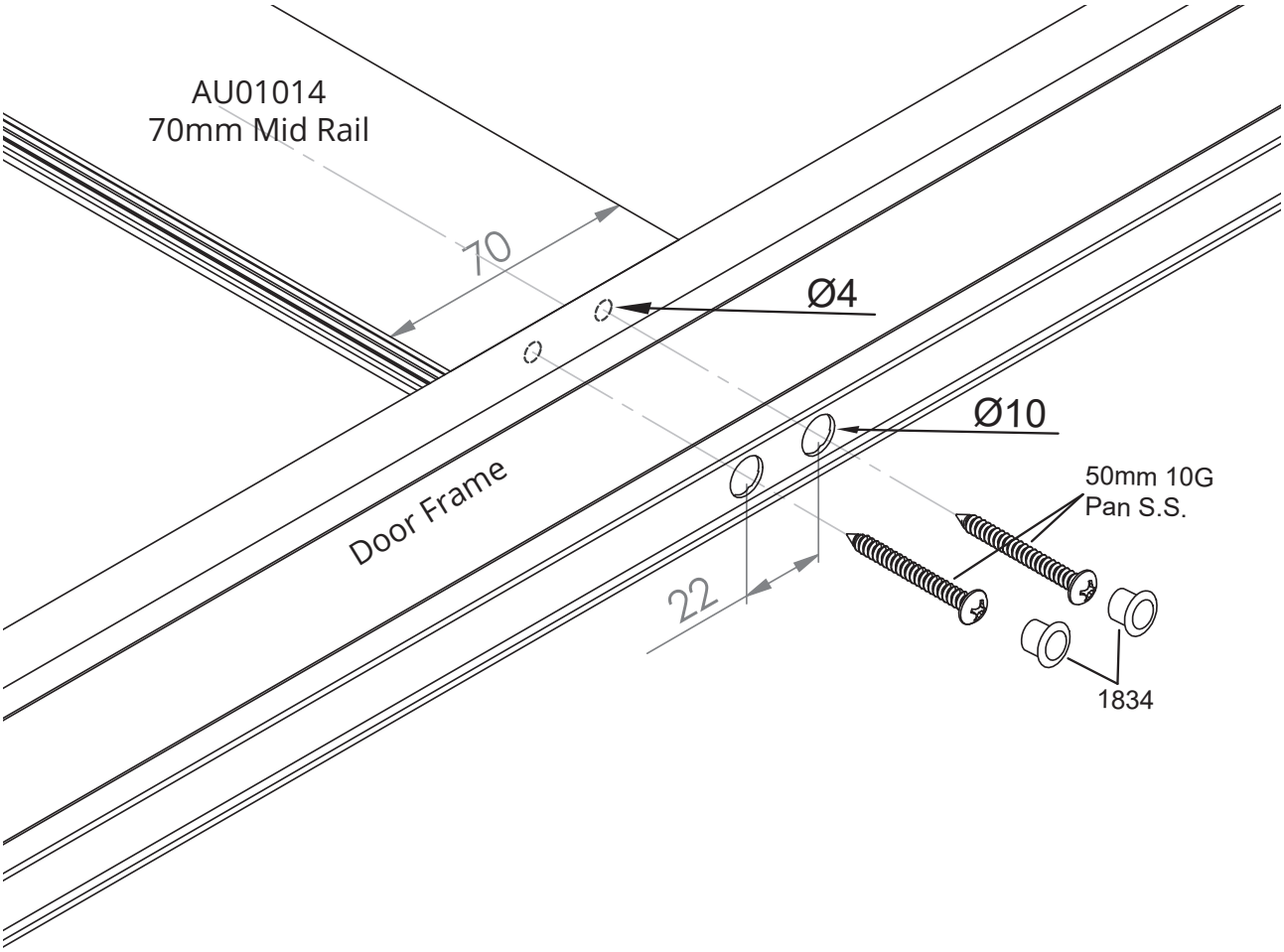
70mm Midrail AU01014

2522
70mm Screenguard
Midrail Drill Jig

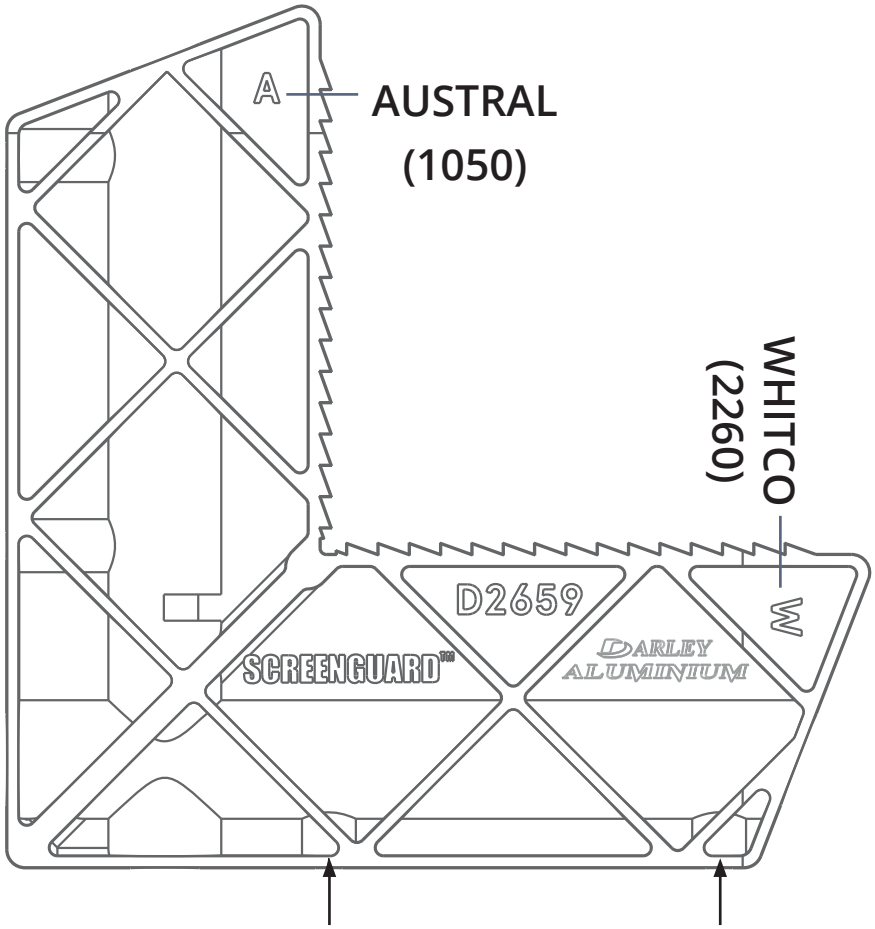
1834
10mm PVC Cover



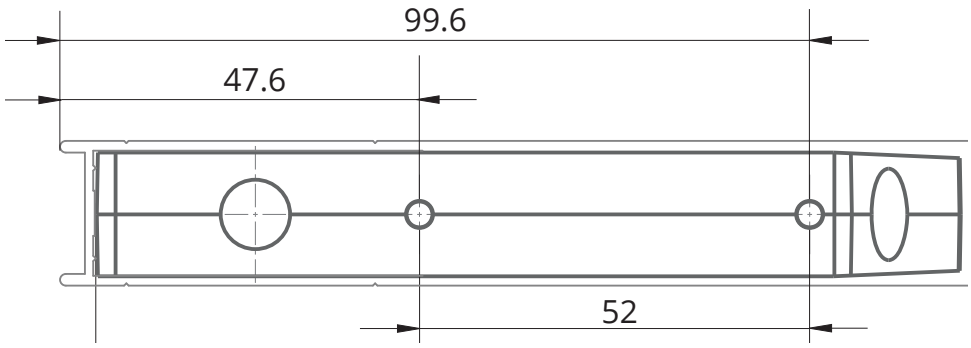
AU01014
70mm Mid Rail



2659-D Corner Stake Details

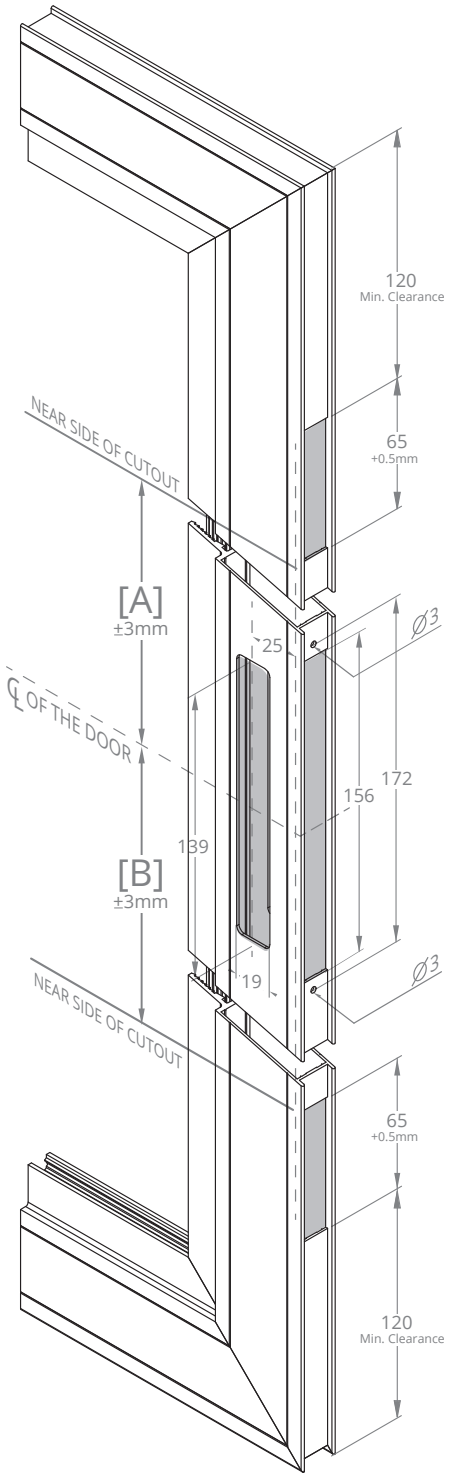


8G or 10G Steel Fixings 1/2 Inch - finish dependant on site location
*When utilising a flush bolt on a double door configuration:
Max 7mm Screw length to prevent interference.



Austral Elegance (2156) / Austral Forge (4300)

3PT Lock Installation Instruction Video

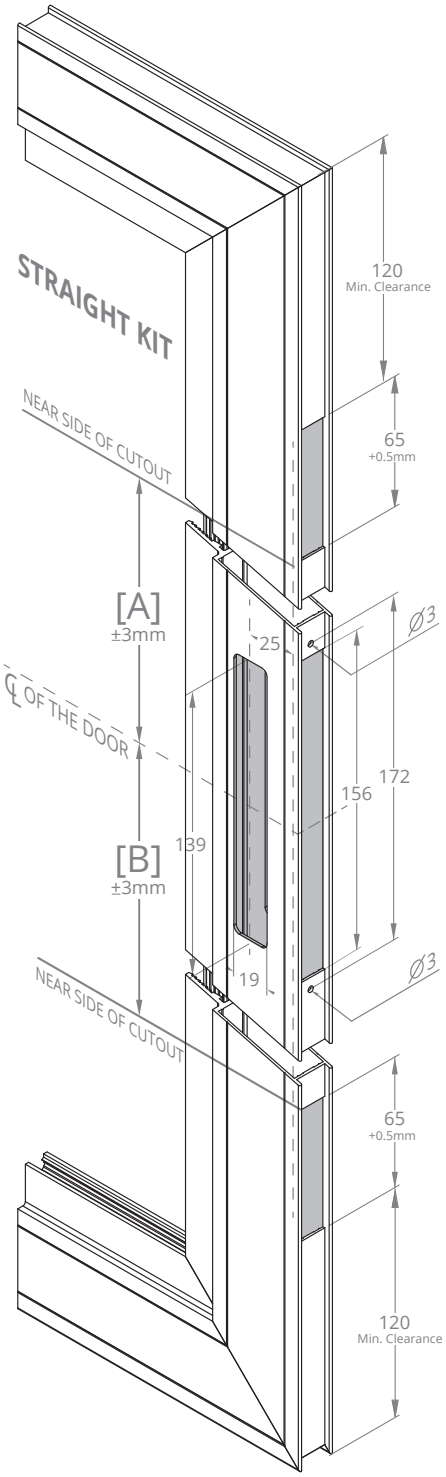


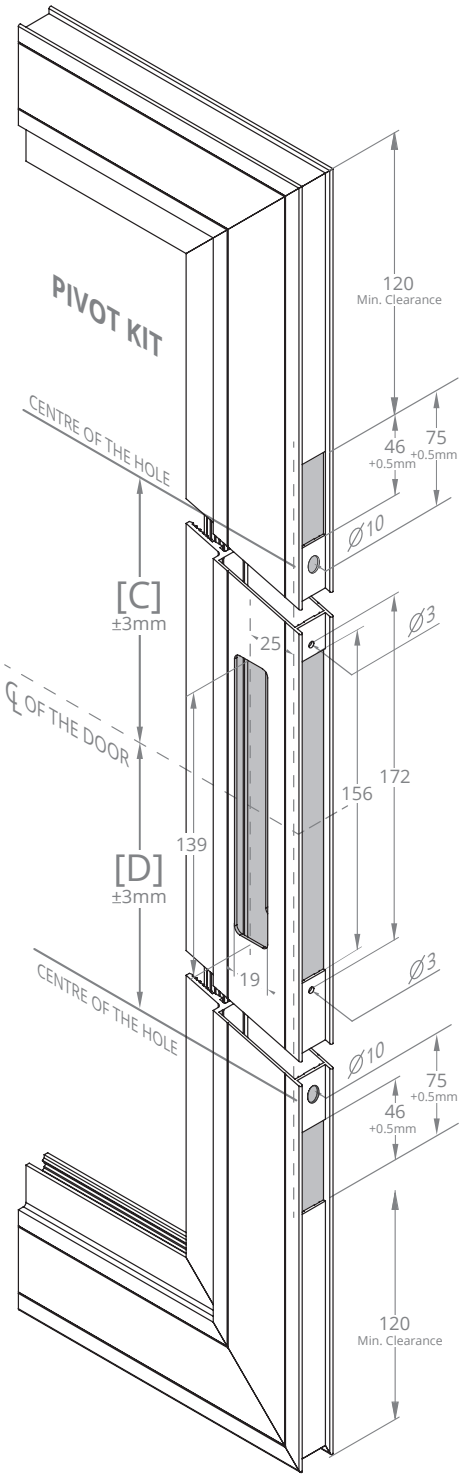
Austral Lock®

HARDWARE	CODE	[A]	[B]
HIGH KIT	2156-3CH	826mm	682mm
LOW PIVOT KIT	2156-3CL	682mm	826mm
ADJUSTABLE ROD	2157-3ADJ	110mm-980mm (ONE SIDE)	

Fabrication

Austral Ultimate (2131) / Austral Forge (4100)

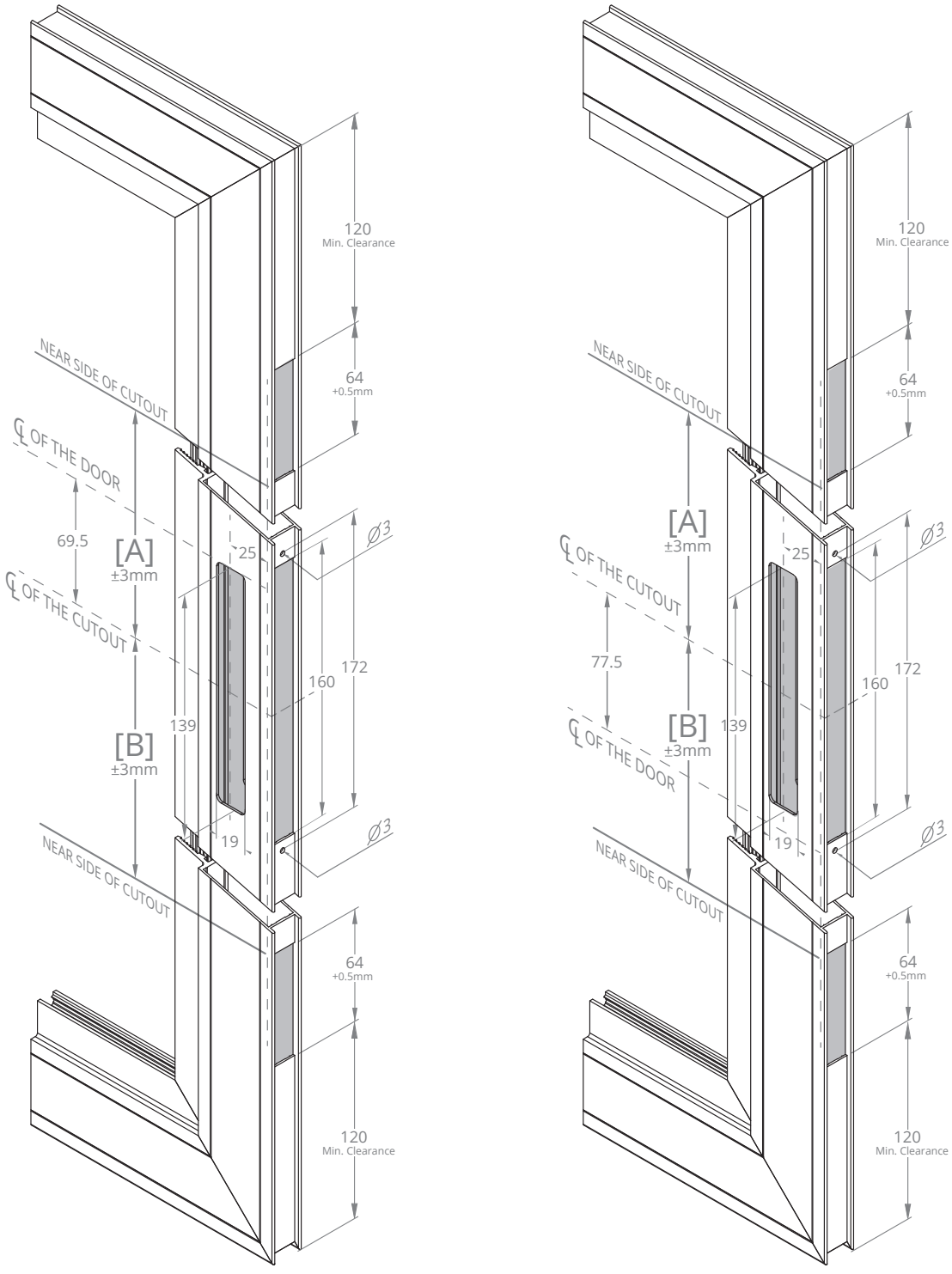




Austral Lock®

HARDWARE	CODE	[A]	[B]	[C]	[D]T
HIGH PIVOT KIT	2131-3CH	-	-	610mm	790mm
HIGH STRAIGHT KIT	2131-CH/S	682mm	826mm	-	-
LOW PIVOT KIT	2131-3CL	-	-	766mm	634mm
LOW STRAIGHT KIT	2131-CL/S	682mm	826mm	-	-

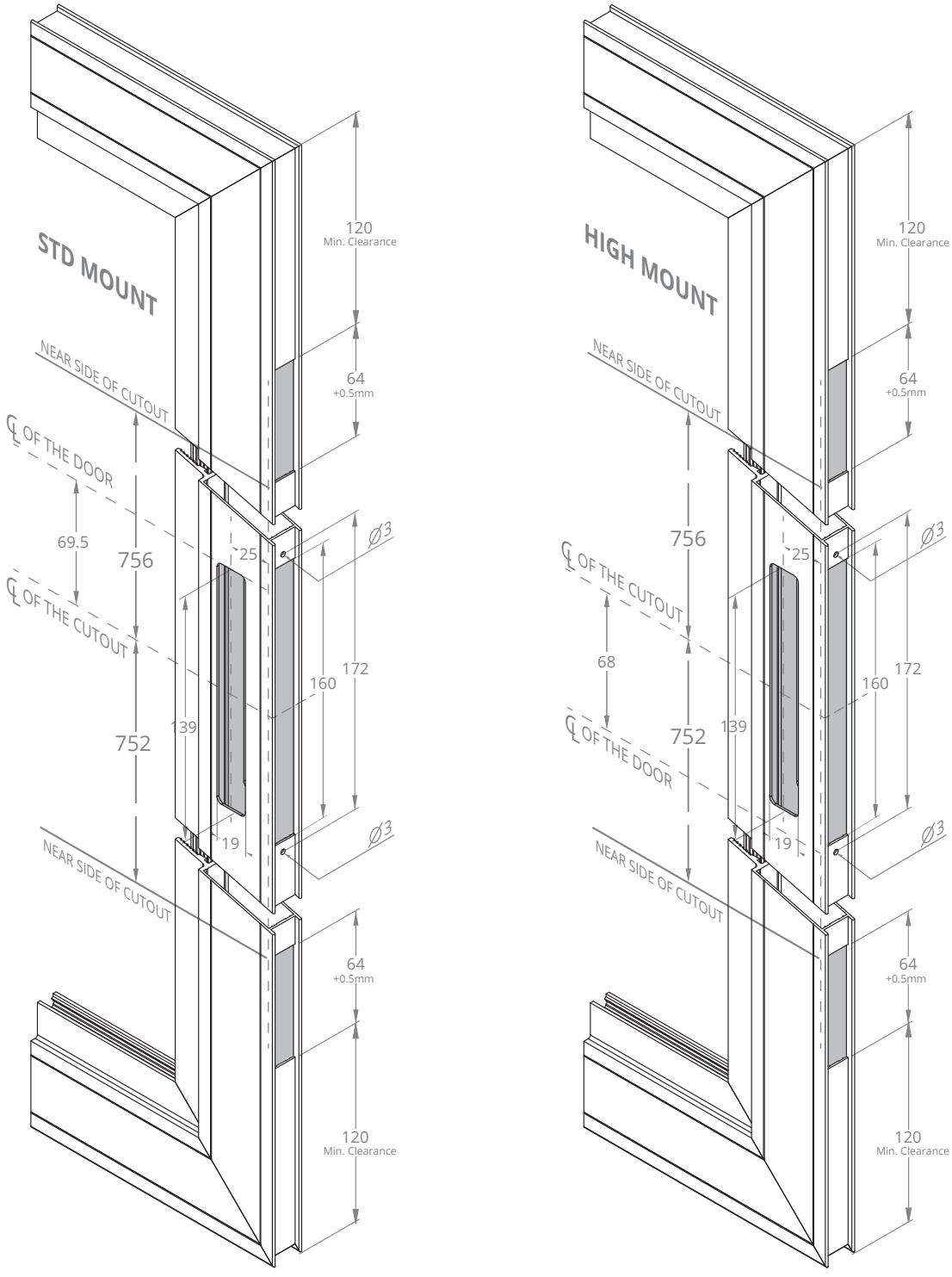
Lockwood 8654 Hinged Door Lock (2105)



HARDWARE	CODE	[A]	[B]
HIGH KIT	2105-3HS	825mm	682mm
STANDARD KIT	2105-3ST	682mm	829mm
PROJECTION BOLT	2105-3PK/PBT		

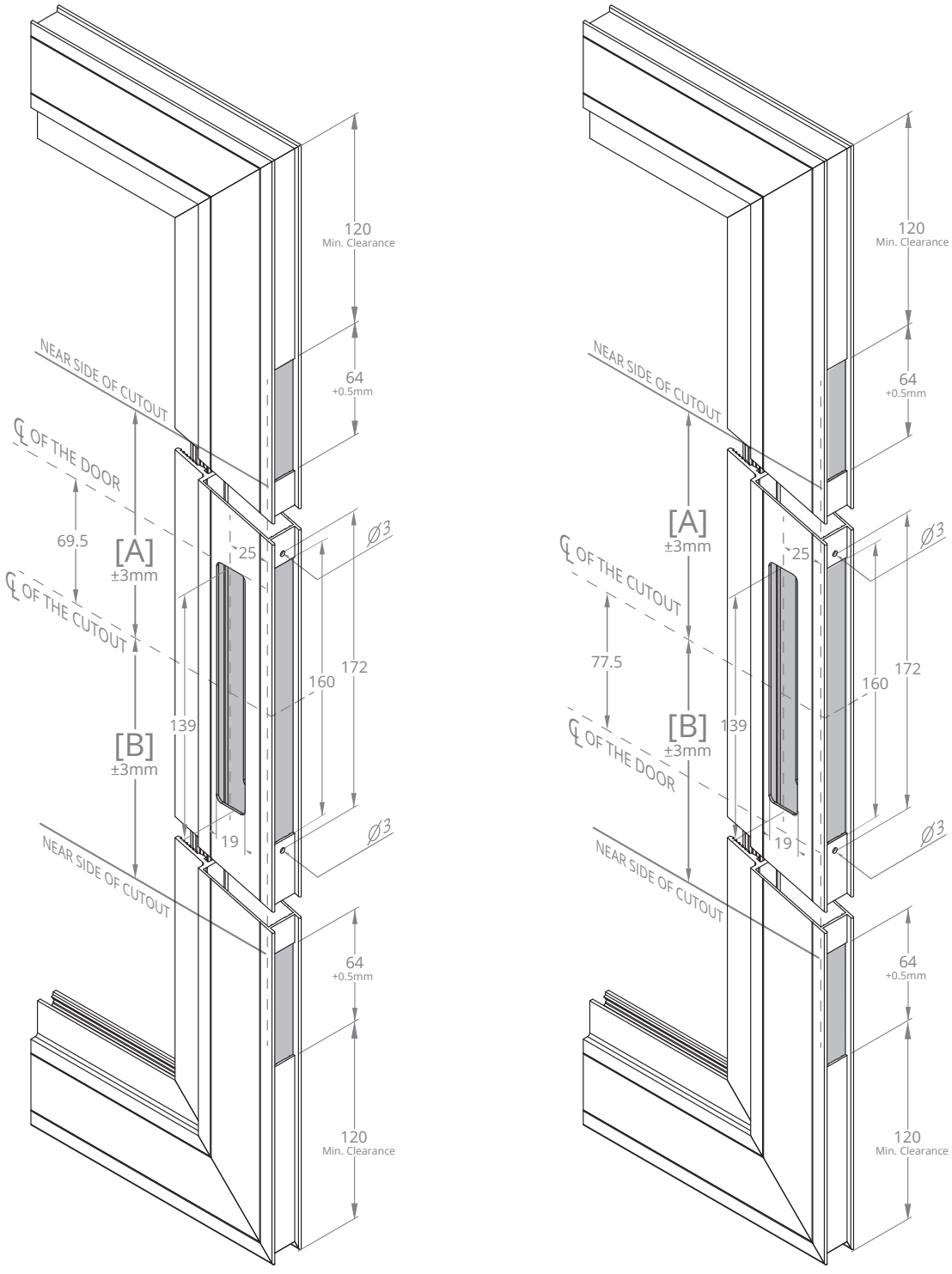
Fabrication

Yale Quattro Hinged/Sliding Door Lock (2103 / 2154)



HARDWARE	CODE	[A]	[B]
HINGED DOOR	2103-3ST	756mm	752mm
SLIDING DOOR	2156-3ST	756mm	752mm

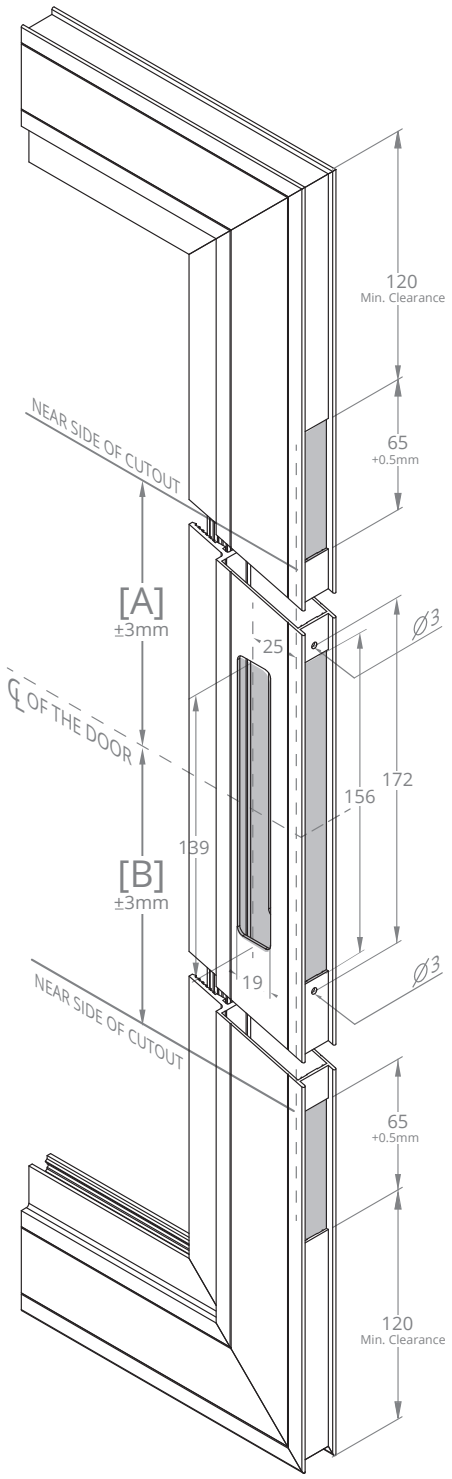
Lockwod 8653 Sliding Door Lock (2155)



HARDWARE	CODE	[A]	[B]
STANDARD KIT	2155-3ST	756mm	752mm
SNIB ONLY	2155-SO	756mm	752mm

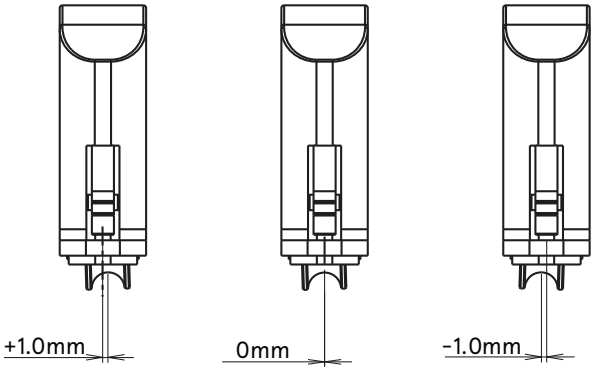
Austral SD7 Sliding Door Lock (2151)

3PT Lock Installation Instruction Video

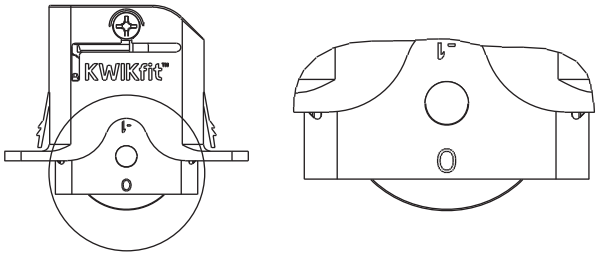


HARDWARE	CODE	[A]	[B]
HIGH CABLE KIT	2151-3CH	546mm	961mm
ADJUSTABLE ROD KIT	2151-3ADJ	ANY	
SD9 LOCK	2153		

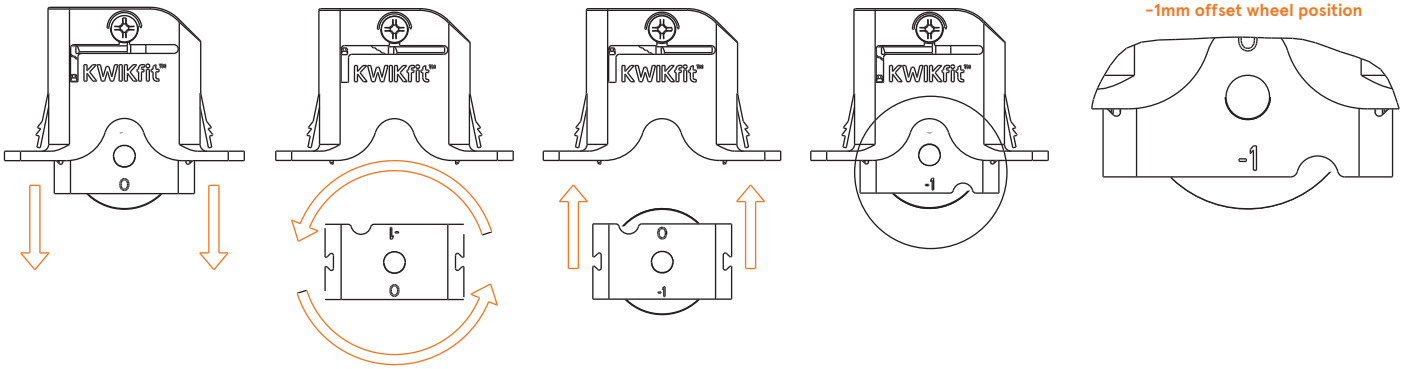
KWIKfit Switch Offset Roller (2451)



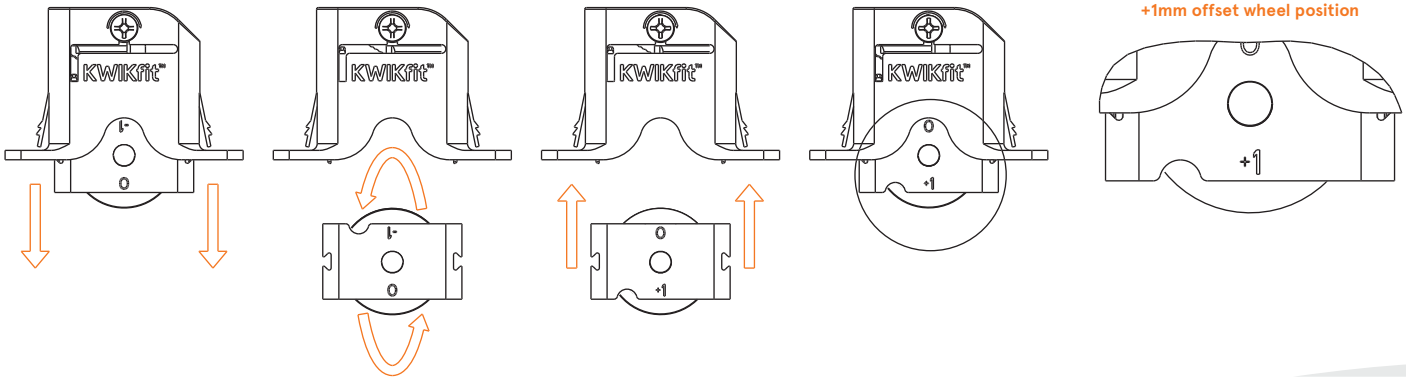
Supplied in zero offset wheel position



To achieve a -1mm offset follow below:



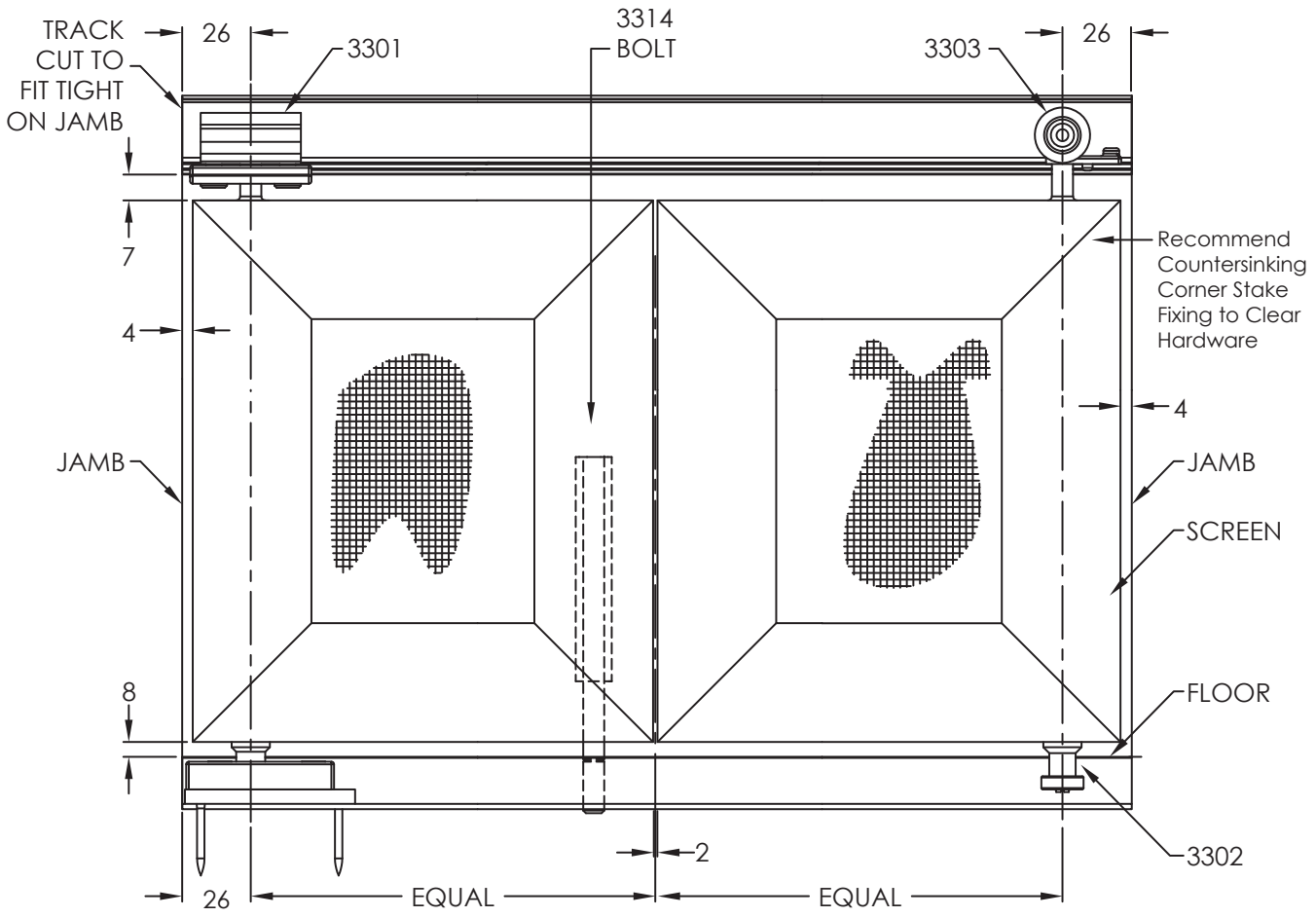
To achieve a +1mm offset follow below:



Barrier Multifolding Doors

General Configuration

2 OR 2+2 PANEL



Size Deductions

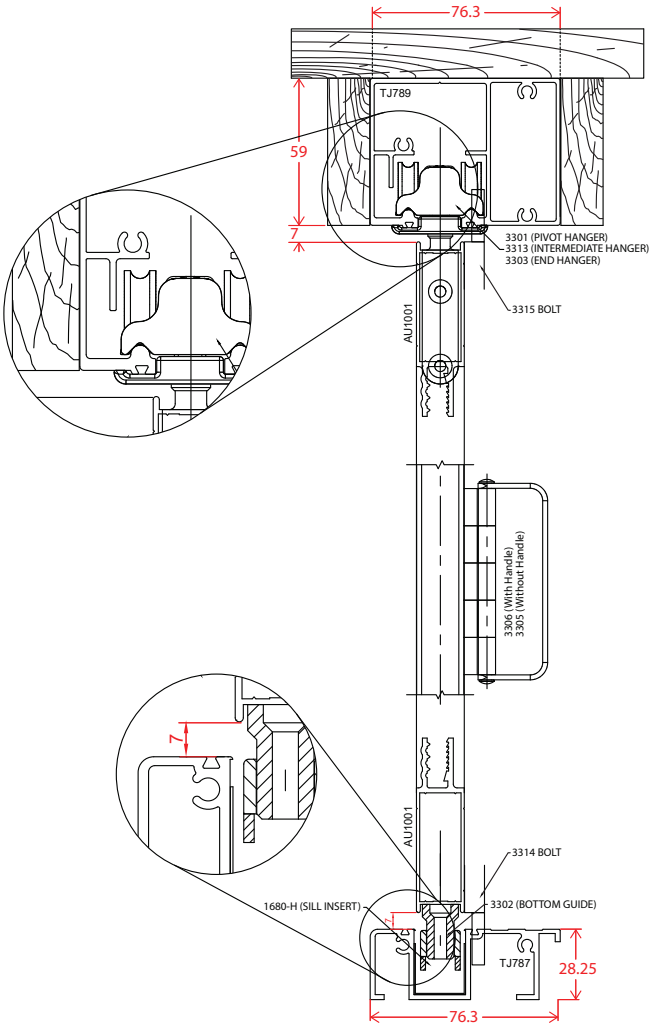
Recommended maximum panel weight: 25kg

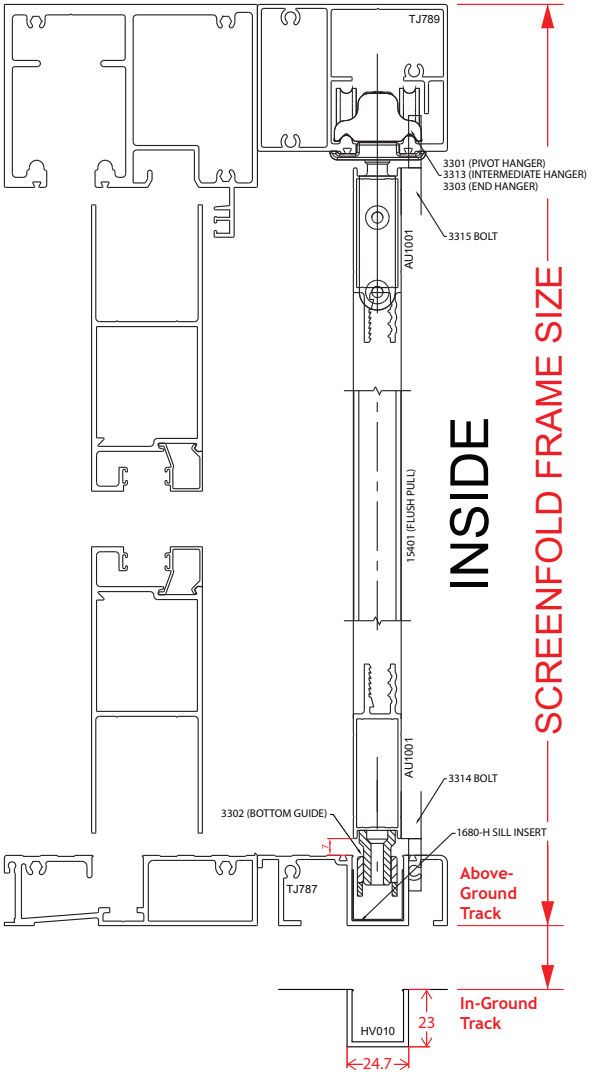
Recommended maximum panel width: 900mm

Height Deduction	
Above Ground Track	Screenfold Frame Size - 101 = Panel Size
In Ground Track	Screenfold Frame Size - 73 = Panel Size

Width Deduction	
2 Panel	(Screenfold Frame Size - 80)/2 mm
3 Panel	(Screenfold Frame Size - 82)/3 mm
4 Panel	(Screenfold Frame Size - 84)/4 mm
5 Panel	(Screenfold Frame Size - 86)/5 mm
6 Panel	(Screenfold Frame Size - 88)/6 mm

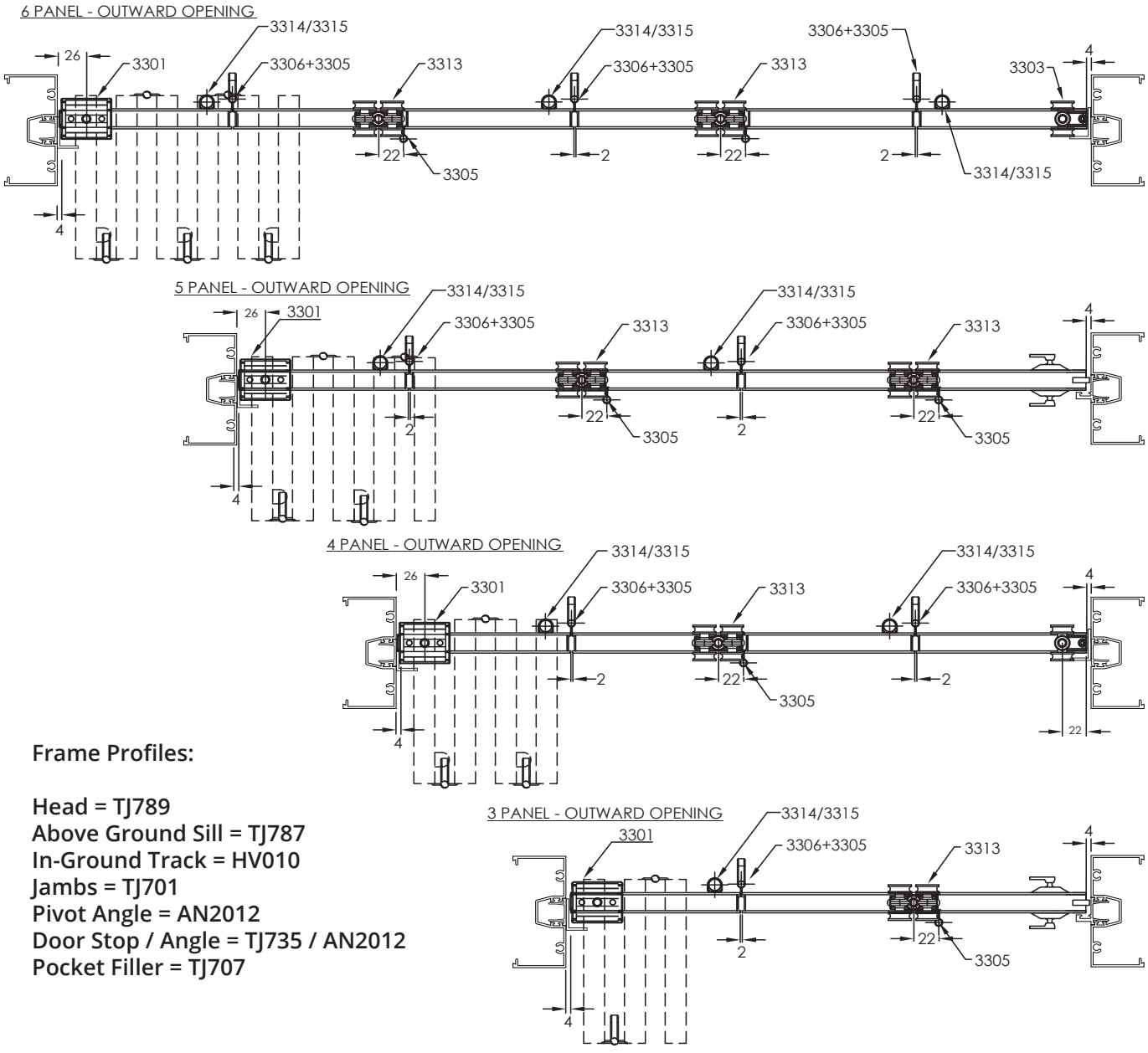
Head & Sill Diagrams





Can be flush with ground using HV010.
Back lip of TJ787 can wrap over subsill front leg.

Outward Screening Hardware

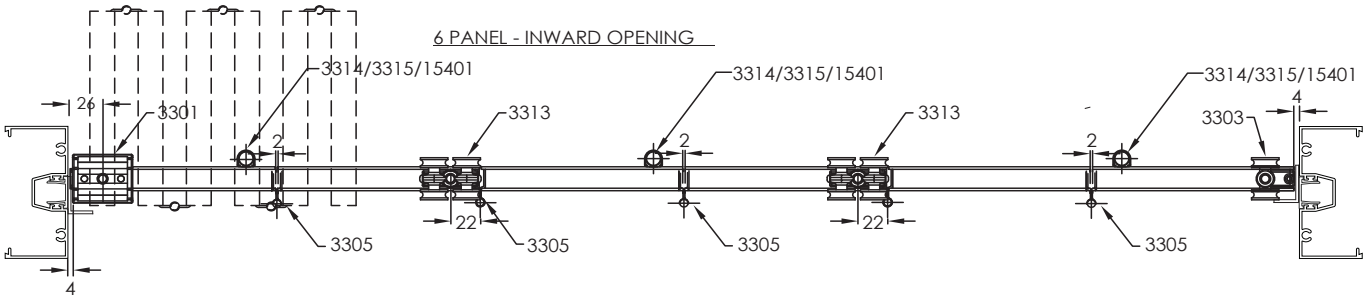


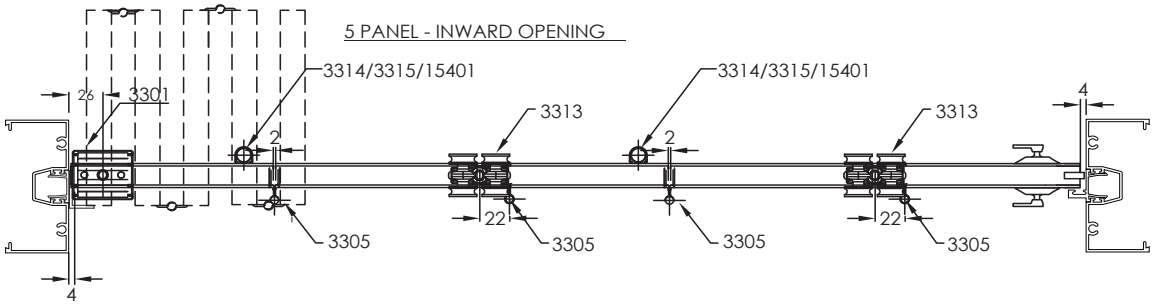
Frame Profiles:

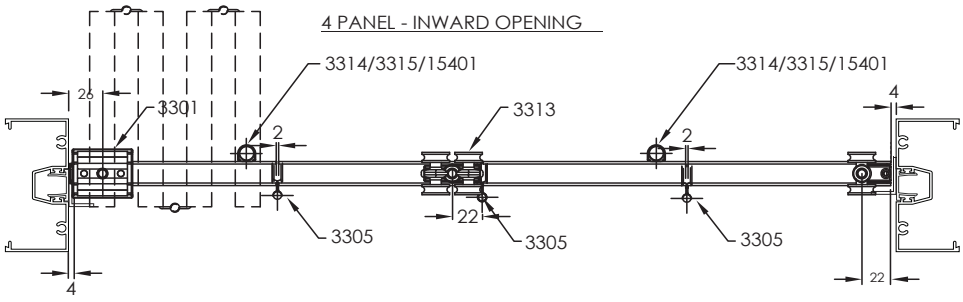
Head = TJ789
Above Ground Sill = TJ787
In-Ground Track = HV010
Jambs = TJ701
Pivot Angle = AN2012
Door Stop / Angle = TJ735 / AN2012
Pocket Filler = TJ707

Outward Screening Hardware													
Hardware Item	2 Panel Pivot	2+1 Panel Pivot	3 Panel Pivot	3+1 Panel Pivot	2+2 Panel	4 Panel Pivot	4+1 Panel Pivot	3+2 Panel Pivot	5 Panel Pivot	5+1 Panel Pivot	4+2 Panel Pivot	3+3 Panel Pivot	6 Panel Pivot
3301 Pivot Set	1	2	1	2	2	1	2	2	1	2	2	2	1
3305 Hinge	2	2	5	5	4	7	7	7	10	10	9	10	12
3306 Hinge (Handle)	1	1	1	1	2	2	2	2	2	2	3	2	3
3302 Bottom Guide	1	1	1	1	2	2	2	2	2	2	3	2	3
3303 End Hanger	1	1	-	-	2	1	1	1	-	-	2	-	1
3313 Intermediate Roller	-	-	1	1	-	1	1	1	2	2	1	2	2
3314 Latch (Bottom)	1	1	1	2	2	2	2	2	2	2	3	3	3
3315 Latch (Top)	1	1	1	2	2	2	2	2	2	2	3	3	3
1680-H PVC Channel	1	1	1	1	1	1	1	1	1	1	1	1	1
For Larger Configurations, Contact Darley For A Customised QTY.													

Inward Screening Hardware

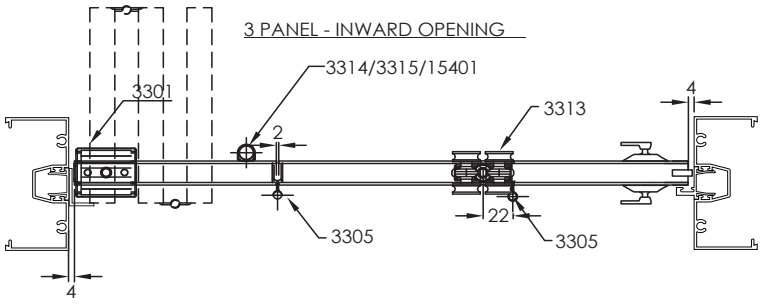






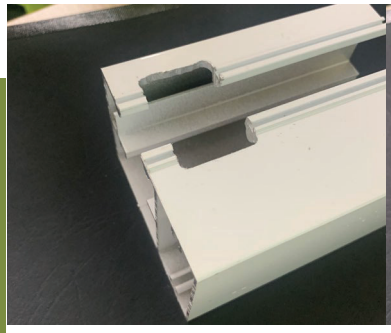
Frame Profiles:

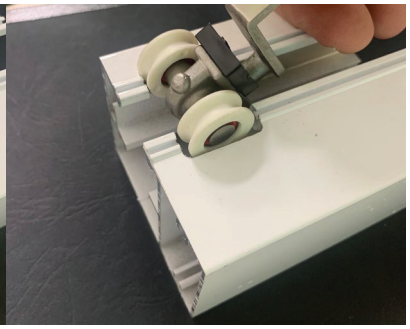
Head = TJ789
Above Ground Sill = TJ787
In-Ground Track = HV010
Jambs = TJ701
Pivot Angle = AN2012
Door Stop / Angle = TJ735 / AN2012
Pocket Filler = TJ707

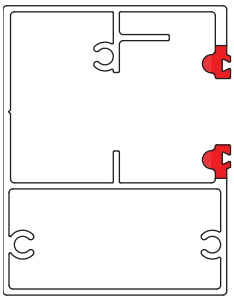


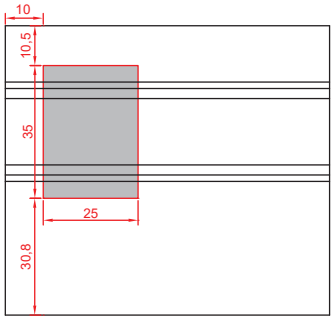
Inward Screening Hardware													
Hardware Item	2 Panel Pivot	2+1 Panel Pivot	3 Panel Pivot	3+1 Panel Pivot	2+2 Panel	4 Panel Pivot	4+1 Panel Pivot	3+2 Panel Pivot	5 Panel Pivot	5+1 Panel Pivot	4+2 Panel Pivot	3+3 Panel Pivot	6 Panel Pivot
3301 Pivot Set	1	2	1	2	2	1	2	2	1	2	2	2	1
3305 Hinge	3	3	6	6	6	9	9	9	12	12	12	12	15
15401 Flush Pull	1	1	1	1	2	2	2	2	2	2	3	2	3
3302 Bottom Guide	1	1	1	1	2	2	2	2	2	2	3	2	3
3303 End Hanger	1	1	-	-	2	1	1	1	-	-	2	-	1
3313 Intermediate Roller	-	-	1	1	-	1	1	1	2	2	1	2	2
3314 Latch (Bottom)	1	1	1	2	2	2	2	2	2	2	3	3	3
3315 Latch (Top)	1	1	1	2	2	2	2	2	2	2	3	3	3
1680-H PVC Channel	1	1	1	1	1	1	1	1	1	1	1	1	1
For Larger Configurations, Contact Darley For A Customised QTY.													

Roller Access Machining Details

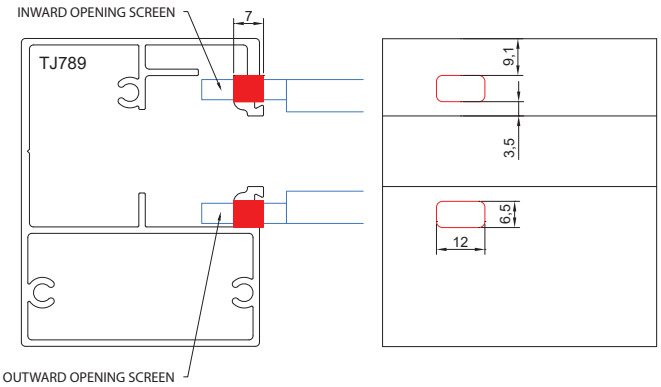


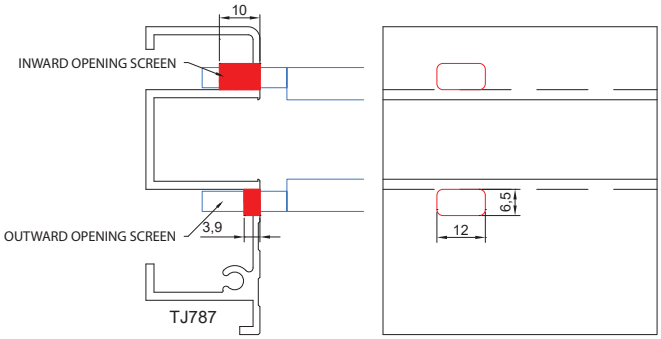




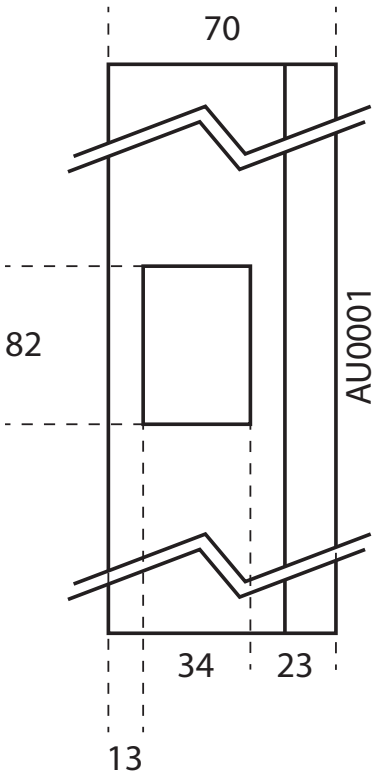


3314/3315 Bolt Machining Details

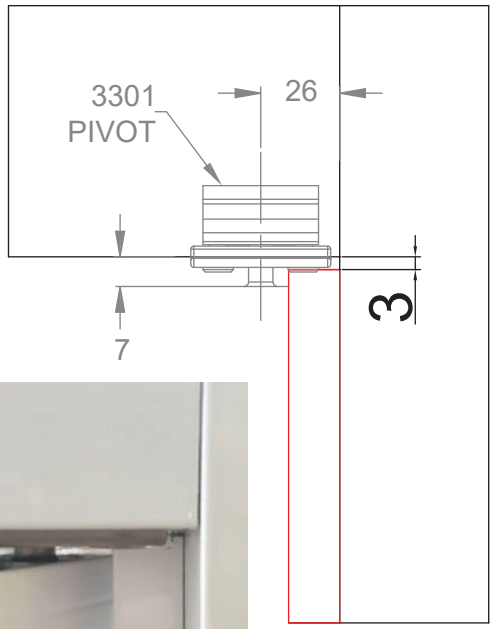




Flush Pull (15401) Machining Details

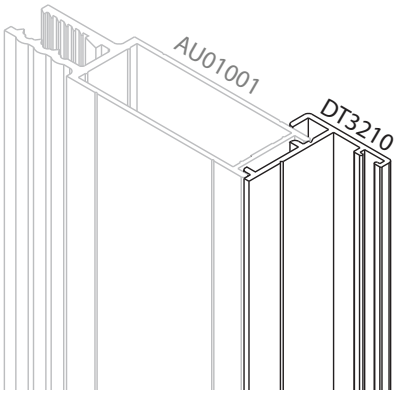


20x12 Angle (AN2012) Machining Details

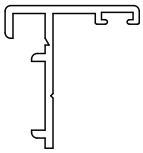


Pivot side angle AN2012 must stop 3mm short from head to clear pivot.

Frame Gap Concealer



DT3210 - Optional profile used to hide gaps between bifold panels



Installed on panel stiles. Installation must alternate between inside and outside the door every panel to prevent fouling when operating the door and to ensure consistent appearance.

Additional Tips

1. If using reinforced nylon stakes, the bottom hole can double up as a fixing for both the roller brackets and the corner stake, helping to pull in the mitre joint.

2. To adjust panel tilt and alignment, unscrew top and bottom bracket which will allow access to wind up or down.

3. The black section of the roller should always face pivot side (acts as a stopper rather than damaging the wheel).

4. Preadjust the pivot appoximately ~5mm prior to attaching.

5. Bottom pivot should be mounted with the “open” side towards jamb.

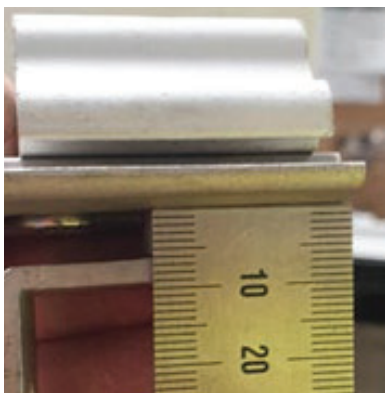
6. AN2012 always used as pivot stop. TJ735 used on other jamb if last panel is hinged, otherwise use AN2012.

7. Consider your fixings - TJ705 frame flat filler is available to clip into jambs if necessary.

1

3

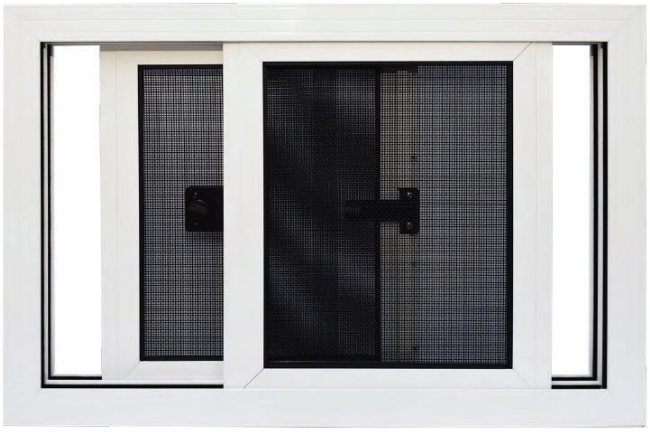
4



5

Servery Window

General Configuration



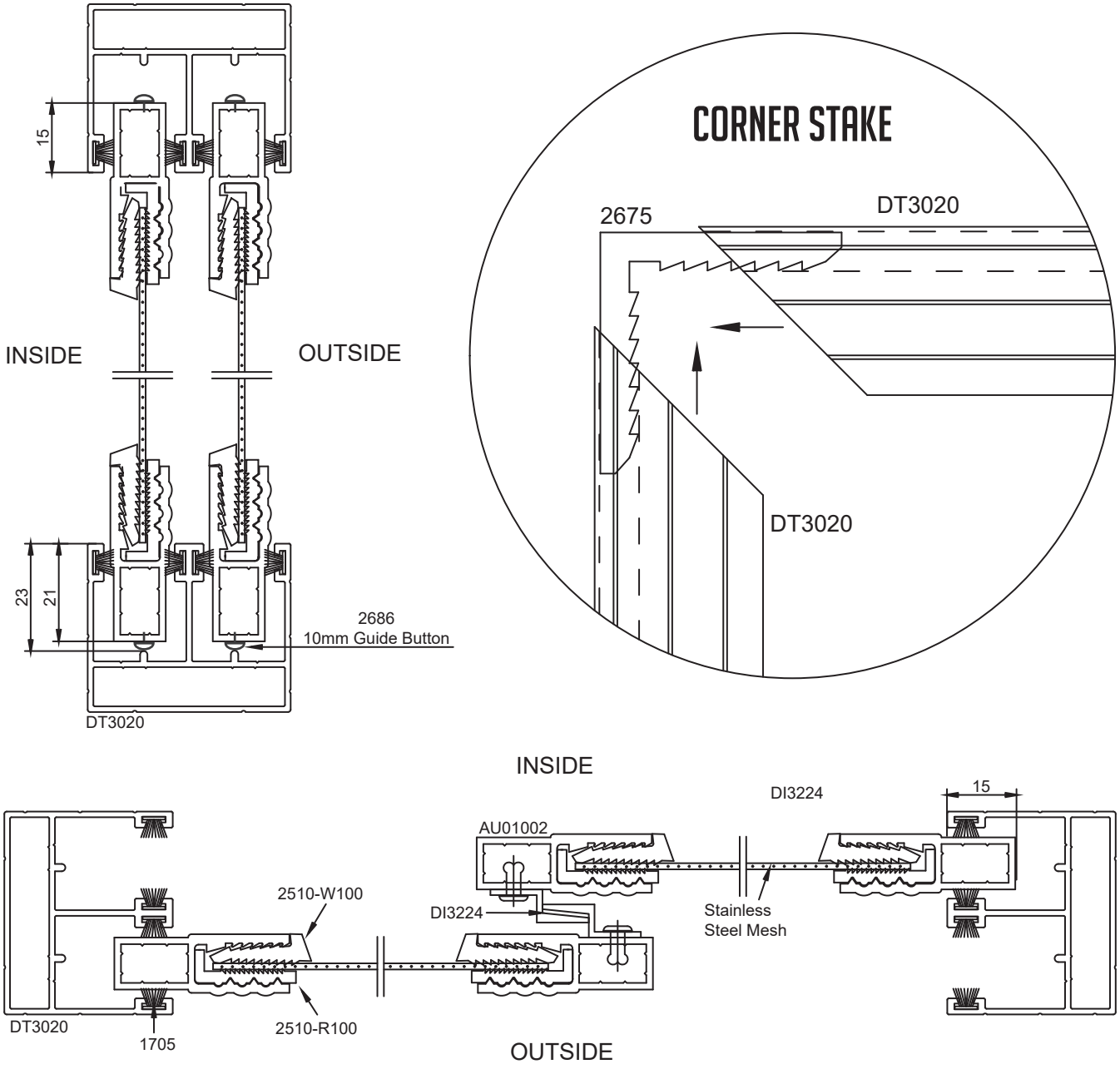
Size Deductions

Quantity	FS Configuration Deduction	
2	Jamb (DT3020)	Frame Height
2	Head/Sill (DT3020)	Frame Width
2	Panel Stile (AU01002)	Frame Height - 36mm
2	Panel Rail (AU01002)	(Width - 4)/2
4	Interlock (DI3224)	(Panel Height - 98)/2

Interlock And Lock Details

The size deduction for DI3224 interlock assumes central lock positioning. Each of the four interlock pieces create the two interlocks, stopping and starting at the 2667 lock.

Assembly Diagrams



NOTE: This servery window system has not been tested or certified to AS5039 and should not be specified or used where a security-rated product is required.

2914 Tool Setup Details

What you get:

Each kit contains the Corner Press, Multi Thickness Packers, Support Brackets and screws to complete the installation.
The unit is designed to be installed into the corner of your assembly bench.

Specifications:

The machine is designed to crimp the corners of Security Window Frames to the Aluminium Corner Stakes.

Frame Thickness Range: 8 - 11 mm.

Important - The corner stake thickness should be a tight fit
- maximum 1mm clearance.

The operating pressure is a minimum of 7 bar.

Operating Instructions:

Attach thickness spacers under the anvil as needed:
- 11 mm frame: No spacers.
- 9 mm frame: Use 2 mm spacers.
- 8 mm frame: Use 3 mm spacers.

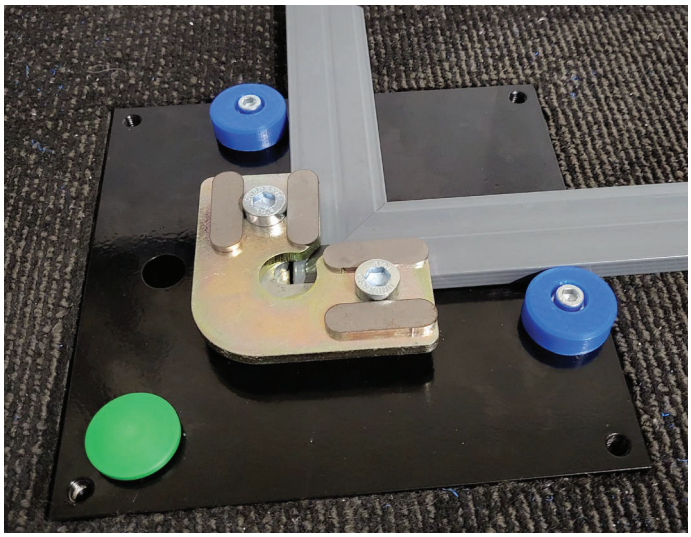
Insert the window frame corner with fitted corner stakes into the press.

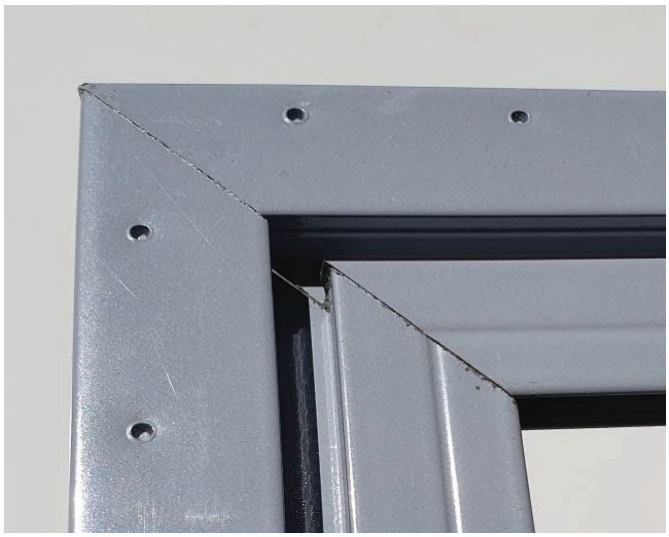
Verify proper alignment of all parts.

Press the green button to activate the press.

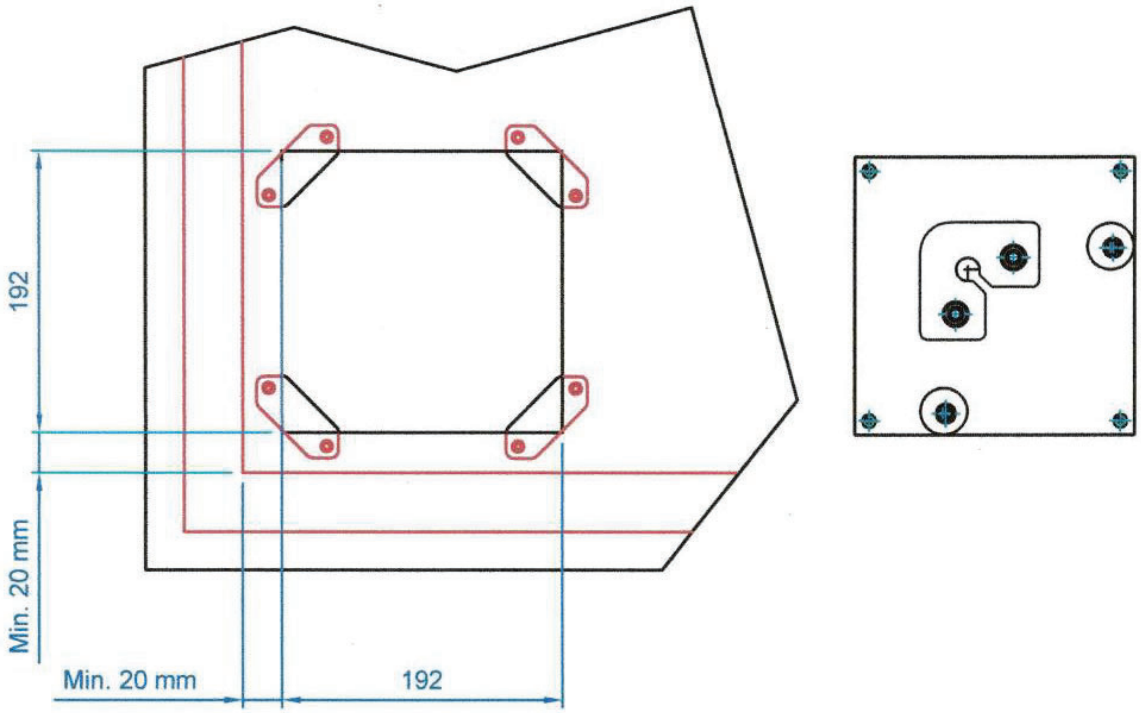
Release the button and remove the frame (gently tap if it sticks).

Repeat for each corner

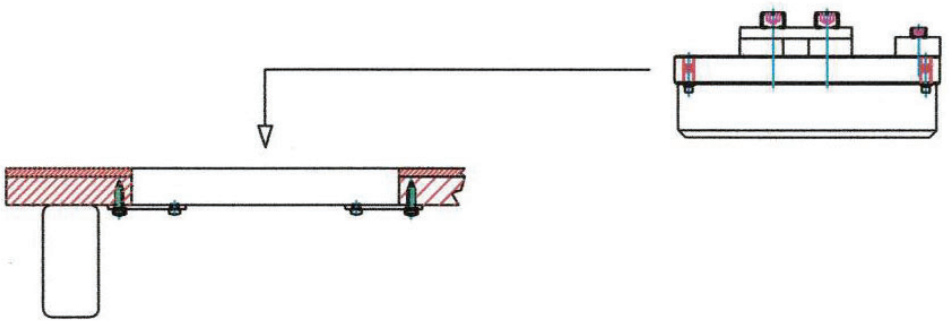




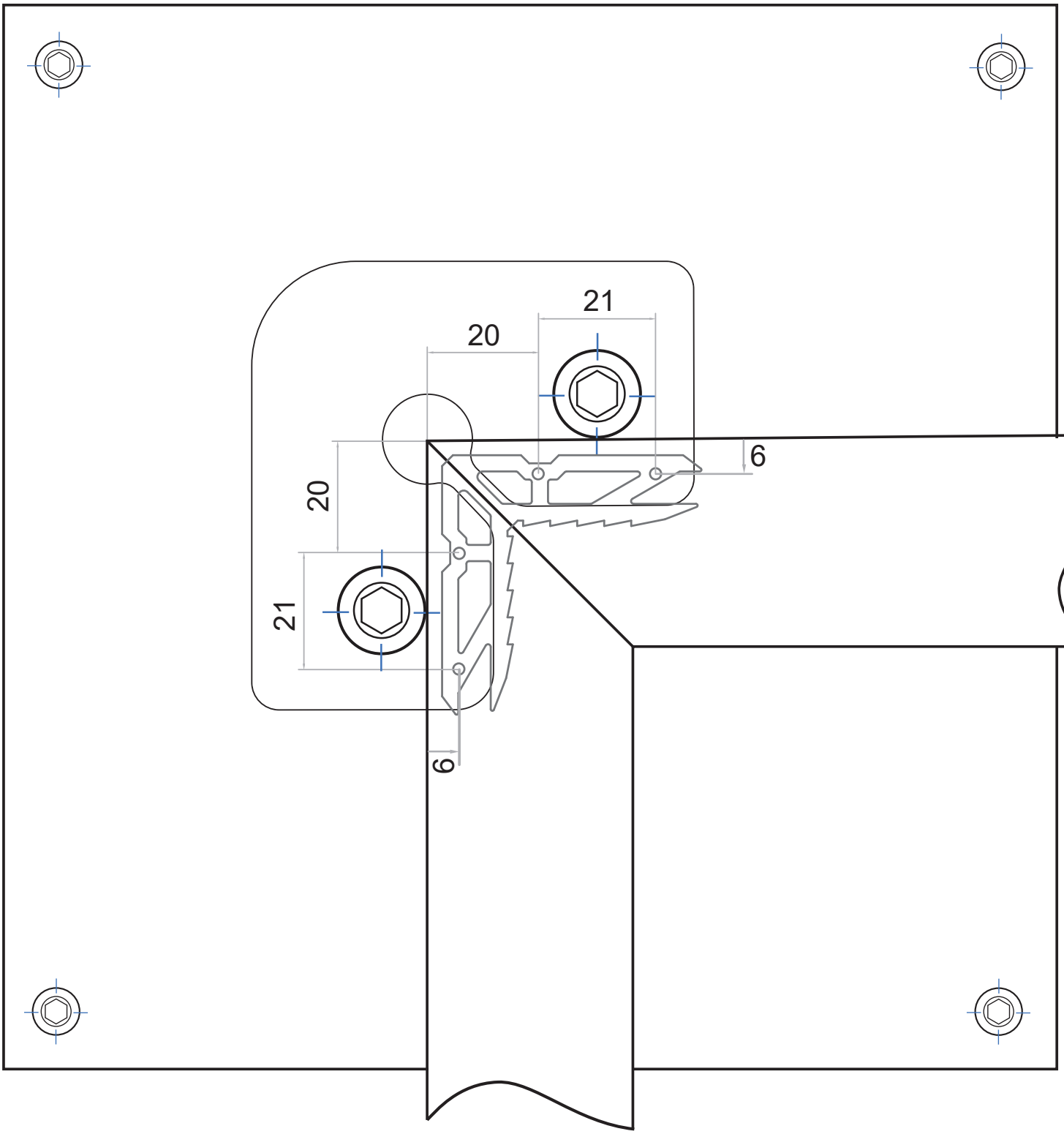
1. Hole preparation
Mark out a 192 x 192mm ssquare on the left hand front corner.
Cut the hole through the bench top and carpet top.
Fit the support plates under the corners of the hole using the screw supplied.



1. Assembly of the Corner Press
Place the press into the prepared hole.
Adjust the jacking screws to level the press with the bench surface.



2914 Window Corner Crimper Details



2916 Corner Stake Punch

What You Get:

Each kit contains the portable Hole Punch, Foot Valve and the neccessary tube and fittings.

The operating pressure is a minimum of 7 bar.

Installation Instructions

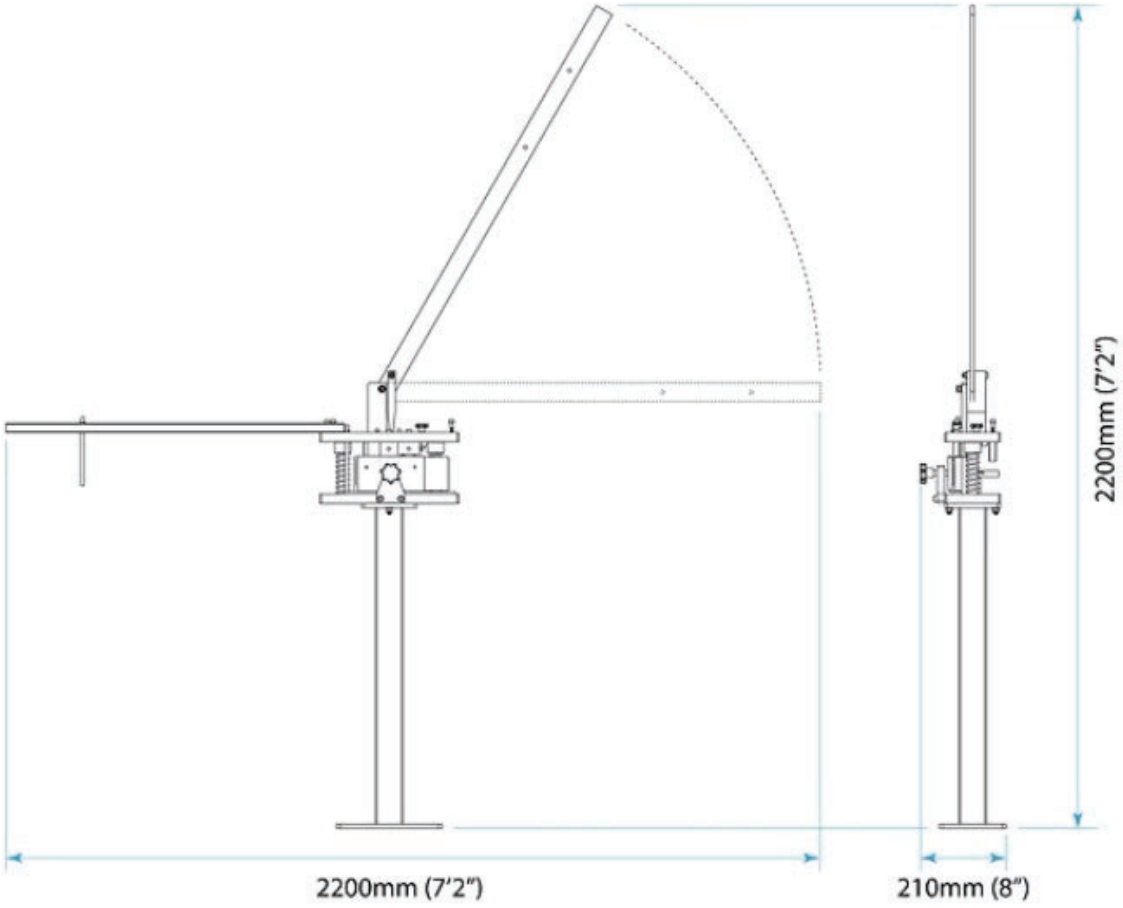
1. Place the corner press onto the bench or wall location.
2. Connect the tubing between the press and the foot valve.
3. Connect the air supply to the foot valve.

Operating Instructions:

1. Slide the mitred end of the door section into the press - fully in against the stop.
2. Press the foot pedal to crimp the corner.
3. Release the foot pedal and remove the frame.

Follow the above procedure for each frame end

2910 Security Door Lock and Wheel Punch



PRODUCT SPECIFICATIONS

Operating Length: 2200mm*

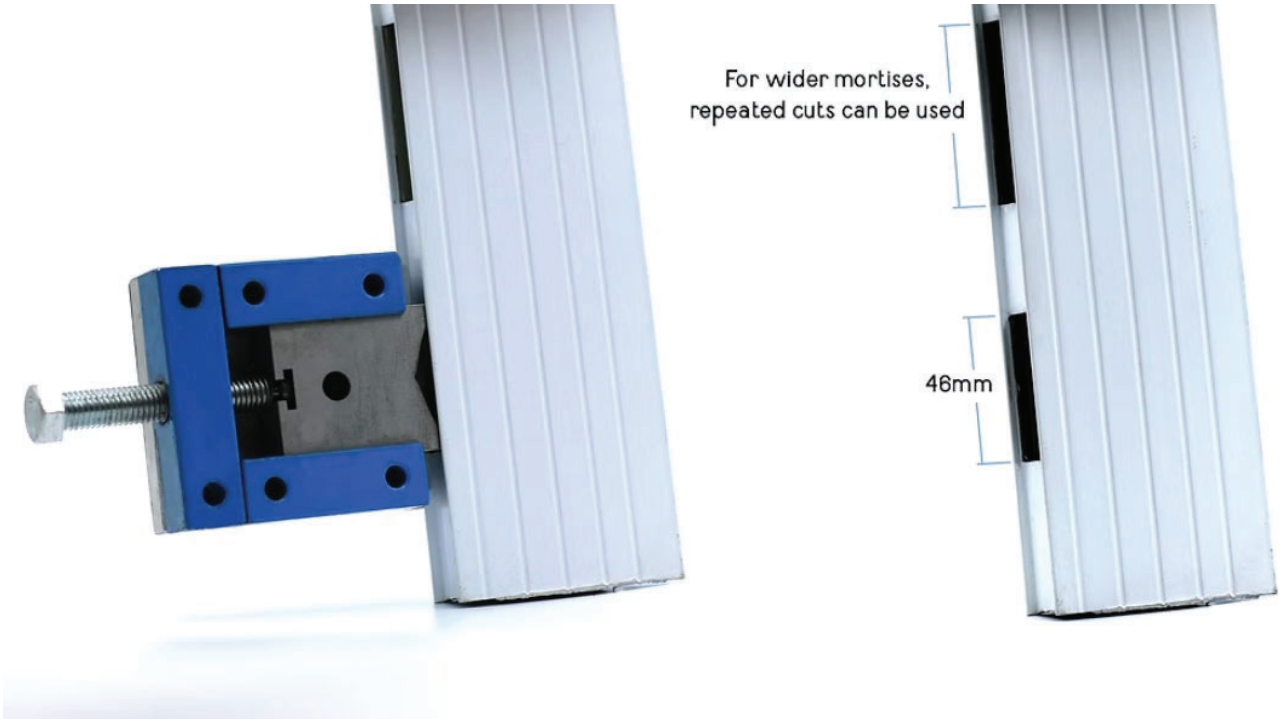
Operating Width: 210mm

Operating Height: 2200mm

Weight: 50kg

This system installs security door locks into aluminium door frames. It creates mortise channels for common lock sizes, with two punches: one for the lock body and one for the escutcheon plates. The outrigger allows channels for three-point locks, and it can also make 46 mm cut-outs for sliding door roller wheels.

2915 Security Door Lock Site Tool



PRODUCT SPECIFICATIONS

Length Fully Extended: 220mm

Length Fully Compressed: 170mm

Width: 80mm

Height: 34mm

Throat Capacity: 65mm

Stroke: 49mm

Weight: 1.25kg

The compact site tool allows installation of security door locks into existing door frames without the need to remove the door. The tool is mounted onto the door frame in the required position, and a 46mm sized mortise is created. Depending on the size of the door lock, the process is repeated along the slot until the desired size is achieved.

The hardened A2 steel punch is driven by an 18mm hex bolt, can be applied via an impact wrench or any standard spanner.

2910-AO Door Lock and Wheel Punch

The 2910 - AO Series machines will punch holes in a wide variety of Security Door Frames. This enables the fitting of Mortise Locks, Triple Locks and/or Roller Door Cartridges.

Complies with AS/NZS 4024.1: 2014

Punching force	3.7kN (1350 kg) @ 7 bar (100 psi)
Compatible with	Size range covered Standard extrusions 70 x 19 mm (Nominal) DF001, DF003, DF006, AU1001, (On request - up to 89 x 20 with conversion kit)
Material	Tool steel, hardened to Rc 60
Punch Details:	
Lower punch	46 x 15.5 mm - for Wheel insert, mortise lock hole and triple lock holes.
Upper punch	137 x 19 mm - for mortise lock face plate hole.
Rear punch	Ø 8 mm - for sliding door height adjustment screw hole.

2910-AO Operation Instructions

Setup Instructions

The machine is ready for use upon unpacking, requiring only airline connections:

1. Unpack and position the machine on a workbench.
2. Connect the Foot Valve to the Selector Valve with the provided tubing, ensuring a secure fit.
3. Attach the air supply - Min.8 bar (120 psi) to the Foot Pedal Valve inlet.

Operating Instructions

Mortise Lock Holes

- Set the Selector Valve to the front position.
- Mark the lock centerline on the extrusion using a whiteboard marker or pencil.

Edge Hole: 160 x 15.5 mm

1. Position the extrusion on the machine, aligning it with “Position 1” on the die plate.
2. Hold the extrusion flat with both hands, one on each side of the punch.
3. Press and release the foot pedal to punch the hole.
4. Repeat for Positions 2, 3, and 4, ensuring precise alignment for Positions 1 and 4.
5. Tilt the extrusion to allow the punch slugs to fall free.

Face Plate Holes (137 x 19 mm)

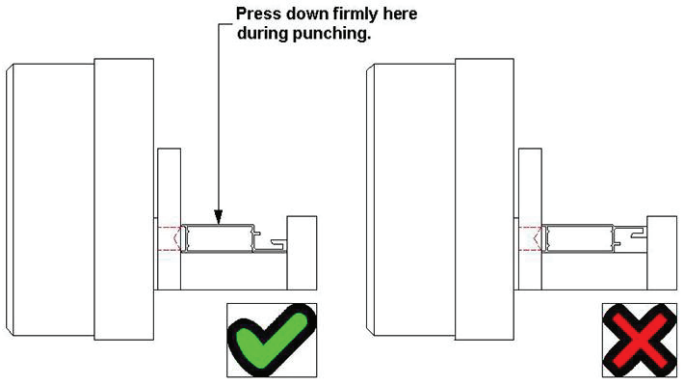
1. Align the 160 mm punched hole over the die plate.
2. Press and release the foot pedal to punch the hole.
3. Remove the extrusion and clear the slug.
4. Rotate the extrusion 180 degrees and repeat, pressing the slug inward with thumbs during removal.

Triple Lock Holes

1. Mark the centerline positions for the required holes on the extrusion.
2. Punch the first hole using the center arrow on the die plate as the reference.
3. Punch a second hole at Position 2 or 3.
4. Repeat at the opposite end.

Roller Cartridge Holes

1. Mark the hole centerline positions on the extrusion.
2. Set the Mode Selector Switch to the front position.
3. Punch the first hole using the center arrow as the reference.
4. Remove the extrusion and place the punched hole over the rear punch horn, ensuring the desired
5. punch side faces you.
6. Switch the selector to the rear, press and release the foot pedal.
7. Remove the extrusion.



CAUTION: Hold the extrusion firmly down during operation to avoid the risk of damage.

2910-AO Maintainence & Warranty

Maintenance

Follow these guidelines to ensure proper operation and prevent issues:

Air Pressure

Compressed air powers the punching process for door frames.
Maintain a minimum pressure of 7 bar (100 psi) at the machine for optimal performance.
Adjust pressure lower if using thinner extrusions, as needed.

Lubrication

Lubrication is essential when cutting, punching, or machining metal to reduce friction and assist the process. Aluminium is prone to galling, which can cause punches to stick or fail to retract if left uncorrected.
Lubricate the outer faces of the 46 mm punch on the 2910-AO and the 8 mm diameter punch for the Roller Hole Punch.
Use a suitable lubricant such as light grease, silicone spray, or docking saw blade lubricant.
Apply lubricant daily, adjusting frequency based on production volume.
For pneumatic valves, add 2 drops of Air Tool Lubricant to the Foot Valve input plug at the start of each shift to ensure smooth operation.

Product Warranty:

Universal Fluid Power Pty Ltd (the manufacturer) warrants the Lock Punch to be free from defects in materials and workmanship for a period of 12 months from the date of purchase. Under no circumstances should the machine be used for punching other than aluminium as this constitutes misuse and will void the warranty.

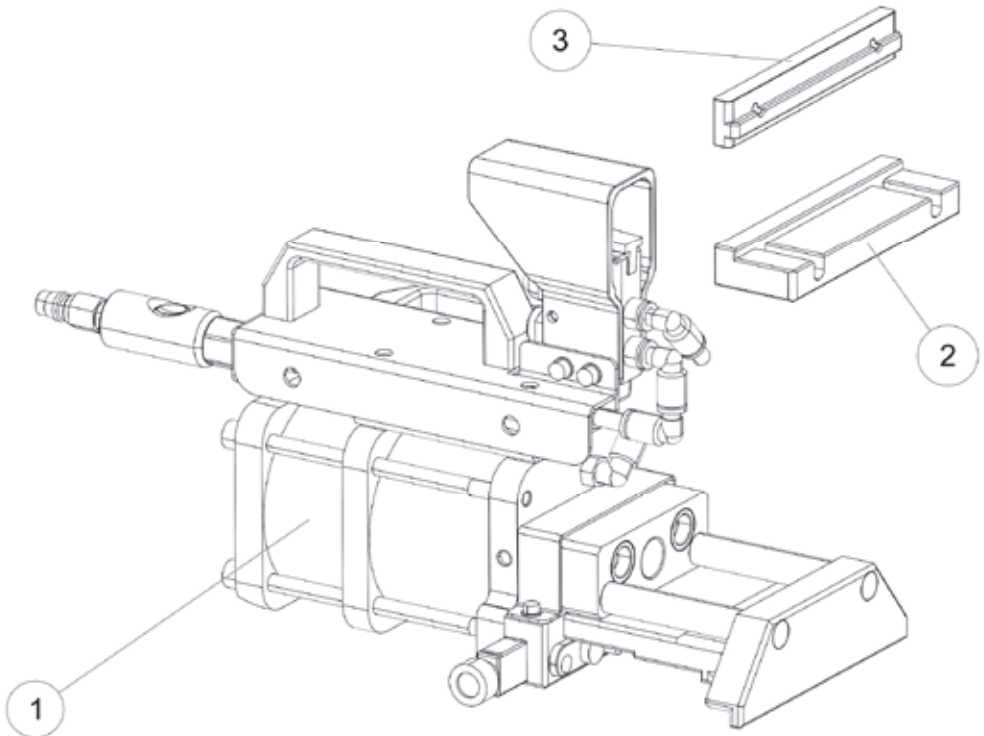
Screenguard Hand Air Tool - 2920

2.1 Technical characteristics

Description	Unit of measurement	Value
Cylinder	mm	Ø090
Number of chambers		2
Cylinder stroke	mm	9,5
Minimum working pressure	Bar	4
Punching force	Kg.	420
Air consumption	Nl per cycle	0,13
Dimensions	mm	409X173,5 H235
Weight	Kg.	5,6

NOISE EMISSION OF THE PUNCHING MACHINE
NOISE VALUES ACCORDING TO ISO 3746
Lwa Sound power level dB (A) : 105,1 (+/-2dB)
Lpa Sound pressure level at operator station dB (A) : 98,6 (+/-2dB)
Use personal protective equipment complying with current legislation.

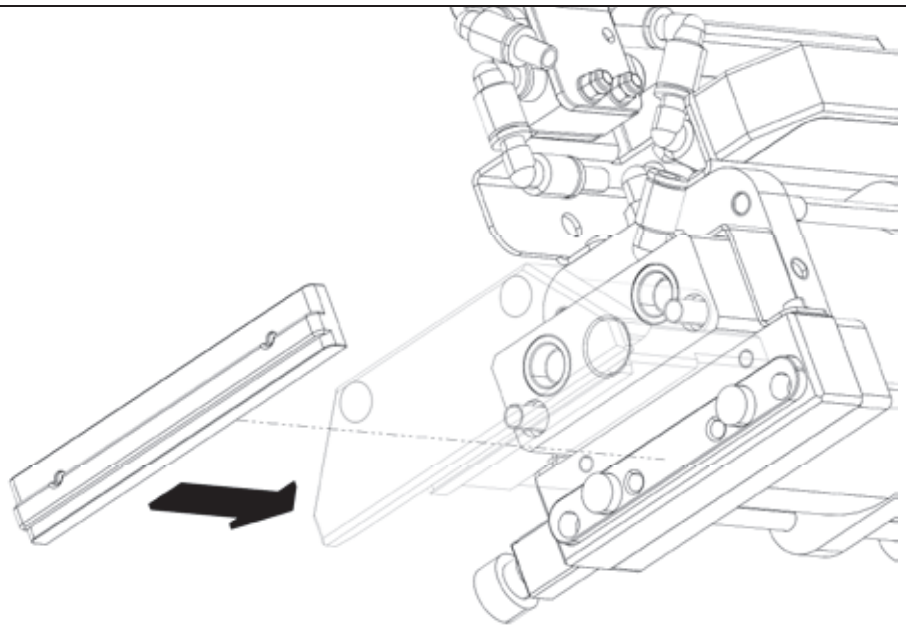
2.2 Components and connections

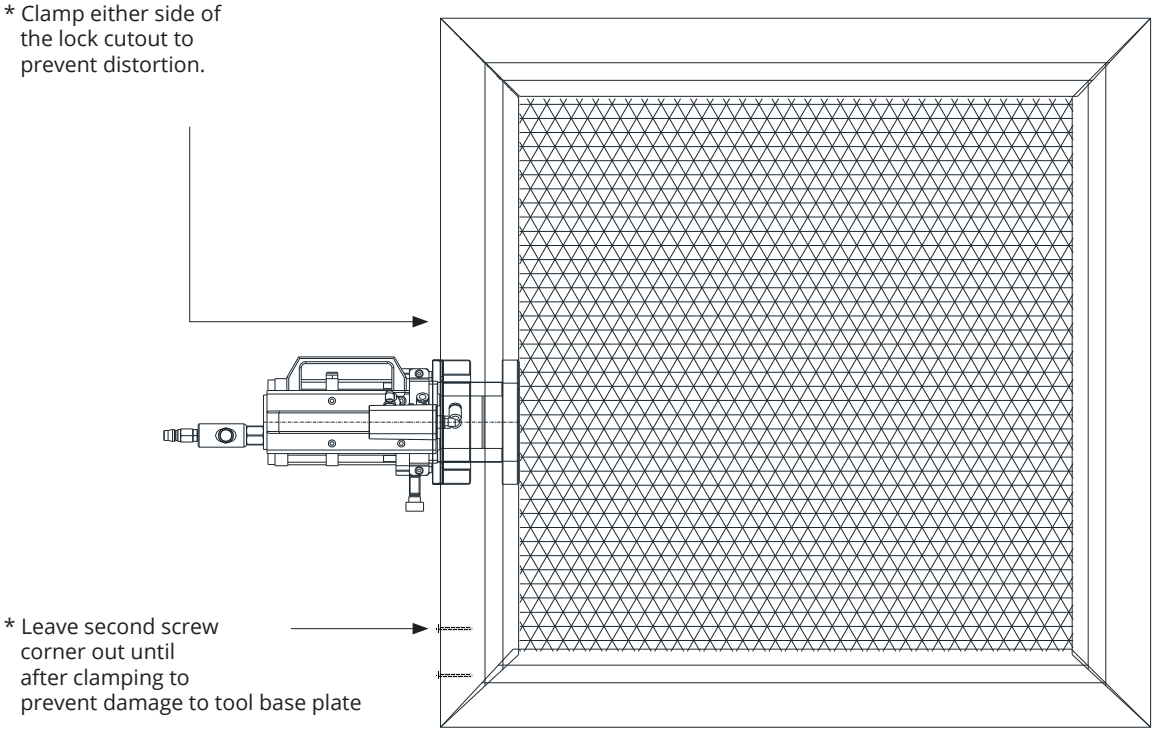


No.	Description
1.	Punching machine
2.	Profile support
3.	Profile support

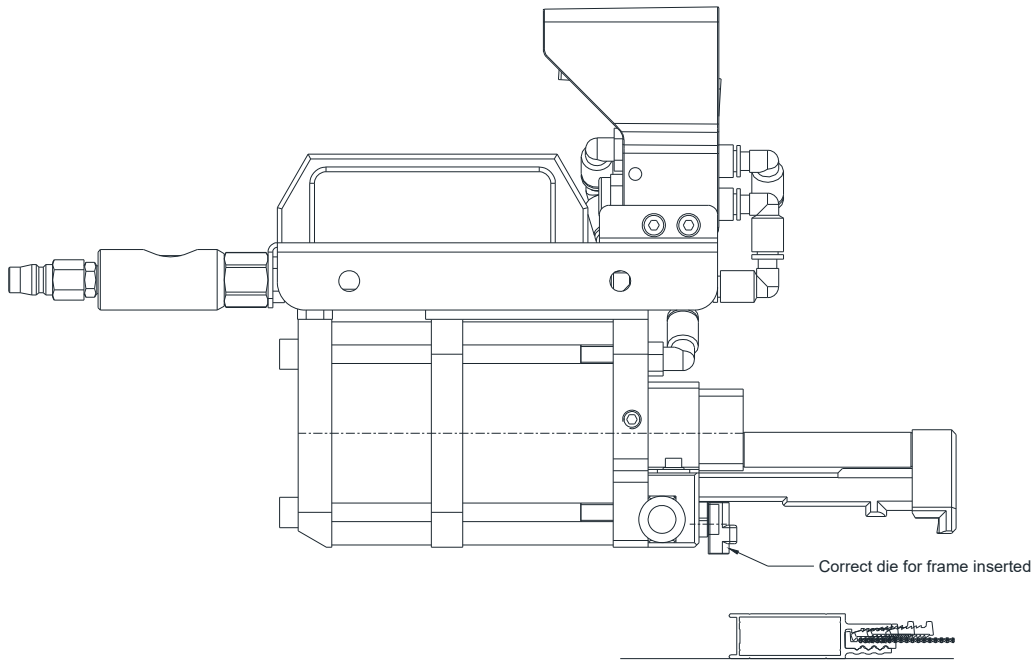
5.3 Profiles working

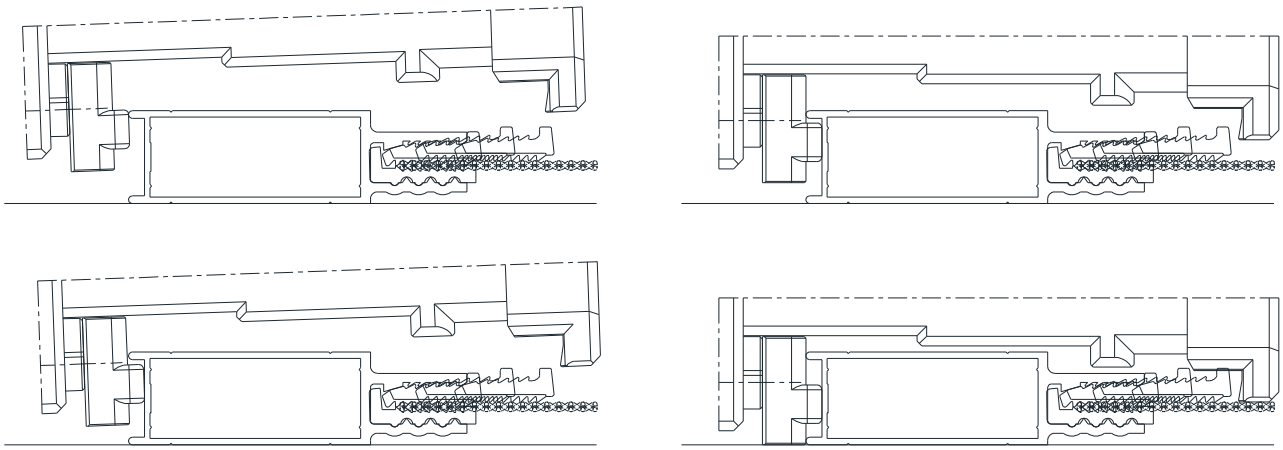
⚠	To avoid mistakes in the workings where there are adjustable stops, it is necessary to execute a preliminary working to check the correct position of the stops with the accessory which is used. Comall will be not responsible for possible modifications on the existing profiles or for the introduction of new profiles in the same system.





Work to be executed on AU01001.





PHASE 1:

- Mount the profile support according to the profile to be worked.
- Set the frame on a plane surface, with the wedges upward.
- Insert the punching machine from above on the frame.
- Pull the knob toward the outside.

Work to be executed on AU01001.

6.1 General maintenance

Lubricate dies and punches with oil spray or similar approximately every 25 machining operations (lubricate once a week anyway if the punching machine is not being used).		
Interval	Action	Personnel
Daily	Remove all machining residue from dies, work and contact surfaces (if necessary use a compressed air gun). NEVER USE HANDS OR FINGERS	Operator
Every week	Drain condensation from the air supply filter unit (if present).	Operator
Every week	Check the punches/knives and dies for wear and possible replacement.	Qualified personnel
Every month	Check and if necessary top up the oil tank on the filter unit (if present).	Operator
Every month	Clean out the compressed air intake filter (if present).	Operator

⚠	The maintenance operations described below must be carried out by qualified personnel.

6.1.1 Tools and dies replacement

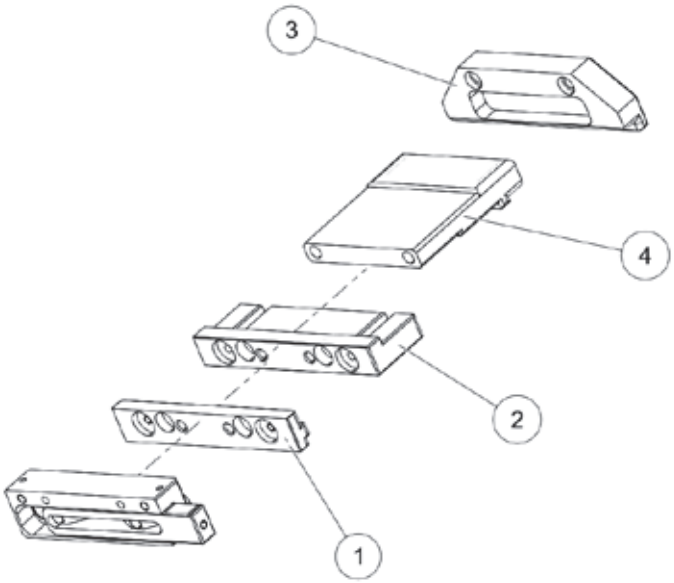
General rules to be followed when changing tools and dies.
Make sure there are no profiles or machining residue left in the insertion recesses before proceeding to change parts .
Move the machine to its end of travel in order to insert the tool into the die and disconnect the air supply, make sure the cylinder does not have enough energy to move it self, pushing the operating device (pedal and/or valve).
Change the used components being careful to divide equally the backlash/play between the tool and die, check the condition of all the nuts and bolts and if necessary change any that require it.
Caution before to put in function again the machine, assure that:
all parts substituted and/or the tools used to carry out maintenance must have been removed from the insertion machine
any safety guards removed or open have been correctly replaced and fixed.
Switch on the air supply again, check for any leaks in the punching machine pneumatic circuit and carry out few empty cycles.
Repeat the empty cycle test using profile offcuts to check the calibrations.

6.1.2 Problems, causes and remedies

Problem	Cause	Remedy	Personnel
Insertion tool shows a lack of power	Valve and/or pedal damaged	Replace	Qualified
	Pneumatic cylinder seal worn	Replace worn seal.	Qualified
	Worn punches and dies	Replace worn parts and those that cannot be re-sharpened	Qualified (unless indicated otherwise in the chapter on spare parts)
	Insufficient or lack of air pressure	Check the air supply	Qualified

7.1 Mechanical spare parts

Station 1



Spare part list

Pos.	Code	Description	Q.ty
1	MVX68336	Support	1
2	MVX68337	Support	1
3	MVX68094	Spring presser	1
4	MVX68333	Profile guide	1

SCREENGUARD Stainless Steel Mesh Security System Warranty

Darley Aluminium Pty Ltd ACN 076 364 657 ("Darley") warrants to the purchaser ("Customer") of ScreenGuard components and products ("Products") from a Darley approved Screenguard door fabricator that the products purchased well be free from defects in material for a period of 10 years from the date of purchase ("Warranty Period"). This warranty is not transferable.

Darley's obligation under this Warranty, and subject to approval of the claim by Darley or their duly appointed representatives, is limited to repair or replace the component(s) deemed to be defective. If a replacement part is supplied, the Warranty Period remains based on the original date of purchase of the product by the Customer.

To make a warranty claim under this Warranty, the Customer must;

1. Inform Darley as soon as the warranty claim arises by contacting the security door fabricator that supplied and installed the Products ("Security Door Fabricator") within 30 days after the defect in the Product becomes apparent to explain the circumstances of your claim and to arrange a service call.
2. Provide the Security Door Fabricator / Darley with proof of purchase of the Product. The original sales receipt is your best proof of purchase.
3. The Security Door Fabricator / Darley will make its own evaluation of the fault stated by the Customer before any warranty claim is accepted and the Customer must provide reasonable opportunity for the Security Door Fabricator / Darley to inspect the Product after a warranty claim is made.

The application of this Warranty is subject to the following conditions;

1. The customer being registered with the Security Door Fabricator by completing and returning the detachable portion of this document supplied at the time of the installation;
2. The product being operated in accordance with the operating instructions;
3. The product being maintained in accordance with Darley`s preventative care and maintenance guide. Proof of maintenance and service must be demonstrated and provided on request.
4. The product must be fabricated and installed in accordance with the ScreenGuard Fabrication manual.

In addition to the above, this Warranty does not cover;

1. Extra charges such as travel and after hours call outs;
2. Fair wear and tear;
3. The correction of any non-Product fault or problem;
4. Any alteration to the Product in any way;
5. Damage or problems or unsatisfactory performance caused by non compliance by the Customer with Darley`s preventative care and maintenance guide or inappropriate cleaning of the Product;
6. Damage or problems or unsatisfactory performance caused by the use of an accessory, component or Product not supplied by Darley;
7. Damage or problems or unsatisfactory performance caused by storm, fire, flood, hail, atmospheric fall out, vandalism, misuse, negligence, Acts of God, earthquake, war, vermin, foreign matter entering the Product (e.g. dirt, sand ,salt, moisture) or any other outside agency;
8. Damage caused by person other than Security Door Fabricator / Darley personnel while assessing the Product of any reason;
9. Any accessory item including any locks, handles, rollers, hinges and door closers supplied with the Product as these would be subject to warranty by the relevant manufacturer and supplier;
10. To the extent permissible by law, any incident or consequential damage (whether structural or otherwise) or failure due to accidental damage, impact, misuse, or negligence of any third party.

To the extent permitted by law, all costs of disposal, re-installation, cartage, freight, kilometre expenses, travel and insurance associated with this Warranty are to be paid by the claimant including all costs of Security Door Fabricator /Darley in attending to the assessment of the warranty claim where the defect is not covered by this Warranty.

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STAINLESS STEEL SECURITY MESH SYSTEM

Protect your family and your view

The following statement applies if the supply of the Products to Customer sale as defined in the Australian Consumer Law. In this statement, 'Our' means Darley, 'goods' means; products' and 'you' means 'Customer';

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement to refunds for a major failure and for compensation for any other foreseeable loss or damage. You are also entitled to have goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

To the extent permitted by law, all other warranties whether implied or otherwise, not set out in these warranty terms and conditions are excluded and Darley is not liable in contract, tort (including without limitation, negligence or breach of statutory duty) or otherwise to compensate you for;

1. Any increased costs or expenses;
2. Any loss or profit, revenue, business, contracts or anticipated savings;
3. Any loss of expense resulting from a claim by a third party;
4. Any special, indirect or consequential loss or damage of any nature whatsoever caused by the Company's failure in complying with any obligations.

The benefits given to you in this Warranty are in addition to other rights and remedies under law in relation to the Products to which this Warranty applies.

This Warranty is not applicable outside Australia.

Care & Maintenance Recommendations

Central within the ScreenGuard Security System is woven high tensile 316 grade stainless steel mesh and architectural aluminium framing. The woven design of the mesh in particular can attract impurities, salt and other contaminated particularly in corrosive and heavy industrial areas.

The ScreenGuard Security System will require regular maintenance to enhance its pristine appearance and prolong product life. Dependent upon the proximity from coastal beachfront, tidal waters and heavy industrial areas will determine the cleaning frequency.

PowaWash is a biodegradable. Environmentally friendly, tired and proven washing formula. Mix three caps of Powawash with every litre of water. It is recommended to use a soft bristled brush or non-abrasive cloth with Powawash or warm potable water and neutral detergent, then rinse with potable water. Abrasive cleaners and harsh detergents are not recommended as these can scratch or damage the surface area.

Failure to comply with this cleaning schedule will void the ScreenGuard 10 year Warranty.

ENVIRONMENT	DEFINITION	FREQUENCY
Mild	15km from coastal / rural / suburban areas	Every 6 months
Moderate	10km from coastal / high traffic areas	Every 3 months
Severe / Coastal	5km from coastal / marine / heavy industrial areas	Every 2 weeks

ScreenGuard PowaWash Concentrate

Mix 3 caps (25mls) per litre of water. It is recommended to use a soft bristled brush or non-abrasive cloth with Powawash or warm potable water and neutral detergent, then rinse with potable water. Abrasive cleaners and harsh detergents are not recommended as these can scratch or damage the surface area. Powawash is non-toxic, biodegrable and environmentally friendly.

ScreenGuard Product Registration

To register your ScreenGuard product, please go to *Product Registration* section of the ScreenGuard website: https://screenguard.com.au/

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Release Notes

Darley Aluminium
SCREENGUARD SECURITY SYSTEM

1.Technical Manual Release Notes

This page is intended to record all changes to the **SCREENGUARD SECURITY SYSTEM** technical manual pages.
Changes or additions to this manual will be itemised with a brief description and date when the amendments were made. It is important that a copy of the page be issued with the update and inserted as the first page in the customers technical manual.

ISSUE	DATE	DESCRIPTION OF CHANGE	REFER TO SECTION
1	May 2026	Testing clarification on Austral Elegance	page 21
1	May 2026	Addition on fixings	page 40