CityView™
Commercial Systems

45mm Water Rated Hinge Door

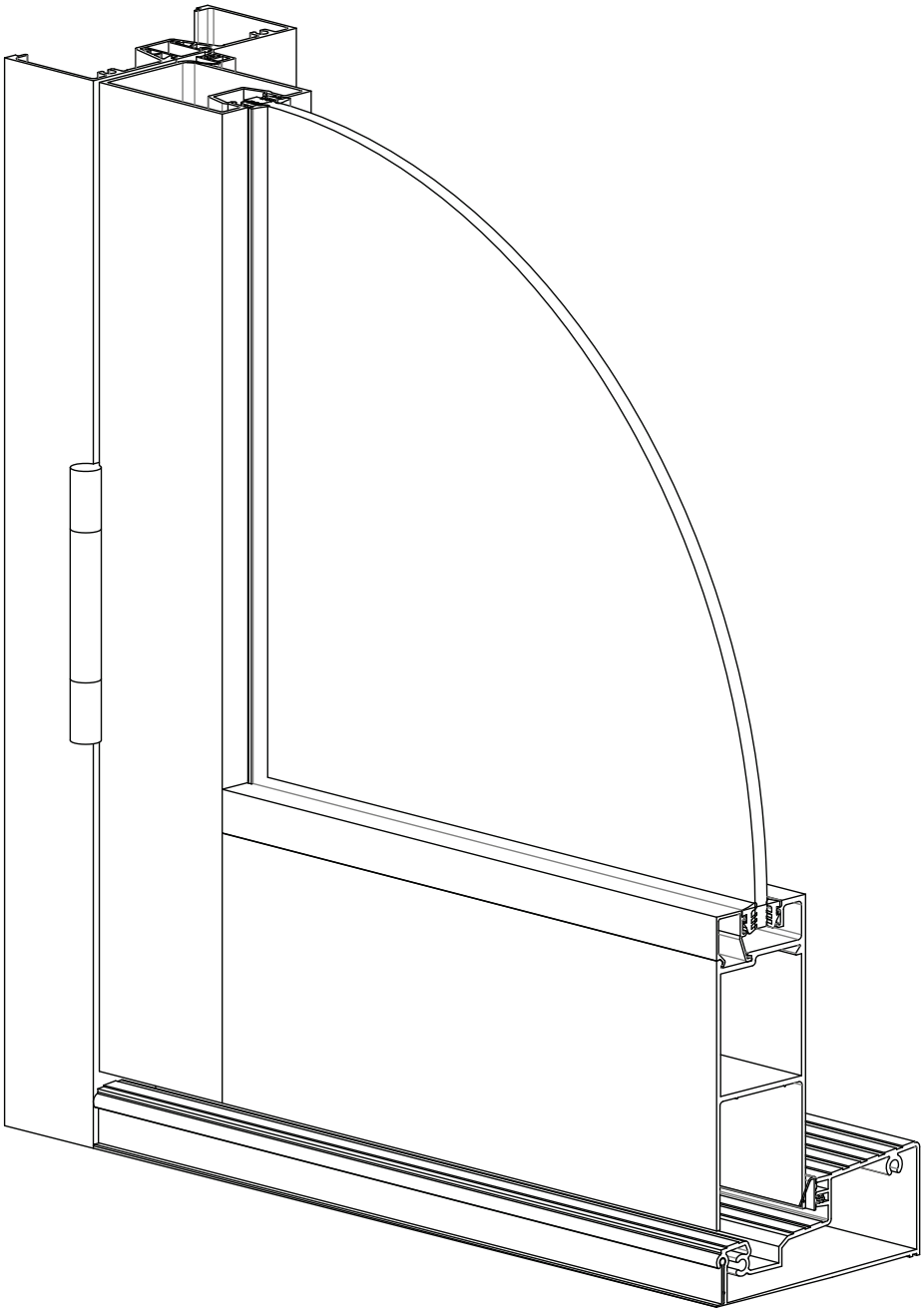
TECHNICAL MANUAL

SLS - 1500Pa
ULS - 3000Pa

Air - 0.59L
Water - 300Pa

Acoustic - Rw 34
12.5mm Hush

Fire Rating Tested
- BAL 40



53mm
76mm
101.6mm
150mm
165mm
200mm
250mm

U-Value 3.4 - 6.1
Max 28mm

Subsill & Sump
Draining

Transom
Draining

JUN 2026 | VERSION 9.0

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 Occasionally, some errors or outdated information may require rectification - Darley Aluminium takes no responsibility for any loss or damage as a result of these errors.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), AS 3959 (BAL) and WERS (Window Energy Rating Scheme). 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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Welcome

Overview

Darley's CityView 45mm Water Rated Door System is the market leading choice for hinge doors, providing a well-rounded solution to wind and water ratings.
The system provides excellent water ratings with and without subsills and is beautifully designed to use existing extrusions our customers are familiar with.
This allows fabricators to reduce waste lengths of extrusions and to easily understand methods of fabrications.

Design Features

- Accepts glass thickness from 6mm to 28mm.
- Compatible with other Darley Aluminium Commercial Systems
- Compatible with various Darley mainframe options
- Water rating achievable for inward and outward opening configurations
- Multipoint locking for a superior seal
- Inwards and outwards water ratings attainable without subsills
- Tested and Approved by an independent NATA accredited laboratory

Performance Summary

- Tested overall unit height of 2665mm
- Tested overall unit width of 1067mm
- Serviceability: 1500Pa Positive and Negative for both Inward and Outward Opening
- Air Infiltration:
  - 0.72 L/s.m^2 Positive and 0.96 L/s.m^2 Negative for Inward Opening
  - 0.59 L/s.m^2 Positive and 0.59 L/s.m^2 Negative for Outward Opening
- Water Penetration:
  - 200Pa for Inward Opening (without subsill)
  - 300Pa for Outward Opening (without subsill)
- Ultimate: 3000Pa Positive and Negative for Inward and Outward Opening (at 2400mm tall)
- (See 'Performance' section for more detail)
- Size limitations are governed by design intent, glass selection and local wind load and deflection requirements. For further technical assistance and fabricator selection contact Darley Aluminium.
- An Engineer should be consulted to ensure selected framing meets the requirements as set out in the relevant Australian Standards.

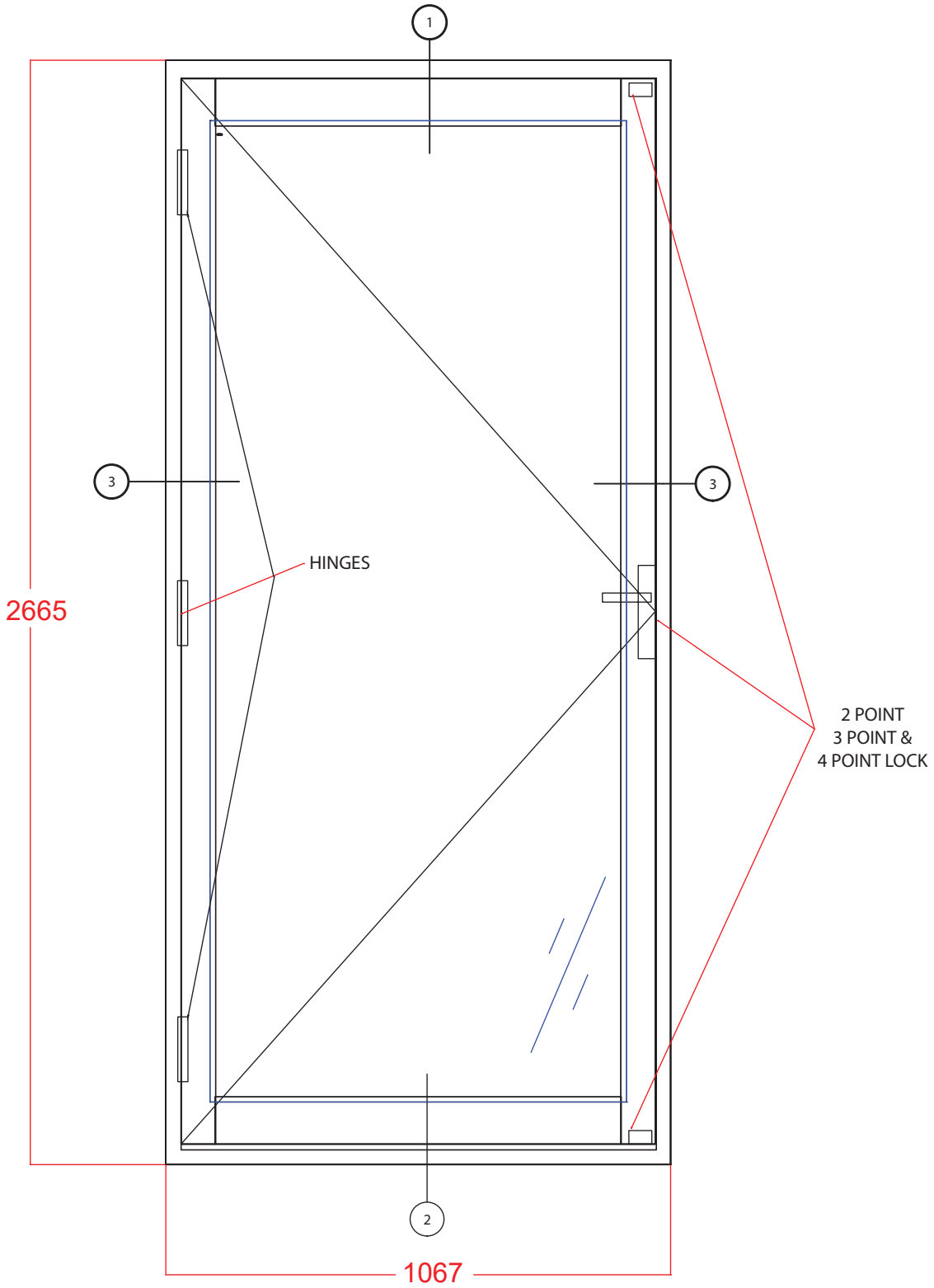
System Requirements

- Engineering, manufacture and installation of frames must meet requirements of:
  - AS2047-2048 (Windows in Buildings)
  - AS/NZS 1170 (Loading Code)
  - AS/NZS 1664 (Aluminium Structures Code)
- Glazing selected must meet requirements of AS1288 (Glass in Buildings)

Fabrication

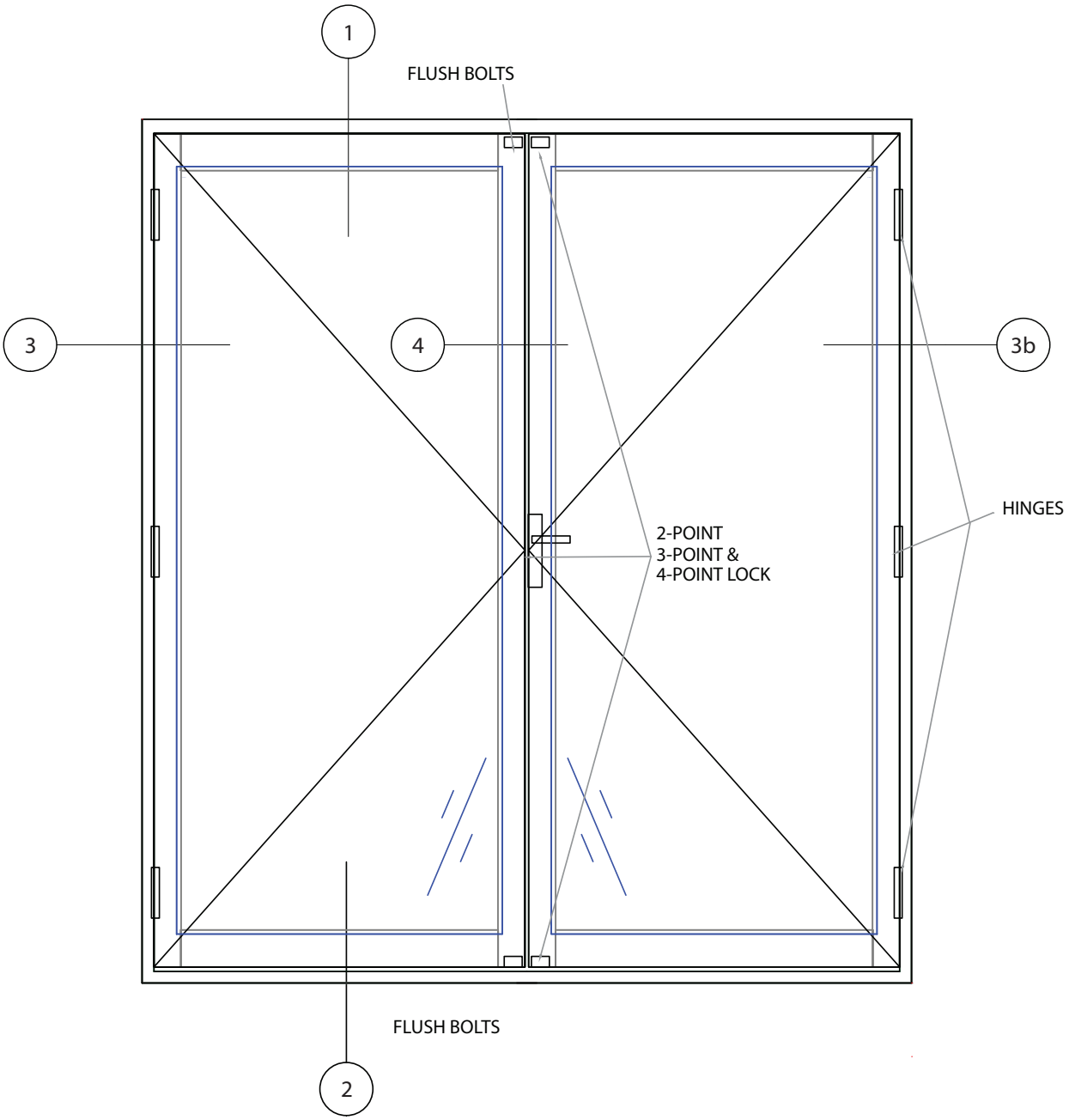
Configuration

General Configuration: Inward or Outward



Engineering, manufacture and installation must meet requirements of AS 2047, AS3959, WERS and Acoustic requirements. Glazing selected must meet requirements of AS 1288. Size limitations are governed by design intent, glass selection, and local wind load requirements as per AS/NZS 1170.2 or AS 4055.
N.B.- For frames, designs, and configurations outside the tested scope, an engineer or suitably qualified person should be consulted.
- All raw joints need to be sealed with small joint sealer or foam tab option.

General Configuration: Double Door



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General Configuration

	TJ Standard Options	HV Flush Face Options
Lock Stile	TJ440, TJ450 (DG) TJ418, TJ436 (DG) TJ312, TJ155 (SG)	HV312, HV271 (SG) HV291 (DG)
Hinge Stile	As above. Water Rated Door Requires Seals In Both Stiles	As above. Water Rated Door Requires Seals In Both Stiles
Rails	TJ313, TJ315 (SG) TJ419, TJ420 (DG)	HV289, HV273 (SG) HV277, HV275 (DG)
Glazing Beads	TJ314(SG) TJ227(DG)	HV274(SG) HV276(DG)
Midrails	TJ326(SG) TJ124(SG) TJ369(SG) TJ438(DG)	HV278(DG)
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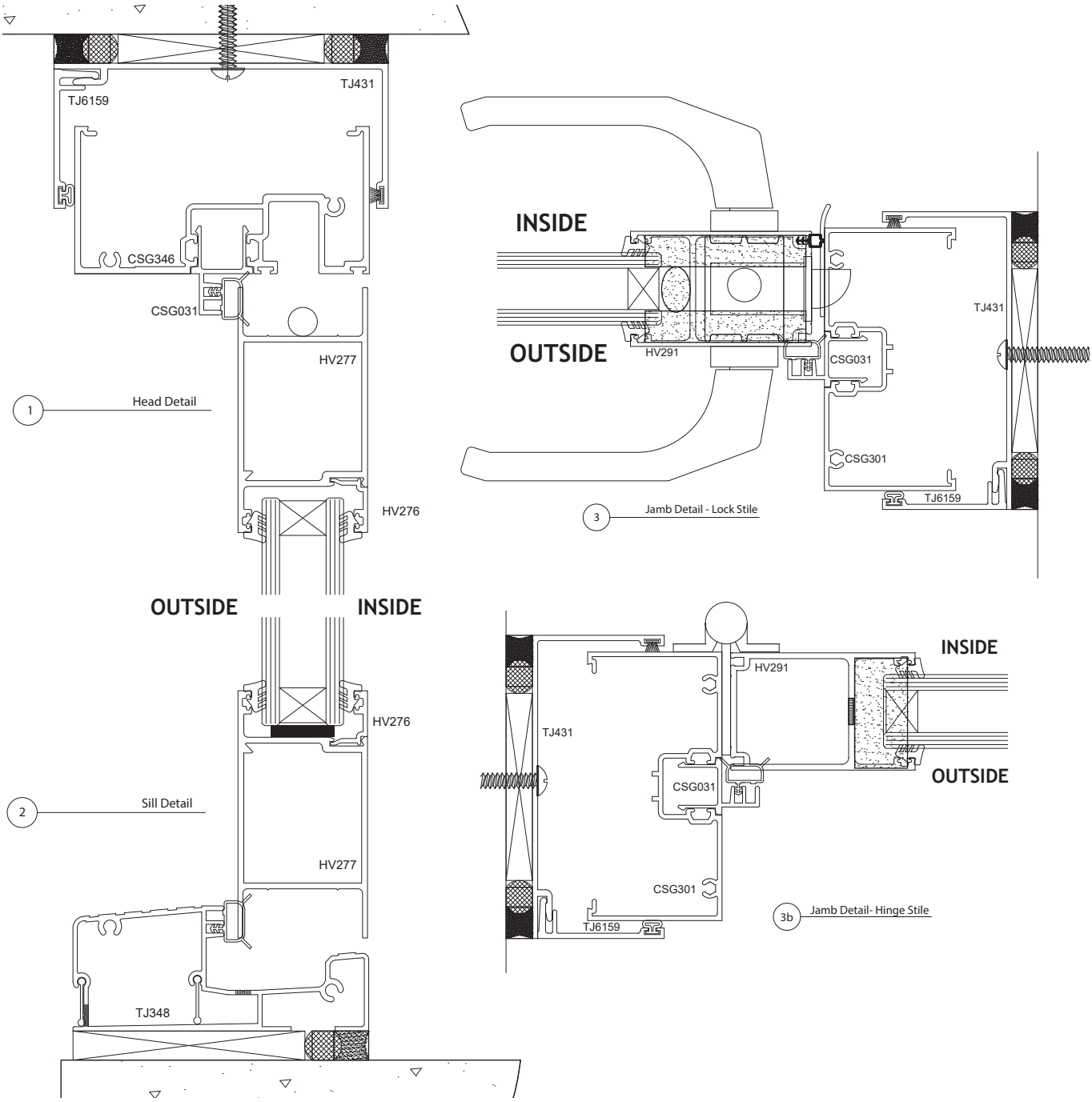
Cross Sections

Inward Opening



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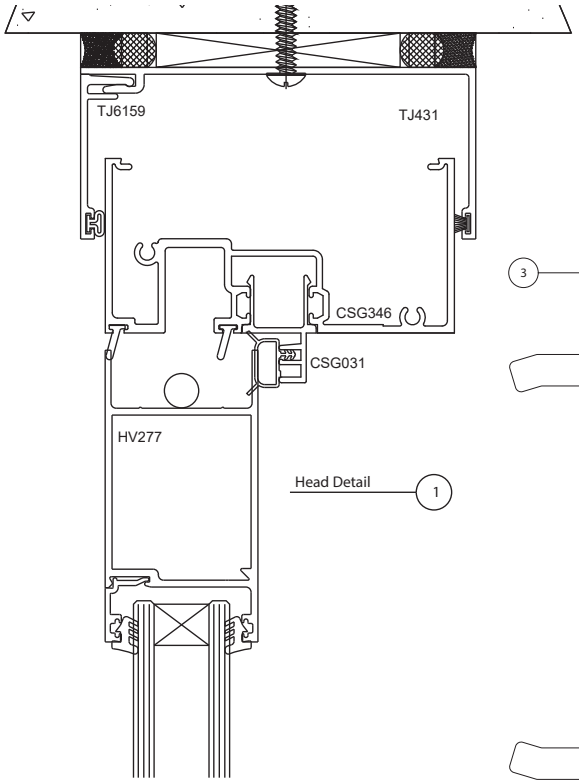
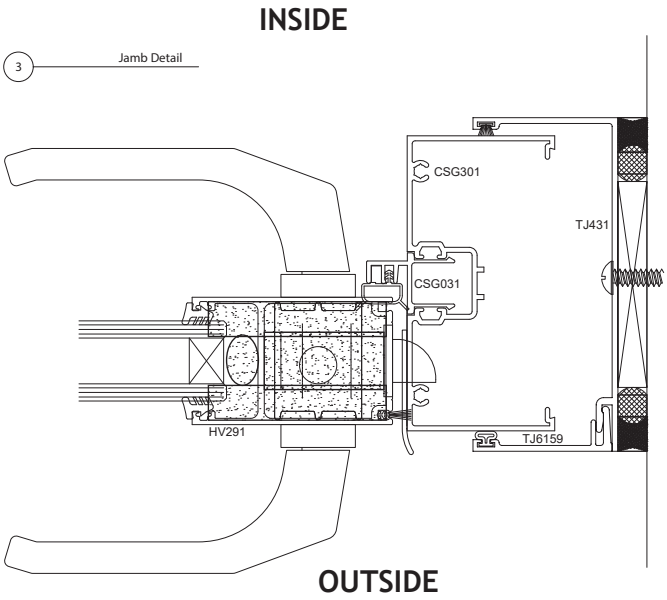
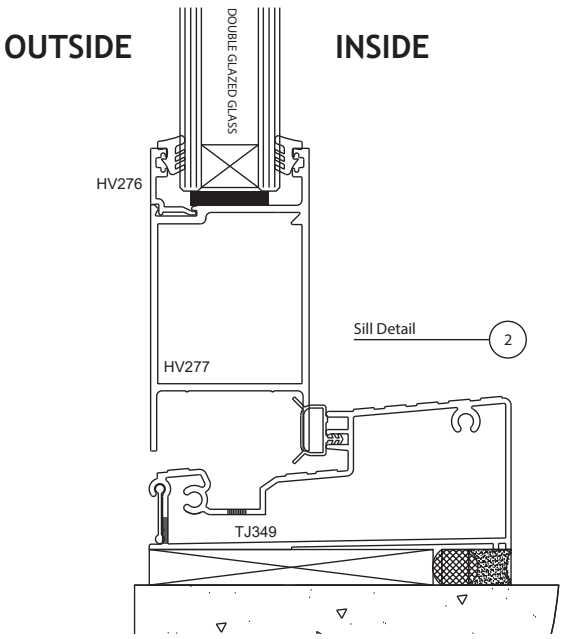
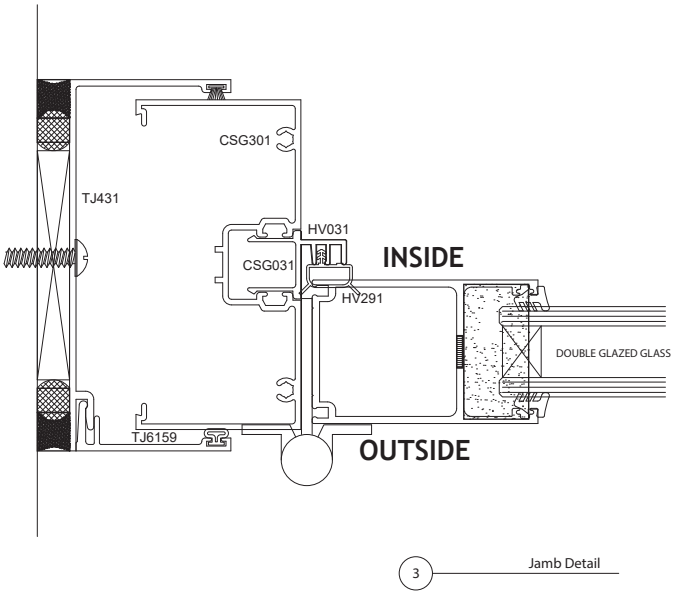
Outward Opening









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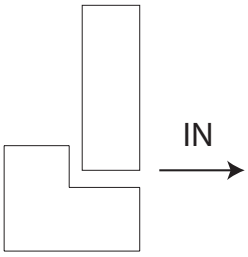
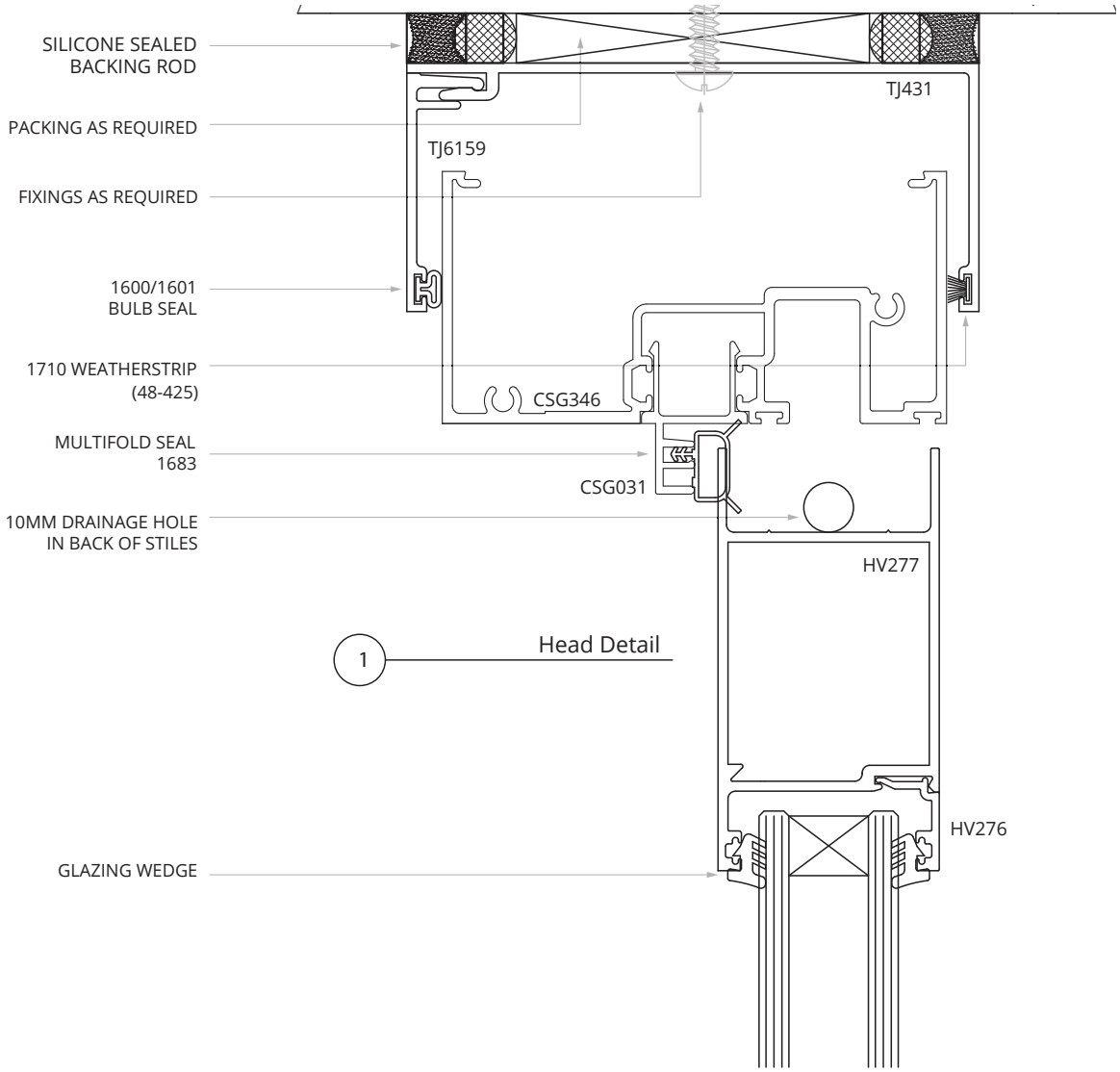
Head & Sill Option: Inward Opening





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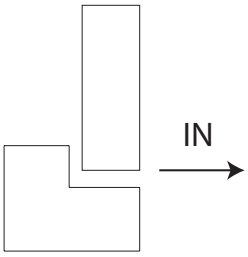
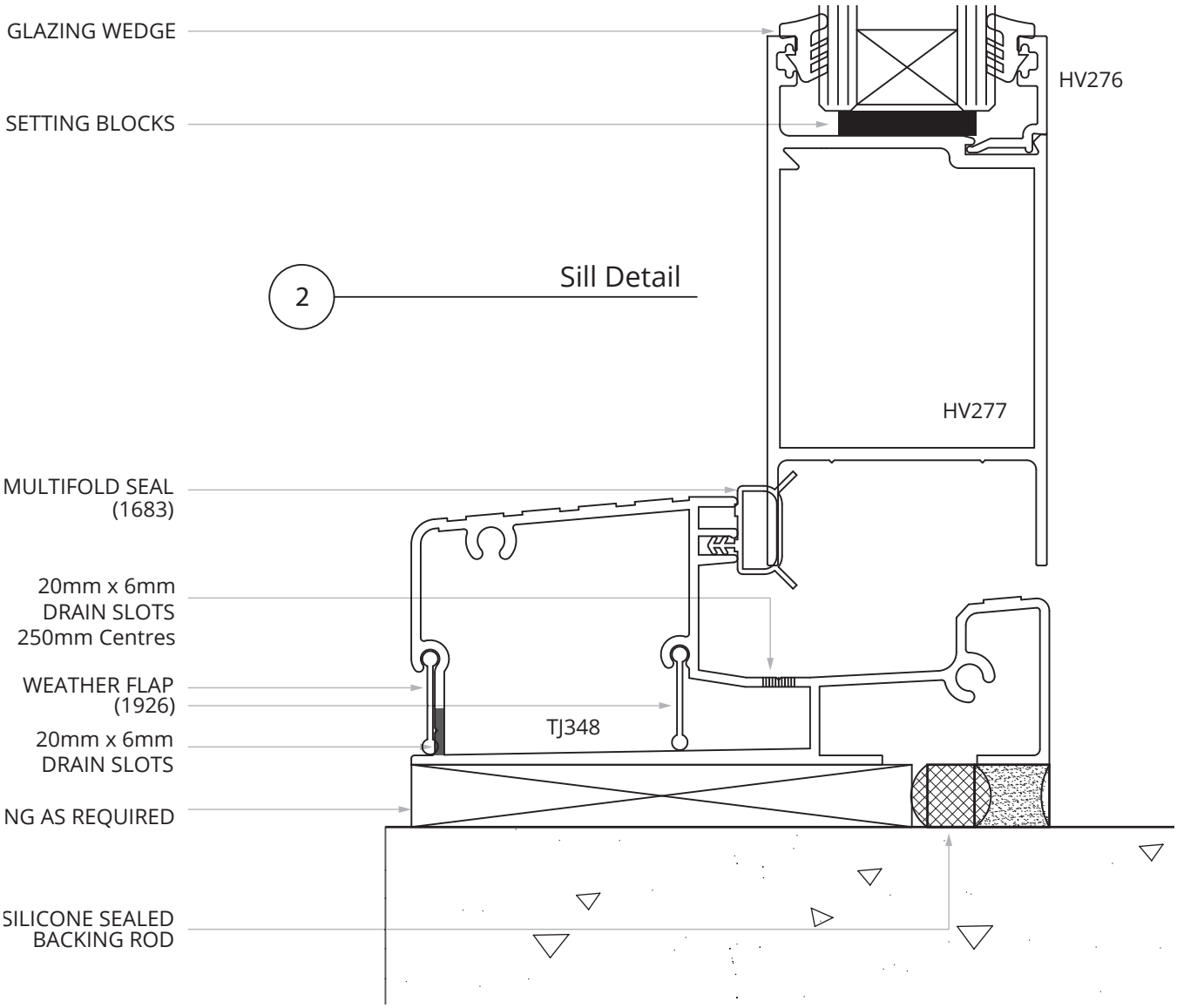
Sill Option:
Inward Opening



* 200Pa Water Rating
Achieved Without Subsill



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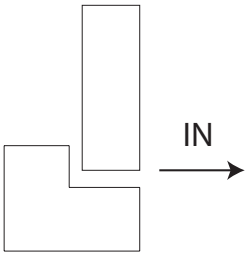
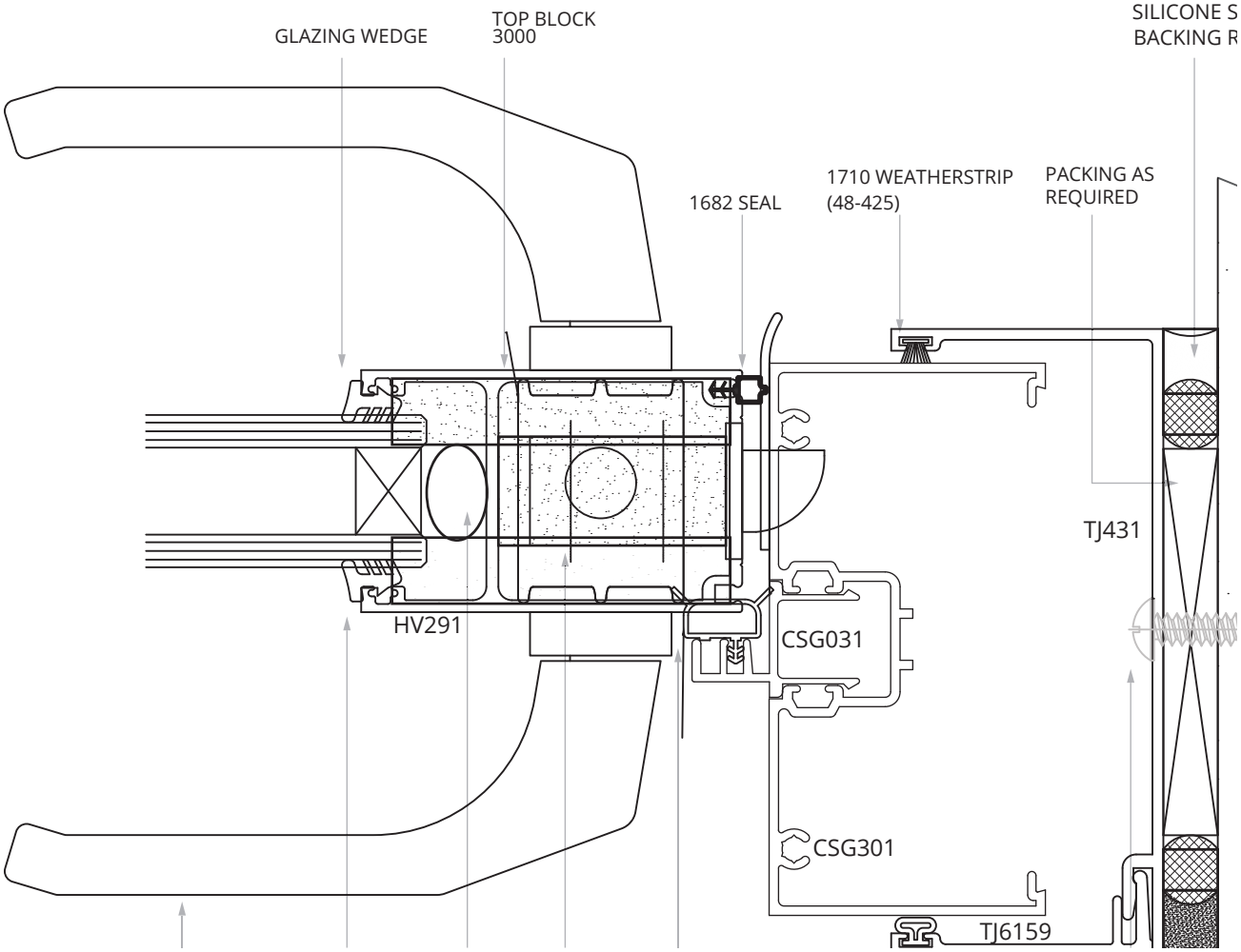
Jamb Option:
Inward Opening Lock Stile



3 Jamb Detail



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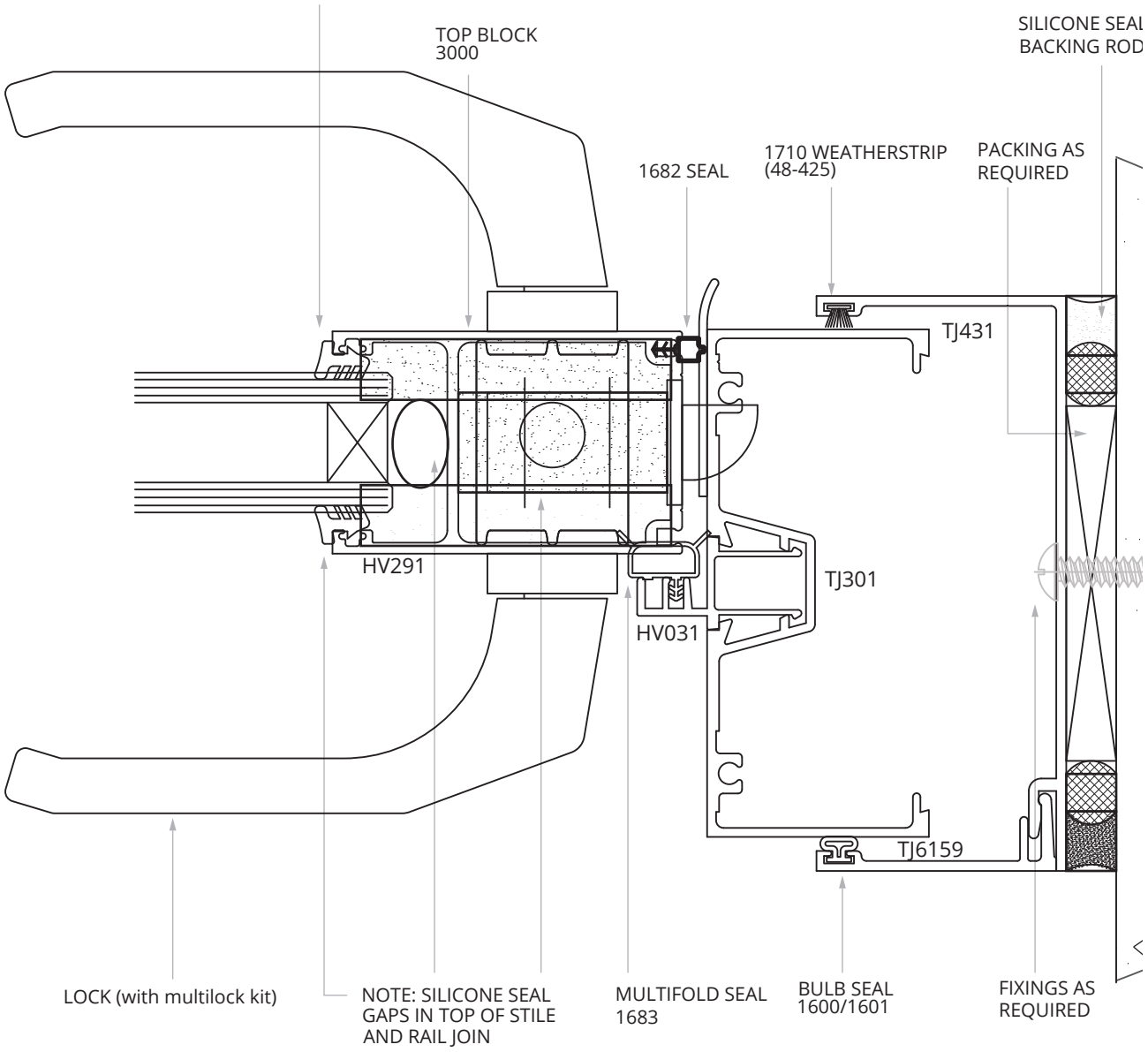
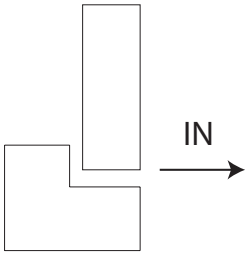
Alternative Jamb Option: Inward Opening Lock Stile





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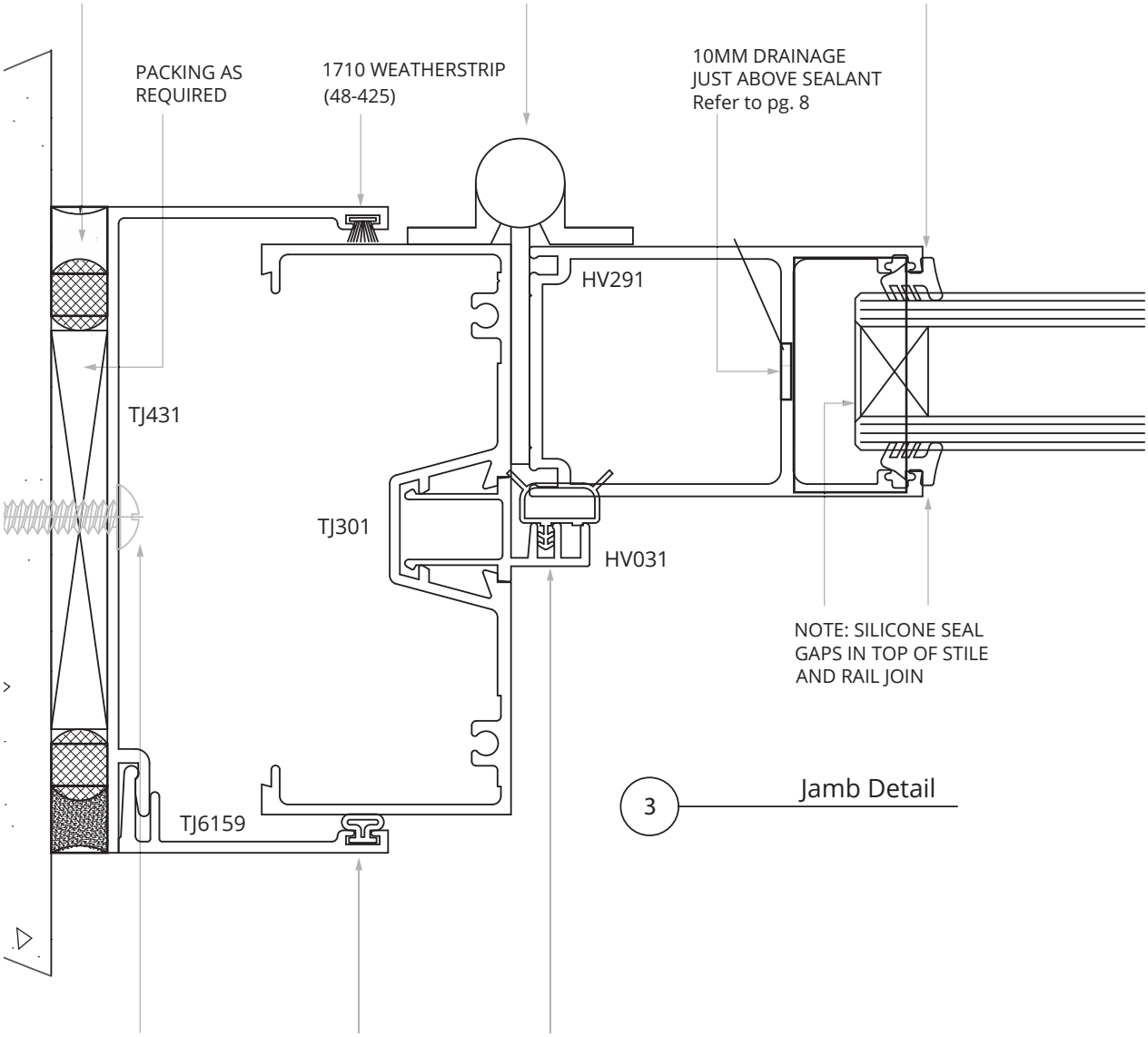
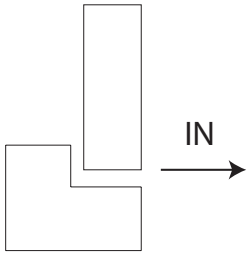
Jamb Option: Inward Opening Hinge Stile





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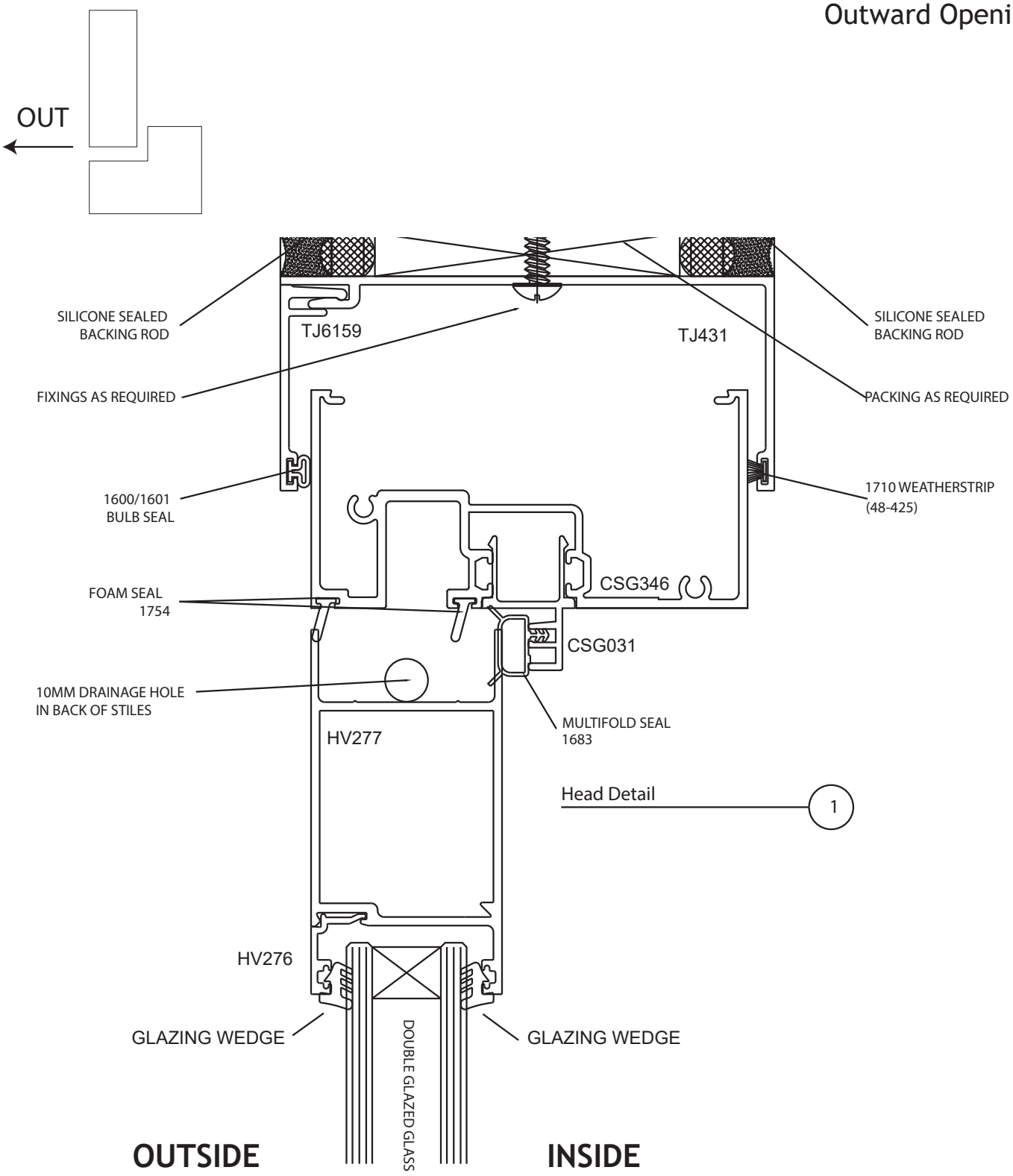
Head Option:
Outward Opening



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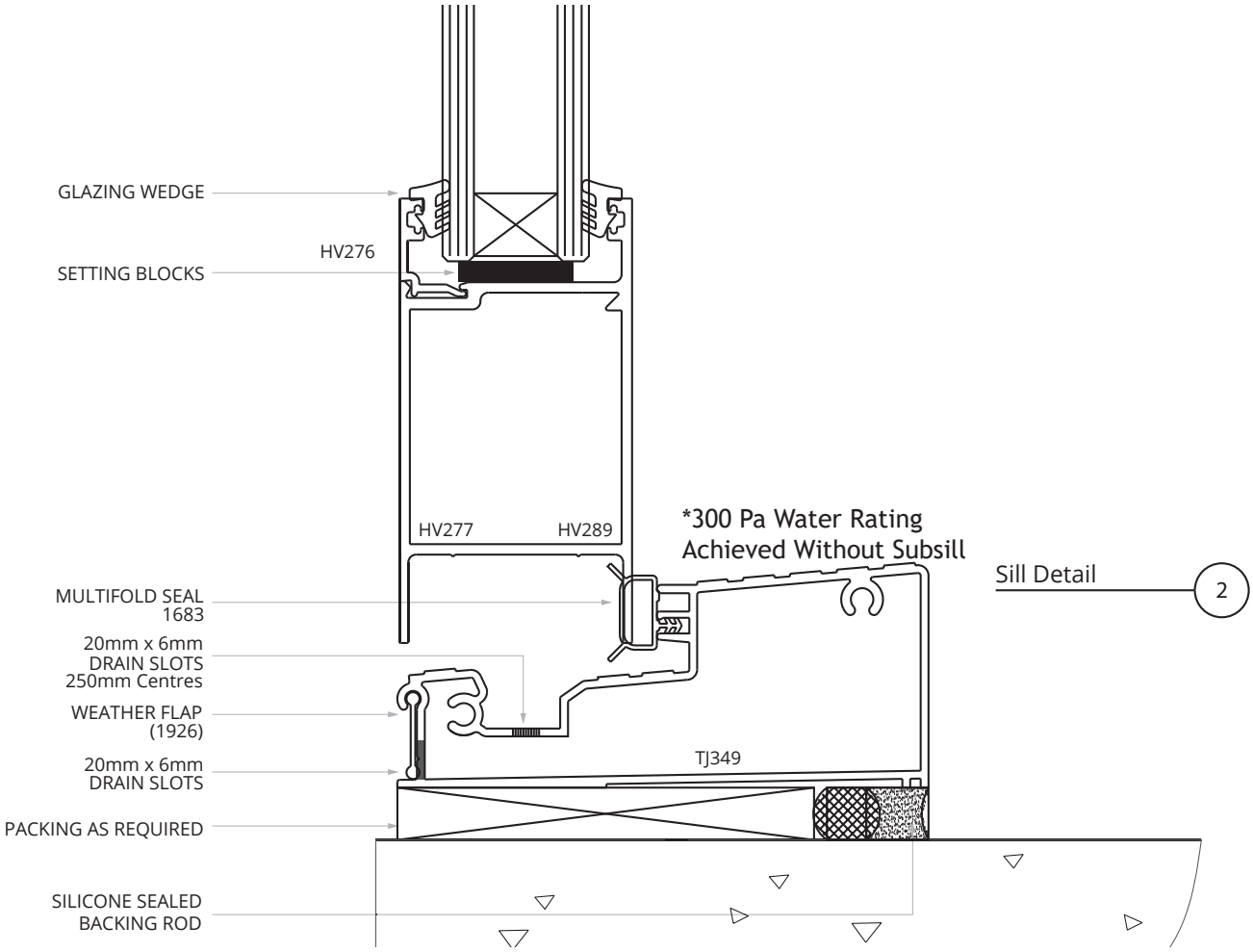
Sill Option:
Outward Opening



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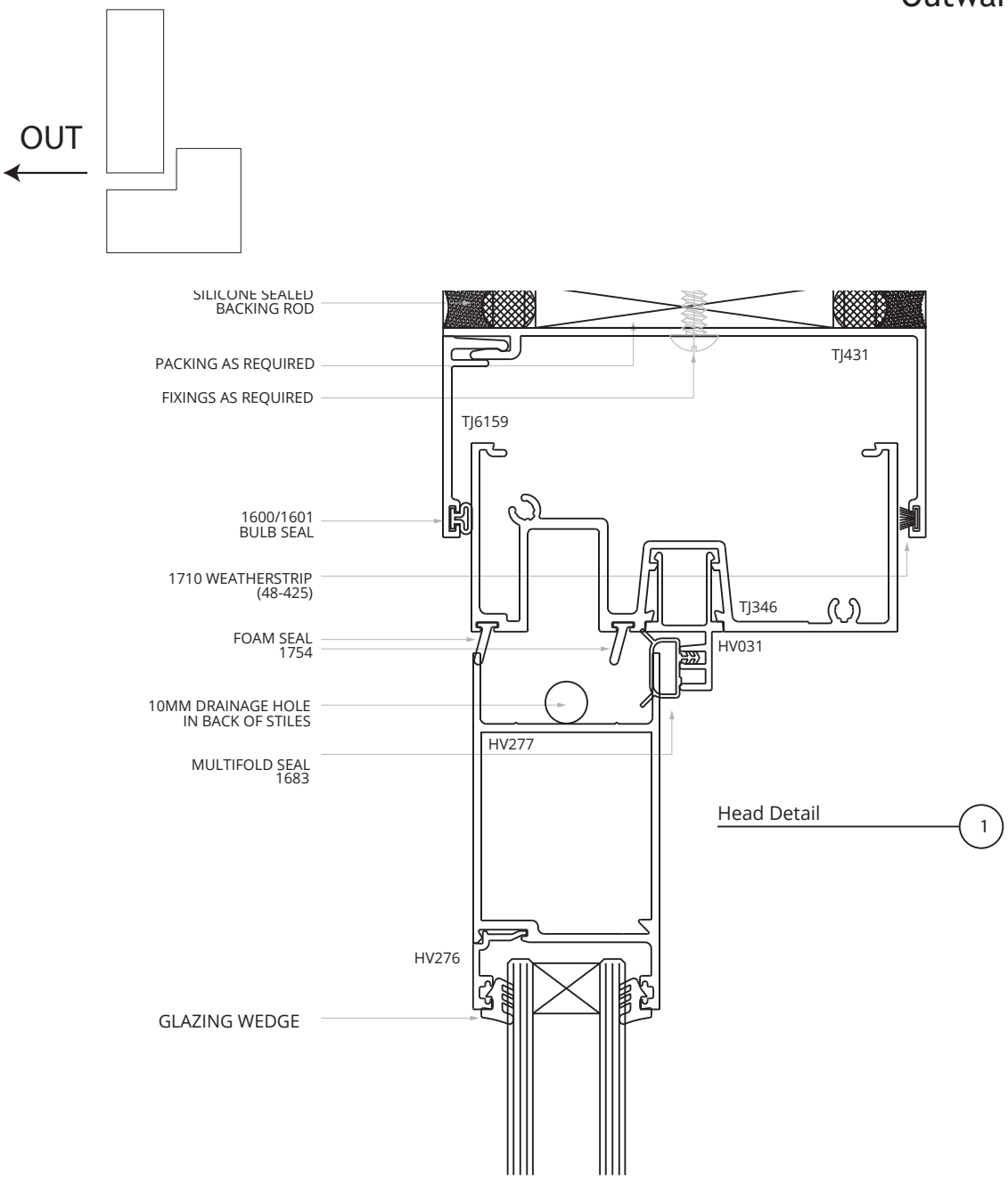
Alternative Head Option: Outward Opening



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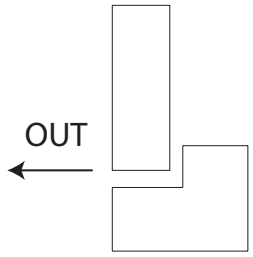
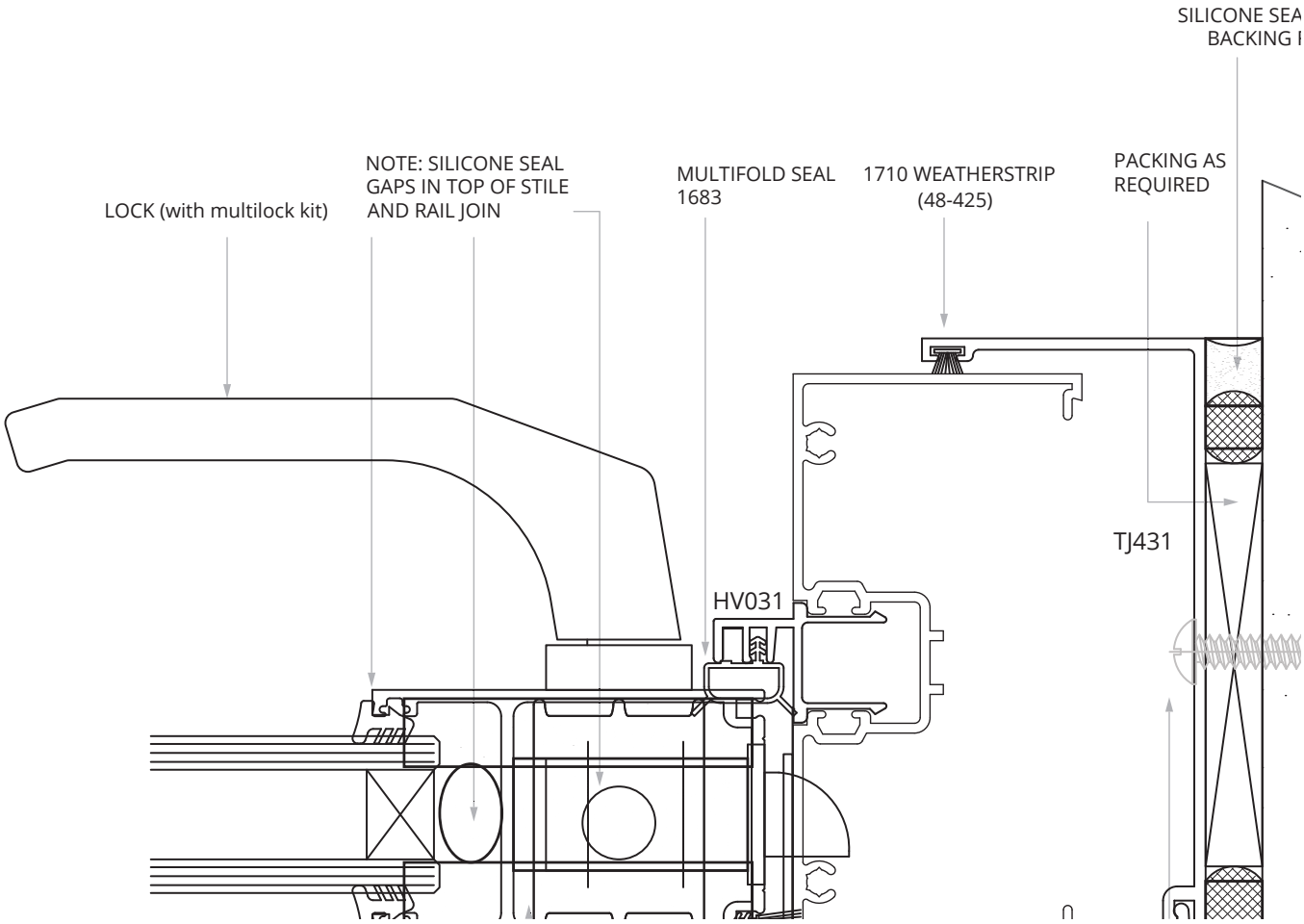
Jamb Option: Outward Opening Lock Stile



3 Jamb Detail



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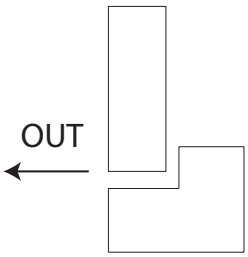

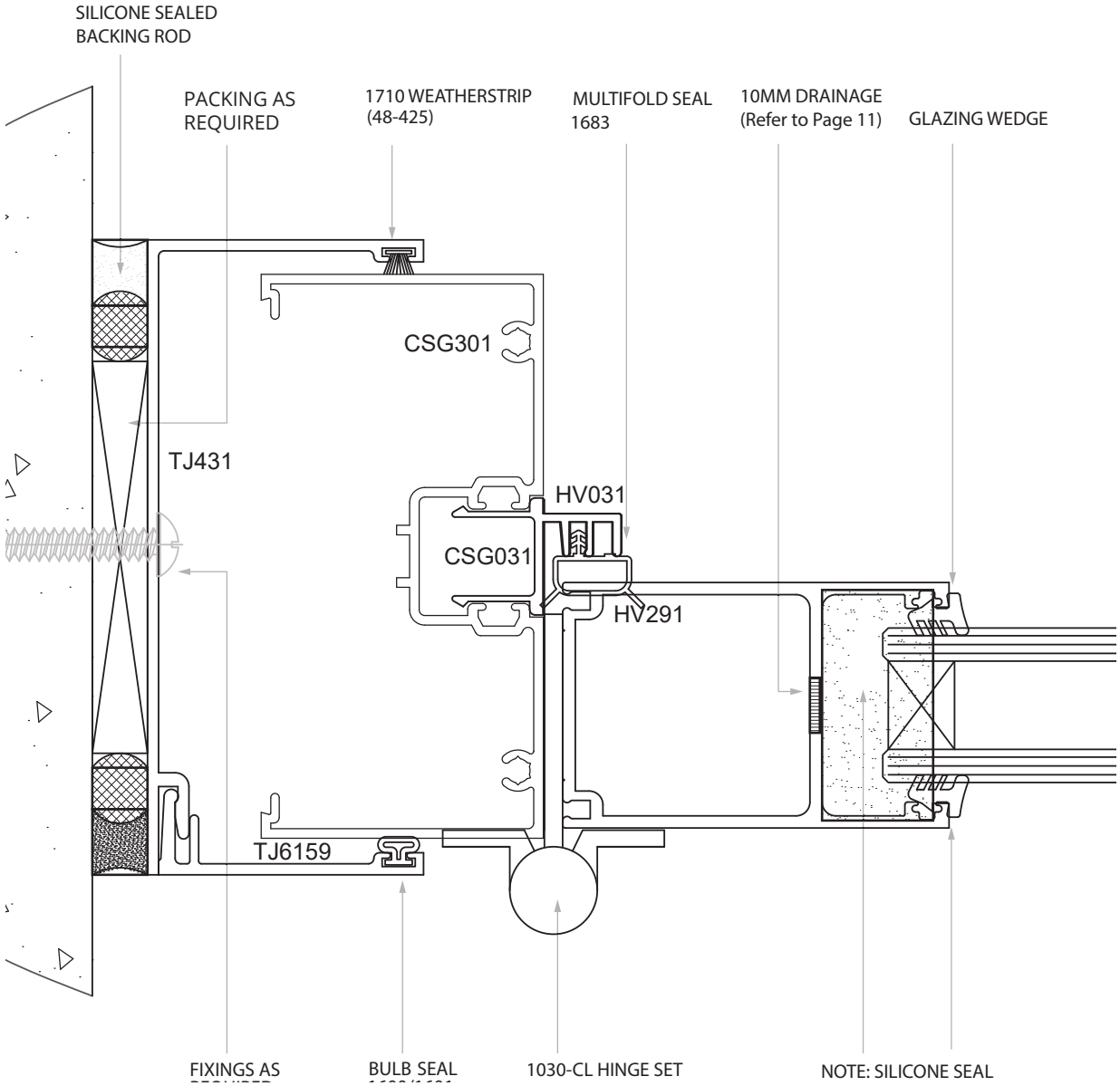

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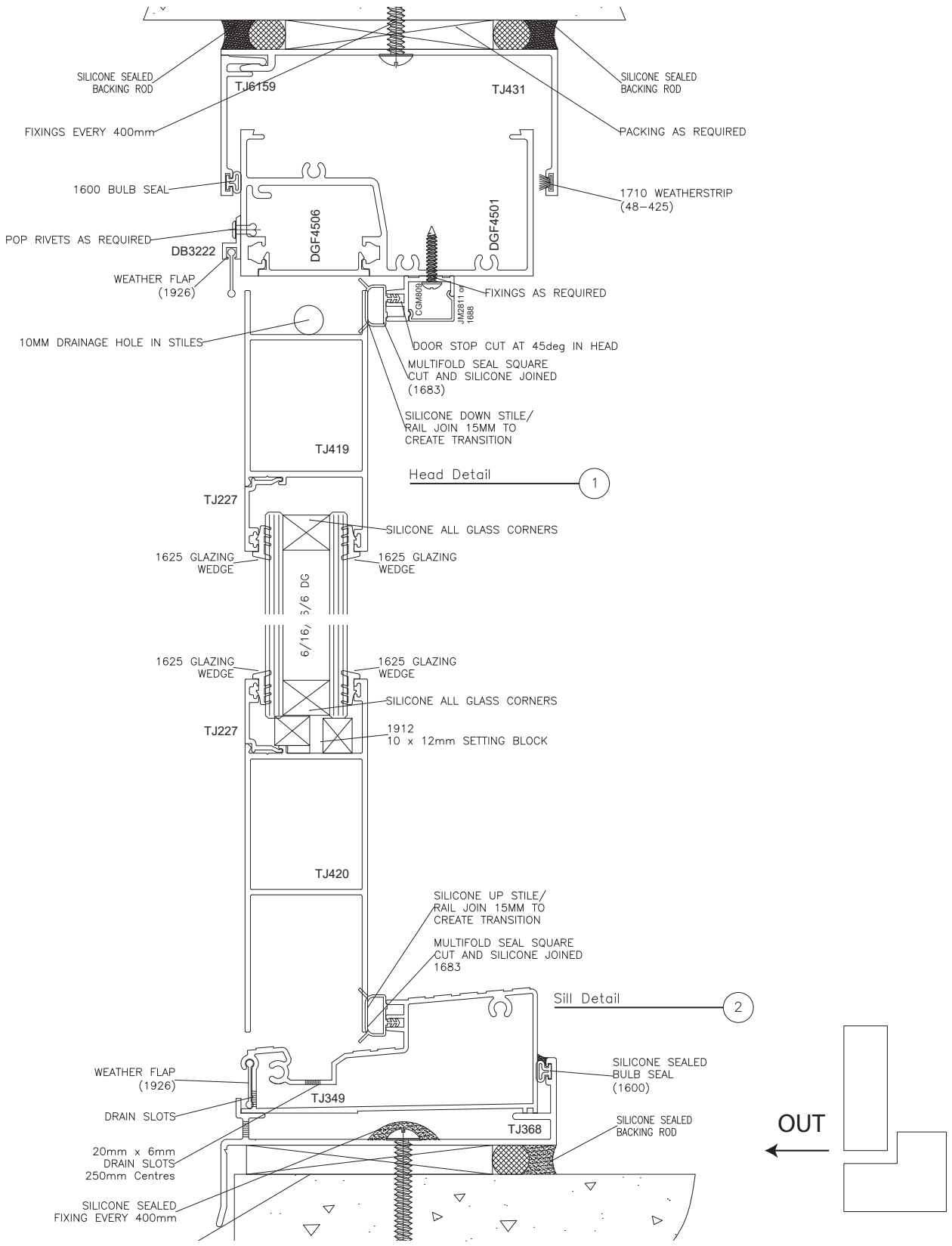
Head & Sill Option: Outward Opening Using 100mm Front



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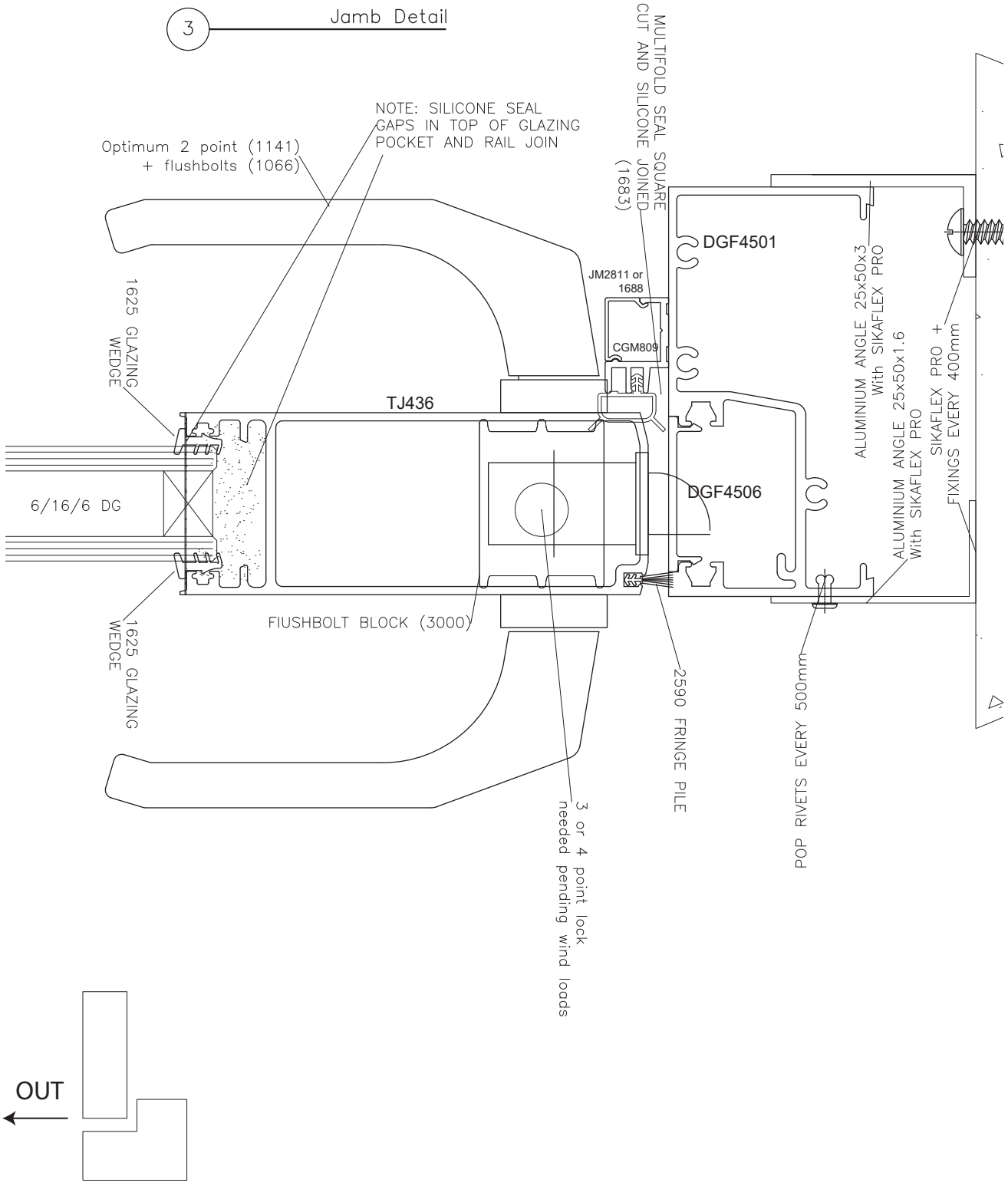
Jamb Option: Outward Opening Lock Stile Using 100mm Front



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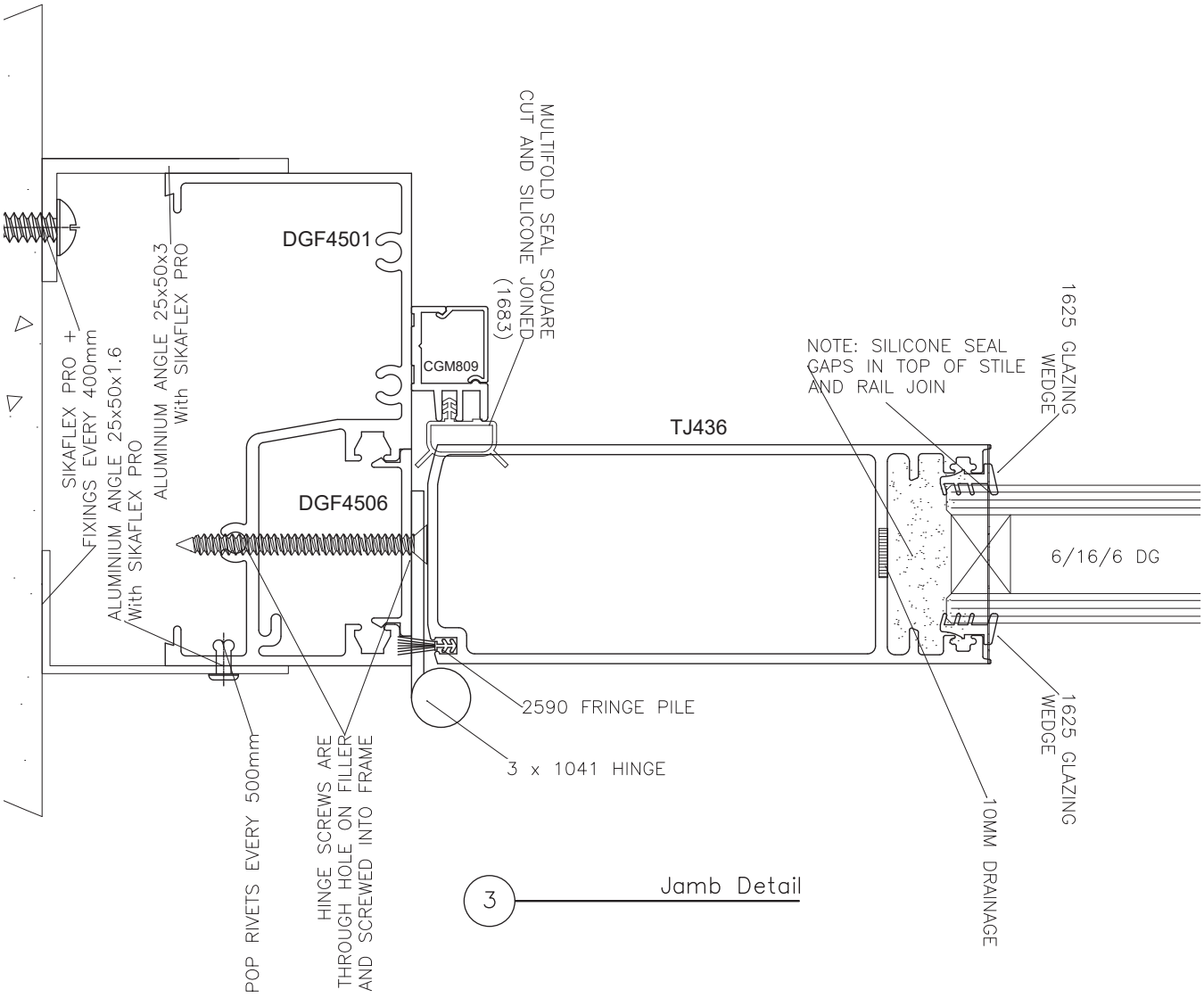

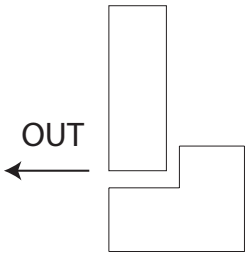

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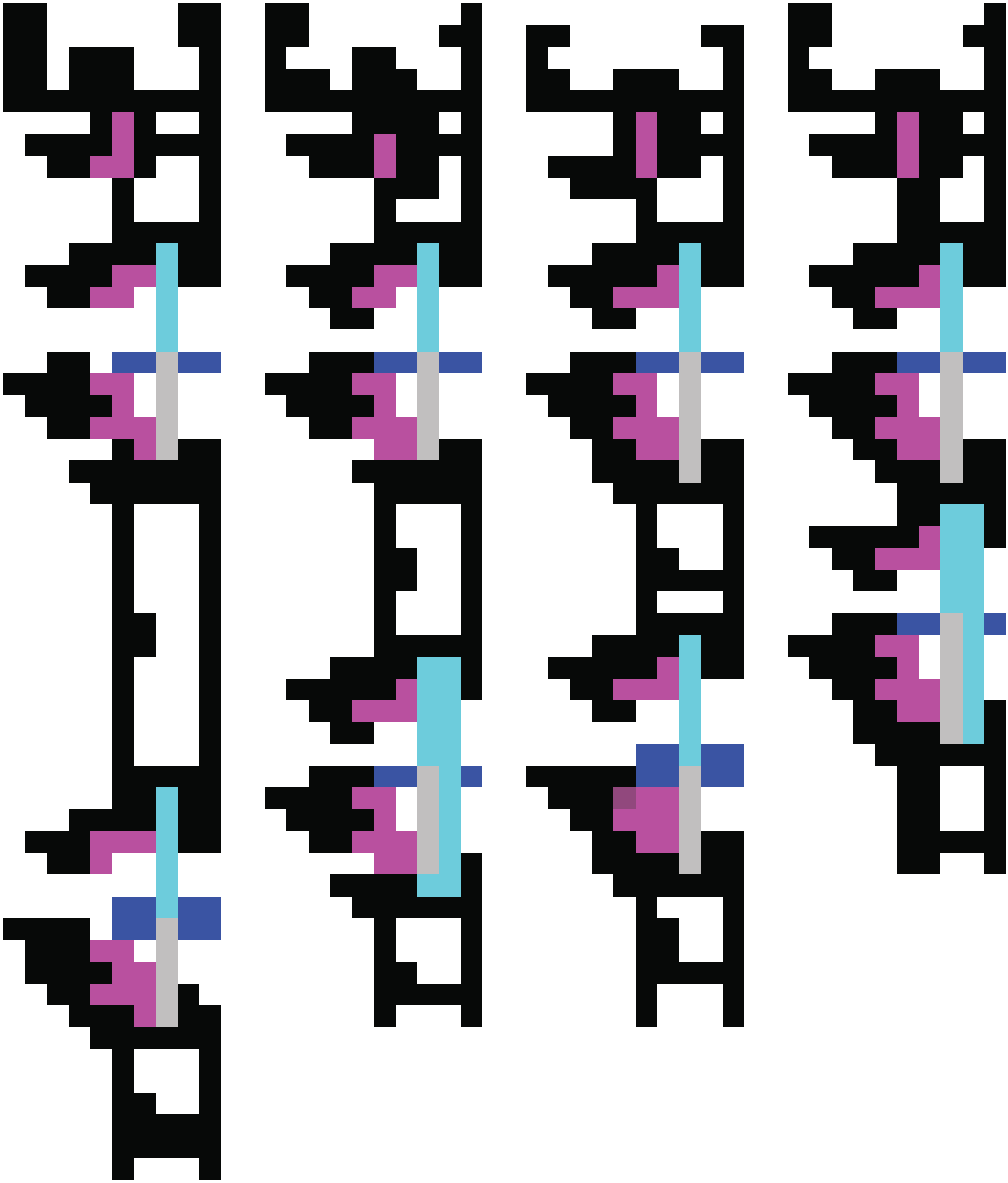
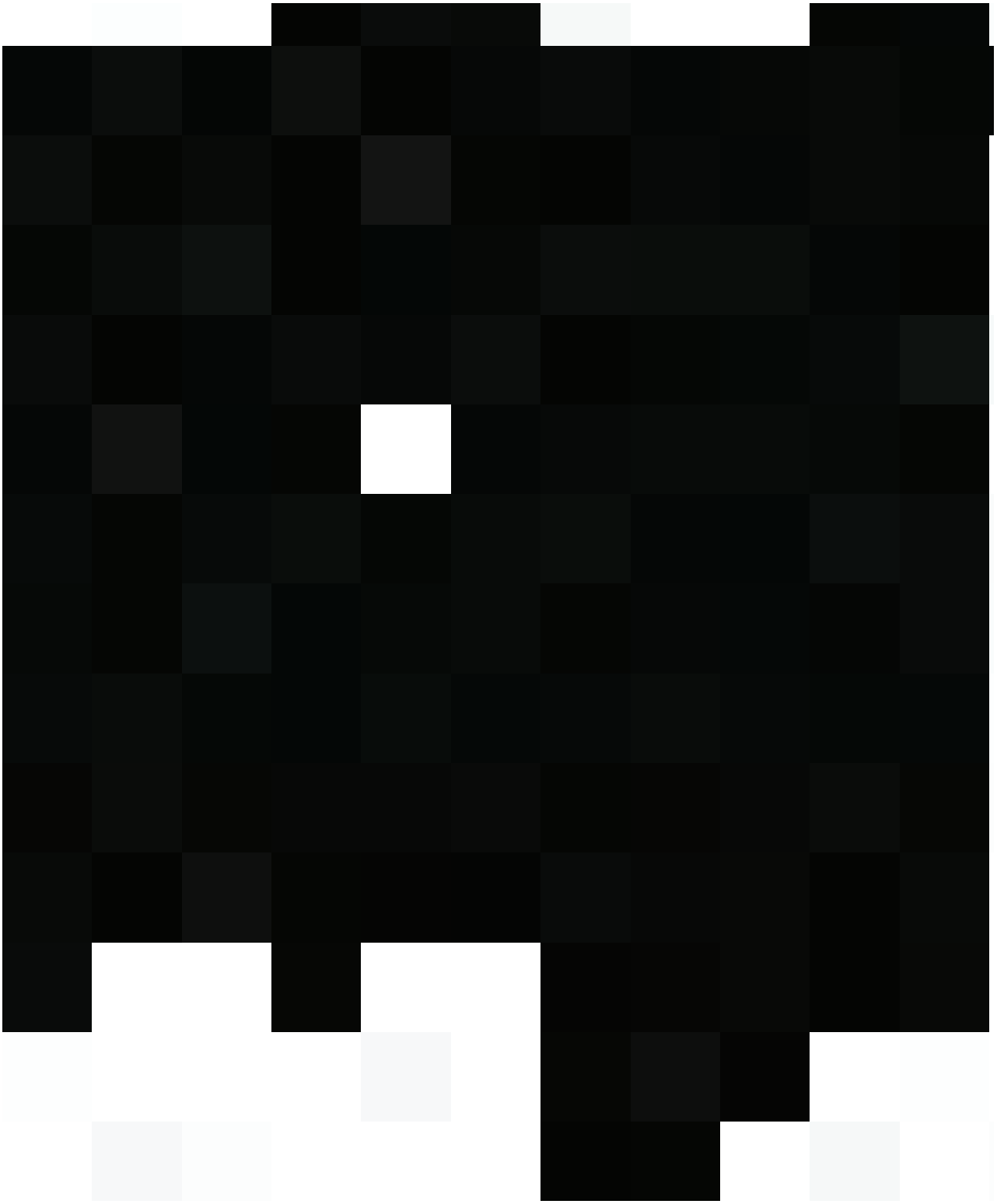
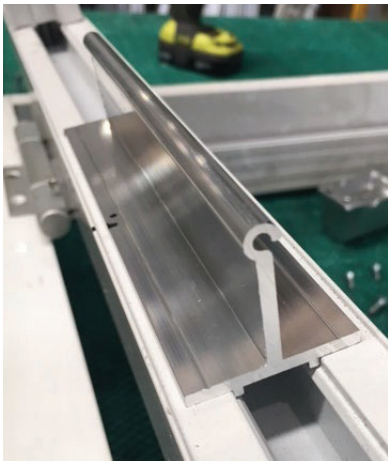
MidRails



MidRail Bracket Options

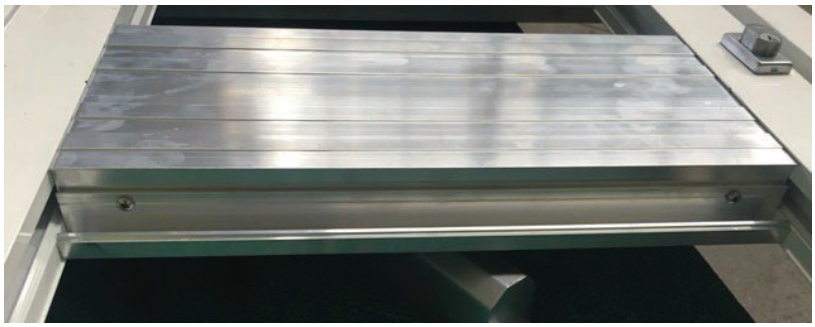


MidRail Bracket Installation



NOTES:
Cut to length depending on Midrail chosen

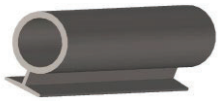
NOTES:
Fix using four screws or rivets



NOTES:
Slide Midrail over brackets & fix off into bracket flute location.

Hardware

Small Parts



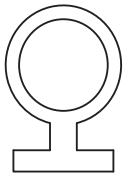
Bulb Seal
Part No. 1601 (co-ex) 1600

V- Seal
Part No. 1660

Transom Plug
Part No. 1493

Weather Strip
Part No. 1710

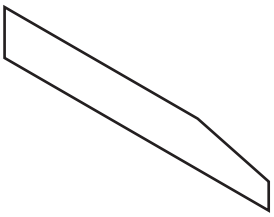
Fringe Pile
Part No. 2590



Bulb Seal
Part No. 1754
Co-Ex: 1601

Foam Seal
Part No. 1754

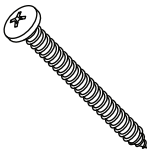
Frame Gasket
Part No.1472



Subsill End Dam
Part No. 1938

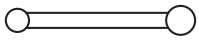
Glazing Wedge
Part No. 1630, 1625, 1620, 1615, 1623, 1933
(See 'Glass and Rubber Combinations')

Captive Wedge
Part No. 1651, 1684
(See 'Glass and Rubber Combinations')

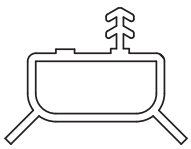


Screws
#10 x 25mm SS Pan
#10 x 50mm SS Pan
#10 x 25mm SS C/S

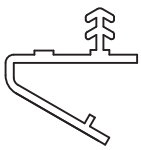
Skirting Infill
Part No. 1675



Weather Flap
Part No. 1926



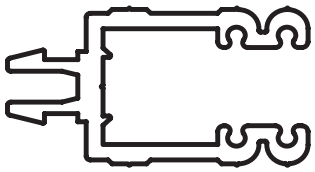
Multifold Seal
Part No. 1683



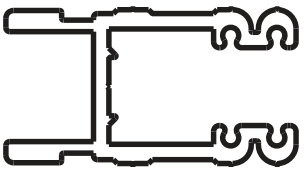
Multifold Seal
Part No. 1681

Small Parts

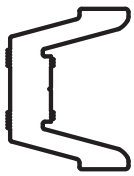
9-10mm Hole Plug
Part No. 1834



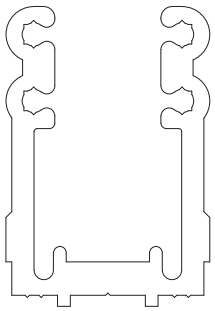
Single Glazed Spigot
Part No. 1825
Suits HV Stiles



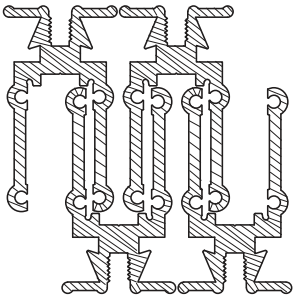
Double Glazed Spigot
Part No. 1826
Suits TJ440, TJ450, TJ418, & TJ436



Spigot Saddle
Part No. 1829
Suits 1820/1826/1816



Single Glazed Spigot
Part No. 1816
Suits TJ312 & TJ155

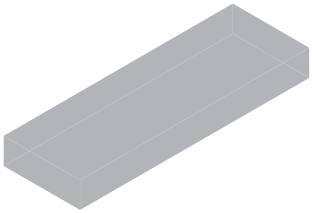


Open Pocket Spigot
Part No.1817
Single & Double Glazed
Set of 4 with bolts

Lanotec
Part No.
General Purpose Liquid: 1960
Citra Force Cleaner/Degreaser: 1961

Frame Packers
Part No.
1.5x90mm Blue: 1900-M
3x90mm Green: 1901-M
5x90mm Ochre: 1902-M
10x90mm Ochre: 1903-M

(100 per Bag for All)



Setting Blocks
Part No.
3mm: 1910
5mm: 1911
10mm: 1912

Door Closers

Yale/Arrow size 3 Standard Arm Door Closer (60kg MAX) Silver-Door Pulls Open From Inside Part No. 1069-3	Yale/Arrow size 2 Parallel Arm Door Closer (40kg MAX) Silver-Door Pushs Open From Inside Part No. 1070-3
Yale/Arrow size 4 Standard Arm Door Closer (80kg MAX) Silver-Door Pulls Open From Inside Part No. 1069-4	Yale/Arrow size 3 Parallel Arm Door Closer (60kg MAX) Silver-Door Pushs Open From Inside Part No. 1070-4
Yale/Arrow size 5 Standard Arm Door Closer (100kg MAX) Silver-Door Pulls Open From Inside Part No. 1069-5	Yale/Arrow size 4 Parallel Arm Door Closer (80kg MAX) Silver-Door Pushs Open From Inside Part No. 1070-5
Yale/Arrow Hold Open Arm suits 1069-3 & 1071-01 Closers Part No. 1071-03	Yale/Arrow Hold Open Arm suits 1069-4 & 1069-5 Closers Part No. 1071-04

Lockwood 2000 Series Door Closer, Silver -Standard Arm (Power adj sizes 2,3 and 4) -Parallel Arm (Power adj sizes 2 and 3) Part No. 1060
Lockwood 2000 Series Door Closer, Silver -Standard Arm (Power adj sizes 2,3 and 4) -Parallel Arm (Power adj sizes 2 and 3) -Back Check Included Part No. 1061

Yale/Arrow Power Adjustable Door CLoser- Size Range 2~6 Part No. 1071-01
Yale/Arrow Slide Arm Assembly Suits 1071-01 Part No. 1071-02
Yale/Arrow Hold Open Arm suits 1069 & 1071-01 Closers Part No. 1071-03

Ryobi 163P Door Closer-Parallel+ Hold Open Arms (60kg MAX)
Part No. 1085

Lock Options

Cylinder Not Included

Lockwood 3540F Series Single Cylinder & Lever
22mm Throw Bolt
(No Cylinder Included)
Part No. 1150

Lockwood 3541F Series Single Cylinder & Lever
28mm Hook Throw Bolt
(No Cylinder Included)
Part No. 1151

Lockwood 3542F Series Single Cylinder & Lever
35mm Hook Throw Bolt
No Strike Box
(No Cylinder Included)
Part No. 1152

Cylinder to suit 3540-
Key to Differ
Part No. 1126

Cylinder to suit 3540-
Key to Alike
Part No. 1127

Short Backset Mortice Lock - 22mm Throw
Cylinder & Turn
Part No. 1180

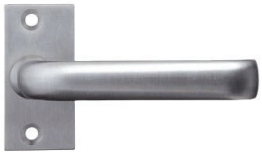
Short Backset Mortice Lock - 22mm Throw
Double Cylinder
Part No. 1181

Short Backset Mortice Lock - 36mm Throw
Cylinder & Turn
Part No. 1182

Short Backset Mortice Lock - 36mm Throw
Double Cylinder
Part No. 1183

Sliding Door Short Backset Mortice Lock - 29mm Throw
Cylinder & Turn with Strike Box
Part No. 1184

Sliding Door Short Backset Mortice Lock - 29mm Throw
Double Cylinder with Strike Box
Part No. 1185



Escape Lever
Part No. 1188

Lock Options

Optimum 2 Point Lock Body Only
30mm Backset
(Cylinder Not Included)
Part No. 1141

Strike- Standard to suit 1141
Optimum Lock S/Steel
Part No. 1137

Palladium Xtra Handle
Entrance Set - Black
To fit with 1141
Part No. 1142

Palladium Xtra Handle
Entrance Set - Satin Chrome
To fit with 1141
Part No. 1143

Palladium Handle
Black Suits 1141 Lock
Part No. 1147

Palladium Handle
Satin Pearl Suits 1141
Lock
Part No. 1148

Optimum / Palladium
Kits Black
(1141 Lock & Striker,
1147)
No Cylinder
Part No. 1153

Optimum / Palladium
Kits Satin Pearl
(1141 Lock & Striker,
1148)
No Cylinder
Part No. 1154

Euro Cylinder -
5 Pin/70mm Keyed
Alike Suits 1141 Lock
Part No. 1144

Euro Cylinder -
5 Pin/70mm Keyed to
Differ Suits 1141 Lock
Part No. 1145

Economy Euro Cylinder
-
5 Pin/70mm Keyed
Alike Suits 1141 Lock
Part No. 1146

Euro Cylinder -
5 Pin/Turn Key Alike
Suits 1141 Lock
Part No. 1149

Lock Options

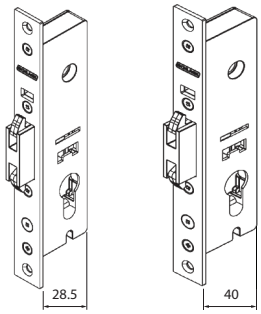
Sorrento Face Mount Single Point Lock (cylinder not included)
Part No. 1155

Sorrento Multi Point Accessory Pack
Part No. 1156

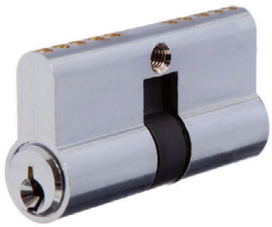
Lazy Cam Cylinder
Part No. 1157

Flush Mounting Tabs
Part No. 1159

Lock Options



Sliding Mortice Lock (No Cylinder)
(Suits 1145 - 1149 Cylinders)
Part No.
28.5mm Backset - 1113
40mm Backset - 1114



Verta Fixed
Cam Profile Cylinder
(Suits Verta Sliding Locks 1113/1114)
Part No. 1016

Verta Flat Strike
Part No. 1179

Verta Hinged Entry Kit
(No Cylinder) 30mm Back Set
Part No. 1011

Available in
Black & S/Steel

Verta Offset Back To Back
Pull Handle (PVD)
Part No. 1012

Available in
Black & S/Steel

Verta 800mm
Inline Pull Handle
Part No. 1013

Available in
Black & S/Steel

Verta Euro
Cylinder Escutcheon
Part No. 1014

Available in
Black & S/Steel

Verta Flush Pull Kit
Part No. 1015

Available in
Black & S/Steel

Furniture Options

Entrance Handle
300 x 32 Back
To Back Straight
SSS
Part No. 1001

Entrance Handle
300 x 32 Back
To Back Offset
SSS
Part No. 1002

Entrance Handle
300 x 32 Back
To Back Curved
SSS
Part No. 1003

Entrance Handle
178 x 19 Offset
SSS
Part No. 1004

Hinge Wrap
Around Type
Part No. 1030

Hinge Fast Fix
Stainless Steel
ST3
Part No. 1040

Hinge Fast Fix
Stainless Steel
ST9
Part No. 1041

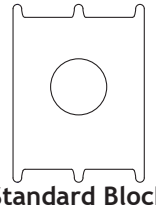
Entrance Handle Elephant
Ears Include Bolts
Part No. 1020

Floor Ferule
To suit
1066/1067
Flushbolt
Stainless Steel
Part No. 1068

Floor Mounted Door
Stop
Satin Chrome
Part No. 1059

Flushbolt
Standard 300mm
Part No. 1066

Flushbolt
Standard 600mm
Part No. 1067



Standard Block
Part No. 3000

Flushbolt Extension
Rod ONLY
600mm suits 1066
Part No. 1066-
ROD600

Flushbolt Extension
Rod ONLY
900mm suits 1066
Part No. 1066-
ROD900

Panic Bolt
Visible Fix Offset
300mm
Part No. 1056

Panic Bolt
Visible Fix 300mm
Part No. 1057

Machining

Cutting Formula: Single Door Using HV Profiles Panel

WATER RATED HINGE DOOR - INWARD (SINGLE)				
NOTE: MEASUREMENTS ARE BASED ON OVERALL FRAME SIZE (DO NOT INCLUDE SUB HEAD/SILLS)				
CODES	**DESCRIPTION**	**QUANTITY**	**SIZES**	**NOTES**
TJ301	JAMBS	2	H	
HV031	DOOR STOP FOR JAMBS	2	H - 69	***Mitred Top End / Square Cut Bottom End***
TJ307	POCKET FILLER FOR HEAD	2	45	
TJ307	POCKET FILLER FOR SILL	2	43	
TJ346	HEAD	1	H - 89	
HV031	DOOR STOP FOR HEAD	1	W - 51	***Mitred***
TJ348	SILL	1	W - 89	
SG: HV272 | DG: HV291	HINGE STILE	1	H - 82	
SG: HV312 | DG: HV291	LOCK STILE	1	H - 82	
SMALL: HV289 | LARGE: HV273	TOP RAIL	1	W - 225	***DG: HV277 (SMALL) OR DG: HV 275 (LARGE) = [W - 237]***
SMALL: HV289 | LARGE: HV273	BOTTOM RAIL	1	W - 225	
SG: HV274 | DG: HV276	RAIL BEAD	2	W - 225	***DG = W - 237***

GLASS SIZES	QUANTITY	HEIGHT	WIDTH
	1	SG SMALL RAILS = H - 232 | DG SMALL RAILS = H - 228	SG = RAIL + 20 DG = RAIL + 24
		SG LARGE RAILS = H - 292 | DG LARGE RAILS = H - 288	
		SG SMALL & LARGE RAILS = H - 262 DG SMALL & LARGE RAILS = H - 258	

WATER RATED HINGE DOOR - OUTWARD (SINGLE)				
NOTE: MEASUREMENTS ARE BASED ON OVERALL FRAME SIZE (DO NOT INCLUDE SUB HEAD/SILLS)				
CODES	**DESCRIPTION**	**QUANTITY**	**SIZES**	**NOTES**
TJ301	JAMBS	2	H	
HV031	DOOR STOP FOR JAMBS	2	H - 65	***Mitred Top End / Square Cut Bottom End***
TJ307	POCKET FILLER FOR HEAD	2	45	
TJ307	POCKET FILLER FOR SILL	2	39	
TJ346	HEAD	1	H - 89	
HV031	DOOR STOP FOR HEAD	1	H - 51	***Mitred***
TJ348	SILL	1	H - 89	
SG: HV272 | DG: HV291	HINGE STILE	1	H - 78	
SG: HV312 | DG: HV291	LOCK STILE	1	H - 78	
SMALL: HV289 | LARGE: HV273	TOP RAIL	1	W - 225	***DG: HV277 (SMALL) OR DG: HV 275 (LARGE) = [W - 237]***
SMALL: HV289 | LARGE: HV273	BOTTOM RAIL	1	W - 225	
SG: HV274 | DG: HV276	RAIL BEAD	2	W - 225	***DG = W - 237***
TJ773	SECONDARY DOOR STOP	1	W - 117	***ONLY NEEDED FOR 300Pa WATER RATING REQUIREMENTS***

GLASS SIZES	QUANTITY	HEIGHT	WIDTH
	1	SG SMALL RAILS = H - 227 | DG SMALL RAILS = H - 223	SG = RAIL + 20 DG = RAIL + 24
		SG LARGE RAILS = H - 287 | DG LARGE RAILS = H - 283	
		SG SMALL & LARGE RAILS = H - 257 DG SMALL & LARGE RAILS = H - 253	

Cutting Formula: Double Door Using HV Profiles Panel

WATER RATED HINGE DOOR - INWARD (DOUBLE)					
NOTE: MEASUREMENTS ARE BASED ON OVERALL FRAME SIZE (DO NOT INCLUDE SUB HEAD/SILLS)					
CODES	**DESCRIPTION**	**QUANTITY**	**SIZES**	**NOTES**	
TJ301	JAMBS	2	H		
HV031	DOOR STOP FOR JAMBS	2	H - 69	***Mitred Top End / Square Cut Bottom End***	
TJ307	POCKET FILLER FOR HEAD	2	43		
TJ307	POCKET FILLER FOR SILL	2	45		
TJ346	HEAD	1	W - 89		
HV031	DOOR STOP FOR HEAD	1	W - 51	***Mitred***	
TJ348	SILL	1	W - 89		
SG: HV272 | DG: HV291	HINGE STILE	1	H - 82		
SG: HV312 | DG: HV291	LOCK STILE	1	H - 82		
SMALL: HV289 | LARGE: HV273	TOP RAIL	1	(W - 365) / 2	***DG: HV277 (SMALL) OR DG: HV 275 (LARGE) = [W - 237]***	
SMALL: HV289 | LARGE: HV273	BOTTOM RAIL	1	(W - 365) / 2		
SG: HV274 | DG: HV276	RAIL BEAD	2	(W - 365) / 2		
TJ454	DOUBLE DOOR COVER	1	H - 82		
		GLASS SIZES	**QUANTITY**	**HEIGHT**	**WIDTH**
			1	SG SMALL RAILS = H - 232 | DG SMALL RAILS = H - 228	SG = RAIL + 20 DG = RAIL + 24
				SG LARGE RAILS = H - 292 | DG LARGE RAILS = H - 288	
				SG SMALL & LARGE RAILS = H - 262 DG SMALL & LARGE RAILS = H - 258	

WATER RATED HINGE DOOR - OUTWARD (DOUBLE)					
NOTE: MEASUREMENTS ARE BASED ON OVERALL FRAME SIZE (DO NOT INCLUDE SUB HEAD/SILLS)					
CODES	**DESCRIPTION**	**QUANTITY**	**SIZES**	**NOTES**	
TJ301	JAMBS	2	H		
HV031	DOOR STOP FOR JAMBS	2	H - 65	***Mitred Top End / Square Cut Bottom End***	
TJ307	POCKET FILLER FOR HEAD	2	45		
TJ307	POCKET FILLER FOR SILL	2	39		
TJ346	HEAD	1	H - 89		
HV031	DOOR STOP FOR HEAD	1	H - 51	***Mitred***	
TJ348	SILL	1	H - 89		
SG: HV272 | DG: HV291	HINGE STILE	1	H - 78		
SG: HV312 | DG: HV291	LOCK STILE	1	H - 78		
SMALL: HV289 | LARGE: HV273	TOP RAIL	1	(W - 365) / 2	***DG: HV277 (SMALL) OR DG: HV 275 (LARGE) = [W - 237]***	
SMALL: HV289 | LARGE: HV273	BOTTOM RAIL	1	(W - 365) / 2		
SG: HV274 | DG: HV276	RAIL BEAD	2	(W - 365) / 2	***DG = W - 237***	
TJ773	SECONDARY DOOR STOP	1	H - 89	***ONLY NEEDED FOR 300Pa WATER RATING REQUIREMENTS***	
TJ454	DOUBLE DOOR COVER	1	H - 78		
		GLASS SIZES	**QUANTITY**	**HEIGHT**	**WIDTH**
			1	SG SMALL RAILS = H - 227 | DG SMALL RAILS = H - 223	SG = RAIL + 20 DG = RAIL + 24
				SG LARGE RAILS = H - 287 | DG LARGE RAILS = H - 283	
				SG SMALL & LARGE RAILS = H - 257 DG SMALL & LARGE RAILS = H - 253	

Cutting Formula: Single Door
45mm MainFrame w/ TJ Panels

45MM WATER RATED HINGE DOOR - INWARD (SINGLE PANEL)				
NOTE: MEASUREMENTS ARE BASED ON OVERALL FRAME SIZE(DO NOT INCLUDE SUB HEAD/SILLS)				
CODES	**DESCRIPTION**	**QUANTITY**	**SIZES**	**NOTES**
TJ301	JAMBS	2	H	
HV031	DOOR STOP FOR JAMBS	2	H - 69	**Mitred Top End / Square Cut Bottom End**
TJ346	HEAD	1	W-100	
HV031	DOOR STOP FOR HEAD	1	W - 51	**Mitred**
TJ348	SILL	1	W-100	
SG = TJ441 / DG = TJ417	HING STILE	1	H - 87	
SG = TJ440 / DG = TJ418	LOCK STILE	1	H - 87	
SG = TJ313 / DG = TJ419	TOP RAIL	1	W - 240	
SG = TJ315 / DG = TJ420	BOTTOM RAIL	2		
SG = TJ314 / DG = TJ227	RAIL BEAD	2		

GLASS SIZES	QUANTITY	HEIGHT	WIDTH
	1	SG = H - 267 DG = H - 274	SG = RAIL+20 DG = RAIL+24

45MM WATER RATED HINGE DOOR - OUTWARD (SINGLE PANEL)				
NOTE: MEASUREMENTS ARE BASED ON OVERALL FRAME SIZE(DO NOT INCLUDE SUB HEAD/SILLS)				
CODES	**DESCRIPTION**	**QUANTITY**	**SIZES**	**NOTES**
TJ301	JAMBS	2	H	
HV031	DOOR STOP FOR JAMBS	2	H - 65	**Mitred Top End / Square Cut Bottom End**
CSG346	HEAD	1	W-100	
HV031	DOOR STOP FOR HEAD	1	W - 51	**Mitred**
TJ348	SILL	1	W-100	
SG = TJ441 / DG = TJ417	HING STILE	1	H - 83	
SG = TJ440 / DG = TJ418	LOCK STILE	1	H - 83	
SG = TJ313 / DG = TJ419	TOP RAIL	1	W - 240	
SG = TJ315 / DG = TJ420	BOTTOM RAIL	2		
SG = TJ314 / DG = TJ227	RAIL BEAD	2		

GLASS SIZES	QUANTITY	HEIGHT	WIDTH
	1	SG = H - 267 DG = H - 274	SG = RAIL+20 DG = RAIL+24

Fabrication

Cutting Formula: Inward Opening 50mm Mainframe w/ TJ Panels

45MM WATER RATED HINGE DOOR - INWARD (SINGLE PANEL)				
NOTE: MEASUREMENTS ARE BASED ON OVERALL FRAME SIZE(DO NOT INCLUDE SUB HEAD/SILLS)				
CODES	**DESCRIPTION**	**QUANTITY**	**SIZES**	**NOTES**
CSG301	JAMBS	2	H	
CSG031	DOOR STOP FOR JAMBS	2	H - 77	**Mitred Top End / Square Cut Bottom End**
CSG346	HEAD	1	W-100	
CSG031	DOOR STOP FOR HEAD	1	W - 68	**Mitred**
TJ348	SILL	1	W-100	
SG = TJ441 / DG = TJ417	HING STILE	1	H - 87	
SG = TJ440 / DG = TJ418	LOCK STILE	1	H - 87	
SG = TJ313 / DG = TJ419	TOP RAIL	1	W - 253	
SG = TJ315 / DG = TJ420	BOTTOM RAIL	2		
SG = TJ314 / DG = TJ227	RAIL BEAD	2		

GLASS SIZES	QUANTITY	HEIGHT	WIDTH
	1	SG = H - 267 DG = H - 274	SG = RAIL+20 DG = RAIL+24

45MM WATER RATED HINGE DOOR - INWARD (DOUBLE PANELS)				
NOTE: MEASUREMENTS ARE BASED ON OVERALL FRAME SIZE(DO NOT INCLUDE SUB HEAD/SILLS)				
CODES	**DESCRIPTION**	**QUANTITY**	**SIZES**	**NOTES**
CSG301	JAMBS	2	H	
CSG031	DOOR STOP FOR JAMBS	2	H - 77	**Mitred Top End / Square Cut Bottom End**
CSG346	HEAD	1	W - 100	
CSG031	DOOR STOP FOR HEAD	1	W - 68	**Mitred**
TJ348	SILL	1	W - 100	
SG = TJ441 / DG = TJ417	HING STILE	1	H - 87	
SG = TJ440 / DG = TJ418	LOCK STILE	1		
TJ454	DOUBLE DOOR COVER	1		
SG = TJ313 / DG = TJ419	TOP RAIL	1	(W-400)/2	
SG = TJ315 / DG = TJ420	BOTTOM RAIL	2		
SG = TJ314 / DG = TJ227	RAIL BEAD	2		

GLASS SIZES	QUANTITY	HEIGHT	WIDTH
	2	SG = H - 267 DG = H - 274	SG = RAIL+20 DG = RAIL+24

Cutting Formula: Outward Opening
50mm Mainframe w/ TJ Panels

45MM WATER RATED HINGE DOOR - OUTWARD (SINGLE PANEL)				
NOTE: MEASUREMENTS ARE BASED ON OVERALL FRAME SIZE(DO NOT INCLUDE SUB HEAD/SILLS)				
CODES	**DESCRIPTION**	**QUANTITY**	**SIZES**	**NOTES**
CSG301	JAMBS	2	H	
CSG031	DOOR STOP FOR JAMBS	2	H - 73	**Mitred Top End / Square Cut Bottom End**
CSG346	HEAD	1	W - 100	
CSG031	DOOR STOP FOR HEAD	1	W - 68	**Mitred**
TJ349	SILL	1	W - 100	
SG = TJ441 / DG = TJ417	HING STILE	1	H - 83	
SG = TJ440 / DG = TJ418	LOCK STILE	1	H - 83	
SG = TJ313 / DG = TJ419	TOP RAIL	1	W - 253	
SG = TJ315 / DG = TJ420	BOTTOM RAIL	1		
SG = TJ314 / DG = TJ227	RAIL BEAD	2		

GLASS SIZES	QUANTITY	HEIGHT	WIDTH
	1	SG = H - 261 DG = H - 269	SG = RAIL+20 DG = RAIL+24

45MM WATER RATED HINGE DOOR - OUTWARD (DOUBLE PANELS)				
NOTE: MEASUREMENTS ARE BASED ON OVERALL FRAME SIZE(DO NOT INCLUDE SUB HEAD/SILLS)				
CODES	**DESCRIPTION**	**QUANTITY**	**SIZES**	**NOTES**
CSG301	JAMBS	2	H	
CSG031	DOOR STOP FOR JAMBS	2	H - 73	**Mitred Top End / Square Cut Bottom End**
CSG346	HEAD	1	W - 100	
CSG031	DOOR STOP FOR HEAD	1	W - 68	**Mitred**
TJ349	SILL	1	W - 100	
SG = TJ441 / DG = TJ417	HING STILE	1	H - 83	
SG = TJ440 / DG = TJ418	LOCK STILE	1		
TJ454	DOUBLE DOOR COVER	1		
SG = TJ313 / DG = TJ419	TOP RAIL	1	(W-400)/2	
SG = TJ315 / DG = TJ420	BOTTOM RAIL	1		
SG = TJ314 / DG = TJ227	RAIL BEAD	2		

GLASS SIZES	QUANTITY	HEIGHT	WIDTH
	2	SG = H - 261 DG = H - 269	SG = RAIL+20 DG = RAIL+24

Fabrication

Cutting Formula: Inward Opening 50mm Mainframe w/ HV Panels

45MM WATER RATED HINGE DOOR - INWARD (SINGLE PANEL)				
NOTE: MEASUREMENTS ARE BASED ON OVERALL FRAME SIZE(DO NOT INCLUDE SUB HEAD/SILLS)				
CODES	**DESCRIPTION**	**QUANTITY**	**SIZES**	**NOTES**
CSG301	JAMBS	2	H	
CSG031	DOOR STOP FOR JAMBS	2	H - 77	**Mitred Top End / Square Cut Bottom End**
CSG346	HEAD	1	W-100	
CSG031	DOOR STOP FOR HEAD	1	W - 68	**Mitred**
TJ348	SILL	1	W-100	
SG = HV272, DG = HV291	HING STILE	1	H - 87	
SG = HV312, DG = HV291	LOCK STILE	1	H - 87	
HV289 (SMALL) OR HV273 (LARGE)	TOP RAIL	1	W - 246	**DG: HV277 (SMALL) OR HV275 (LARGE) = W-249**
HV289 (SMALL) OR HV273 (LARGE)	BOTTOM RAIL	2		**DG: HV277 (SMALL) OR HV275 (LARGE) = W-249**
SG = HV274, DG = HV276	RAIL BEAD	2		**DG = W-249**

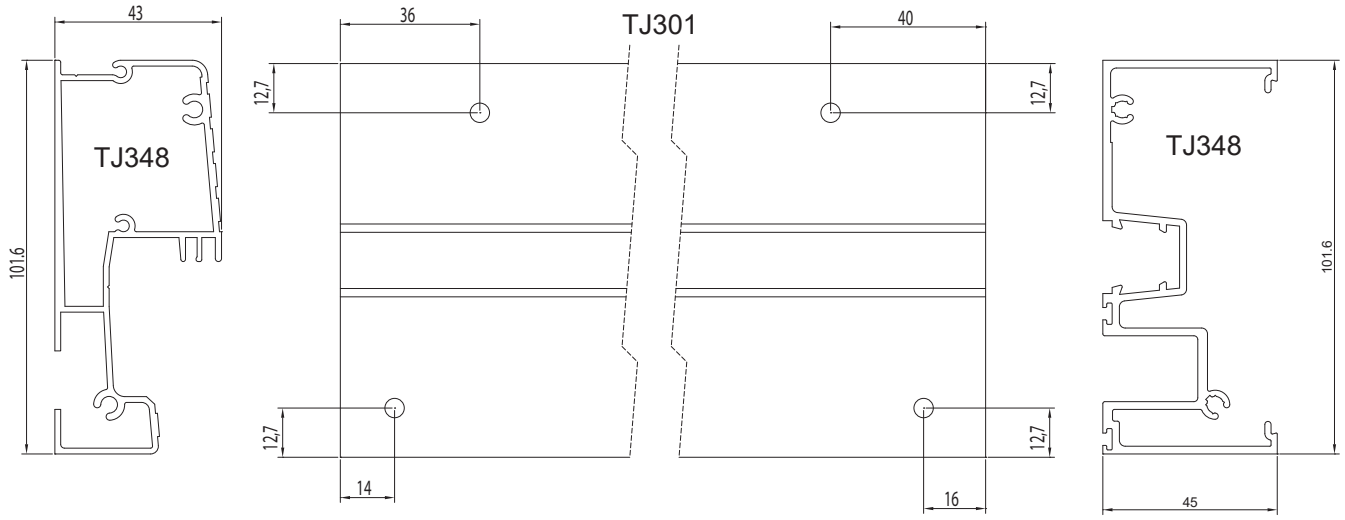
GLASS SIZES	QUANTITY	HEIGHT	WIDTH
	1	SG Small Rails = H-237	SG = RAIL+20 DG = RAIL+24
		DG Small Rails = H-233	
		SG Large Rails = H-297	
		DG Large Rails = H-293	
		SG Small AND Large Rail = H-267	
		DG Small AND Large Rail = H-263	

45MM WATER RATED HINGE DOOR - OUTWARD (SINGLE PANEL)				
NOTE: MEASUREMENTS ARE BASED ON OVERALL FRAME SIZE(DO NOT INCLUDE SUB HEAD/SILLS)				
CODES	**DESCRIPTION**	**QUANTITY**	**SIZES**	**NOTES**
CSG301	JAMBS	2	H	
CSG031	DOOR STOP FOR JAMBS	2	H - 73	**Mitred Top End / Square Cut Bottom End**
CSG346	HEAD	1	W-100	
CSG031	DOOR STOP FOR HEAD	1	W - 68	**Mitred**
TJ349	SILL	1	W-100	
SG = HV272, DG = HV291	HING STILE	1	H - 83	
SG = HV312, DG = HV291	LOCK STILE	1	H - 83	
HV289 (SMALL) OR HV273 (LARGE)	TOP RAIL	1	W - 246	**DG: HV277 (SMALL) OR HV275 (LARGE) = W-249**
HV289 (SMALL) OR HV273 (LARGE)	BOTTOM RAIL	1		**DG: HV277 (SMALL) OR HV275 (LARGE) = W-249**
SG = HV274, DG = HV276	RAIL BEAD	2		**DG = W-237**

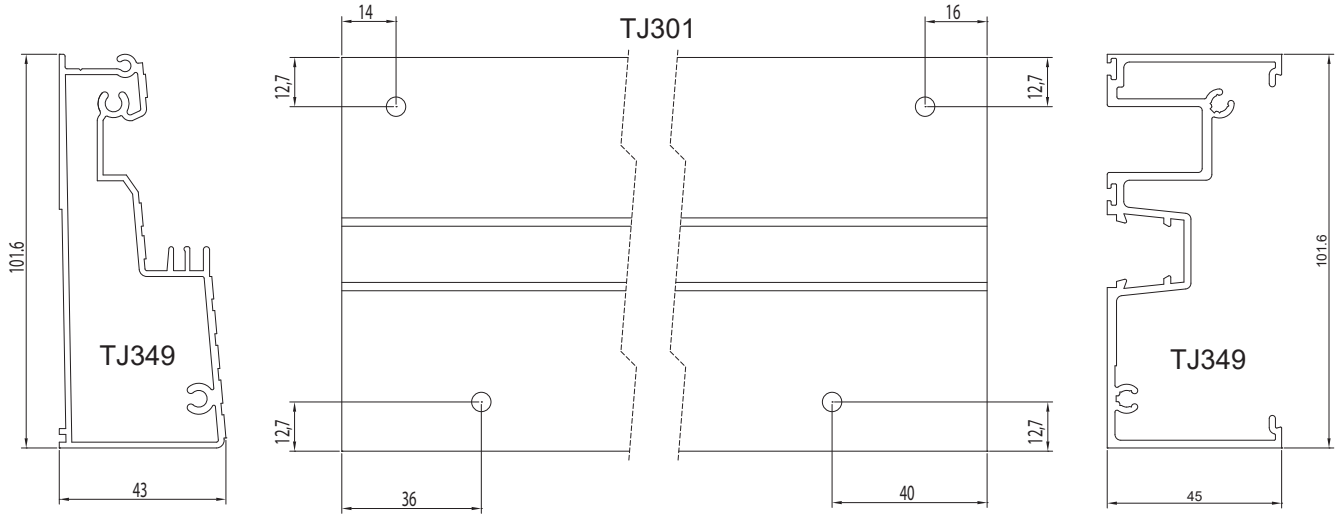
GLASS SIZES	QUANTITY	HEIGHT	WIDTH
	1	SG Small Rails = H-237	SG = RAIL+20 DG = RAIL+24
		DG Small Rails = H-233	
		SG Large Rails = H-297	
		DG Large Rails = H-293	
		SG Small AND Large Rail = H-267	
		DG Small AND Large Rail = H-263	

Machining Details: Mainframe

Inward Opening - Machining Detail

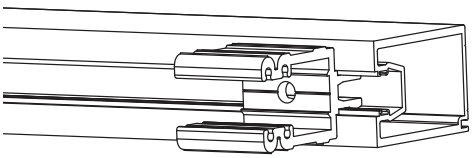


Outward Opening - Machining Detail

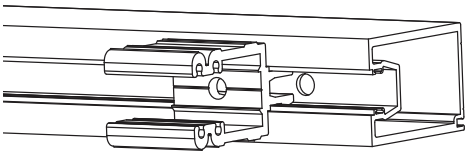


Machining Details: Panel

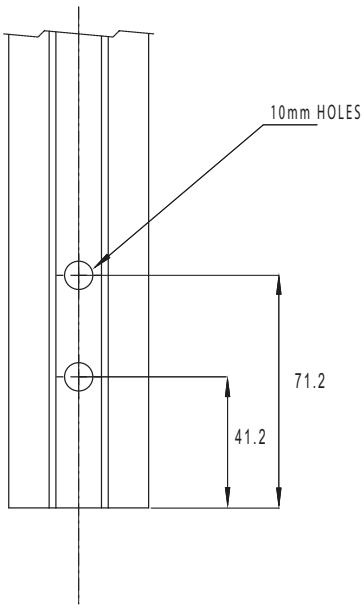
1/ Insert Spigot into Stile and secure with supplied bolt and washers.



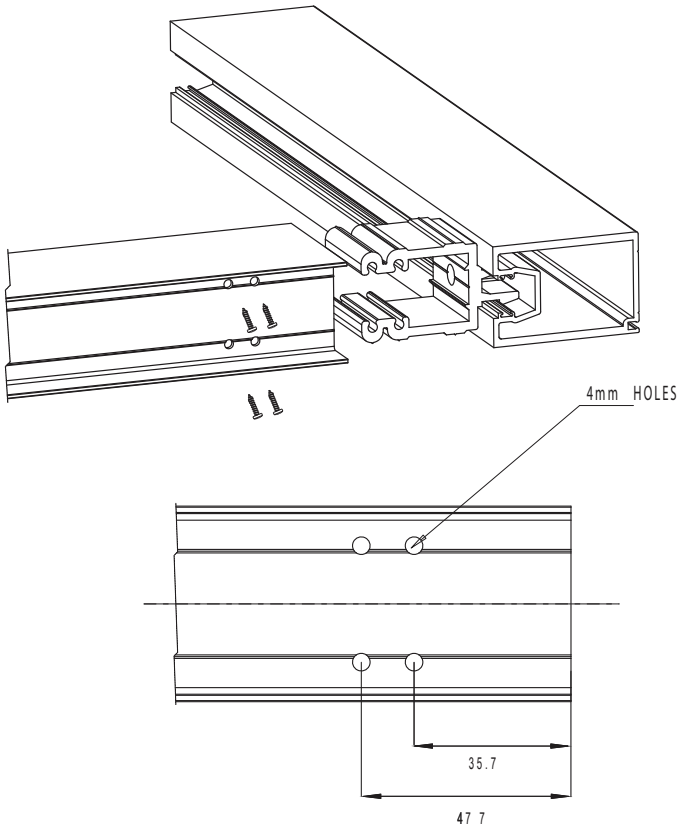
First hole for HV289 Small Rail

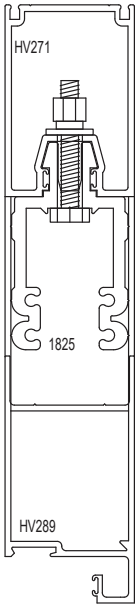


Second hole for HV273 Large Rail



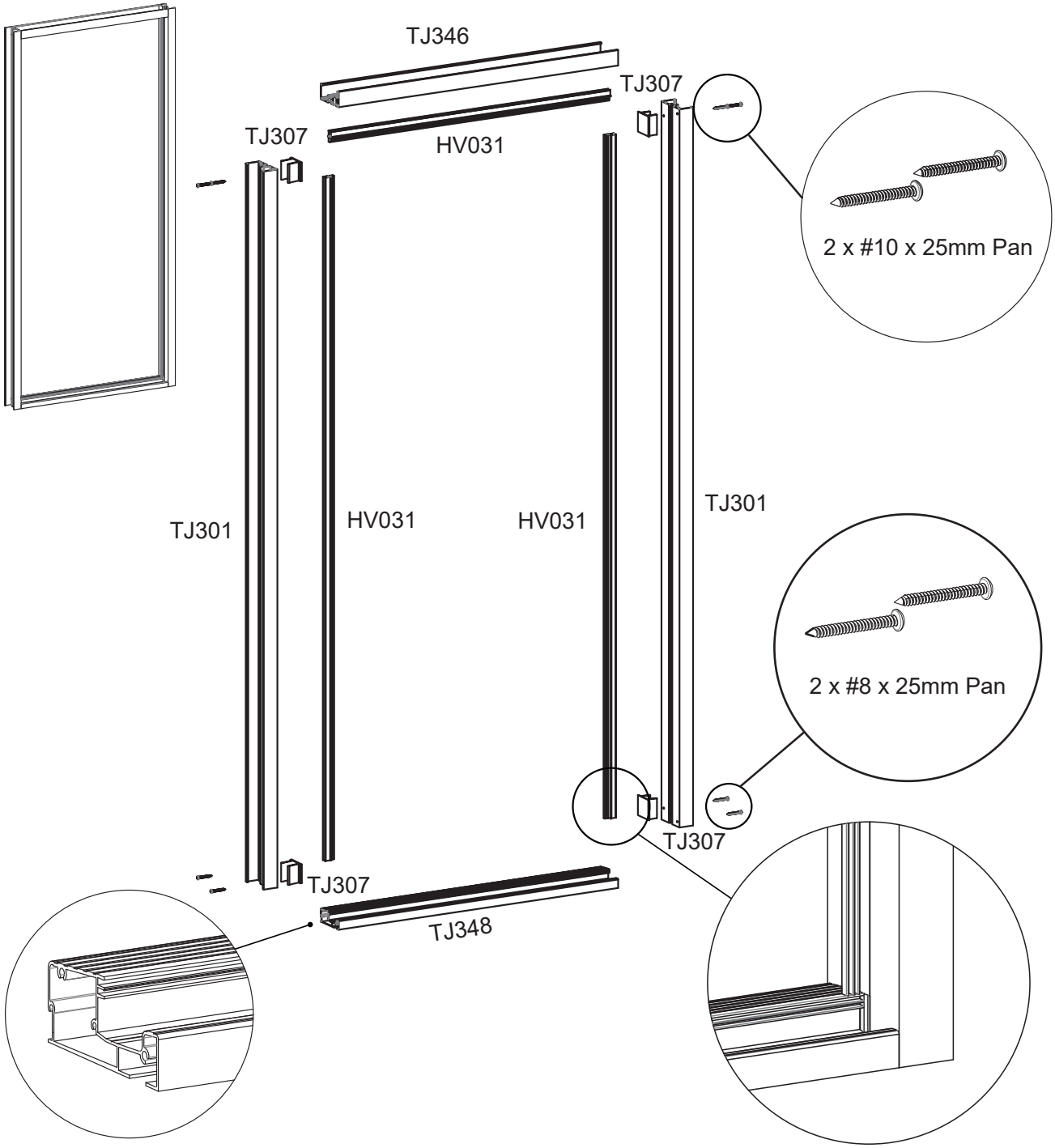
2/ Fix Spigot into rail with 4x screws





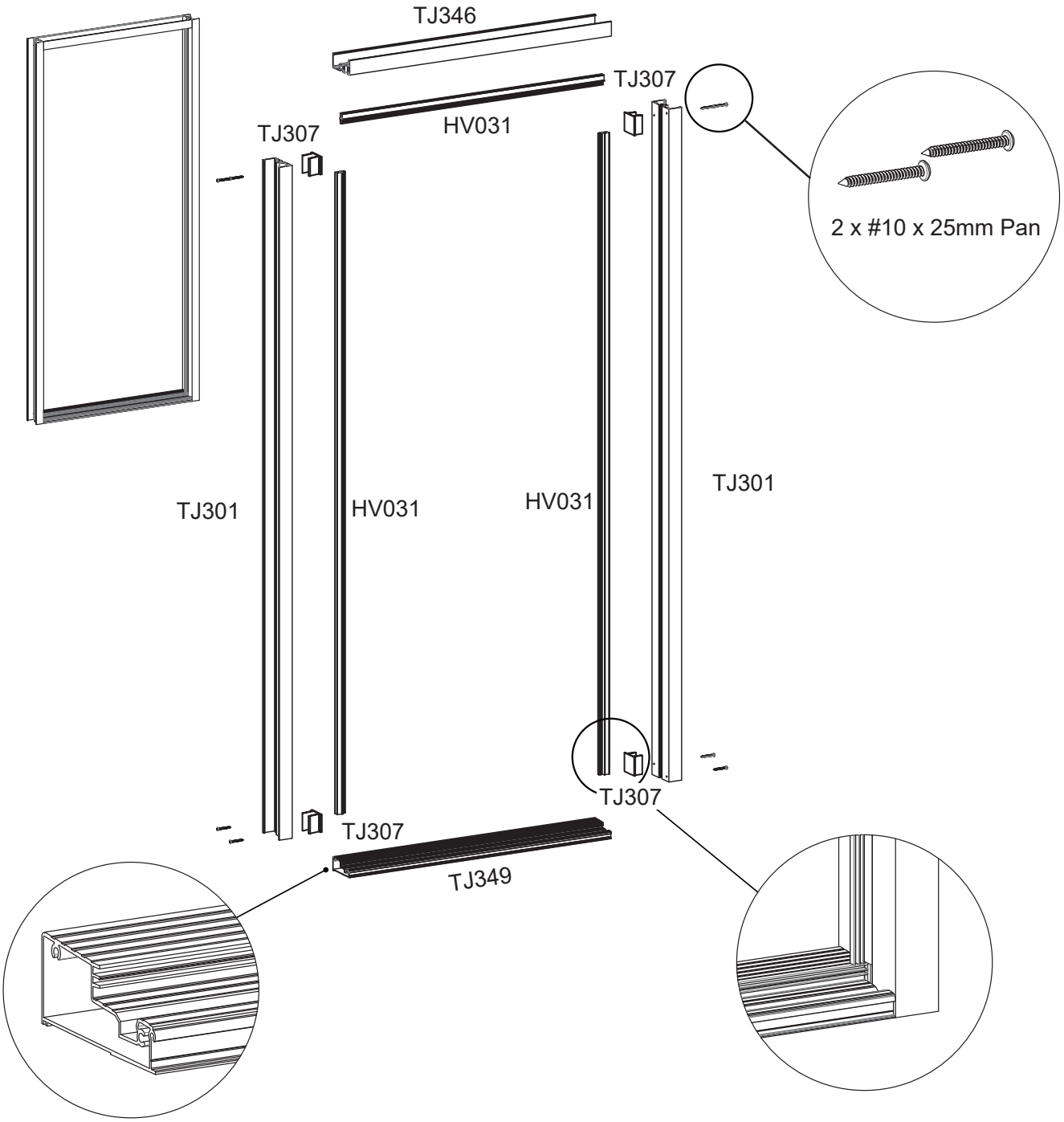
Assembly

Frame Assembly - Inward Opening (Centre Glazed)



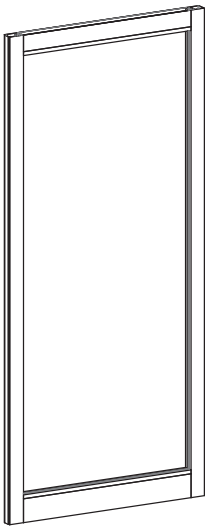
NOTES:
Engineering, manufacture and installation must meet requirements of AS 2047-2048, AS/NZS 1170 and AS/NZS 1664. Glazing selected must meet requirements of AS 1288. Size limitations are governed by design intent, glass selection, and local wind load requirements. An Engineer should be consulted to ensure selected framing and installation meets the requirements as set out by the relevant Australian Standards.
N.B.
- For frames, designs, and configurations outside the tested scope, an engineer should be consulted.
- All raw joints need to be sealed with small joint sealer or foam tab option.

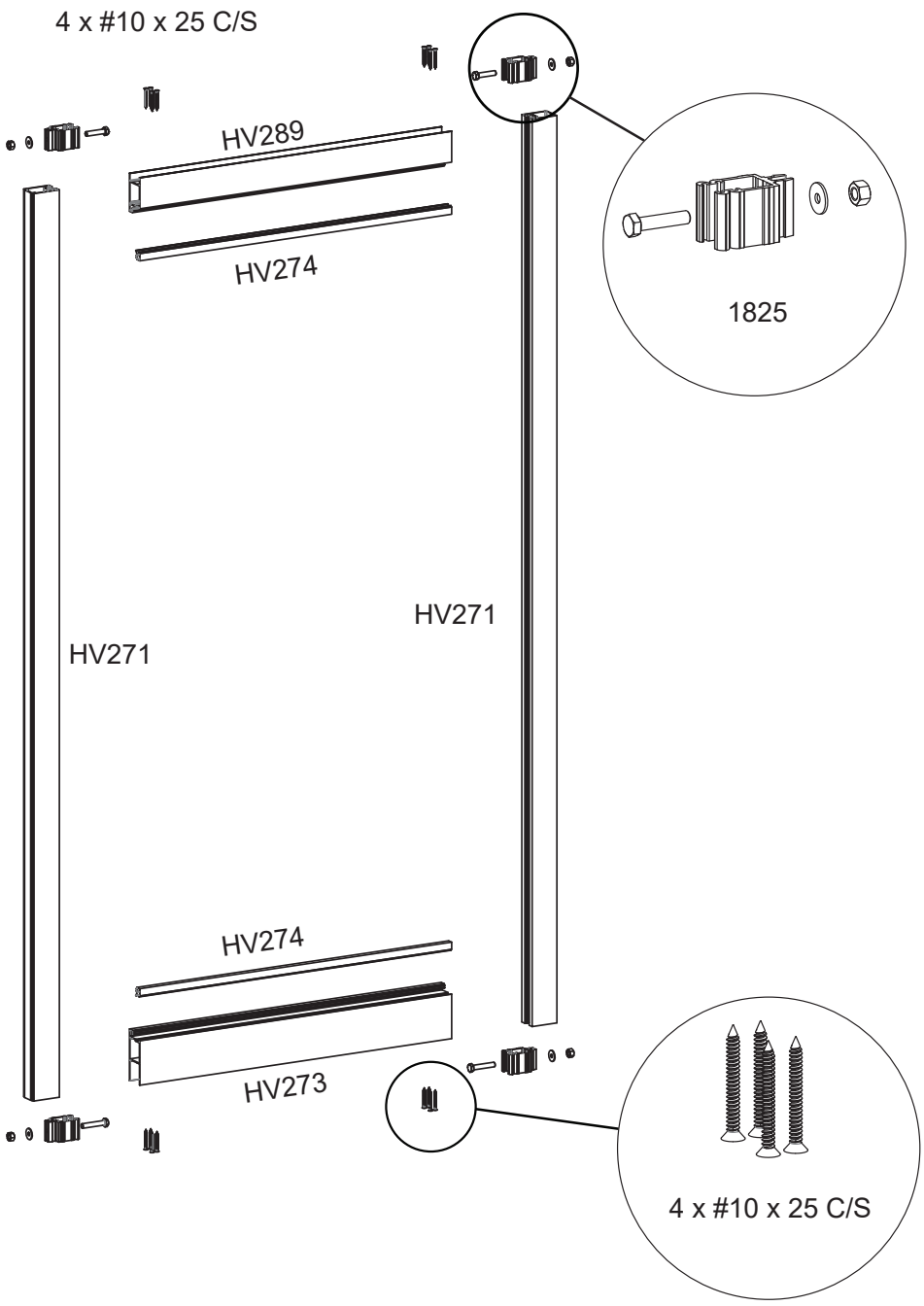
Frame Assembly - Outward Opening (Centre Glazed)



NOTES:
Engineering, manufacture and installation must meet requirements of AS 2047-2048, AS/NZS 1170 and AS/NZS 1664. Glazing selected must meet requirements of AS 1288. Size limitations are governed by design intent, glass selection, and local wind load requirements. An Engineer should be consulted to ensure selected framing and installation meets the requirements as set out by the relevant Australian Standards.
N.B.
- For frames, designs, and configurations outside the tested scope, an engineer should be consulted.
- All raw joints need to be sealed with small joint sealer or foam tab option.

HV Flush Face Panel Assembly





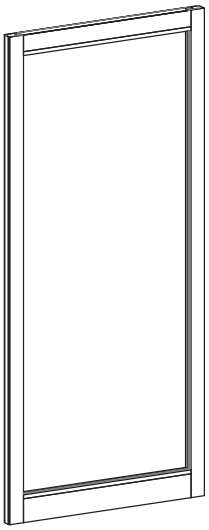
NOTES:

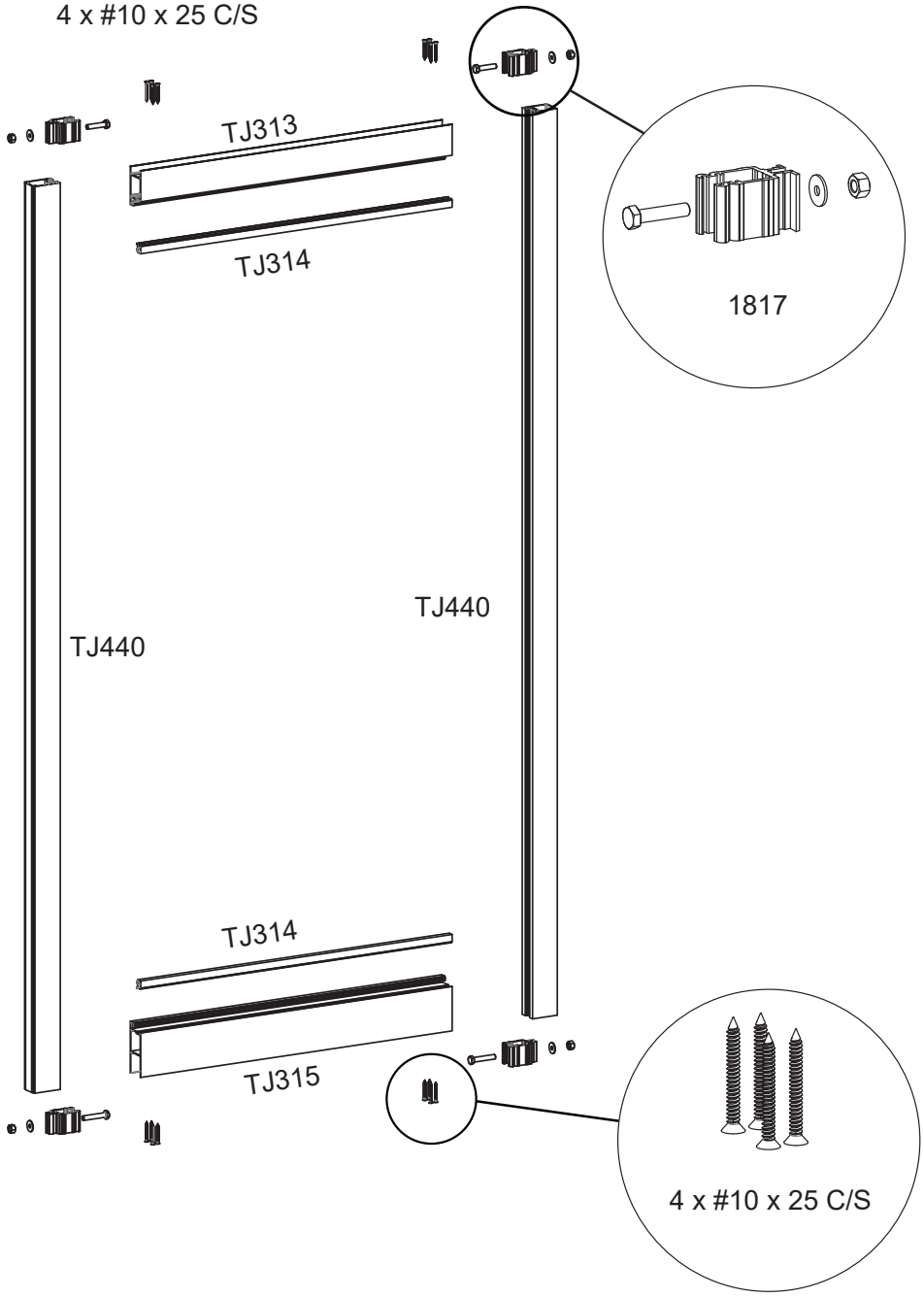
Double glazed options available.

Spigot saddle is available (1829) to replace nut & washer

NOTES:
Engineering, manufacture and installation must meet requirements of AS 2047-2048, AS/NZS 1170 and AS/NZS 1664. Glazing selected must meet requirements of AS 1288. Size limitations are governed by design intent, glass selection, and local wind load requirements. An Engineer should be consulted to ensure selected framing and installation meets the requirements as set out by the relevant Australian Standards.
N.B.
- For frames, designs, and configurations outside the tested scope, an engineer should be consulted.
- All raw joints need to be sealed with small joint sealer or foam tab option.

TJ Panel Assembly





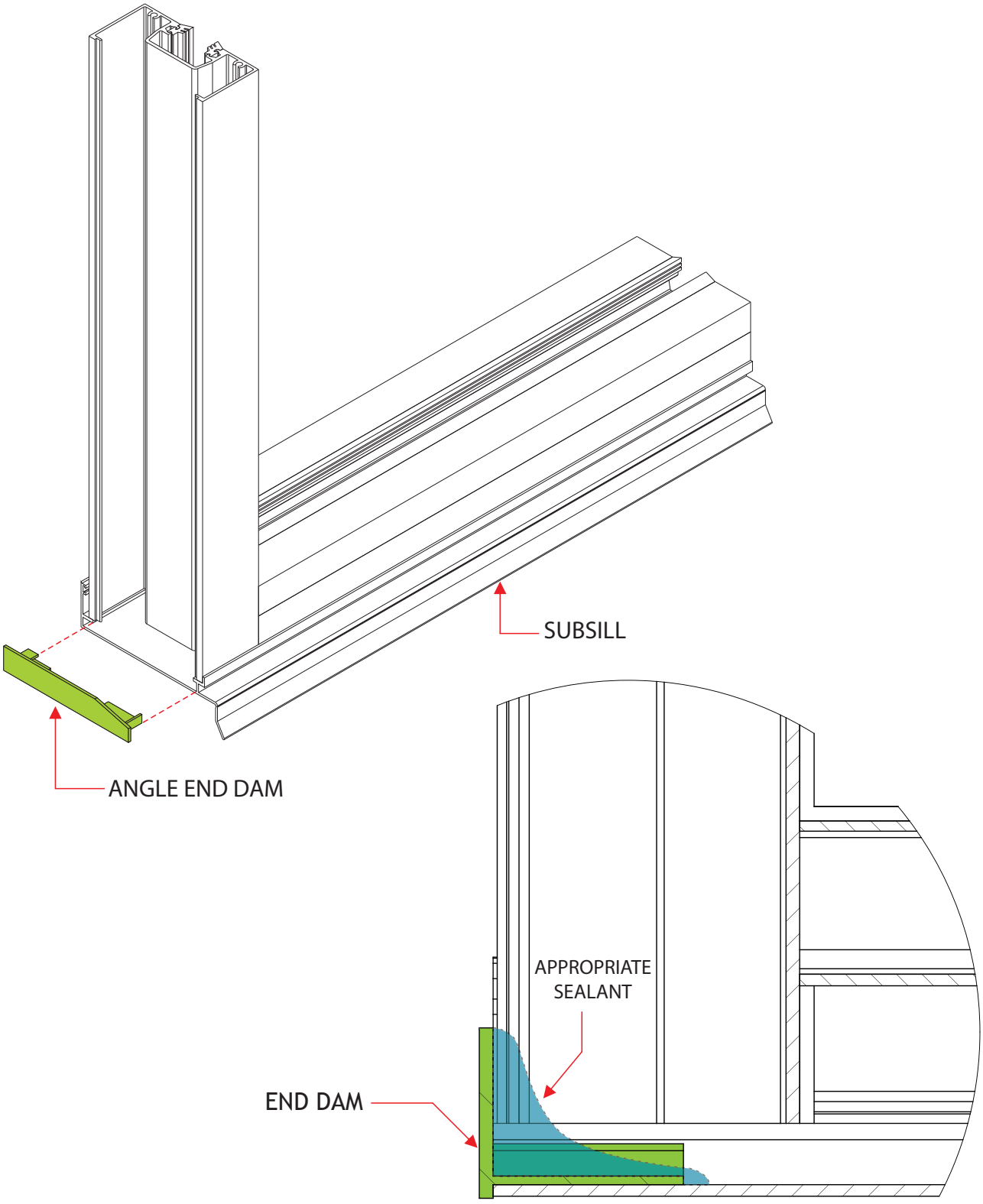
NOTES:

Double glazed options available.

Spigot saddle is available (1829) to replace nut & washer

NOTES:
Engineering, manufacture and installation must meet requirements of AS 2047-2048, AS/NZS 1170 and AS/NZS 1664. Glazing selected must meet requirements of AS 1288. Size limitations are governed by design intent, glass selection, and local wind load requirements. An Engineer should be consulted to ensure selected framing and installation meets the requirements as set out by the relevant Australian Standards.
N.B.
- For frames, designs, and configurations outside the tested scope, an engineer should be consulted.
- All raw joints need to be sealed with small joint sealer or foam tab option.

Subsill End-Dam Installation

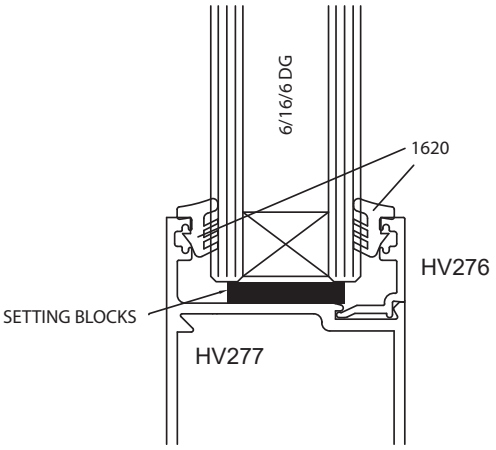


Glazing

Glass & Rubber Combinations

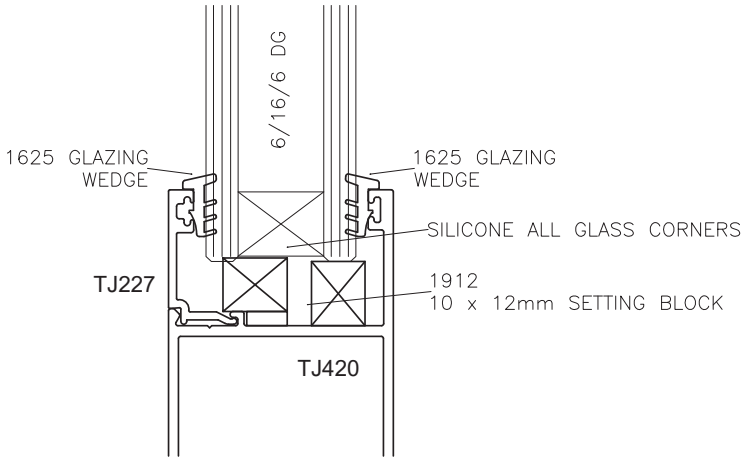
45MM FLUSH FACE HV PANEL DOOR

GLASS THICKNESS	WEDGE REQUIRED	POCKET SIZE
6mm	1620 – 1620 OR 1620 – 1684	14.5mm
8mm	1625 – 1625 OR 1630 – 1684	
10mm	1630 – 1630	
20mm	1623 – 1623	35.1mm
22mm	1933 – 1933	
24mm	1615 – 1623	
26mm	1615 – 1615 OR 1615 – 1684	
28mm	1620 – 1620 OR 1620 – 1684	



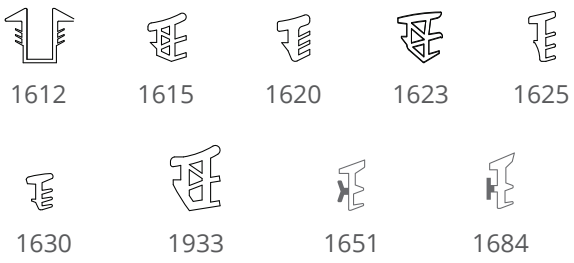
45MM STANDARD DOOR - SG
45MM OPEN POCKET DOOR - SG

GLASS THICKNESS	WEDGE REQUIRED	POCKET SIZE
6mm	1620 – 1620	14.5mm
8mm	1625 – 1625 OR 1620 – 1630	
10mm	1630 – 1630	



45MM OPEN POCKET DOOR - DG

GLASS THICKNESS	WEDGE REQUIRED	POCKET SIZE
20mm	1933 – 1933 OR 1615 – 1623	33.2mm
22mm	1615 – 1933 OR 1620 – 1623 OR 1623 – 1684	
24mm	1615 – 1615 OR 1615 – 1684	
26mm	1620 – 1620 OR 1625 – 1684	
28mm	1625 – 1625	



NOT TO SCALE

Energy Ratings Definitions

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

Definitions

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

U-Value (U_w)

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

UW is the value for the whole window and because of it's importance is usually abbreviated to U.
U_c is the value at the centre of glass.
U_f is the value for the frame.

Solar Heat Gain Coefficient ($SHGC_w$)

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

Visible Transmittance (T_{vw})

Visible transmittance measures how much light comes in through a product. It is an optical property that indicates the amount of visible light transmitted. T_{vw} is expressed as a number between 0 and 1. The higher the number, the more light is transmitted.

Energy Ratings

Single Glazed			
Window ID	**Glazing**	**Uw**	**SHGC**
DAR_059_01 A	638ComPlsGy	4.696	0.36
DAR_059_02 A	638ComPlsNtl	4.712	0.37
DAR_059_03 A	6mmClr	6.125	0.58
DAR_059_04 A	6mmGy	6.126	0.42
DAR_059_05 A	6EnTech	4.716	0.50
DAR_059_06 A	6EnTechGy	4.752	0.34
DAR_059_07 A	6SolTech	4.718	0.39
DAR_059_08 A	6SolTechGy	4.7422	0.27
DAR_059_09 A	6mmEVanClr	4.833	0.46
DAR_059_10 A	6mmEVanGy	4.832	0.30

Double Glazed			
Window ID	**Glazing**	**Uw**	**SHGC**
DAR_060_01 A	6Clr-12Ar-6Clr	4.128	0.50
DAR_060_02 A	6Gy-12Ar-6Clr	4.128	0.33
DAR_060_03 A	6EVanClr-12Ar-6Clr	3.645	0.40
DAR_060_04 A	6EVanGy-12Ar-6Clr	3.645	0.25
DAR_060_05 A	6EnTech-12Ar-6Clr	3.581	0.44
DAR_060_06 A	6EnTechGy-12Ar-6Clr	3.605	0.29
DAR_060_07 A	6SolTech-12Ar-6Clr	3.588	0.33
DAR_060_08 A	6SolTechGy-12Ar-6Clr	3.6	0.22
DAR_060_09 A	6PerformTech-12Ar-6Clr	3.406	0.25
DAR_060_10 A	6PerformTech-12Ar-6SupGy	3.406	0.23

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

NOTES

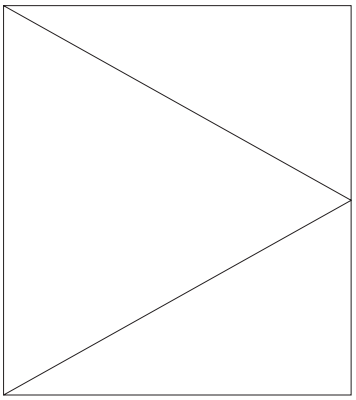
1. U is the whole window U-Value
2. SHGC is the whole window solar heat gain coefficient
3. Tvw is the whole window visible light transmittance
4. Percentage improvement figures are compared with using base-case Generic Window 1 (3mm clear in standard aluminium frame)
5. A negative percentage improvement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

Test Results

Structural Test Report:
Inward Opening

LABORATORY TEST RESULTS: 45mm Water Rated Hinged Door (Inwards Opening)

The following data was obtained from the results of the tests on the Darley 45mm Water Rated Hinged Door (Inwards Opening) as performed in the Azuma Testing Laboratory (NATA Accredited).



Test Report No. : AZT0569.18
Date: 13/11/2018

Test Size: 2439mm H x 1053mm W
Subsill Used: No

Test: Deflection Test
Results: The test unit satisfied the requirement of AS 2047.1 in both positive and negative deflection at the nominated design pressure of 1500 Pa.

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

- 0.72 L/s.m^2 @75Pa Positive
- 0.96 L/s.m^2 @75Pa Negative

Test: Operating Force
Results: The test unit is not required to satisfy the operating force requirement of AS 2047.

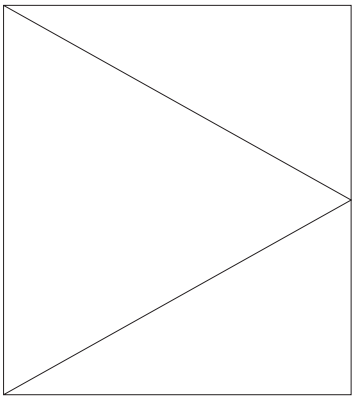
Test: Water Penetration
Results: The test unit satisfied the requirement of AS 2047 in positive pressure at the maximum pressure of 200Pa.

Test: Ultimate Strength Test
Results: The test unit satisfied the requirement of AS 2047 at the maximum pressure of 3000Pa Positive and Negative.

Structural Test Report:
Outward Opening

LABORATORY TEST RESULTS: 45mm Water Rated Hinged Door (Outwards Opening)

The following data was obtained from the results of the tests on the Darley 45mm Water Rated Hinged Door (Outwards Opening) as performed in the Azuma Testing Laboratory (NATA Accredited).



Test Report No. : AZT0549.18
Date: 12/11/2018

Test Size: 2439mm H x 1053mm W
Subsill Used: No

Test: Deflection Test
Results: The test unit satisfied the requirement of AS 2047.1 in both positive and negative deflection at the nominated design pressure of 1500 Pa.

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

- 0.59 L/s.m^2 @75Pa Positive
- 0.59 L/s.m^2 @75Pa Negative

Test: Operating Force
Results: The test unit is not required to satisfy the operating force requirement of AS 2047.

Test: Water Penetration
Results: The test unit satisfied the requirement of AS 2047 in positive pressure at the maximum pressure of 300Pa.

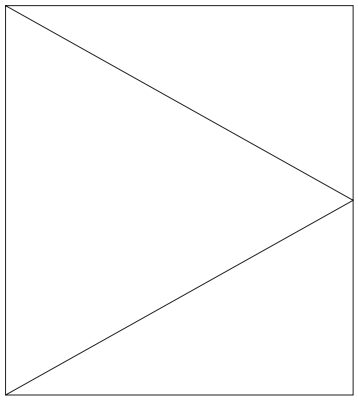
Test: Ultimate Strength Test
Results: The test unit satisfied the requirement of AS 2047 at the maximum pressure of 3000Pa Positive and Negative.

Test Results

Structural Test Report:
Outward Opening

LABORATORY TEST RESULTS: 45mm Water Rated Hinged Door With 114mm Stiles (Outwards Opening) : 4 Point Lock

The following data was obtained from the results of the tests on the Darley 45mm Water Rated Hinged Door (Inwards Opening) as performed in the Azuma Testing Laboratory (NATA Accredited).



Test Report No. : AZT0142.22
Date: 5/5/2022

Test Size: 2700mm H x 1100mm W
Subsill Used: No

Test: Deflection Test
Results: The test unit satisfied the requirement of AS 2047.1 in both positive and negative deflection at the nominated design pressure of 1500Pa positive and 1400Pa negative.

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

- 0.33 L/s.m^2 @75Pa Positive
- 0.90 L/s.m^2 @75Pa Negative

Test: Operating Force
Results: The test unit is not required to satisfy the operating force requirement of AS 2047.

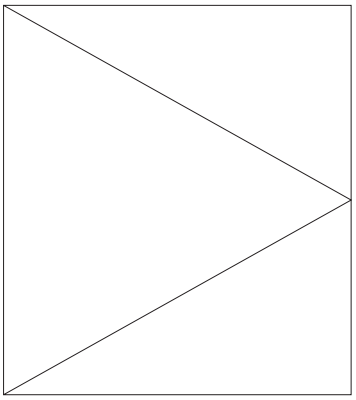
Test: Water Penetration
Results: The test unit satisfied the requirement of AS 2047 in positive pressure at the maximum pressure of 300Pa.

Test: Ultimate Strength Test
Results: The test unit satisfied the requirement of AS 2047 at the maximum pressure of 2700Pa Positive and 2600Pa Negative.

Structural Test Report:
Outward Opening

LABORATORY TEST RESULTS: 45mm Water Rated Hinged Door With 114mm Stiles (Outwards Opening) : 2 Point Lock

The following data was obtained from the results of the tests on the Darley 45mm Water Rated Hinged Door (Outwards Opening) as performed in the Azuma Testing Laboratory (NATA Accredited).



Test Report No. : AZT0143.22
Date: 5/5/2022

Test Size: 2700mm H x 1100mm W
Subsill Used: No

Test: Deflection Test
Results: The test unit satisfied the requirement of AS 2047.1 in both positive and negative deflection at the nominated design pressure of 1500Pa (positive) and 1000Pa (negative)

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

- 0.38 L/s.m^2 @75Pa Positive
- 0.60 L/s.m^2 @75Pa Negative

Test: Operating Force
Results: The test unit is not required to satisfy the operating force requirement of AS 2047.

Test: Water Penetration
Results: The test unit satisfied the requirement of AS 2047 in positive pressure at the maximum pressure of 300Pa.

Test: Ultimate Strength Test
Results: The test unit satisfied the requirement of AS 2047 at the maximum pressure of 2000Pa Positive and 1800Pa Negative.

Acoustic Performance

LABORATORY TEST RESULTS: 45mm Water Rated Hinge Door

Tested Rw value of 34; see results below

Test Report No. : DARWRHDA001
Date: 08/03/2019
Glass Type: 12.5mm Hush Lam
Acoustic Rating: 34Rw

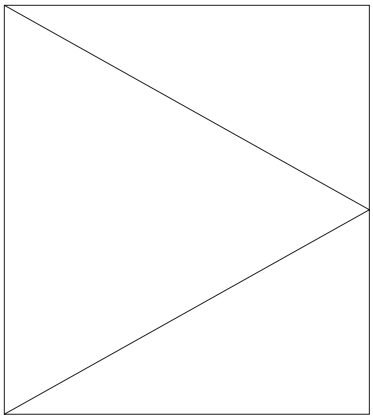
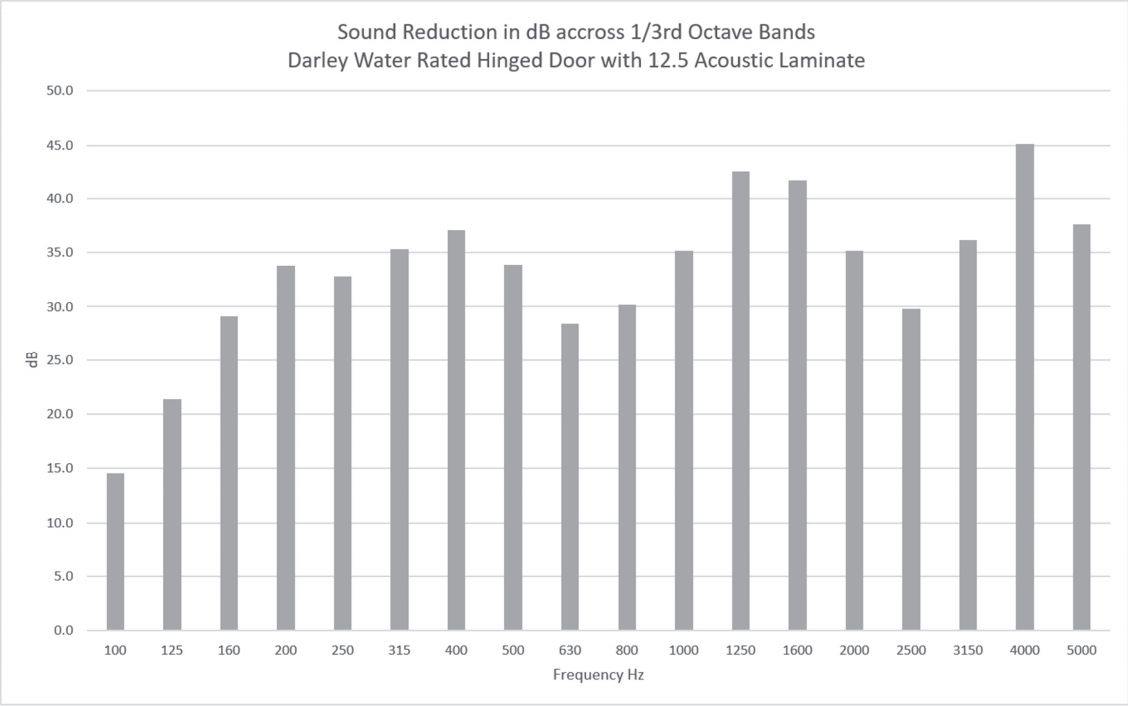


Table 1 - Sound Reduction across 1/3rd Octave bands Darley Water Rated Hinged Door with 12.5 Acoustic Laminate	
Frequency 1/3rd Octave Bands Hz	Sound Reduction dB
100	14.6
125	21.4
160	29.1
200	33.8
250	32.8
315	35.3
400	37.1
500	33.9
630	28.4
800	30.2
1000	35.2
1250	42.6
1600	41.7
2000	35.2
2500	29.8
3150	36.2
4000	45.1
5000	37.6



BAL Fire Rating

Bushfire attack levels achievable via test report no. FRT210417

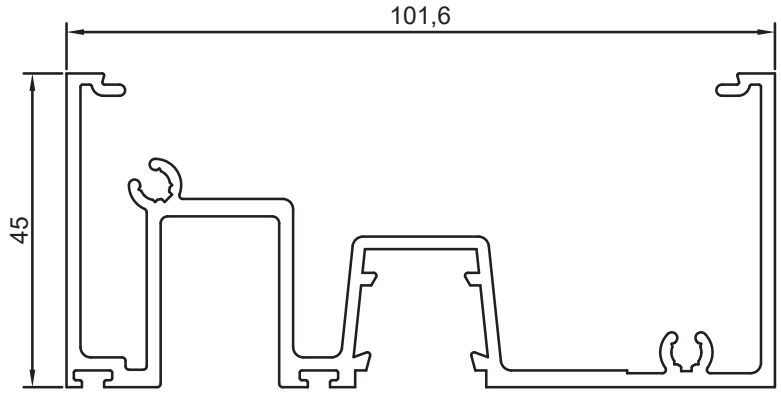
Bushfire Attack Level	Description of Predicted Bushfire Attack and Levels of Exposure	
BAL-Low	There is insufficient risk to warrant specific construction requirements	✓
BAL-12.5	Ember attack.	✓
BAL-19	Increasing levels of ember attack and burning debris ignited by windborne embers together with increasing 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.	×

Requirements Above Standard System
• 6mm toughened glass • FIre rated glazing rubber

For any rating below BAL40, the above conforms. Alternatively, you may choose to follow a ‘Deemed to Satisfy’ (DTS) checklist.

Section Profiles

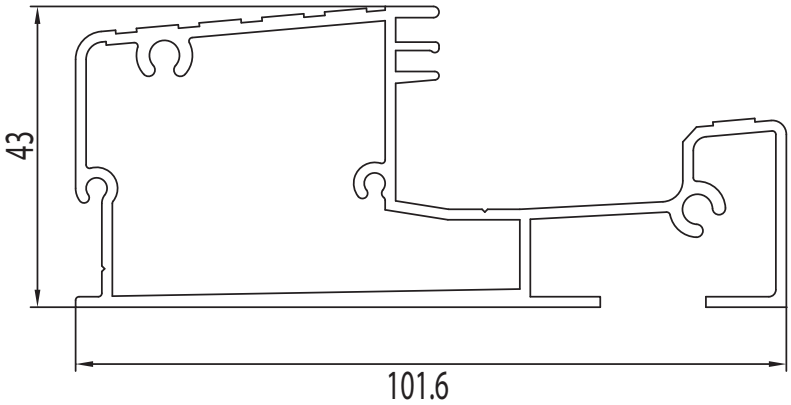
Mainframe Profiles



TJ346
Head

I_{xx} = 130.89 x 10^3 mm^4
I_{yy} = 814.22 x 10^3 mm^4

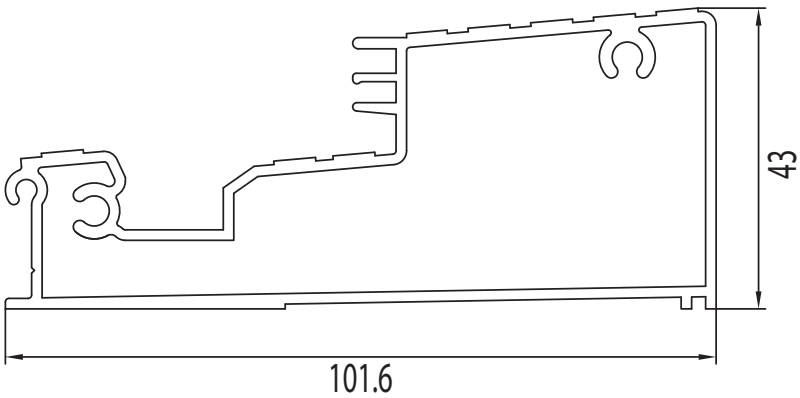
A.P. = 648 mm
P.P. = 320 mm



TJ348
Inward Opening Sill

I_{xx} = 121.19 x 10^3 mm^4
I_{yy} = 558.27 x 10^3 mm^4

A.P. = 468 mm
P.P. = 258 mm



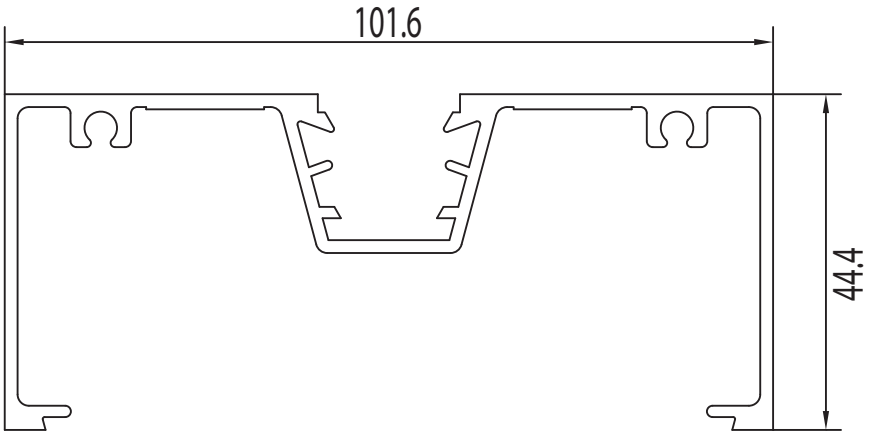
TJ349
Outward Opening Sill

I_{xx} = 106.79 x 10^3 mm^4
I_{yy} = 558.87 x 10^3 mm^4

A.P. = 359 mm
P.P. = 253 mm

Appendix

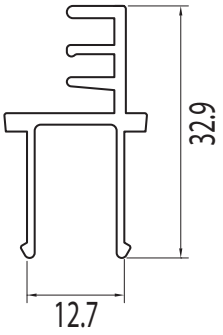
Mainframe Profiles



TJ301
Standard Main Frame

I_{xx} = 98.30 x 10^3 mm^4
I_{yy} = 678.17 x 10^3 mm^4

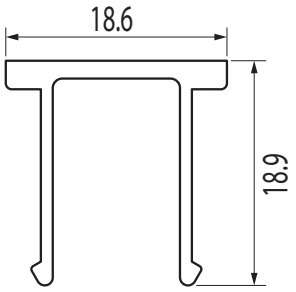
A.P. = 541 mm
P.P. = 182 mm



HV031
Snap-In Door Stop

I_{xx} = 8.72 x 10^3 mm^4
I_{yy} = 3.01 x 10^3 mm^4

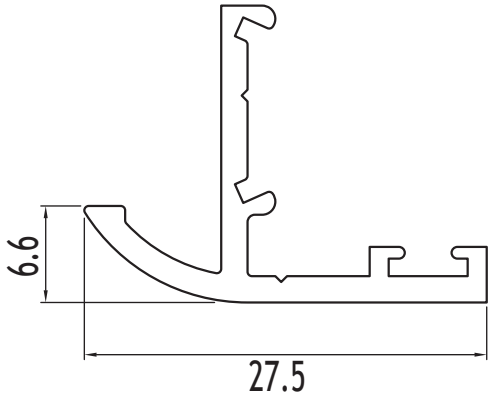
A.P. = 173 mm
P.P. = 100 mm



TJ307
Flush Pocket Filler

I_{xx} = 2.576 x 10^3 mm^4
I_{yy} = 2.363 x 10^3 mm^4

A.P. = 109 mm
P.P. = 100 mm

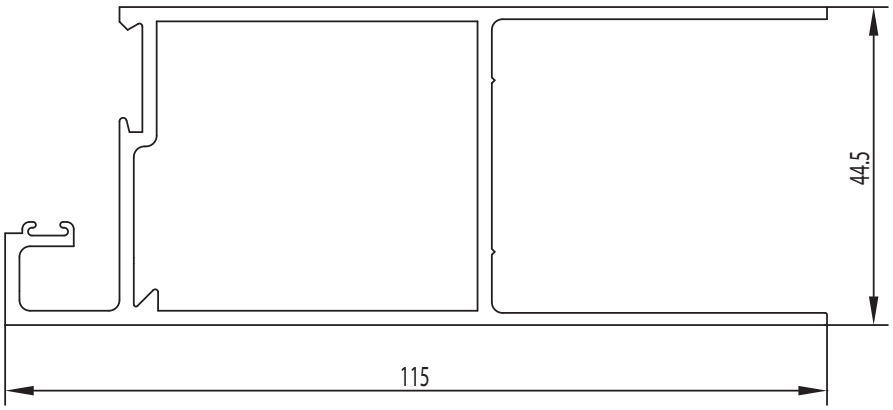


TJ454
Double Door Cover

I_{xx} = 3.166 x 10^3 mm^4
I_{yy} = 4.442 x 10^3 mm^4

A.P. = 120 mm
P.P. = 100 mm

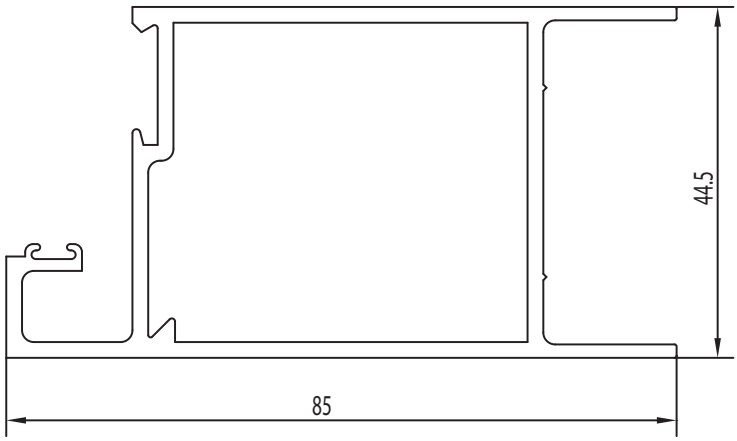
Panel Profiles



HV273
Large Rail - Single Glazed

I_{xx} = 212.17 x 10^3 mm^4
I_{yy} = 630.50 x 10^3 mm^4

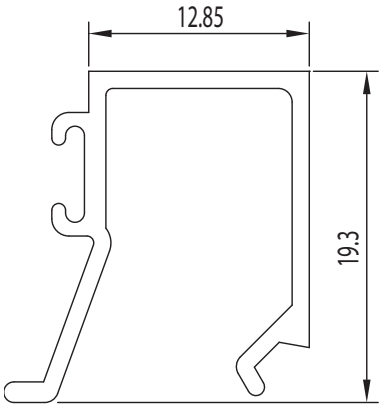
A.P. = 466 mm
P.P. = 227 mm



HV289
Small Rail - Single Glazed

I_{xx} = 164.93 x 10^3 mm^4
I_{yy} = 319.58 x 10^3 mm^4

A.P. = 345 mm
P.P. = 167 mm

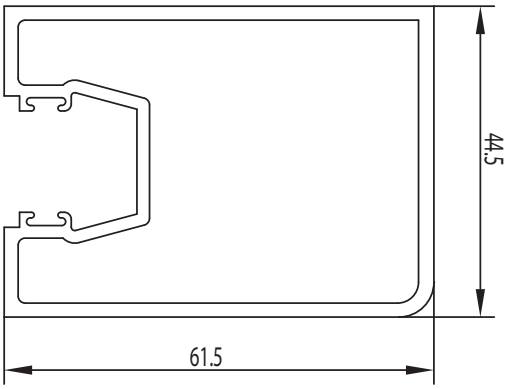


HV274
Door Bead - Single Glazed

I_{xx} = 2.40 x 10^3 mm^4
I_{yy} = 2.13 x 10^3 mm^4

A.P. = 118 mm
P.P. = 100 mm

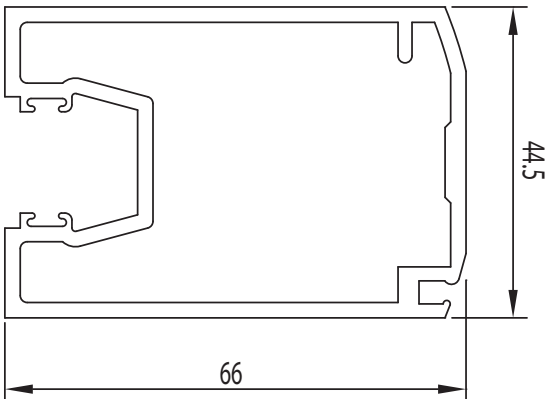
Panel Profiles



HV272
Hinge Stile - Single Glazed

I_{xx} = 139.63 x 10^3 mm^4
I_{yy} = 228.54 x 10^3 mm^4

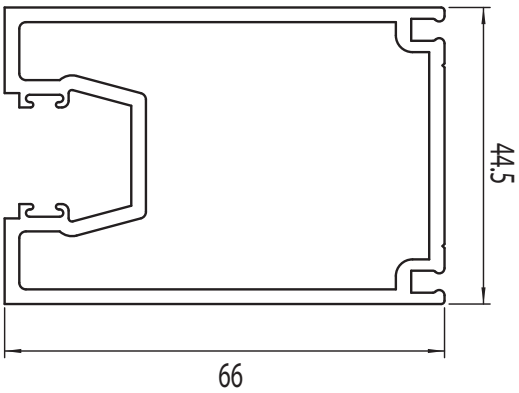
A.P. = 266 mm
P.P. = 194 mm



HV312
Lock Stile - Single Glazed

I_{xx} = 165.06 x 10^3 mm^4
I_{yy} = 308.22 x 10^3 mm^4

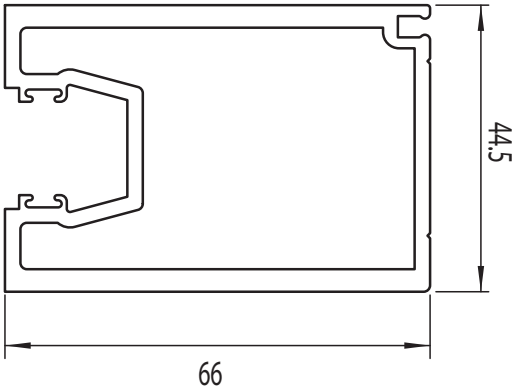
A.P. = 283 mm
P.P. = 208 mm



HV271
Door Stile - Single Glazed

I_{xx} = 162.64 x 10^3 mm^4
I_{yy} = 276.91 x 10^3 mm^4

A.P. = 313 mm
P.P. = 160 mm

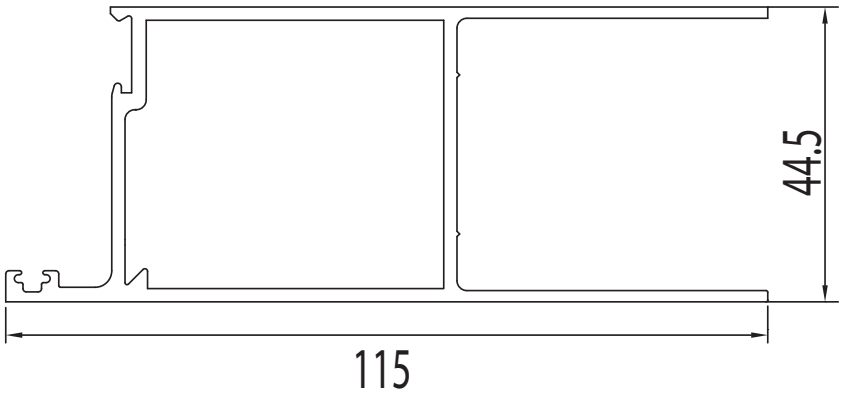


HV281
Heavy Duty Stile - Single Glazed

I_{xx} = 162.64 x 10^3 mm^4
I_{yy} = 276.91 x 10^3 mm^4

A.P. = 313 mm
P.P. = 160 mm

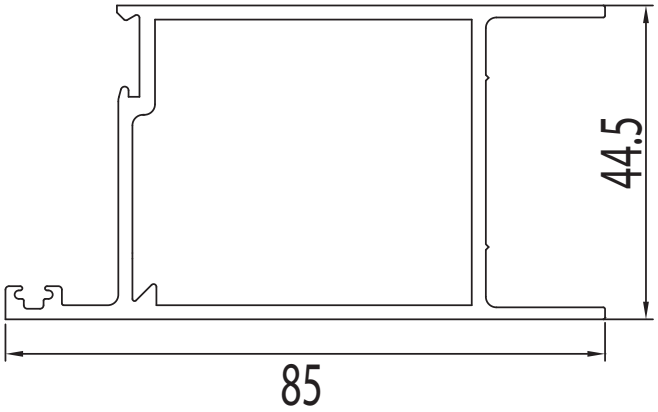
Panel Profiles



HV275
Large Rail - Double Glazed

I_{xx} = 210.50 x 10^3 mm^4
I_{yy} = 567.17 x 10^3 mm^4

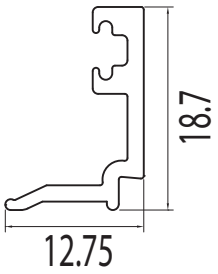
A.P. = 433 mm
P.P. = 220 mm



HV277
Small Rail - Double Glazed

I_{xx} = 162.64 x 10^3 mm^4
I_{yy} = 276.91 x 10^3 mm^4

A.P. = 313 mm
P.P. = 160 mm

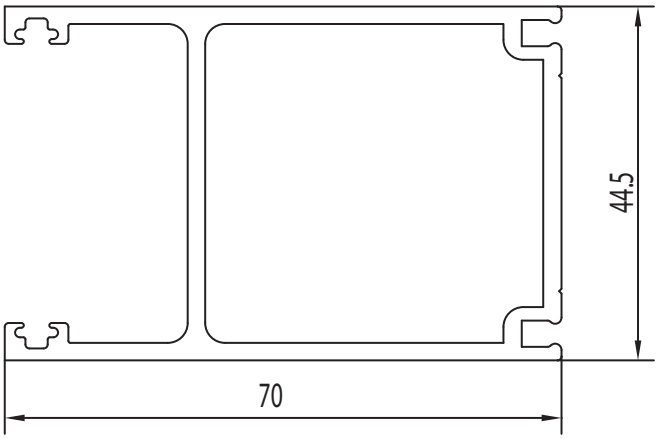


HV276
Door Bead - Double Glazed

I_{xx} = 2.14 x 10^3 mm^4
I_{yy} = 0.51 x 10^3 mm^4

A.P. = 75 mm
P.P. = 100 mm

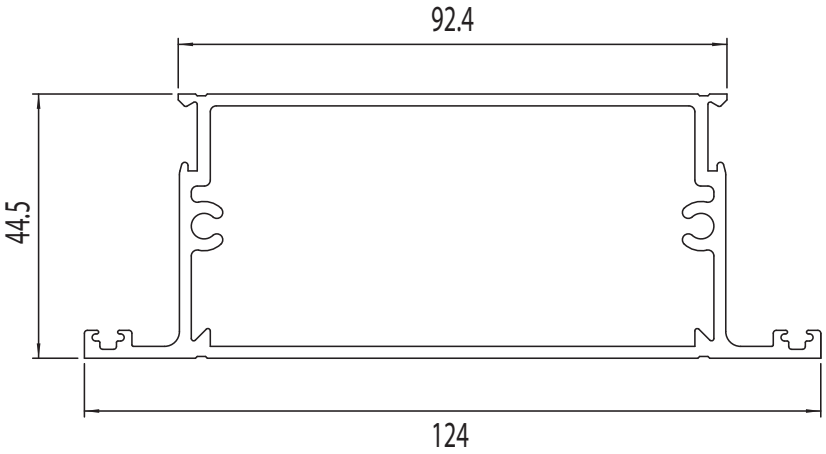
Panel Profiles



HV291
Stile - Double Glazed

I_{xx} = 171.83 x 10^3 mm^4
I_{yy} = 256.80 x 10^3 mm^4

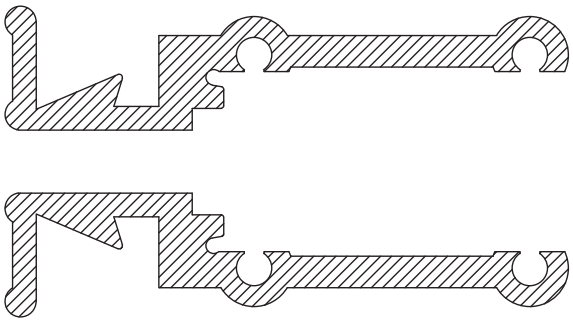
A.P. = 320 mm
P.P. = 215 mm



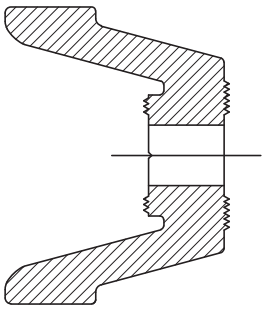
HV278
124mm Midrail - Double Glazed

I_{xx} = _ x 10^3 mm^4
I_{yy} = _ x 10^3 mm^4

A.P. = 384 mm
P.P. = 231 mm



1817
Open Pocket Spigots
Set of 4 Included Bolts
Suits TJ451

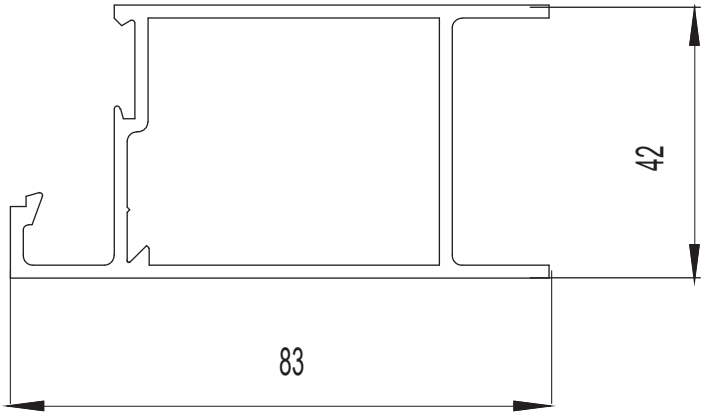


1829
Saddle Spigot

I_{xx} = _ x 10^3 mm^4
I_{yy} = _ x 10^3 mm^4

A.P. = 175 mm
P.P. = 00 mm

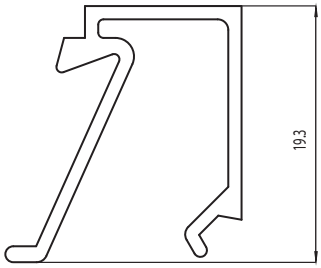
Appendix



TJ313
Small Bottom Rail
Fits With
TJ311/312/314/321
TJ322/327/154/155
TJ158/159

I_{xx} = 144.5 x 10^3mm^4
I_{yy} = 298.9 x 10^3mm^4

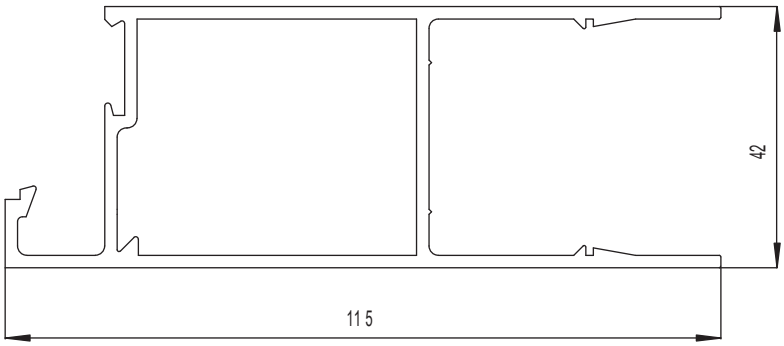
A.P. = 313 mm
P.P. = 161 mm



TJ314
Door Bead
Fits With
TJ124/313/315/326/369

I_{xx} = 2.5 x 10^3mm^4
I_{yy} = 1.85 x 10^3mm^4

A.P. = 117 mm
P.P. = 100 mm

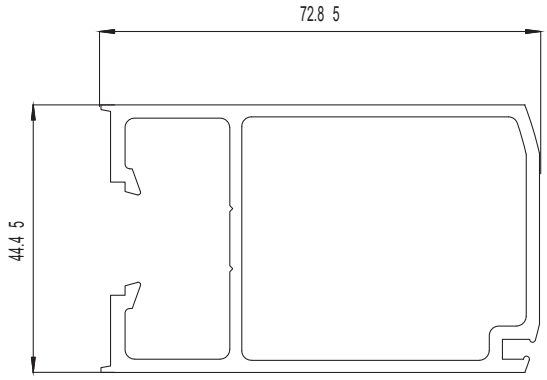


TJ315
Door Bottom Rail
Fits with
TJ311/312/314/321
TJ322/327/154/155
TJ158/159

I_{xx} = 200.4 x 10^3mm^4
I_{yy} = 673.3 x 10^3mm^4

A.P. = 447 mm
P.P. = 227 mm

Appendix

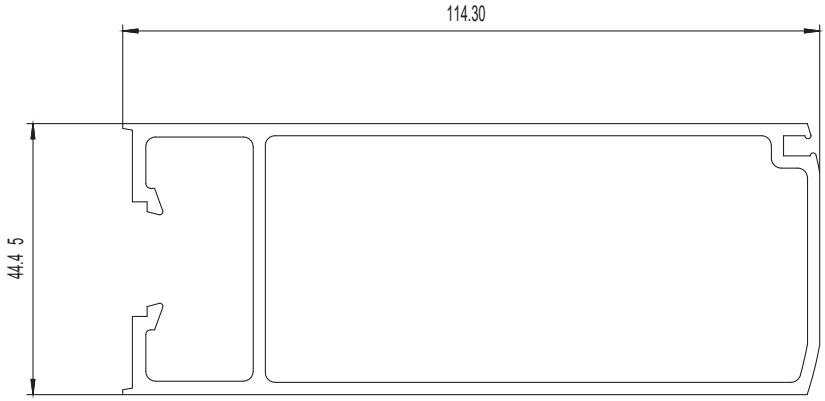


TJ440

73mm Open Pocket Hinge and Lock Stile - Single Glazed

I_{xx} = 170.9 x 10^3 mm^4
I_{yy} = 333.2 x 10^3 mm^4

A.P. = 339 mm

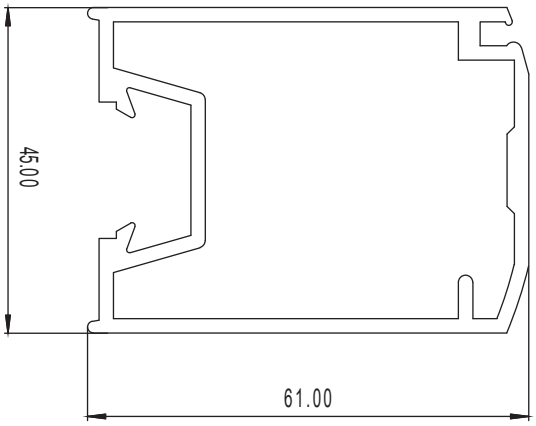


TJ450

114mm Open Pocket Hinge and Lock Stile - Single Glazed

I_{xx} = 243.7 x 10^3 mm^4
I_{yy} = 1053.65 x 10^3 mm^4

A.P. = 423 mm

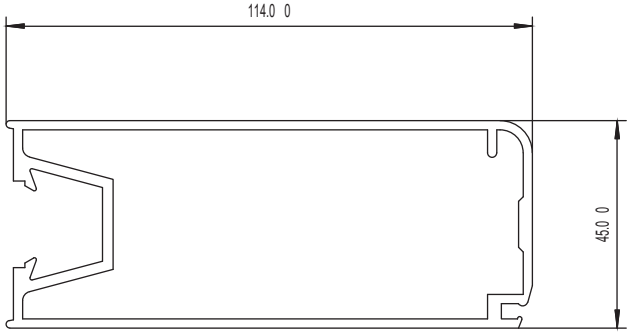


TJ312

Hinge and Lock Stile - Single Glazed
Fits With TJ313/315

I_{xx} = 234.1 x 10^3 mm^4
I_{yy} = 146.9 x 10^3 mm^4

A.P. = 258 mm

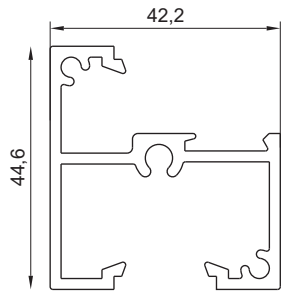


TJ155

114mm Lock Stile - Single Glazed
Fits With TJ313/315

I_{xx} = 251.0 x 10^3 mm^4
I_{yy} = 1212.5 x 10^3 mm^4

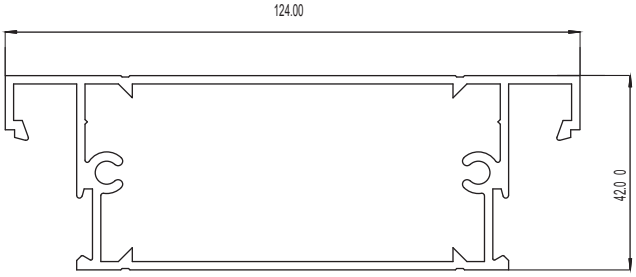
A.P. = 377 mm



TJ326

45mm Mid Rail
Fits with
TJ311/312/314/321
TJ322/327/154/155
TJ158/159

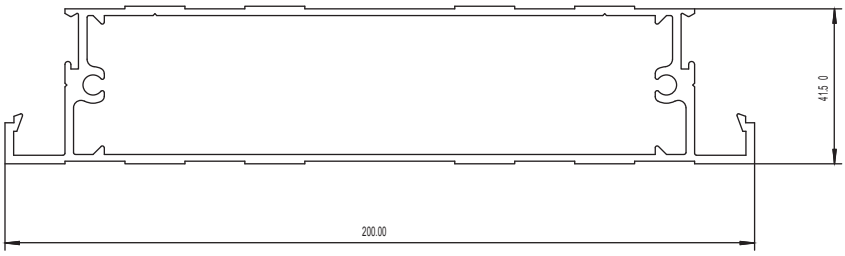
I_{xx} = 62.9 x 10^3mm^4
I_{yy} = 86.19 x 10^3mm^4
A.P. = 337mm



TJ124

124mm Mid Rail
Fits with
TJ311/312/314/321
TJ322/327/154/155
TJ158/159

I_{xx} = 187.8 x 10^3mm^4
I_{yy} = 1055.1 x 10^3mm^4
A.P. = 412mm

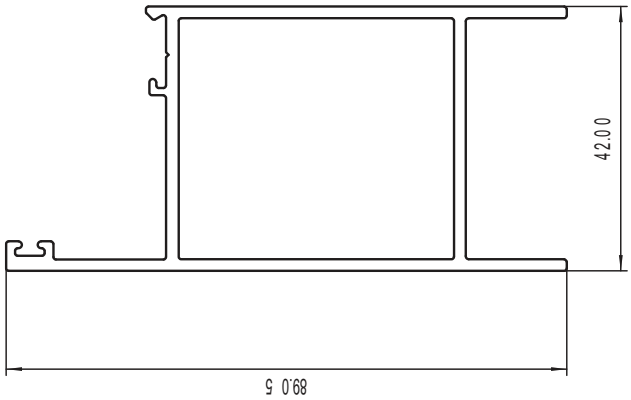


TJ369

200mm Mid Rail
Fits with
TJ311/312/314/321
TJ322/327/154/155
TJ158/159

I_{xx} = 329.4 x 10^3mm^4
I_{yy} = 4643 x 10^3mm^4
A.P. = 568 mm

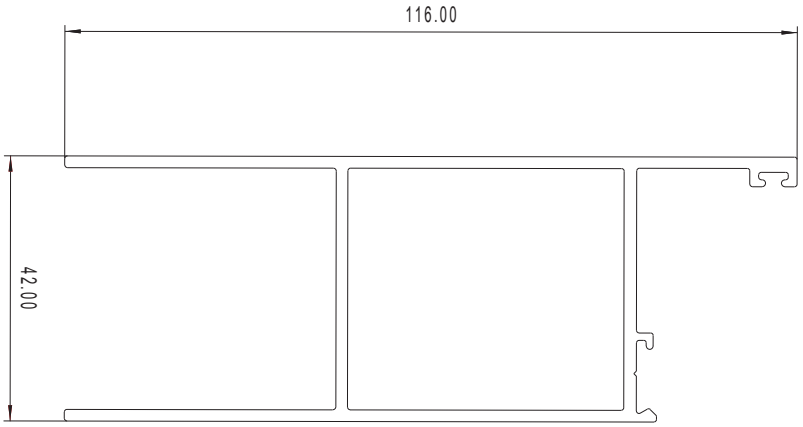
Appendix



TJ419
Double Glazed Top Rail
Fits with TJ227

I_{xx} = 272.15 x 10^3 mm^4
I_{yy} = 136.06 x 10^3 mm^4

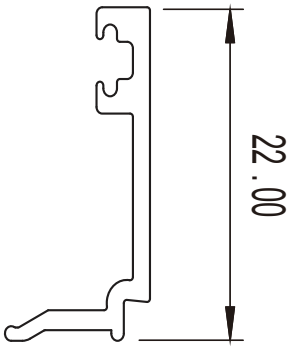
A.P. = 317 mm



TJ420
Double Glazed Large Rail
Fits with TJ227

I_{xx} = 588.12 x 10^3 mm^4
I_{yy} = 183.98 x 10^3 mm^4

A.P. = 445 mm

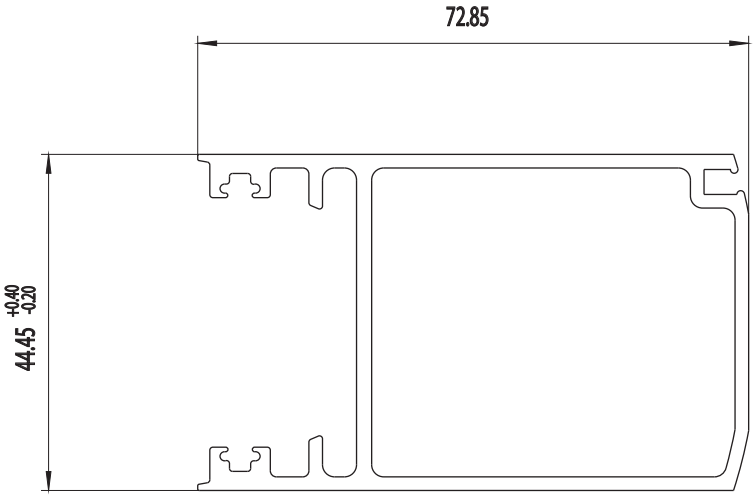


TJ227
Double Glazed Bead
Fits with TJ419/420/438

I_{xx} = 0.56 x 10^3 mm^4
I_{yy} = 4.77 x 10^3 mm^4

A.P. = 100 mm

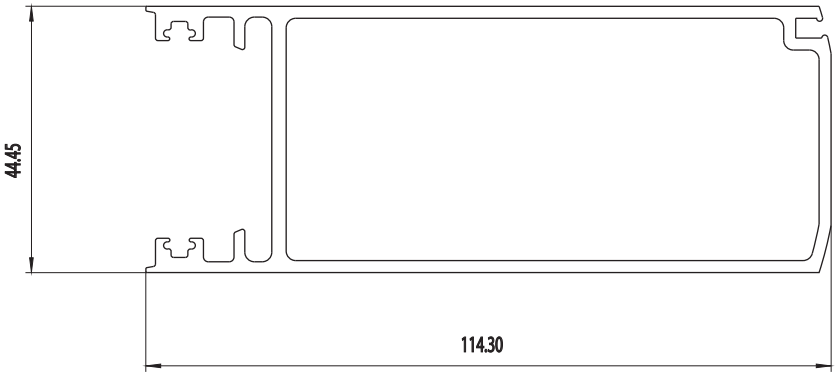
Appendix



TJ418
Hinge and Lock Stile - Double Glazed

I_{xx} = 161.71 x 10^3 mm^4
I_{yy} = 270.97 x 10^3 mm^4

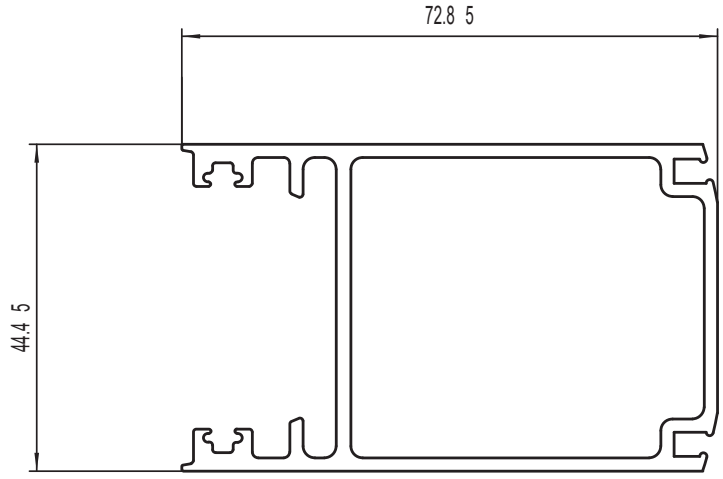
A.P. = 331 mm



TJ436
114mm Open Pocket Lock Stile
Fits with TJ419/420

I_{xx} = 247.39 x 10^3 mm^4
I_{yy} = 993.41x 10^3 mm^4

A.P. = 414 mm

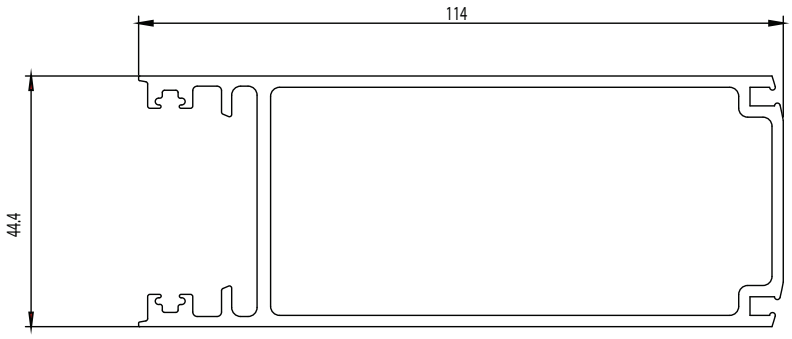


TJ421
73mm Open Pocket Pivot Stile
Fits with TJ419/420

I_{xx} = 164.98 x 10^3 mm^4
I_{yy} = 280.47 x 10^3 mm^4

A.P. = 342 mm

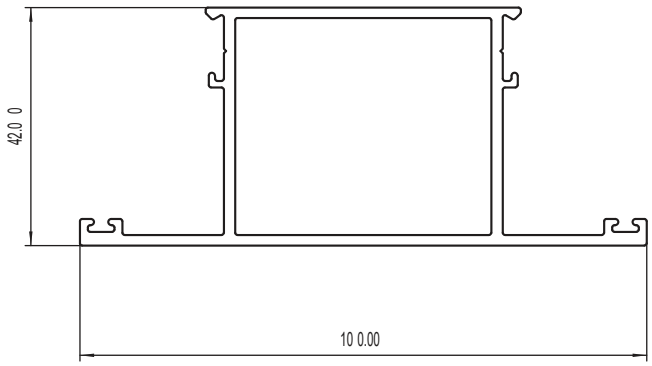
Appendix



TJ439
114mm Open Pocket Pivot Stile
Fits with TJ419/420

I_{xx} = 250.51 x 10^3 mm^4
I_{yy} = 1023.37 x 10^3 mm^4

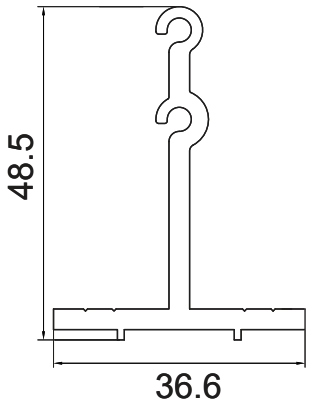
A.P. = 425 mm



TJ438
Double Glazed 100mm MidRail
Fits with TJ227

I_{xx} = 134.02 x 10^3 mm^4
I_{yy} = 326.07 x 10^3 mm^4

A.P. = 336 mm

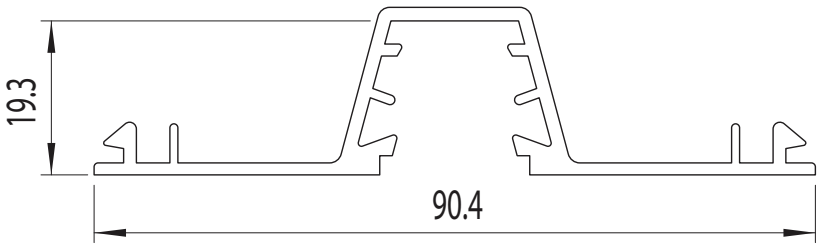


TJ212
Mid Rail Bracket
Fits with TJ438

I_{xx} = 24.37 x 10^3 mm^4
I_{yy} = 12.87 x 10^3 mm^4

A.P. = 161 mm

Additional Profiles



TJ304
Glazing Adaptor

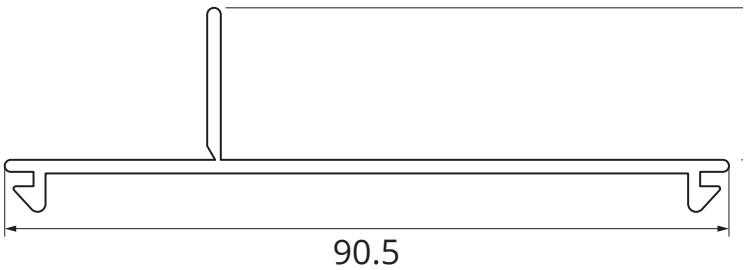
I_{xx} = 13.28 x 10^3 mm^4
I_{yy} = 156.70 x 10^3 mm^4

A.P. = 329 mm
P.P. = 100 mm

TJ305
Flush Adaptor

I_{xx} = 0.248 x 10^3 mm^4
I_{yy} = 133.74 x 10^3 mm^4

A.P. = 206 mm
P.P. = 100 mm



TJ342
Reveal Clip-In

I_{xx} = 4.31 x 10^3 mm^4
I_{yy} = 150.12 x 10^3 mm^4

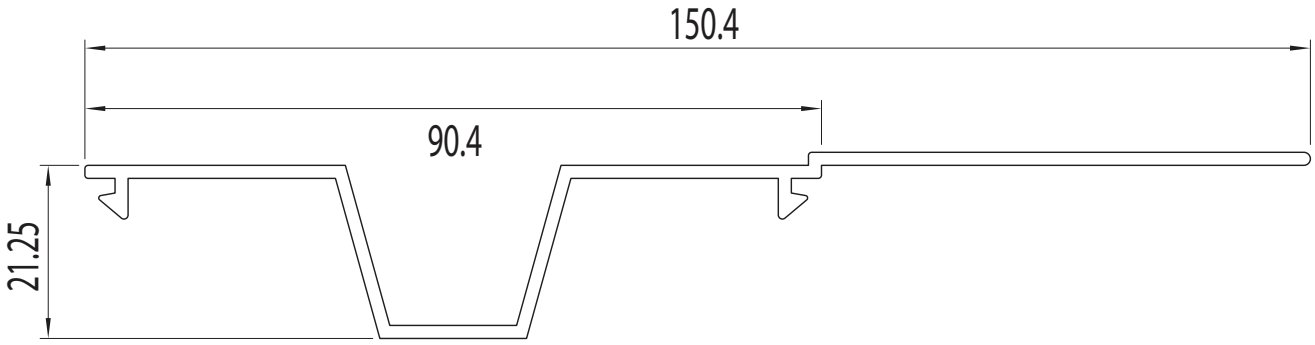
A.P. = 244 mm
P.P. = 130 mm

Additional Profiles

TJ345
Fixing Adaptor

I_{xx} = 156.10 x 10^3 mm^4
I_{yy} = 541.51 x 10^3 mm^4

A.P. = 389 mm
P.P. = 100 mm



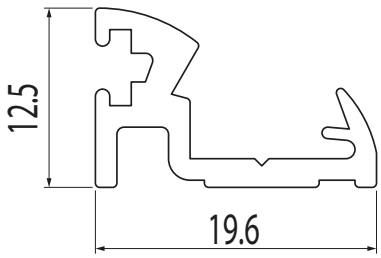
TJ385
Back to Back Adaptor

I_{xx} = 0.655 x 10^3 mm^4
I_{yy} = 177.687 x 10^3 mm^4

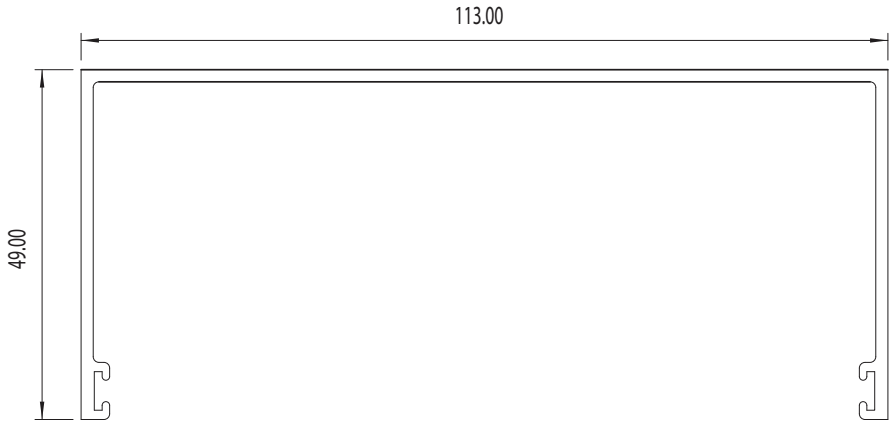
A.P. = 247 mm
P.P. = 100 mm

TJ773
Plant-On Door Seal

A.P. = 100 mm
P.P. = - mm



Subframing Profiles



TJ309
100mm Sub-Head 49mm Tall

I_{xx} = 101.15 x 10^3 mm^4
I_{yy} = 754.64 x 10^3 mm^4

A.P. = 441 mm
P.P. = 106 mm

TJ392
100mm Sub Head 50mm Tall

I_{xx} = 127.86 x 10^3 mm^4
I_{yy} = 1005.45 x 10^3 mm^4

A.P. = 442 mm
P.P. = 108 mm

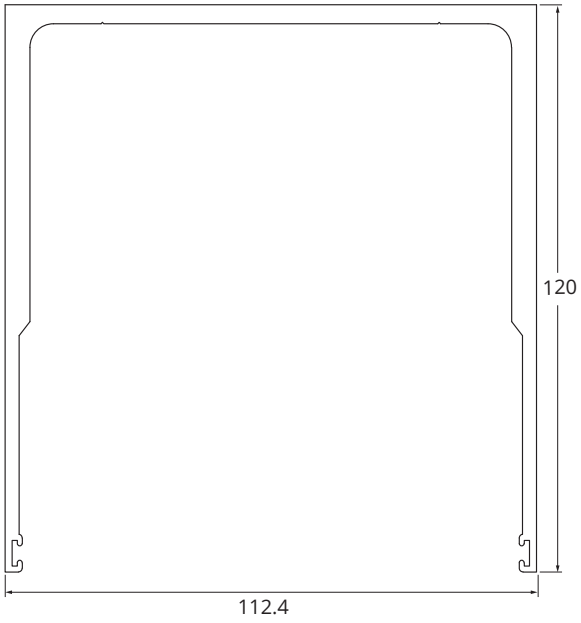
TJ692
100mm Sub Head 80mm Tall

I_{xx} = 571.919 x 10^3 mm^4
I_{yy} = 1945.744 x 10^3 mm^4

A.P. = 557 mm
P.P. = 168 mm

Appendix

Subframing Profiles



TJ520
100mm Sub Head
120mm Deep

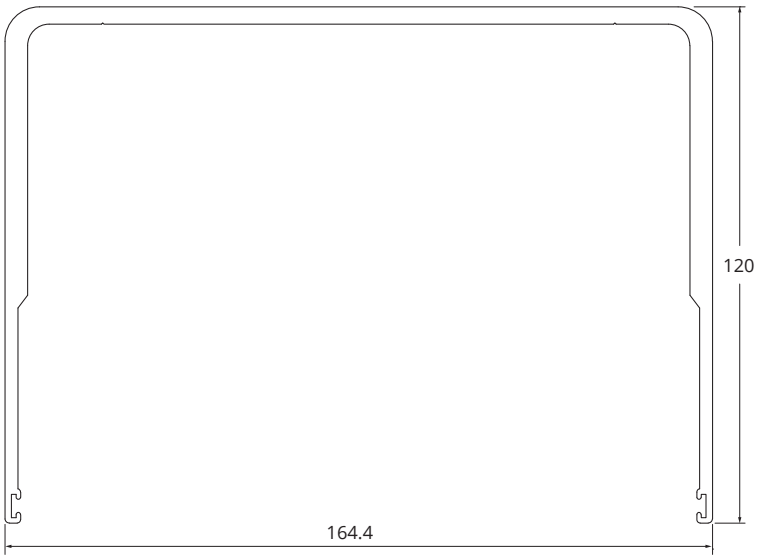
I_{xx} = 1823.1 x 10^3 mm^4
I_{yy} = 3343.96 x 10^3 mm^4

A.P. = 708 mm
P.P. = 246 mm

TJ692
100mm Sub Head
80mm Deep

I_{xx} = 571.9 x 10^3 mm^4
I_{yy} = 1945.7 x 10^3 mm^4

A.P. = 557 mm
P.P. = 168 mm



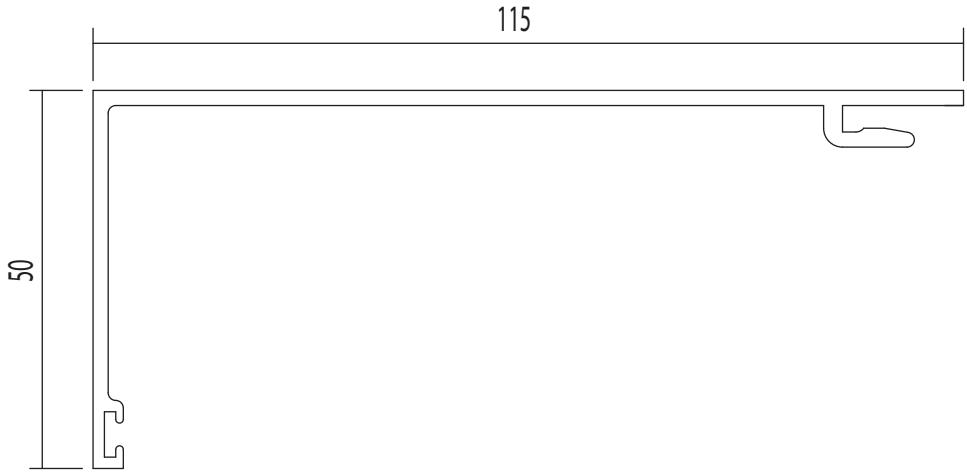
TJ6155
150mm Sub Head
120mm Deep

I_{xx} = 2019.12 x 10^3 mm^4
I_{yy} = 7606.43 x 10^3 mm^4

A.P. = 804 mm
P.P. = 246 mm

Appendix

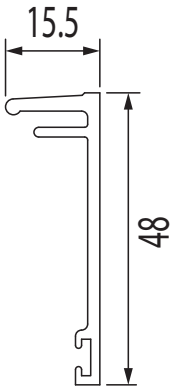
Subframing Profiles



TJ431
100mm Two Part Sub Head
50mm Tall

I_{xx} = 69.16 x 10^3 mm^4
I_{yy} = 592.76 x 10^3 mm^4

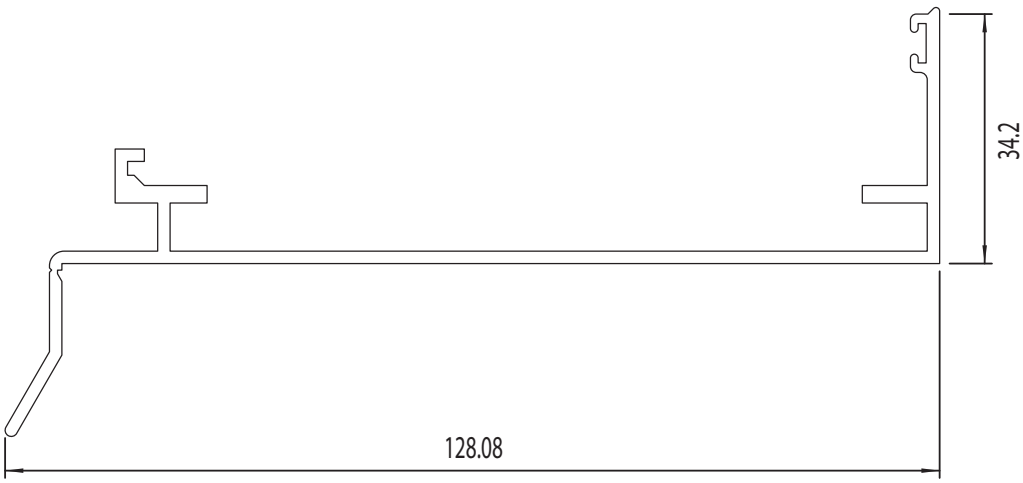
A.P. = 365 mm
P.P. = 100 mm



TJ6159
Sub Head/Jamb Cover
50mm Tall
(Covers can suit 100, 150, 165 framing, Thermal & non-thermal)

I_{xx} = 35.87 x 10^3 mm^4
I_{yy} = 2.071 x 10^3 mm^4

A.P. = 150 mm
P.P. = 100 mm



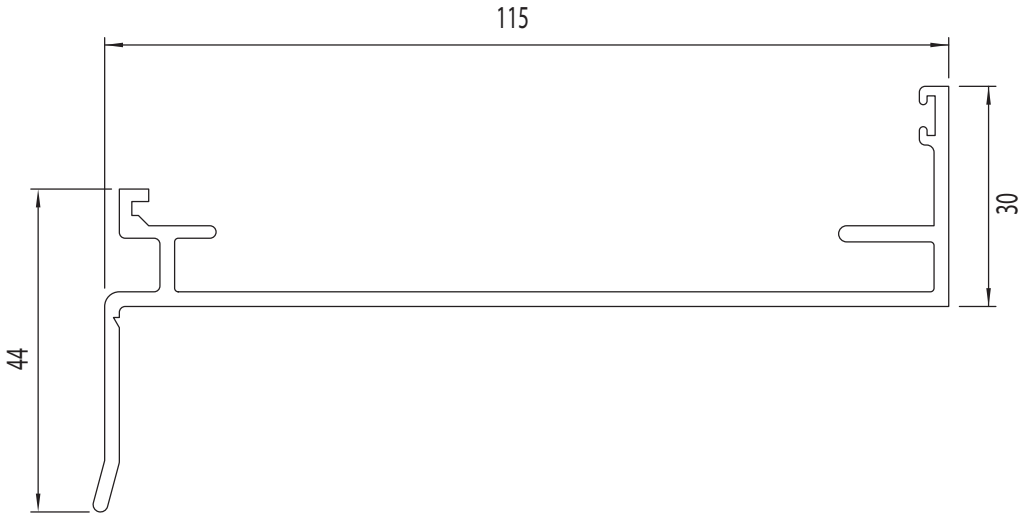
TJ359
Light Duty Sub Sill

I_{xx} = 39.92 x 10^3 mm^4
I_{yy} = 799.1 x 10^3 mm^4

A.P. = 447 mm
P.P. = 106 mm

Appendix

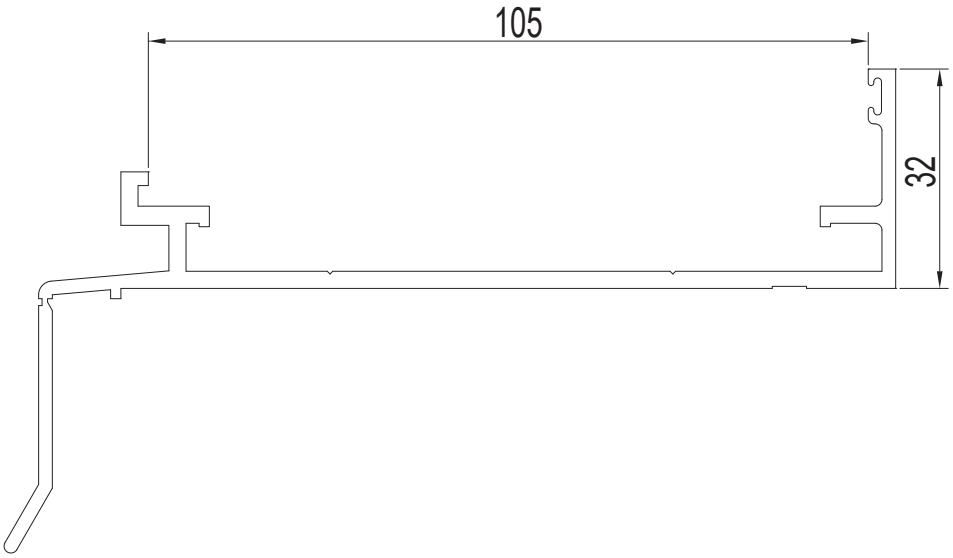
Subframing Profiles



TJ368
Standard Sub Sill

I_{xx} = 402.0 x 10^3 mm^4
I_{yy} = 790.1 x 10^3 mm^4

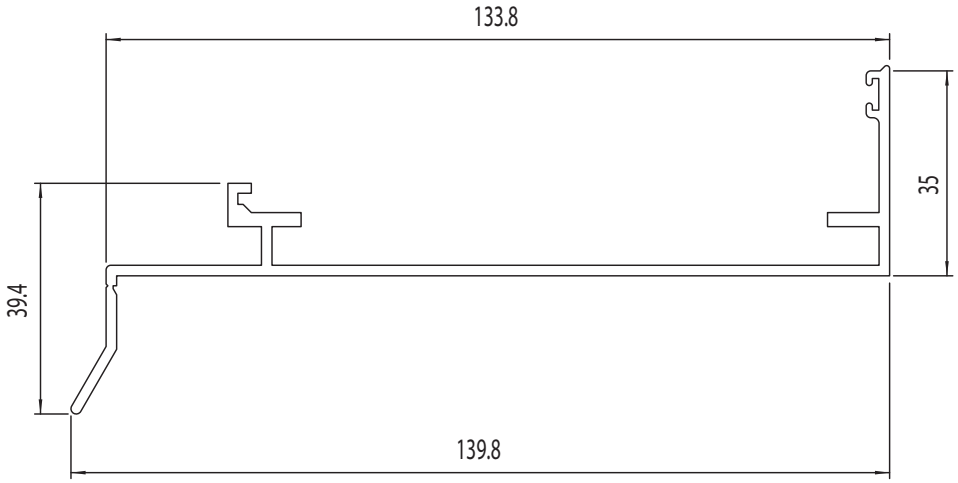
A.P. = 433 mm
P.P. = 100 mm



TJ379
Heavy Duty Sub Sill

I_{xx} = 76.3 x 10^3 mm^4
I_{yy} = 1117.9 x 10^3 mm^4

A.P. = 476 mm
P.P. = 118 mm



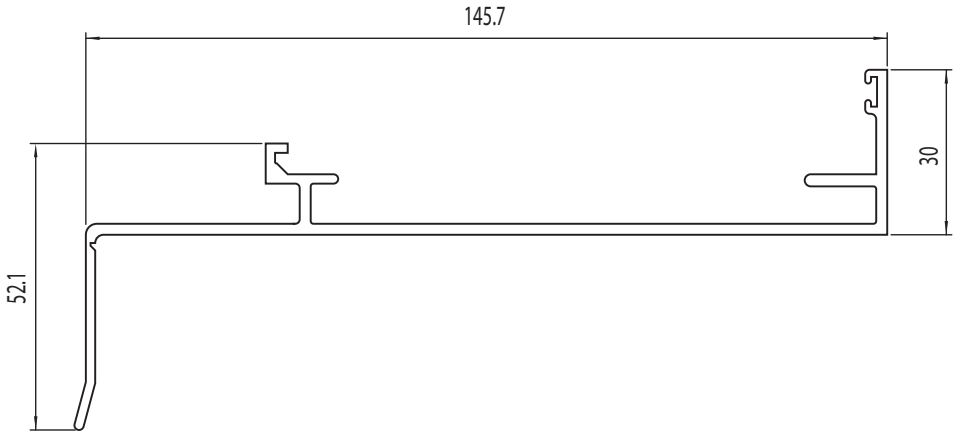
TJ259
Sub-Sill

I_{xx} = 28 x 10^3 mm^4
I_{yy} = 1001.4 x 10^3 mm^4

A.P. = 471 mm
P.P. = 119 mm

Appendix

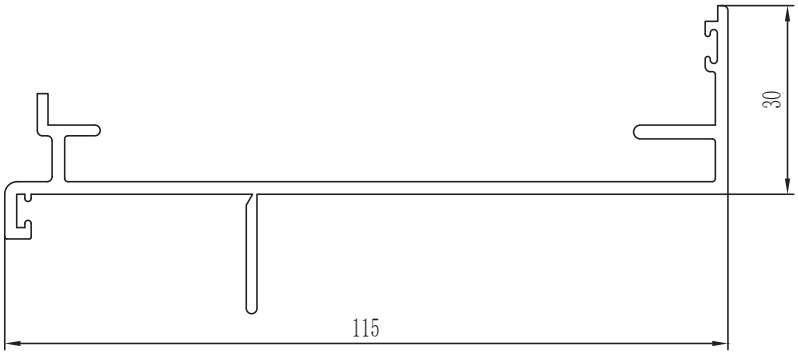
Subframing Profiles



TJ432
Subsill - 35mm Backset (Slotted)

I_{xx} = 54.781 x 10^3 mm^4
I_{yy} = 1332.169 x 10^3 mm^4

A.P. = 511 mm
P.P. = 135 mm



TJ370
Subsill with Reveal

I_{xx} = 25.41 x 10^3 mm^4
I_{yy} = 671.71 x 10^3 mm^4

A.P. = 425 mm
P.P. = 100 mm

Appendix

AUSTRALIAN GLASS & WINDOW ASSOCIATION

Heating Cooling WINDOW ENERGY RATING SCHEME®

Darley Aluminium

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

Manufacturing Standards;

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

Product Testing and Compliance;

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

https://agwa.imiscloud.com/WERS/

Warranty

Darley Aluminium, Door & Framing extrusions are warranted for a period of 6 years as per AS2047 requirements, unless otherwise specified.
Powder coat and anodised finished can be warranted for extended periods subject to application. Warranty is subject to the following conditions:

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

Care & Maintenance

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

Tracks:

Keep tracks free from obstruction and excessive dirt or water.

Guides and Spindles:

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

Rollers:

As per manufacturer's instructions.

Hinges, Hangers & Flush Bolts:

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

Seals and PVC Product:

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

Glass:

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

Ver 3: August 2023

Darley Aluminium
CityView Two-Piece Interlock Patio Door

1.Technical Manual Release Notes

This page is intended to record all changes to the **CITYVIEW TWO-PIECE INTERLOCK PATIO SLIDING DOOR 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
8	08/23	Add Subframing profiles TJ692, TJ520, TJ6155	Appendix pg. **63**
9	09/23	Added General Config. Table	Fabrication pg. 8
9	09/23	Updated to TJ profiles for panel assembly	Fabrication pg. 33
9	09/23	More TJ profile options added	Appendix
10	01/23	Added CSG Frame Options (Replace TJ Frames)	

Darley Aluminium delivers complete, high-performance aluminium window, door and framing solutions for residential, commercial or architectural projects - combining Australian design, reliable supply, and expert support to make every project easier.

Window, Door and Framing

CityView™
Commercial Systems

High-performance commercial window, door and framing systems designed for flexibility, durability, and seamless integration into modern architectural projects.

KlassicView™
Residential Windows & Doors

Modern, versatile window and door systems that bring style, flexibility, and reliable performance to any home.

HarbourView™
Multi-fold Doors

Premium multi-fold door systems that deliver expansive openings, smooth operation, and architectural sophistication for high-end spaces.

ClimateGuard™
Thermally-broken Windows & Doors

Energy-efficient window and door systems designed to keep interiors comfortable while reducing heat transfer.

Security

ScreenGuard™
Stainless Steel Security

Advanced heavy-duty security screens that provide maximum protection without compromising visibility, airflow, or style.

PerfGuard™
Perforated Aluminium Mesh

Durable, corrosion-resistant aluminium screening that combines security, strength, and design versatility for any application.

Outdoor Screening and Enclosure

ScreenView™
Fly Screens & Fly Doors

Durable, all-weather enclosures that let you enjoy open-air living with protection from insects and the elements.

ScreenSmart™
Easy-to-install Screening

A sleek, easy-to-install screening solution that enhances privacy and style across any space.

What sets Darley Aluminium apart?

- **Complete Solutions -** Everything you need from system to support that simplifies specification, fabrication, and installation.
- **Australian Designed -** Built for local conditions and standards, delivering lasting quality and compliance.
- **Proven Reliability -** Trusted for over 30 years with a national distribution network delivering consistent supply and dependable service

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Darley Aluminium understands how important it is to receive trusted solutions, quality products, and reliable supply. That's why we are committed to delivering high standards and friendly, dependable service you can rely on.

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Victoria and South Australia

10 Bridge Road, Keysborough VIC 3173
Tel (03) 9238 3888 | Fax (03) 9768 7288
salesvic@darleyaluminium.com.au

Queensland

29 Access Avenue, Yatala QLD 4207
Tel (07) 3287 1888 | Fax (07) 3287 2088
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