
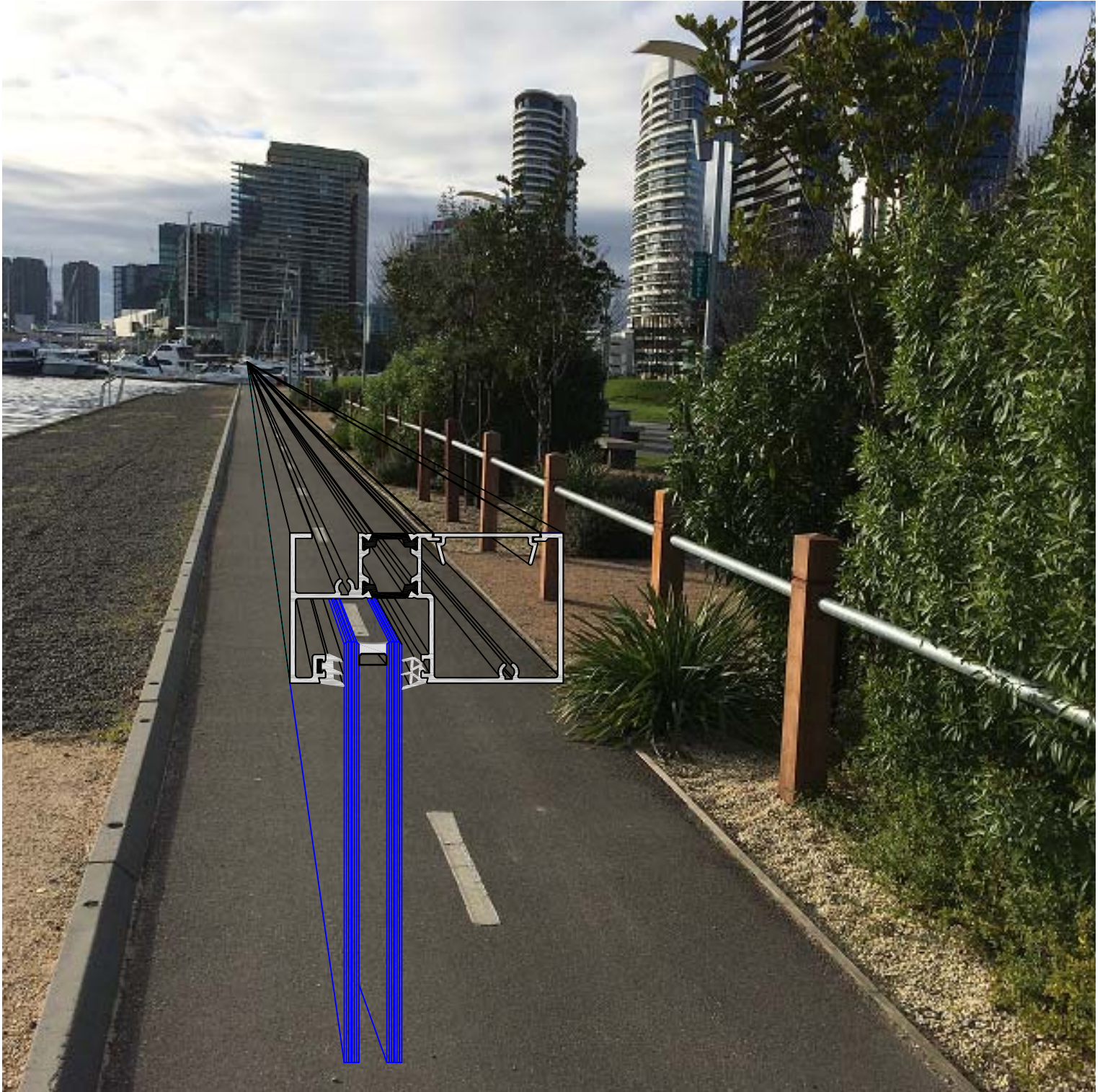


# *path* - 9000 SERIES

*thermal  break window system*



**PRESS METAL**

Press Metal Aluminium (Australia) Pty Limited  
[www.pressmetal.com.au](http://www.pressmetal.com.au)

SUPPORTED BY:



COMMERCIAL CATALOGUE  
WINDOWS & DOORS

DATE ISSUED - DECEMBER 2021

## GROUP INTRODUCTION



Press Metal Berhad (PMB) is a Multinational Corporation with headquarters in Kuala Lumpur, Malaysia, as well as operations in the United Kingdom, Australia, Hong Kong and Dubai. The Company was incorporated in 1986 and subsequently listed on the Kuala Lumpur Stock Exchange in 1993. PMB Technology Berhad, its subsidiary company, also became a public company in 2003.

PMB specializes in Aluminium Extrusion manufacturing and is one of the Largest produces in Southeast Asia. PMB Facade Sdn Bhd (Malaysia) and PMB-Cyberwall Ltd (Hong Kong), both under PMB Technology Berhad are Leading Curtain Wall Contractors in this region with an Excellent Track Record. The projects involved include many famed buildings such as Chep Lak Kok Airport (Hong Kong), Plaza 66 (Shanghai, China), Golden Hall (Macao) and a1 Bidda (Doha, Qatar) and so on.

Through continuous growth in the past Twenty Years, PMB has emerged to be an internationally well recognized establishment. To fulfill its aggressive expansion plan, it has relocated its major production facility to china by setting up Press metal international Ltd in Foshan, China in 2005. The factory sits on a 760,000m2 area of land which will house a complete aluminium extrusion facility with eventual production capacity of 200,00 tonnes per annum.

Press Metal Aluminium (Australia) Pty Ltd, is part of the Press metal Berhad (PMB) Group and is the Australian Distributer for all Aluminium Extrusions Manufactured by the group.

The Window and Sliding Door products shown in this catalogue are all Australian Designed and Australian Tested, to compliance with the Relevant Australian Standards.

### **PRESS METAL ALUMINIUM (AUSTRALIA) PTY LTD - SALES OFFICE CONTACTS**

#### SYDNEY:

1012-1016 Canley Vale Road,  
Wetherill Park, NSW, 2164,  
Australia

Tel: (02) 9756 5555

Fax: (02) 9756 5499

email: sales@pmaa.net.au

[www.pmaa.net.au](http://www.pmaa.net.au)

#### BRISBANE:

43 Motorway Circuit,  
Ormeau, QLD, 4208, Australia

Tel: (07) 5540 6100

Fax: (07) 5540 6144

email: sales @pmaa.net.au

#### MELBOURNE:

32 Southeast Boulevard,  
Pakenham, VIC, 3810

Tel: 03 9776 9976

email: sales@pmaa.net.au


DESIGN REGISTRATION APPLIES

**COPYRIGHT PROTECTED:** The contents of this catalogue including all profile & section drawings, specifications, testing & performance data are registered and copyright protected and cannot be transferred, copied or duplicated in any shape or form without written permission from Press Metal Aluminium (Australia) Pty Ltd.

*path*

thermal  break window system

**PAGE - A**

Press Metal Aluminium (Australia ) Pty Ltd ( PMAA) have designed and developed a Thermal  Break System of Windows and Doors to service the Australian Building Market. The Windows and Doors are available in both 100mm wide framing and 150mm wide framing, with wide glazing pockets suitable for glazing panels up to 30mm in thickness.

PMAA designs take account of the needs of the local fabricator with cost efficient methods of manufacture and the mating together of different types of frames. PMAA have developed quality tooling and punching machines to speed up the machining processes and to assist the fabricator with allocation of labour hours in fabrication and glazing. Please ask your, PMAA Account Sales Person for details of available Tooling.

PMAA are committed to quality products and have a program for testing of our window and door products to compliance with Australian Building codes and standards. Testing results will be available as each test is completed.

### Aluminium Extrusions


All Aluminium Extrusions in this catalogue are extruded in compliance with the specifications of Australian Standards AS-NZSi866-1997.

Our standard Aluminium Extrusion Alloy is 6063. T5. Other alloys and hardness are available on request and availability from our PMI China Plant.

### Finish.

PMAA can offer extrusions in mill finish, or Anodised, or Powder Coating finishes. Aluminium extrusions supplied in mill finish would be required to have a locally applied finish, by the Customer. Bulk Extrusion Orders can be supplied with Warranty Anodising or Powder Coating, applied at our PMI China Plant.

### Hardware.

path Thermal  Break Windows and Doors are designed to accept most types of hardware items. PMAA do stock “ Doric” Wheels and a selected range of” Doric “Locks and Handles. Other hardware items are shown in our catalogue and are available on request.

It is the responsibility of the customer to have an Engineer check the final design of a Window or Door for compliance with the relevant Building Code.

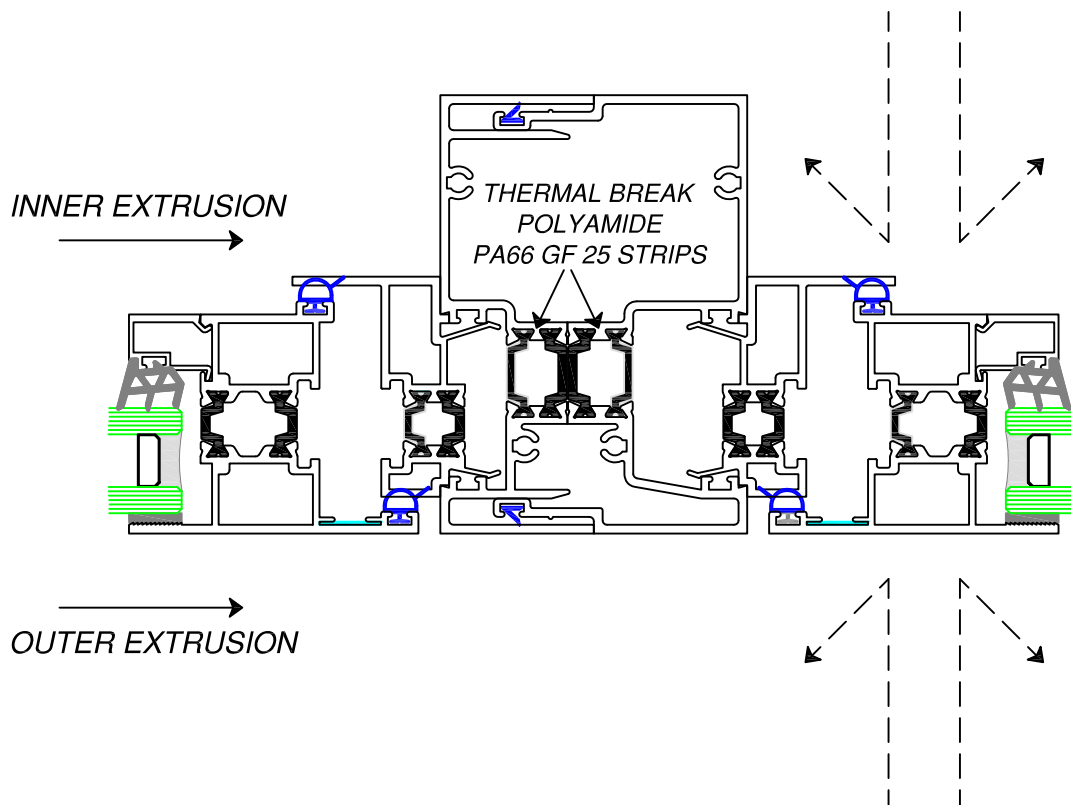
*All items contained in this manual are subject to PMAA normal Terms and Conditions, a copy of which is available on request. While PMAA make every effort to ensure the accuracy of the drawings and measurements contained in this manual, we neither Warrant nor Guarantee this accuracy and you should undertake your own measurements and not place any reliance on or act in consequence of the contents herein.*

**path**

*thermal  break window system*

**PAGE - B**

## Aluminium Extrusions to Fabricate Performance Energy Efficient Windows and Doors.



Quality Aluminum Extrusions joined together using Technoform PA66.GF 25 Dry Impact Resistant Thermal Break Strip allows the Designer / Fabricator the opportunity to provide High Energy Windows and Doors to their Building Project. The polyamide material divides the internal aluminium extrusion from the external aluminium extrusion, thus avoiding heat dispersion through the window and door panels.

Polyamide is an excellent thermal insulator.

Both the thermal properties and the acoustic values of a window and door are greatly improved.

path thermal break window and door systems greatly reduce the requirement for artificial heating or cooling, when designing your building.

**path**

thermal break window system

**PAGE - C**

## ALLOY 6063

### Description of Alloy

Alloy6063 provides a good combination of extrudability and mechanical properties. Its excellent extrudability allows thin-walled hollow shapes, intricate solid and other shapes that are usually difficult to extrude with satisfactory finish, to be produced more easily. It responds well to polishing, chemical brightening, anodizing and dyeing.

### Characteristics

Welding:	Alloy 6063 is readily welded by the MIG and TIG processes. The recommended filler alloy, particularly when welding exposed surfaces that will be anodized for decorative purpose, is 5356. Alloy 4043 may be used in other cases.
Rivets:	Alloy 6053-T61
Machining:	Readily machined in all temper given.
Forming:	All tempers may be formed, the softer tempers accepting more severe forming.
Corrosion:	Excellent resistance to the atmosphere, particularly for architectural applications.

### Tempers Available

Extrude Shapes T1, T4, T5 and T6

Other Alloys & Tempers Are Available  
Please Check with Sales Office

### Chemical Composition

Alloy 6063 is a heat-treatable aluminium-magnesium-silicone alloy.

%	si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others	
									Each	Total
Min	0.20									
Max	0.60	0.35	0.10	0.10	0.90	0.10	0.10	0.10	0.05	0.15

### Mechanical Properties

Temper	Size (or) Thickness (3mm)		Tensile Strength (Mpa) min		Elongation %
	Over mm	Up To	UTS (Min)	Yield (Min)	
T1		12	115	60	12
	12	25	110	55	10
T4		12	130	70	12
	12	25	120	70	10
T5		12	150	110	8
	12	25	145	105	6
T6		12	205	170	8
	12	25	150	130	6

*thermal break window system*

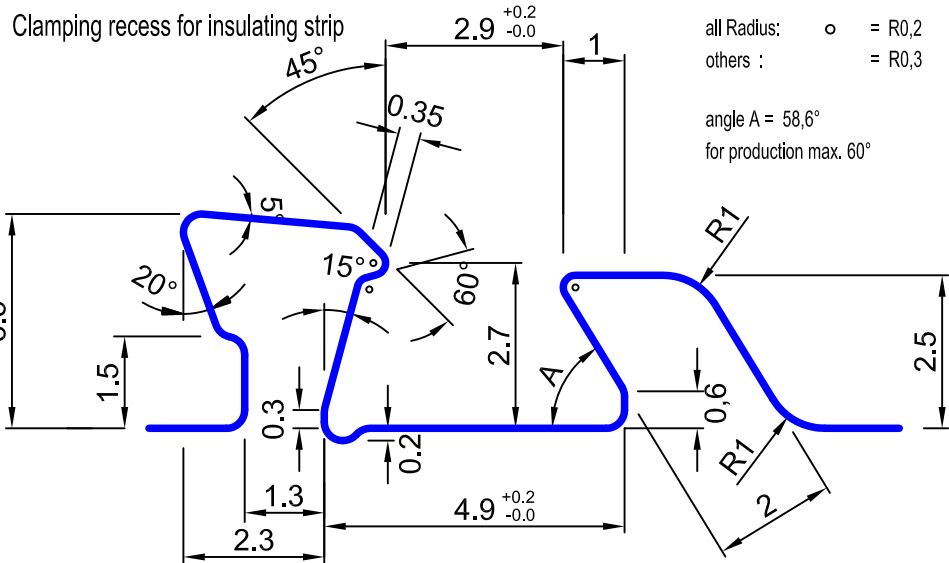
**Material Data Sheet**

TECHNOFORM BAUTEC  
 Insulating Profiles made of PA 66 GF25-Dry Impact Resistant

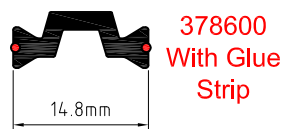
No:	Characteristics	Reference Standard	Unit	Samples Prepared From Extruded Insulating Strips		
				Dry 1	Humidity Equilibrium 2	Dry 1
1	Melting Temperature	EN ISO 11357-3	°C	min. 250	min. 250	min. 250
2	Density	EN ISO 1183-1 or -3	g/cm <sup>3</sup>	1.3 +/- 0.05	1.3 +/- 0.05	1.3 +/- 0.05
3	Annealing Residue (glass fibre content)	EN ISO 1172	%	25 +/-4	25 +/-4	25 +/-4
4	Shore Hardness D	EN ISO 868	-	82 +/-4	78 +/-4	84 +/-4
5	Impact Strength	EN ISO 179-1 3) DIN 53453 4)	kJ/m <sup>2</sup>	min. 30 or without break	min. 40 or without break	min. 35
6	Tensile Strength	EN ISO 527-2 and -4	N/mm <sup>2</sup>	min. 80	min. 50	min. 110
7	Young`s Modulus	EN ISO 527-2 and -4	N/mm <sup>2</sup>	min. 4,500	min. 2,000	min. 6,000
8	Elongation at Break	EN ISO 527-2 and -4	%	min. 3	min. 7	min. 3

1) Sample water content less than 0.2% by weight. 2) fast conditioning [EN ISO 1110] 3) Method 1fU. 4) Standard small specimen [50mm x 6mm x wall thickness]

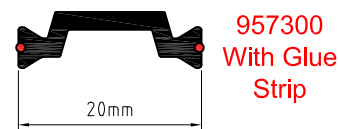
**Technoform Aluminium Groove for Standard Profiles**



**PROFILE "A"**



**PROFILE "B"**



*path*

# INDEX

## **SECTION : A**

*Selection of Extrusions, Hardware  
and Assembly Details*

*Pages: A01 to A47*

## **SECTION : B**

*Strength Charts - Thermal Ratings - Acoustic Ratings*

*Pages: B01 to B29*

## **SECTION : C**

*Machining Details*

*Pages C01 to C26*

*A Catalogue of:  
Aluminium Extrusions to Fabricate Performance Energy  
Efficient Windows and Doors.*

**AUSTRALIAN DESIGNED & TESTED**

**path**

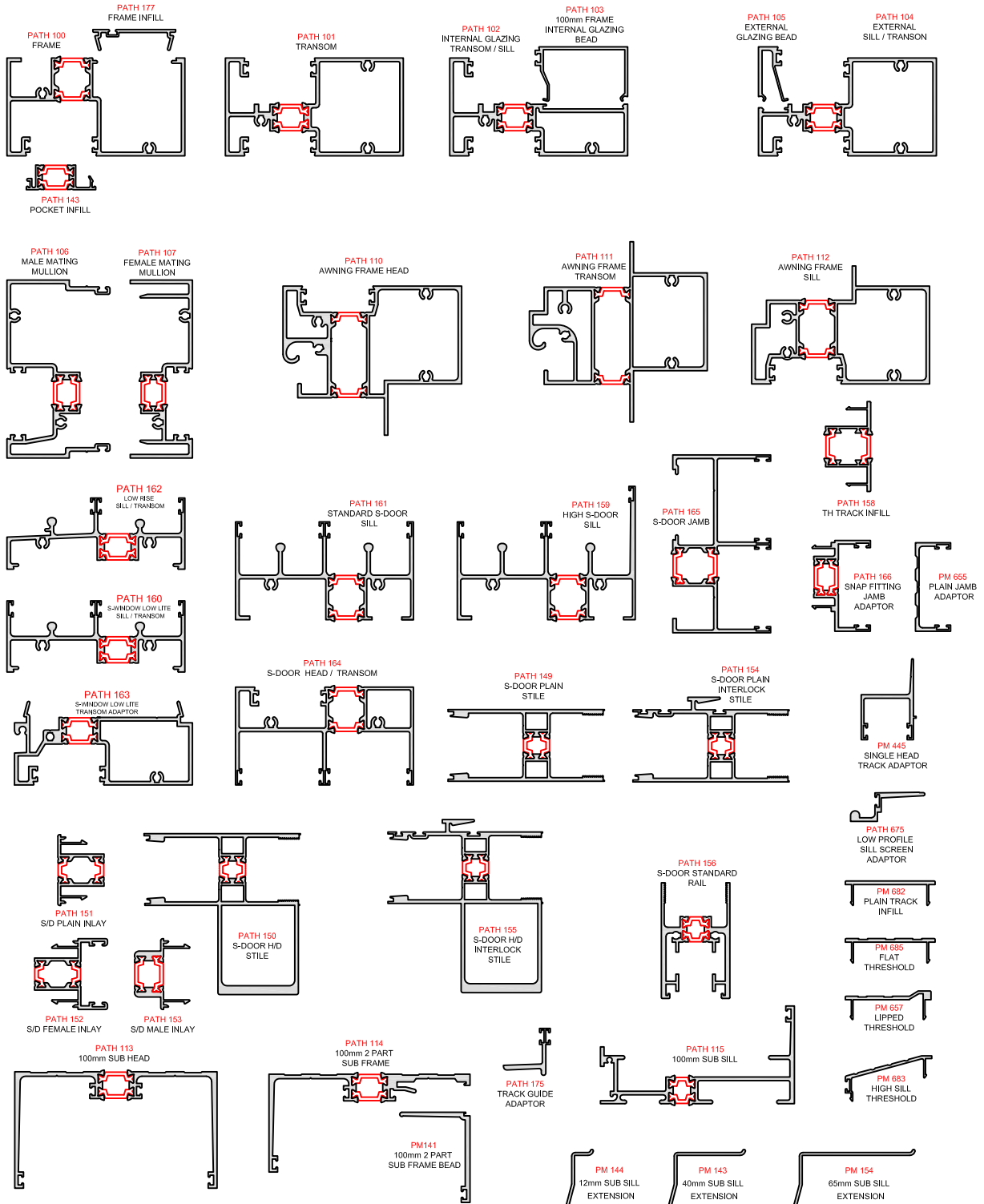
thermal  break window system

**PAGE - F**



# EXTRUSION PROFILES

NOT TO SCALE:



*path*

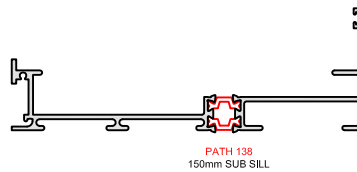
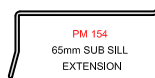
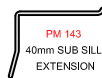
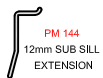
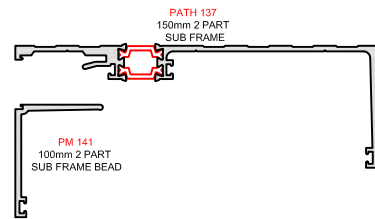
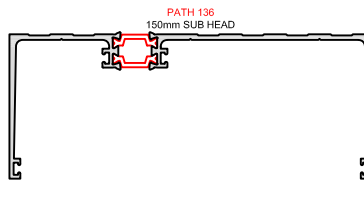
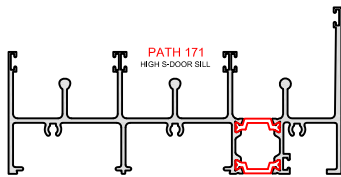
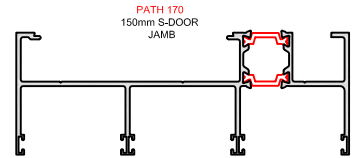
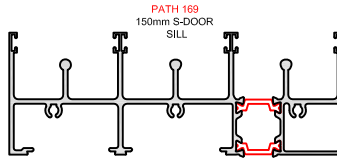
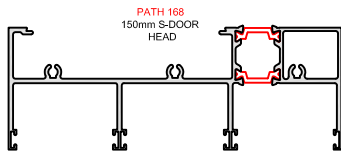
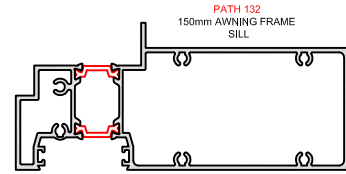
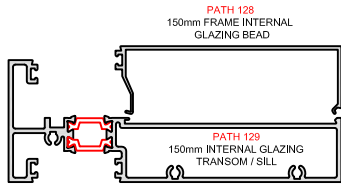
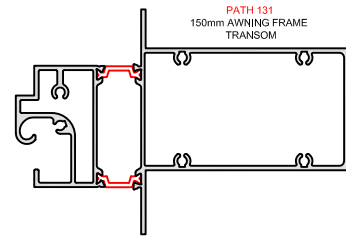
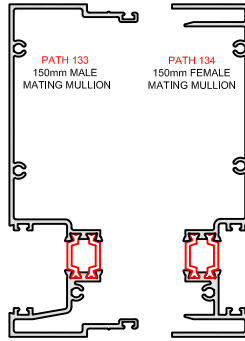
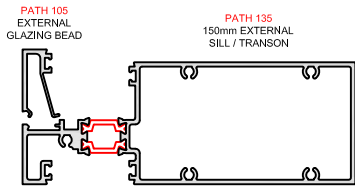
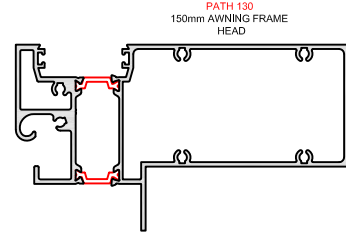
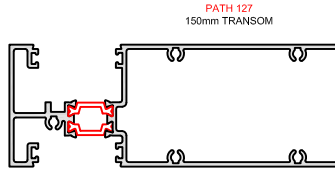
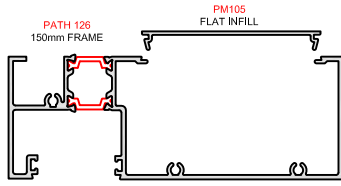
thermal break window system





# EXTRUSION PROFILES

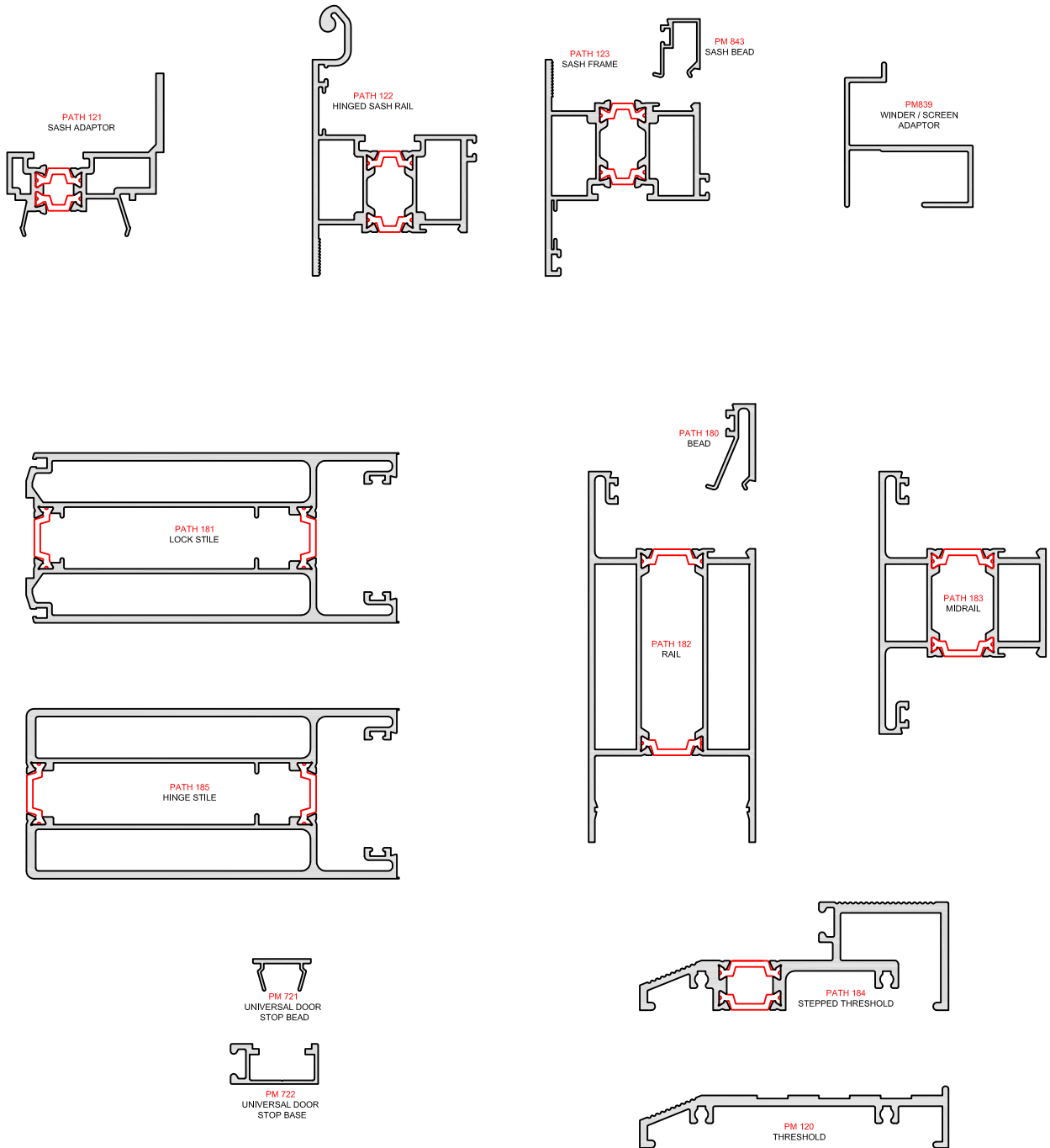
NOT TO SCALE:





# EXTRUSION PROFILES

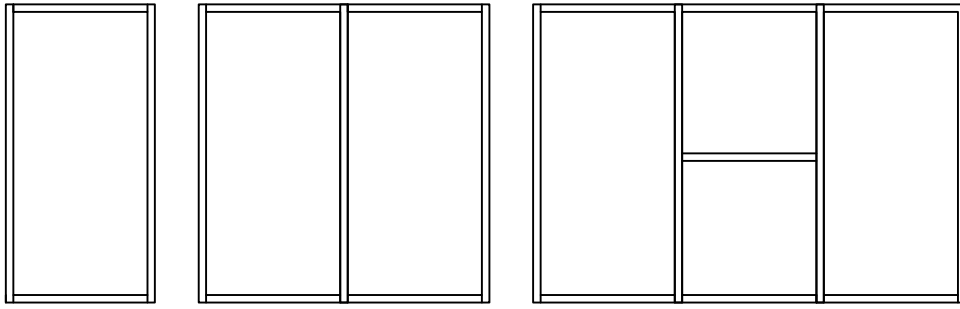
NOT TO SCALE:



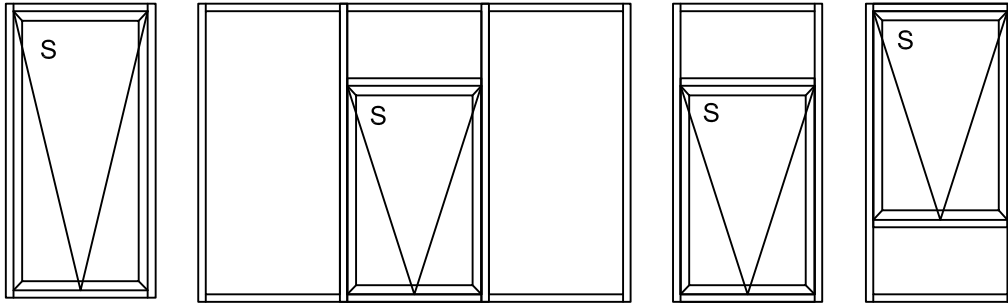
*path*

thermal break window system

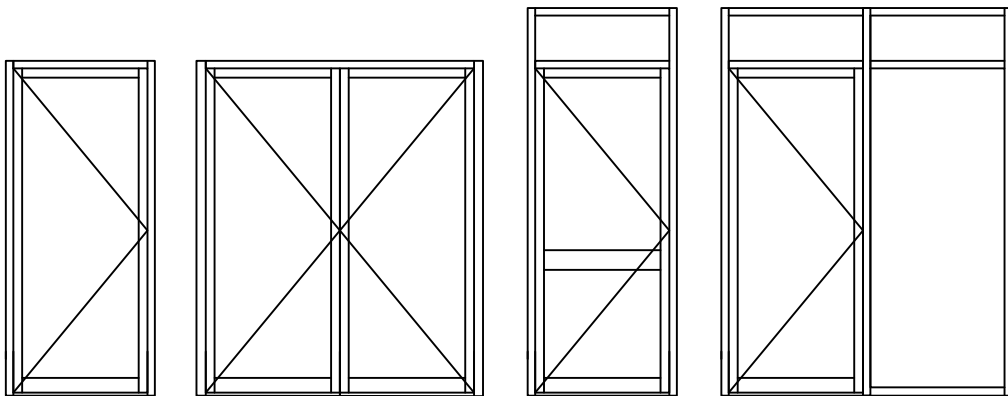
FIXED LITE



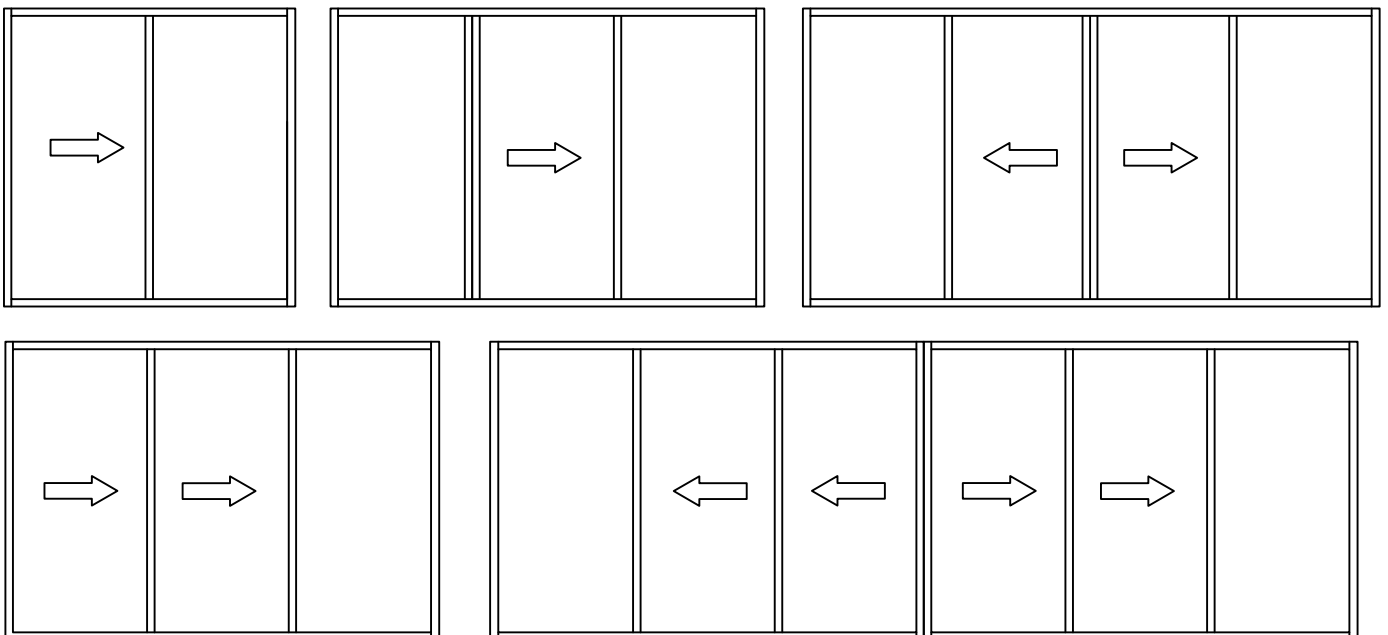
AWNING SASH



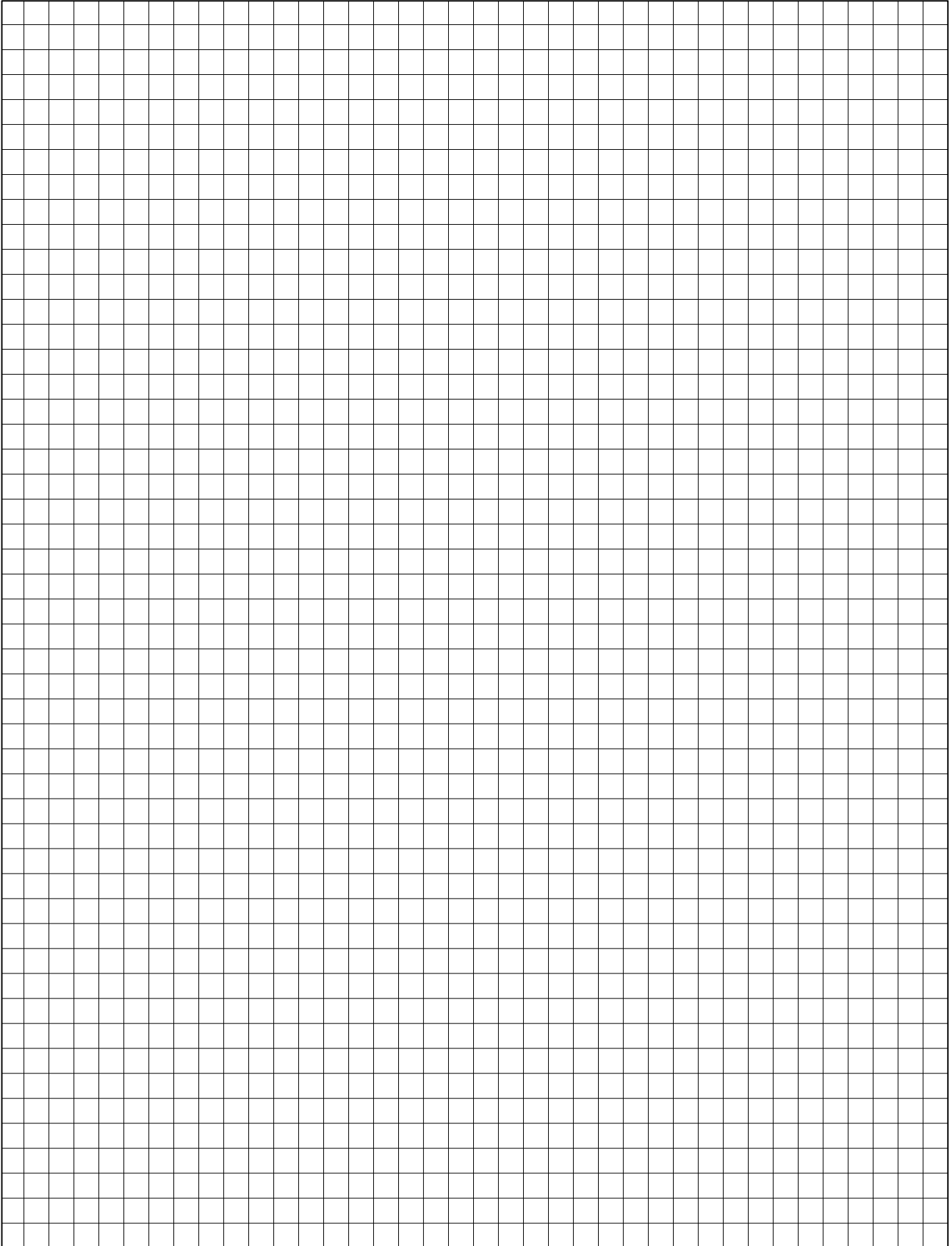
HINGED DOORS



SLIDING DOORS



NOTES:



*path*

*thermal*  *break window system*



# SECTION: A

## *Selection of Extrusions, Hardware and Assembly Details*

**Pages: A01 to A47**

*path*

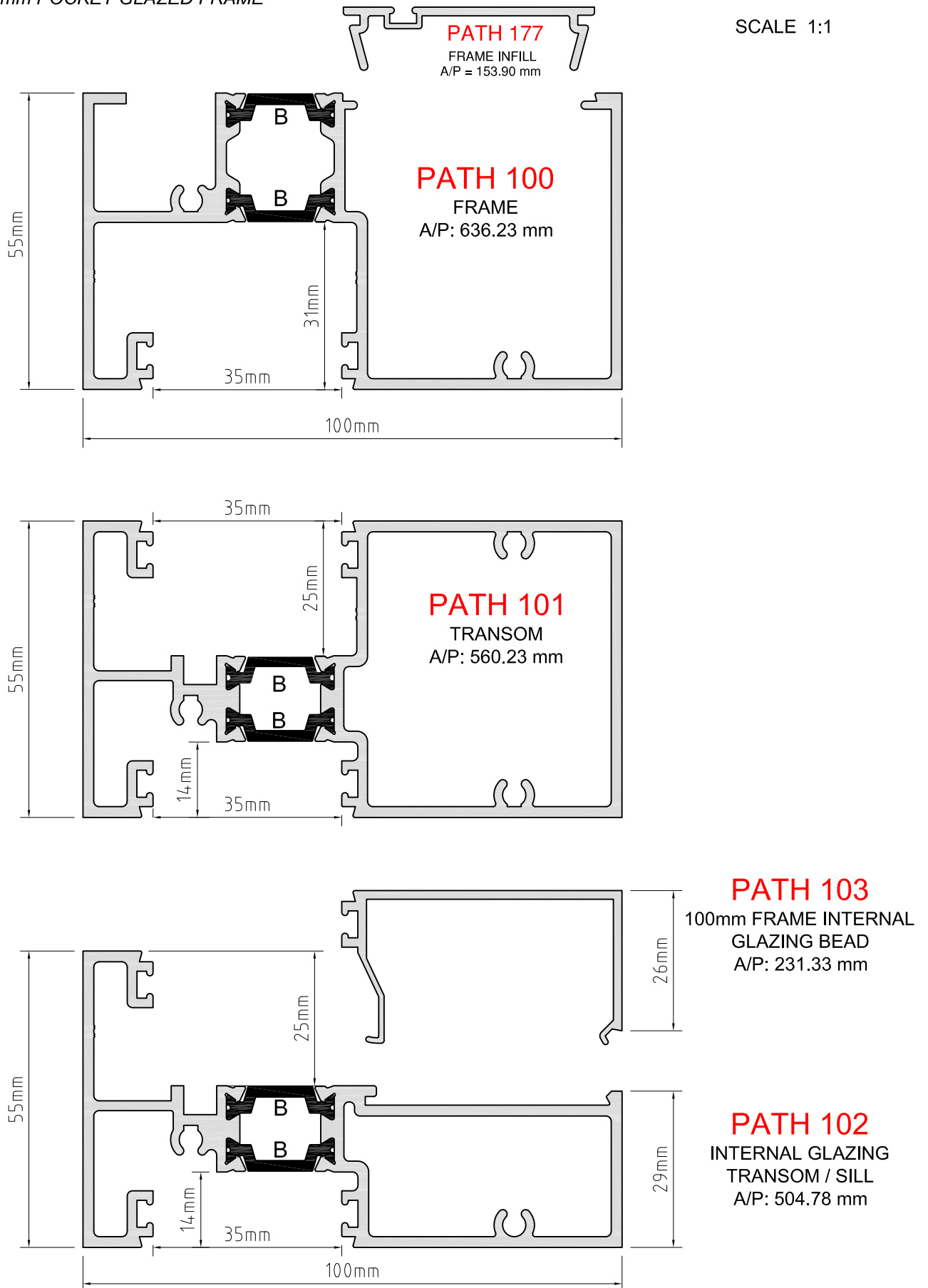
*thermal break window system*

**PAGE - A**

# EXTRUSIONS

100 x 55mm POCKET GLAZED FRAME

SCALE 1:1



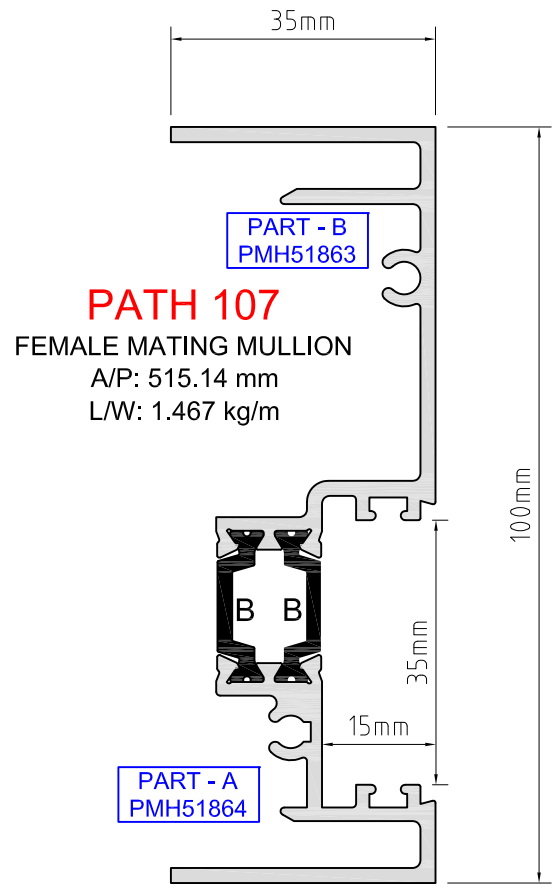
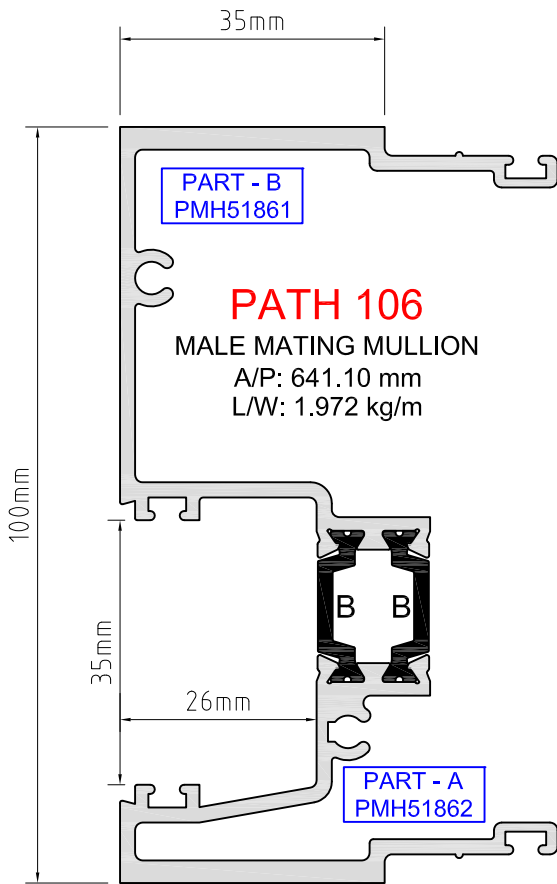
*path*

thermal break window system

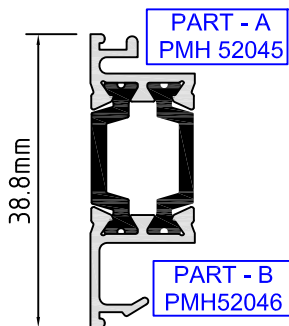
# EXTRUSIONS

100 x 55mm POCKET GLAZED FRAME

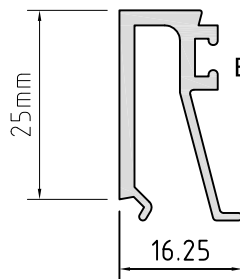
SCALE 1:1



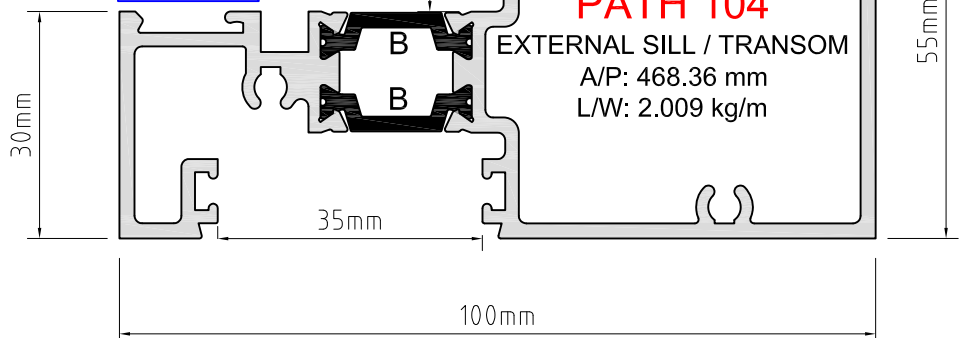
**PATH 143**  
FRAME POCKET FILLER  
A/P: 132.82 mm  
L/W: 0.295kg/m



**PATH 105**  
EXTERNAL GLAZING BEAD  
A/P: 149.22 mm  
L/W: 0.340 kg/m



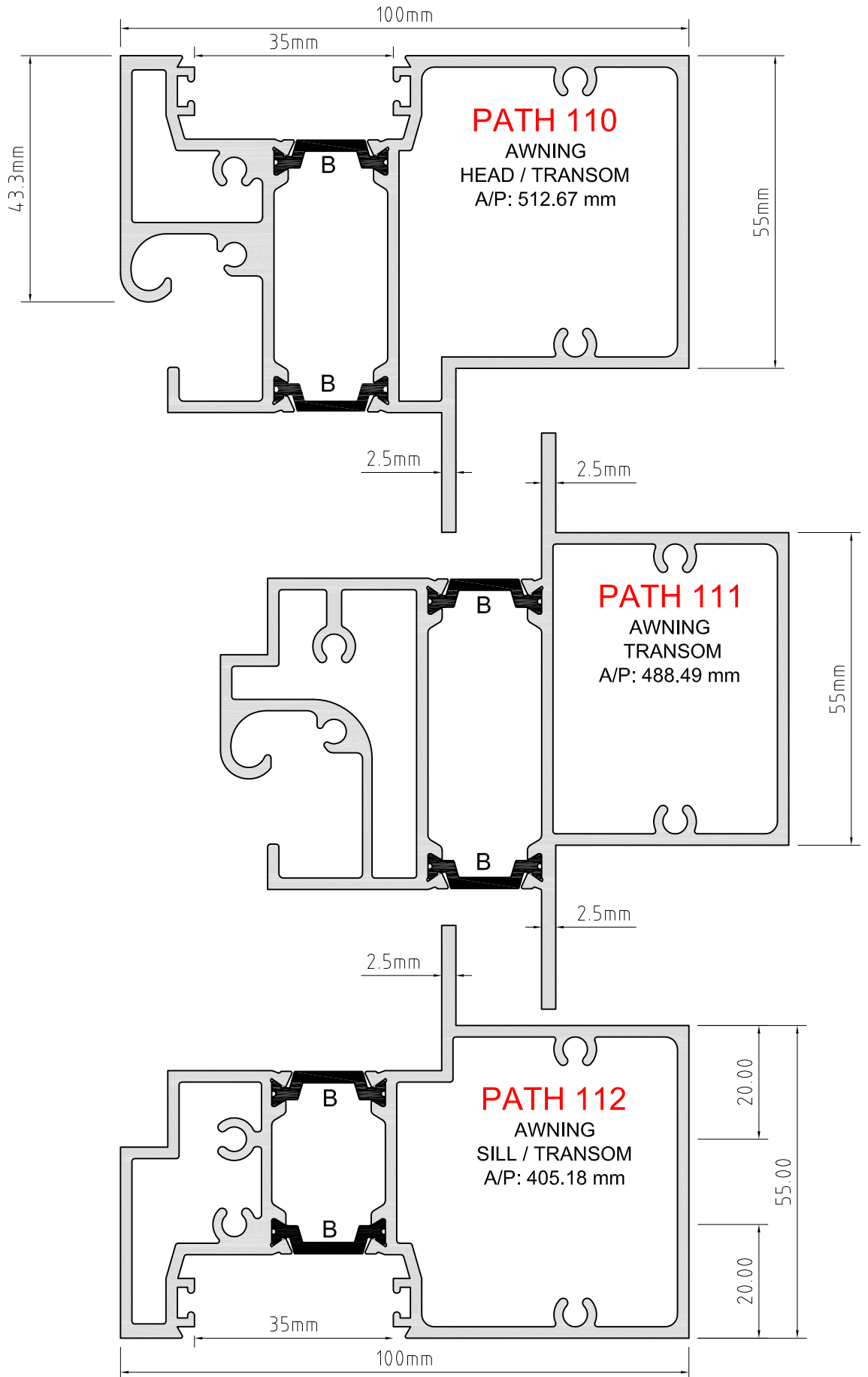
**PART - A**  
PMH51865



# EXTRUSIONS

100 x 55mm POCKET GLAZED FRAME

SCALE 1:1



**path**

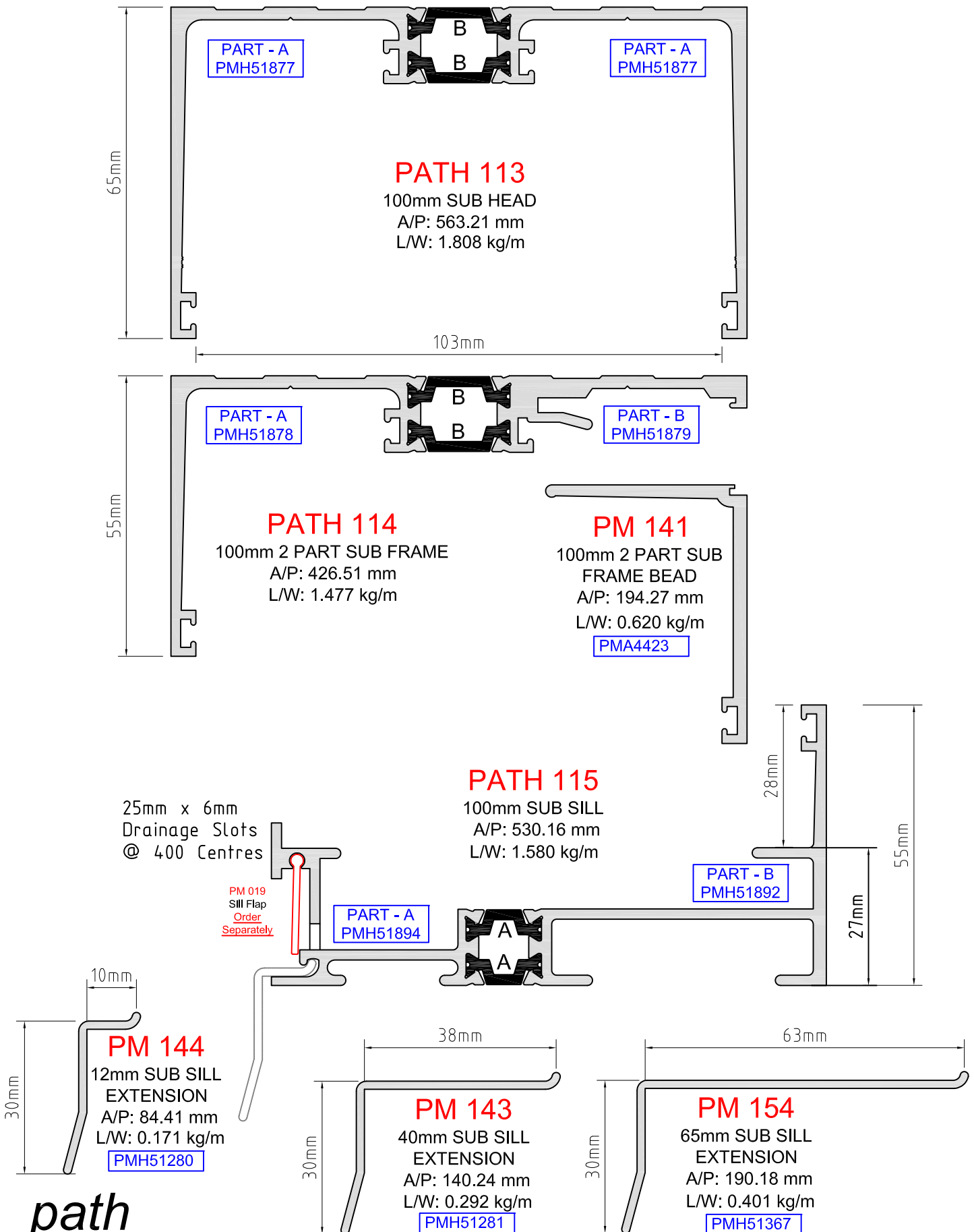
thermal break window system



# EXTRUSIONS

100 x 55mm POCKET GLAZED FRAME

SCALE 1:1

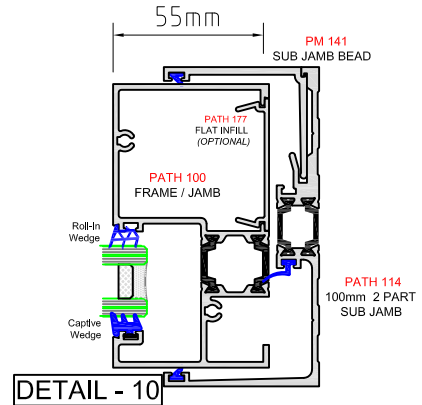
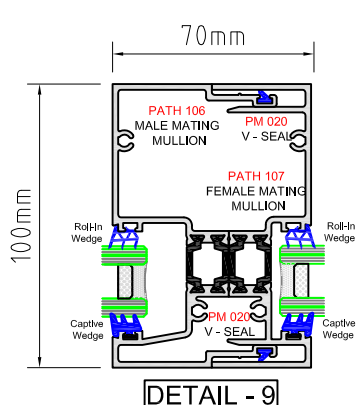
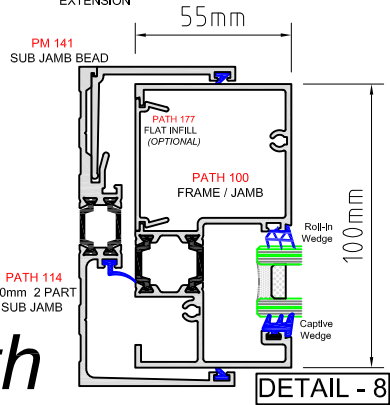
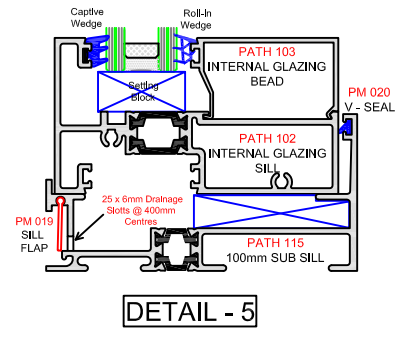
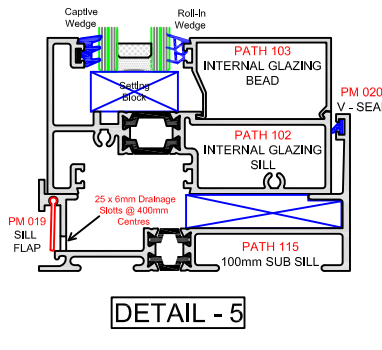
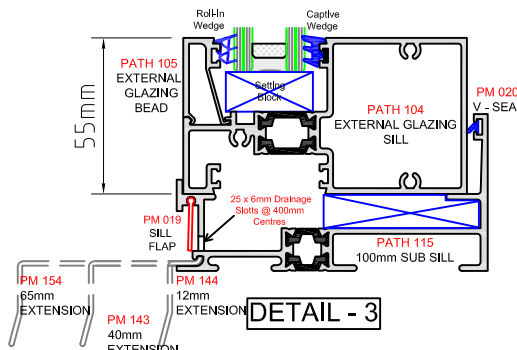
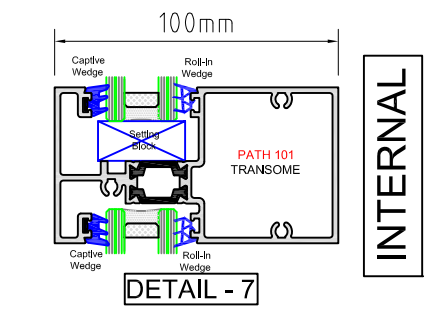
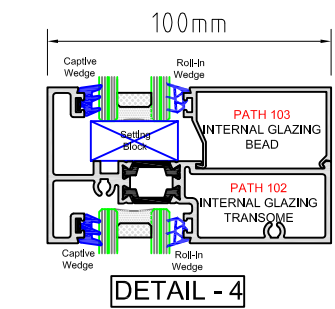
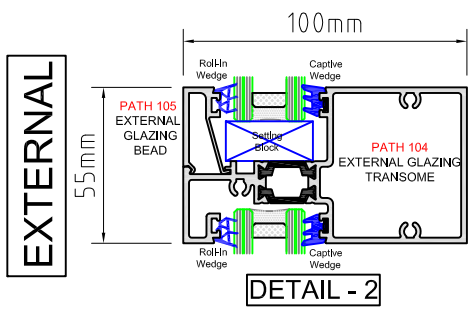
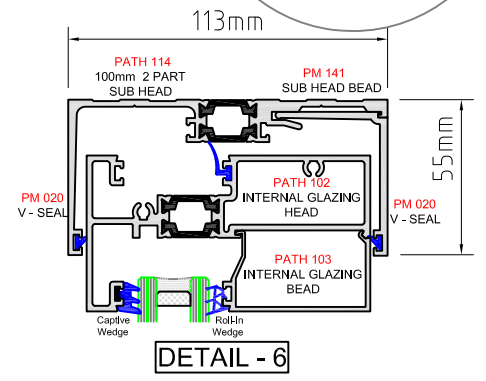
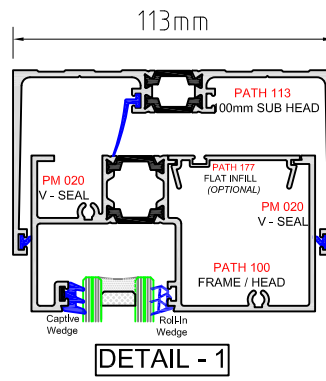
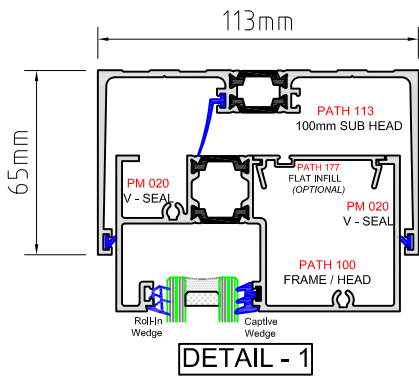
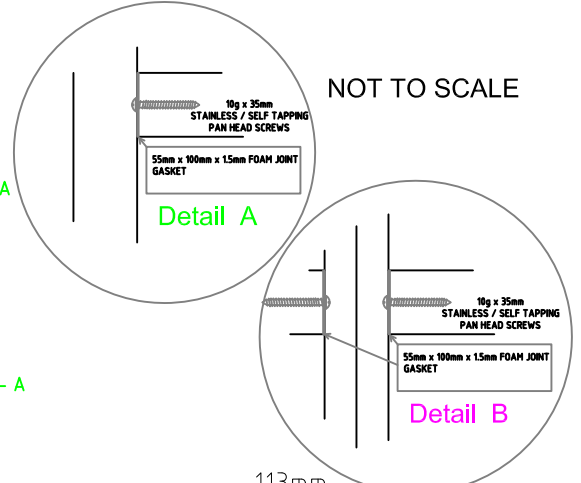
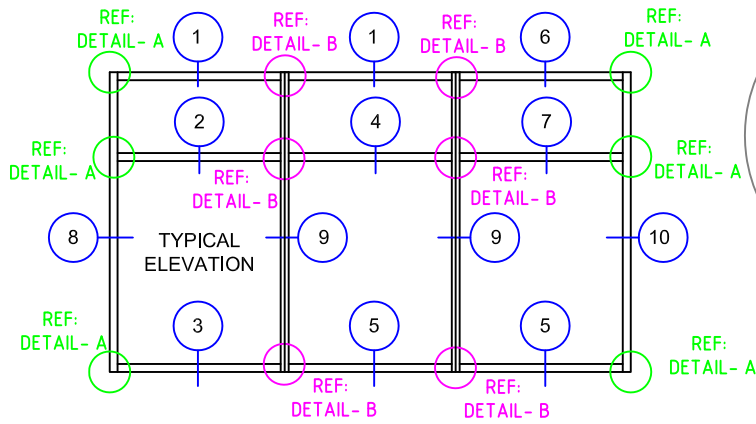


*path*

thermal break window system

# DETAILS

100 x 55mm FRAME



path

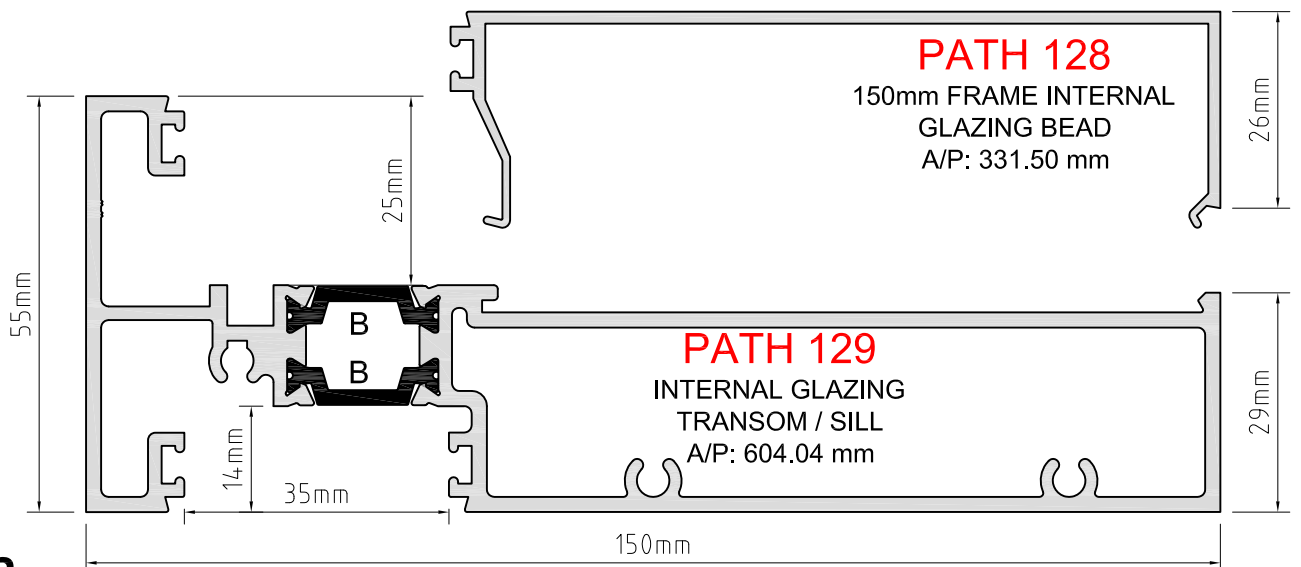
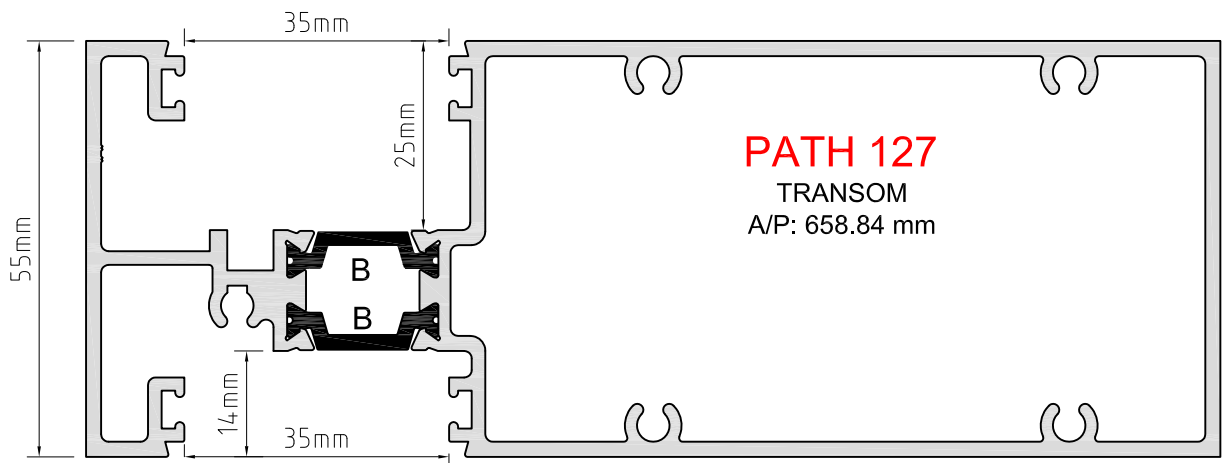
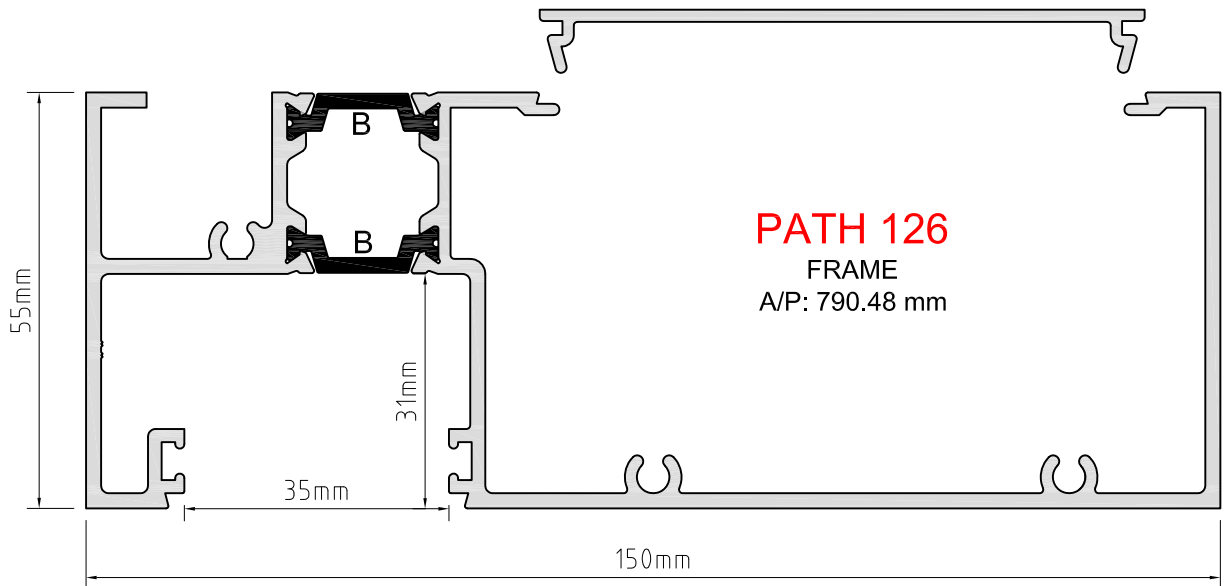
# EXTRUSIONS

150 x 55mm POCKET GLAZED FRAME

**PM 105**

100mm FLAT INFILL  
A/P: 202.91 mm

SCALE 1:1



*path*

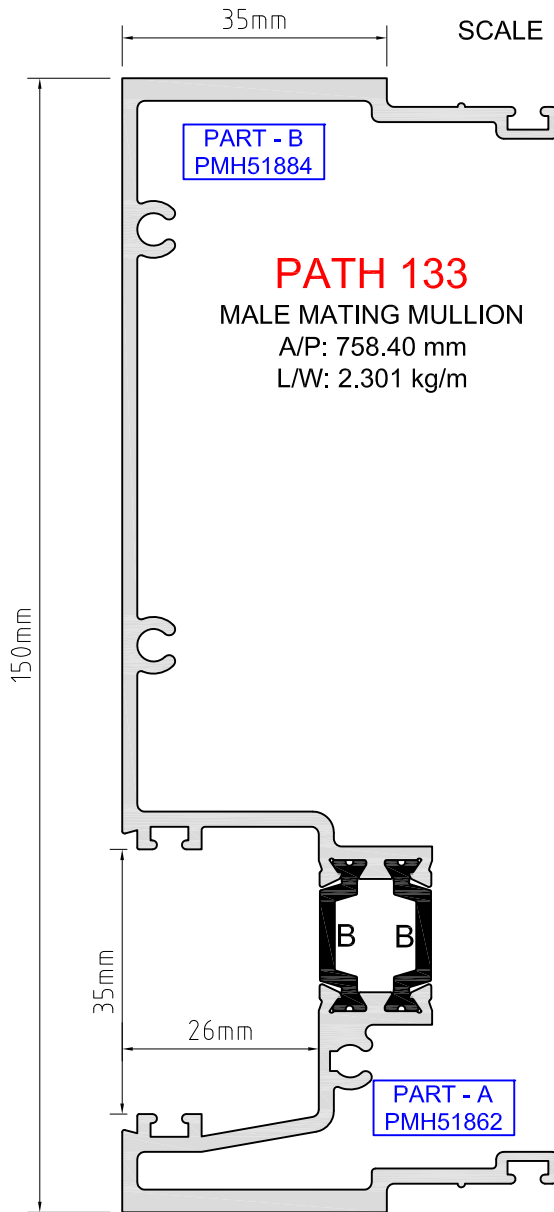
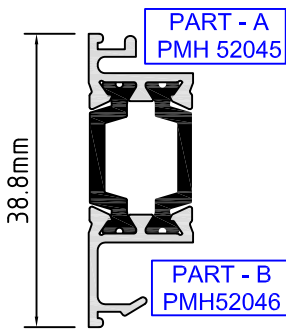
thermal break window system

# EXTRUSIONS

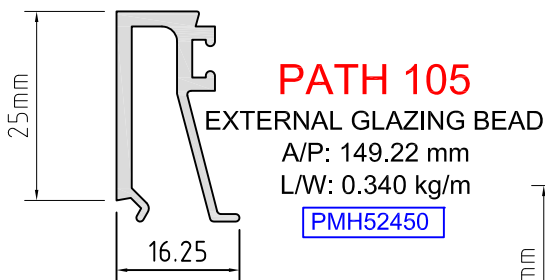
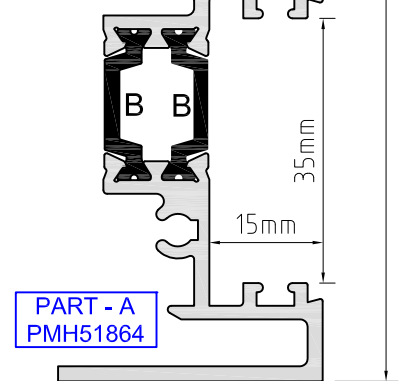
150 x 55mm POCKET GLAZED FRAME

SCALE 1:1

**PATH 143**  
FRAME POCKET FILLER  
A/P: 132.82 mm  
L/W: 0.295kg/m



**PATH 134**  
FEMALE MATING MULLION  
A/P: 633.62 mm  
L/W: 1.778 kg/m

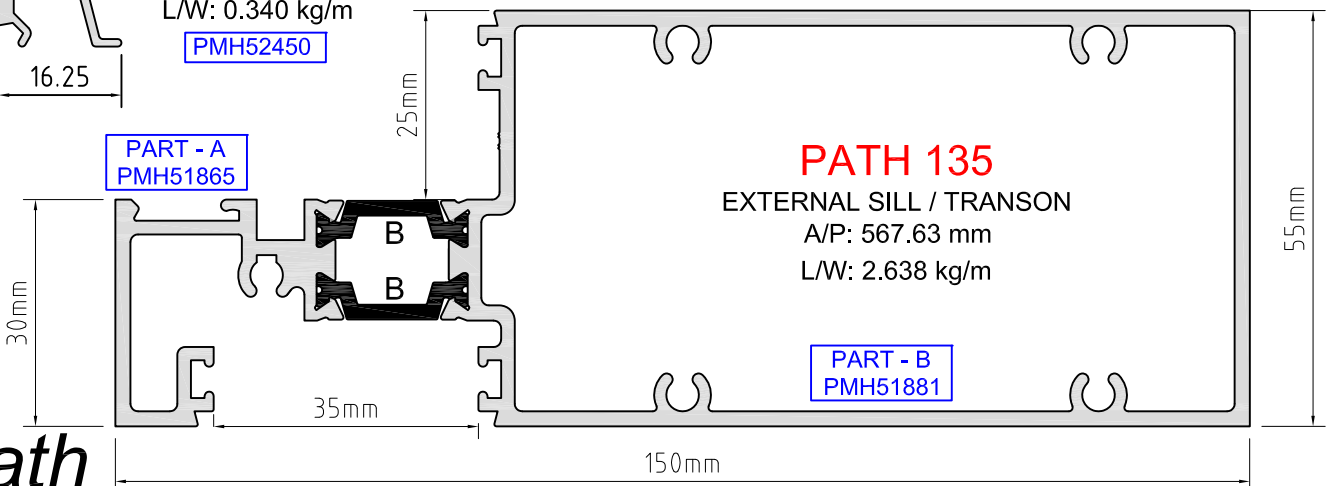


**PATH 105**

EXTERNAL GLAZING BEAD  
A/P: 149.22 mm  
L/W: 0.340 kg/m

PMH52450

PART - A  
PMH51865



**PATH 135**

EXTERNAL SILL / TRANSON  
A/P: 567.63 mm  
L/W: 2.638 kg/m

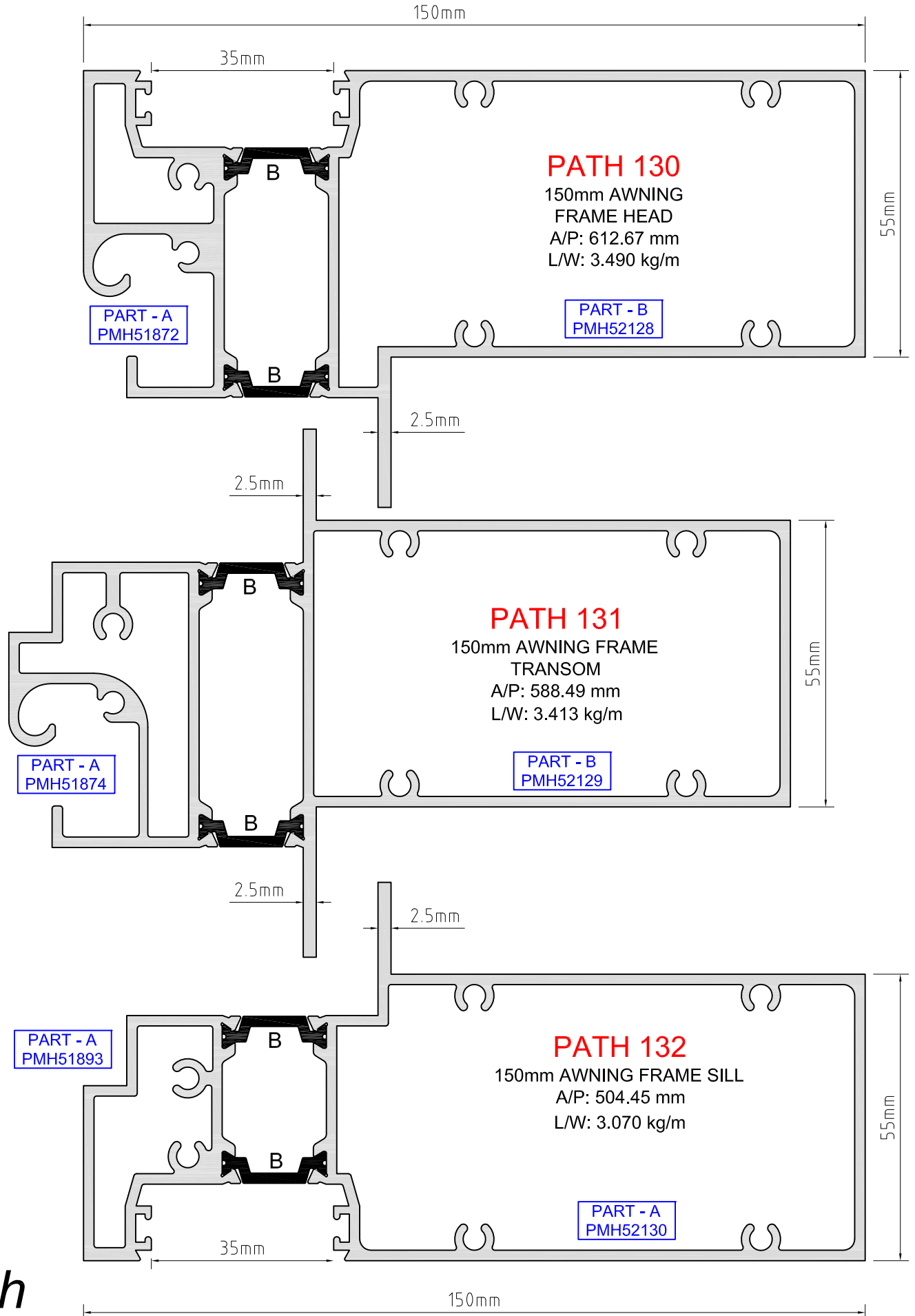
PART - B  
PMH51881

*path*

# EXTRUSIONS

150 x 55mm POCKET GLAZED FRAME

SCALE 1:1

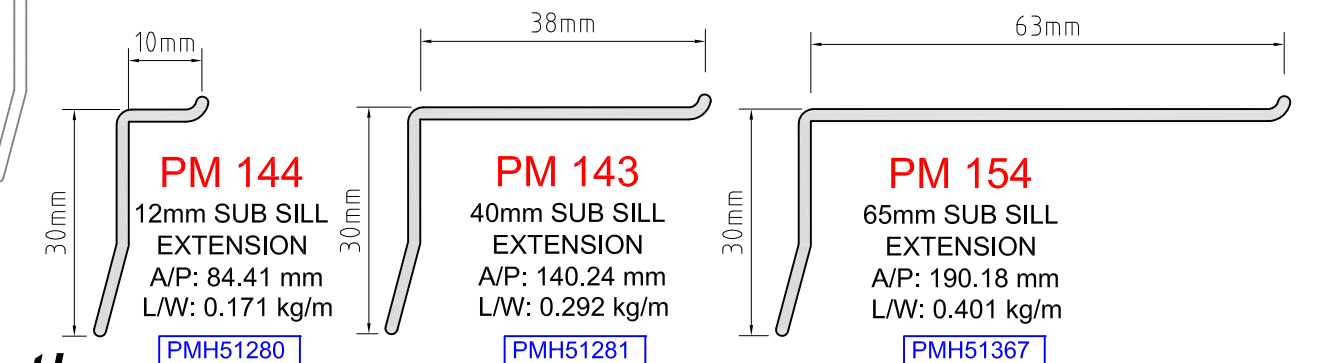
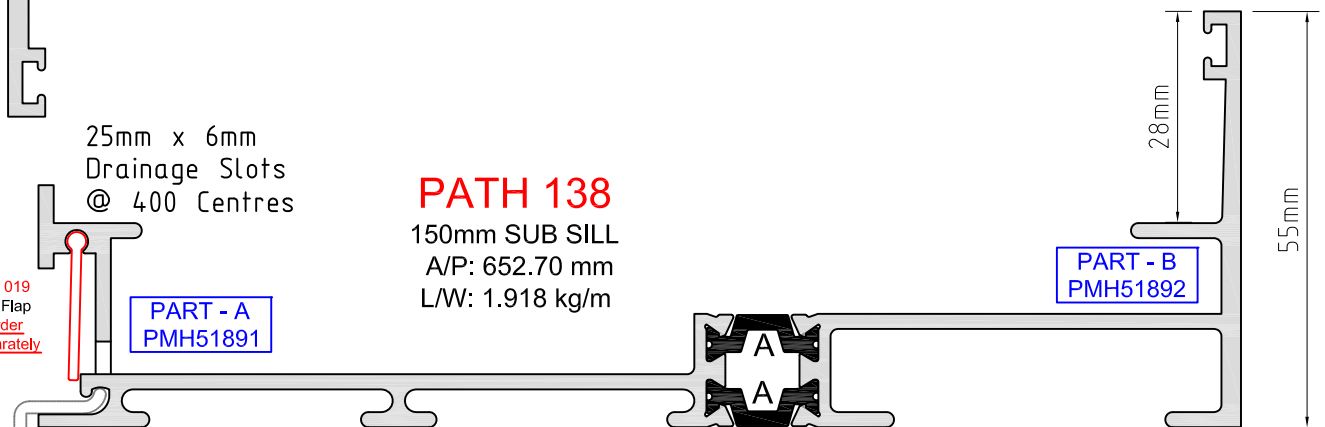
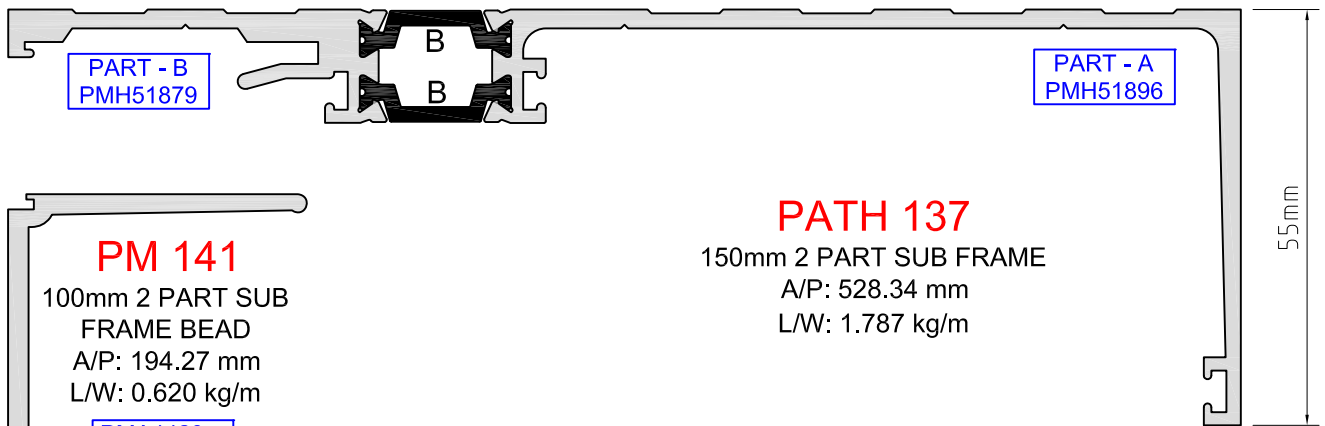
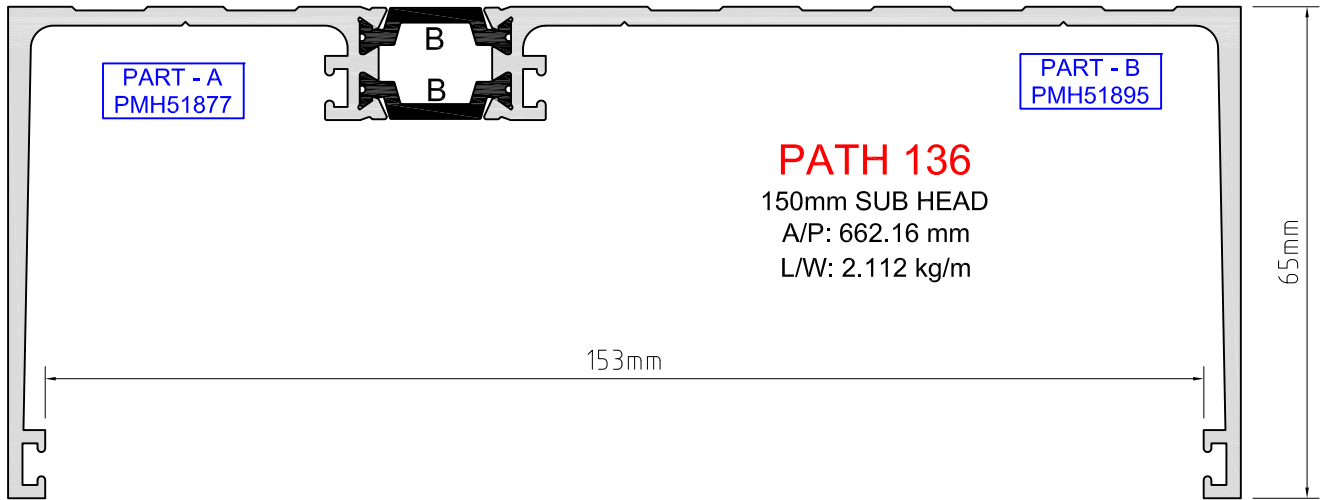


*path*

# EXTRUSIONS

150 x 55mm POCKET GLAZED FRAME

SCALE 1:1



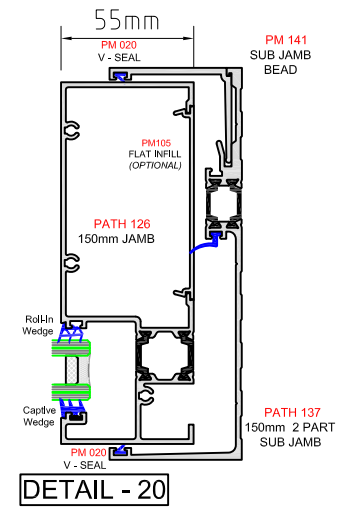
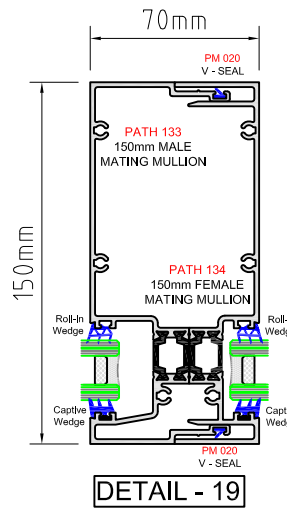
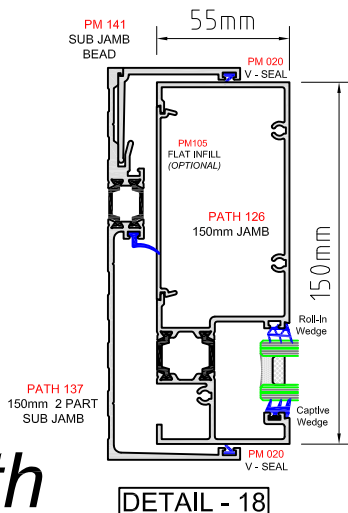
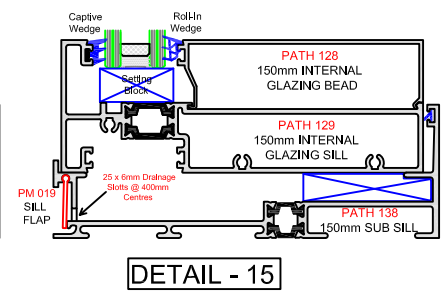
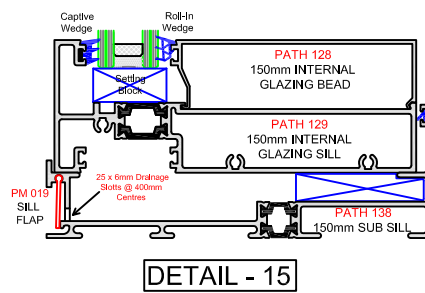
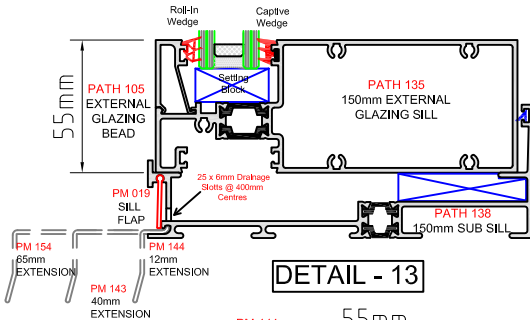
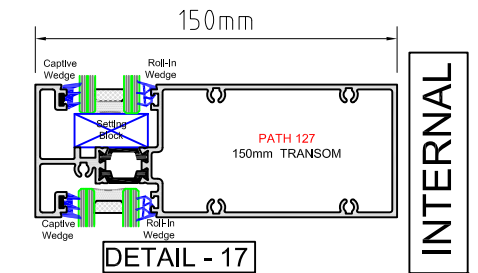
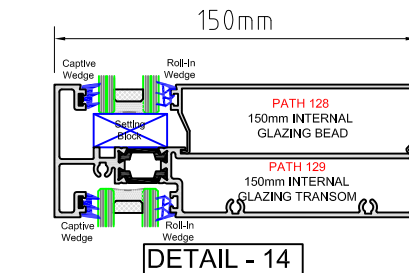
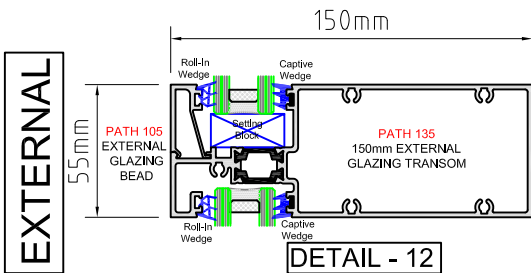
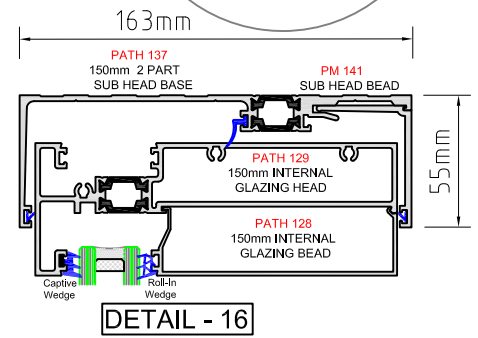
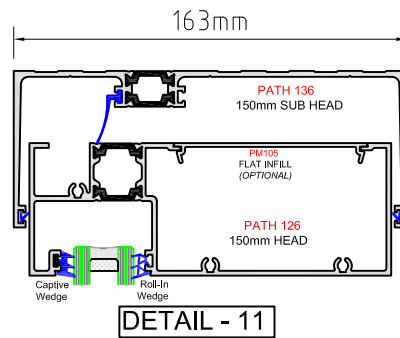
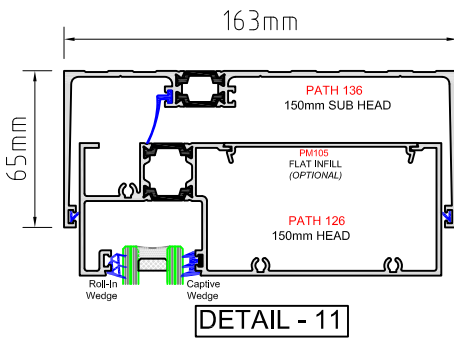
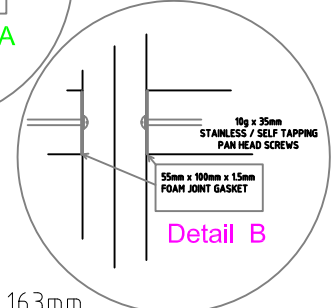
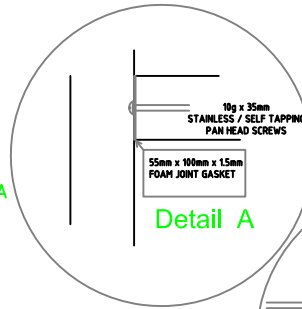
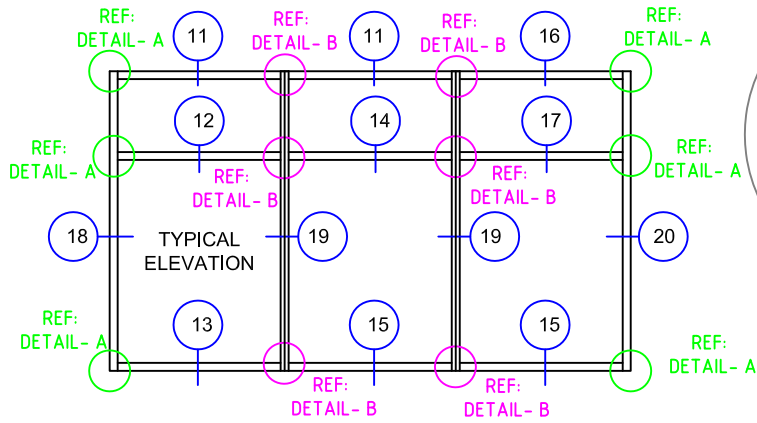
*path*

thermal break window system

# DETAILS

100 x 55mm FRAME

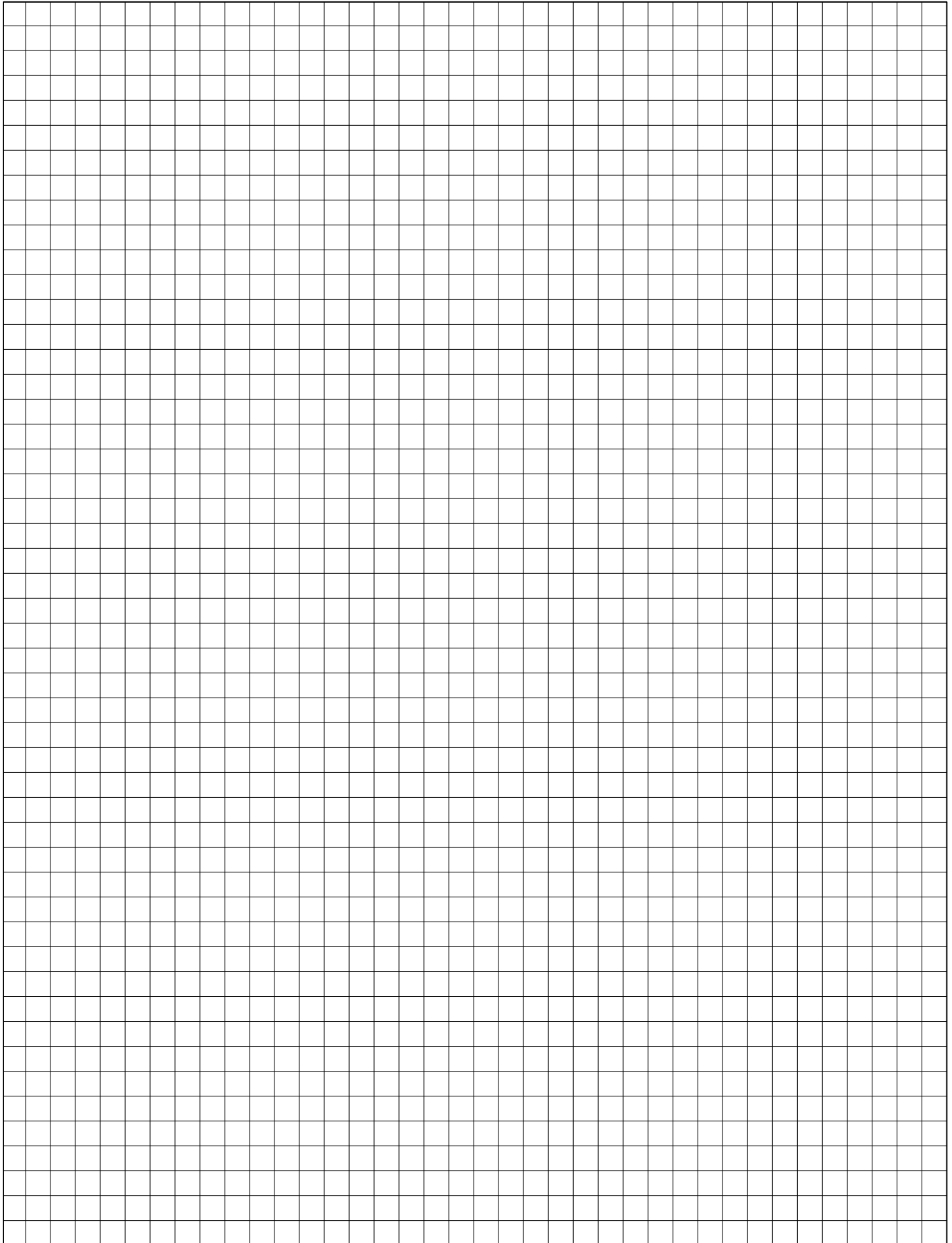
NOT TO SCALE



**path**

thermal break window system

NOTES:



*path*

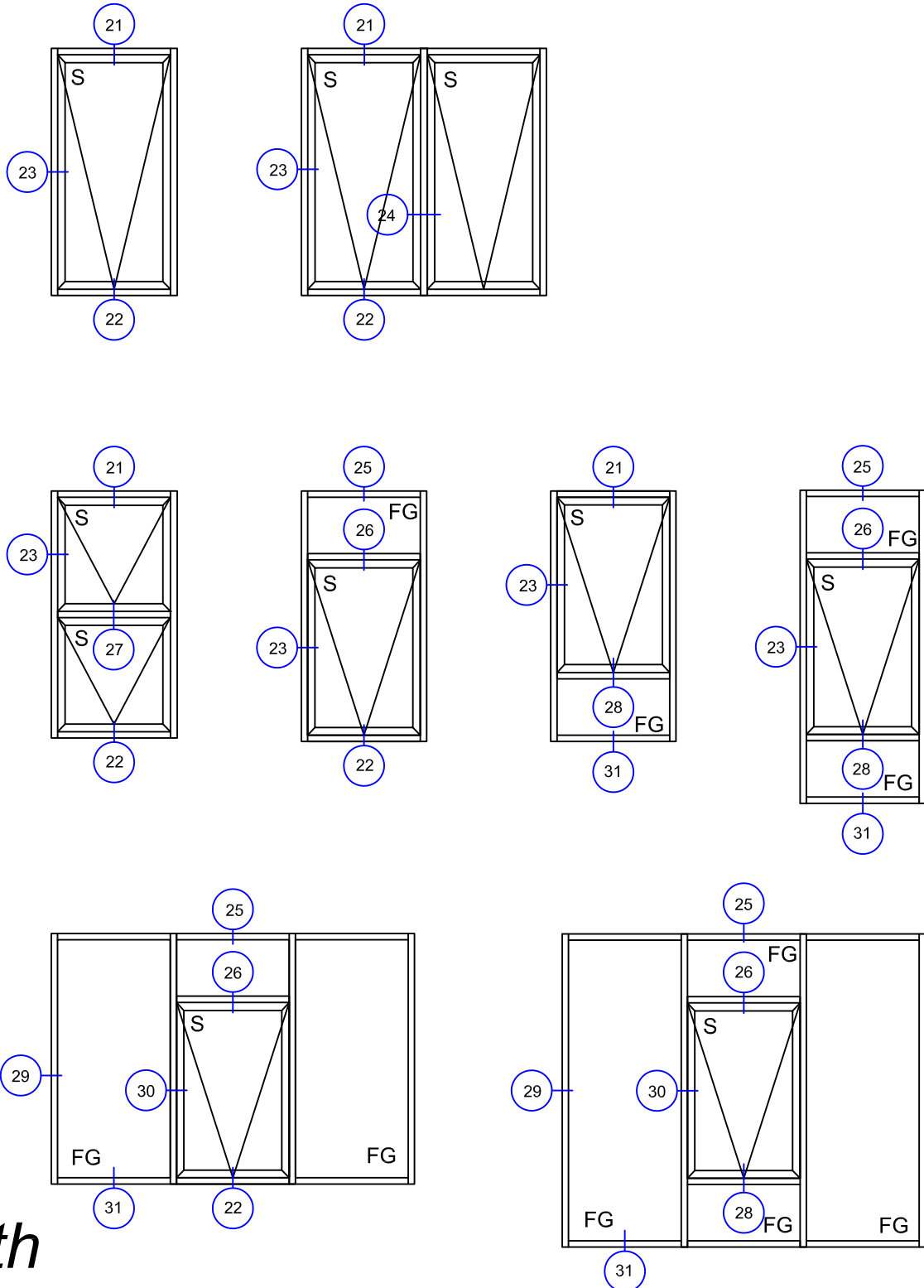
thermal  break window system



# 50mm TOP HINGED AWNING SASH

## TYPICAL CONFIGURATIONS

(APPLIES TO BOTH 100mm and 150mm  
FRAMING SYSTEMS)



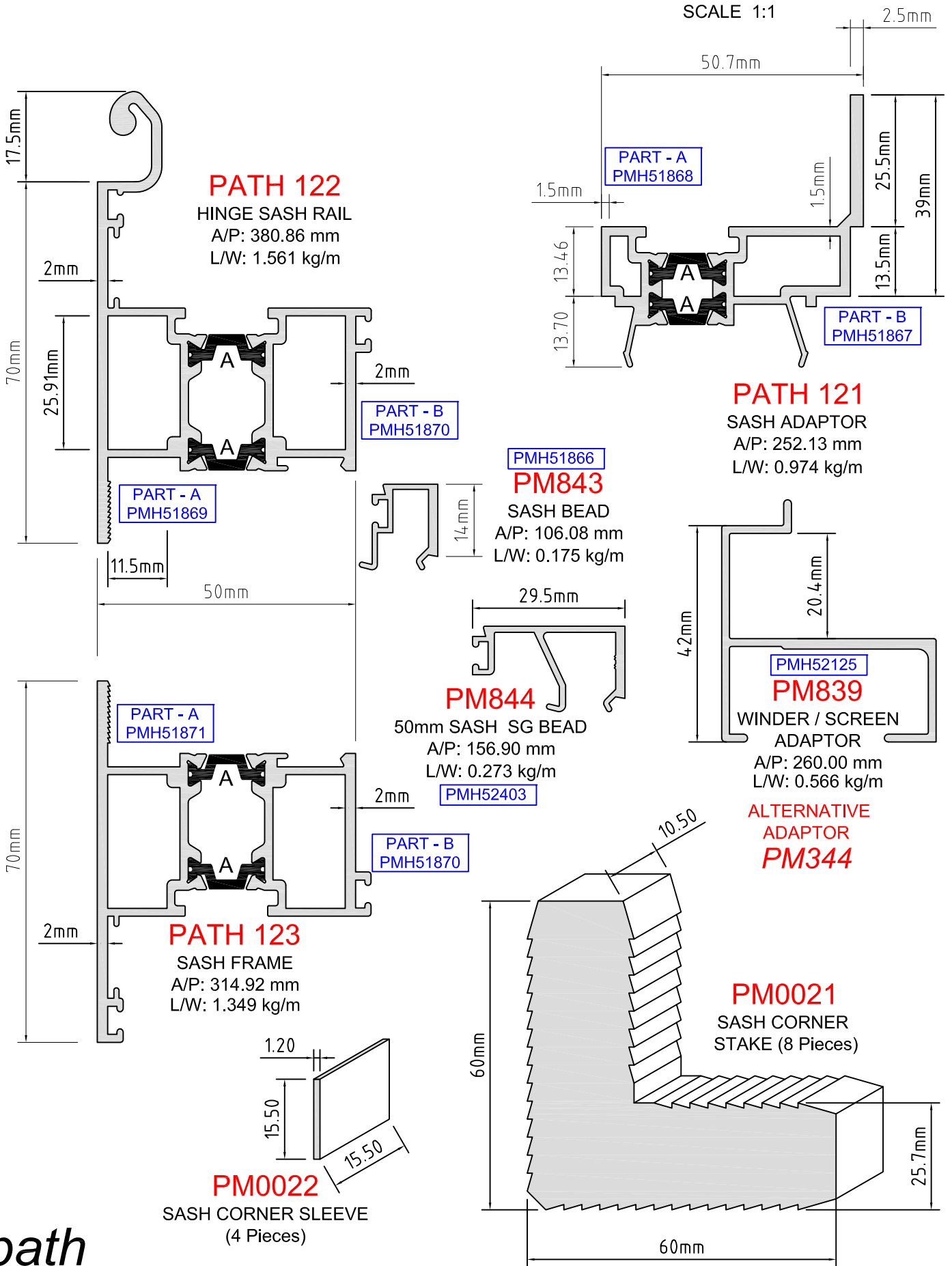
**path**

thermal break window system

# EXTRUSIONS

50mm TOP HINGED AWNING SASH

SCALE 1:1



**path**

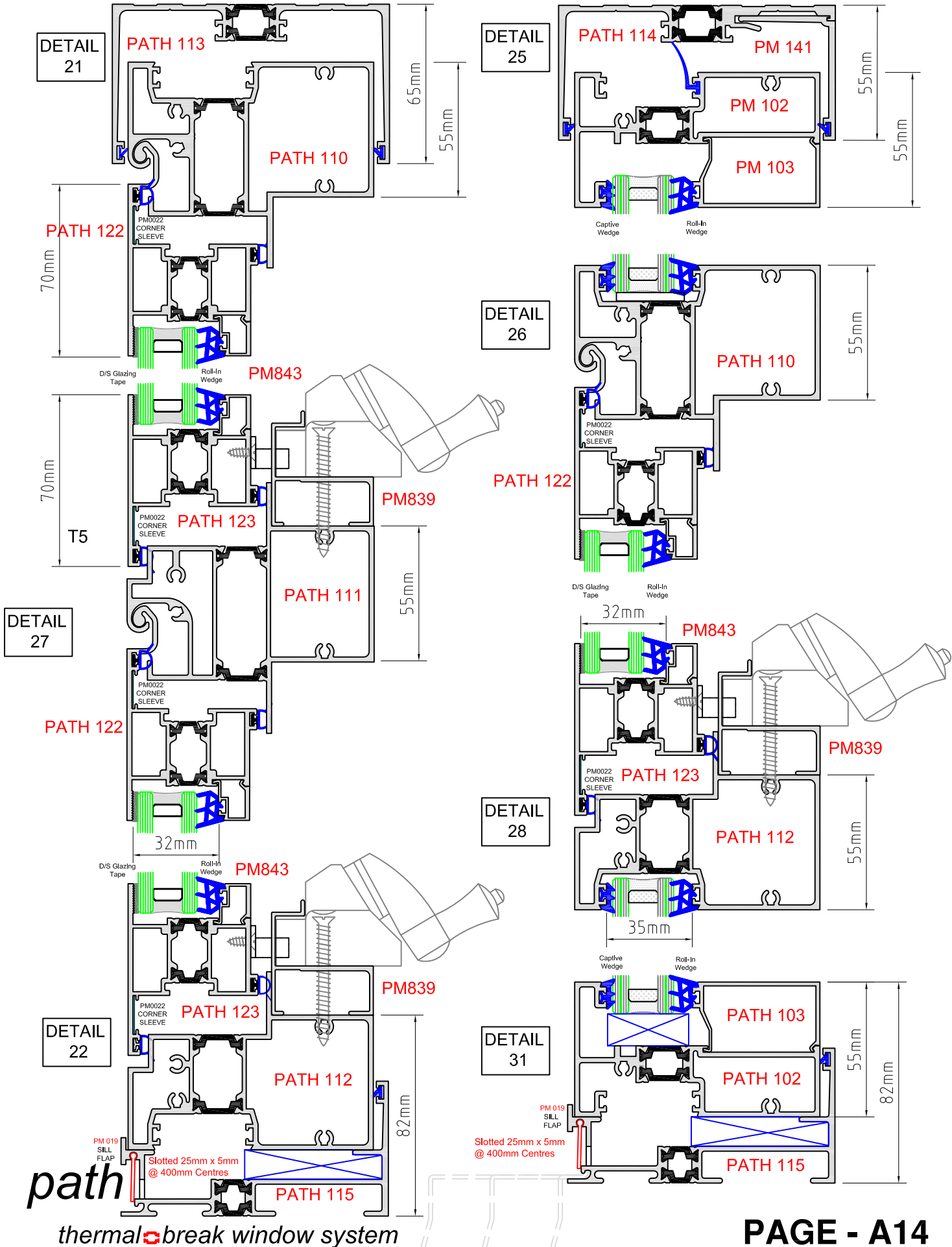
thermal break window system

# DETAILS

50mm TOP HINGED AWING SASH

100mm x 55mm FRAME

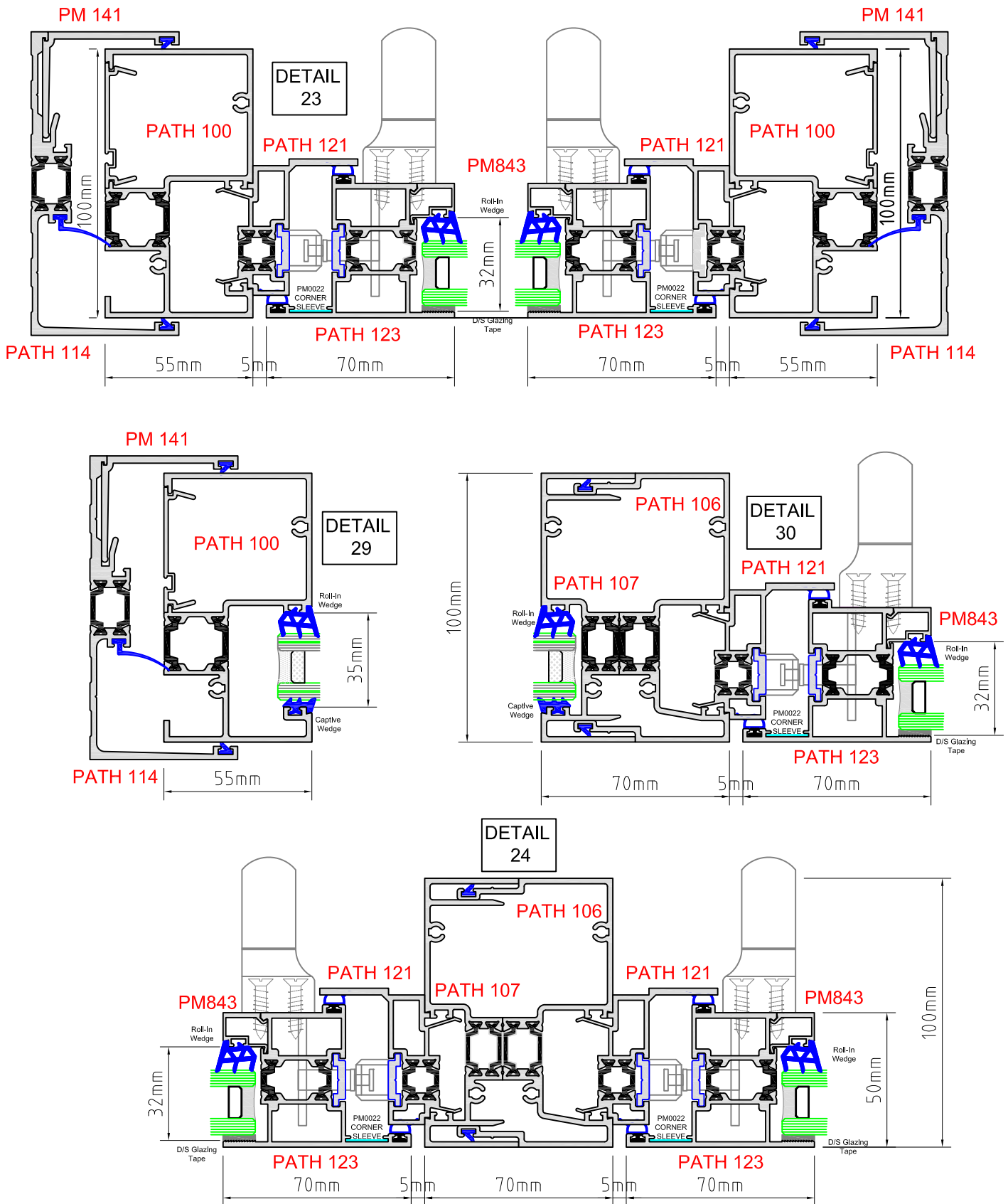
SCALE 1:2



# DETAILS

50mm TOP HINGED AWING SASH  
100mm x 55mm FRAME

SCALE 1:2



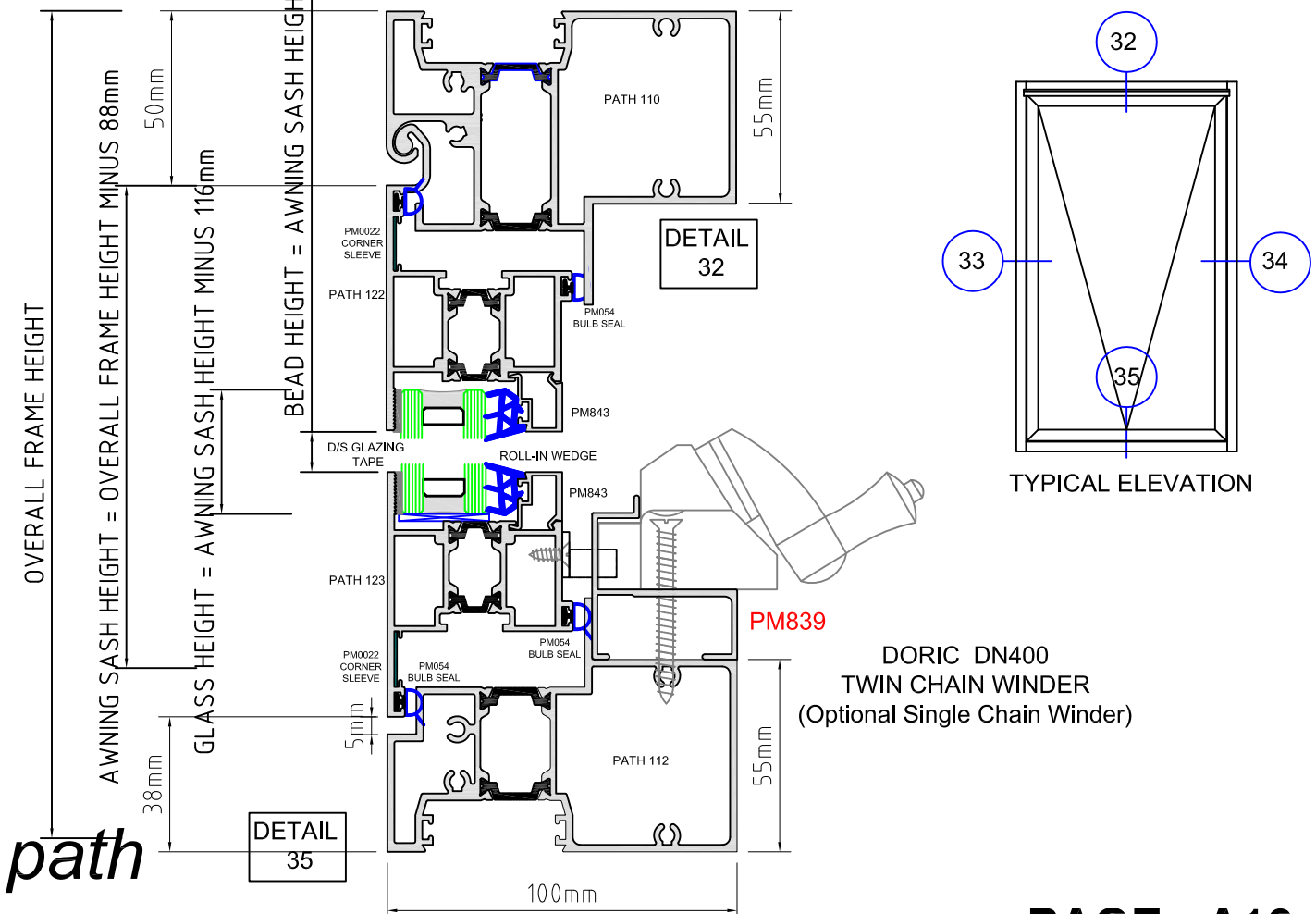
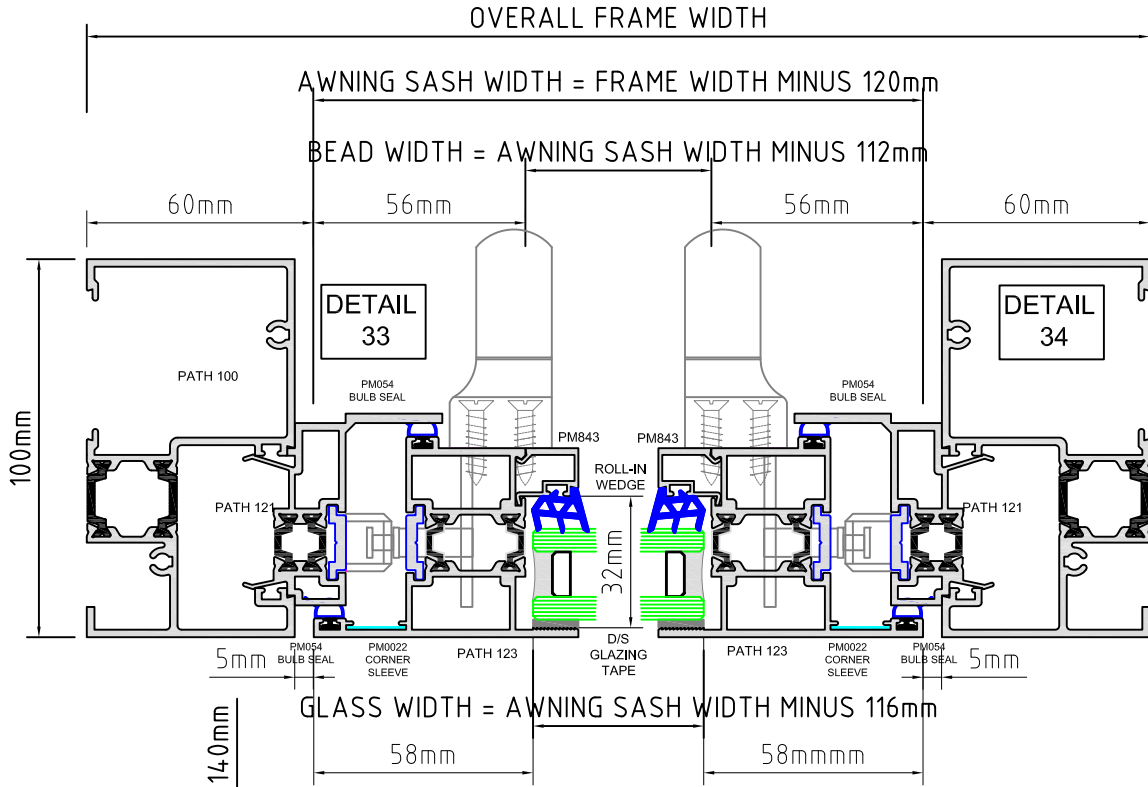
*path*

thermal break window system

# DETAILS

50mm TOP HINGED AWING SASH  
100mm x 55mm FRAME

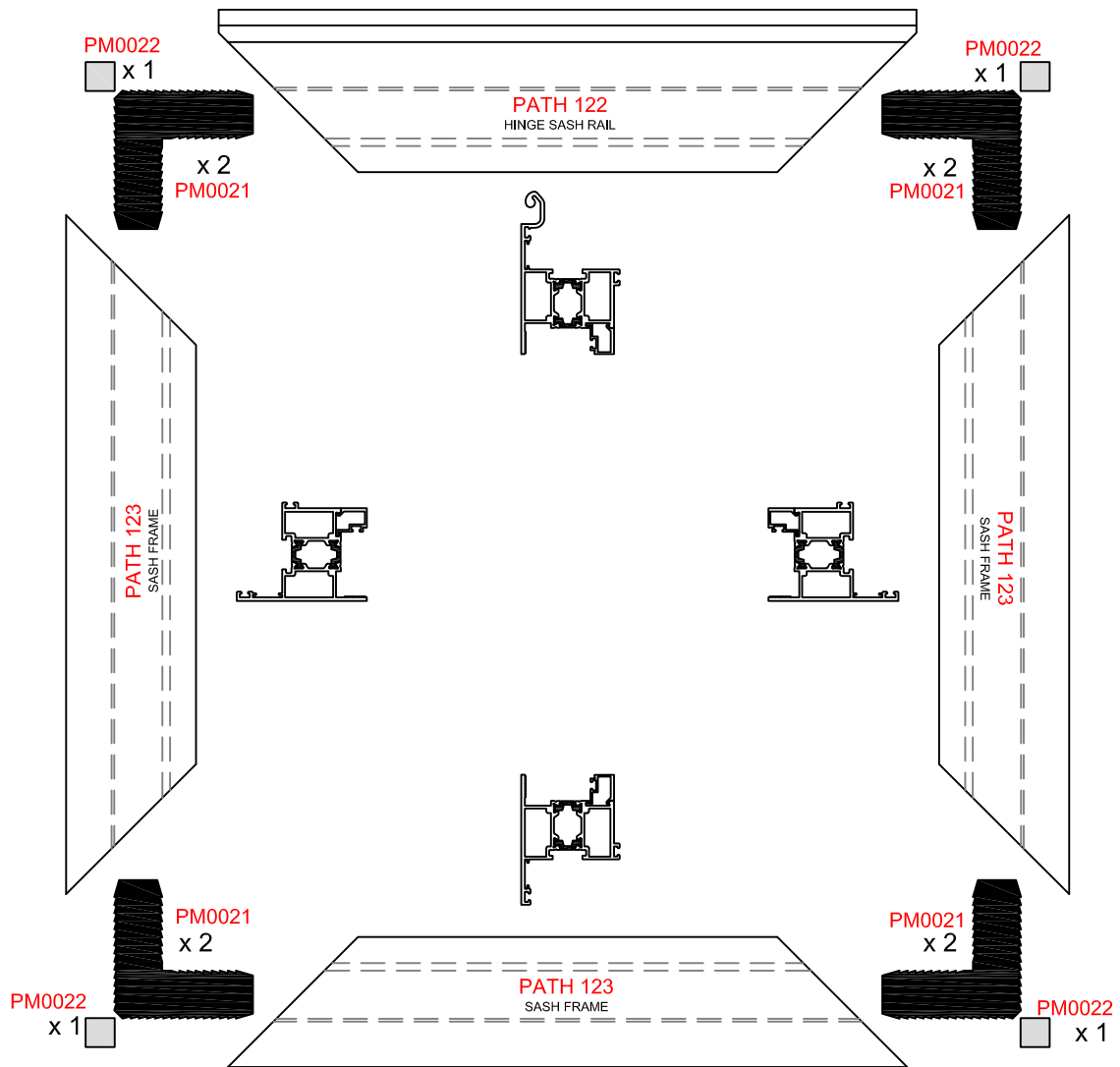
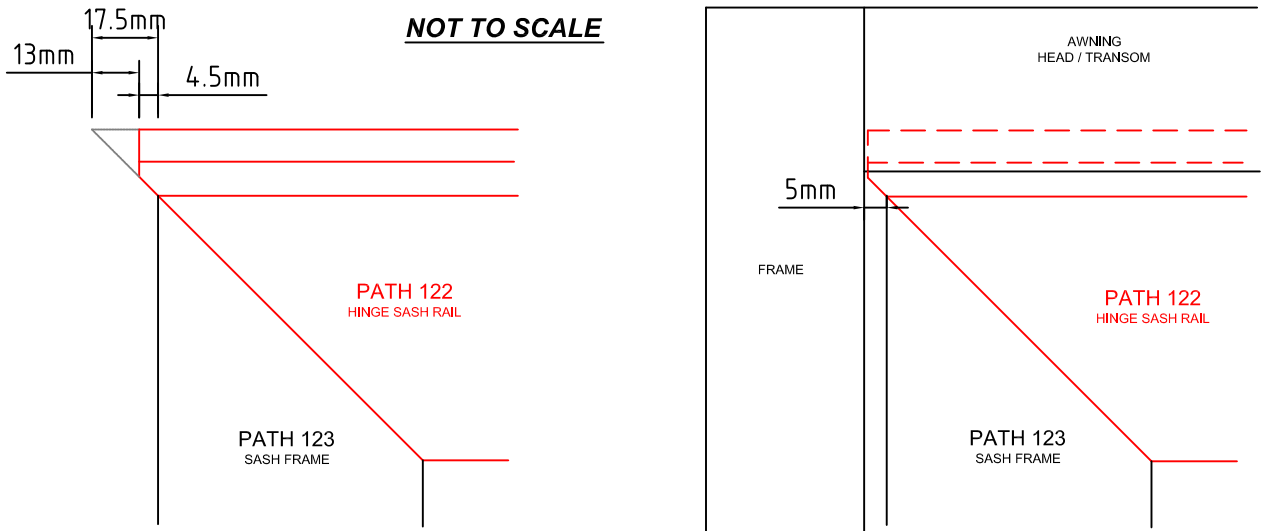
SCALE 1:2



**path**

thermal break window system

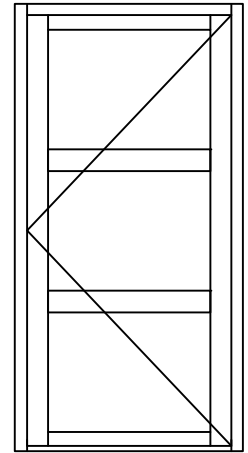
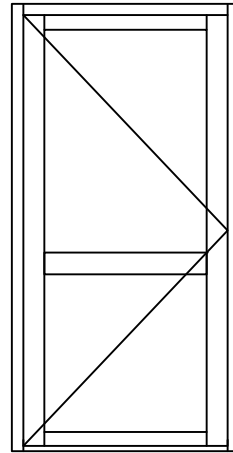
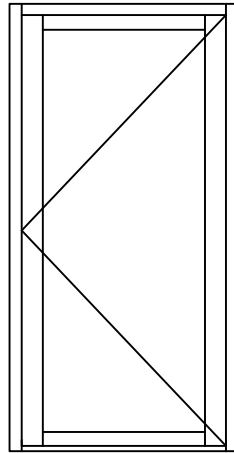
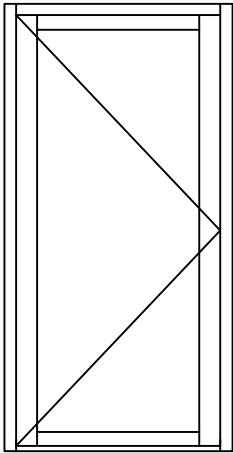
# AWNING SASH ASSEMBLY DETAILS



# 120mm WIDE STILE HINGED DOOR

## TYPICAL CONFIGURATIONS

(APPLIES TO BOTH 100mm and 150mm  
FRAMING SYSTEMS)



### LEFT HAND HINGED

- OPEN IN
- OPEN OUT

### RIGHT HAND HINGED

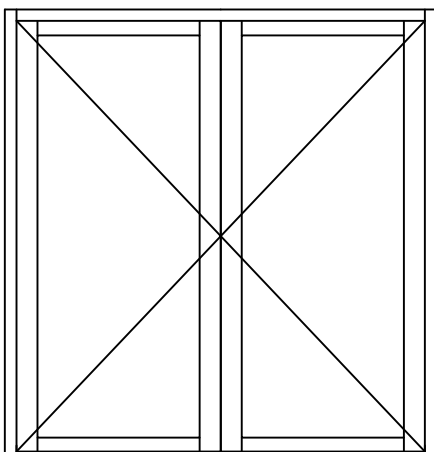
- OPEN IN
- OPEN OUT

### LEFT HAND HINGED

- OPEN IN
- OPEN OUT

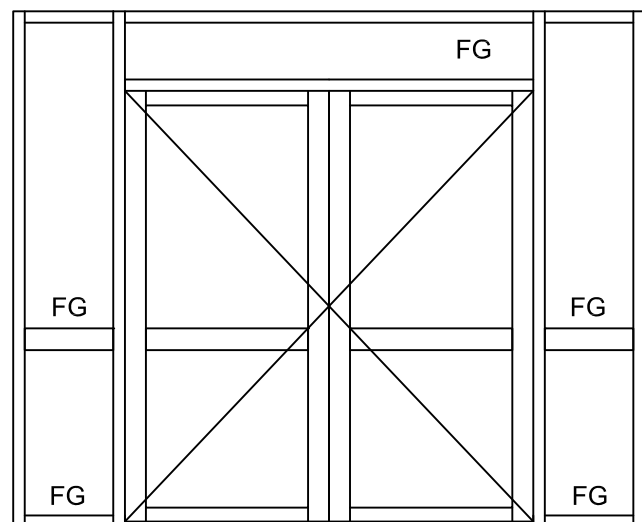
### RIGHT HAND HINGED

- OPEN IN
- OPEN OUT



### DOUBLE PANEL HINGED DOORS

- OPEN IN
- OPEN OUT



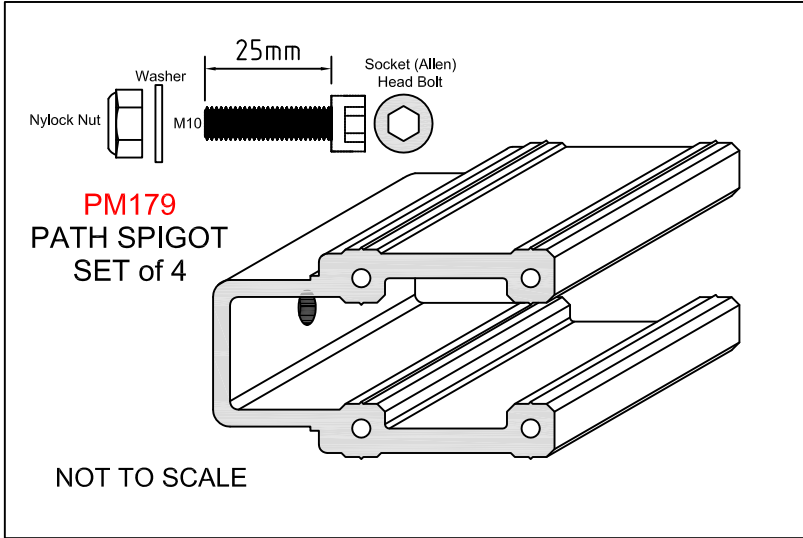
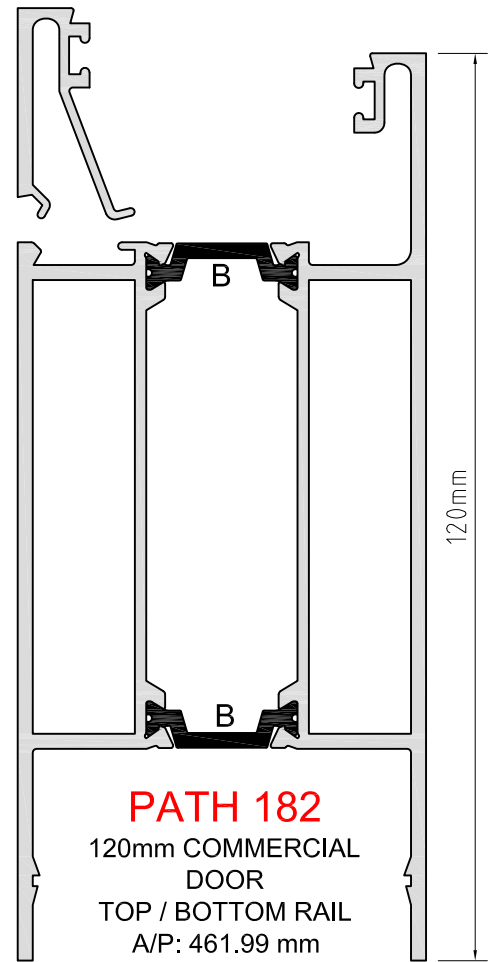
RECOMMENDED MAX WIDTH = 2000mm

**path**

thermal break window system

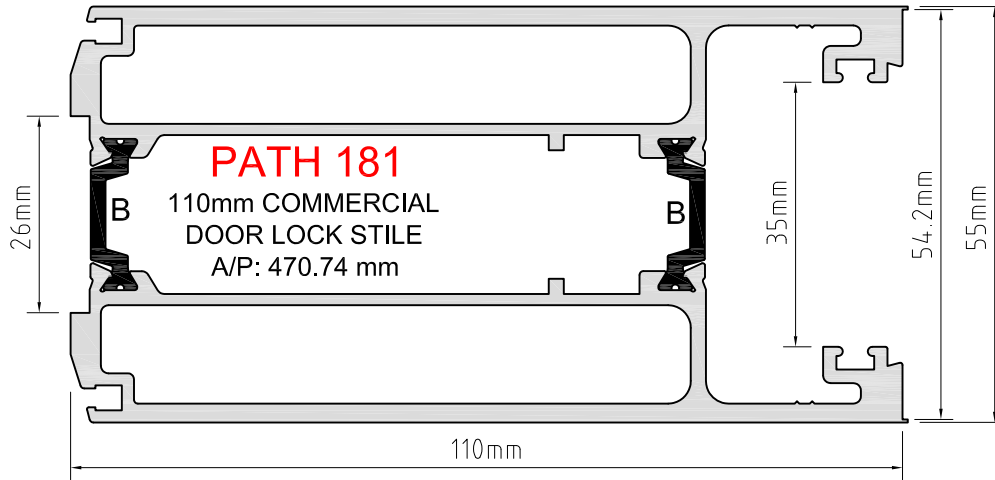


**PATH 180**  
COMMERCIAL  
DOOR BEAD  
A/P: 142.44 mm



**PM179**  
PATH SPIGOT  
SET of 4

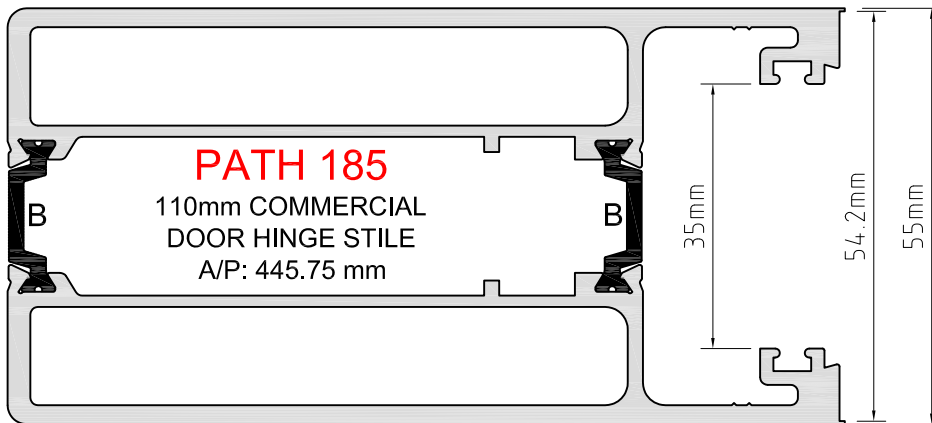
NOT TO SCALE



**PATH 181**

110mm COMMERCIAL  
DOOR LOCK STILE  
A/P: 470.74 mm

SCALE 1:1



**PATH 185**

110mm COMMERCIAL  
DOOR HINGE STILE  
A/P: 445.75 mm

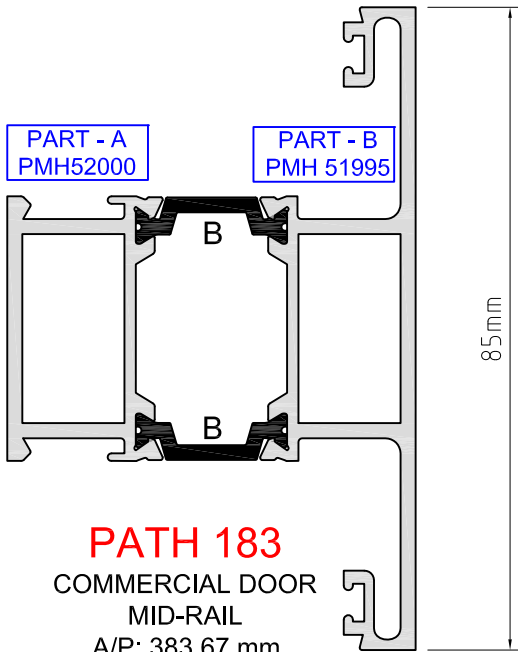
*path*

thermal break window system

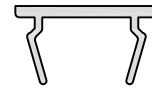


# EXTRUSIONS

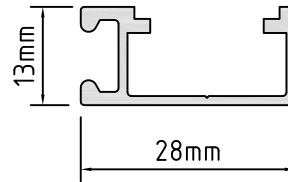
HINGED DOOR



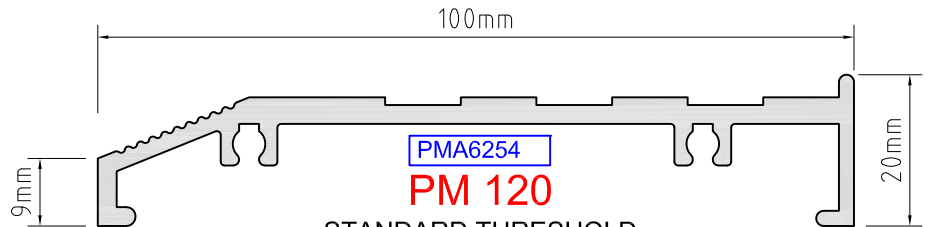
**PATH 183**  
COMMERCIAL DOOR  
MID-RAIL  
A/P: 383.67 mm  
L/W: 1.654 kg/m



PMH 51973  
**PM 721**  
UNIVERSAL DOOR  
STOP BEAD  
A/P: 77.61 mm  
L/W: 0.124 kg/m

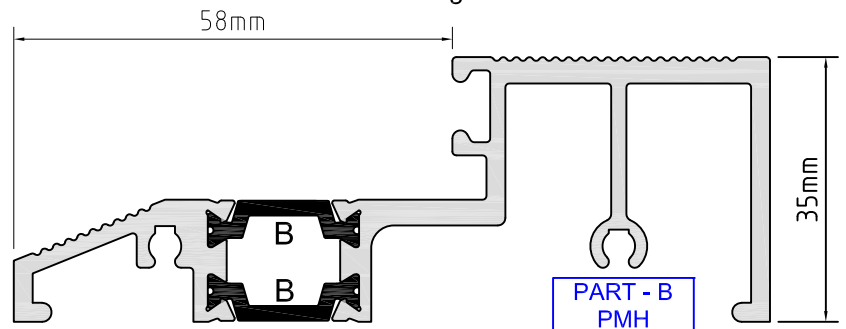
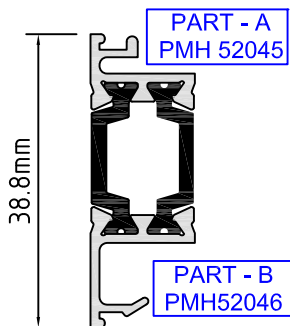


PMH51974  
**PM 722**  
UNIVERSAL DOOR  
STOP BASE  
A/P: 131.36 mm  
L/W: 0.255 kg/m



PMA6254  
**PM 120**  
STANDARD THRESHOLD  
A/P: 315.05 mm  
L/W: 1.098 kg/m

**PATH 143**  
FRAME POCKET FILLER  
A/P: 132.82 mm  
L/W: 0.295kg/m

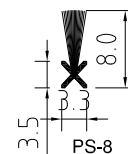


**PATH 184**  
STEPPED THRESHOLD  
A/P: 479.63 mm  
L/W: 1.781 kg/m

*\*NON STOCKED ITEM (Use PM120)*



**PM 021**  
DOOR STOP  
BULB SEAL



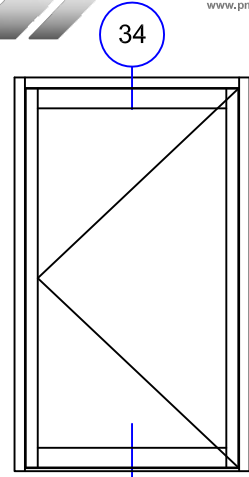
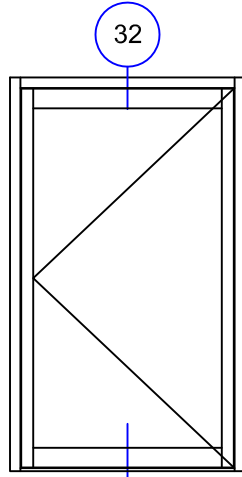
POLY-PILE PS SERIES

*path*

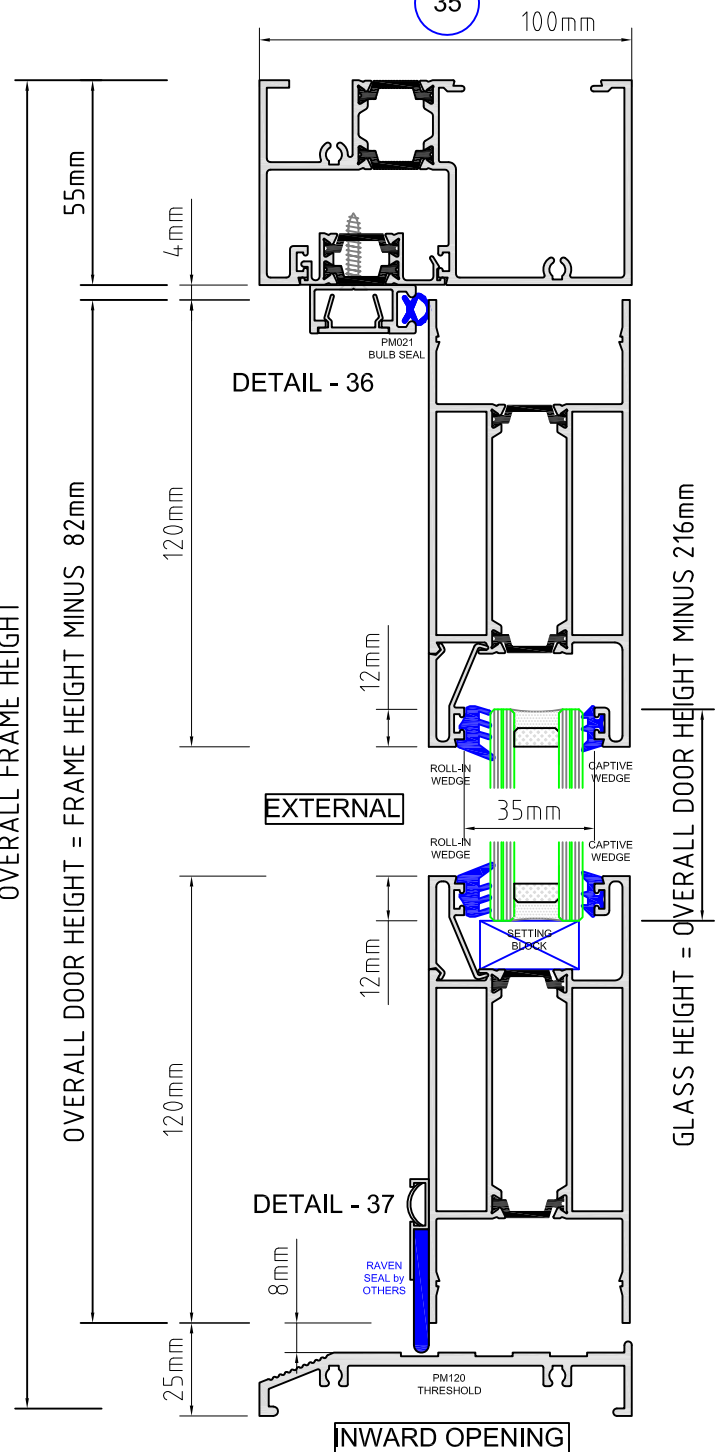
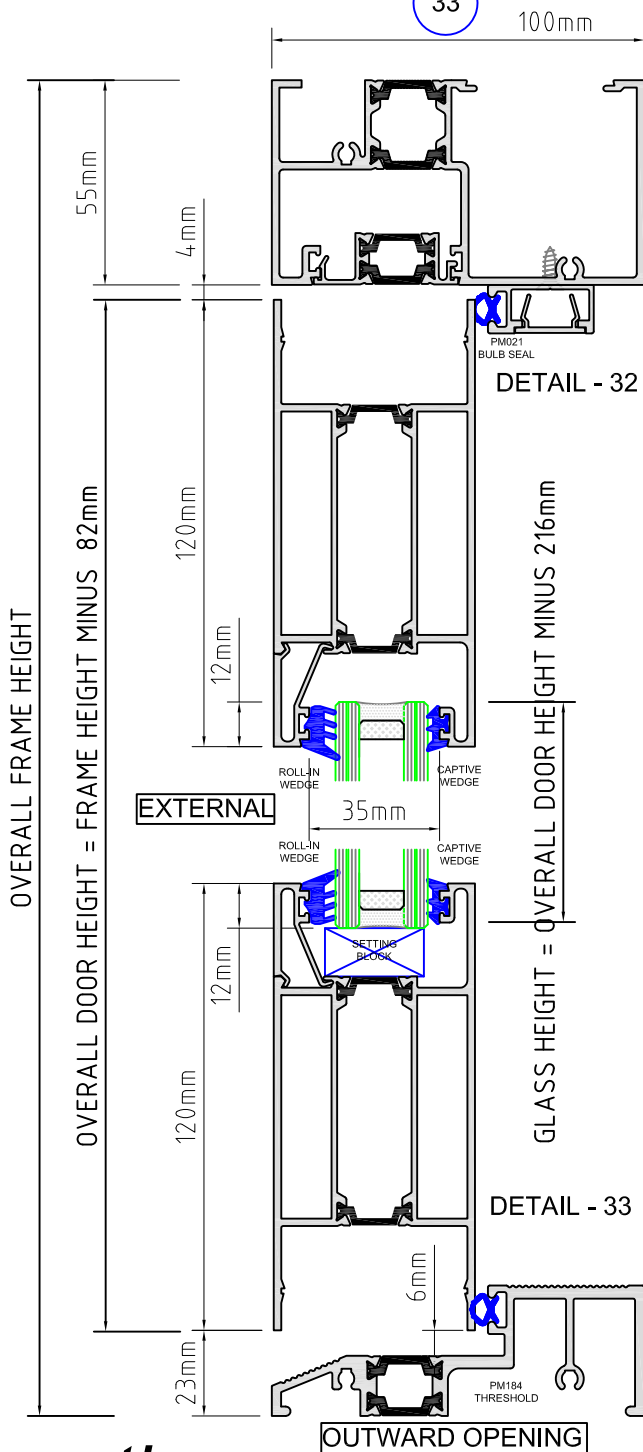
thermal break window system

# DETAILS

## HINGED DOOR

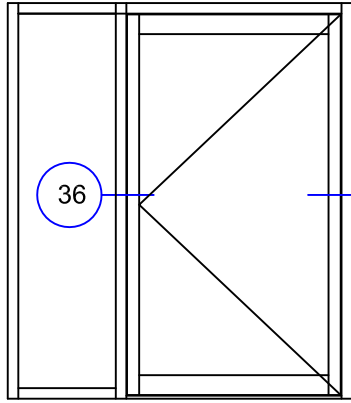


TYPICAL ELEVATIONS  
RIGHT HAND HINGED  
SCALE 1:2

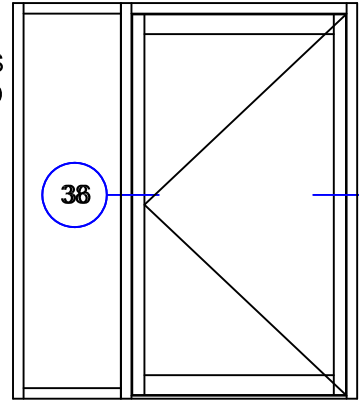


# DETAILS

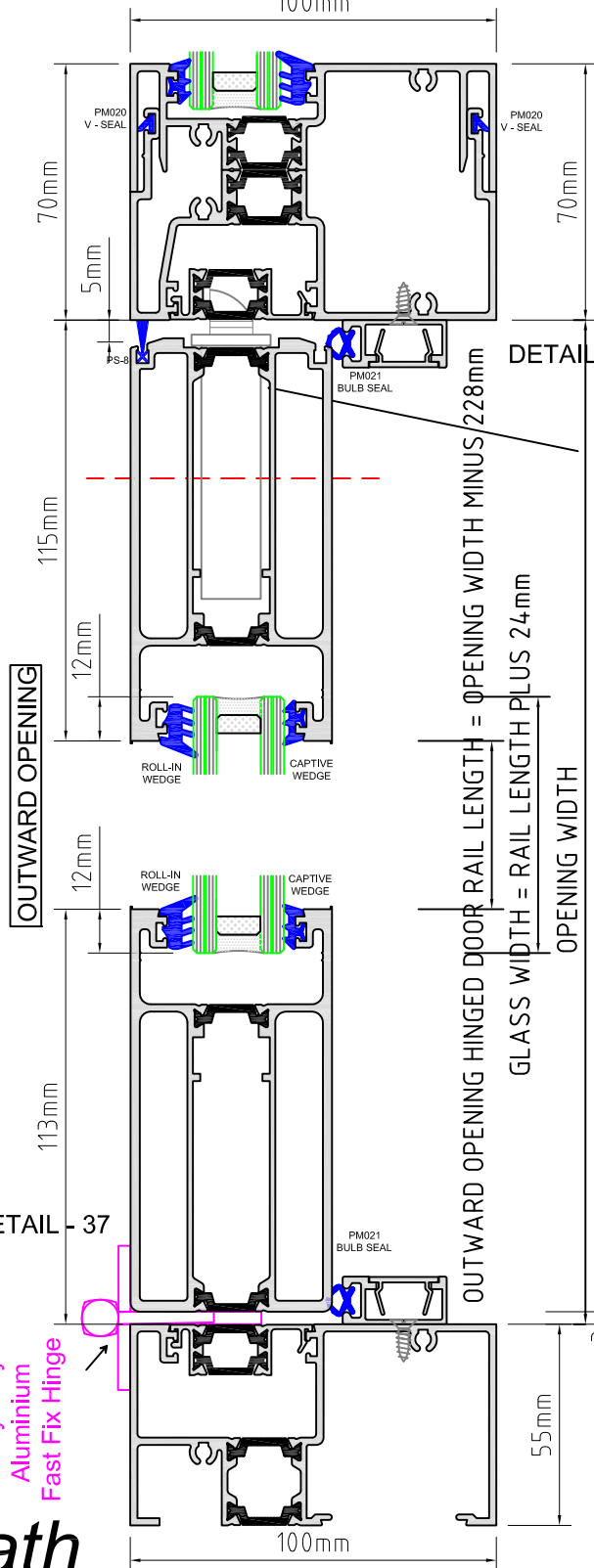
## HINGED DOOR



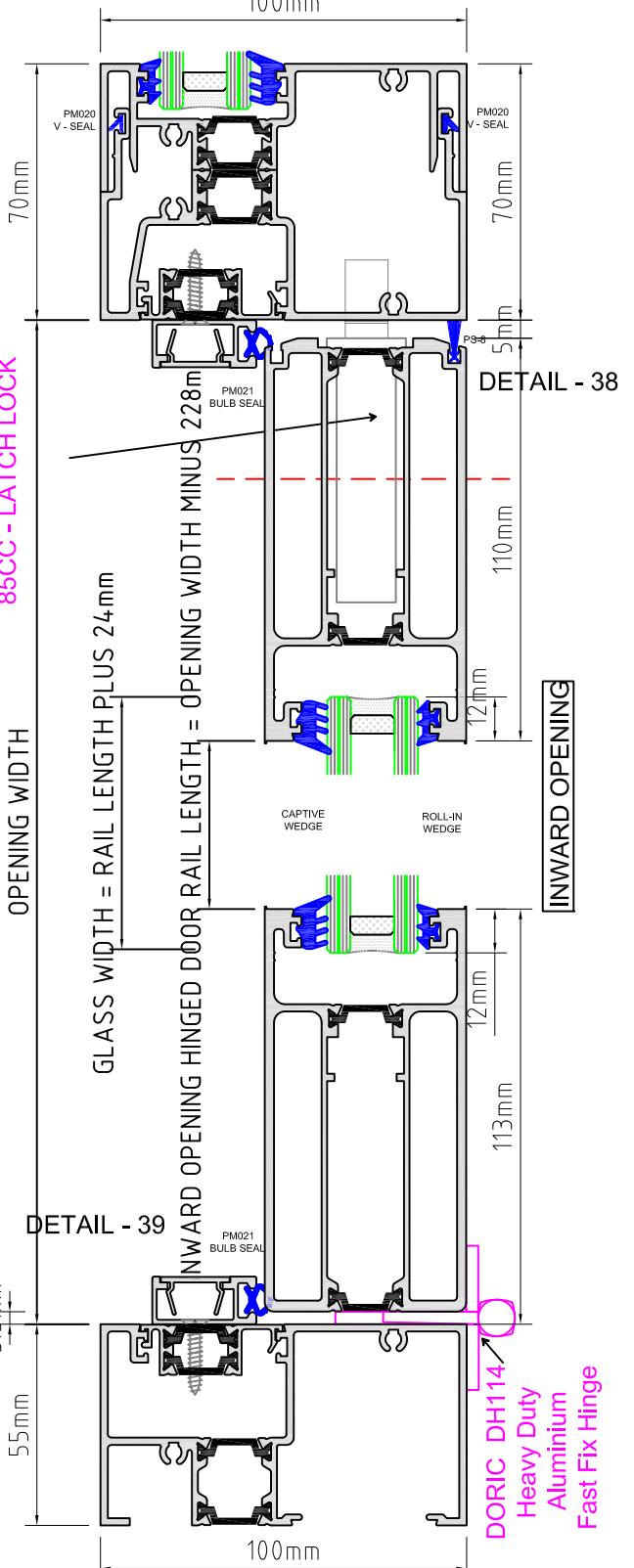
TYPICAL ELEVATIONS  
RIGHT HAND HINGED



SCALE 1:2



DORIC - DT20  
45mm BACKSET  
85CC - LATCH LOCK

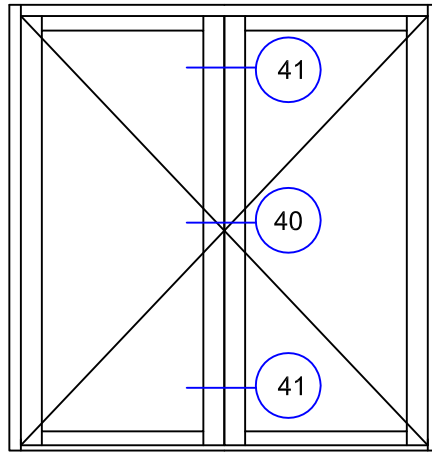


DORIC DH114  
Heavy Duty  
Aluminum  
Fast Fix Hinge

path

# DETAILS

HINGED DOOR

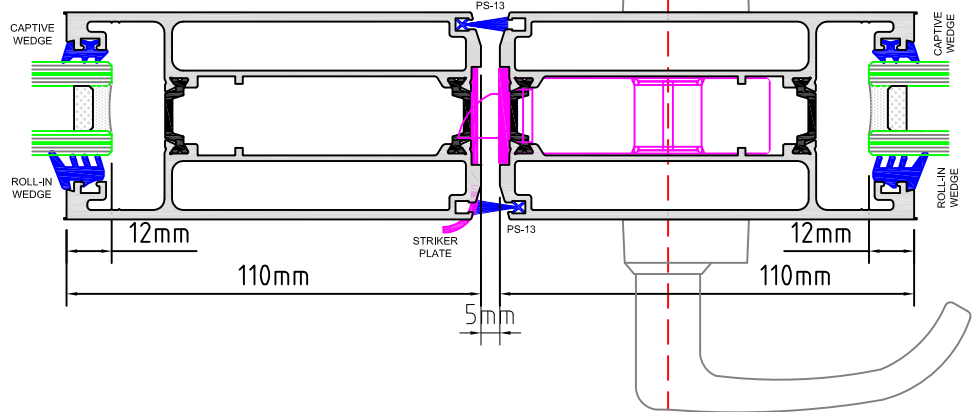


TYPICAL ELEVATIONS  
DOUBLE PANEL  
HINGED DOORS

SCALE 1:2

MORTICE LOCK  
DETAIL - 40

DORIC - DT20  
45mm BACKSET  
85CC - LATCH LOCK

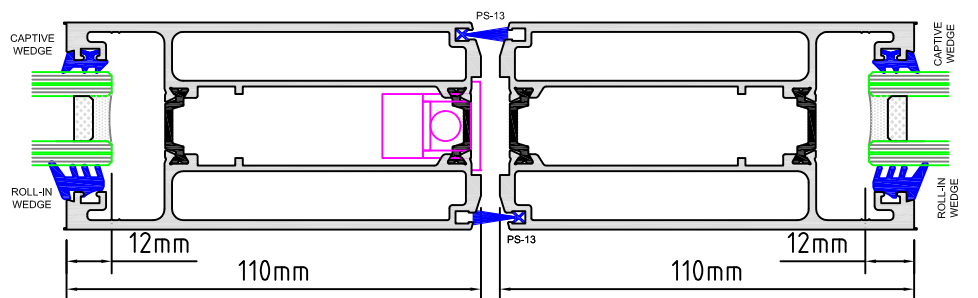


OUTWARD OPENING

DORIC - DN217  
FLUSHBOLT + STD  
250mm ROD

FLUSH BOLT  
DETAIL - 41

SCALE 1:2



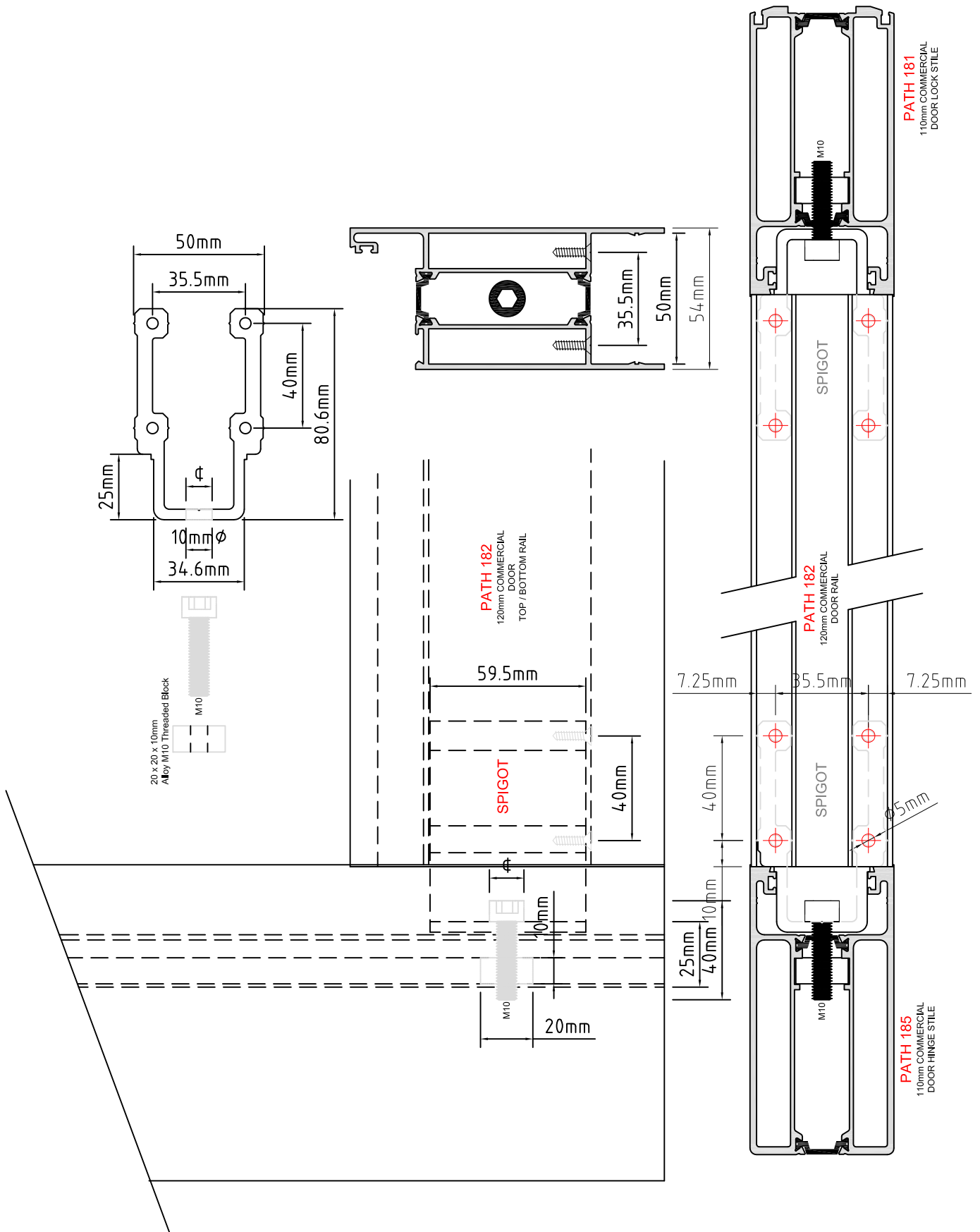
OUTWARD OPENING

*path*

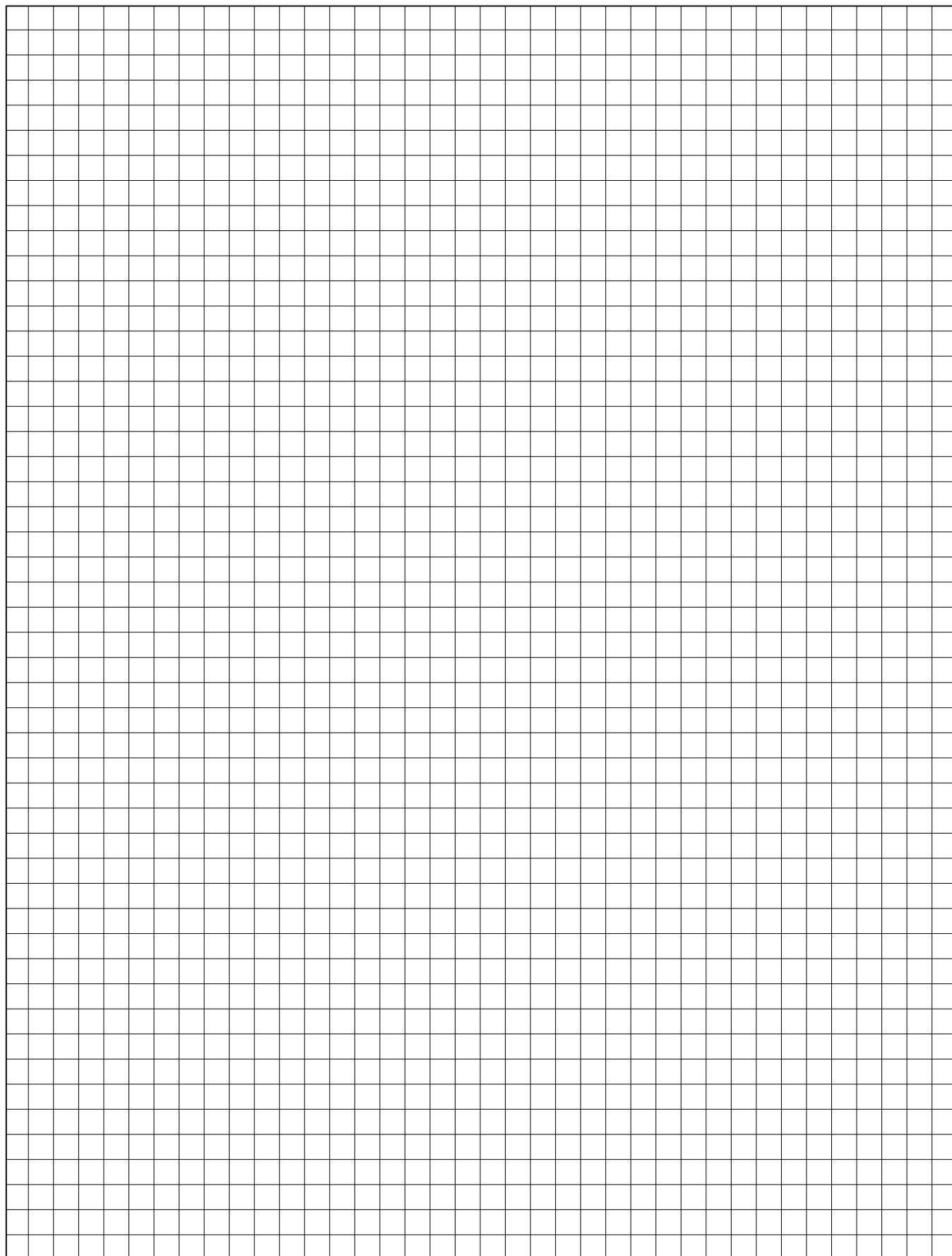
thermal break window system

# DETAILS

## HINGED DOOR



NOTES:



*path*

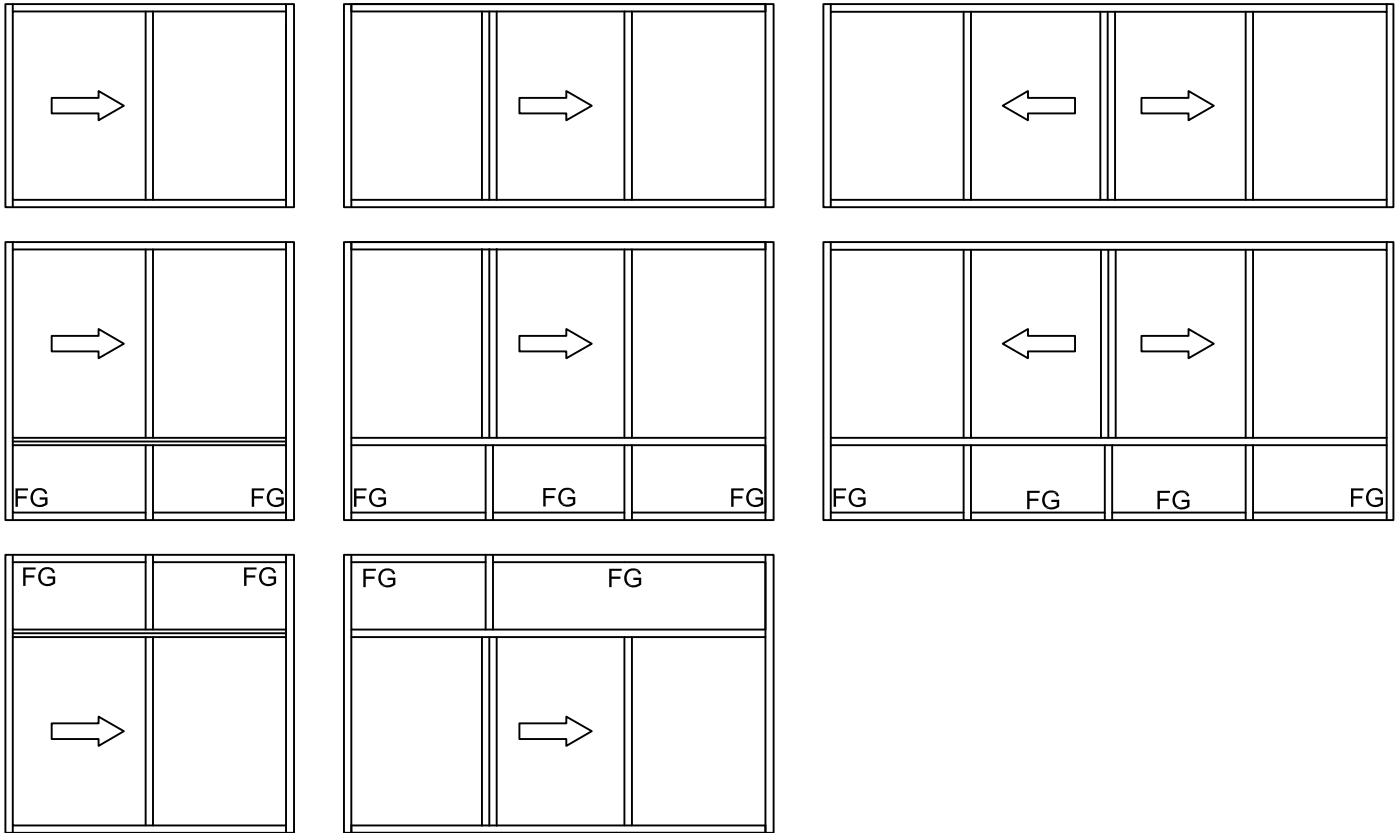
*thermal break window system*

# SLIDING WINDOW AND DOOR TYPICAL CONFIGURATIONS

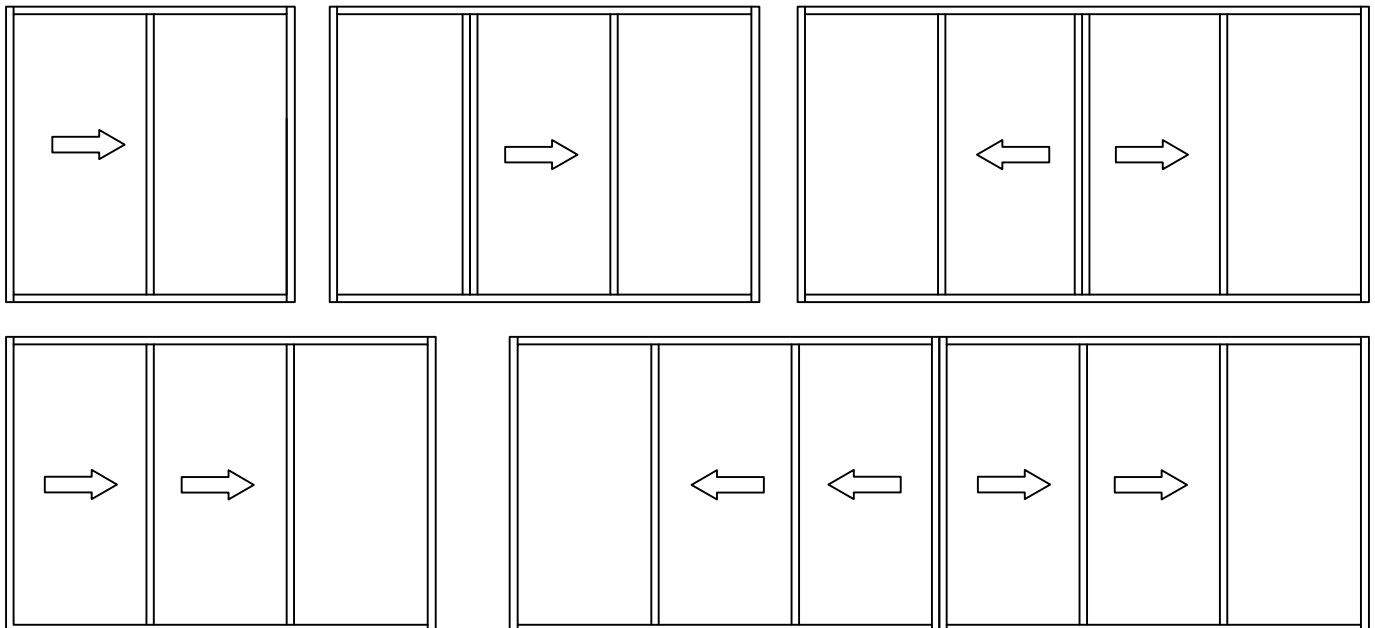
2 TRACK - 100mm

3 TRACK - 150MM

## SLIDING WINDOWS



## SLIDING DOORS



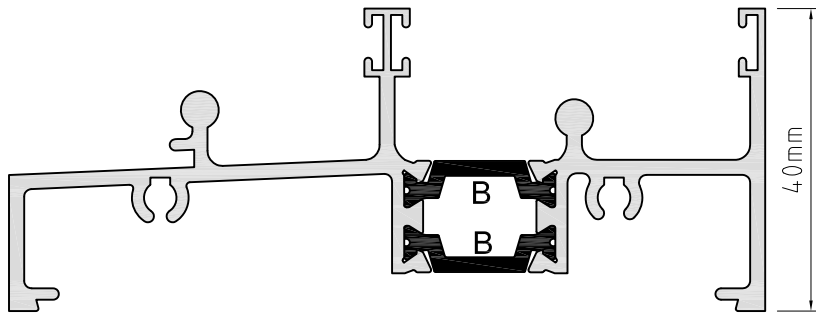
*path*

thermal break window system

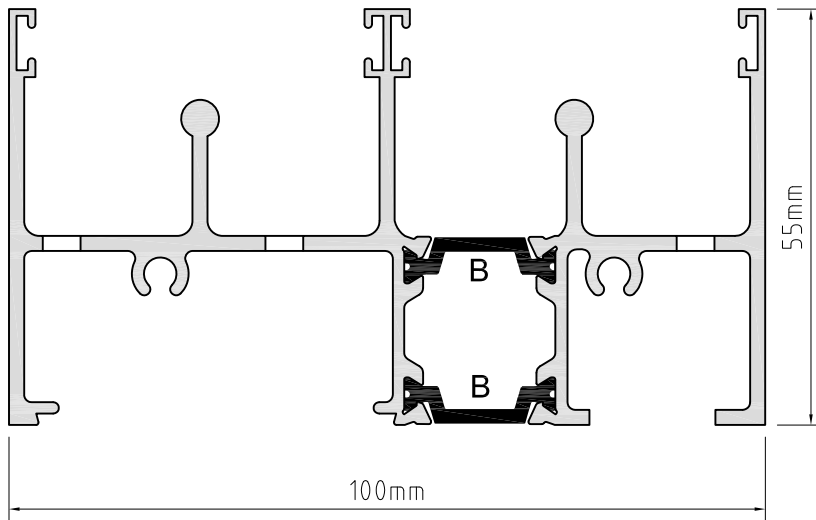
# EXTRUSIONS

100mm X 55mm SLIDING DOOR FRAME

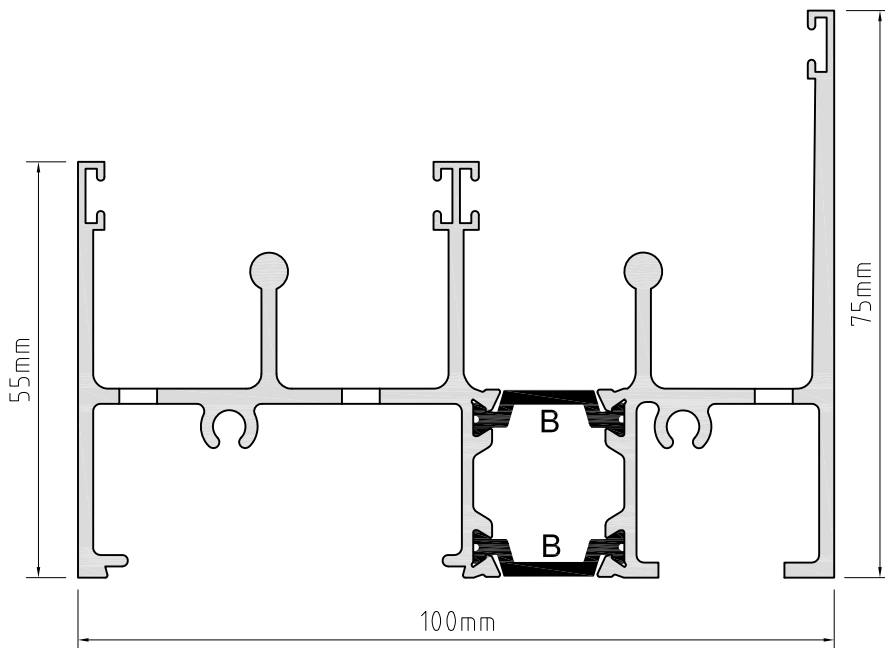
SCALE 1:1



**PATH 162**  
LOW RISE  
SILL / TRANSOM  
A/P: 520.27 mm



**PATH 161**  
STANDARD S-DOOR SILL  
A/P: 736.64 mm



**PATH 159**  
HIGH S-DOOR SILL  
A/P: 764.32 mm

*path*

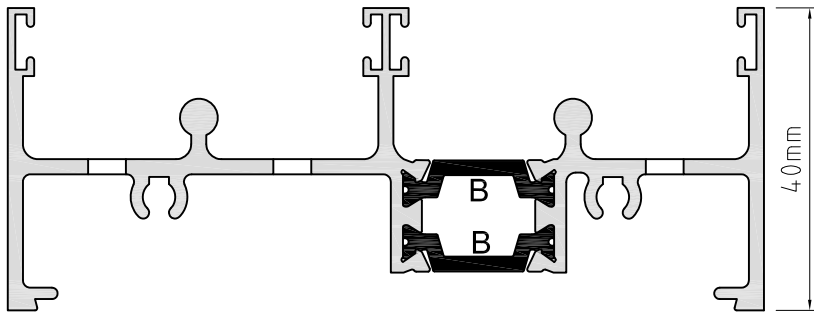
thermal  break window system



# EXTRUSIONS

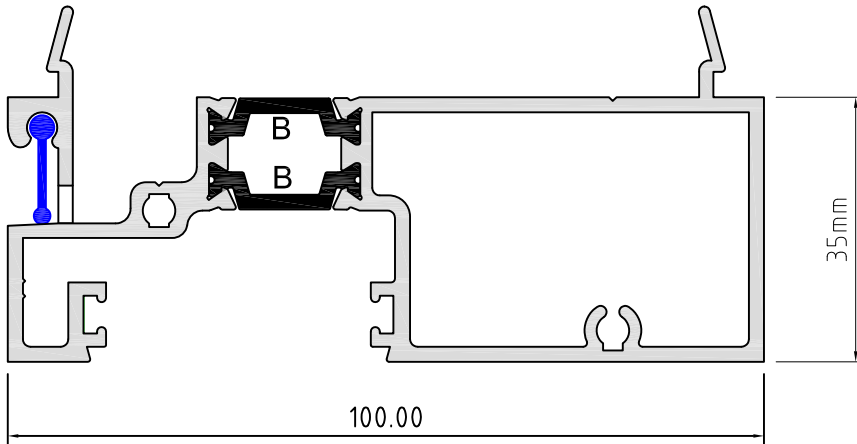
100mm X 55mm SLIDING DOOR FRAME

SCALE 1:1



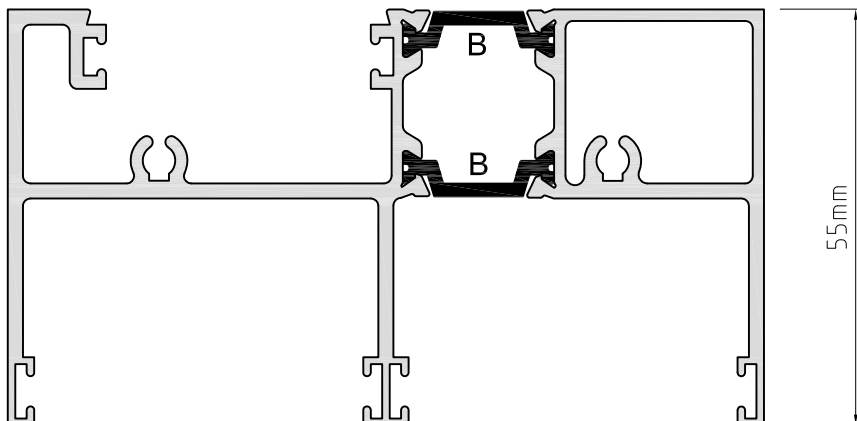
## PATH 160

S-WINDOW LOW LITE  
SILL / TRANSOM  
A/P: 587.05 mm



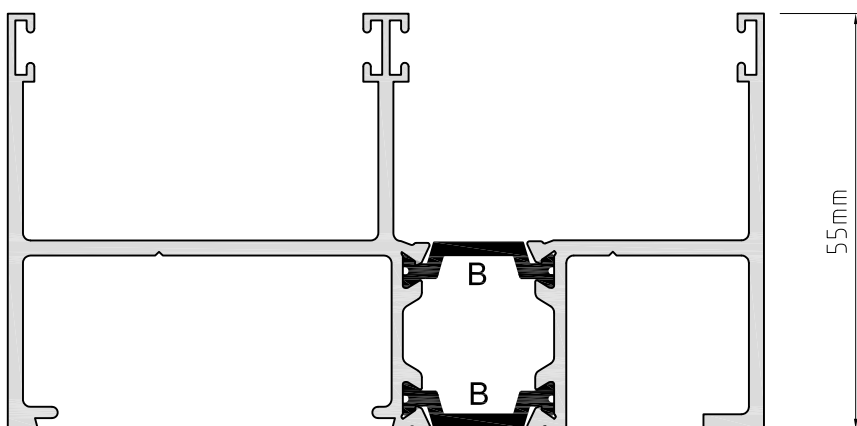
## PATH 163

S-WINDOW LOW LITE  
TRANSOM ADAPTOR  
A/P: 473.56 mm



## PATH 164

S-DOOR HEAD /TRANSOM  
A/P: 614.13 mm



## PATH 165

S-DOOR JAMB  
A/P: 600.78 mm

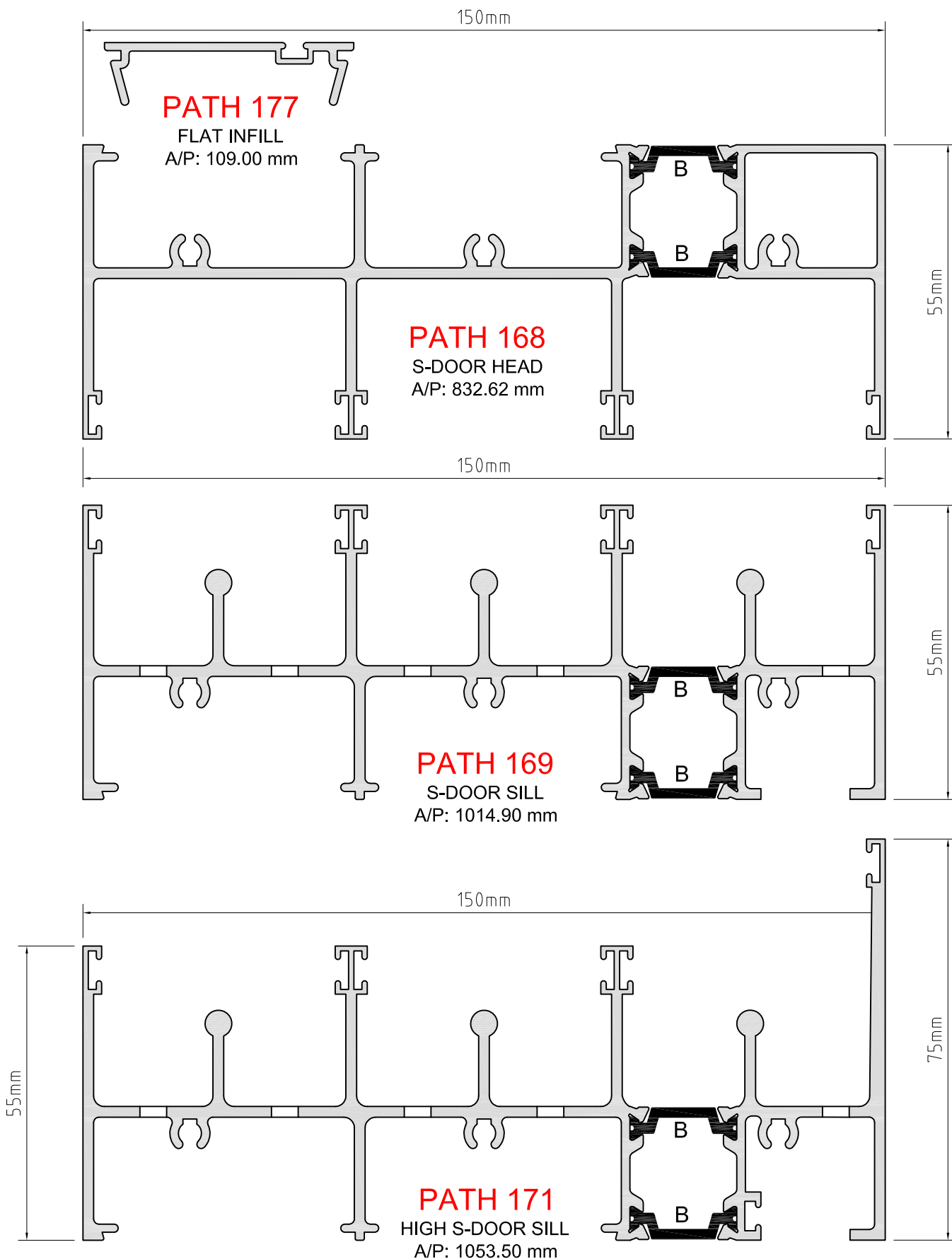
*path*

thermal  break window system

# EXTRUSIONS

150mm X 55mm SLIDING DOOR FRAME

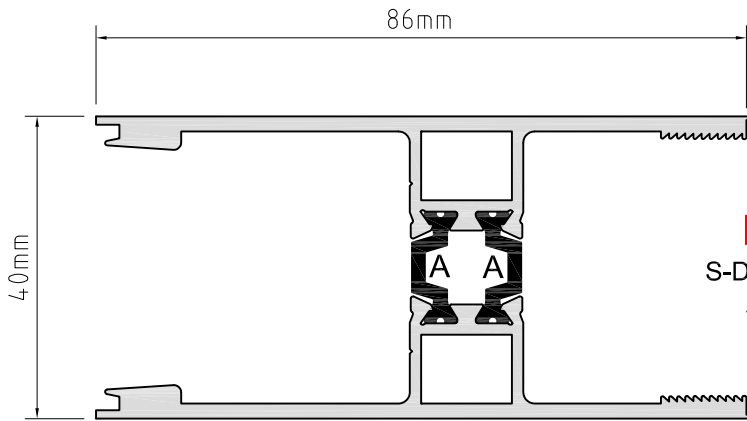
SCALE 1:1



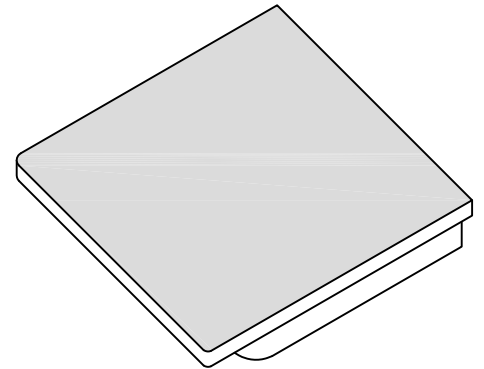
# EXTRUSIONS

SLIDING DOOR SECTIONS

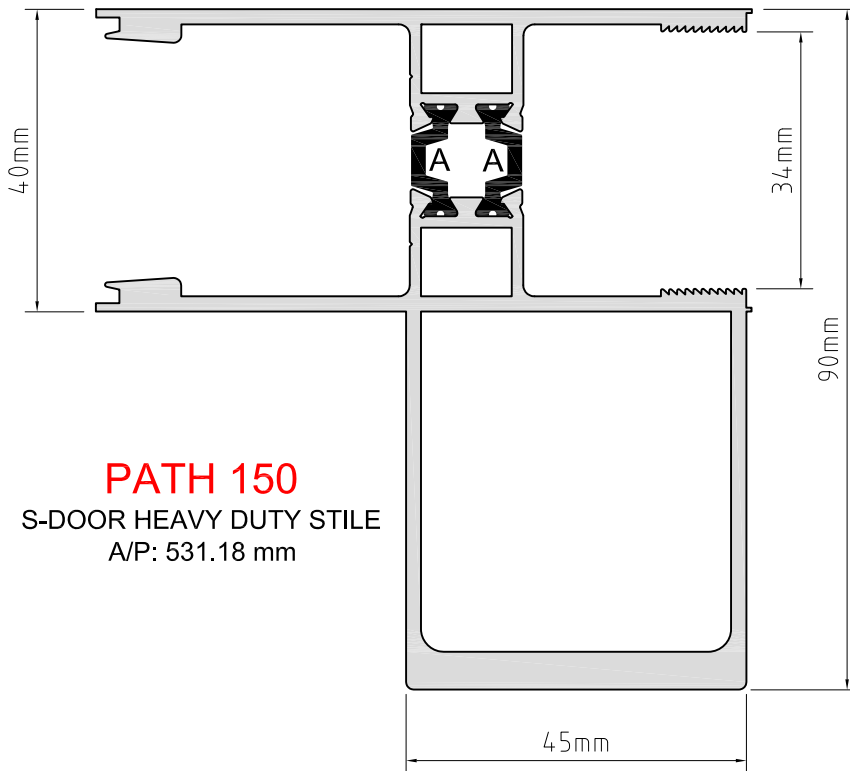
SCALE 1:1



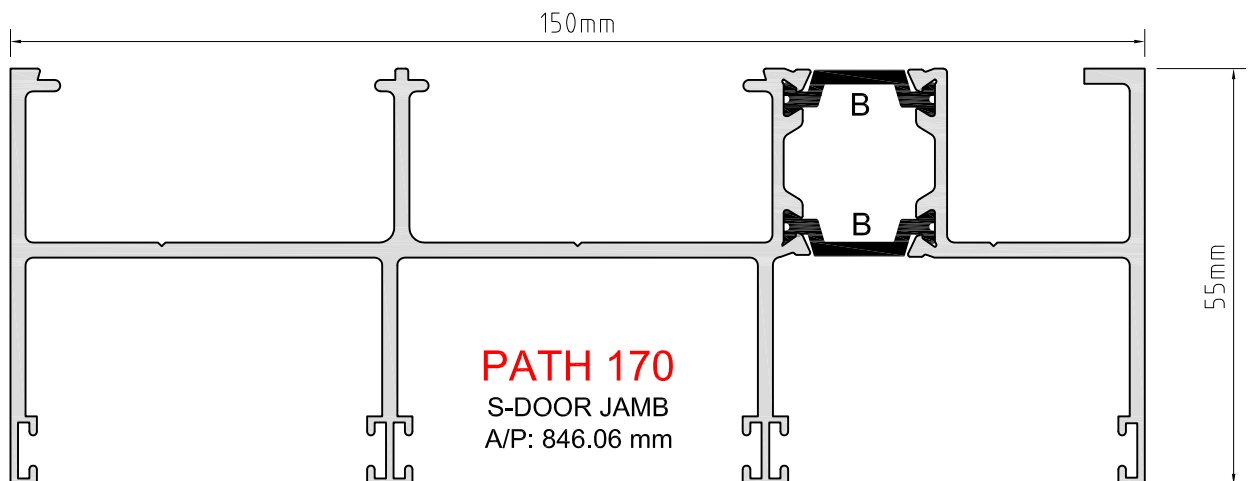
**PATH 149**  
S-DOOR PLAIN STILE  
A/P: 432.04 mm



**PM 075**  
STILE CAP



**PATH 150**  
S-DOOR HEAVY DUTY STILE  
A/P: 531.18 mm



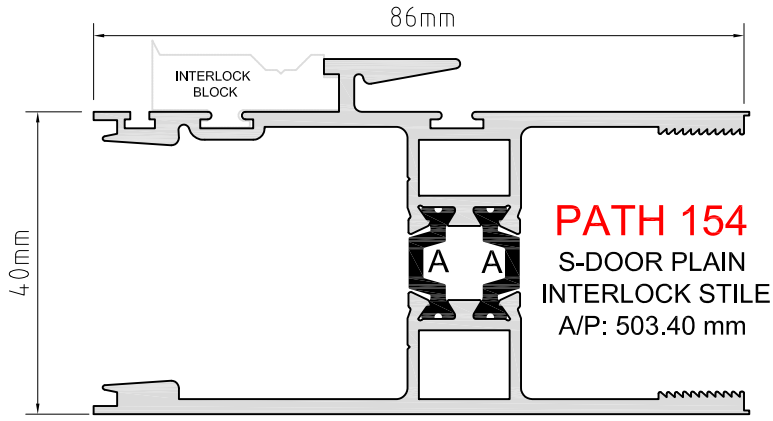
**PATH 170**  
S-DOOR JAMB  
A/P: 846.06 mm

*path*

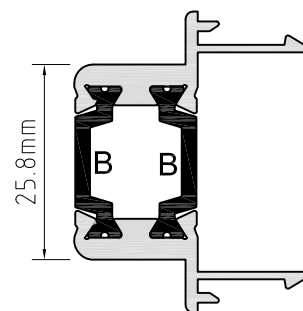
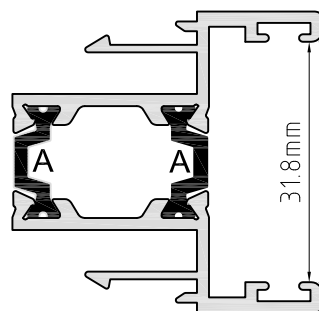
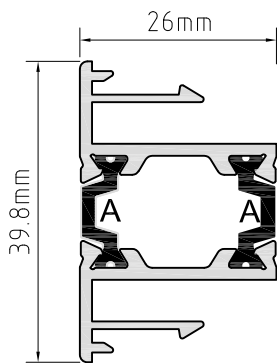
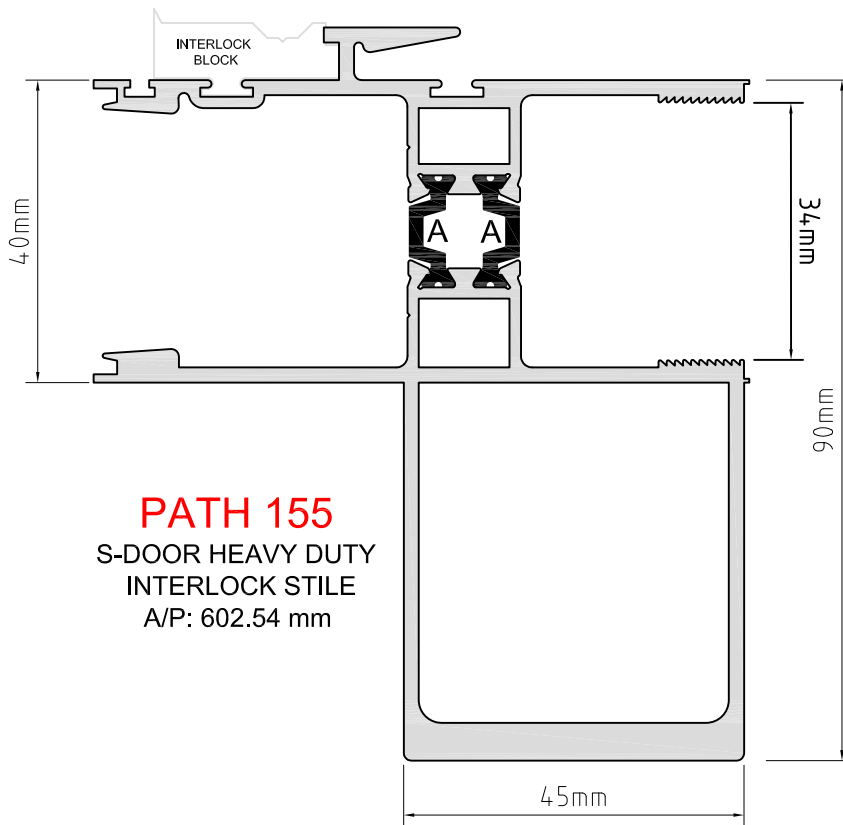
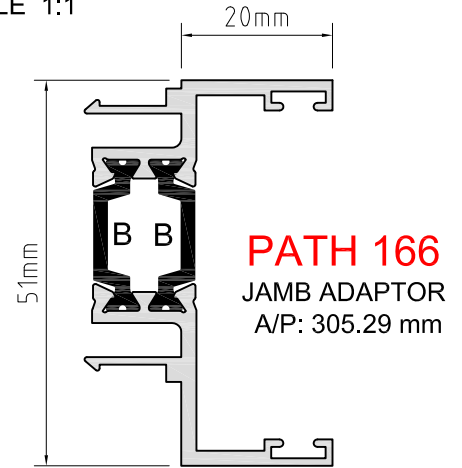
thermal break window system

# EXTRUSIONS

## SLIDING DOOR SECTIONS



SCALE 1:1

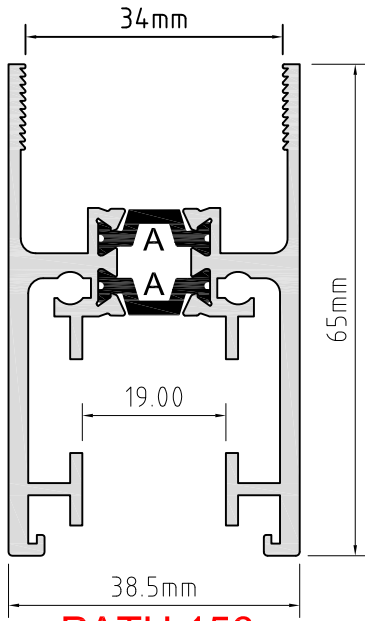


**path**

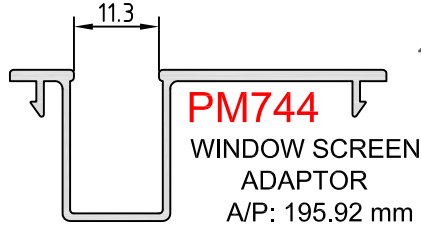
thermal break window system

# EXTRUSIONS

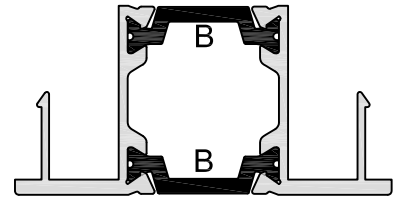
## SLIDING DOOR SECTIONS



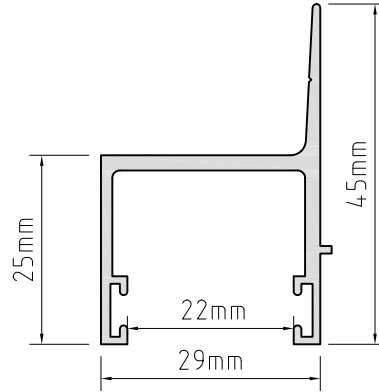
**PATH 156**  
S-DOOR STANDARD RAIL  
A/P: 485.53 mm



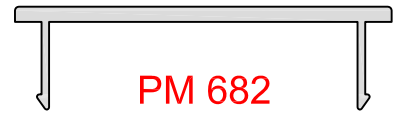
**PM744**  
WINDOW SCREEN  
ADAPTOR  
A/P: 195.92 mm



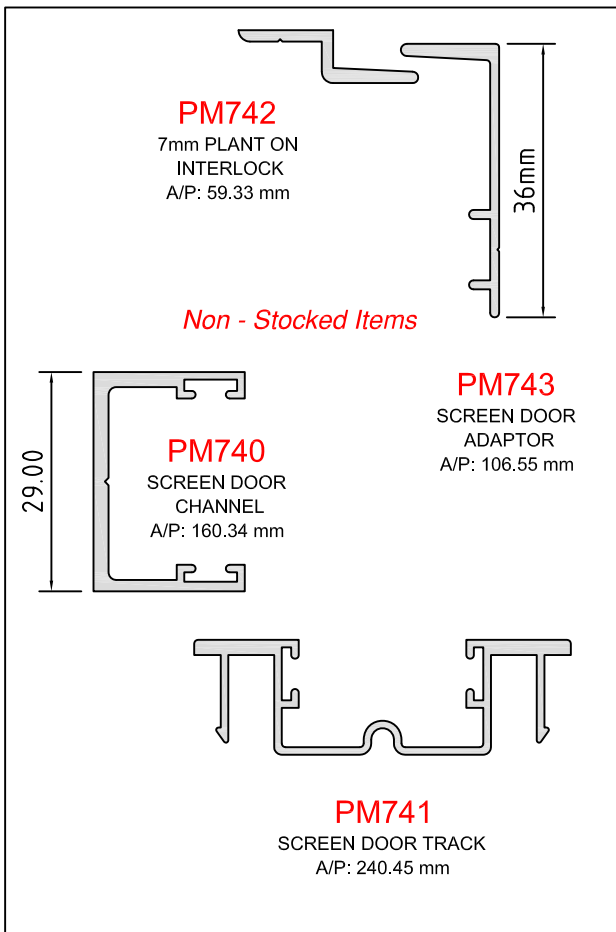
**PATH 158**  
TB TRACK INFILL  
A/P: 197.40 mm



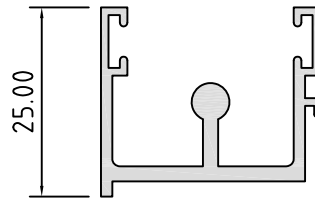
**PM 445**  
SINGLE HEAD TRACK  
ADAPTOR  
A/P: 221.01 mm



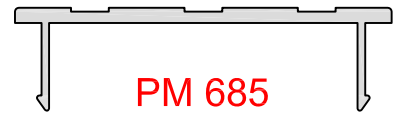
**PM 682**  
PLAIN TRACK INFILL  
A/P: 149.84 mm



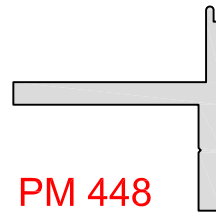
*Non - Stocked Items*



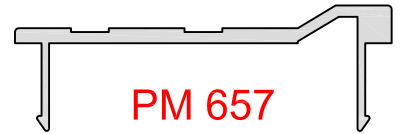
**PM 447**  
SINGLE SILL TRACK  
ADAPTOR  
A/P: 204.15 mm



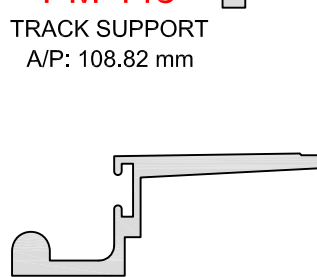
**PM 685**  
FLAT THRESHOLD  
A/P: 154.76 mm



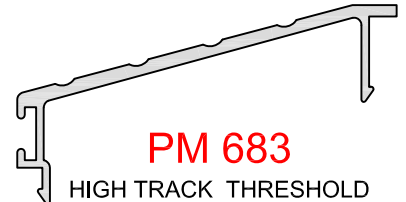
**PM 448**  
TRACK SUPPORT  
A/P: 108.82 mm



**PM 657**  
LIPPED THRESHOLD  
A/P: 160.33 mm



**PM 675**  
LOW PROFILE SILL  
SCREEN ADAPTOR  
A/P: 127.75 mm

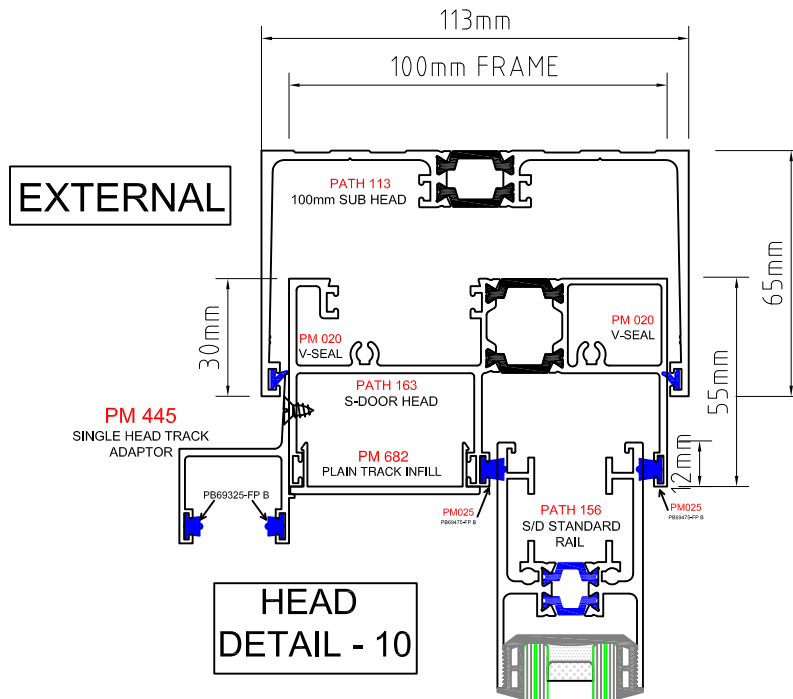
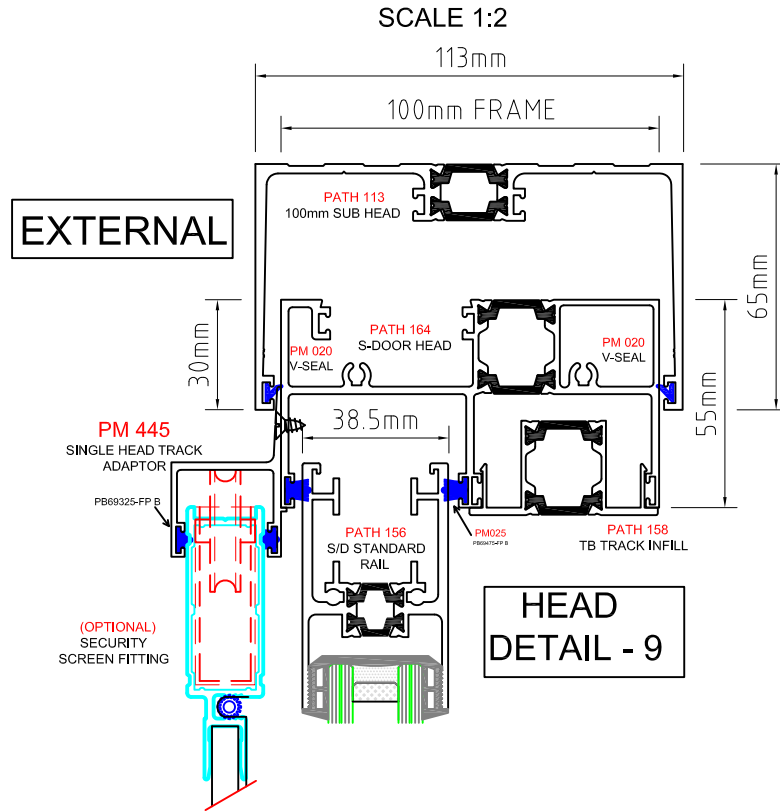
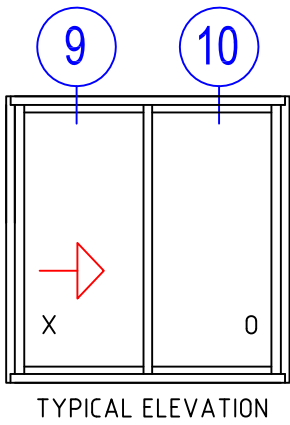


**PM 683**  
HIGH TRACK THRESHOLD  
(Fits Section PATH159 & 171)  
A/P: 170.22 mm

**path**

thermal break window system

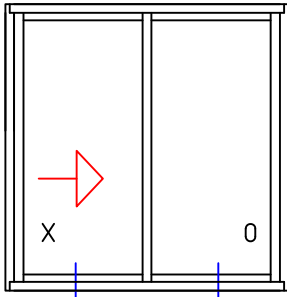
(Suits PM 160 Low Profile Sill)



# DETAILS

SLIDING DOOR - LOW SILL

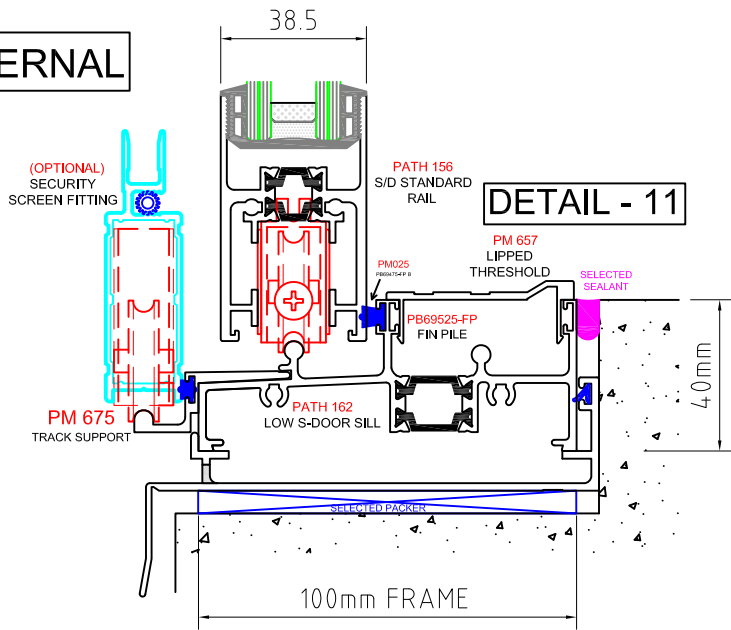
SCALE 1:2



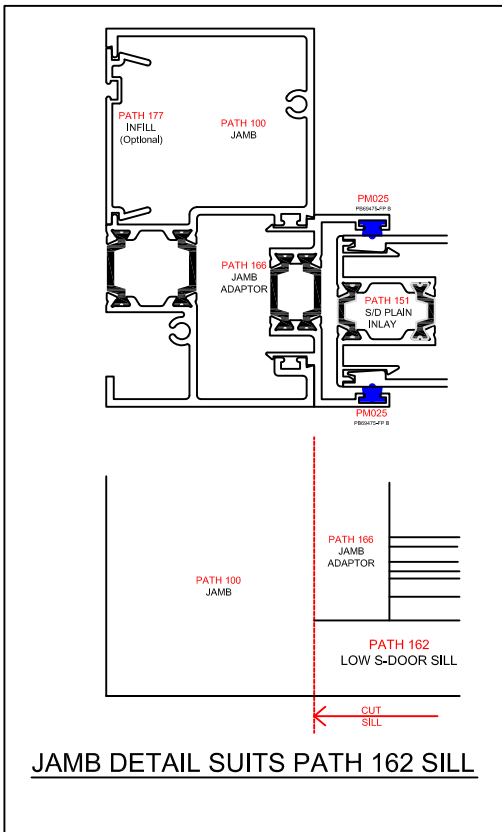
11 12

TYPICAL ELEVATION

EXTERNAL

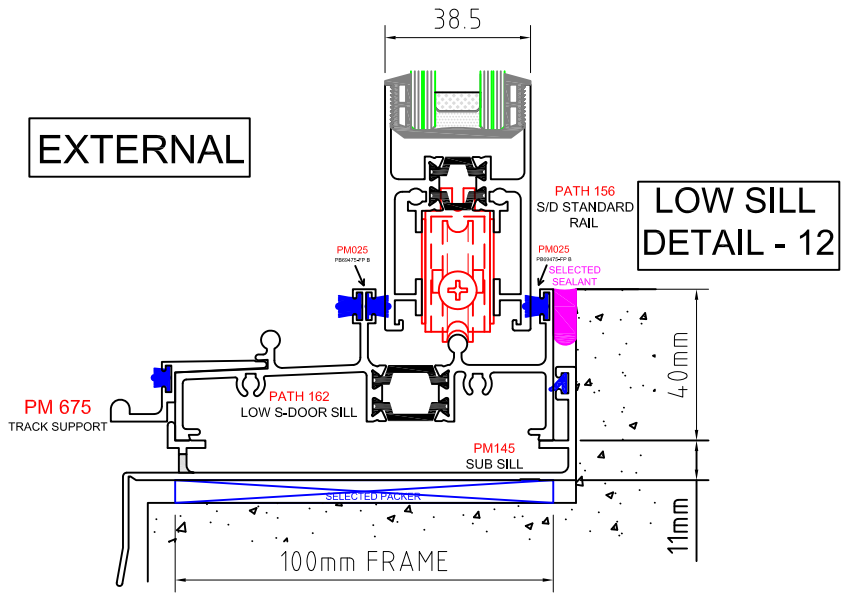


DETAIL - 11

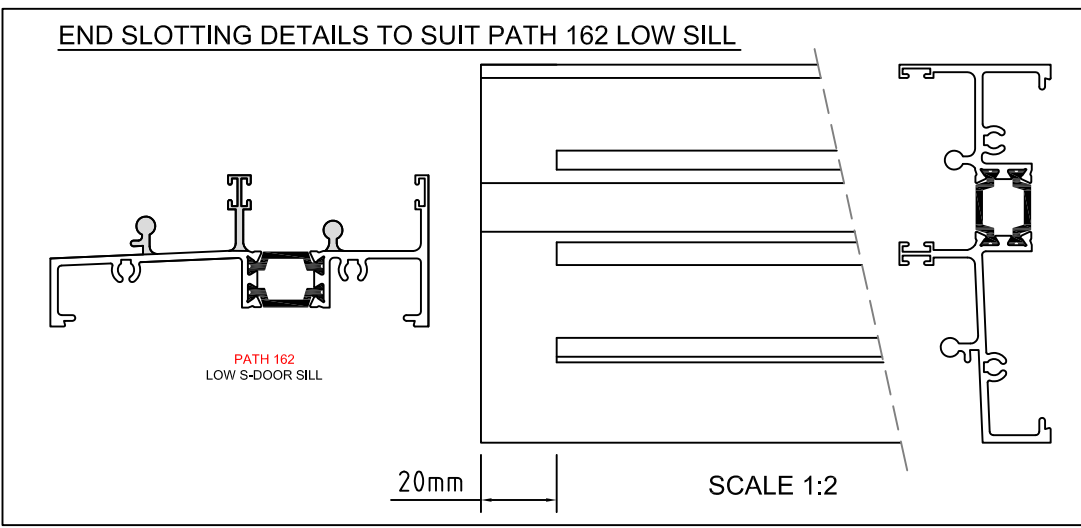


JAMB DETAIL SUITS PATH 162 SILL

EXTERNAL



LOW SILL DETAIL - 12



END SLOTTING DETAILS TO SUIT PATH 162 LOW SILL

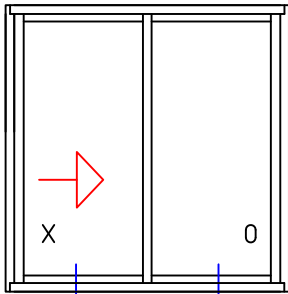
20mm SCALE 1:2

**path**

thermal break window system

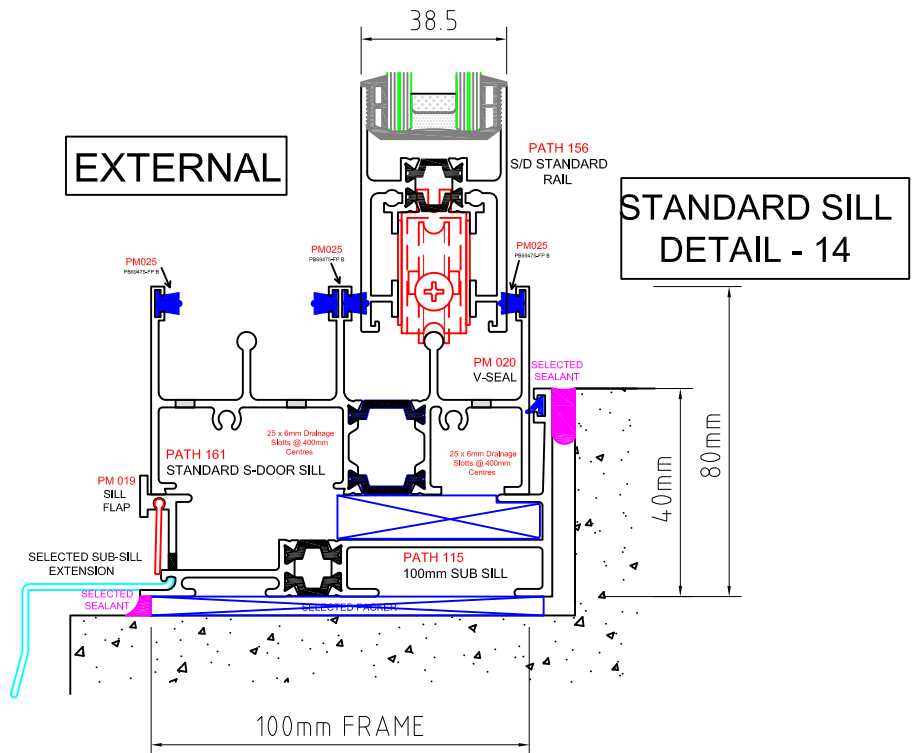
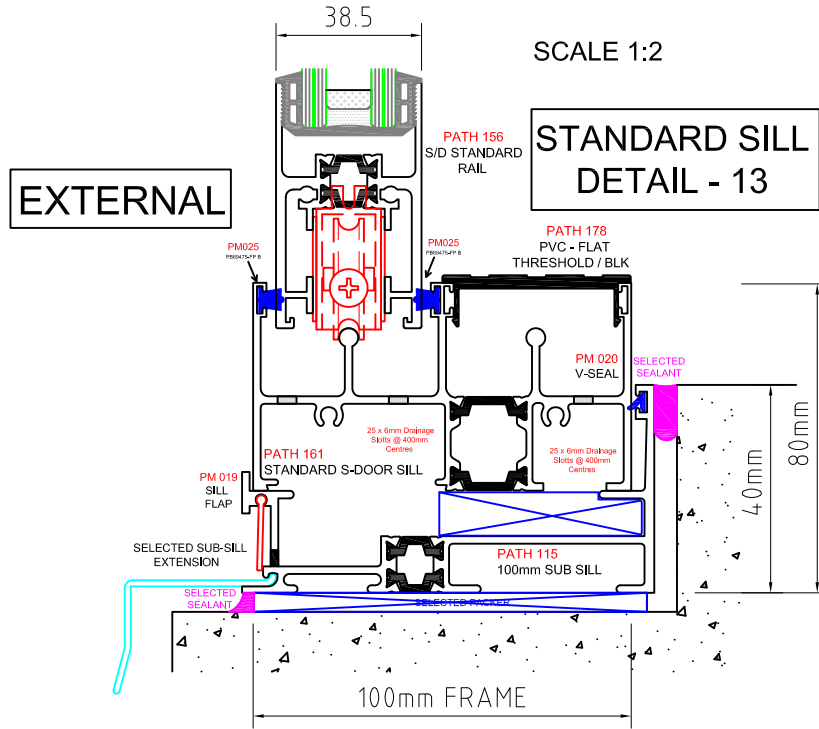
# DETAILS

SLIDING DOOR - STANDARD SILL



13 14

TYPICAL ELEVATION



*path*

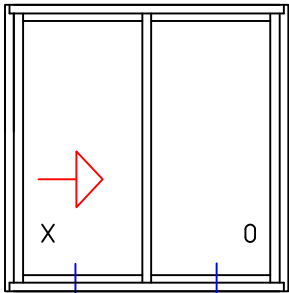
thermal break window system



# DETAILS

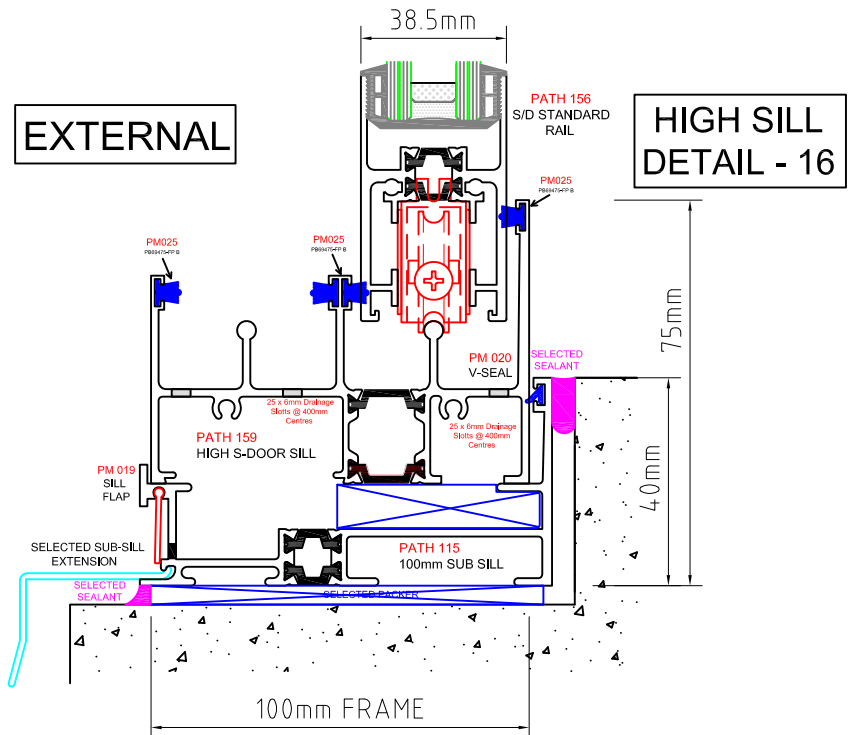
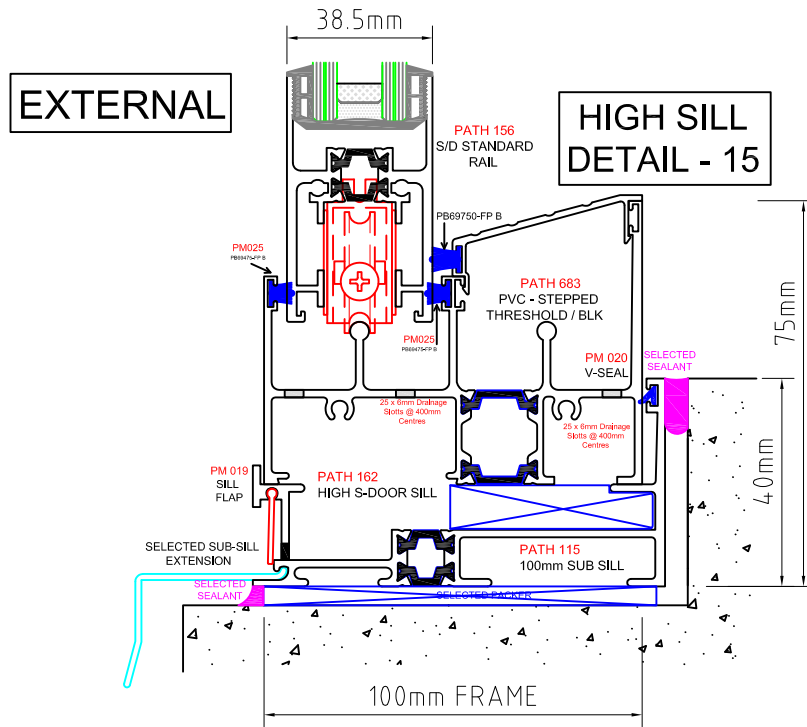
SLIDING DOOR - DEEP SILL

SCALE 1:2



15 16

TYPICAL ELEVATION

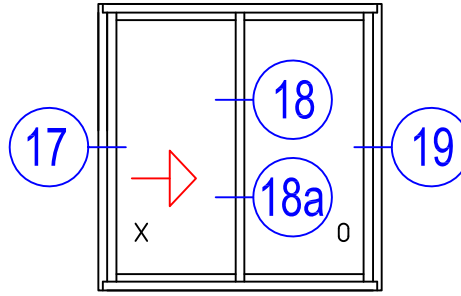


*path*

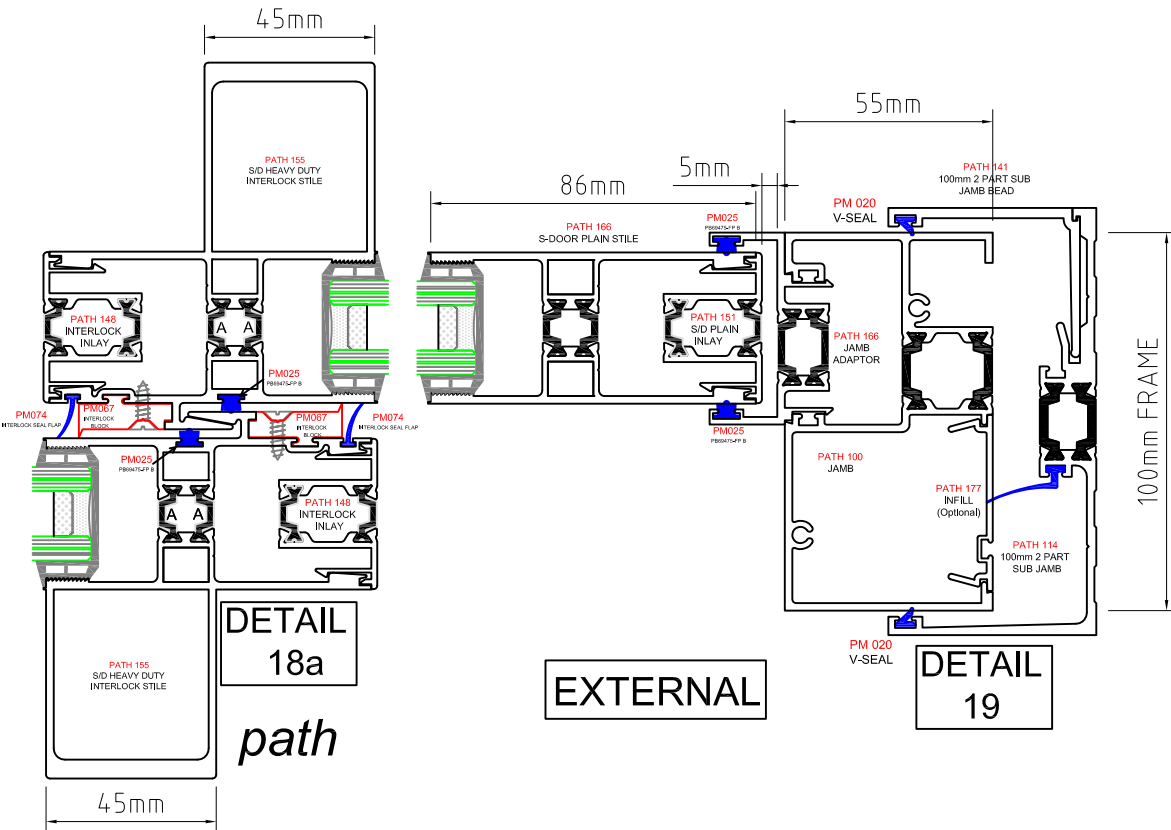
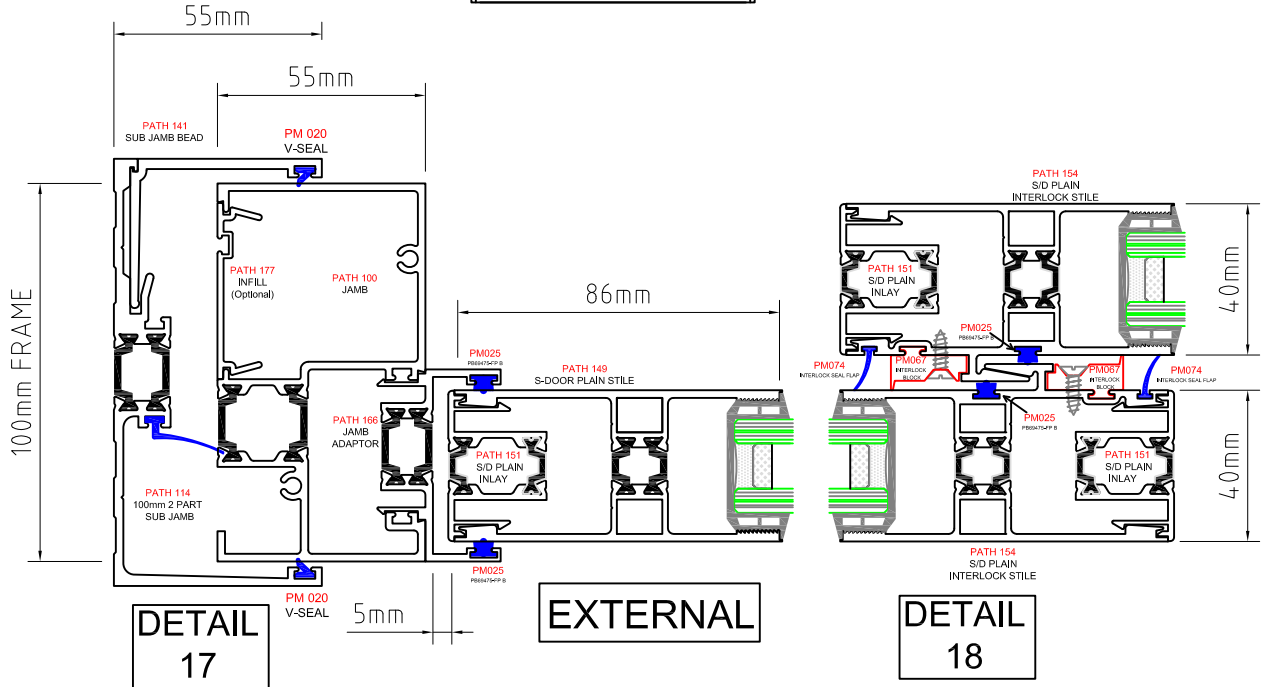
thermal break window system

# DETAILS

100mm XO - SLIDING DOOR  
- JAMB - INTERLOCK



SCALE 1:2

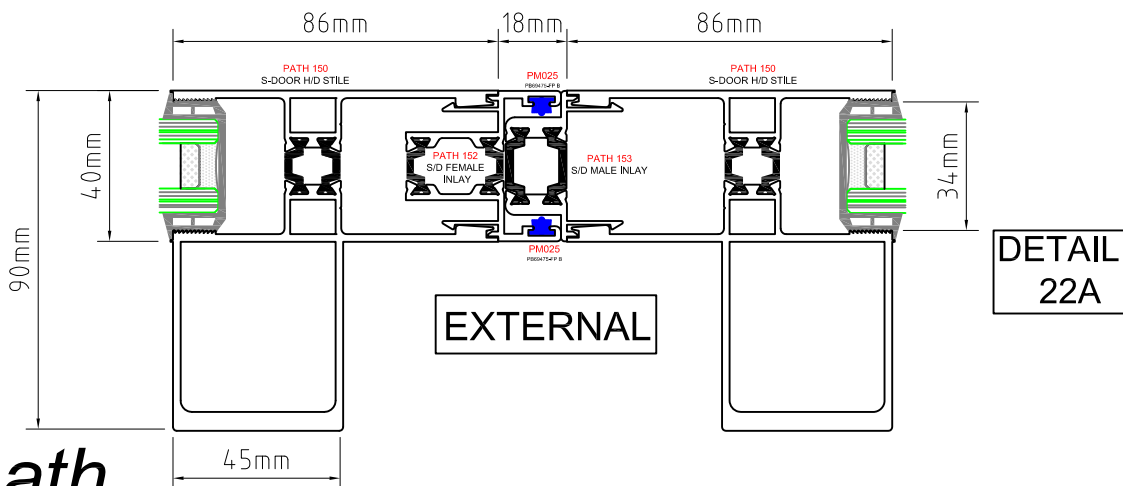
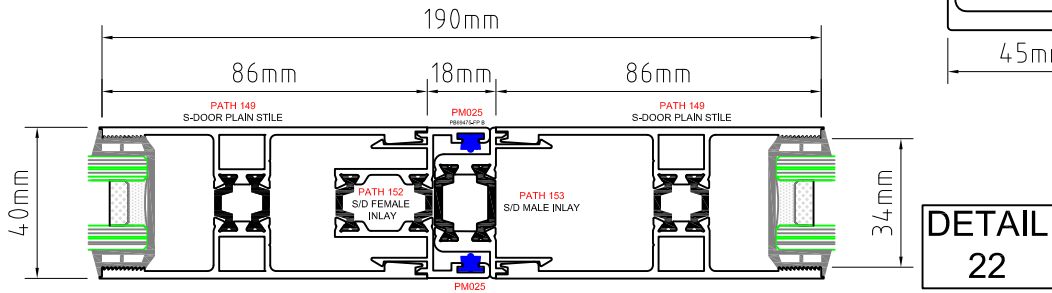
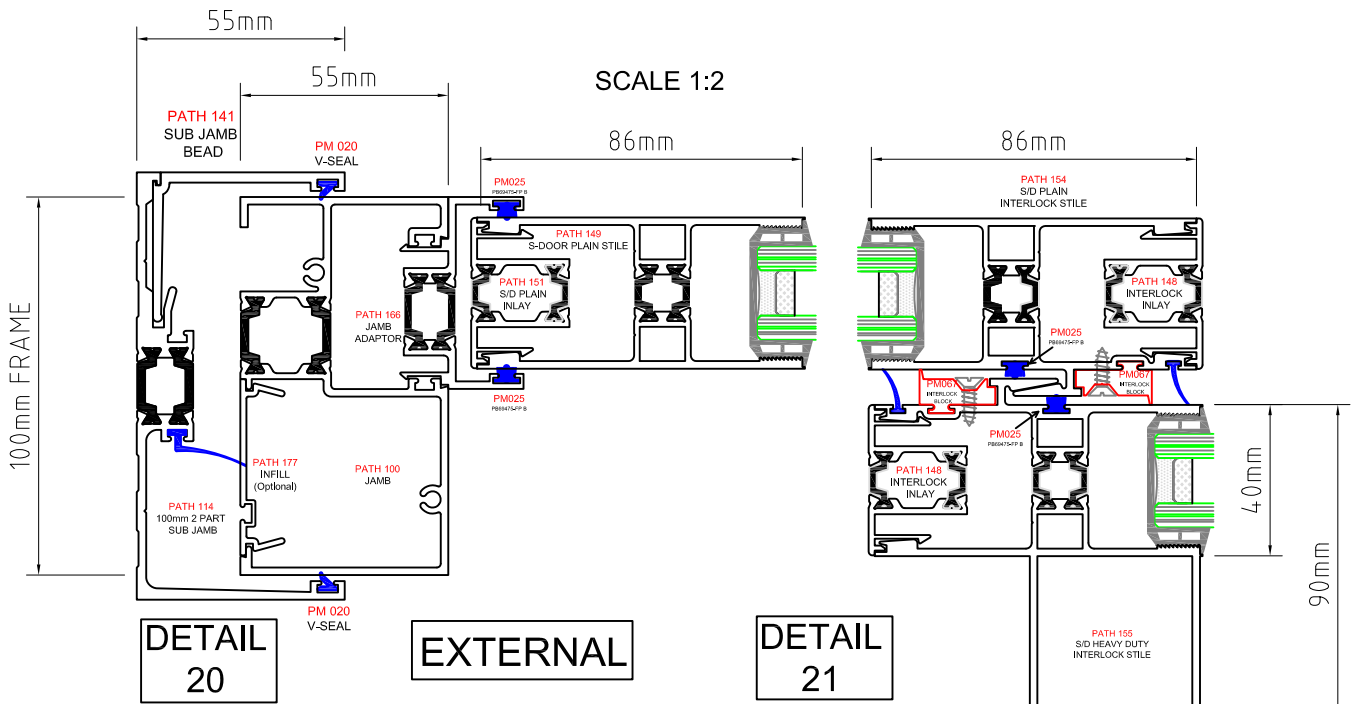
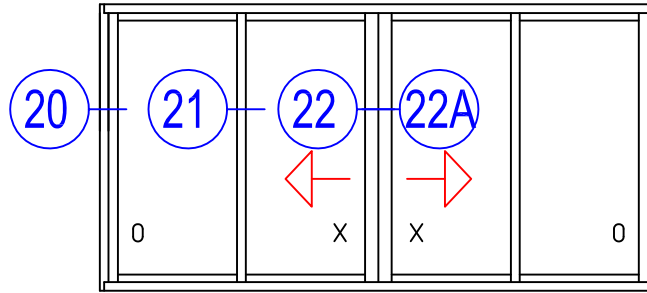


*path*

thermal break window system

# DETAILS

100mm OXXO - SLIDING DOOR - JAMB  
INTERLOCK - MEETING STILES

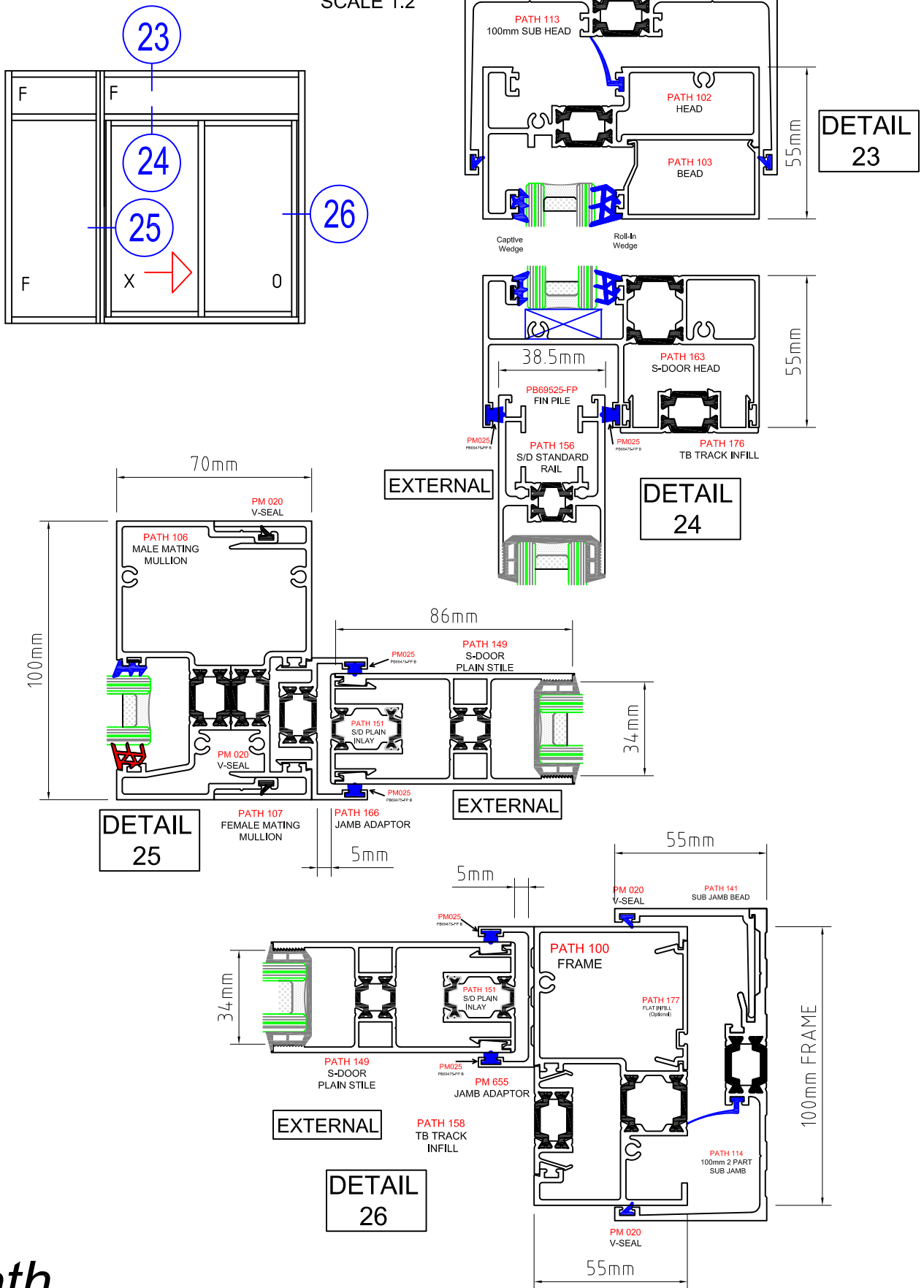


**path**

thermal break window system

# DETAILS

100mm SLIDING DOOR - MULLION - TRANSOM



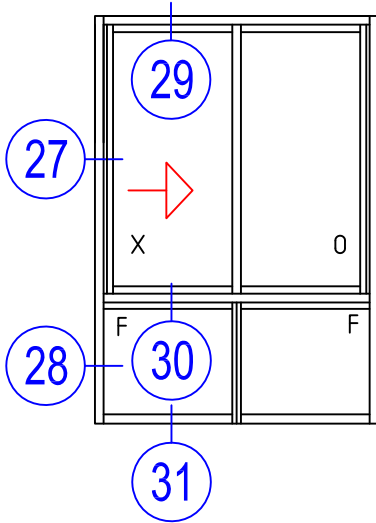
*path*

thermal break window system

# DETAILS

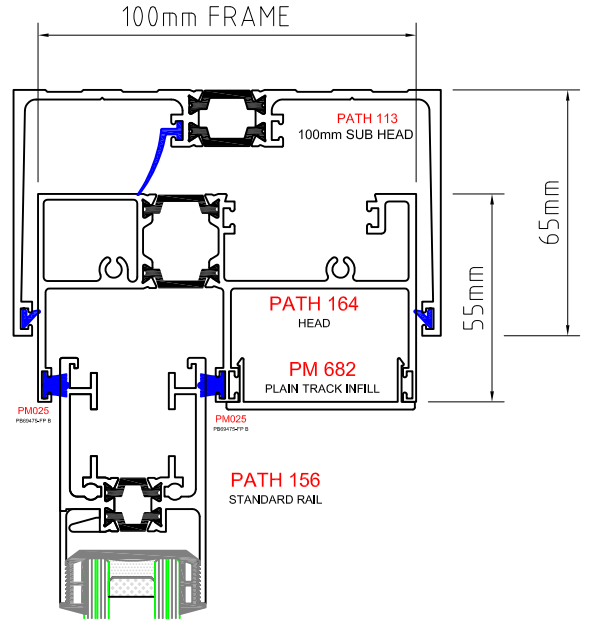
100mm SLIDING WINDOW - JAMB - TRANSOM

SCALE 1:2

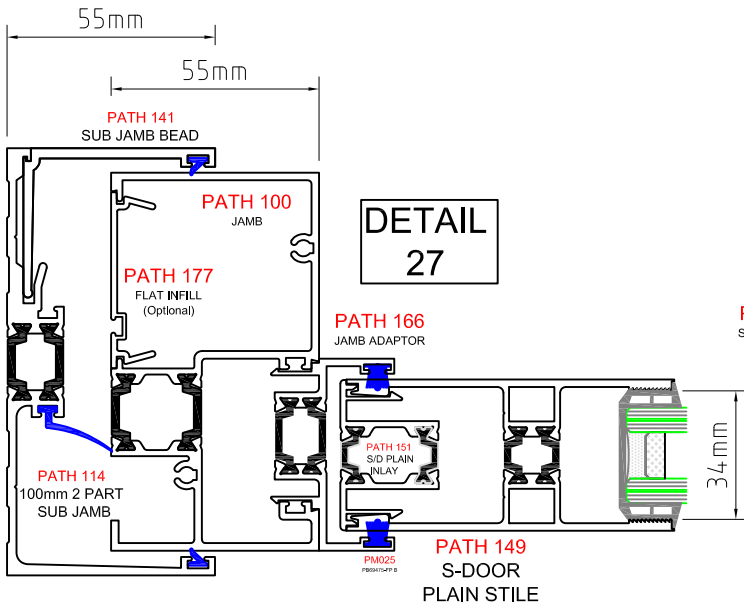


DETAIL 29

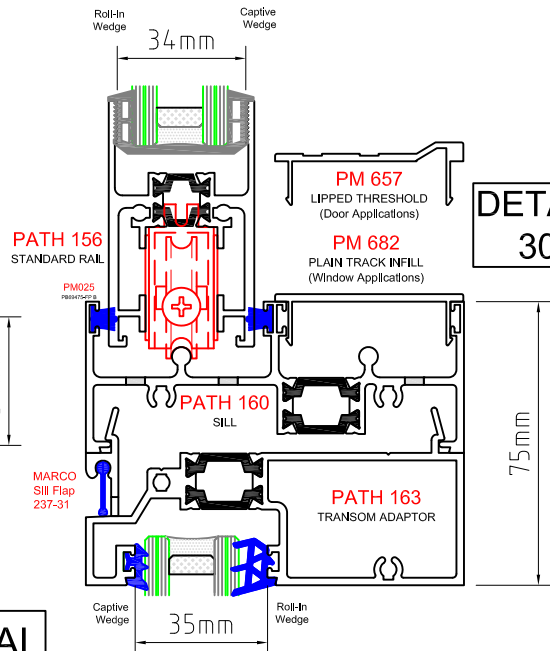
EXTERNAL



DETAIL 27

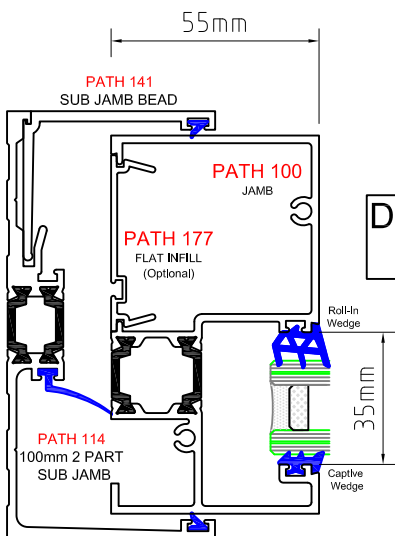


DETAIL 30

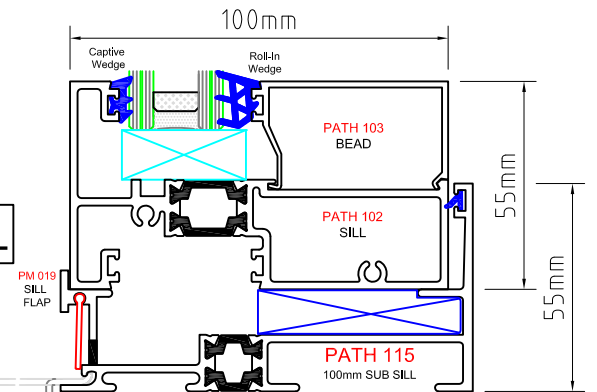


EXTERNAL

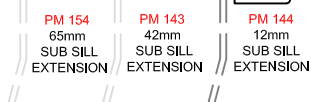
DETAIL 28



EXTERNAL



DETAIL 31



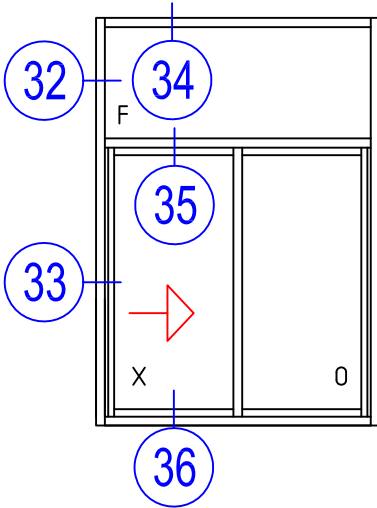
*path*

thermal break window system

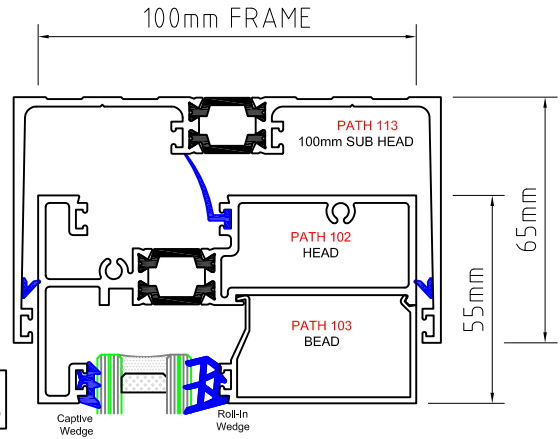
# DETAILS

100mm SLIDING WINDOW / DOOR - JAMB - TRANSOM

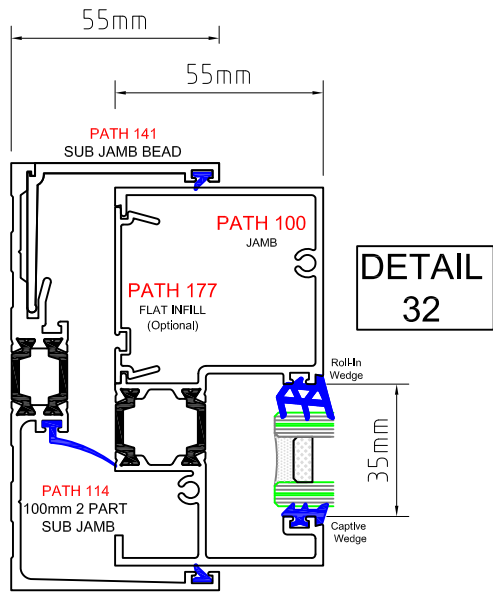
SCALE 1:2



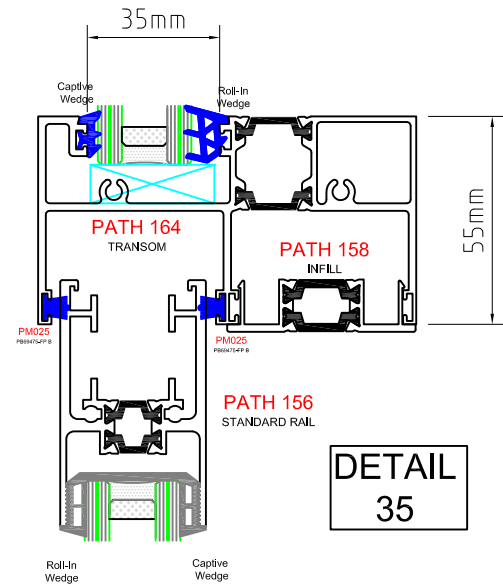
**DETAIL 34**



**EXTERNAL**

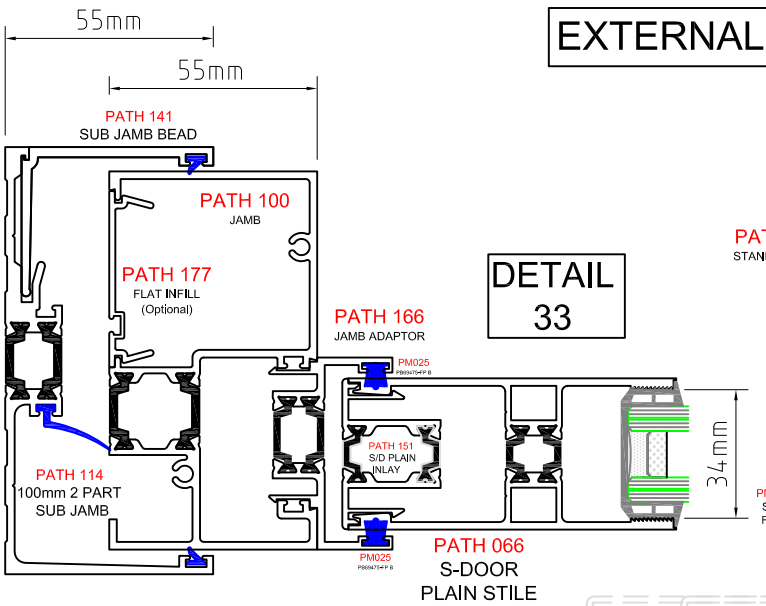


**DETAIL 32**



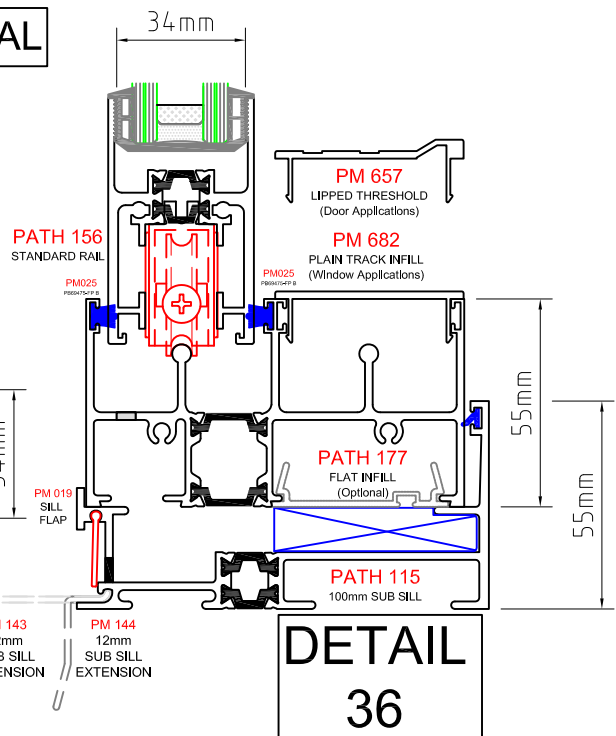
**DETAIL 35**

**EXTERNAL**



**DETAIL 33**

**EXTERNAL**



**DETAIL 36**

*path*

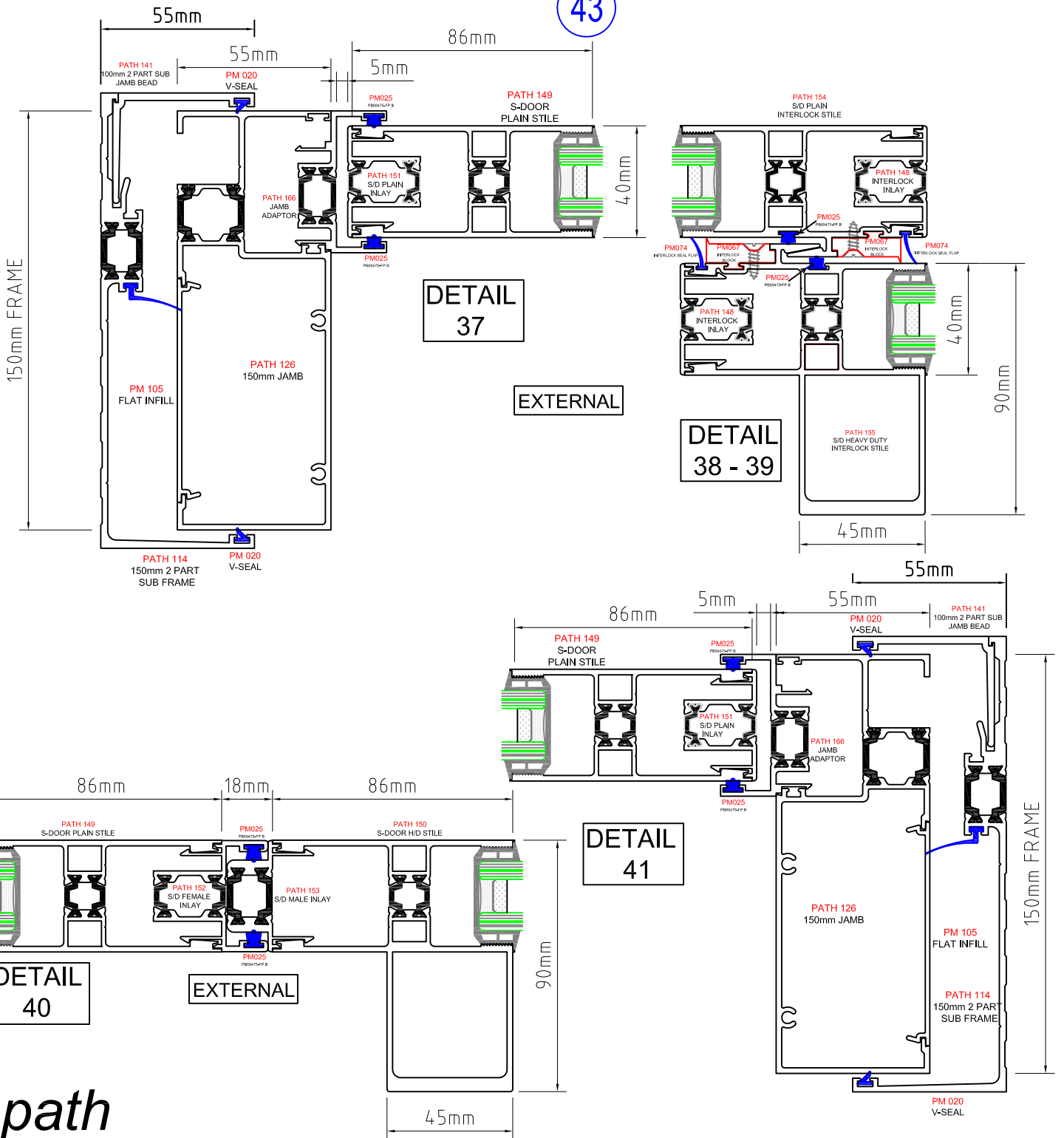
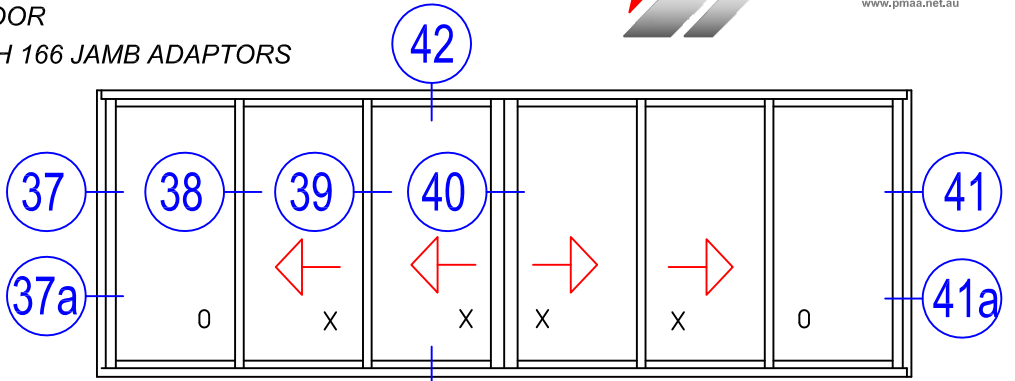
thermal break window system

# DETAILS

150mm OXXXXO - STACKER DOOR

PATH 126 PLAIN JAMBS & PATH 166 JAMB ADAPTORS

SCALE 1:2



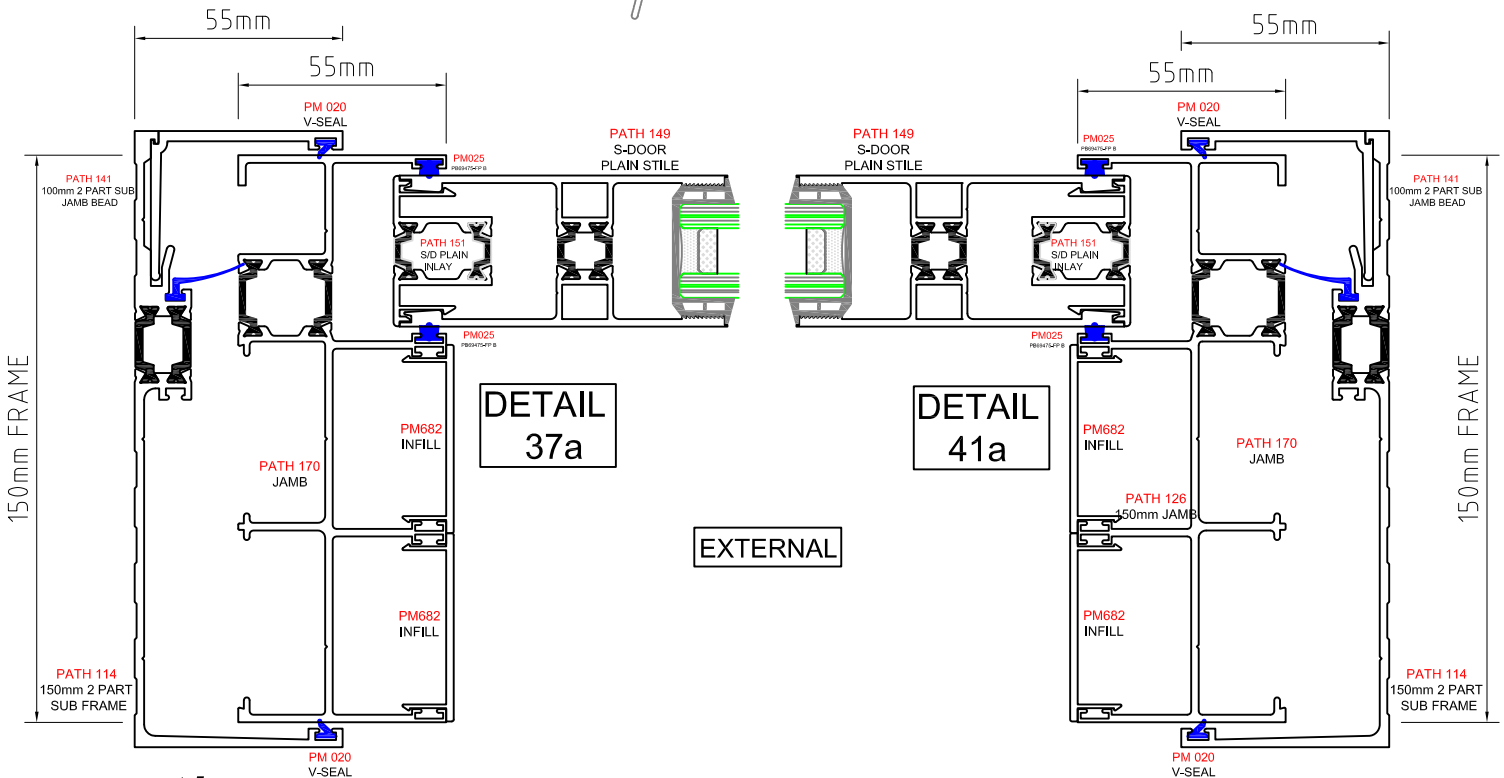
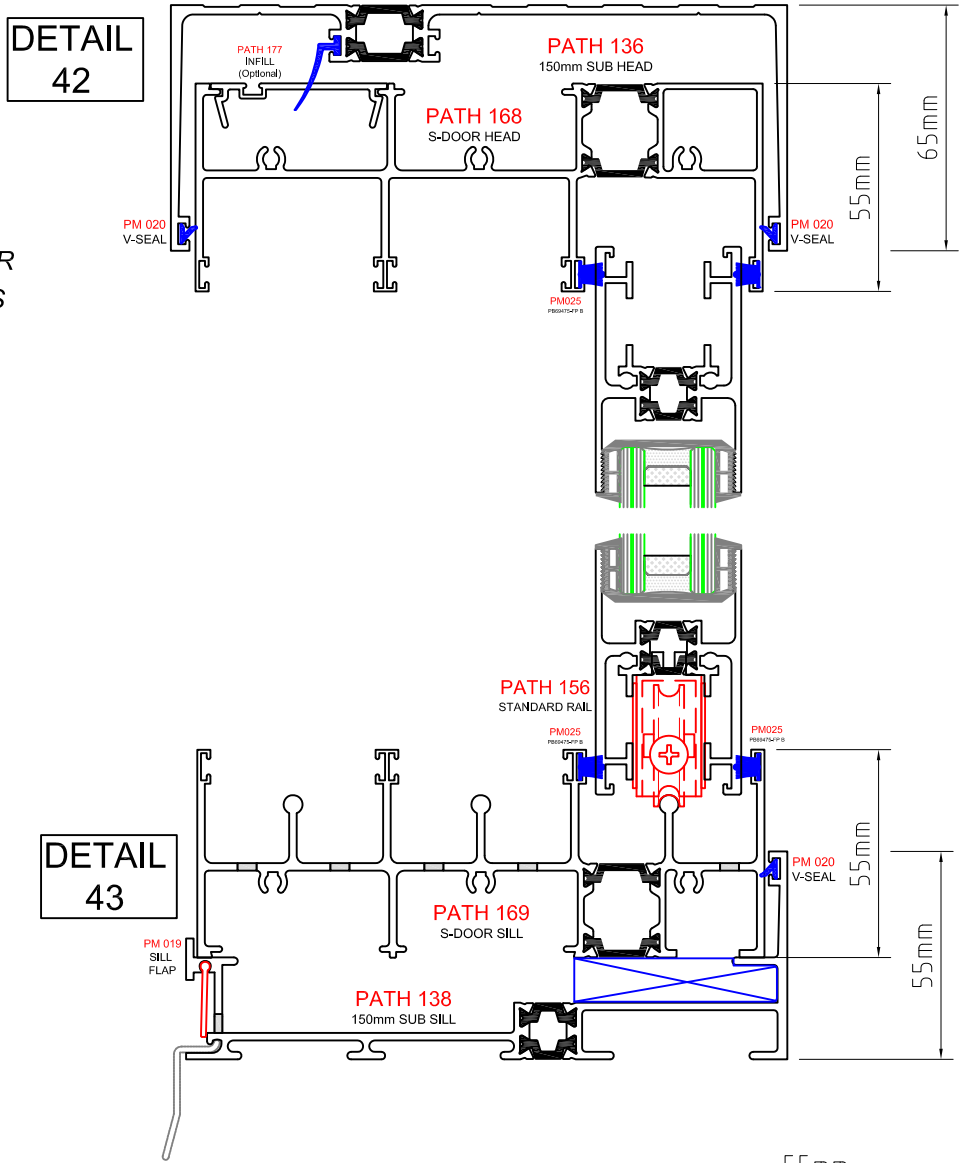
*path*

thermal break window system

# DETAILS

150mm OXXXXO - STACKER DOOR  
PATH 170 JAMBS & PM682 INFILLS

SCALE 1:2



**path**

thermal break window system

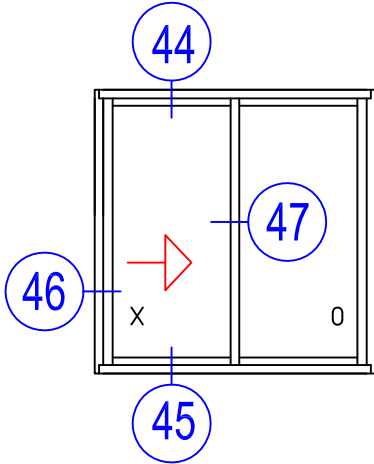
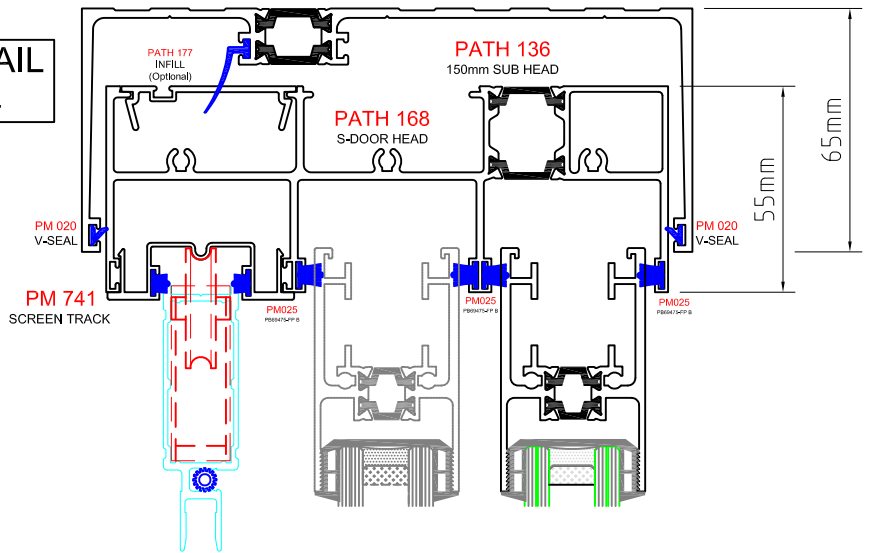




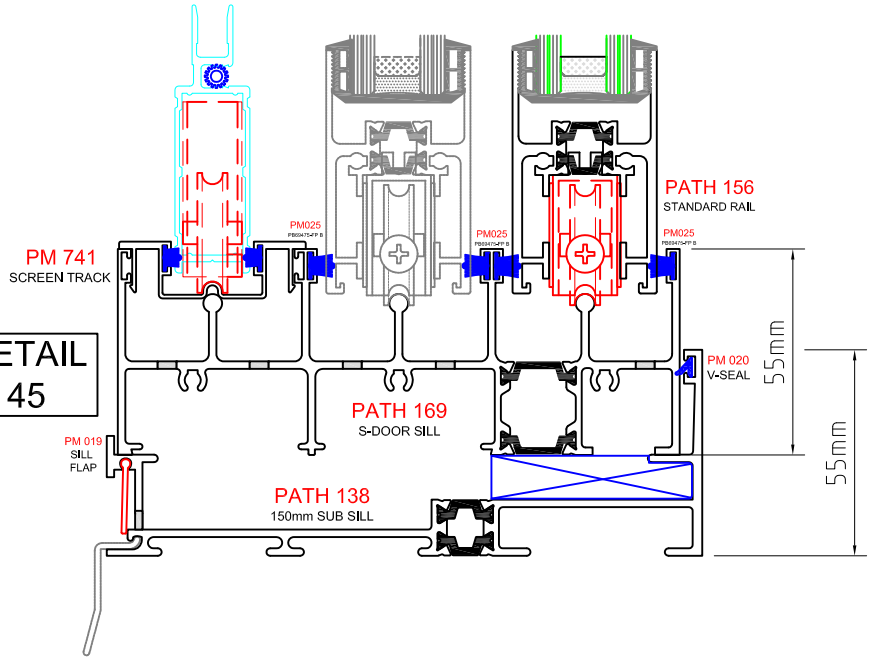
# DETAILS

150mm XO - SLIDING DOOR  
 FLY & SECURITY SCREEN  
 SCALE 1:2

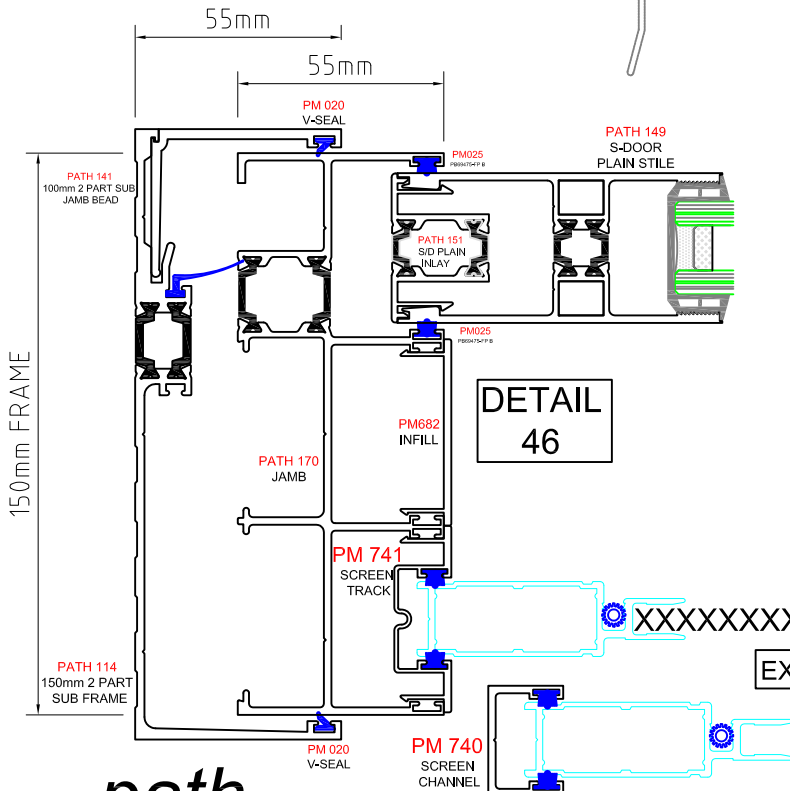
**DETAIL 44**



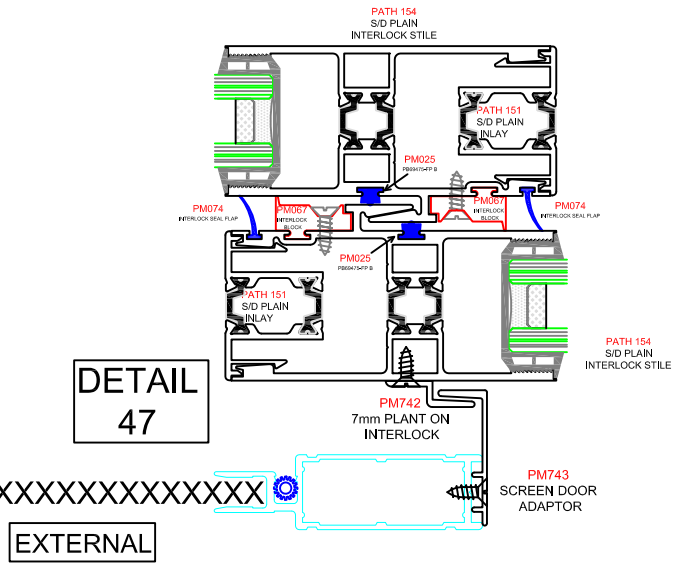
**DETAIL 45**



**DETAIL 46**



**DETAIL 47**



EXTERNAL









*path*

## GLAZING DETAILS

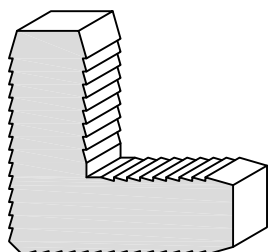
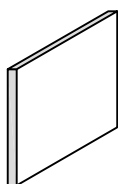
### GUIDE TO - TYPICAL GLAZING COMBINATIONS GASKET TYPE GLAZING (35mm Pocket)

IGU TYPE & THICKNESS	CAPTIVE WEDGE	ROLL-IN WEDGE
6 - 12a - 6 (24mm)	PM001	PM007
8 - 12a - 6 (26mm)	PM001	PM008
10.5 - 12a - 6 (28.5mm)	PM002	PM005
10.5 - 12a - 8 (30.5mm)	PM003	PM008
10.5 - 10a - 10 (30.5mm)	PM003	PM008
10.5 - 10a - 8 (28.5mm)	PM002	PM005

### WEDGE TYPES (P.V.C MATERIAL)

							
White Back	Red Back	Blue Back					
Captive Part No:	Captive Part No:	Captive Part No:	Roll in Part No:	Roll in Part No:	Roll in Part No:	Roll in Part No:	Roll in Part No:
PM 001	PM 002	PM 003	PM 004	PM 005	PM 006	PM 007	PM 008

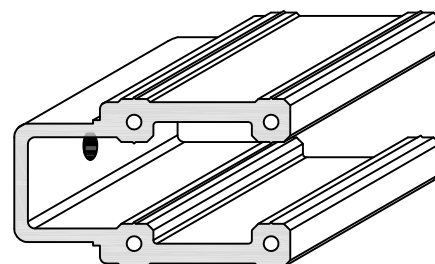
**PM0022**  
SASH CORNER SLEEVE  
(4 Pieces per Sash)



**PM0021**  
SASH CORNER  
STAKE (8 Pieces per Sash)



**PM0003**  
DORIC DH 114 - DOOR HINGE

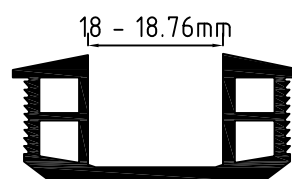
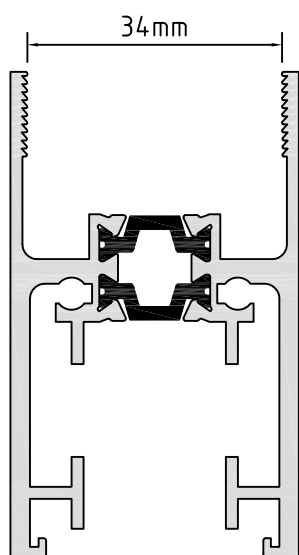


**PATH 179**  
PATH SPIGOT  
SET - 4 Pieces

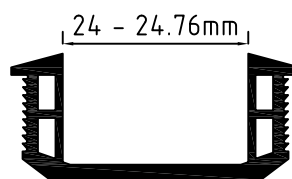
**path**

thermal break window system

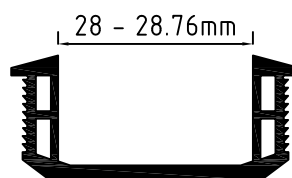
## GLAZING GASKET DETAILS









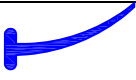
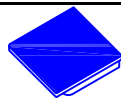

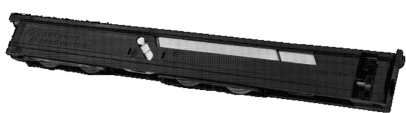
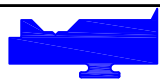
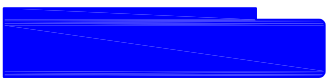




PM 044



PM 045



PM 046

SHAPE	PART No:	FITS TO SECTIONS
	PM019 19mm SILL FLAP (Marco)	PATH 115, PATH 138
	PM020 MULLION / SUB FRAME V SEAL (Marco)	PATH 106, 113, 114, 115, 133, 136, 137, 138 PM141
	PM 021 DOOR STOP BULB SEAL (Marco)	PM 722, PATH 184
	PM054 AWNING SASH BULB SEAL (Marco)	PATH 122, 123
	PM 025 FINNED WOOL PILE 4.75 H x 6.7 B	PATH 152, 154, 155, 159, 160, 161, 163, 164, 165, 166, 168, 169, 170, 171 PM175, 445, 654, 675, 683
	PM 071 NON-FINNED WOOL PILE 4.75 H x 6.7 B	PATH 152, 154, 155, 159, 160, 161, 163, 164, 165, 166, 168, 169, 170, 171 PM175, 445, 654, 675, 683
	PM 074 INTERLOCK FLAP SEAL (Marco)	PATH 154, 155
	PM 075 PLASTIC STILE CAP SET (10 Pieces)	PATH 150, 155
	PM 065 100kg DOUBLE WHEEL ROLLER (Each)	PATH 156
	PM 059 150kg QUAD WHEEL ROLLER (Each)	PATH 156
	PM067 INTERLOCK BLOCK (50 Pieces)	PATH 154, 155
	PM048 SILL SUPPORT BLOCK (50 Pieces)	PATH 115, PATH 138
	FIXED LITE SUPPORT BLOCK	
	DORIC SINGLE CHAIN WINDER	
	DORIC DOUBLE CHAIN WINDER	
	DORIC LEVER HANDLE SASH CATCH SET	



# **SECTION: B**

***Strength Charts - Computations -  
WERS Ratings - Test Reports***

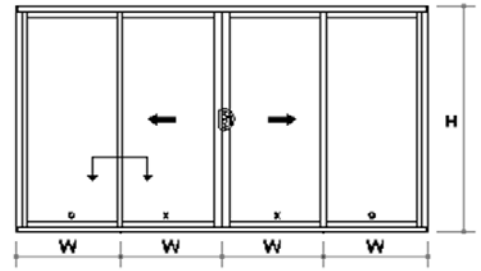
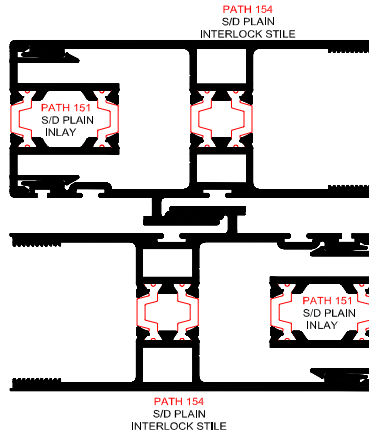
**Pages: B01 to B29**

*path*

thermal  break window system

**PAGE - B**

INTERLOCKS:	
PATH 154	PATH 154
$I_{xx} = 173.86 \times 10^9 \text{ mm}^4$	$I_{xx} = 173.86 \times 10^9 \text{ mm}^4$
$y \text{ max} = 25.8\text{mm}$	$y \text{ max} = 25.8\text{mm}$
Moment of Inertia = $402.6 \times 10^3 \text{ mm}^4$	
Max Depth of Section from N Axis = 25.8mm	
E - Modulus = 69 Gpa	
Ultimate Stress = 110 Mpa	
Z Section Modules = 15.6	
Panel Width Increments: 100mm	
Panel Height Increments: 100mm	



PATH 148 $I_{xx} = 27.44 \times 10^9 \text{ mm}^4$ $y \text{ max} = 24.9\text{mm}$		SERVICABILITY 1/250	ULTIMATE U		LIMITATIONS: Servicability to 5000Pa Ultimate to 8000Pa					
		W = Panel Width (mm) (W)								
Door Height (mm) (H)	Servicability	700	800	900	1000	1100	1200	1300	1400	1500
2000	250	1586	1431	1245	1157	1089	1033	959	925	898
	U	5113	4533	4091	3745	3471	3251	3074	2931	2817
2100	250	1356	1222	1060	984	924	875	810	779	754
	U	4619	4090	3685	3368	3116	2912	2746	2611	2501
2200	250	1169	1051	911	844	791	747	712	663	640
	U	4195	3710	3339	3047	2814	2625	2470	2343	2238
2300	250	1015	911	832	729	682	644	612	568	548
	U	3827	3381	3039	2770	2555	2379	2235	2115	2016
2400	250	886	795	725	635	592	558	530	507	472
	U	3505	3095	2779	2530	2331	2167	2033	1921	1827
2500	250	779	698	635	586	518	487	462	441	423
	U	3223	2843	2551	2321	2135	1983	1858	1753	1664
2600	250	688	616	560	516	456	428	405	386	370
	U	2974	2622	2351	2137	1964	1822	1705	1606	1523
2700	250	611	546	496	457	403	378	357	340	326
	U	2753	2426	2173	1974	1813	1680	1570	1478	1400
2800	250	545	487	442	406	378	336	317	301	288
	U	2555	2251	2016	1829	1679	1555	1452	1365	1291
2900	250	488	436	395	363	337	299	282	268	256
	U	2379	2094	1874	1700	1559	1443	1346	1265	1195
3000	250	439	391	355	326	302	283	253	240	229
	U	2220	1954	1748	1584	1452	1343	1252	1175	1110
3100	250	396	353	320	293	272	254	227	215	205
	U	2077	1827	1634	1480	1356	1253	1168	1095	1033
3200	250	359	319	289	265	245	229	205	194	185
	U	1947	1712	1530	1386	1269	1172	1092	1023	965
3300	250	326	290	262	240	222	208	195	175	167
	U	1829	1608	1437	1301	1190	1099	1023	958	903
3400	250	297	264	239	219	202	189	177	159	151
	U	1721	1513	1351	1223	1119	1033	961	899	847
3500	250	290	241	218	199	184	172	161	153	137
	U	1623	1426	1274	1152	1054	972	904	846	796
3600	250	266	221	199	182	168	157	147	139	125
	U	1533	1347	1202	1088	994	917	852	797	750
3700	250	244	203	183	167	154	144	135	127	115
	U	1450	1274	1137	1028	940	866	805	752	707
3800	250	225	187	168	154	142	132	124	117	111
	U	1374	1207	1077	973	889	820	761	711	669
3900	250	208	172	155	142	131	122	114	108	102
	U	1304	1145	1021	923	843	777	721	674	633

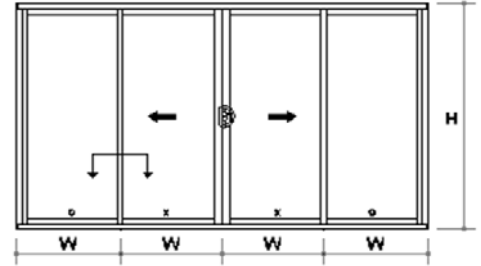
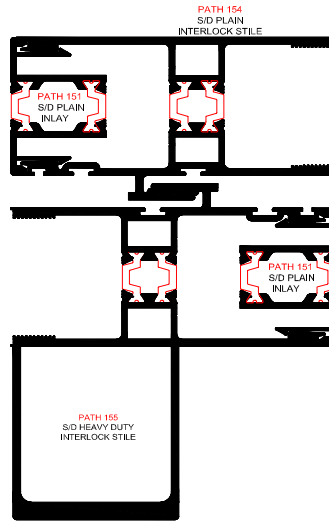
**INTERLOCK SELECTION TABLE**

**PATH SERIES - Thermal Break**

**SLIDING DOORS - Double Glazing**

**B01**

INTERLOCKS:	
PATH 154	PATH 155
$I_{xx} = 173.86 \times 10^9 \text{ mm}^4$	$I_{xx} = 1098.17 \times 10^9 \text{ mm}^4$
$y \text{ max} = 25.8\text{mm}$	$y \text{ max} = 48.84\text{mm}$
Moment of Inertia = $1326.91 \times 10^9 \text{ mm}^4$	
Max Depth of Section from N Axis = 48.84mm	
E - Modulus = 69 Gpa	
Ultimate Stress = 110 Mpa	
Z Section Modules = 27.2	
Panel Width Increments: 100mm	
Panel Height Increments: 100mm	



PATH 148 $I_{xx} = 27.44 \times 10^9 \text{ mm}^4$ $y \text{ max} = 24.9\text{mm}$		SERVICABILITY 1/250	ULTIMATE U		LIMITATIONS: Servicability to 5000Pa Ultimate to 8000Pa					
		W = Panel Width (mm) (W)								
Door Height (mm) (H)	Servicability	700	800	900	1000	1100	1200	1300	1400	1500
2000	250	5000	4716	4102	3815	3588	3406	3162	3049	2959
	U	8000	7892	7122	6520	6043	5660	5351	5103	4904
2100	250	4470	4026	3495	3244	3044	2883	2670	2568	2485
	U	8000	7121	6417	5865	5425	5070	4781	4546	4355
2200	250	3853	3465	3003	2782	2606	2463	2347	2184	2108
	U	7303	6459	5813	5305	4899	4570	4300	4079	3897
2300	250	3344	3003	2742	2404	2248	2121	2017	1873	1805
	U	6662	5887	5292	4823	4448	4142	3891	3683	3511
2400	250	2921	2620	2389	2091	1953	1840	1747	1670	1557
	U	6103	5388	4839	4406	4058	3773	3539	3344	3181
2500	250	2567	2300	2094	1932	1707	1606	1523	1453	1395
	U	5611	4951	4442	4041	3717	3453	3234	3051	2898
2600	250	2268	2030	1846	1701	1502	1411	1336	1273	1220
	U	5178	4565	4093	3720	3419	3173	2968	2797	2652
2700	250	2014	1800	1636	1506	1328	1246	1178	1121	1073
	U	4793	4223	3784	3437	3156	2926	2734	2573	2437
2800	250	1796	1604	1456	1339	1244	1106	1045	993	949
	U	4449	3919	3509	3185	2923	2707	2527	2376	2248
2900	250	1609	1436	1302	1196	1111	986	930	884	844
	U	4142	3646	3263	2960	2715	2512	2344	2202	2081
3000	250	1446	1290	1169	1073	996	932	832	790	754
	U	3865	3401	3043	2759	2528	2338	2180	2046	1932
3100	250	1305	1163	1054	966	896	838	748	709	676
	U	3616	3180	2844	2577	2361	2182	2033	1907	1799
3200	250	1182	1053	953	873	809	756	674	639	608
	U	3389	2981	2664	2413	2210	2041	1901	1781	1680
3300	250	1074	956	864	792	733	684	644	577	550
	U	3184	2799	2501	2265	2073	1914	1781	1668	1572
3400	250	978	870	787	720	666	622	584	524	498
	U	2997	2634	2353	2130	1948	1798	1672	1566	1474
3500	250	957	795	718	657	607	566	532	503	453
	U	2826	2483	2217	2006	1835	1693	1574	1473	1386
3600	250	877	728	657	601	555	518	486	459	413
	U	2669	2345	2093	1893	1731	1596	1484	1388	1305
3700	250	805	668	603	551	509	474	445	420	378
	U	2525	2218	1979	1790	1636	1508	1401	1310	1232
3800	250	741	615	555	507	468	435	408	385	366
	U	2392	2101	1875	1695	1548	1427	1325	1239	1164
3900	250	684	567	511	467	431	401	376	354	336
	U	2270	1993	1778	1607	1468	1353	1256	1173	1102

**INTERLOCK SELECTION TABLE**

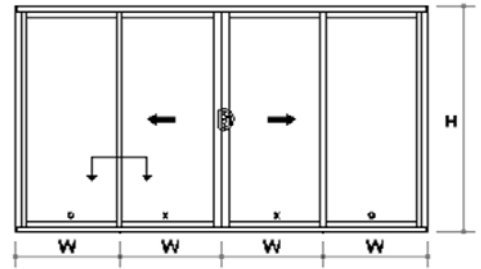
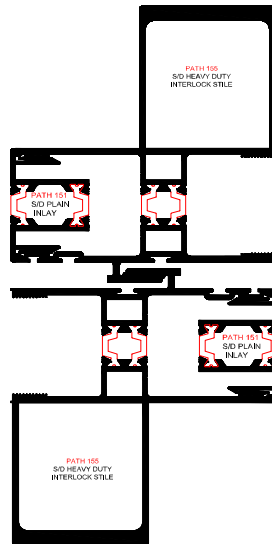
**PATH SERIES - Thermal Break**

**SLIDING DOORS - Double Glazing**

**B02**

## PATH SERIES "THERMAL BREAK" SLIDING DOOR

INTERLOCKS:	
<b>PATH 155</b>	<b>PATH 155</b>
$I_{xx} = 1098.17 \times 10^3 \text{ mm}^4$	$I_{xx} = 1098.17 \times 10^3 \text{ mm}^4$
$y \text{ max} = 48.84\text{mm}$	$y \text{ max} = 48.84\text{mm}$
Moment of Inertia = $2251.22 \times 10^3 \text{ mm}^4$	
Max Depth of Section from N Axis = 48.84mm	
E - Modulus = 69 Gpa	
Ultimate Stress = 110 Mpa	
Z Section Modules = 46.1	
Panel Width Increments: 100mm	
Panel Height Increments: 100mm	



<b>PATH 148</b> $I_{xx} = 27.44 \times 10^3 \text{ mm}^4$ $y \text{ max} = 24.9\text{mm}$		<b>SERVICABILITY</b> 1/250		<b>ULTIMATE</b> U		<b>LIMITATIONS: Servicability to 5000Pa</b> Ultimate to 8000Pa				
		<b>W = Panel Width (mm) (W)</b>								
<b>Door Height (mm) (H)</b>	<b>Servicability</b>	<b>700</b>	<b>800</b>	<b>900</b>	<b>1000</b>	<b>1100</b>	<b>1200</b>	<b>1300</b>	<b>1400</b>	<b>1500</b>
2000	250	5000	5000	5000	5000	5000	5000	5000	5000	5000
	U	8000	8000	8000	8000	8000	8000	8000	8000	8000
2100	250	5000	5000	5000	5000	5000	4892	4530	4357	4217
	U	8000	8000	8000	8000	8000	8000	8000	7712	7388
2200	250	5000	5000	5000	4720	4421	4179	3982	3705	3577
	U	8000	8000	8000	8000	8000	7753	7296	6920	6612
2300	250	5000	5000	4651	4078	3813	3598	3422	3178	3062
	U	8000	8000	8000	8000	7546	7027	6601	6249	5956
2400	250	4956	4445	4053	3548	3313	3121	2963	2833	2641
	U	8000	8000	8000	7475	6884	6402	6004	5674	5398
2500	250	4355	3902	3553	3277	2897	2725	2584	2466	2367
	U	8000	8000	7537	6856	6307	5858	5487	5177	4917
2600	250	3848	3443	3132	2886	2547	2394	2266	2160	2070
	U	8000	7745	6944	6312	5801	5383	5035	4745	4499
2700	250	3416	3054	2775	2554	2252	2114	1999	1902	1821
	U	8000	7165	6420	5831	5355	4964	4639	4366	4135
2800	250	3047	2722	2471	2272	2111	1876	1772	1685	1611
	U	7548	6648	5954	5404	4959	4593	4288	4032	3814
2900	250	2729	2436	2209	2030	1884	1673	1579	1499	1432
	U	7027	6186	5537	5022	4606	4263	3976	3735	3530
3000	250	2454	2188	1983	1821	1689	1581	1412	1340	1278
	U	6558	5770	5163	4680	4289	3967	3698	3471	3278
3100	250	2215	1974	1787	1640	1520	1421	1269	1203	1146
	U	6134	5396	4825	4373	4005	3702	3449	3235	3052
3200	250	2005	1786	1616	1482	1372	1282	1144	1084	1032
	U	5751	5057	4521	4094	3749	3463	3224	3022	2849
3300	250	1822	1622	1467	1344	1244	1161	1092	980	932
	U	5402	4749	4244	3842	3516	3247	3021	2830	2667
3400	250	1660	1477	1335	1222	1130	1055	991	889	845
	U	5085	4469	3992	3613	3305	3051	2837	2656	2502
3500	250	1624	1348	1218	1115	1031	961	903	853	769
	U	4794	4212	3762	3404	3113	2872	2670	2498	2351
3600	250	1488	1235	1115	1020	942	878	824	779	701
	U	4528	3978	3552	3212	2937	2709	2517	2354	2215
3700	250	1366	1134	1023	935	864	804	755	712	641
	U	4284	3762	3358	3037	2775	2559	2377	2222	2090
3800	250	1258	1043	941	860	794	739	693	654	620
	U	4059	3564	3181	2875	2627	2421	2249	2102	1975
3900	250	1160	962	867	792	731	680	638	601	570
	U	3851	3381	3017	2727	2490	2295	2130	1990	1870

## INTERLOCK SELECTION TABLE

**PATH SERIES - Thermal Break**

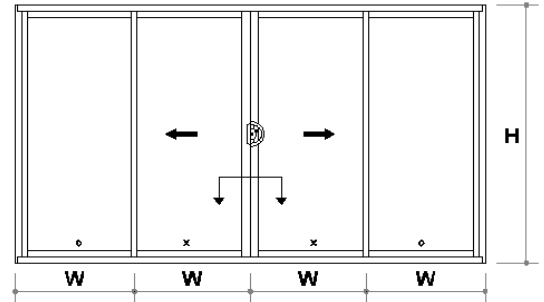
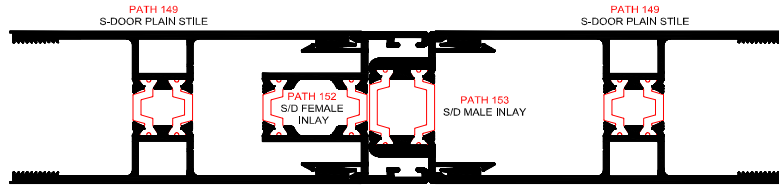
**SLIDING DOORS - Double Glazing**

**B03**



## PATH SERIES "THERMAL BREAK" SLIDING DOOR

MEETING STILES:	
PATH 149	PATH 149
$I_{xx} = 151.88 \times 10^3 \text{ mm}^4$	$I_{xx} = 151.88 \times 10^3 \text{ mm}^4$
$y \text{ max} = 20.0\text{mm}$	$y \text{ max} = 20.0\text{mm}$
Moment of Inertia = $366.32 \times 10^3 \text{ mm}^4$	
Max Depth of Section from N Axis = 20.0mm	
E - Modulus = 69 Gpa	
Ultimate Stress = 110 Mpa	
Z Section Modules = 18.3	
Panel Width Increments: 100mm	
Panel Height Increments: 100mm	



PATH 152 $I_{xx} = 35.34 \times 10^3 \text{ mm}^4$ $y \text{ max} = 19.9\text{mm}$	PATH 153 $I_{xx} = 27.22 \times 10^3 \text{ mm}^4$ $y \text{ max} = 19.9\text{mm}$	SERVICABILITY 1/250	ULTIMATE U		LIMITATIONS: Servicability to 5000Pa Ultimate to 8000Pa					
W = Panel Width (mm) (W)										
Door Height (mm) (H)	Servicability	700	800	900	1000	1100	1200	1300	1400	1500
2000	250	1443	1302	1132	1053	990	940	873	842	817
	U	6002	5321	4801	4396	4074	3816	3608	3440	3306
2100	250	1234	1111	965	896	840	796	737	709	686
	U	5422	4801	4326	3954	3657	3418	3223	3065	2936
2200	250	1064	956	829	768	719	680	648	603	582
	U	4924	4355	3919	3576	3303	3081	2899	2750	2627
2300	250	923	829	757	664	621	586	557	517	498
	U	4491	3969	3568	3252	2999	2792	2623	2483	2367
2400	250	807	723	659	577	539	508	482	461	430
	U	4114	3632	3262	2970	2735	2544	2386	2254	2145
2500	250	709	635	578	533	471	443	420	401	385
	U	3783	3338	2995	2724	2506	2328	2180	2057	1954
2600	250	626	560	510	470	415	389	369	351	337
	U	3491	3078	2759	2508	2305	2139	2001	1885	1788
2700	250	556	497	452	416	367	344	325	310	296
	U	3231	2847	2551	2317	2128	1972	1843	1735	1643
2800	250	496	443	402	370	344	305	288	274	262
	U	2999	2642	2366	2147	1970	1825	1704	1602	1516
2900	250	444	396	359	330	307	272	257	244	233
	U	2792	2458	2200	1996	1830	1694	1580	1484	1403
3000	250	399	356	323	296	275	257	230	218	208
	U	2606	2293	2051	1860	1704	1576	1470	1379	1302
3100	250	360	321	291	267	247	231	206	196	187
	U	2437	2144	1917	1737	1592	1471	1371	1285	1213
3200	250	326	291	263	241	223	209	186	176	168
	U	2285	2009	1796	1627	1490	1376	1281	1201	1132
3300	250	296	264	239	219	202	189	178	159	152
	U	2147	1887	1686	1527	1397	1290	1201	1125	1060
3400	250	270	240	217	199	184	172	161	145	138
	U	2020	1776	1586	1436	1313	1212	1127	1056	994
3500	250	264	219	198	181	168	156	147	139	125
	U	1905	1674	1495	1353	1237	1141	1061	993	934
3600	250	242	201	181	166	153	143	134	127	114
	U	1799	1581	1411	1277	1167	1076	1000	936	880
3700	250	222	184	166	152	141	131	123	116	104
	U	1702	1495	1334	1207	1103	1017	945	883	830
3800	250	205	170	153	140	129	120	113	106	101
	U	1613	1416	1264	1143	1044	962	893	835	785
3900	250	189	157	141	129	119	111	104	98	93
	U	1530	1343	1199	1083	990	912	847	791	743

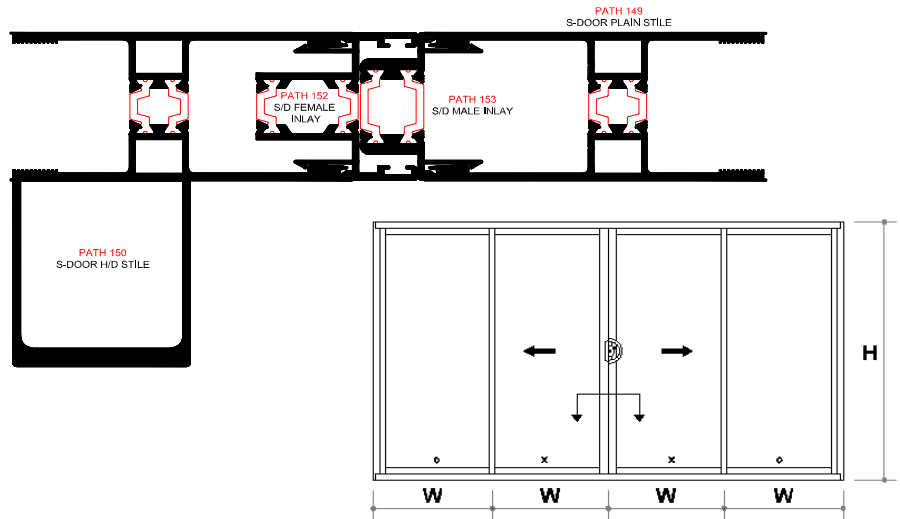
### MEETING STILE SELECTION TABLE

**PATH SERIES - Thermal Break**

**SLIDING DOORS - Double Glazing**

**B04**

MEETING STILES:	
PATH 149	PATH 150
$I_{xx} = 151.88 \times 10^3 \text{ mm}^4$	$I_{xx} = 1034.95 \times 10^3 \text{ mm}^4$
$y \text{ max} = 20.0\text{mm}$	$y \text{ max} = 47.7\text{mm}$
Moment of Inertia = $1249.39 \times 10^3 \text{ mm}^4$	
Max Depth of Section from N Axis = 47.7mm	
E - Modulus = 69 Gpa	
Ultimate Stress = 110 Mpa	
Z Section Modules = 26.2	
Panel Width Increments: 100mm	
Panel Height Increments: 100mm	



PATH 152 $I_{xx} = 35.34 \times 10^3 \text{ mm}^4$ $y \text{ max} = 19.9\text{mm}$	PATH 153 $I_{xx} = 27.22 \times 10^3 \text{ mm}^4$ $y \text{ max} = 19.9\text{mm}$	SERVICABILITY 1/250	ULTIMATE U	LIMITATIONS: Servicability to 5000Pa Ultimate to 8000Pa						
W = Panel Width (mm) (W)										
Door Height (mm) (H)	Servicability	700	800	900	1000	1100	1200	1300	1400	1500
2000	250	4921	4441	3862	3592	3378	3207	2977	2871	2787
	U	8000	7609	6866	6286	5826	5457	5159	4920	4728
2100	250	4209	3791	3291	3054	2866	2715	2514	2418	2340
	U	7754	6865	6186	5654	5230	4888	4609	4383	4198
2200	250	3627	3262	2827	2619	2453	2319	2210	2056	1985
	U	7041	6227	5604	5115	4723	4405	4146	3932	3757
2300	250	3149	2828	2581	2263	2116	1997	1899	1764	1699
	U	6423	5675	5102	4650	4288	3993	3751	3551	3385
2400	250	2751	2467	2249	1969	1839	1732	1645	1572	1466
	U	5883	5194	4665	4247	3912	3638	3412	3224	3067
2500	250	2417	2165	1972	1819	1608	1512	1434	1368	1314
	U	5410	4773	4283	3896	3584	3329	3118	2942	2794
2600	250	2135	1911	1738	1602	1414	1328	1258	1199	1149
	U	4992	4401	3946	3587	3296	3059	2861	2696	2557
2700	250	1896	1695	1540	1418	1250	1173	1109	1056	1011
	U	4620	4071	3648	3313	3043	2821	2636	2481	2350
2800	250	1691	1510	1371	1261	1172	1041	984	935	894
	U	4289	3778	3383	3071	2818	2610	2437	2291	2167
2900	250	1515	1352	1226	1126	1046	929	876	832	795
	U	3993	3515	3146	2854	2617	2422	2260	2123	2006
3000	250	1362	1215	1101	1010	937	877	784	744	710
	U	3726	3279	2934	2660	2437	2254	2102	1973	1863
3100	250	1229	1095	992	910	843	789	704	667	636
	U	3486	3066	2742	2485	2276	2104	1960	1838	1734
3200	250	1113	991	897	822	762	712	635	601	573
	U	3268	2874	2569	2327	2130	1968	1832	1717	1619
3300	250	1011	900	814	746	690	644	606	544	517
	U	3070	2699	2412	2183	1998	1845	1717	1608	1515
3400	250	921	819	741	678	627	585	550	493	469
	U	2889	2539	2268	2053	1878	1734	1612	1510	1421
3500	250	901	748	676	619	572	533	501	473	427
	U	2724	2394	2138	1934	1769	1632	1517	1420	1336
3600	250	826	685	619	566	523	487	457	432	389
	U	2573	2260	2018	1825	1669	1539	1430	1338	1259
3700	250	758	629	568	519	479	446	419	395	356
	U	2434	2138	1908	1726	1577	1454	1351	1263	1188
3800	250	698	579	522	477	440	410	384	363	344
	U	2306	2025	1807	1634	1493	1376	1278	1194	1122
3900	250	644	534	481	440	406	377	354	334	316
	U	2188	1921	1714	1549	1415	1304	1211	1131	1063

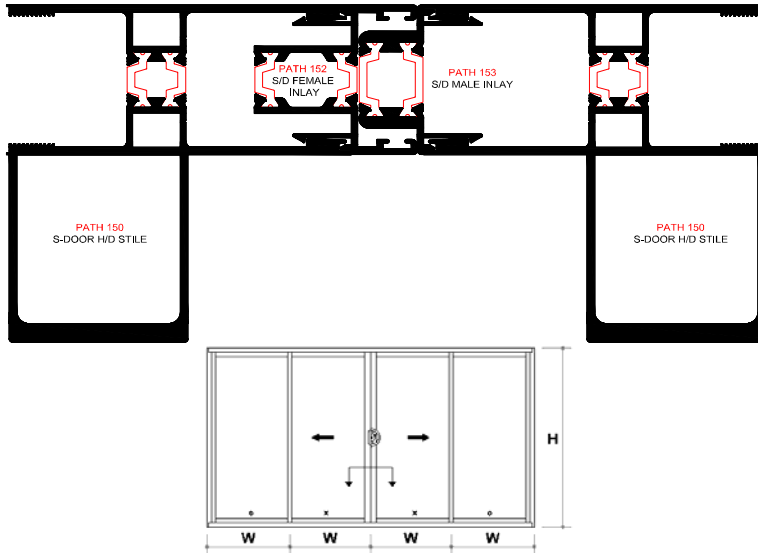
**MEETING STILE SELECTION TABLE**

**PATH SERIES - Thermal Break**

**SLIDING DOORS - Double Glazing**

**B05**

MEETING STILES:	
PATH 150	PATH 150
$I_{xx} = 1034.95 \times 10^3 \text{ mm}^4$	$I_{xx} = 1034.95 \times 10^3 \text{ mm}^4$
$y \text{ max} = 47.7 \text{ mm}$	$y \text{ max} = 47.7 \text{ mm}$
Moment of Inertia = $2132.46 \times 10^3 \text{ mm}^4$	
Max Depth of Section from N Axis = 47.7mm	
E - Modulus = 69 Gpa	
Ultimate Stress = 110 Mpa	
Z Section Modules = 44.7	
Panel Width Increments: 100mm	
Panel Height Increments: 100mm	



PATH 152 $I_{xx} = 35.34 \times 10^3 \text{ mm}^4$ $y \text{ max} = 19.9 \text{ mm}$	PATH 153 $I_{xx} = 27.22 \times 10^3 \text{ mm}^4$ $y \text{ max} = 19.9 \text{ mm}$	SERVICABILITY 1/250	ULTIMATE U		LIMITATIONS: Servicability to 5000Pa Ultimate to 8000Pa					
W = Panel Width (mm) (W)										
Door Height (mm) (H)	Servicability	700	800	900	1000	1100	1200	1300	1400	1500
2000	250	5000	5000	5000	5000	5000	5000	5000	4900	4756
	U	8000	8000	8000	8000	8000	8000	8000	8000	8000
2100	250	5000	5000	5000	5000	4892	4634	4291	4127	3994
	U	8000	8000	8000	8000	8000	8000	7867	7480	7166
2200	250	5000	5000	4826	4471	4187	3958	3772	3509	3388
	U	8000	8000	8000	8000	8000	7519	7076	6712	6413
2300	250	5000	4826	4406	3863	3612	3409	3242	3010	2900
	U	8000	8000	8000	7937	7319	6816	6402	6061	5777
2400	250	4695	4211	3839	3361	3138	2957	2807	2683	2502
	U	8000	8000	7962	7250	6677	6209	5823	5503	5235
2500	250	4126	3696	3365	3104	2744	2581	2447	2336	2242
	U	8000	8000	7310	6649	6117	5682	5322	5021	4769
2600	250	3645	3262	2967	2734	2413	2267	2147	2046	1961
	U	8000	7512	6735	6122	5626	5220	4884	4602	4364
2700	250	3236	2893	2629	2420	2134	2002	1893	1802	1725
	U	7886	6949	6227	5655	5193	4814	4499	4234	4010
2800	250	2886	2578	2340	2152	2000	1777	1679	1596	1526
	U	7321	6448	5774	5241	4809	4454	4159	3910	3699
2900	250	2585	2307	2093	1923	1785	1585	1495	1420	1356
	U	6815	6000	5370	4871	4467	4134	3857	3623	3424
3000	250	2324	2073	1879	1725	1600	1497	1338	1269	1211
	U	6360	5597	5007	4539	4160	3848	3587	3367	3179
3100	250	2098	1869	1693	1553	1440	1346	1202	1139	1086
	U	5949	5233	4680	4241	3885	3591	3345	3137	2960
3200	250	1900	1692	1531	1404	1300	1215	1084	1026	977
	U	5577	4905	4384	3971	3636	3359	3127	2931	2764
3300	250	1726	1536	1389	1273	1178	1100	1034	928	883
	U	5239	4606	4116	3727	3410	3149	2930	2745	2587
3400	250	1572	1399	1264	1158	1071	999	939	842	801
	U	4931	4334	3872	3504	3206	2959	2752	2576	2426
3500	250	1538	1277	1154	1056	976	910	855	808	728
	U	4650	4086	3649	3301	3019	2785	2589	2423	2281
3600	250	1409	1170	1056	966	892	832	781	738	664
	U	4392	3858	3445	3116	2848	2627	2441	2283	2148
3700	250	1294	1074	969	886	818	762	715	675	607
	U	4155	3649	3257	2945	2692	2482	2305	2156	2027
3800	250	1191	988	891	814	752	700	656	619	587
	U	3937	3457	3085	2789	2548	2348	2181	2038	1916
3900	250	1099	911	822	750	692	644	604	569	540
	U	3735	3279	2926	2644	2415	2226	2066	1930	1814

**MEETING STILE SELECTION TABLE**

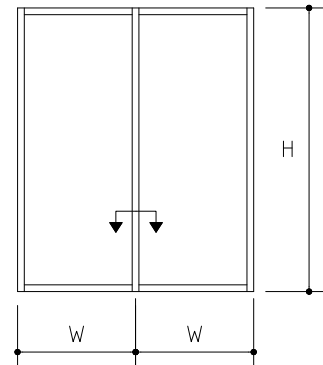
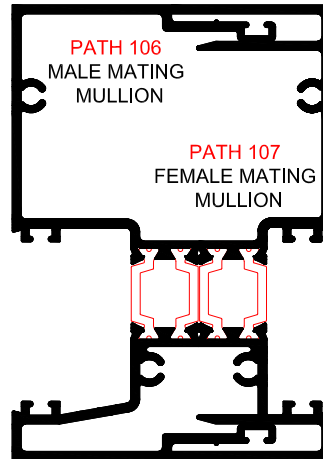
**PATH SERIES - Thermal Break**

**SLIDING DOORS - Double Glazing**

**B06**

## PATH SERIES "THERMAL BREAK" MULLION

MULLION: 100mm x 70mm	
PATH 106	PATH 107
Ixx = 1002.23 x 10 <sup>3</sup> mm <sup>4</sup>	Ixx = 682.26 x 10 <sup>3</sup> mm <sup>4</sup>
y max = 55.43mm	y max = 53.77
Moment of Inertia = 1684.49 x 10 <sup>3</sup> mm <sup>4</sup>	
Max Depth of Section from N Axis = 55.43mm	
E - Modulus = 69 Gpa	
Ultimate Stress = 110 Mpa	
30.4	
Panel Width Increments: 100mm	
Panel Height Increments: 100mm	



		SERVICABILITY 1/250	ULTIMATE U		LIMITATIONS: Servicability to 5000Pa & Ultimate to 8000Pa					
W = Panel Width (mm) (W)										
Frame Height (mm) (H)	Servicability	700	800	900	1000	1100	1200	1300	1400	1500
2000	250	5000	5000	5000	4843	4506	4221	3991	3805	3657
	U	8000	8000	7966	7293	6759	6331	5986	5708	5486
2100	250	5000	5000	4437	4118	3865	3661	3390	3260	3155
	U	8000	7965	7177	6560	6068	5671	5348	5085	4871
2200	250	4891	4398	3812	3532	3308	3127	2979	2772	2677
	U	8000	7225	6502	5934	5480	5111	4810	4563	4359
2300	250	4245	3812	3480	3052	2853	2693	2561	2378	2291
	U	7452	6585	5919	5395	4975	4633	4352	4120	3927
2400	250	3709	3326	3032	2655	2479	2336	2217	2120	1976
	U	6826	6027	5412	4928	4539	4221	3959	3741	3559
2500	250	3259	2919	2658	2452	2167	2039	1933	1845	1771
	U	6277	5538	4969	4520	4158	3862	3617	3413	3242
2600	250	2879	2576	2343	2159	1906	1791	1696	1616	1549
	U	5791	5106	4578	4161	3825	3549	3320	3128	2966
2700	250	2556	2285	2077	1911	1685	1582	1496	1424	1363
	U	5361	4724	4233	3844	3530	3272	3058	2878	2726
2800	250	2280	2036	1849	1700	1580	1404	1326	1261	1205
	U	4977	4383	3925	3563	3269	3028	2827	2658	2515
2900	250	2042	1822	1653	1519	1410	1252	1181	1122	1071
	U	4633	4078	3650	3311	3036	2810	2622	2463	2327
3000	250	1836	1638	1484	1362	1264	1183	1057	1003	957
	U	4323	3804	3404	3086	2828	2616	2438	2289	2161
3100	250	1657	1477	1337	1227	1137	1063	949	900	858
	U	4044	3557	3181	2883	2641	2441	2274	2133	2012
3200	250	1501	1336	1210	1109	1027	959	856	811	772
	U	3791	3334	2980	2699	2472	2283	2126	1993	1879
3300	250	1363	1213	1097	1005	931	869	817	733	698
	U	3562	3131	2798	2533	2318	2141	1992	1866	1758
3400	250	1242	1105	999	914	846	789	742	665	632
	U	3352	2946	2632	2382	2179	2011	1871	1751	1649
3500	250	1215	1009	912	834	771	719	675	638	575
	U	3161	2777	2480	2244	2052	1893	1760	1647	1550
3600	250	1113	924	834	763	705	657	617	583	524
	U	2985	2623	2342	2118	1936	1786	1659	1552	1460
3700	250	1022	848	766	700	646	602	565	533	480
	U	2824	2480	2214	2002	1830	1687	1567	1465	1378
3800	250	941	780	704	643	594	553	518	489	464
	U	2676	2350	2097	1896	1732	1596	1482	1386	1302
3900	250	868	720	649	593	547	509	477	450	427
	U	2539	2229	1989	1798	1642	1513	1405	1312	1233

Maximum Mullion Height Unsupported

## MULLION SELECTION TABLE

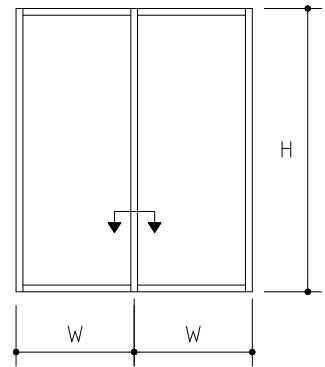
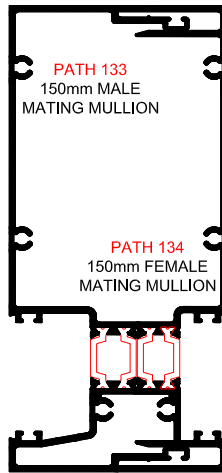
PATH SERIES - Thermal Break

FRAME MULLIONS - Double Glazing

**B07**

## PATH SERIES "THERMAL BREAK" MULLION

<b>MULLION: 150mm x 50mm</b>	
<b>PATH 133</b>	<b>PATH 134</b>
$I_{xx} = 2675.72 \times 10^3 \text{ mm}^4$	$I_{xx} = 1923.98 \times 10^3 \text{ mm}^4$
$y \text{ max} = 87.46\text{mm}$	$y \text{ max} = 85.27$
Moment of Inertia = $3899.7 \times 10^3 \text{ mm}^4$	
Max Depth of Section from N Axis = 87.46mm	
E - Modulus = 69 Gpa	
Ultimate Stress = 110 Mpa	
Z Section Modules = 44.6	
Panel Width Increments: 100mm	
Panel Height Increments: 100mm	



		SERVICABILITY 1/250	ULTIMATE U		LIMITATIONS: Servicability to 5000Pa & Ultimate to 8000Pa					
		W = Panel Width (mm) (W)								
Frame Height (mm) (H)	Servicability	700	800	900	1000	1100	1200	1300	1400	1500
2000	250	5000	5000	5000	5000	5000	5000	5000	5000	5000
	U	8000	8000	8000	8000	8000	8000	8000	8000	8000
2100	250	5000	5000	5000	5000	5000	5000	5000	4974	4765
	U	8000	8000	8000	8000	8000	8000	7847	7461	7147
2200	250	5000	5000	5000	5000	5000	5000	4705	4463	4264
	U	8000	8000	8000	8000	8000	7500	7058	6694	6396
2300	250	5000	5000	5000	5000	4866	4532	4257	4030	3841
	U	8000	8000	8000	7916	7300	6798	6386	6045	5762
2400	250	5000	5000	5000	4820	4439	4129	3872	3659	3481
	U	8000	8000	7941	7231	6659	6193	5808	5488	5221
2500	250	5000	5000	4860	4421	4067	3778	3538	3339	3171
	U	8000	8000	7291	6632	6101	5667	5308	5008	4756
2600	250	5000	4995	4478	4070	3741	3471	3247	3060	2902
	U	8000	7492	6718	6105	5612	5207	4871	4590	4352
2700	250	5000	4621	4140	3760	3453	3201	2991	2815	2667
	U	7865	6931	6210	5640	5180	4801	4487	4223	4000
2800	250	4868	4287	3840	3485	3198	2962	2765	2600	2460
	U	7302	6431	5759	5227	4797	4443	4148	3900	3689
2900	250	4531	3989	3571	3239	2970	2749	2564	2409	2277
	U	6797	5984	5356	4858	4455	4123	3847	3613	3415
3000	250	4229	3721	3329	3018	2766	2559	2385	2239	2114
	U	6343	5582	4994	4527	4149	3838	3578	3358	3171
3100	250	3836	3419	3096	2820	2583	2388	2198	2083	1968
	U	5934	5220	4668	4230	3874	3581	3336	3129	2952
3200	250	3474	3094	2800	2567	2377	2221	1982	1877	1788
	U	5563	4892	4373	3961	3626	3350	3119	2924	2756
3300	250	3156	2809	2541	2327	2154	2011	1892	1697	1615
	U	5226	4594	4105	3717	3402	3141	2923	2738	2580
3400	250	2875	2558	2312	2117	1958	1827	1717	1539	1464
	U	4918	4323	3862	3495	3197	2951	2745	2570	2420
3500	250	2813	2336	2110	1931	1785	1665	1564	1478	1331
	U	4638	4075	3639	3293	3011	2778	2583	2417	2275
3600	250	2577	2139	1931	1766	1632	1521	1428	1349	1214
	U	4380	3848	3436	3108	2841	2620	2435	2277	2142
3700	250	2367	1964	1772	1620	1496	1393	1307	1234	1110
	U	4144	3639	3249	2938	2685	2475	2299	2150	2022
3800	250	2179	1807	1630	1489	1375	1280	1200	1132	1074
	U	3926	3448	3077	2782	2541	2342	2175	2033	1911
3900	250	2010	1666	1503	1372	1266	1178	1104	1041	987
	U	3725	3271	2918	2638	2409	2220	2061	1925	1809

Maximum Mullion Heights Unsupported

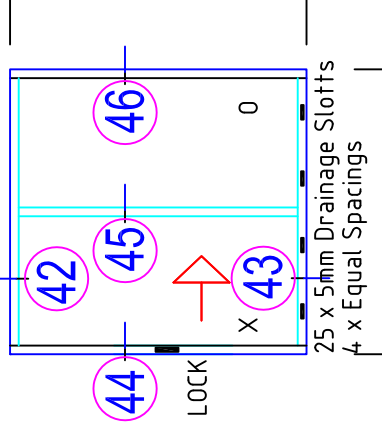
## MULLION SELECTION TABLE

**PATH SERIES - Thermal Break**

**FRAME MULLIONS - Double Glazing**

**B08**

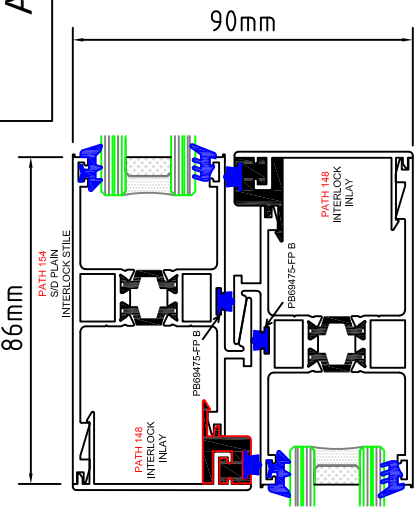
**TEST MODULE No: 1**



OVERALL FRAME HEIGHT = 2400mm

**AZUMA TEST REPORT  
AZT.0057.18**

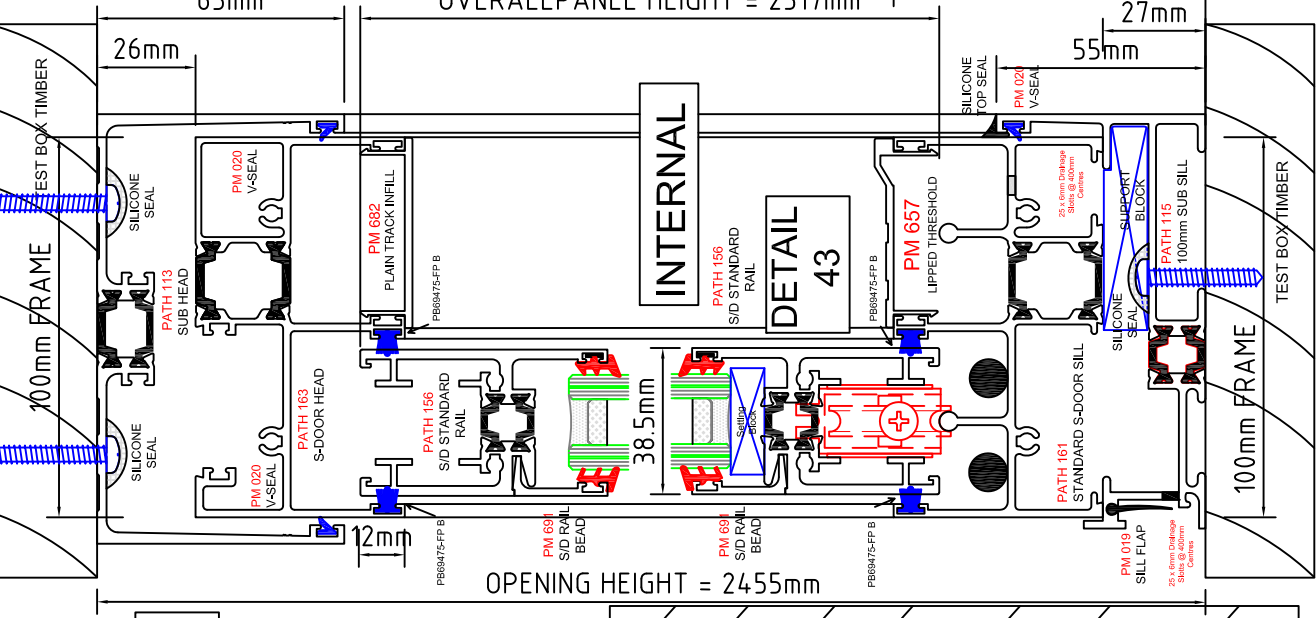
**DETAIL 42**



**DETAIL 45**

**DETAIL 46**

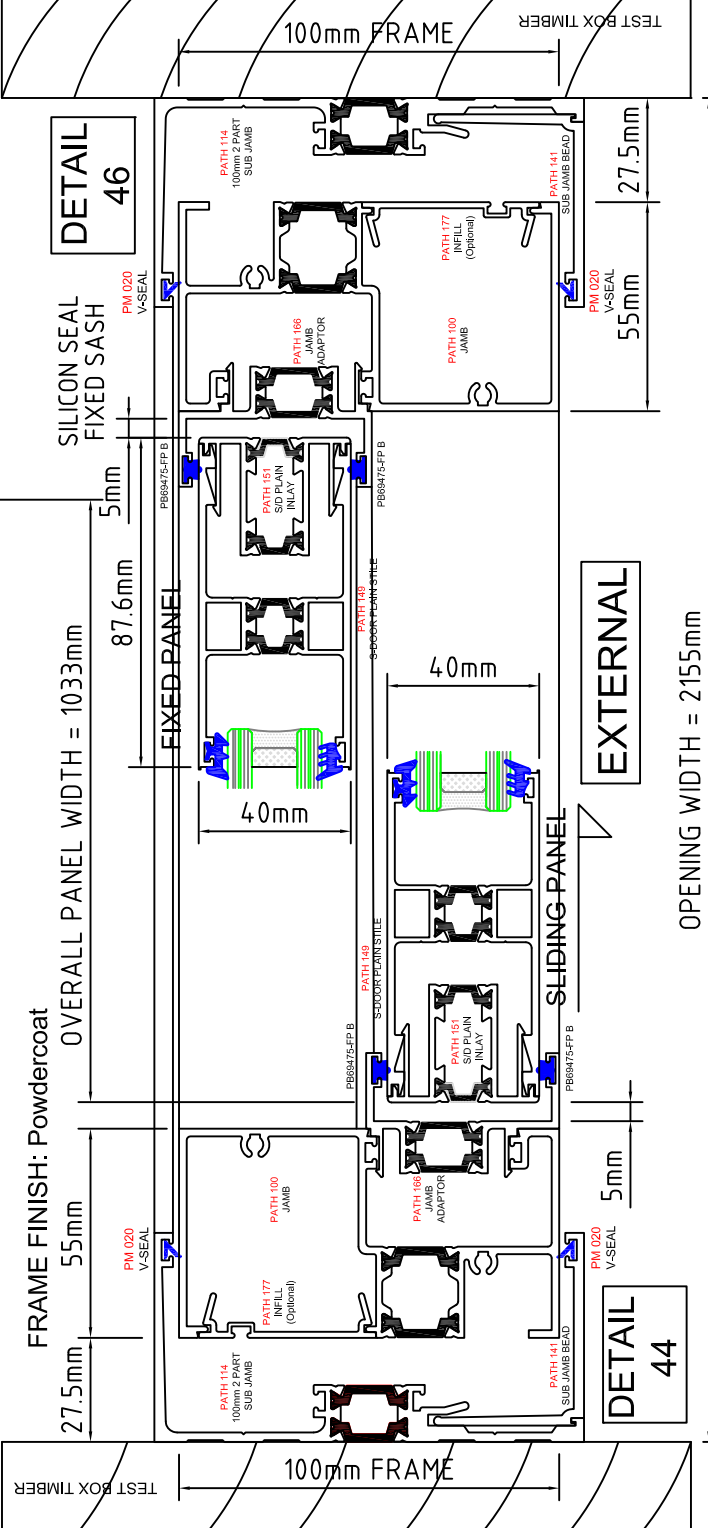
**DETAIL 43**



OPENING HEIGHT = 2455mm

OVERALL PANEL HEIGHT = 2317mm

**DETAIL 44**

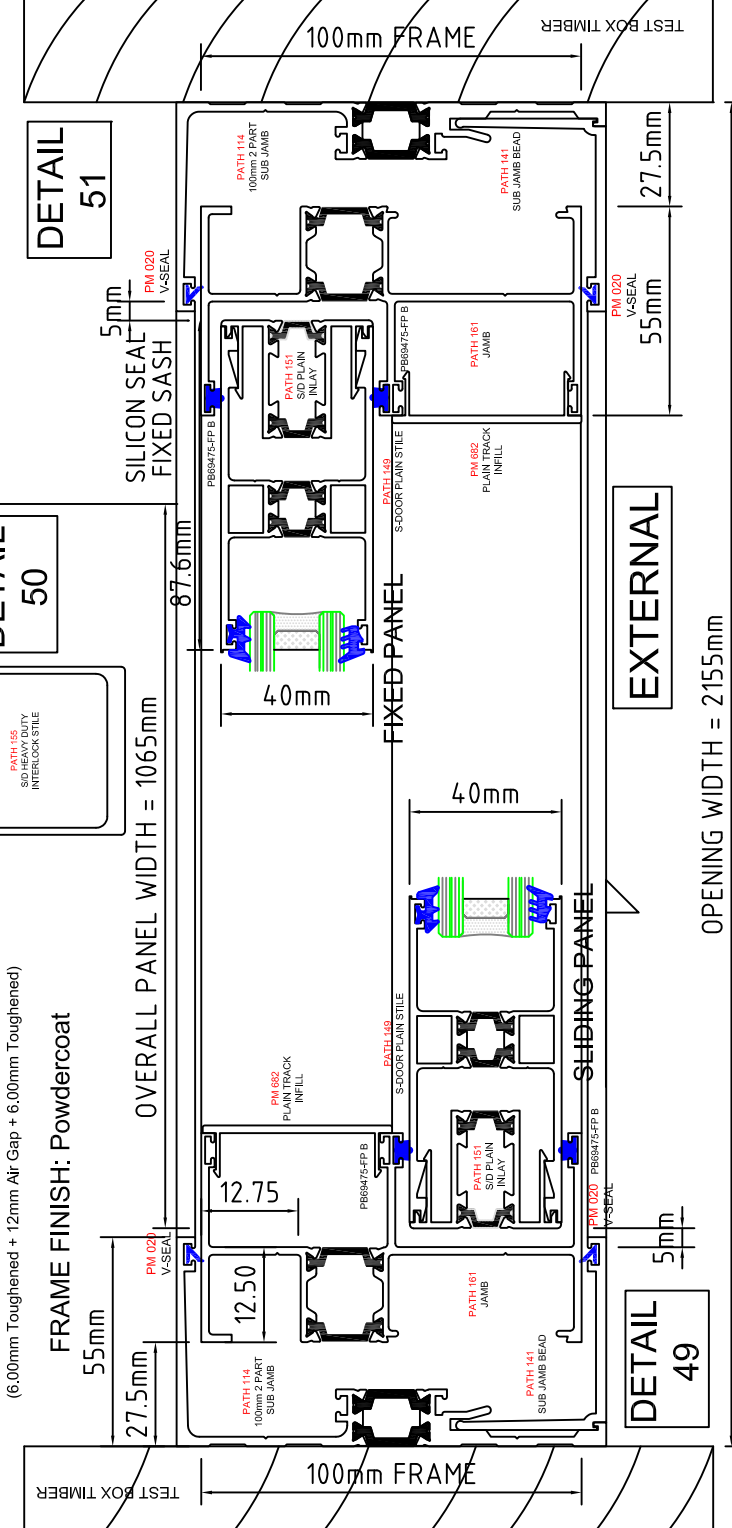
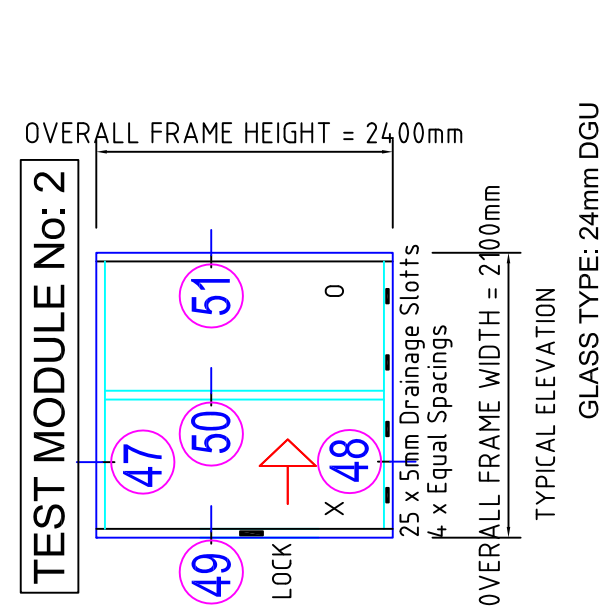
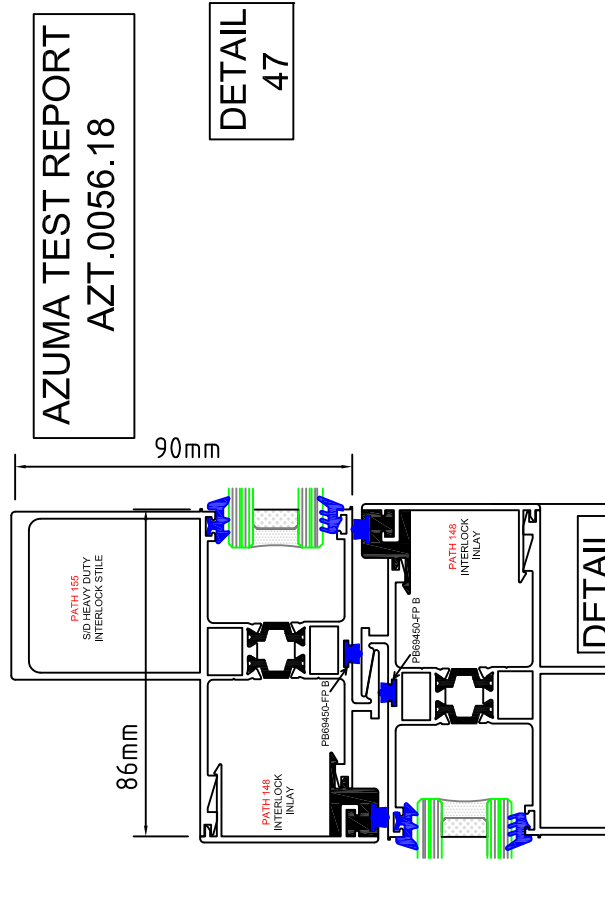
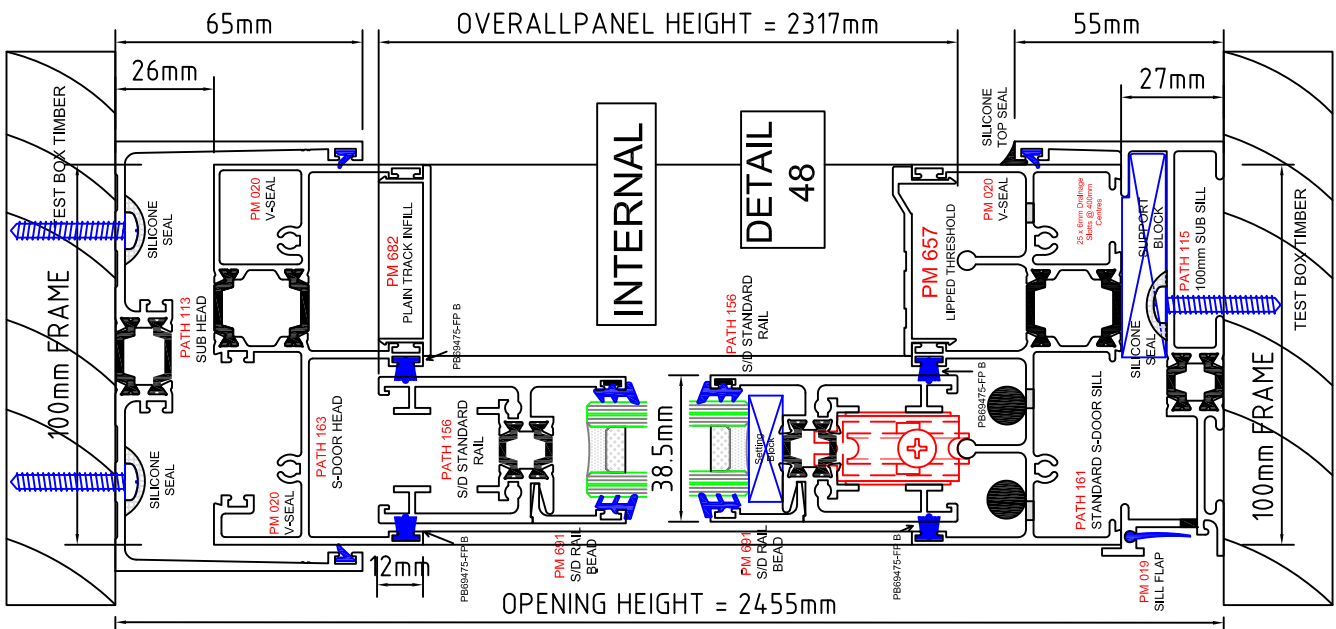


OVERALL PANEL WIDTH = 1033mm

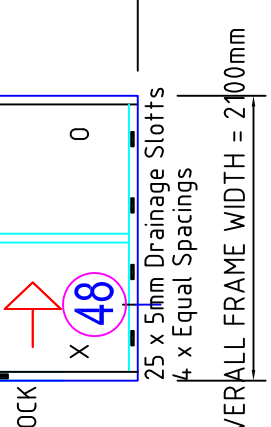
OPENING WIDTH = 2155mm

<p><b>PRESS METAL</b> Press Metal Aluminium (Australia) Pty Limited www.pressmetal.com.au</p>	<p><b>TESTING AS 2047.1</b></p> <ul style="list-style-type: none"> <li>WATER PENETRATION 350 PA</li> <li>SERVICE ABILITY LOAD 1750</li> <li>POSITIVE PRESSURE 800 PA</li> <li>NEGATIVE PRESSURE 800 PA</li> <li>ULTIMATE STRENGTH 3000 PA</li> <li>AIR INFILTRATION 75 PA</li> </ul>	<p><b>DOOR TYPE:</b> X0 - SLIDING DOOR - 2400 x 2100</p> <p><b>PATH 161 - STANDARD SILL</b></p> <p><b>PATH 100 - JAMBS</b></p> <p><b>PATH 154 - INTERLOCKS</b></p> <p>External Sliding - WITH SUB FRAME</p>	<p><b>DATE :</b> 15-02-2017</p> <p><b>PAGE No.:</b> TS -045</p> <p><b>TEST DOOR</b></p> <p><b>SCALE :</b> 1:2 on A4</p>
	<p><b>path thermalbreak window &amp; door systems</b></p>		

**B09**



**TEST MODULE No: 2**

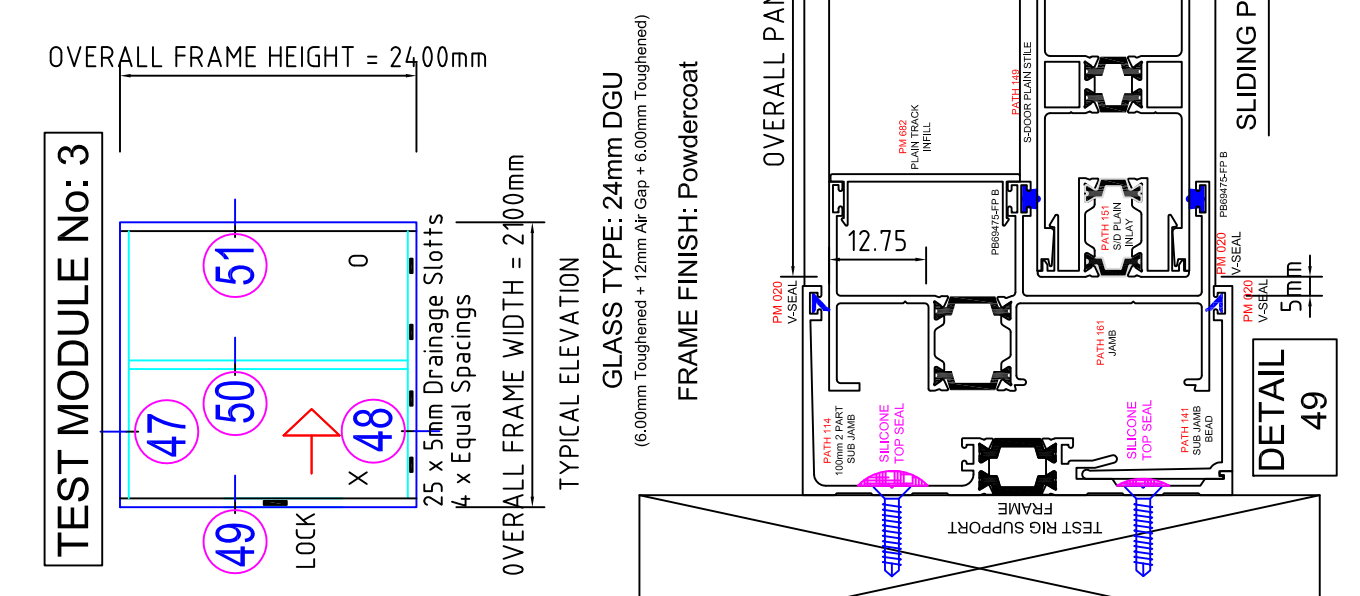
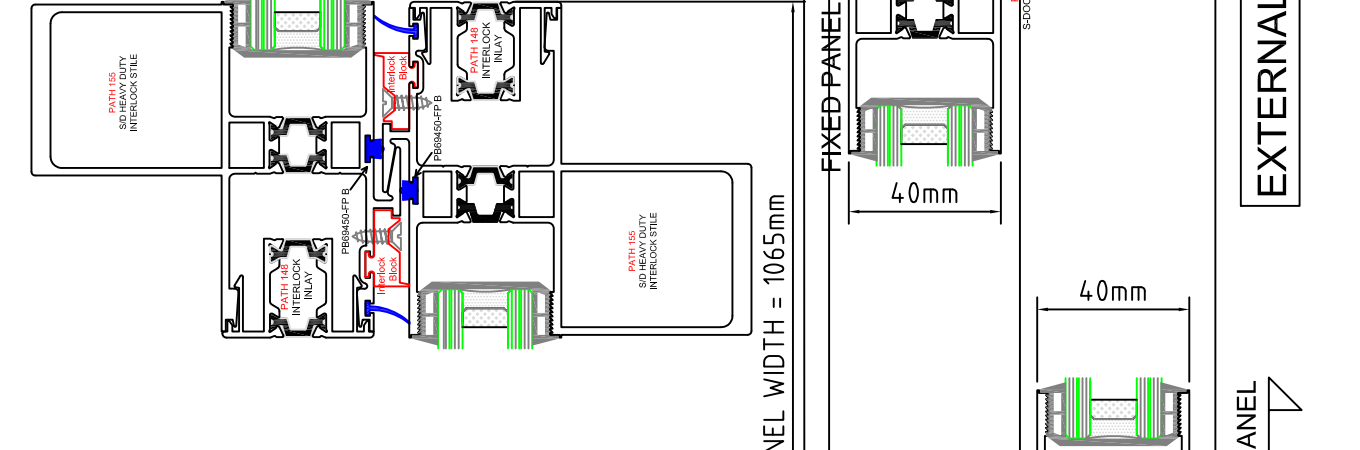
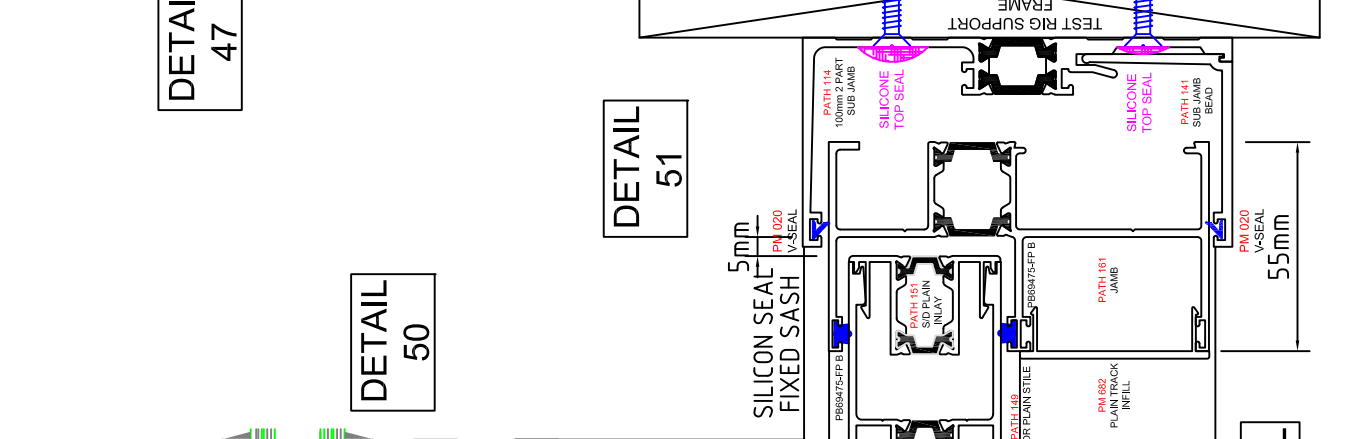
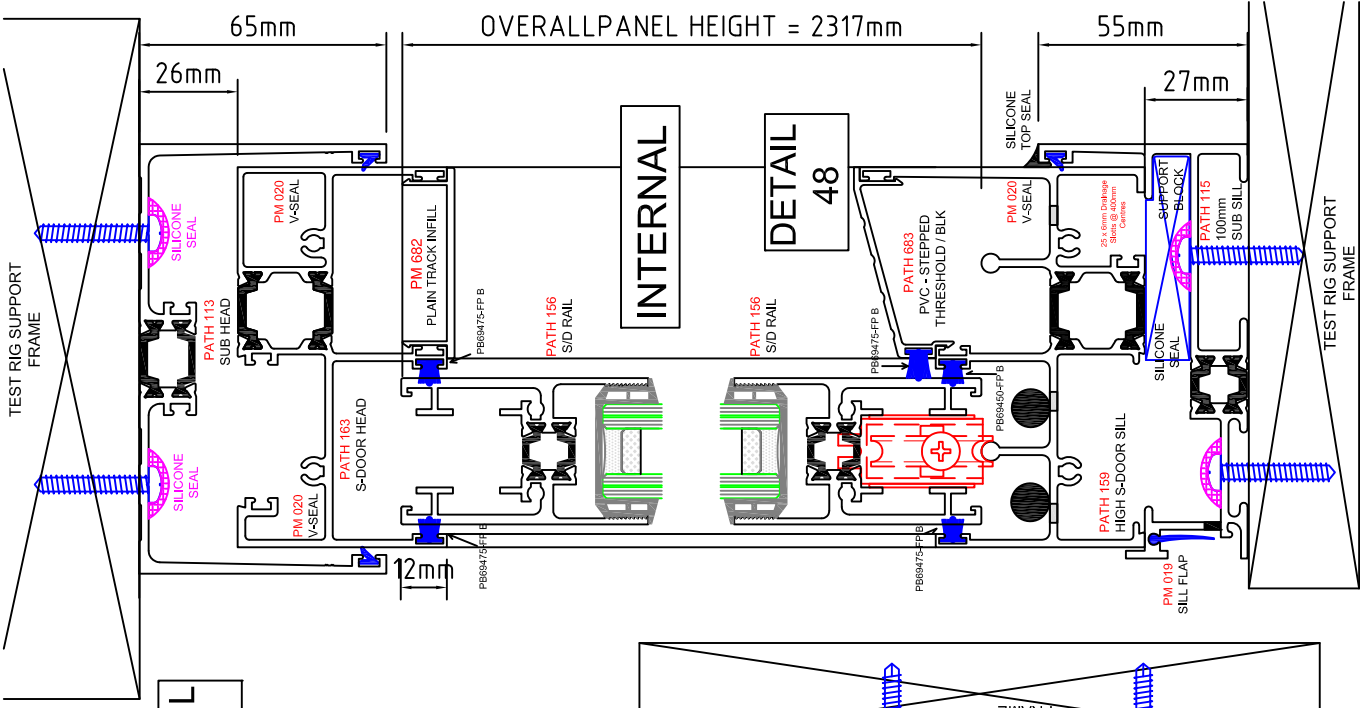


**OVERALL FRAME WIDTH = 2100mm**  
**TYPICAL ELEVATION**  
**GLASS TYPE: 24mm DGU**  
 (6.00mm Toughened + 12mm Air Gap + 6.00mm Toughened)  
**FRAME FINISH: Powdercoat**

**OVERALL FRAME HEIGHT = 2400mm**  
**OVERALL PANEL WIDTH = 1065mm**  
**OVERALL PANEL HEIGHT = 2317mm**  
**OPENING HEIGHT = 2455mm**  
**OPENING WIDTH = 2155mm**

 <b>PRESS METAL</b> Press Metal Aluminium (Australia) Pty Limited <a href="http://www.pressmetal.com.au">www.pressmetal.com.au</a>	<b>TESTING AS 2047.1</b> WATER PENETRATION 450 PA SERVICE ABILITY LOAD 1/250 POSITIVE PRESSURE 3000 PA NEGATIVE PRESSURE 3000 PA ULTIMATE STRENGTH 4200 PA AIR INFILTRATION 75 PA	<b>DOOR TYPE:</b> XO - SLIDING DOOR 2400 x 2100 PATH 161 - STANDARD SILL PATH 165 - JAMBS PATH 154 - INTERLOCKS External Sliding - WITH SUB FRAME	<b>DATE :</b> 15-02-2017	<b>PAGE No.:</b> TS - 046
		<b>SCALE :</b> 1:2 on A4	<b>TEST DOOR</b>	

**B10**



**GLASS TYPE: 24mm DGU**  
 (6.00mm Toughened + 12mm Air Gap + 6.00mm Toughened)

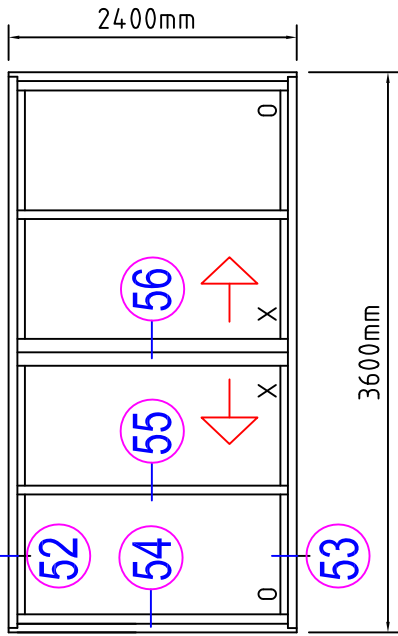
**FRAME FINISH: Powdercoat**

 <b>PRESS METAL</b> Press Metal Aluminium (Australia) Pty Limited <a href="http://www.pressmetal.com.au">www.pressmetal.com.au</a>	<b>TESTING AS 2047.1</b> WATER PENETRATION 000 PA SERVICE ABILITY LOAD 1/250 PA POSITIVE PRESSURE 0000 PA NEGATIVE PRESSURE 0000 PA ULTIMATE STRENGTH 0000 PA AIR INFILTRATION 00 PA	<b>DOOR TYPE:</b> XO - SLIDING DOOR 2400 x 2100 PATH 159 - HIGH RISE SILL PATH 165 - JAMBS PATH 155 - INTERLOCKS External Sliding	<b>DATE :</b> 05-02-2020	<b>PAGE No.:</b> TS - 047
	<b>SCALE :</b> 1:2 on A4	<b>SCALE :</b> 1:2 on A4	<b>SCALE :</b> 1:2 on A4	<b>SCALE :</b> 1:2 on A4

**B11**



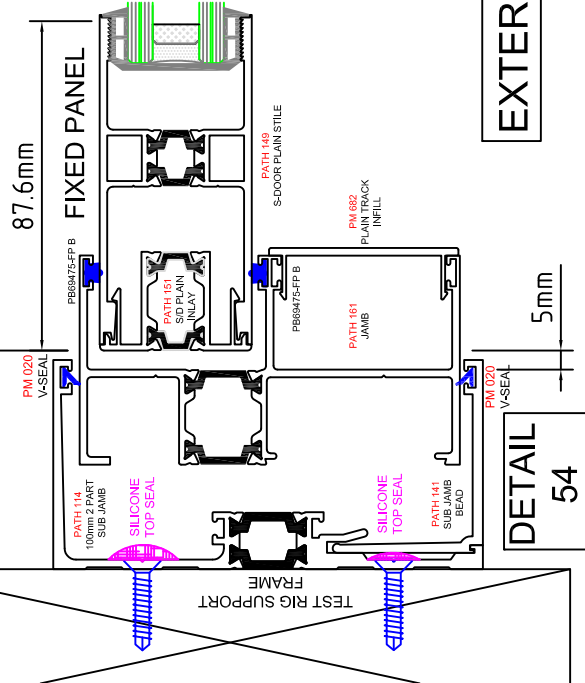
**TEST MODULE No: 4**



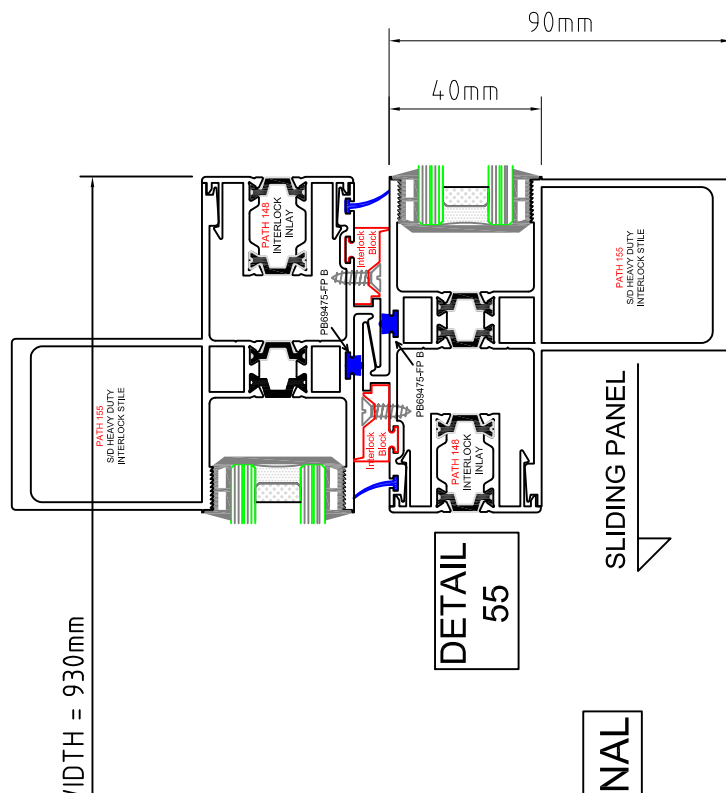
TYPICAL ELEVATION

GLASS TYPE: 24mm DGU  
(6.00mm Toughened + 12mm Air Gap + 6.00mm Toughened)  
FRAME FINISH: Powdercoat

OVERALL PANEL WIDTH = 930mm



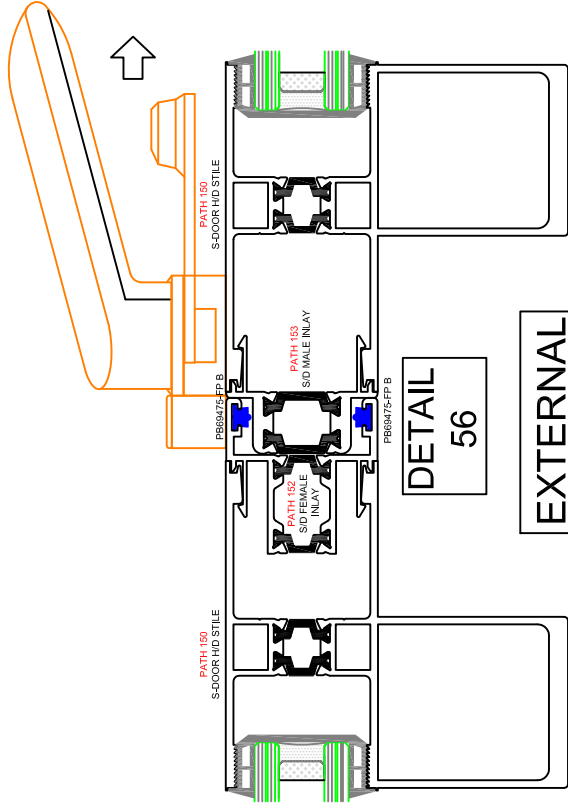
DETAIL 54



DETAIL 55

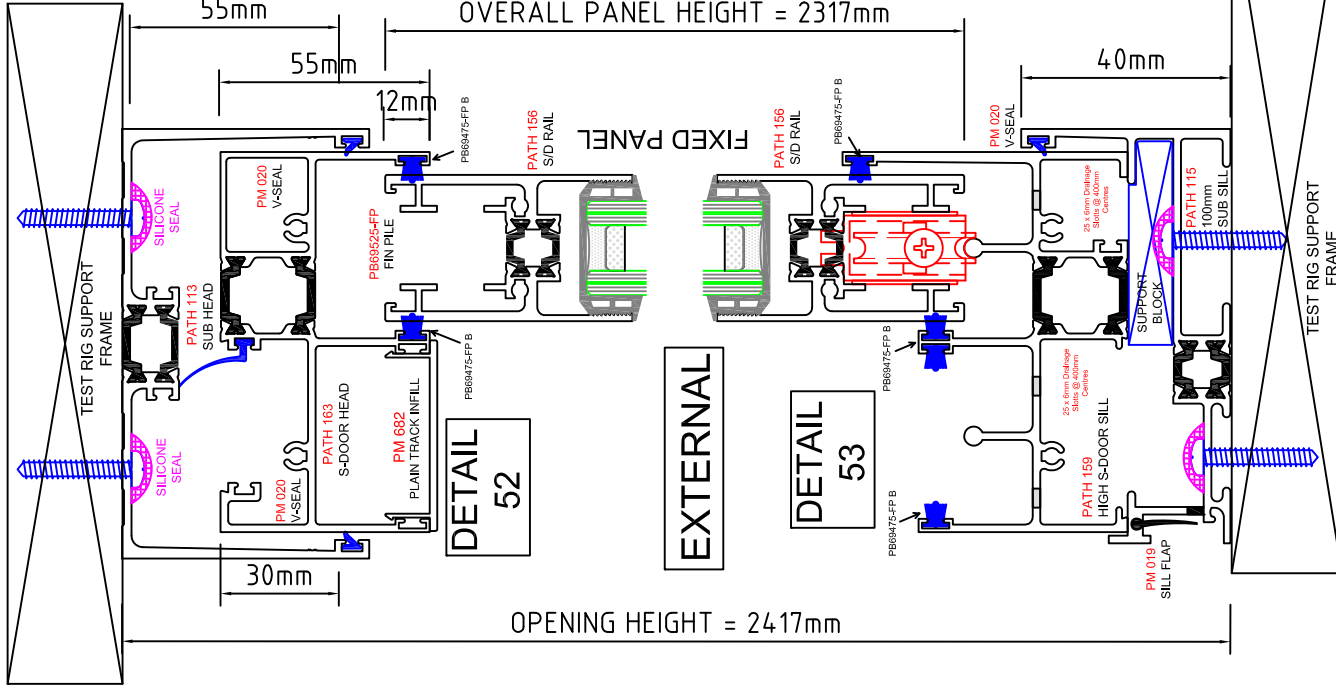
EXTERNAL

SLIDING PANEL



DETAIL 56

EXTERNAL



DETAIL 52

EXTERNAL

DETAIL 53

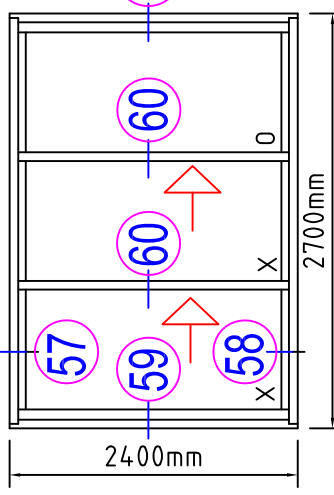
OPENING HEIGHT = 2417mm

OVERALL PANEL HEIGHT = 2317mm

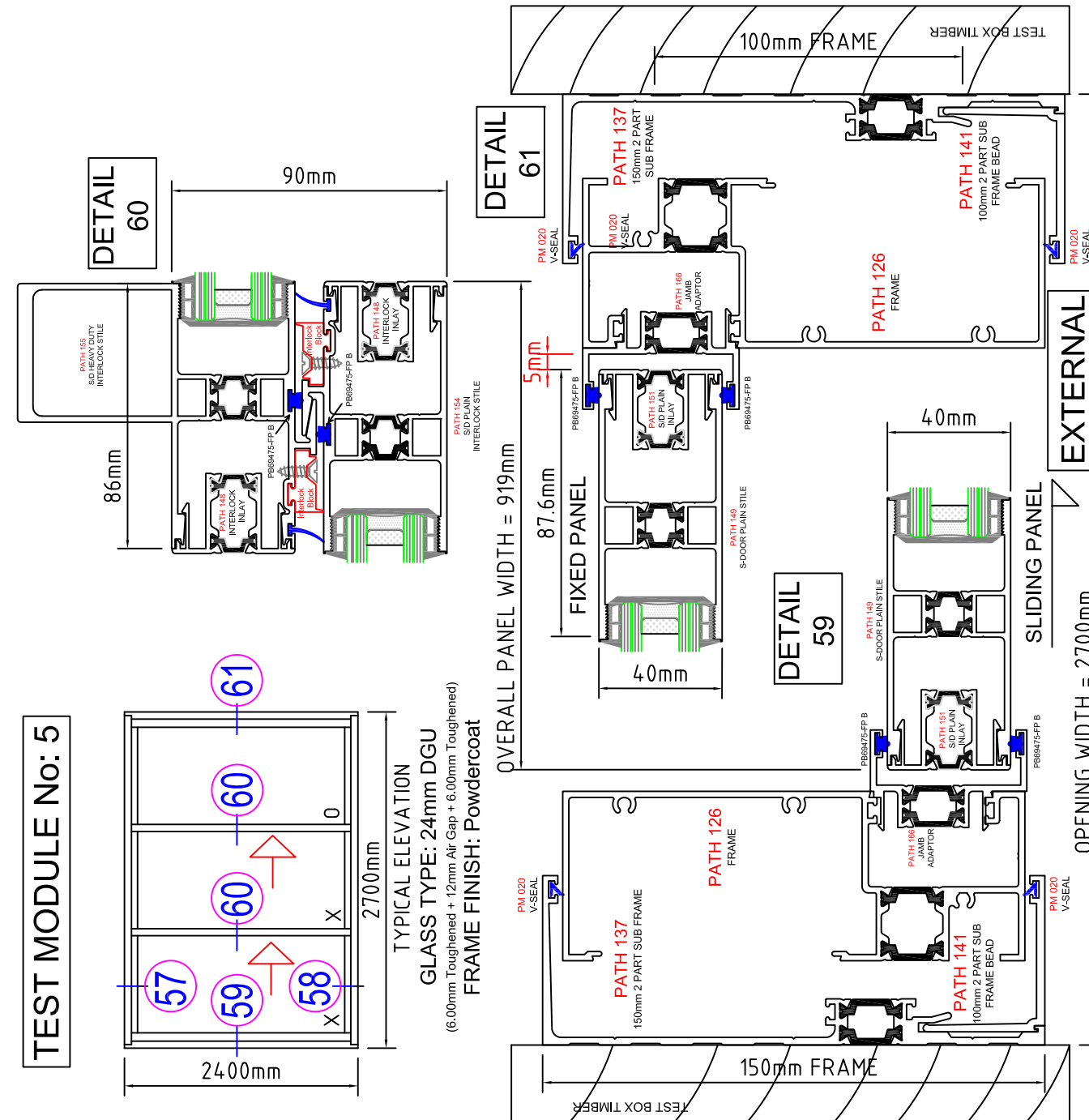
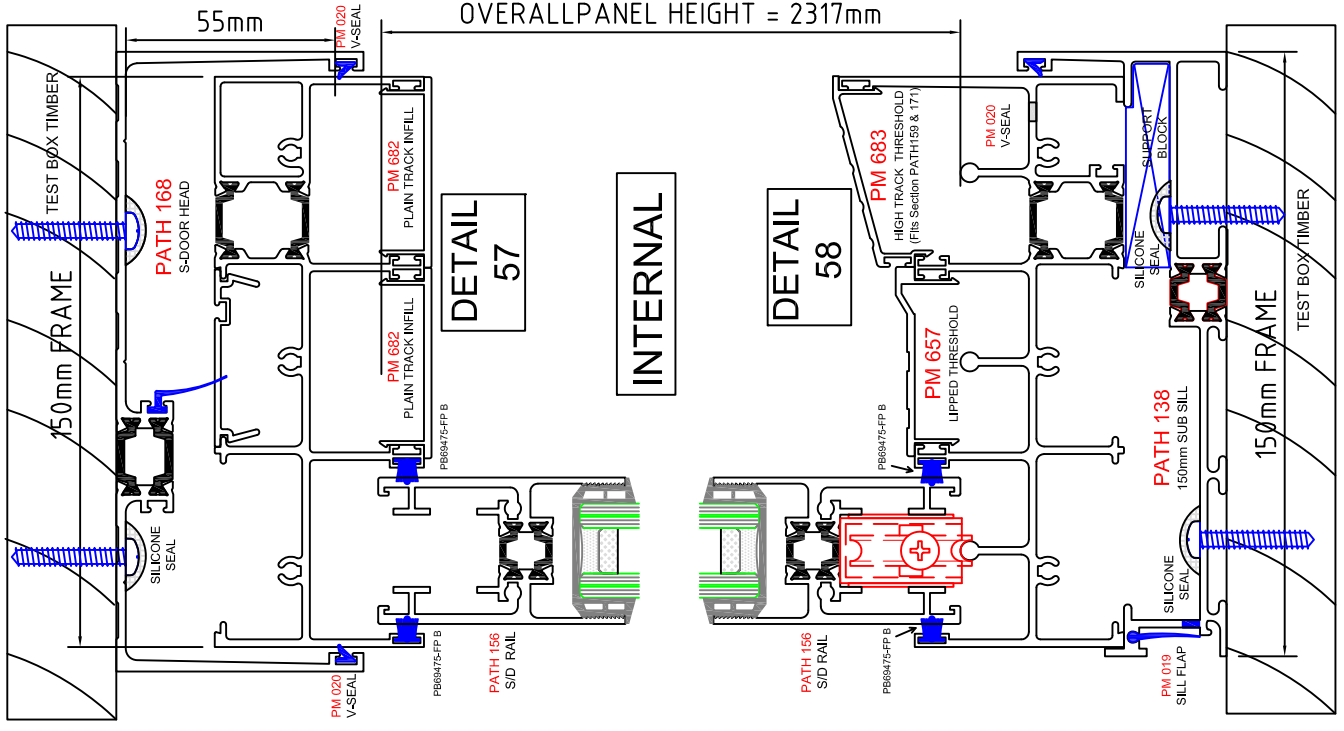
<p><b>PRESS METAL</b> Press Metal Aluminium (Australia) Pty Limited www.pressmetal.com.au</p>	<p>TESTING AS 2047.1 WATER PENETRATION 000 PA SERVICE ABILITY LOAD 1/250 POSITIVE PRESSURE 0000 PA NEGATIVE PRESSURE 0000 PA ULTIMATE STRENGTH 0000 PA AIR INFILTRATION 00 PA</p>	<p>DOOR TYPE: OXO - SLIDING DOOR 2400 x 3600 PATH 161 - STANDARD SILL PATH 165 - JAMBS PATH 155 - INTERLOCKS External Sliding - WITH SUB FRAME</p>	<p>DATE : 05-02-2020 PAGE No.: TS - 048 TEST DOOR SCALE : 1:2 on A4</p>
	<p><b>path thermalbreak window &amp; door systems</b></p>		

**B12**

**TEST MODULE No: 5**

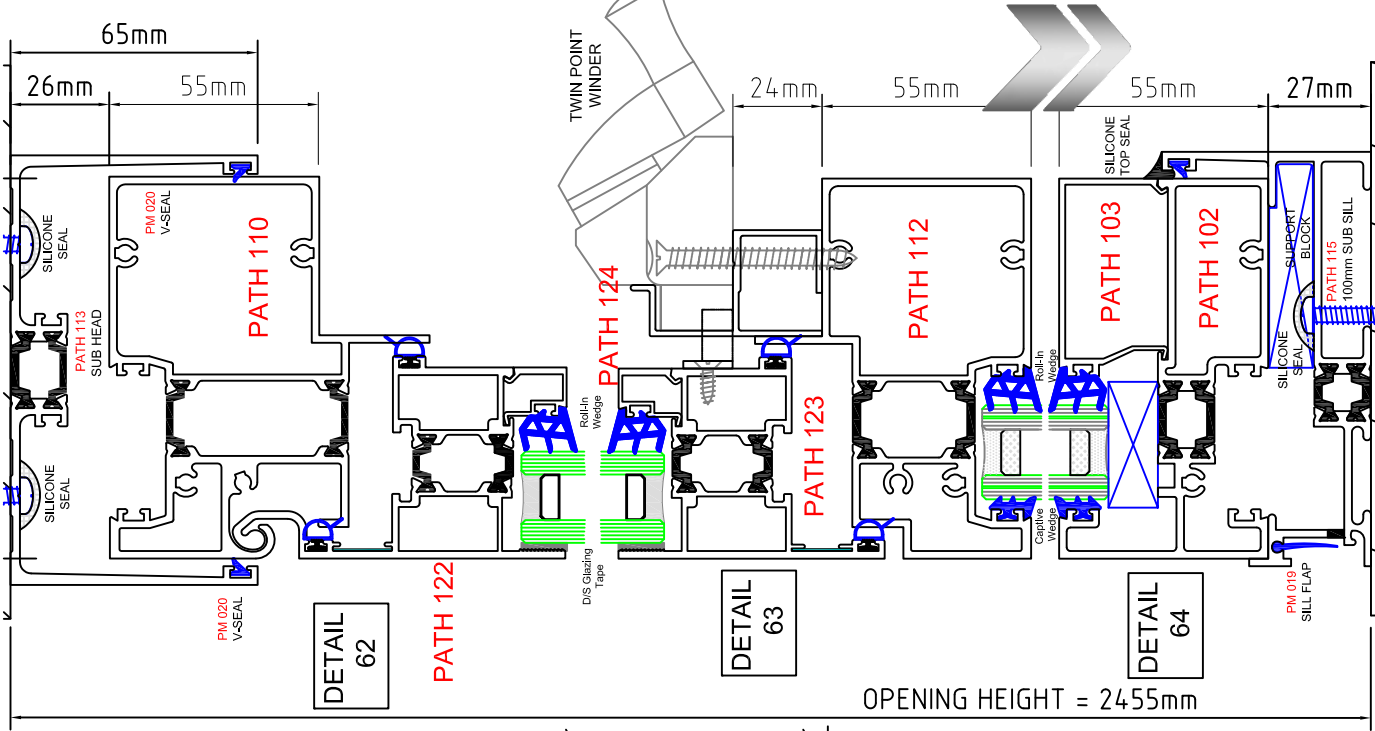


**TYPICAL ELEVATION**  
**GLASS TYPE: 24mm DGU**  
 (6.00mm Toughened + 12mm Air Gap + 6.00mm Toughened)  
**FRAME FINISH: Powdercoat**

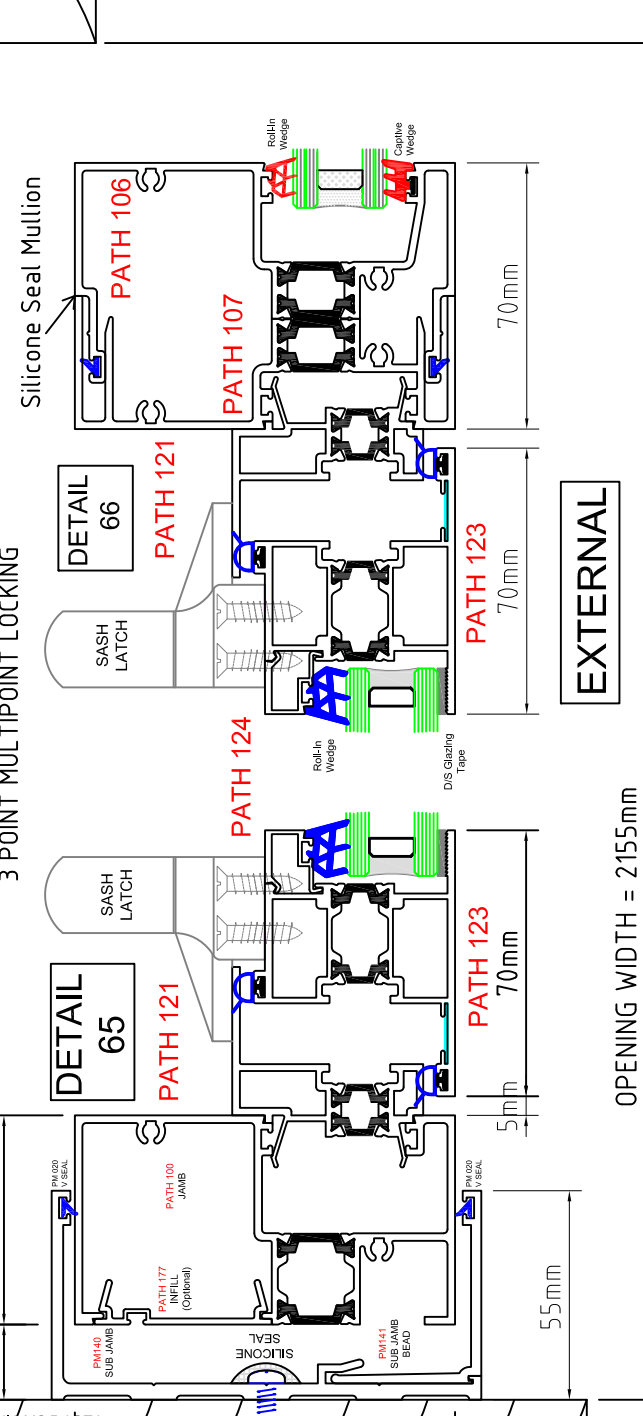
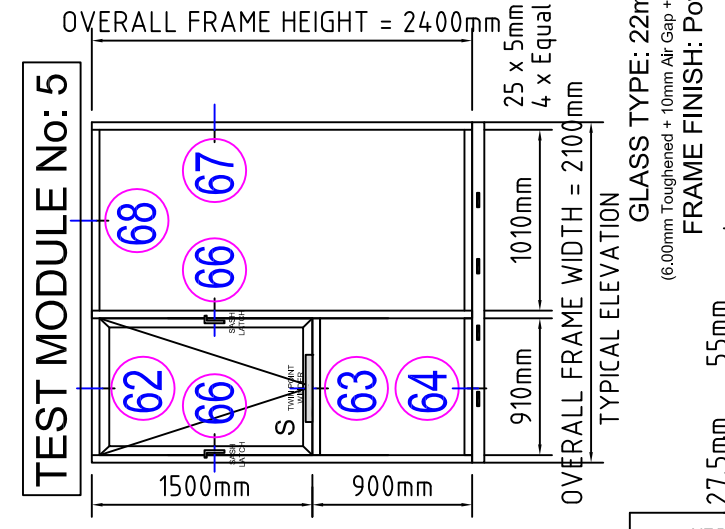
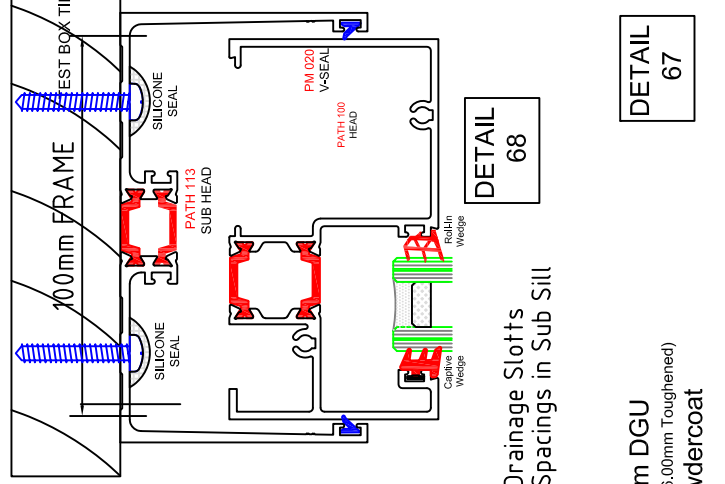
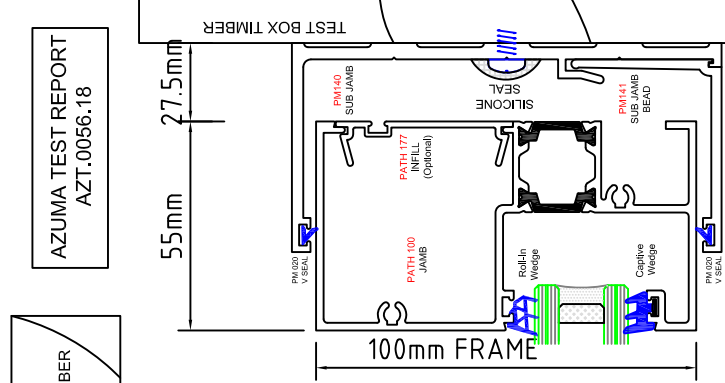


<p><b>PRESS METAL</b>                  Press Metal Aluminium (Australia) Pty Limited                  www.pressmetal.com.au</p>	<p>TESTING AS PER AS/NZS 4387                  WATER PENETRATION TEST                  SERVICE AIR INFILTRATION TEST                  POSITIVE PRESSURE TEST                  NEGATIVE PRESSURE TEST                  ULTIMATE STRENGTH TEST                  AIR INFILTRATION TEST</p>	<p>AS1288                  000 PA                  1/250                  0000 PA                  0000 PA                  0000 PA                  00 PA</p>	<p>DOOR TYPE:                  XXO - SLIDING DOOR - 2400 x 2700                  PATH 161 - STANDARD SILL                  PATH 126 - JAMBS                  PATH 154 / 155 - INTERLOCKS                  External Sliding - WITH SUB FRAME</p>	<p>DATE : 12-04-2019                  PAGE No.: TS - 049</p>	<p>SCALE : 1:2 on A4</p>
	<p><b>path thermal break window &amp; door systems</b></p>		<p>TESTING AS PER AS/NZS 4387                  WATER PENETRATION TEST                  SERVICE AIR INFILTRATION TEST                  POSITIVE PRESSURE TEST                  NEGATIVE PRESSURE TEST                  ULTIMATE STRENGTH TEST                  AIR INFILTRATION TEST</p>	<p>DATE : 12-04-2019                  PAGE No.: TS - 049</p>	<p>SCALE : 1:2 on A4</p>

**B13**



OPENING HEIGHT = 2455mm



OPENING WIDTH = 2155mm

EXTERNAL

TEST MODULE No: 5

OVERALL FRAME HEIGHT = 2400mm

25 x 5mm Drainage Slotts  
4 x Equal Spacings in Sub Sill

GLASS TYPE: 22mm DGU  
(6.00mm Toughened + 10mm Air Gap + 6.00mm Toughened)  
FRAME FINISH: Powdercoat

3 POINT MULTIPOINT LOCKING

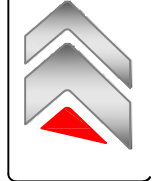
DATE :	12-04-2019	PAGE No.:	TS -050
TEST DOOR	TEST DOOR		
SCALE :	1:2 on A4		

DOOR: AWNING SASH - FIXED LIGHT - 2500 x 2300  
TYPE: PATH 100 - FRAME  
PATH 110 - HEAD / PATH 112 - TRANSOM  
PATH 106 / 107 - MULLIONS  
PATH 122 / 123 - SASH FRAME - TOP HUNG

**path**  
thermalbreak  
window & door systems

TESTING AS 2047.1	AST288
WATER PENETRATION	800 PA
SERVICE ABILITY LOAD	1/250
POSITIVE PRESSURE	3800 PA
NEGATIVE PRESSURE	3800 PA
ULTIMATE STRENGTH	3800 PA
AIR INFILTRATION	75 PA

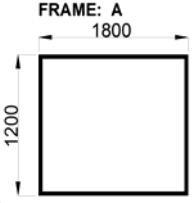
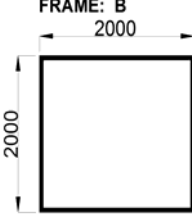
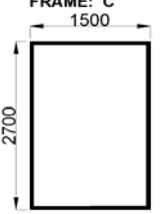
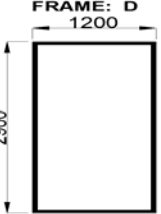
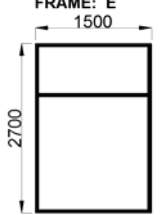
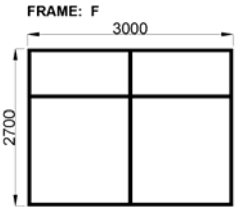
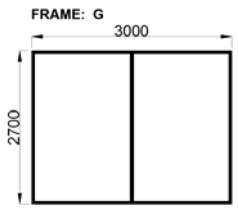
**PRESS METAL**  
Press Metal Aluminium (Australia) Pty Limited  
www.pressmetal.com.au

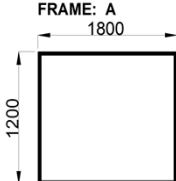
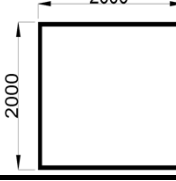
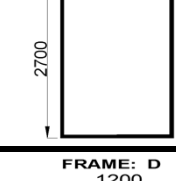
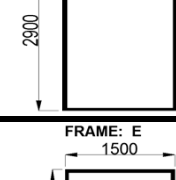
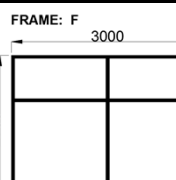
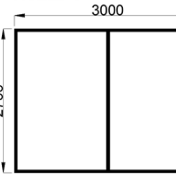



**B14**

# PERFORMANCE TEST SPECIFICATIONS

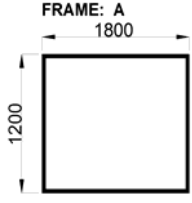
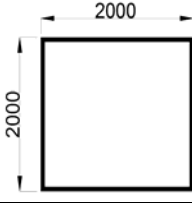
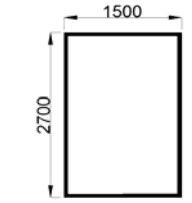
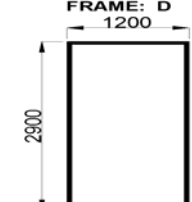
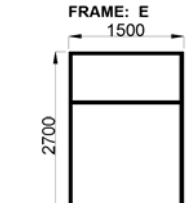
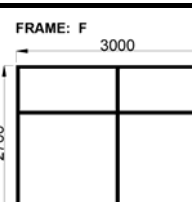
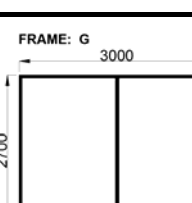
## THERMAL ASSESSMENT

PATH Thermal Break		GLASS SELECTION CHART - B15								
		6mm Clear 12mm Air 6mm Clear	10mm Clear 12mm Air 6mm Clear	6mm Grey 12mm Air 6mm Clear	10mm Grey 12mm Air 6mm Clear	6mm Evantage Clear 12mm Air 6mm Clear	6mm Evantage Grey 12mm Air 6mm Clear	6mm Evantage S/Green 12mm Air 6mm Clear	6mm Evantage S/Blue 12mm Air 6mm Clear	
Fixed Light  100 x 55 Frame Double Glazing  All Fixed Panels		UW	2.960	2.956	2.960	2.956	2.354	2.354	2.362	2.354
		SHGC	0.625	0.563	0.404	0.321	0.494	0.300	0.267	0.260
		TVW	0.682	0.660	0.321	0.215	0.534	0.251	0.386	0.304
	UW	2.912	2.905	2.912	2.905	2.286	2.285	2.294	2.285	
	SHGC	0.640	0.576	0.414	0.328	0.506	0.307	0.273	0.265	
	TVW	0.700	0.677	0.330	0.220	0.548	0.258	0.396	0.313	
	UW	2.917	2.910	2.917	2.910	2.294	2.294	2.303	2.294	
	SHGC	0.637	0.574	0.412	0.327	0.504	0.305	0.272	0.264	
	TVW	0.697	0.674	0.328	0.219	0.546	0.257	0.394	0.311	
	UW	2.944	2.940	2.944	2.940	2.336	2.336	2.344	2.336	
	SHGC	0.627	0.565	0.406	0.322	0.496	0.301	0.268	0.261	
	TVW	0.685	0.663	0.323	0.216	0.537	0.252	0.387	0.306	
	UW	2.990	2.991	2.990	2.991	2.387	2.387	2.396	2.387	
	SHGC	0.625	0.562	0.404	0.321	0.494	0.300	0.267	0.260	
	TVW	0.682	0.659	0.321	0.215	0.534	0.251	0.386	0.304	
	UW	2.994	2.997	2.994	2.997	2.382	2.382	2.391	2.382	
	SHGC	0.633	0.570	0.409	0.325	0.500	0.304	0.270	0.263	
	TVW	0.692	0.669	0.326	0.218	0.542	0.255	0.391	0.309	
	UW	2.920	2.915	2.920	2.915	2.288	2.287	2.296	2.287	
	SHGC	0.646	0.581	0.417	0.331	0.510	0.309	0.275	0.268	
	TVW	0.707	0.684	0.333	0.223	0.554	0.261	0.400	0.316	
AFRC Lab Fenestration Performance Report						1/02/2018		B-15		

PATH Thermal Break  Fixed Light  100 x 55 Frame Double Glazing  All Fixed Panels	GLASS SELECTION CHART - B16								
		6mm Energy Tech Clear 12mm Air 6mm Clear	6mm SolTech (#2) Neutral 12mm Air 6mm Clear PerformatechE	6mm SolTech Grey 12mm Air 6mm Clear PerformatechE	8.76mm Clear Laminated 12mm Argon 6mm Clear PerformatechE	8.76mm Grey Laminated 12mm Argon 6mm Clear PerformatechE	8.38mm Comfort+ Neutral 59 12mm Argon 6mm Clear	8.38mm Comfort+ Blue 44 12mm Argon 6mm Clear	
<b>FRAME: A</b> 	UW	2.275	1.840	1.837	2.089	2.087	2.284	2.281	
	SHGC	0.542	0.397	0.286	0.313	0.234	0.372	0.275	
	TVW	0.631	0.577	0.359	0.420	0.316	0.452	0.368	
<b>FRAME: B</b> 	UW	2.204	1.753	1.751	2.011	2.006	2.213	2.207	
	SHGC	0.555	0.406	0.292	0.319	0.239	0.381	0.281	
	TVW	0.648	0.593	0.368	0.431	0.324	0.464	0.377	
<b>FRAME: C</b> 	UW	2.213	1.765	1.762	2.022	2.017	2.222	2.217	
	SHGC	0.553	0.404	0.291	0.318	0.238	0.379	0.279	
	TVW	0.645	0.590	0.366	0.429	0.323	0.462	0.376	
<b>FRAME: D</b> 	UW	2.256	1.819	1.815	2.070	2.067	2.266	2.262	
	SHGC	0.544	0.398	0.287	0.314	0.235	0.454	0.276	
	TVW	0.634	0.580	0.360	0.422	0.317	0.000	0.369	
<b>FRAME: E</b> 	UW	2.309	1.879	1.876	2.124	2.126	2.321	2.319	
	SHGC	0.542	0.397	0.286	0.312	0.234	0.372	0.275	
	TVW	0.631	0.577	0.358	0.420	0.316	0.451	0.367	
<b>FRAME: F</b> 	UW	2.302	1.876	1.868	2.115	2.120	2.316	2.315	
	SHGC	0.549	0.402	0.289	0.316	0.237	0.377	0.278	
	TVW	0.640	0.585	0.363	0.426	0.320	0.458	0.373	
<b>FRAME: G</b> 	UW	2.205	1.760	1.752	2.011	2.009	2.216	2.212	
	SHGC	0.560	0.410	0.295	0.322	0.241	0.384	0.283	
	TVW	0.654	0.598	0.372	0.435	0.327	0.468	0.381	
<b>AFRC Lab Fenestration Performance Report</b>						<b>1/02/2018</b>	<b>B-16</b>		

# PERFORMANCE TEST SPECIFICATIONS


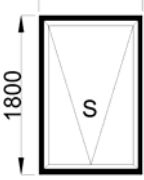
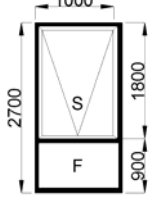
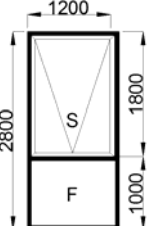
## THERMAL ASSESSMENT

PATH Thermal Break	GLASS SELECTION CHART - B17								
	Fixed Light	6mm Clear 12mm Air 6mm Clear	10mm Clear 12mm Air 6mm Clear	6mm Grey 12mm Air 6mm Clear	10mm Grey 12mm Air 6mm Clear	6mm Evantage Clear 12mm Air 6mm Clear	6mm Evantage Grey 12mm Air 6mm Clear	6mm Evantage S/Green 12mm Air 6mm Clear	6mm Evantage S/Blue 12mm Air 6mm Clear
150 x 55 Frame Double Glazing									
All Fixed Panels									
<b>FRAME: A</b> 	UW	3.0	3.0	3.0	3.0	2.4	2.4	2.4	2.4
	SHGC	0.61	0.55	0.40	0.32	0.48	0.29	0.26	0.26
	TVW	0.67	0.65	0.31	0.21	0.52	0.25	0.38	0.30
<b>FRAME: B</b> 	UW	2.8	2.8	2.8	2.8	2.2	2.2	2.2	2.2
	SHGC	0.64	0.57	0.41	0.33	0.50	0.31	0.27	0.26
	TVW	0.70	0.68	0.33	0.22	0.55	0.26	0.40	0.31
<b>FRAME: C</b> 	UW	2.8	2.8	2.8	2.8	2.2	2.2	2.2	2.2
	SHGC	0.63	0.57	0.41	0.32	0.50	0.30	0.27	0.26
	TVW	0.70	0.67	0.33	0.22	0.55	0.26	0.39	0.31
<b>FRAME: D</b> 	UW	2.8	2.8	2.8	2.8	2.2	2.2	2.2	2.2
	SHGC	0.62	0.56	0.40	0.32	0.49	0.30	0.27	0.26
	TVW	0.68	0.66	0.32	0.22	0.54	0.25	0.39	0.31
<b>FRAME: E</b> 	UW	2.9	2.9	2.9	2.9	2.3	2.3	2.3	2.3
	SHGC	0.62	0.56	0.40	0.32	0.49	0.30	0.26	0.26
	TVW	0.68	0.66	0.32	0.21	0.53	0.25	0.39	0.30
<b>FRAME: F</b> 	UW	2.9	2.9	2.9	2.9	2.3	2.3	2.3	2.3
	SHGC	0.63	0.57	0.41	0.32	0.50	0.30	0.27	0.26
	TVW	0.69	0.67	0.33	0.22	0.54	0.26	0.39	0.31
<b>FRAME: G</b> 	UW	2.8	2.8	2.8	2.8	2.2	2.2	2.2	2.2
	SHGC	0.65	0.58	0.42	0.33	0.51	0.31	0.27	0.27
	TVW	0.71	0.69	0.33	0.22	0.56	0.26	0.40	0.32
<b>AFRC Lab Fenestration Performance Report</b>						<b>20/05/2020</b>	<b>B-17</b>		

PATH Thermal Break  Fixed Light  150 x 55 Frame Double Glazing  All Fixed Panels		GLASS SELECTION CHART - B18							
		6mm Energy Tech Clear 12mm Air 6mm Clear	6mm SolTech (#2) Neutral 12mm Air 6mm Clear PerformatechE	6mm SolTech Grey 12mm Air 6mm Clear PerformatechE	8.76mm Clear Laminated 12mm Argon 6mm Clear PerformatechE	8.76mm Grey Laminated 12mm Argon 6mm Clear PerformatechE	8.38mm Comfort+ Neutral 59 12mm Argon 6mm Clear	8.38mm Comfort+ Blue 44 12mm Argon 6mm Clear	6mm LoE 366-6 CIG 12mm Argon 6mm Clear
<p>FRAME: A 1800 1200</p>	UW	2.3	1.9	1.9	2.1	2.1	2.3	2.3	1.9
	SHGC	0.53	0.39	0.28	0.31	0.23	0.37	0.27	0.24
	TVW	0.61	0.57	0.35	0.41	0.31	0.44	0.36	0.53
<p>FRAME: B 2000 2000</p>	UW	2.2	1.7	1.7	2.0	2.0	2.2	2.1	1.7
	SHGC	0.55	0.40	0.29	0.32	0.24	0.38	0.28	0.25
	TVW	0.65	0.59	0.37	0.43	0.32	0.46	0.38	0.56
<p>FRAME: C 1500 2700</p>	UW	2.1	1.7	1.7	1.9	1.9	2.1	2.1	1.7
	SHGC	0.55	0.40	0.29	0.32	0.24	0.38	0.28	0.25
	TVW	0.64	0.59	0.37	0.43	0.32	0.46	0.38	0.55
<p>FRAME: D 1200 2900</p>	UW	2.2	1.7	1.7	2.0	2.0	2.2	2.2	1.7
	SHGC	0.54	0.40	0.29	0.31	0.23	0.37	0.27	0.24
	TVW	0.63	0.58	0.36	0.42	0.32	0.45	0.37	0.54
<p>FRAME: E 1500 2700</p>	UW	2.2	1.8	1.8	2.1	2.1	2.2	2.2	1.8
	SHGC	0.54	0.39	0.28	0.31	0.23	0.37	0.27	0.24
	TVW	0.63	0.58	0.36	0.42	0.32	0.45	0.37	0.54
<p>FRAME: F 3000 2700</p>	UW	2.3	1.8	1.8	2.1	2.1	2.3	2.3	1.8
	SHGC	0.55	0.40	0.29	0.32	0.24	0.38	0.28	0.25
	TVW	0.64	0.59	0.37	0.43	0.32	0.46	0.37	0.55
<p>FRAME: G 3000 2700</p>	UW	2.2	1.7	1.7	2.0	2.0	2.2	2.2	1.7
	SHGC	0.56	0.41	0.29	0.32	0.24	0.38	0.28	0.25
	TVW	0.66	0.60	0.37	0.44	0.33	0.47	0.38	0.56
<b>AFRC Lab Fenestration Performance Report</b>						<b>20/05/2020</b>		<b>B-18</b>	

# PERFORMANCE TEST SPECIFICATIONS

## THERMAL ASSESSMENT

PATH Thermal Break Awning Sash 100 x 55 Frame Double Glazing 50mm Sash	GLASS SELECTION CHART - B19								
		6mm Clear 12mm Air 6mm Clear	10mm Clear 12mm Air 6mm Clear	6mm Grey 12mm Air 6mm Clear	10mm Grey 12mm Air 6mm Clear	6mm Evantage Clear 12mm Air 6mm Clear	6mm Evantage Grey 12mm Air 6mm Clear	6mm Evantage S/Green 12mm Air 6mm Clear	6mm Evantage S/Blue 12mm Air 6mm Clear
<b>FRAME: H</b> 	UW	3.425	3.421	3.425	3.421	3.094	3.093	3.098	3.093
	SHGC	0.391	0.354	0.261	0.212	0.314	0.199	0.180	0.176
	TVW	0.401	0.388	0.189	0.126	0.314	0.148	0.227	0.179
<b>FRAME: I</b> 	UW	3.279	3.270	3.279	3.270	2.859	2.859	2.865	2.859
	SHGC	0.463	0.419	0.305	0.246	0.370	0.231	0.207	0.202
	TVW	0.487	0.471	0.230	0.153	0.382	0.180	0.276	0.218
<b>FRAME: J</b> 	UW	3.175	3.175	3.175	3.175	2.678	2.678	2.685	2.678
	SHGC	0.535	0.482	0.349	0.279	0.425	0.261	0.234	0.228
	TVW	0.574	0.555	0.270	0.181	0.449	0.211	0.324	0.256
<b>FRAME: K</b> 	UW	3.126	3.122	3.126	3.122	2.603	2.603	2.610	2.603
	SHGC	0.555	0.500	0.361	0.289	0.440	0.270	0.241	0.235
	TVW	0.597	0.578	0.281	0.188	0.468	0.220	0.338	0.267
<b>AFRC Lab Fenestration Performance Report</b>						<b>1/02/2018</b>	<b>B-19</b>		

Windows are assessed for performance in four different ways.

U - value , Solar Heat Gain Coefficient , Visible Transmittance , Air Infiltration

Uw U-value measures how well a product prevents heat from escaping the building in winter and entering the building in summer. The lower the U-value (Uw), the better the thermal efficiency.

SHGC Solar Heat Gain Coefficient, measures how well a product blocks heat from the sun's rays. SHGC is expressed as a number between 0 and 1. The lower the SHGC, the better a product is at blocking unwanted heat gain.

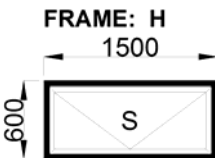
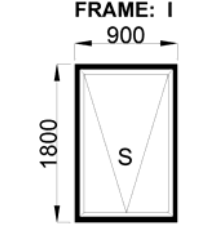
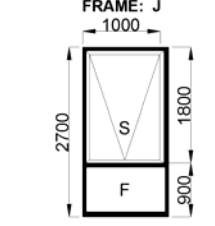
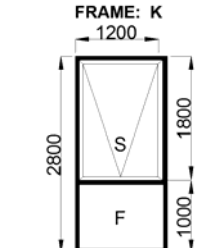
Twv Visible Transmittance (Twv) measures how much light comes through a window. Twv is expressed as a number between 0 and 1. The higher the number the more daylight will enter a room.

AI Air Infiltration (AI) measures how much outside air leaks into the building through the window. The lower the AI the better. An AI of 0 is only possible with fixed windows.



# PERFORMANCE TEST SPECIFICATIONS

## THERMAL ASSESSMENT

PATH Thermal Break Awning Sash 100 x 55 Frame Double Glazing 50mm Sash	GLASS SELECTION CHART - B20								
		6mm Energy Tech Clear 12mm Air 6mm Clear	6mm SolTech (#2) Neutral 12mm Air 6mm Clear PerformatechE	6mm SolTech Grey 12mm Air 6mm Clear PerformatechE	8.76mm Clear Laminated 12mm Argon 6mm Clear Performance	8.76mm Grey Laminated 12mm Argon 6mm Clear Performance	8.38mm Comfort+ Neutral 59 12mm Argon 6mm Clear	8.38mm Comfort+ Blue 44 12mm Argon 6mm Clear	
<b>FRAME: H</b> 	UW	3.051	2.950	2.941	2.803	2.803	3.051	3.047	
	SHGC	0.342	0.207	0.160	0.257	0.191	0.242	0.184	
	TVW	0.371	0.247	0.186	0.340	0.211	0.266	0.216	
<b>FRAME: I</b> 	UW	2.804	2.676	2.665	2.495	2.495	2.807	2.799	
	SHGC	0.404	0.240	0.183	0.300	0.221	0.282	0.213	
	TVW	0.451	0.300	0.226	0.412	0.256	0.323	0.263	
<b>FRAME: J</b> 	UW	2.614	2.462	1.459	2.253	2.251	2.620	2.618	
	SHGC	0.465	0.272	0.206	0.343	0.250	0.322	0.240	
	TVW	0.530	0.353	0.266	0.485	0.301	0.380	0.309	
<b>FRAME: K</b> 	UW	2.535	2.375	2.371	2.157	2.155	2.542	2.538	
	SHGC	0.482	0.281	0.212	0.355	0.258	0.333	0.248	
	TVW	0.553	0.368	0.277	0.506	0.314	0.396	0.322	
<b>AFRC Lab Fenestration Performance Report</b>						<b>1/02/2018</b>		<b>B-20</b>	

Windows are assessed for performance in four different ways.

U - value , Solar Heat Gain Coefficient , Visible Transmittance , Air Infiltration

**Uw** U-value measures how well a product prevents heat from escaping the building in winter and entering the building in summer.  
The lower the U-value (Uw), the better the thermal efficiency.

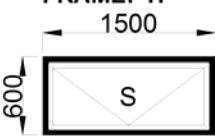
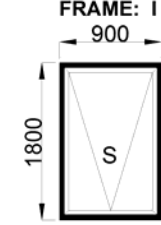
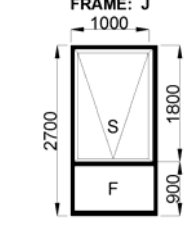
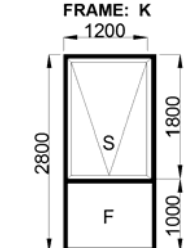
**SHGC** Solar Heat Gain Coefficient, measures how well a product blocks heat from the sun's rays. SHGC is expressed as a number between 0 and 1.  
The lower the SHGC, the better a product is at blocking unwanted heat gain.

**TVw** Visible Transmittance (Tvw) measures how much light comes through a window. Tvw is expressed as a number between 0 and 1.  
The higher the number the more daylight will enter a room.

**AI** Air Infiltration (AI) measures how much outside air leaks into the building through the window. The Lower the AI the better.  
An AI of 0 is only possible with fixed windows.

# PERFORMANCE TEST SPECIFICATIONS

## THERMAL ASSESSMENT

PATH Thermal Break		GLASS SELECTION CHART - B21							
		6mm Clear 12mm Air 6mm Clear	10mm Clear 12mm Air 6mm Clear	6mm Grey 12mm Air 6mm Clear	10mm Grey 12mm Air 6mm Clear	6mm Evantage Clear 12mm Air 6mm Clear	6mm Evantage Grey 12mm Air 6mm Clear	6mm Evantage S/Green 12mm Air 6mm Clear	6mm Evantage S/Blue 12mm Air 6mm Clear
Awning Sash									
150 x 55 Frame Double Glazing									
50mm Sash									
<b>FRAME: H</b> 	UW	3.7	3.7	3.7	3.7	3.4	3.4	3.4	3.4
	SHGC	0.39	0.35	0.26	0.21	0.31	0.20	0.18	0.18
	TVW	0.39	0.38	0.18	0.12	0.31	0.14	0.22	0.17
<b>FRAME: I</b> 	UW	3.5	3.5	3.5	3.5	3.1	3.1	3.1	3.1
	SHGC	0.46	0.41	0.30	0.24	0.37	0.23	0.21	0.20
	TVW	0.48	0.46	0.23	0.15	0.37	0.18	0.27	0.21
<b>FRAME: J</b> 	UW	3.3	3.4	3.4	3.4	2.9	2.9	2.9	2.9
	SHGC	0.51	0.46	0.34	0.27	0.41	0.25	0.23	0.22
	TVW	0.55	0.53	0.26	0.17	0.43	0.20	0.31	0.24
<b>FRAME: K</b> 	UW	3.3	3.3	3.3	3.3	2.8	2.8	2.8	2.8
	SHGC	0.54	0.49	0.35	0.28	0.43	0.26	0.24	0.23
	TVW	0.58	0.56	0.27	0.18	0.45	0.21	0.33	0.26
<b>AFRC Lab Fenestration Performance Report</b>						<b>2/12/2020</b>		<b>B-21</b>	

Windows are assessed for performance in four different ways.

U - value , Solar Heat Gain Coefficient , Visible Transmittance , Air Infiltration

**Uw** U-value measures how well a product prevents heat from escaping the building in winter and entering the building in summer.  
The lower the U-value (Uw), the better the thermal efficiency.


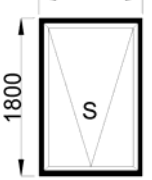
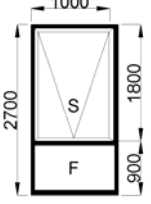
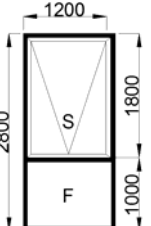
**SHGC** Solar Heat Gain Coefficient, measures how well a product blocks heat from the sun's rays. SHGC is expressed as a number between 0 and 1.  
The lower the SHGC, the better a product is at blocking unwanted heat gain.

**Tw** Visible Transmittance (Tw) measures how much light comes through a window.  
Tw is expressed as a number between 0 and 1.  
The higher the number the more daylight will enter a room.

**AI** Air Infiltration (AI) measures how much outside air leaks into the building through the window. The Lower the AI the better.  
An AI of 0 is only possible with fixed windows.

# PERFORMANCE TEST SPECIFICATIONS

## THERMAL ASSESSMENT

PATH Thermal Break	GLASS SELECTION CHART - B22									
	Awning Sash	6mm Energy Tech Clear 12mm Air 6mm Clear	6mm SolTech (#2) Neutral 12mm Air 6mm Clear PerformatechE	6mm SolTech Grey 12mm Air 6mm Clear PerformatechE	8.76mm Clear Laminated 12mm Argon 6mm Clear Performance	8.76mm Grey Laminated 12mm Argon 6mm Clear Performance	8.38mm Comfort+ Neutral 59 12mm Argon 6mm Clear	8.38mm Comfort+ Blue 44 12mm Argon 6mm Clear		
<b>150 x 55 Frame Double Glazing</b>  <b>50mm Sash</b>										
	<b>FRAME: H</b> 	UW	3.3	3.2	3.2	3.1	3.1	3.3	3.3	
		SHGC	0.34	0.21	0.16	0.26	0.19	0.24	0.19	
		TVW	0.36	0.24	0.18	0.33	0.20	0.26	0.21	
<b>FRAME: I</b> 	UW	3.0	2.9	2.9	2.7	2.7	3.0	3.0		
	SHGC	0.40	0.24	0.18	0.30	0.22	0.28	0.21		
	TVW	0.44	0.29	0.22	0.40	0.25	0.32	0.26		
<b>FRAME: J</b> 	UW	2.8	2.7	2.7	2.5	2.5	2.8	2.8		
	SHGC	0.45	0.26	0.20	0.33	0.24	0.31	0.23		
	TVW	0.50	0.34	0.26	0.46	0.29	0.36	0.29		
<b>FRAME: K</b> 	UW	2.7	2.6	2.6	2.4	2.4	2.7	2.7		
	SHGC	0.47	0.27	0.21	0.35	0.25	0.32	0.24		
	TVW	0.53	0.35	0.27	0.49	0.30	0.38	0.31		
<b>AFRC Lab Fenestration Performance Report</b>						<b>2/12/2020</b>		<b>B-22</b>		

Windows are assessed for performance in four different ways.

U - value , Solar Heat Gain Coefficient , Visible Transmittance , Air Infiltration

**Uw** U-value measures how well a product prevents heat from escaping the building in winter and entering the building in summer. The lower the U-value (Uw), the better the thermal efficiency.

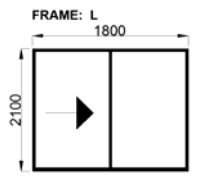
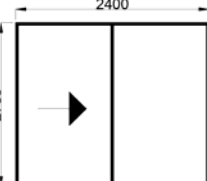
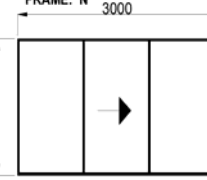
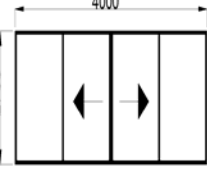
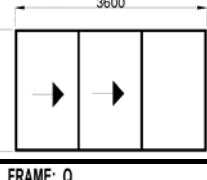
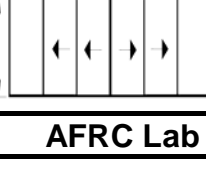
**SHGC** Solar Heat Gain Coefficient, measures how well a product blocks heat from the sun's rays. SHGC is expressed as a number between 0 and 1. The lower the SHGC, the better a product is at blocking unwanted heat gain.

**Tw** Visible Transmittance (Tw) measures how much light comes through a window. Tw is expressed as a number between 0 and 1. The higher the number the more daylight will enter a room.

**AI** Air Infiltration (AI) measures how much outside air leaks into the building through the window. The Lower the AI the better. An AI of 0 is only possible with fixed windows.

# PERFORMANCE TEST SPECIFICATIONS

## THERMAL ASSESSMENT

PATH Thermal Break Sliding Door		GLASS SELECTION CHART - B23							
		6mm Clear 12mm Air 6mm Clear	10mm Clear 12mm Air 6mm Clear	6mm Grey 12mm Air 6mm Clear	10mm Grey 12mm Air 6mm Clear	6mm Evantage Clear 12mm Air 6mm Clear	6mm Evantage Grey 12mm Air 6mm Clear	6mm Evantage S/Green 12mm Air 6mm Clear	6mm Evantage S/Blue 12mm Air 6mm Clear
	UW	3.265	3.241	3.265	3.241	2.762	2.762	2.769	2.762
	SHGC	0.531	0.478	0.345	0.274	0.420	0.257	0.229	0.223
	TVW	0.575	0.556	0.271	0.181	0.450	0.212	0.325	0.257
	UW	3.140	3.115	3.140	3.115	2.587	2.586	2.594	2.586
	SHGC	0.572	0.514	0.370	0.294	0.452	0.275	0.245	0.239
	TVW	0.623	0.602	0.293	0.196	0.488	0.229	0.352	0.278
	UW	3.207	3.181	3.207	3.181	2.659	2.659	2.667	2.659
	SHGC	0.570	0.513	0.370	0.294	0.451	0.275	0.245	0.238
	TVW	0.620	0.600	0.292	0.195	0.486	0.229	0.351	0.277
	UW	3.170	3.145	3.170	3.145	2.627	2.627	2.635	2.627
	SHGC	0.564	0.507	0.365	0.290	0.446	0.272	0.242	0.236
	TVW	0.614	0.593	0.289	0.193	0.481	0.226	0.347	0.274
PATH Thermal Break Sliding Door		GLASS SELECTION CHART - B24							
		6mm Clear 12mm Air 6mm Clear	10mm Clear 12mm Air 6mm Clear	6mm Grey 12mm Air 6mm Clear	10mm Grey 12mm Air 6mm Clear	6mm Evantage Clear 12mm Air 6mm Clear	6mm Evantage Grey 12mm Air 6mm Clear	6mm Evantage S/Green 12mm Air 6mm Clear	6mm Evantage S/Blue 12mm Air 6mm Clear
	UW	3.257	3.232	3.257	3.232	2.715	2.714	2.722	2.714
	SHGC	0.568	0.511	0.369	0.294	0.450	0.275	0.245	0.239
	TVW	0.616	0.595	0.290	0.194	0.482	0.227	0.348	0.275
	UW	3.303	3.275	3.303	3.275	2.753	2.752	2.760	2.752
	SHGC	0.577	0.520	0.375	0.298	0.457	0.279	0.249	0.243
	TVW	0.625	0.605	0.294	0.197	0.490	0.230	0.354	0.279
AFRC Lab Fenestration Performance Report						1/02/2018	B-23-24		

# PERFORMANCE TEST SPECIFICATIONS

## THERMAL ASSESSMENT

PATH Thermal Break Sliding Door 100 x 55 Frame Double Glazing 2 Track		GLASS SELECTION CHART - B25							
		6mm Energy Tech Clear 12mm Air 6mm Clear	6mm SolTech (#2) Neutral 12mm Air 6mm Clear PerformatechE	6mm SolTech Grey 12mm Air 6mm Clear PerformatechE	8.76mm Clear Laminated 12mm Argon 6mm Clear Performance	8.76mm Grey Laminated 12mm Argon 6mm Clear Performance	8.38mm Comfort+ Neutral 59 12mm Argon 6mm Clear	8.38mm Comfort+ Blue 44 12mm Argon 6mm Clear	
	UW	2.697	2.542	2.520	2.322	2.322	2.694	2.680	
	SHGC	0.461	0.267	0.201	0.338	0.245	0.318	0.235	
	TVW	0.532	0.354	0.266	0.487	0.302	0.381	0.310	
	UW	2.514	2.344	2.323	2.107	2.107	2.515	2.500	
	SHGC	0.496	0.287	0.214	0.363	0.262	0.341	0.252	
	TVW	0.576	0.333	0.288	0.527	0.327	0.412	0.336	
	UW	2.587	2.419	2.397	2.182	2.182	2.587	2.572	
	SHGC	0.495	0.286	0.214	0.363	0.262	0.340	0.251	
	TVW	0.574	0.382	0.287	0.525	0.326	0.411	0.334	
	UW	2.556	2.390	2.368	2.155	2.155	2.556	2.542	
	SHGC	0.489	0.283	0.212	0.359	0.259	0.337	0.249	
	TVW	0.568	0.378	0.284	0.519	0.322	0.406	0.331	
PATH Thermal Break Sliding Door 150 x 55 Frame Double Glazing 3 Track		GLASS SELECTION CHART - B26							
		6mm Energy Tech Clear 12mm Air 6mm Clear	6mm SolTech (#2) Neutral 12mm Air 6mm Clear PerformatechE	6mm SolTech Grey 12mm Air 6mm Clear PerformatechE	8.76mm Clear Laminated 12mm Argon 6mm Clear Performance	8.76mm Grey Laminated 12mm Argon 6mm Clear Performance	8.38mm Comfort+ Neutral 59 12mm Argon 6mm Clear	8.38mm Comfort+ Blue 44 12mm Argon 6mm Clear	
	UW	2.501	2.477	2.455	2.243	2.243	2.639	2.629	
	SHGC	0.286	0.286	0.215	0.362	0.262	0.340	0.252	
	TVW	0.379	0.379	0.285	0.521	0.324	0.408	0.332	
	UW	2.681	2.512	2.487	2.272	2.272	2.671	2.663	
	SHGC	0.501	0.291	0.218	0.368	0.266	0.346	0.256	
	TVW	0.578	0.385	0.289	0.529	0.329	0.414	0.337	
AFRC Lab Fenestration Performance Report						1/02/2018		B-25-26	



po box 83, Oakleigh South  
Vic 3167, Australia  
davidmorehouse@afrcclab.com.au  
**www.afrcclab.com.au**  
ABN 67618023144

## AFRC Lab Single Value Acoustic Simulation Report

Prepared for **PMAA PTY LTD**

[2/ 22 Eastern Service Road, Stapylton Queensland 4207](#)

System Modelled - **Path XO SD 10.38\_10\_8.38 Laminate with Megasorber FG50 as per supplied detail**

Prepared by **DM@AFRC Lab Pty Ltd 20/02/2018**

This report has been generated following the Methods and procedures set out in AS/NZS ISO 717.1:2004 Acoustics - Rating of sound insulation in buildings and of building elements Airborne sound insulation

This report is only to be read in whole, in conjunction with the above listed drawings. Only the System nominated in this report have been simulated, Any changes to the Product schedule will require a new rating to be applied to changed items, The system modelled is NOT Generic and this report is only valid for the listed Path XO SD 10.38\_10\_8.38 Laminate as per supplied detail system.

### Report Limitations

This Report has been issued to provide information to enable the benchmarking of the performance of the proposed systems against Australian Standards.

The environment conditions that have been used in this analysis are nominated in the supporting documentation, these are not representative of any actual project design conditions, therefore the performance outlined in this report cannot be used directly for detailed design and sizing of building services systems and components.

### Limitations

This document is and shall remain the property of **AFRC Lab** The document may only be used for the purposes for which it was commissioned and in accordance with the Terms of Engagement for this commission. Unauthorised use of this document in any form is prohibited.

### Modelling Disclaimer

We note the test models constructed are basic in nature to minimise the number of variables which could affect the results and such do not fully reflect any specific real life scenarios. The intent is to use the result to indicate the likely Acoustic performance for the subject system using industry recognised simulation tools.

Due to the various limitations of simulation tools, modelling does not and can not fully represent all of the intricacies of the system or building, its operation, and interaction with its surrounding environment. As a result, the computer model results only represent an interpretation of the potential performance of the subject system. No guarantee of building performance in practice can be based on modelling results alone.

TEST REPORT  
"B"  
PAGE - B26



## AFRC Lab Single Value Acoustic Simulation Report

### Introduction.

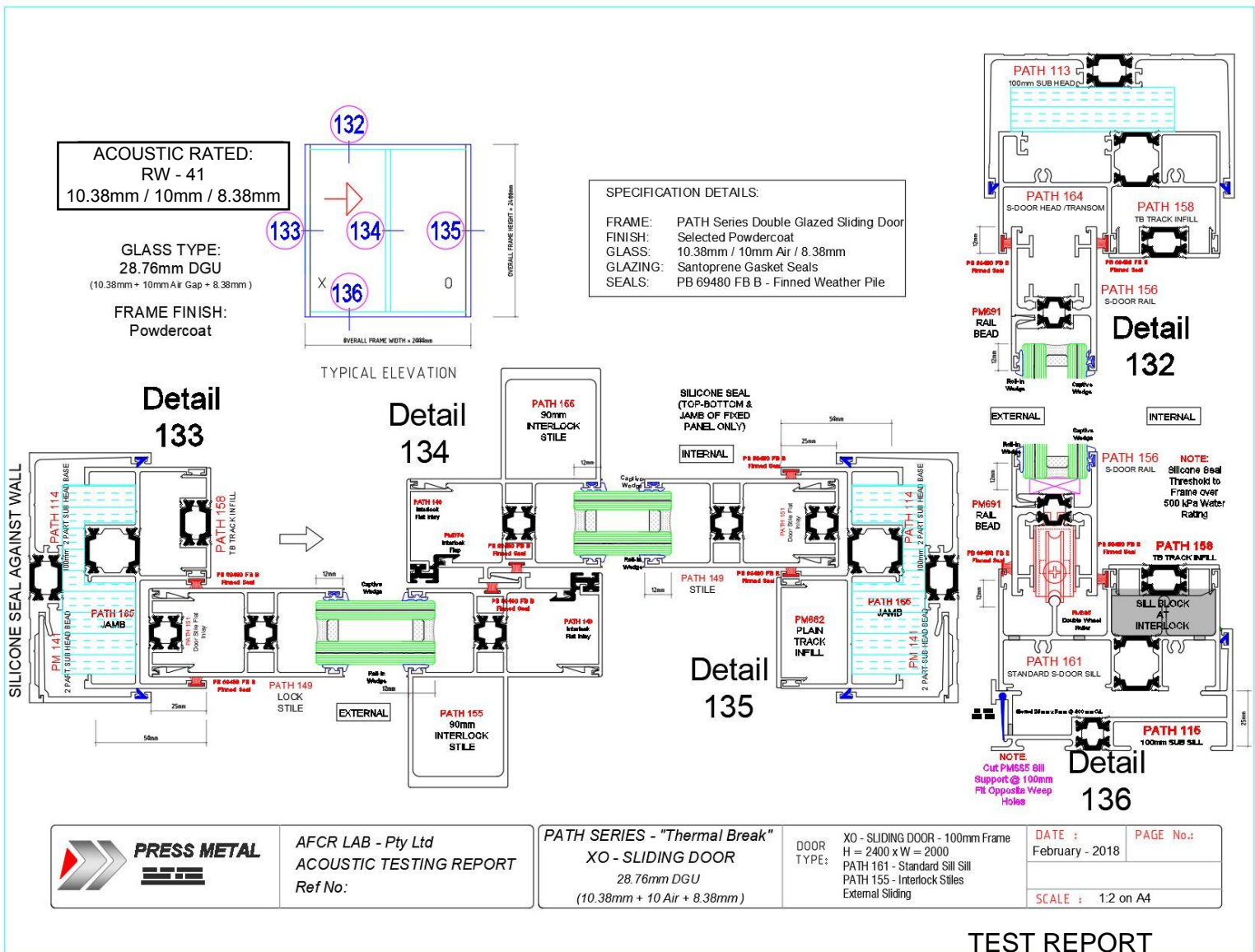
AFRC Lab have been appointed by PMAA to analyse the overall single value Number for sound reduction through the system known as Path XO SD 10.38\_10\_8.38 Laminate .

The Acoustic performance has been modelled based on the shop drawings provided by PMAA.

AFRC Lab has followed the methods and processes from AS/NZS ISO 717.1:2004 Acoustics - Rating of sound insulation in buildings and of building elements Airborne sound insulation

### System Assessed.

The Acoustic assessment only applies to the system nominated as item Path XO SD 10.38\_10\_8.38 Laminate as per supplied detail. Any other systems are outside of this study and are not included in this report.





po box 83, Oakleigh South  
Vic 3167, Australia  
davidmorehouse@afrcclab.com.au  
**www.afrcclab.com.au**  
ABN 67618023144

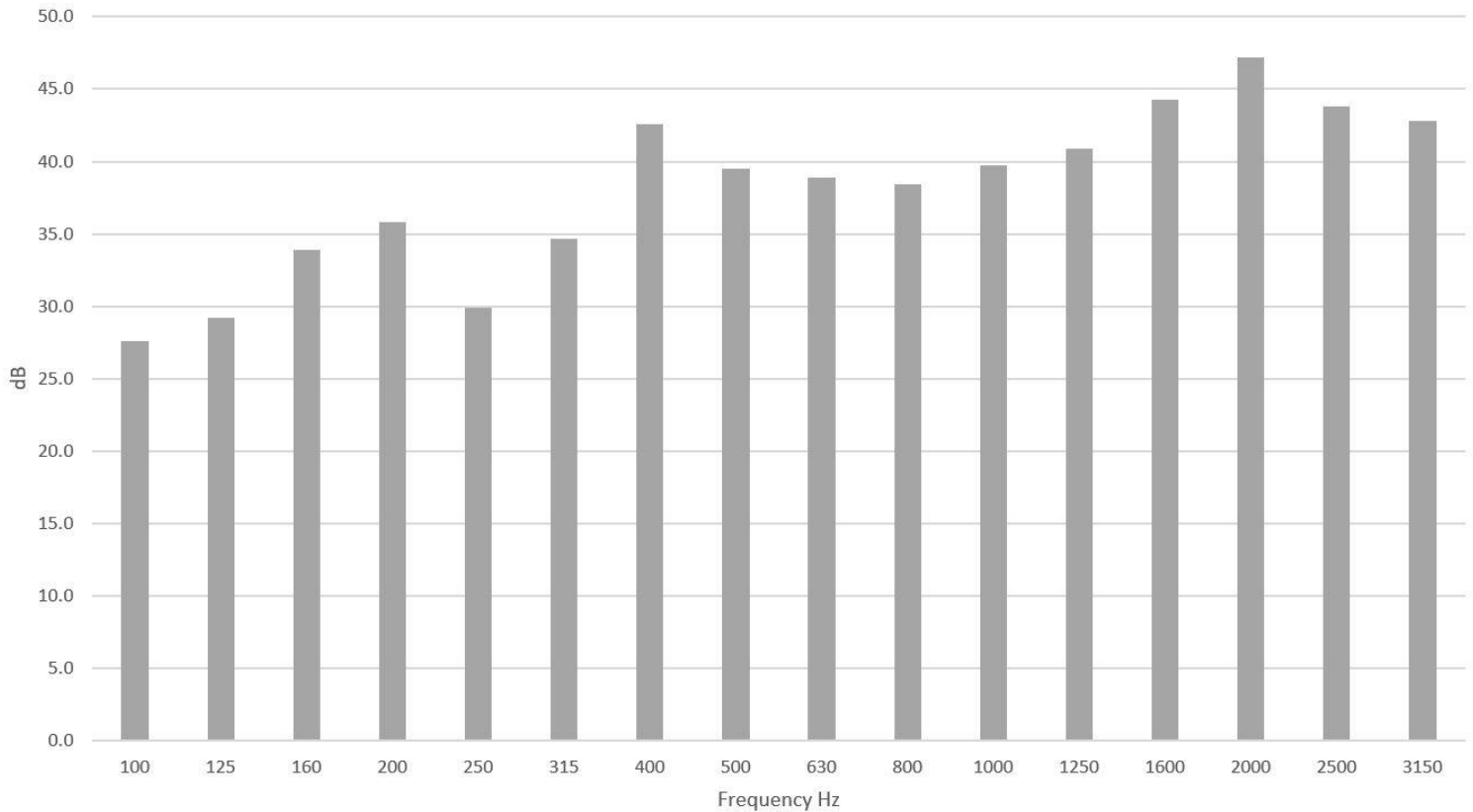
## AFRC Lab Single Value Acoustic Simulation Report

### Conclusion:

The Single Number quantity derived from one-third octave band values is

# Rw 41 (C-1, Ctr-3)

Sound Reduction in dB across 1/3rd Octave Bands  
PMAA 8000 Series XO SD with 10.38\_10\_8.38 and Acoustic Foam



TEST REPORT  
"B"  
PAGE - B28





po box 83, Oakleigh South  
Vic 3167, Australia  
davidmorehouse@afrcclab.com.au  
**www.afrcclab.com.au**  
ABN 67618023144

## AFRC Lab Single Value Acoustic Simulation Report

### Transmission Sound reduction values across $\frac{1}{3}$ Octave Band

Table 1 - Sound Reduction across 1/3rd Octave bands	
PMAA 8000 Series XO SD 10.38_10_8.38 and acoustic foam	
Frequency 1/3rd Octave Bands Hz	Sound Reduction dB
100	27.6
125	29.2
160	33.9
200	35.8
250	29.9
315	34.7
400	42.6
500	39.5
630	38.9
800	38.4
1000	39.7
1250	40.9
1600	44.3
2000	47.2
2500	43.8
3150	42.8

TEST REPORT  
"B"  
PAGE - B29



**PRESS METAL**

Press Metal Aluminium (Australia) Pty Limited  
www.pressmetal.com.au

**GUIDE TO ACOUSTIC VALUES**




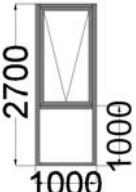
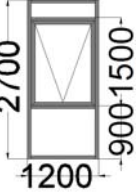
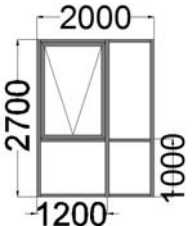
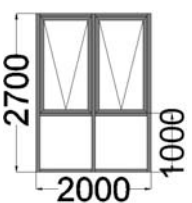
PATH THERMAL BREAK SERIES FIXED LITE FRAMING		GLASS TYPES / THICKNESS														
		16mm DGU (4mm / 8 Air / 4mm)	18.00mm DGU (4mm / 10 Air / 4mm)	18.00mm DGU (5mm / 8 Air / 5mm)	18.38mm DGU (6.38mm / 8 Air / 4mm)	18.76mm DGU (6.38mm / 6 Air / 6.38mm)	20.00mm DGU (6mm / 8 Air / 6mm)	22.00mm DGU (6mm / 10 Air / 6mm)	22.76mm DGU (6.38mm / 10 Air / 6.38mm)	24.00mm DGU (6mm / 12 Air / 6mm)	24.76mm DGU (6.38mm / 12 Air / 6.38mm)	26mm DGU (8mm / 10 Air / 8mm)	26.76mm DGU (8.38 / 10 Air / 8.38mm)	28.00mm DGU (8mm / 12 Air / 8mm)	28.76mm DGU (8.38 / 12 Air / 8.38mm)	30.76mm DGU (10.38 / 10 Air / 10.38mm)
	RW	27	27	29	29	30	28	29	32	30	32	31	35	31	33	35
	RW	28	28	30	30	31	29	30	33	31	33	32	36	32	34	36
	RW	27	27	29	29	30	28	29	32	30	32	31	35	31	33	35
	RW	27	27	29	29	30	28	29	32	30	32	31	35	31	33	35
	RW	27	27	29	29	30	28	29	32	30	32	31	35	31	33	35

**PATH SERIES**

**THERMAL BREAK WINDOWS & DOORS**

**B27**



PATH THERMAL BREAK SERIES AWNING SASH		GLASS TYPES / THICKNESS														
		16mm DGU (4mm / 8 Air / 4mm)	18.00mm DGU (4mm / 10 Air / 4mm)	18.00mm DGU (5mm / 8 Air / 5mm)	18.38mm DGU (6.38mm / 8 Air / 4mm)	18.76mm DGU (6.38mm / 6 Air / 6.38mm)	20.00mm DGU (6mm / 8 Air / 6mm)	22.00mm DGU (6mm / 10 Air / 6mm)	22.76mm DGU (6.38mm / 10 Air / 6.38mm)	24.00mm DGU (6mm / 12 Air / 6mm)	24.76mm DGU (6.38mm / 12 Air / 6.38mm)	26mm DGU (8mm / 10 Air / 8mm)	26.76mm DGU (8.38 / 10 Air / 8.38mm)	28.00mm DGU (8mm / 12 Air / 8mm)	28.76mm DGU (8.38 / 12 Air / 8.38mm)	30.76mm DGU (10.38 / 10 Air / 10.38mm)
	RW	29	29	31	31	32	30	31	34	32	34	33	37	33	35	37
	RW	29	29	31	31	32	30	31	34	32	34	33	37	33	35	37
	RW	29	29	31	31	32	30	31	34	32	34	33	37	33	35	37
	RW	28	28	30	30	31	29	30	33	31	33	32	36	32	34	36
	RW	27	27	29	29	30	28	29	32	30	32	31	35	31	33	35

**PATH SERIES**



PATH SERIES SLIDING DOORS		GLASS TYPES / THICKNESS														
		16mm DGU (4mm / 8 Air / 4mm)	18.00mm DGU (4mm / 10 Air / 4mm)	18.00mm DGU (5mm / 8 Air / 5mm)	18.38mm DGU (6.38mm / 8 Air / 4mm)	18.76mm DGU (6.38mm / 6 Air / 6.38mm)	20.00mm DGU (6mm / 8 Air / 6mm)	22.00mm DGU (6mm / 10 Air / 6mm)	22.76mm DGU (6.38mm / 10 Air / 6.38mm)	24.00mm DGU (6mm / 12 Air / 6mm)	24.76mm DGU (6.38mm / 12 Air / 6.38mm)	26mm DGU (8mm / 10 Air / 8mm)	26.76mm DGU (8.38 / 10 Air / 8.38mm)	28.00mm DGU (8mm / 12 Air / 8mm)	28.76mm DGU (8.38 / 12 Air / 8.38mm)	30.76mm DGU (10.38 / 10 Air / 10.38mm)
	RW	29	29	31	31	32	30	31	34	32	34	33	37	33	35	37
	RW	28	28	30	30	31	29	30	33	31	33	32	36	32	34	36
	RW	28	28	30	30	31	29	30	33	31	33	32	36	32	34	36
	RW	26	26	28	28	29	27	28	31	29	31	30	34	30	32	34
	RW	25	25	27	27	28	26	27	30	28	30	29	33	29	31	33

# PATH SERIES TOOLING

TC1600 HYDRAULIC PRESS  
TC09000-1 & TC09000-2 TOOL SETS



ASK YOUR PMAA ACCOUNT  
MANAGER FOR DETAILS

# SECTION: C

## *Machining Details*

**Pages: C01 to C26**

*path*

*thermal break window system*

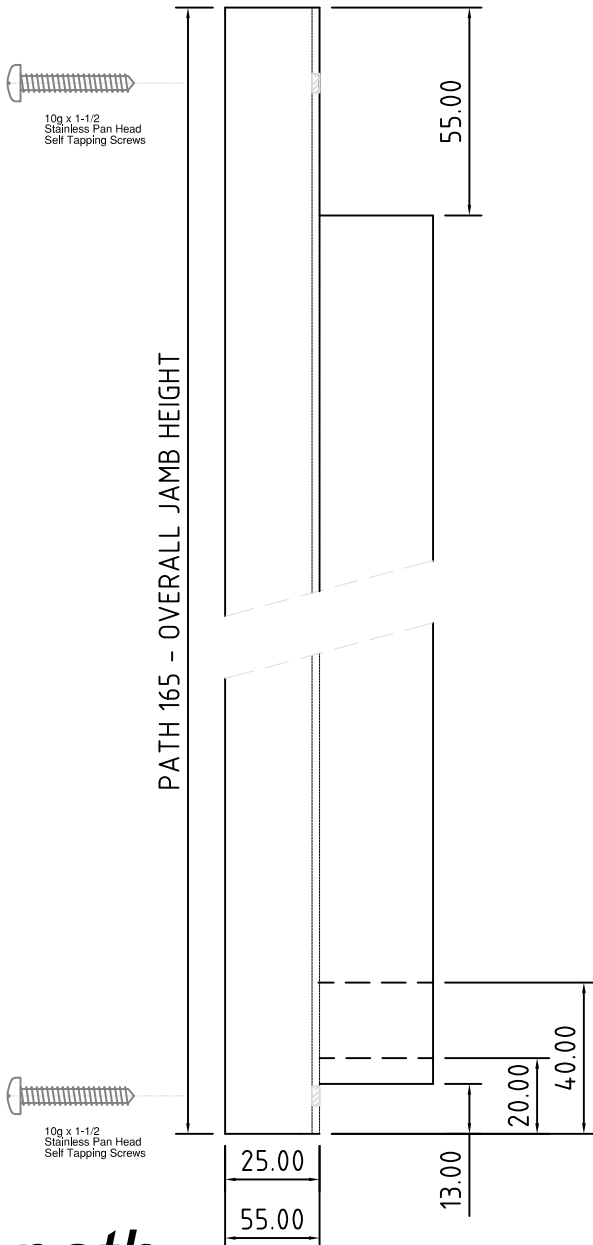
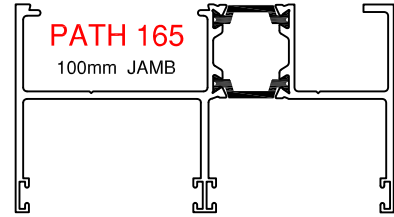
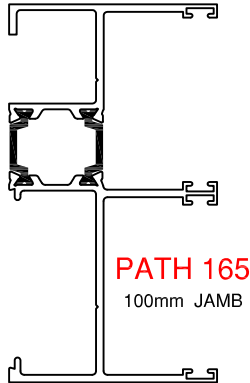
**PAGE - C**

# PATH 165 - JAMB

## MACHINING DETAILS

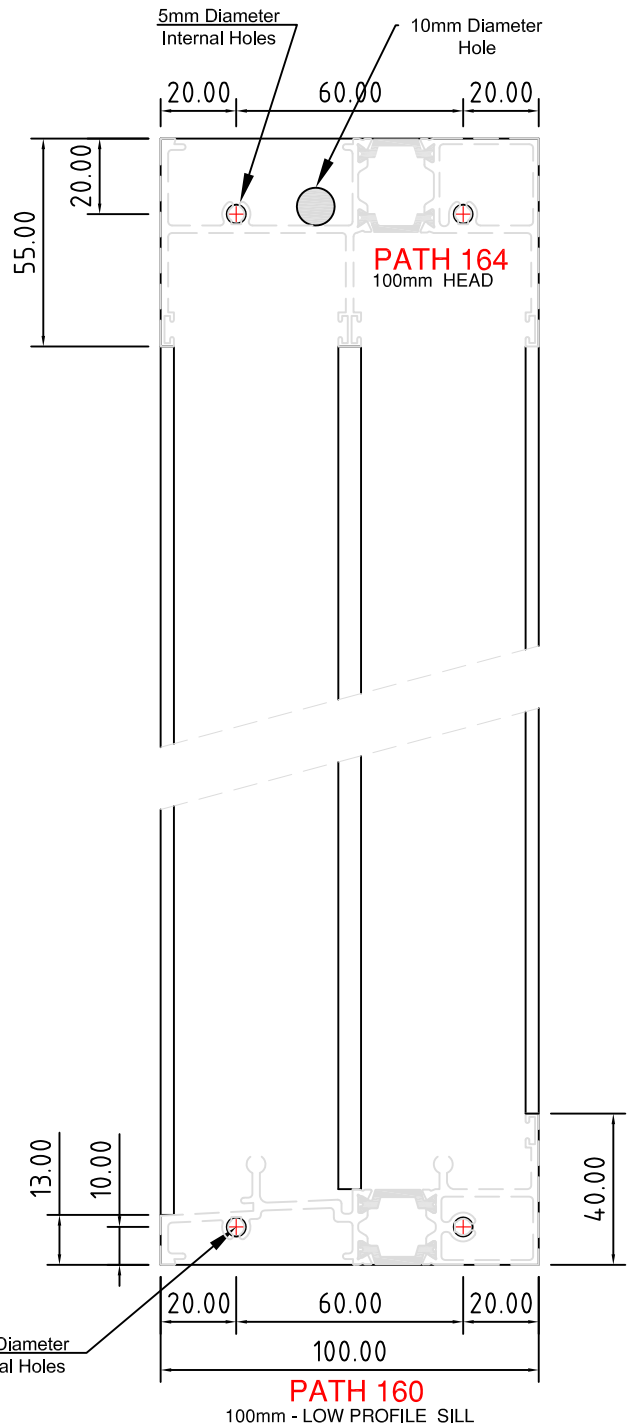
### TO SUIT PATH 163 HEAD & 160 SILL

SCALE 1:2



55mm x 100mm x 1.5 SINGLE SIDED FOAM JOINT GASKET

40mm x 100mm x 1.5 SINGLE SIDED FOAM JOINT GASKET



**path**

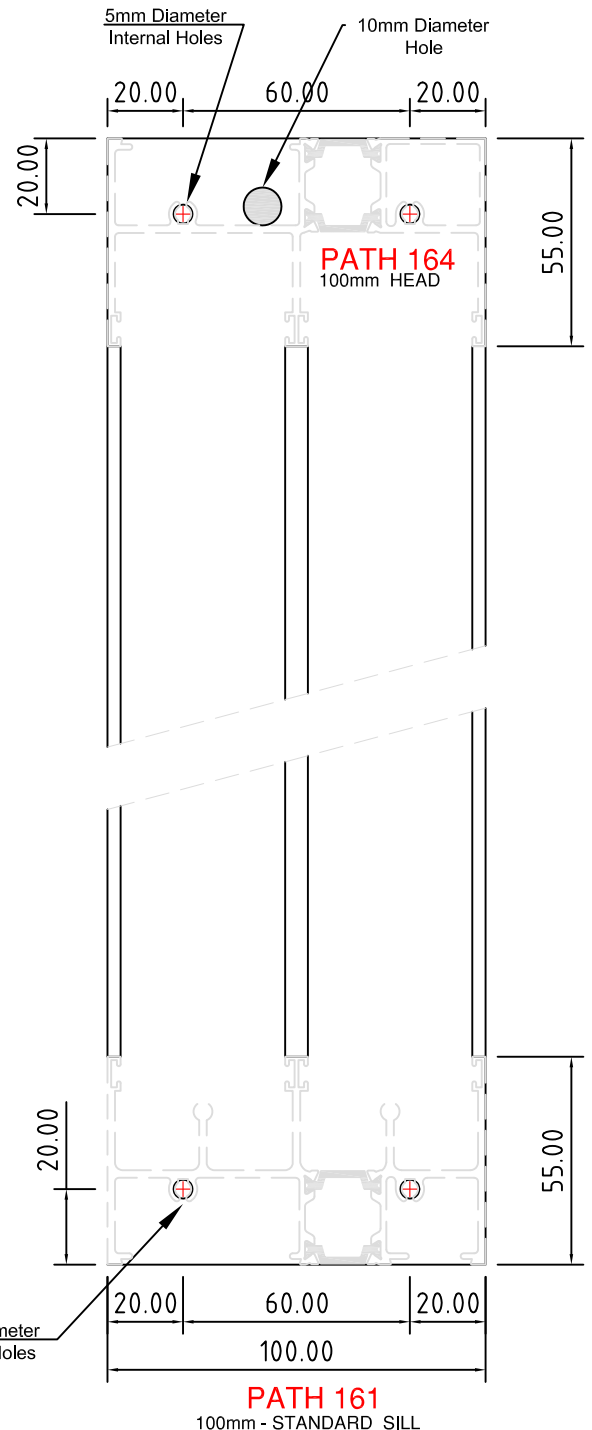
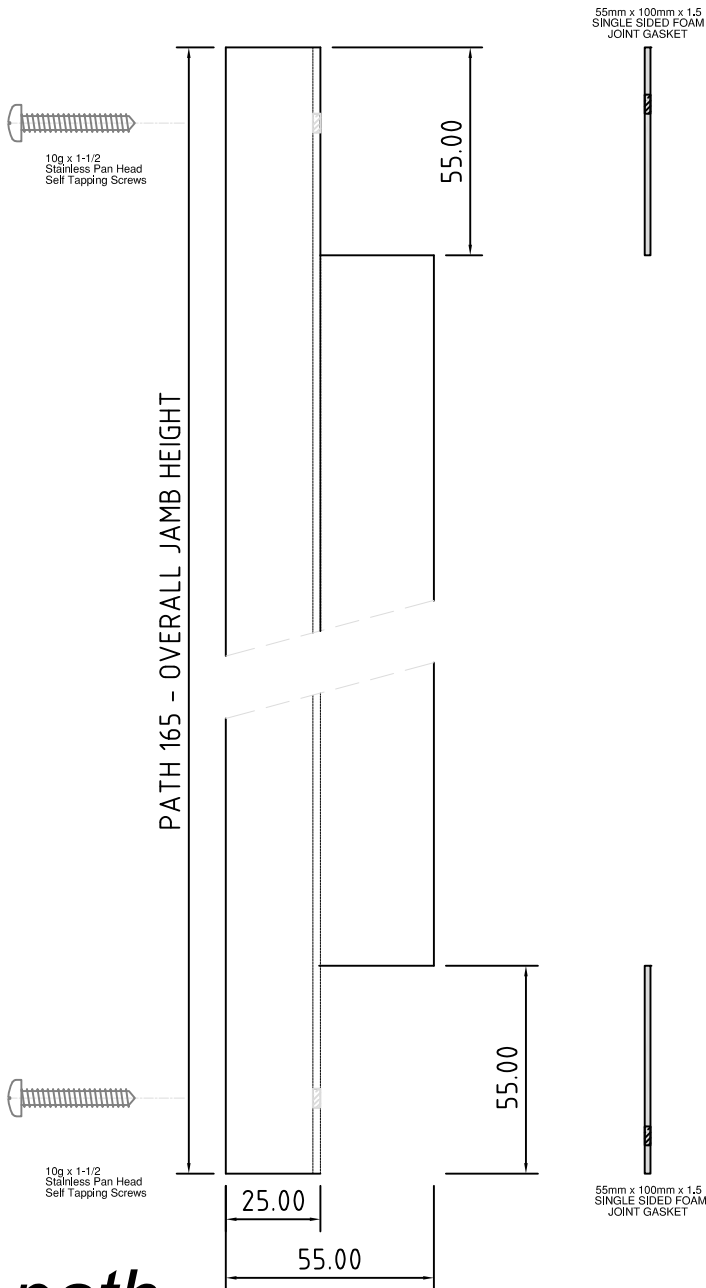
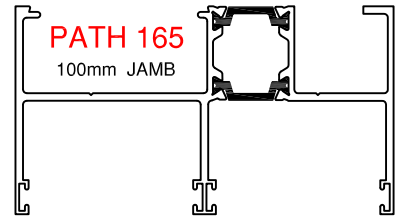
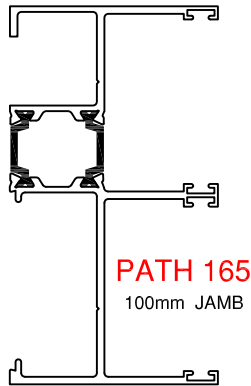
thermal break window system

# PATH 165 - JAMB

## MACHINING DETAILS

### TO SUIT PATH 163 HEAD & 161 SILL

SCALE 1:2



**path**

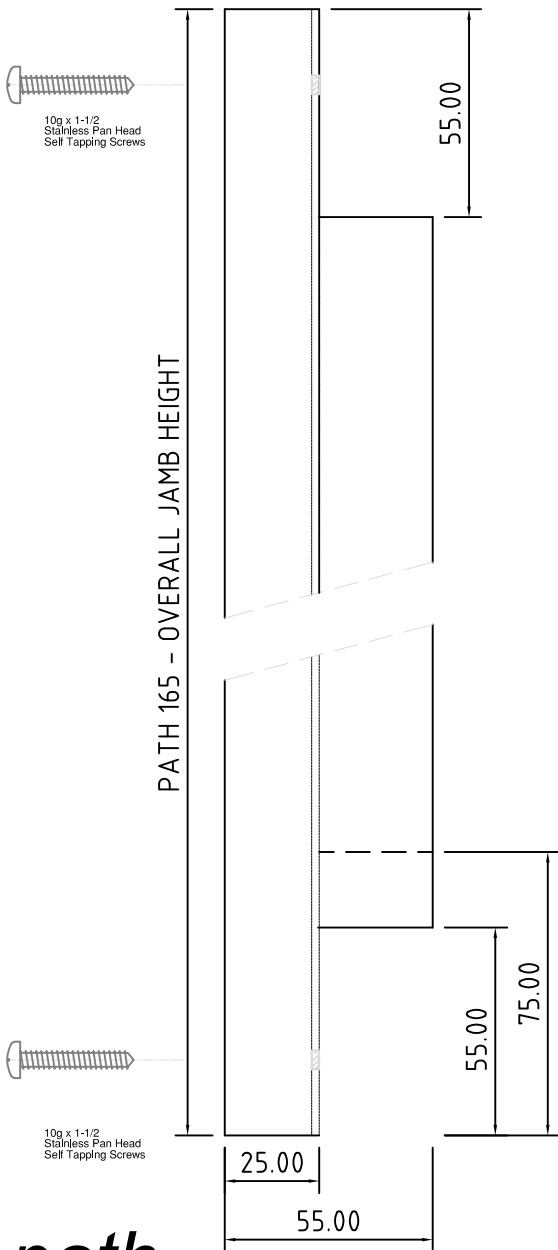
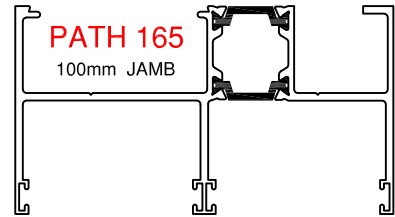
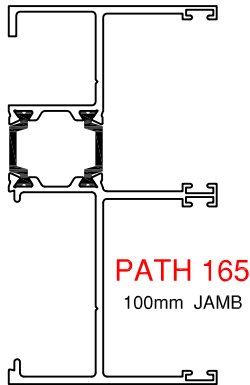
thermal break window system

# PATH 165 - JAMB

## MACHINING DETAILS

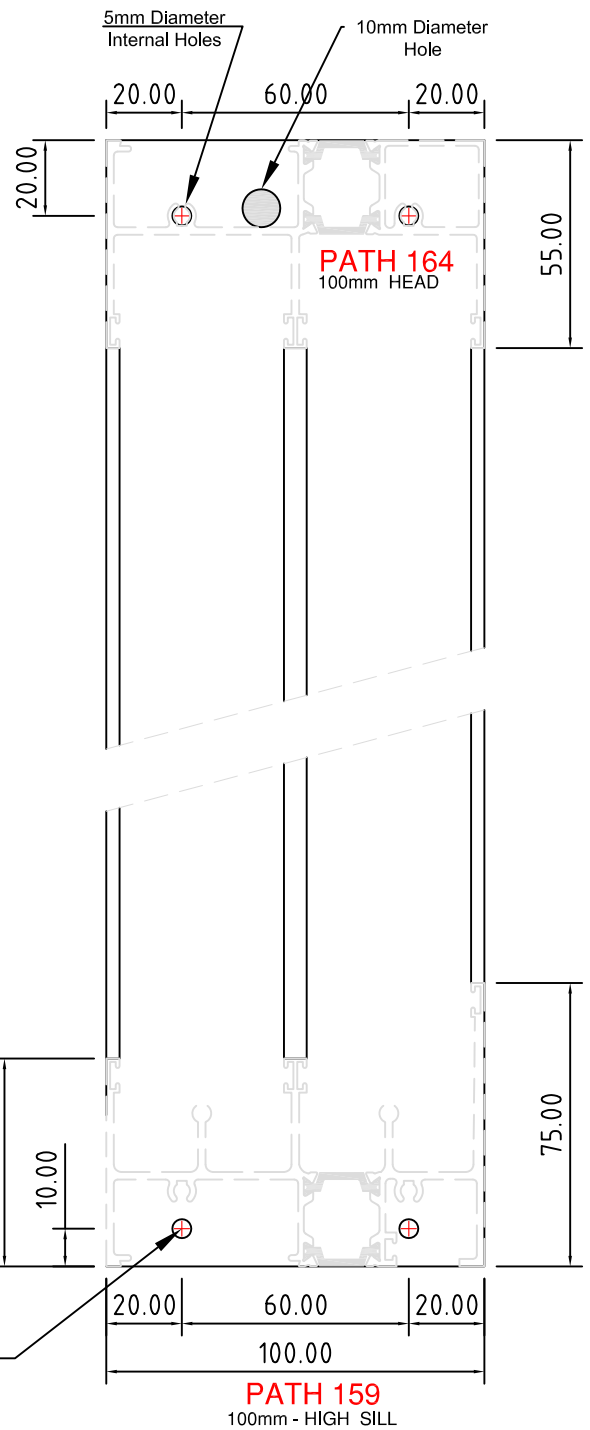
### TO SUIT PATH 163 HEAD & 159 SILL

SCALE 1:2



55mm x 100mm x 1.5 SINGLE SIDED FOAM JOINT GASKET

60mm x 100mm x 1.5 SINGLE SIDED FOAM JOINT GASKET



**path**

thermal break window system

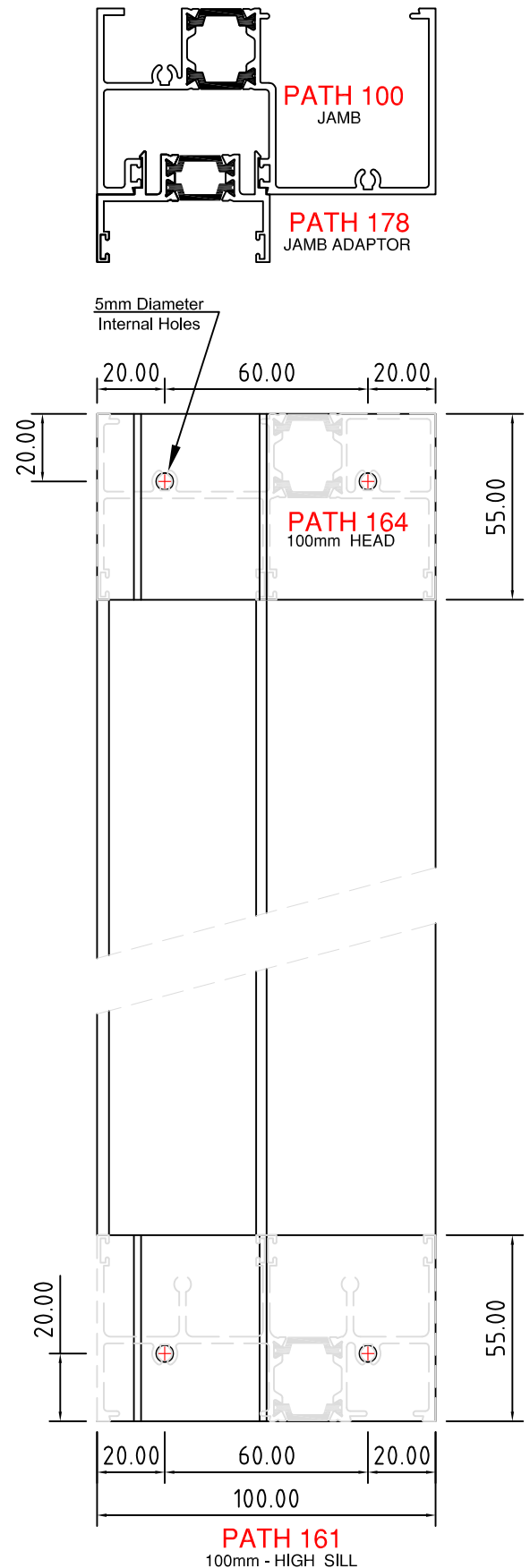
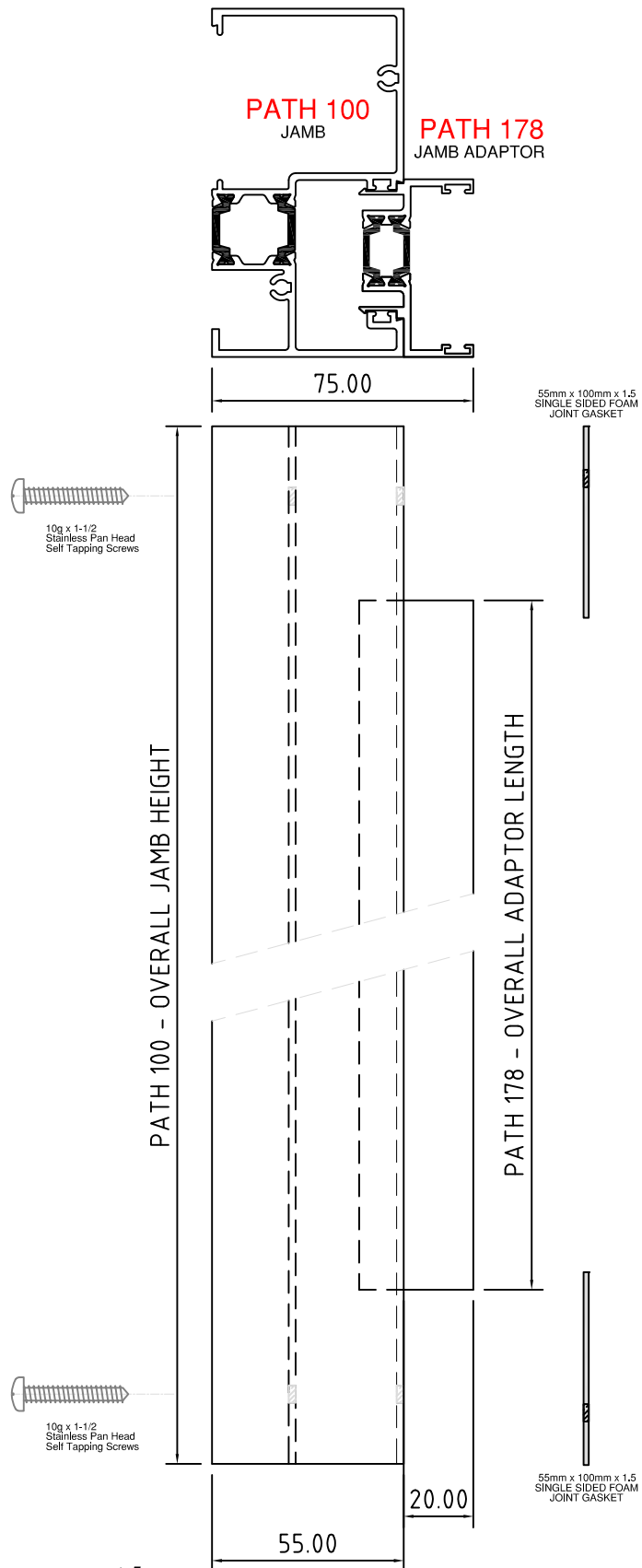


# PATH 100 - JAMB PATH 178 JAMB ADAPTOR

MACHINING DETAILS

TO SUIT PATH 163 HEAD & 161 SILL

SCALE 1:2



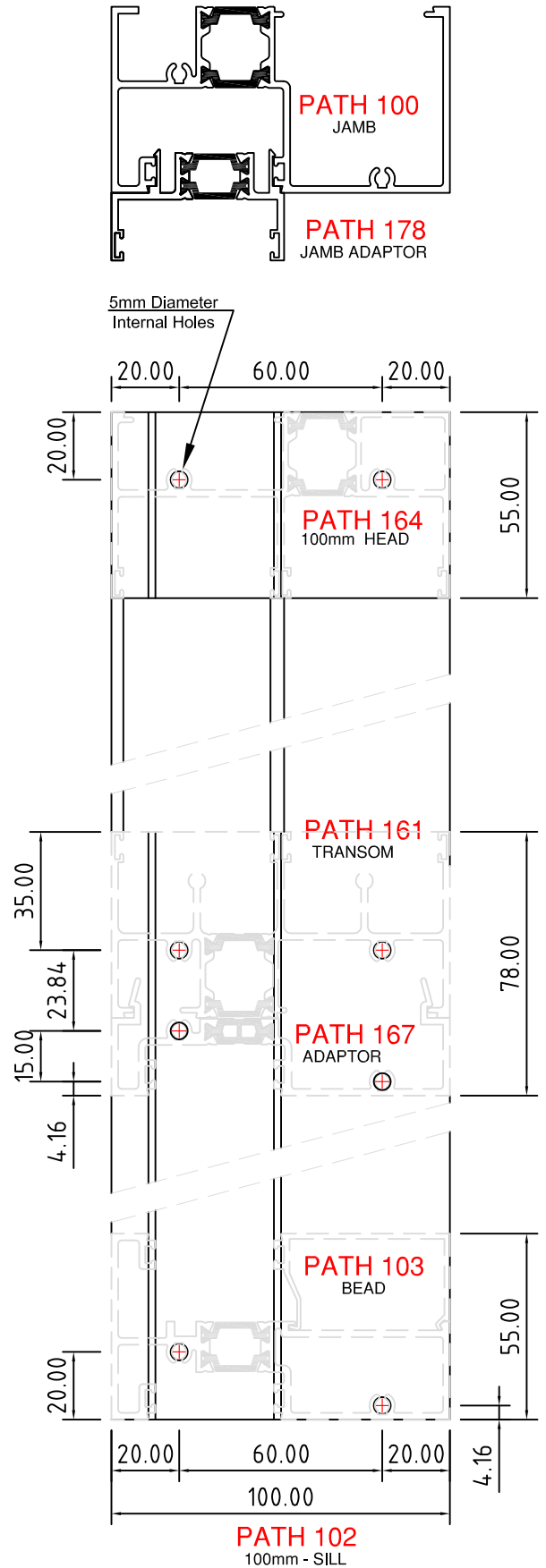
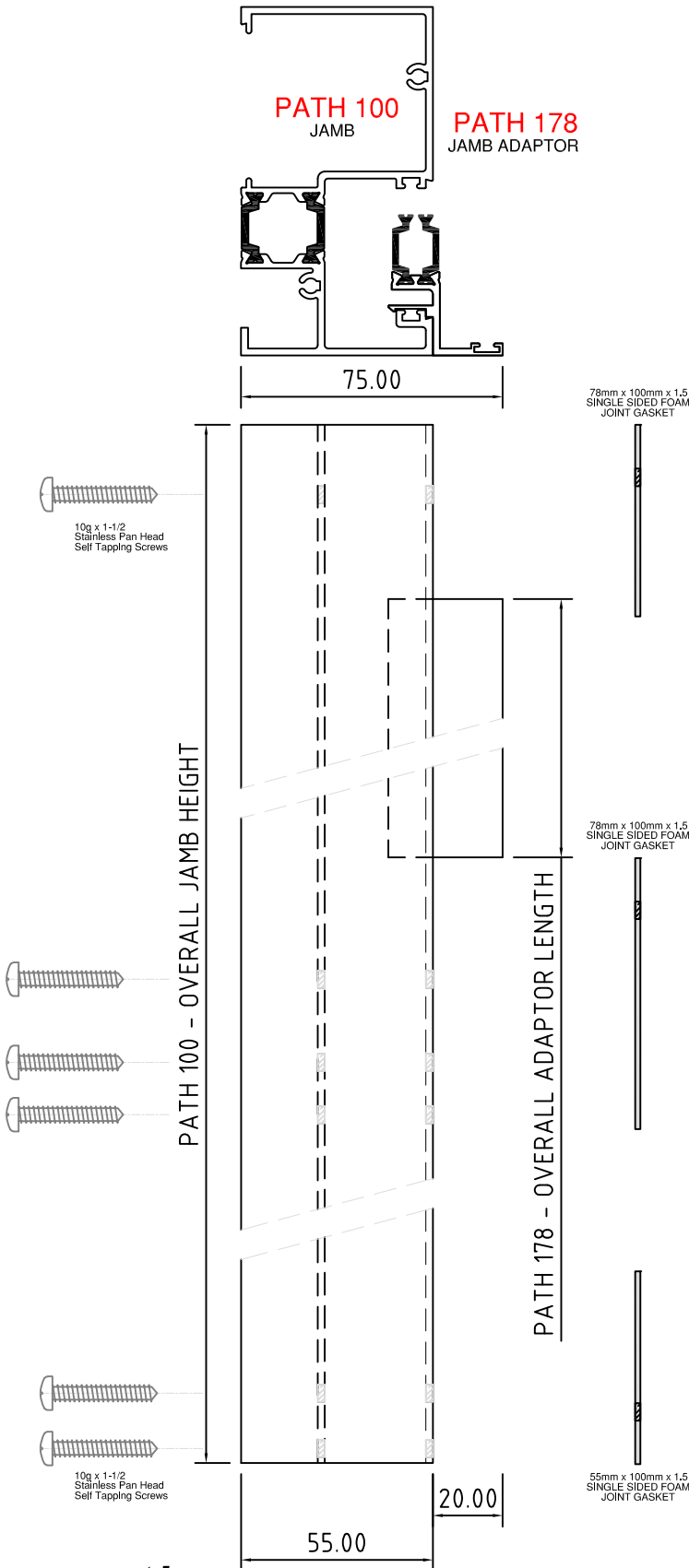
**path**

thermal break window system

# PATH 100 - JAMB PATH 178 JAMB ADAPTOR

SCALE 1:2

MACHINING DETAILS  
TO SUIT PATH 163 HEAD - PATH 161 / 167  
TRANSOM & PATH 102 HEAD



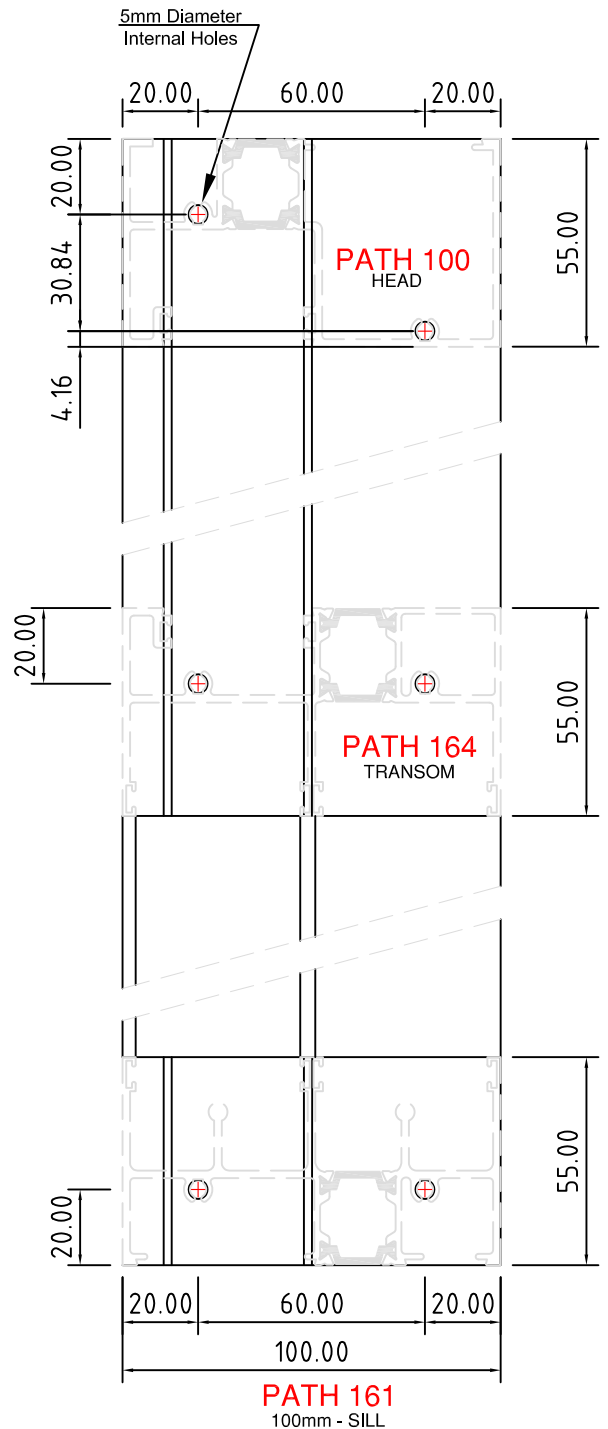
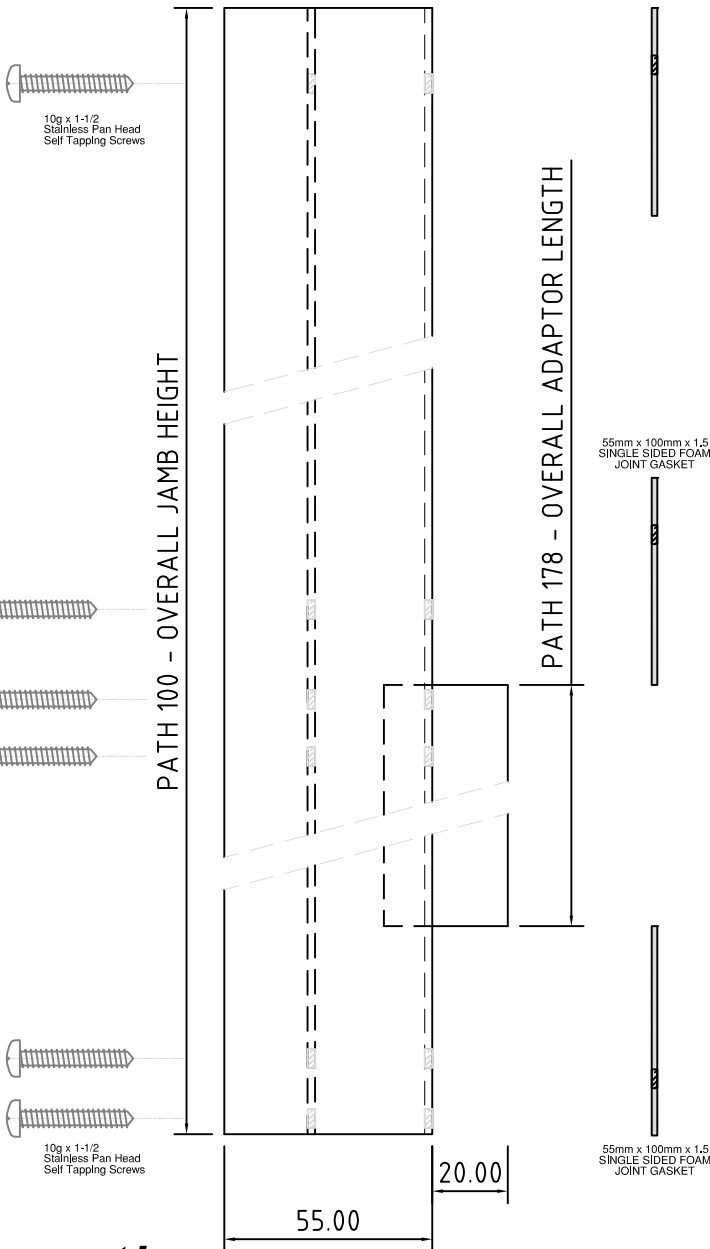
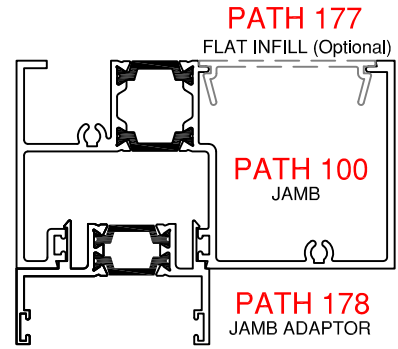
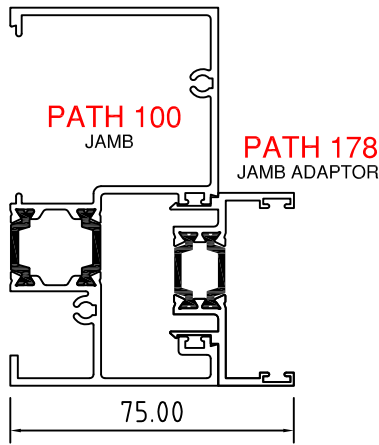
**path**

thermal break window system

# PATH 100 - JAMB PATH 178 JAMB ADAPTOR

MACHINING DETAILS

TO SUIT PATH 100 HEAD - PATH 164 TRANSOM  
& PATH 161 SILL



**path**

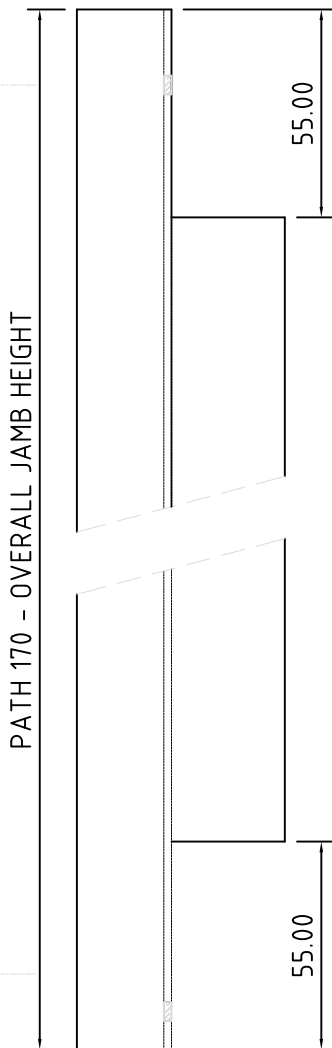
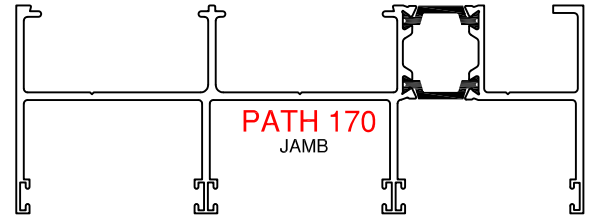
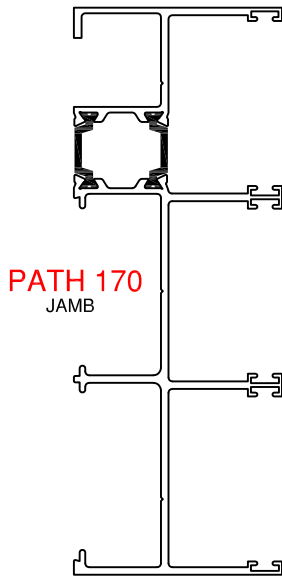
thermal break window system

# PATH 170 - JAMB

## MACHINING DETAILS

### TO SUIT PATH 168 HEAD & 169 SILL

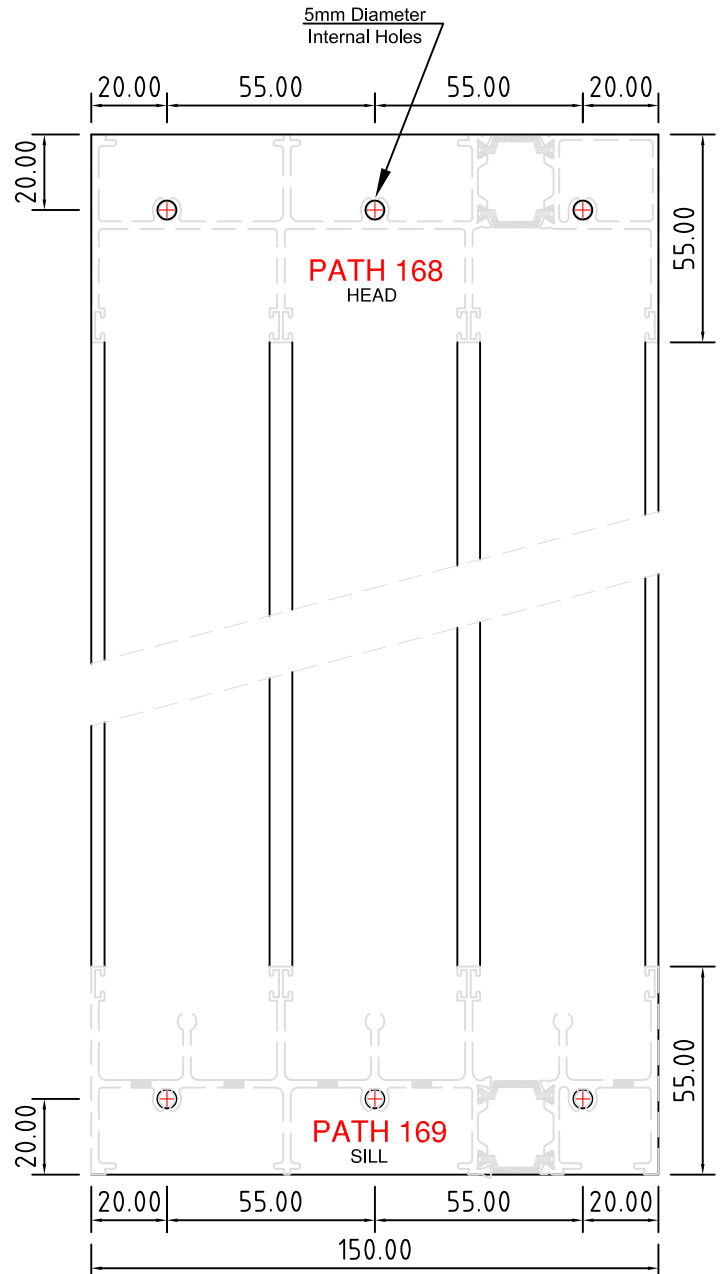
SCALE 1:2



55mm x 150mm x 1.5  
SINGLE SIDED FOAM  
JOINT GASKET



55mm x 150mm x 1.5  
SINGLE SIDED FOAM  
JOINT GASKET

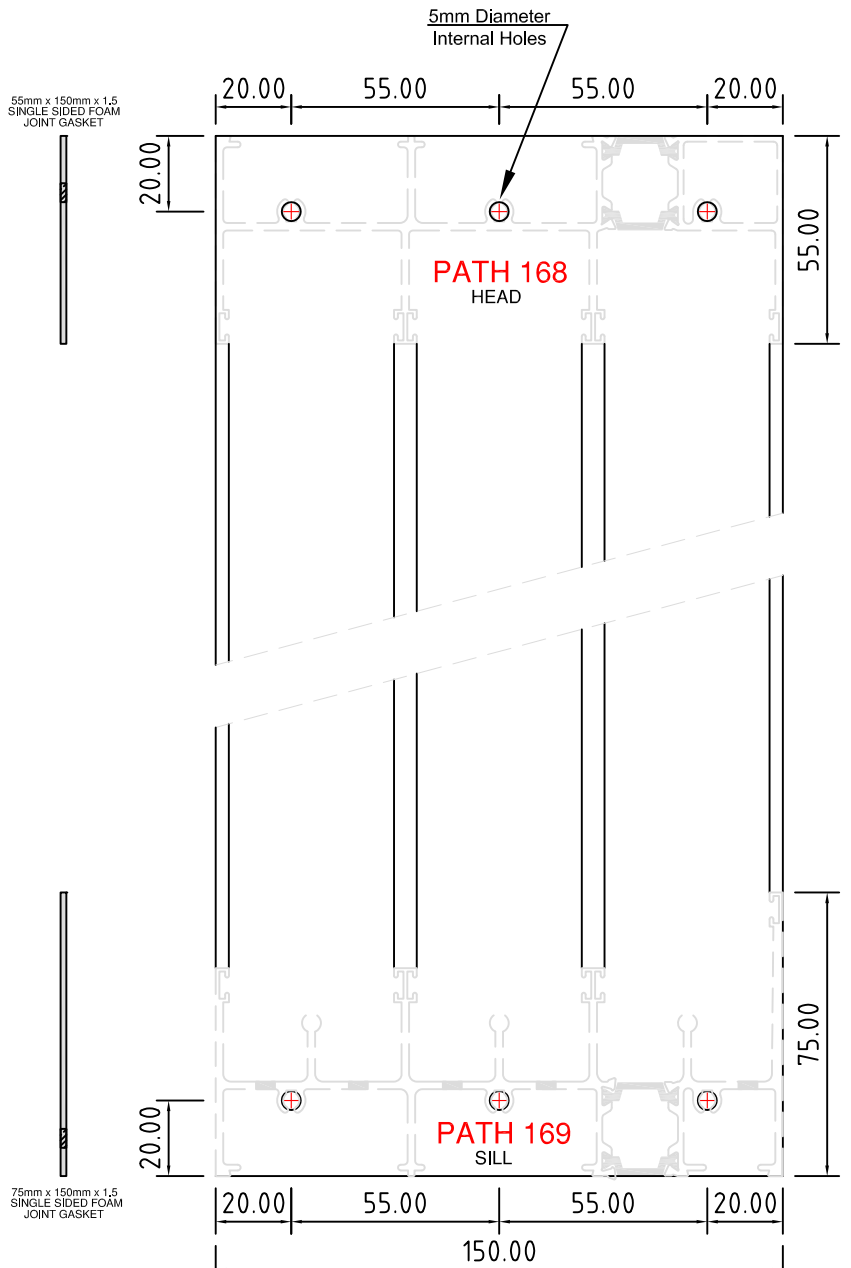
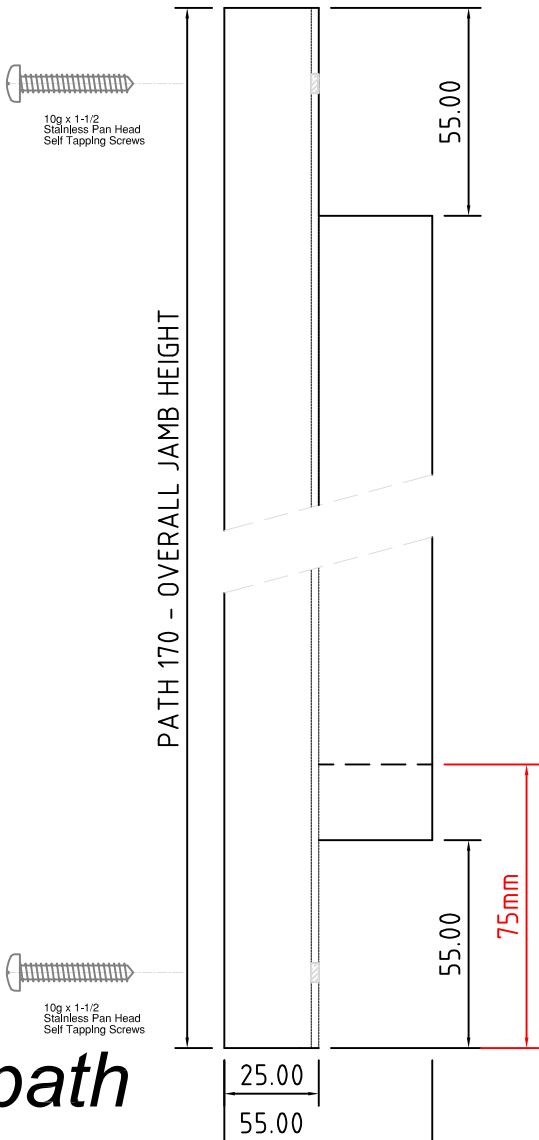
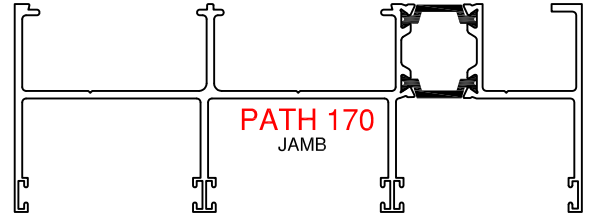
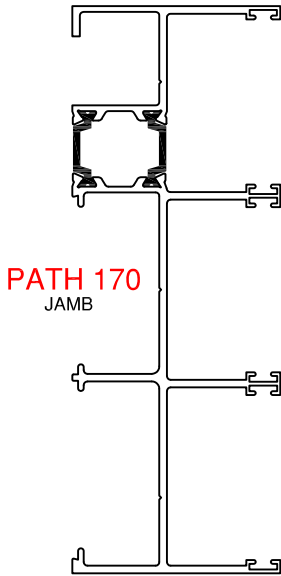


# PATH 170 - JAMB

## MACHINING DETAILS

TO SUIT PATH 168 HEAD & 171 SILL

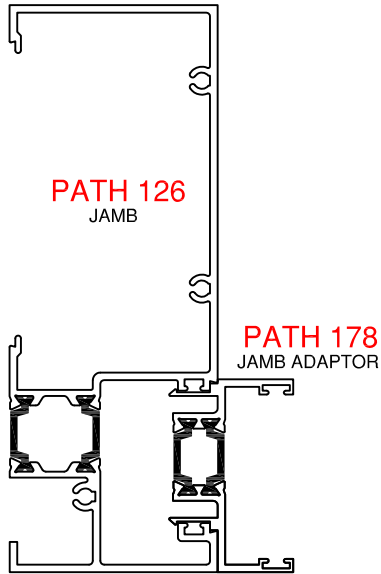
SCALE 1:2



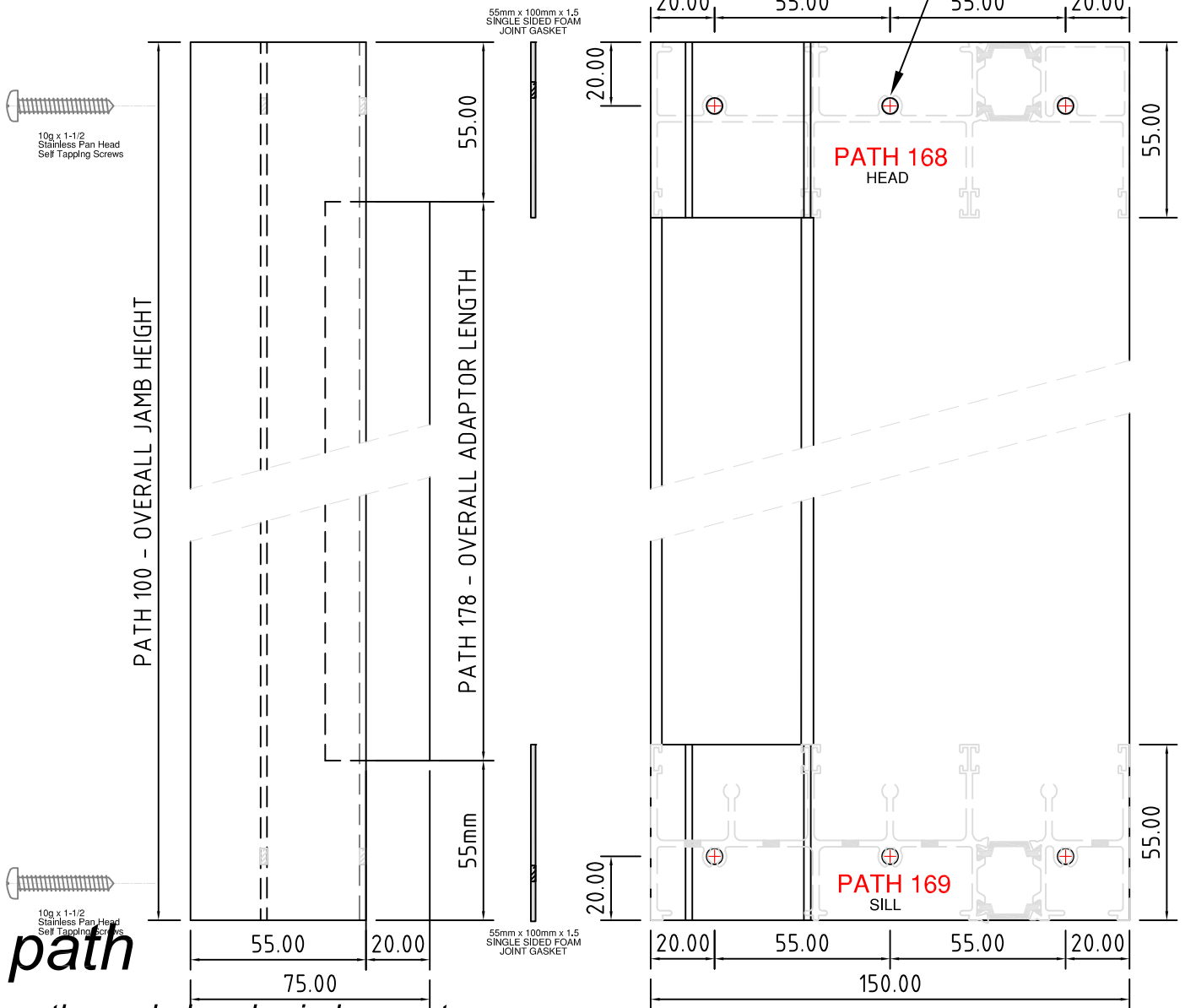
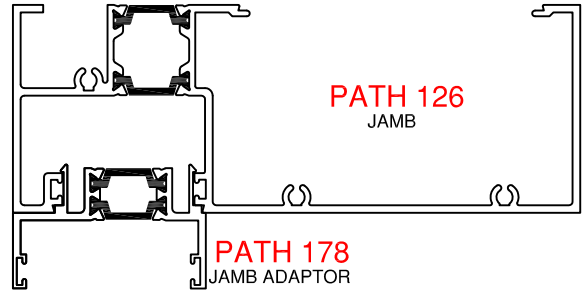
# PATH 126 - JAMB

## MACHINING DETAILS

### TO SUIT PATH 168 HEAD & 169 SILL



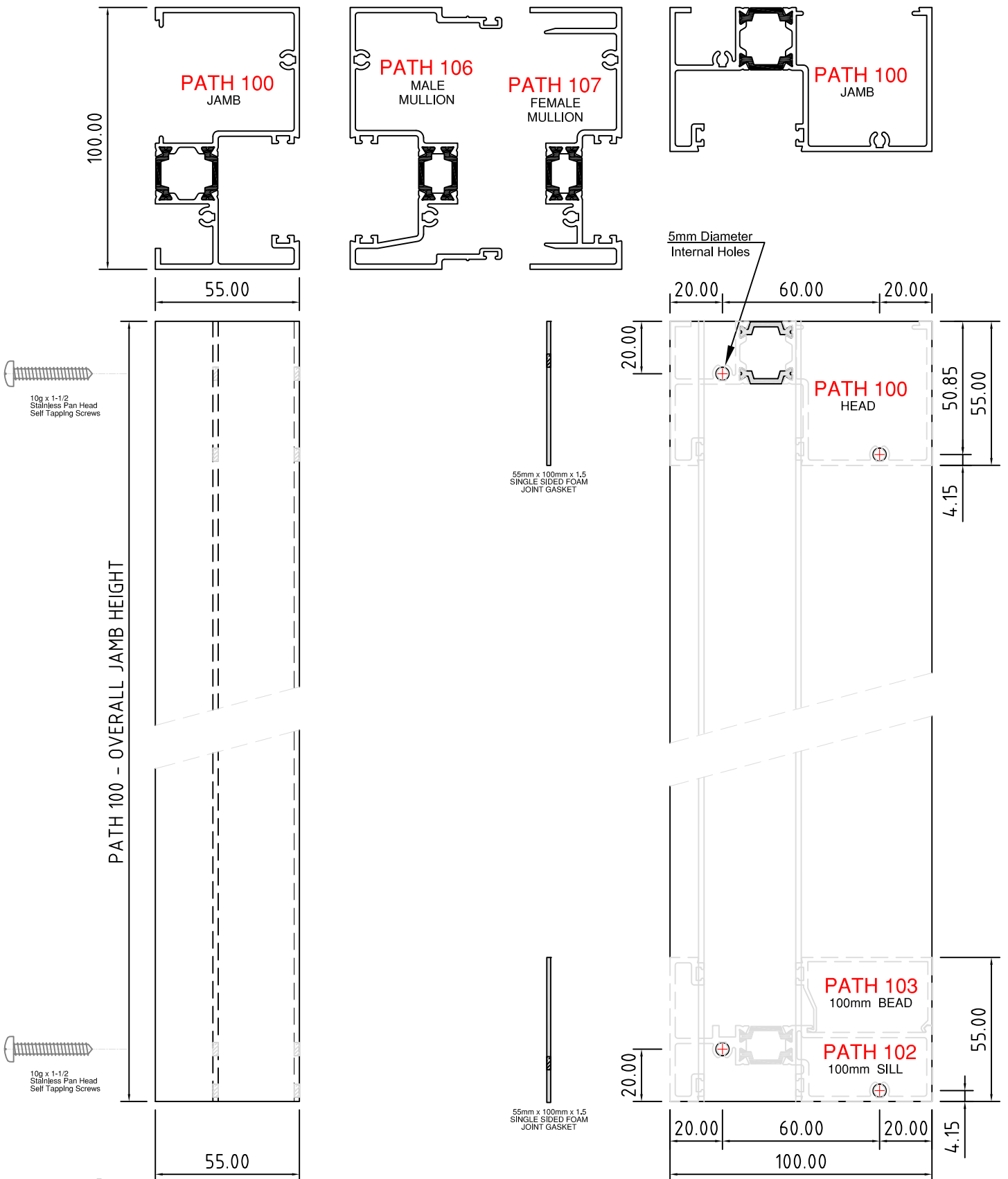
SCALE 1:2



# PATH 100 - FRAME / 106 & 107 MULLIONS

MACHINING DETAILS  
TO SUIT PATH 100 HEAD & 102 SILL

SCALE 1:2



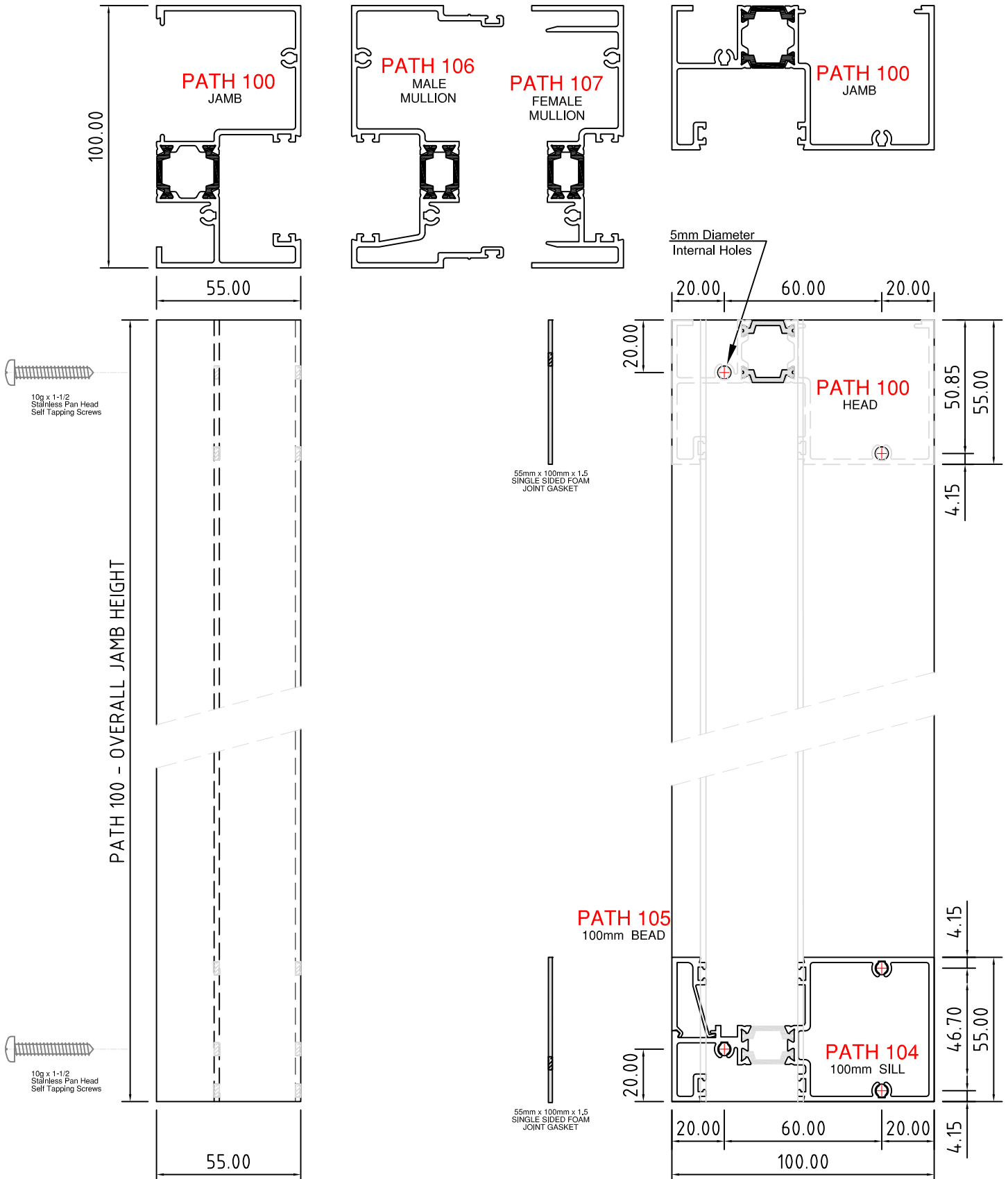
*path*

thermal break window system

# PATH 100 - FRAME / 106 & 107 MULLIONS

MACHINING DETAILS  
TO SUIT PATH 100 HEAD & 104 SILL

SCALE 1:2



*path*

thermal break window system

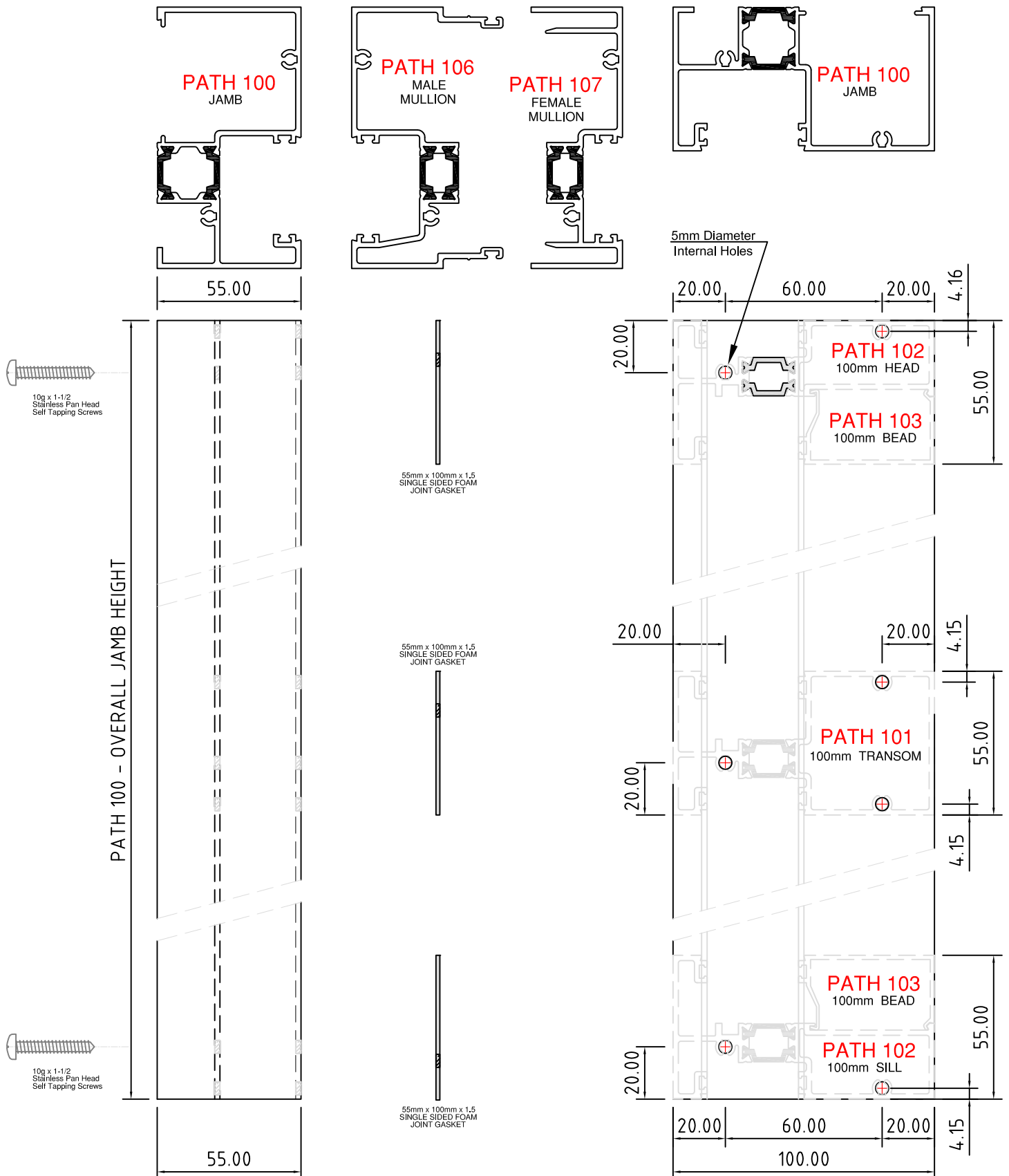


# PATH 100 - FRAME / 106 & 107 MULLIONS

## MACHINING DETAILS

TO SUIT PATH 102 HEAD / SILL & 101 TRANSOM

SCALE 1:2



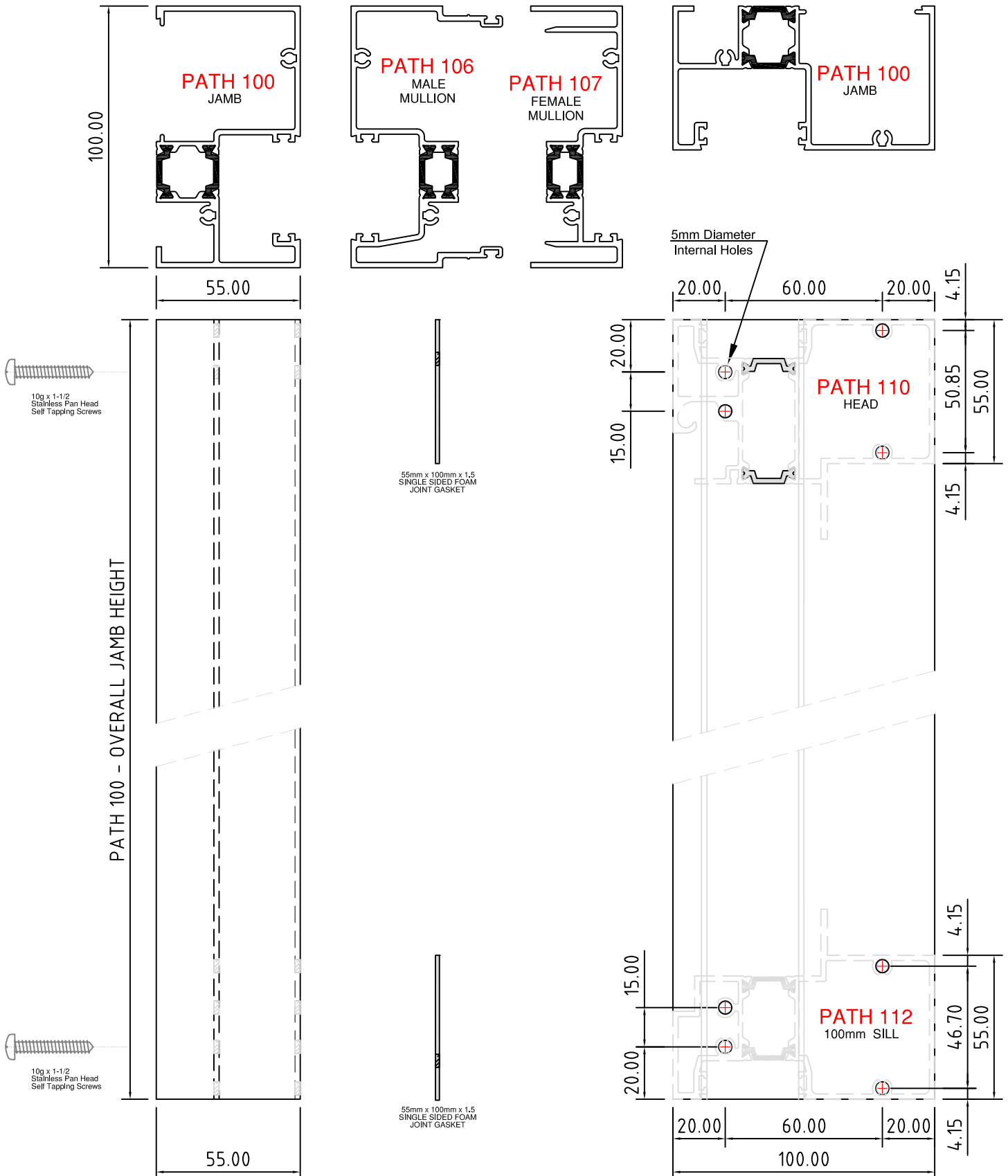
**path**

thermal break window system

# PATH 100 - FRAME / 106 & 107 MULLIONS

MACHINING DETAILS  
TO SUIT PATH 110 HEAD & 112 SILL

SCALE 1:2



*path*

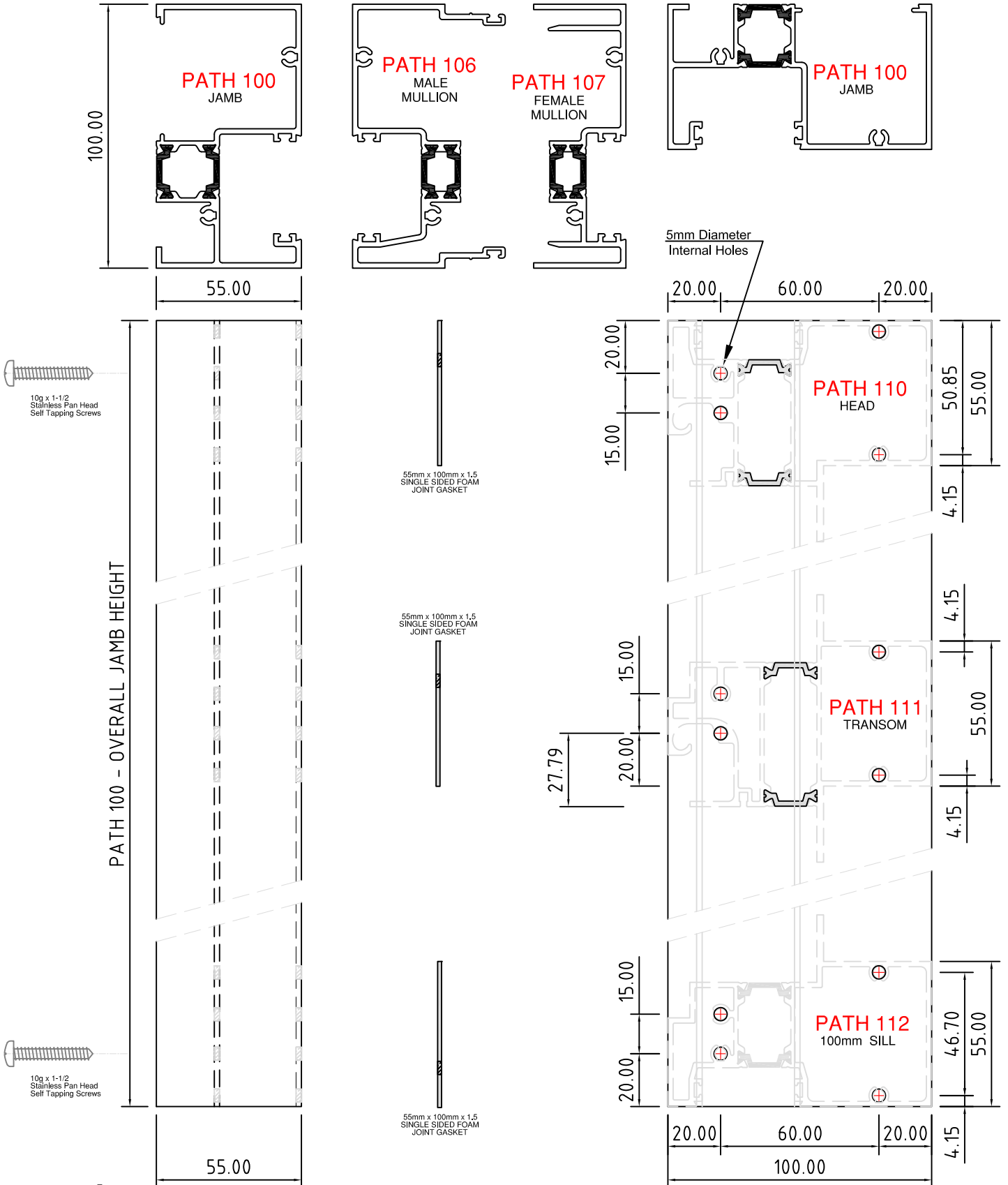
thermal break window system

# PATH 100 - FRAME / 106 & 107 MULLIONS

## MACHINING DETAILS

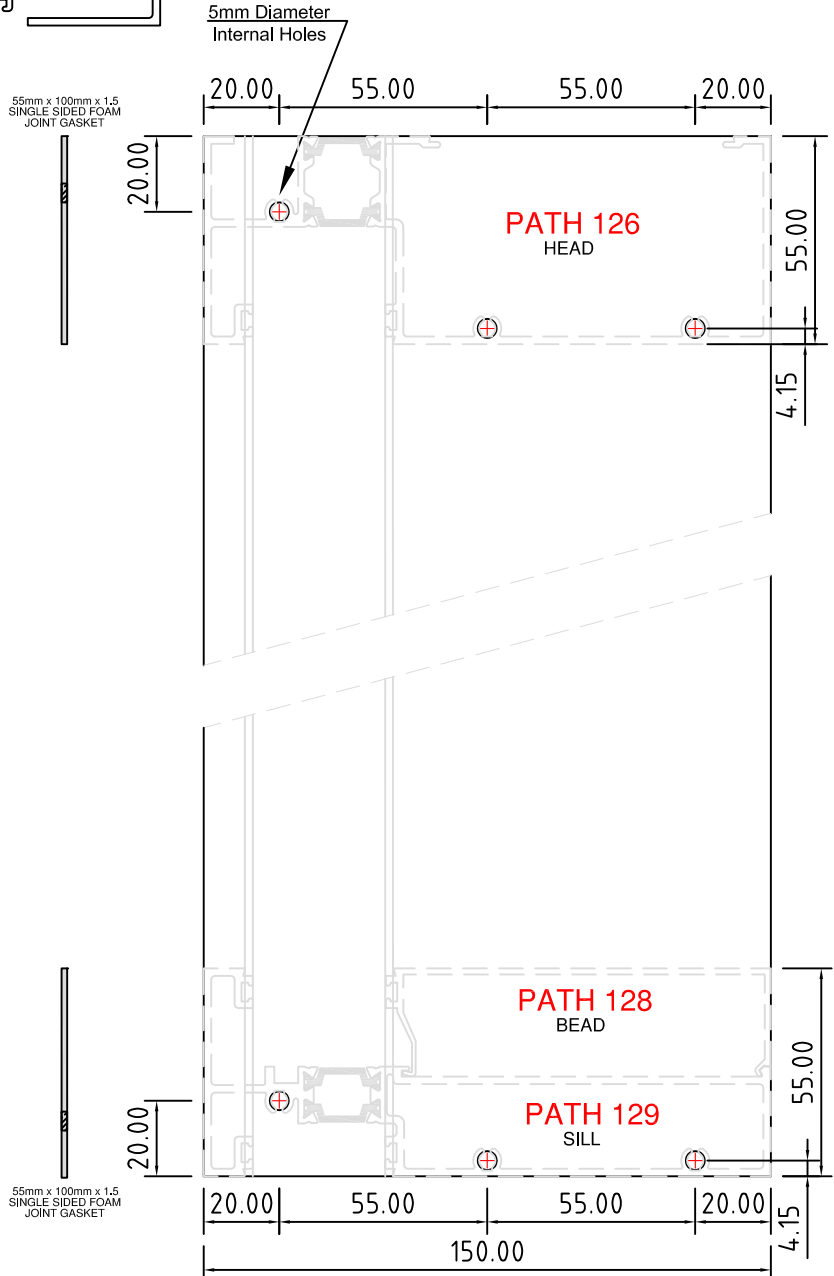
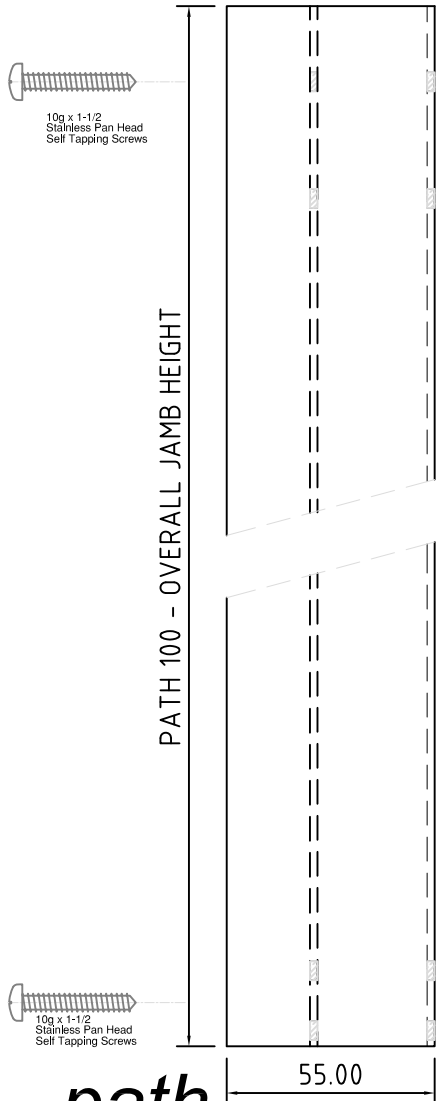
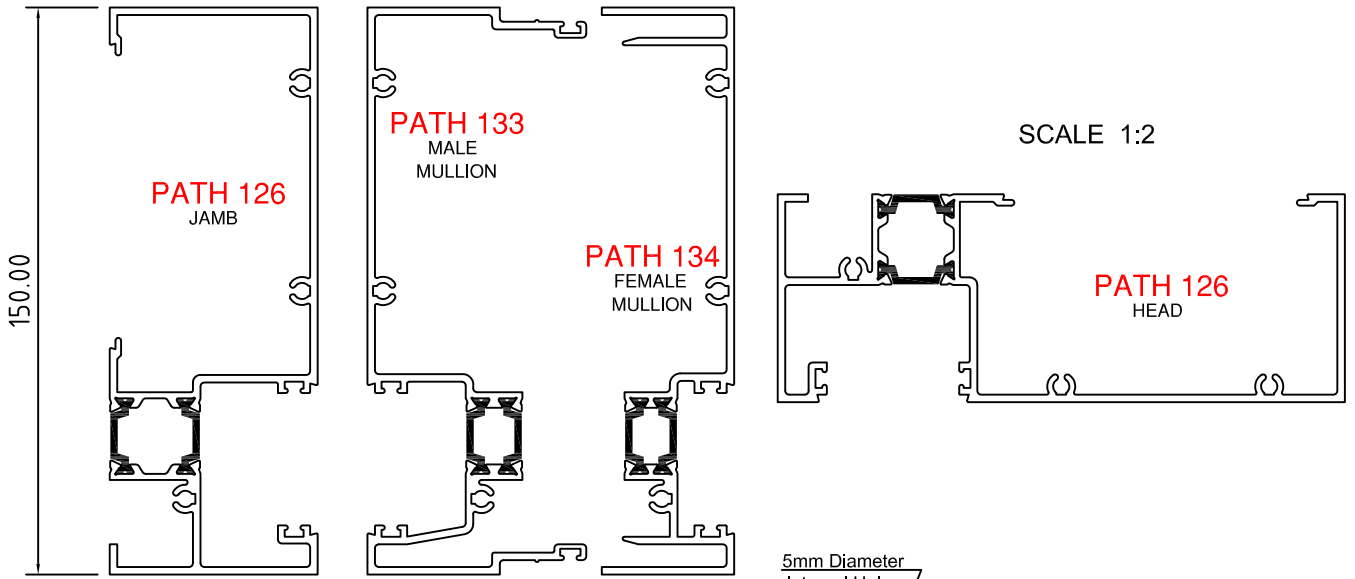
TO SUIT PATH 110 HEAD / 112 SILL & 111 TRANSOM

SCALE 1:2



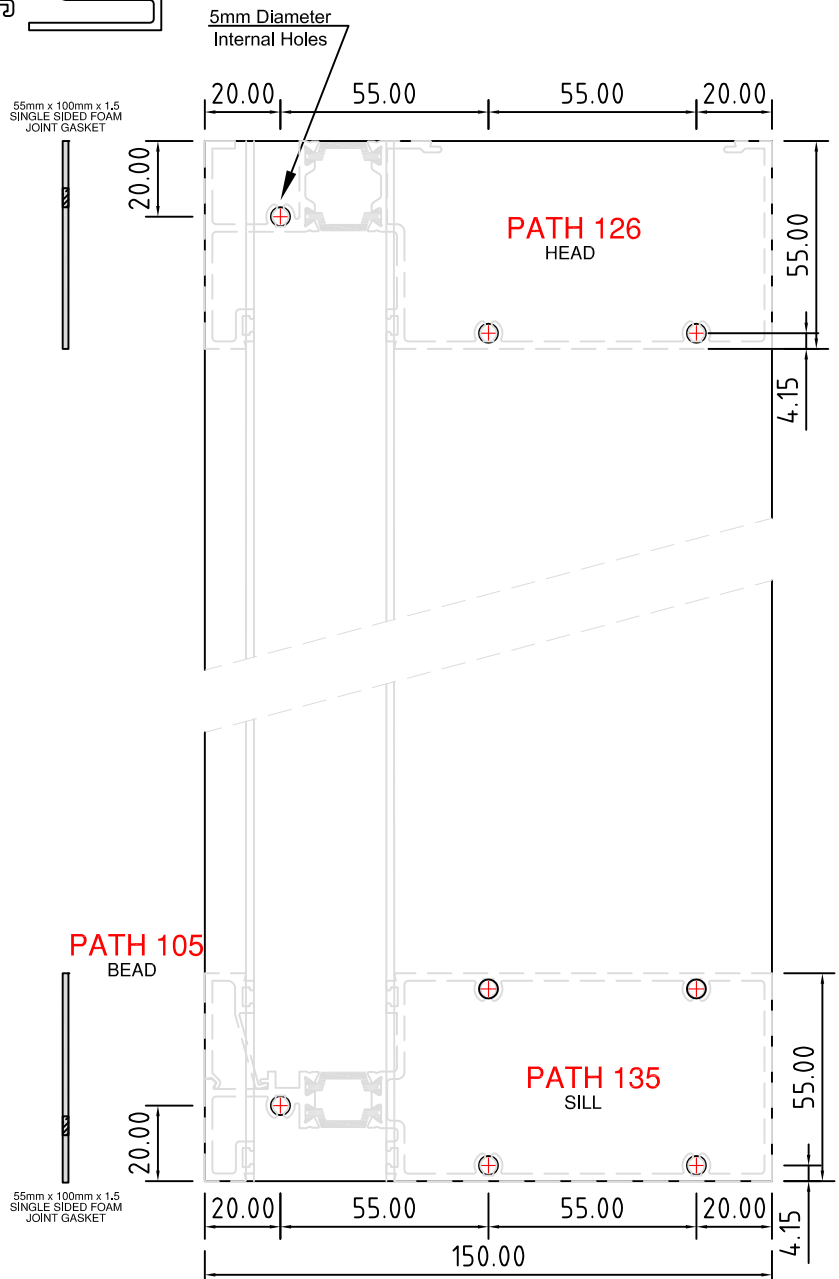
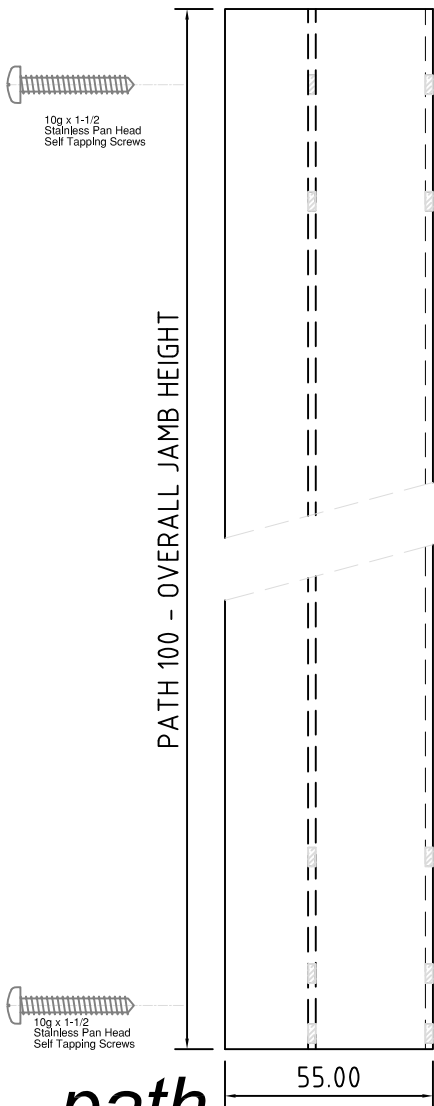
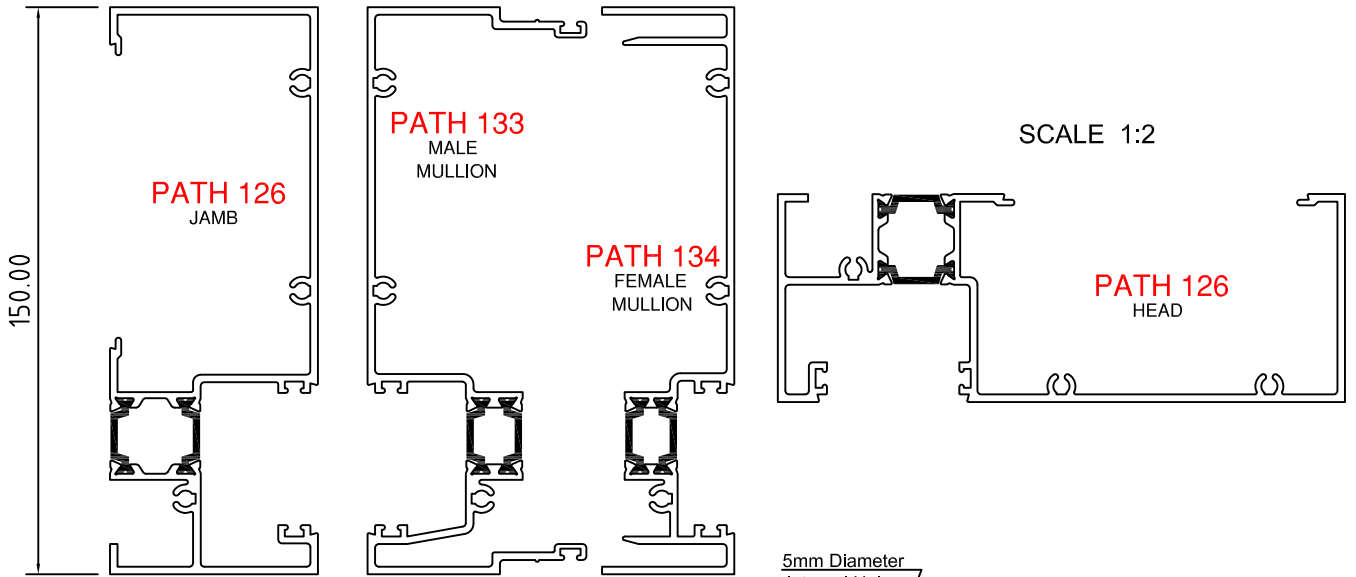
# PATH 126 - FRAME / 133 & 134 MULLIONS

MACHINING DETAILS  
TO SUIT PATH 126 HEAD & 129 SILL



# PATH 126 - FRAME / 133 & 134 MULLIONS

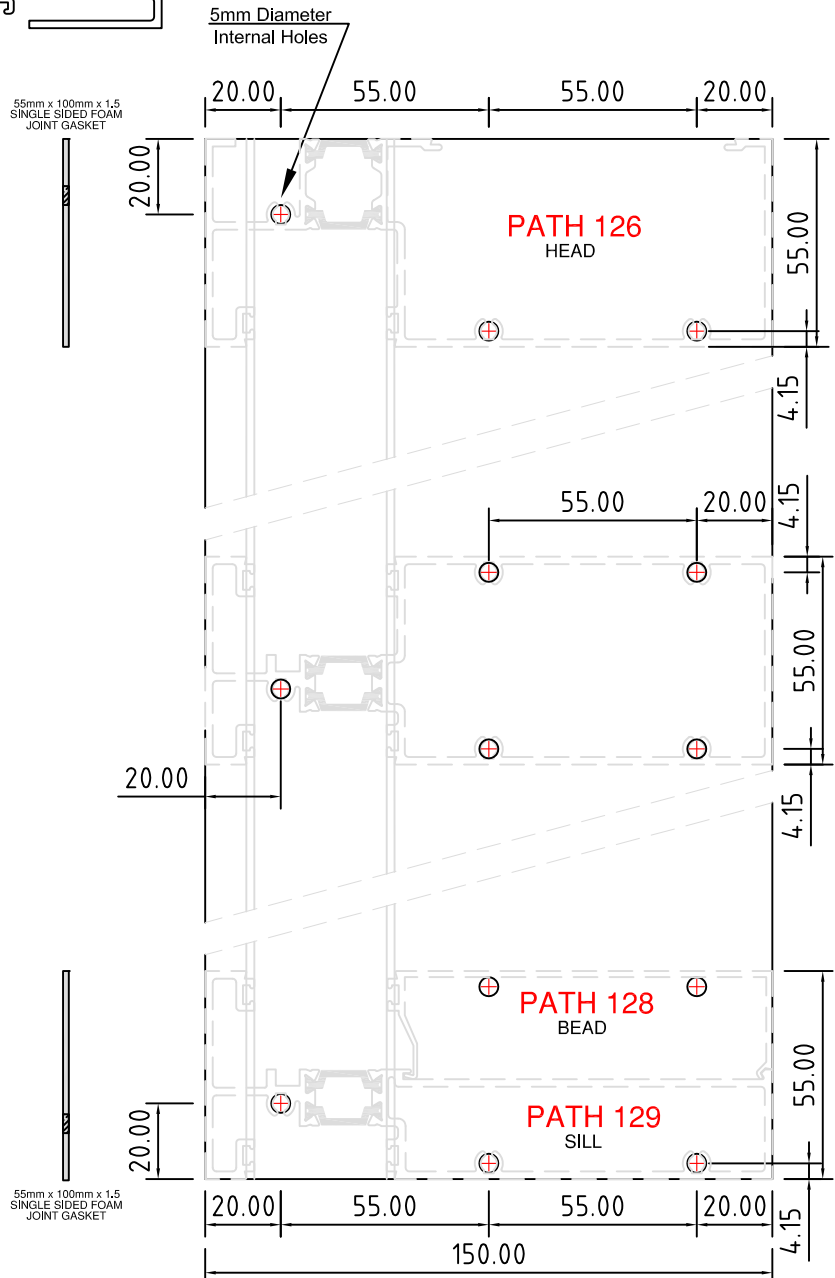
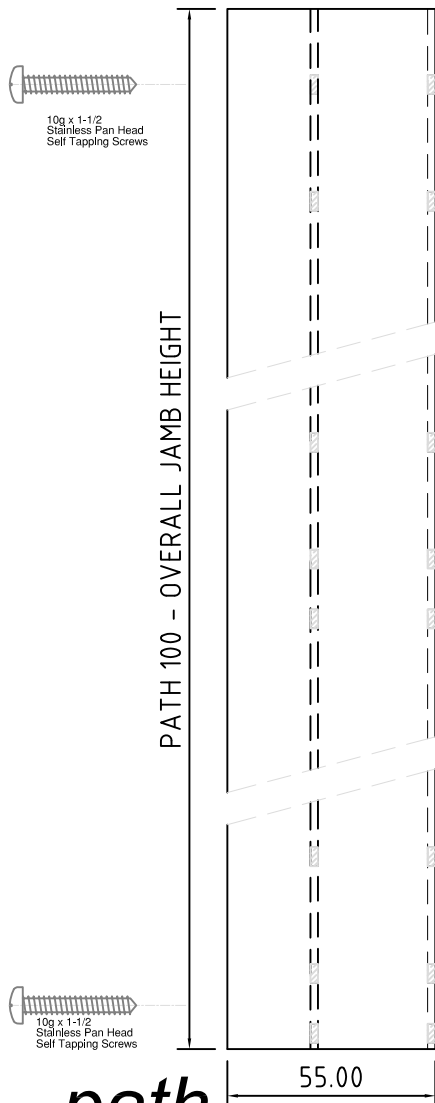
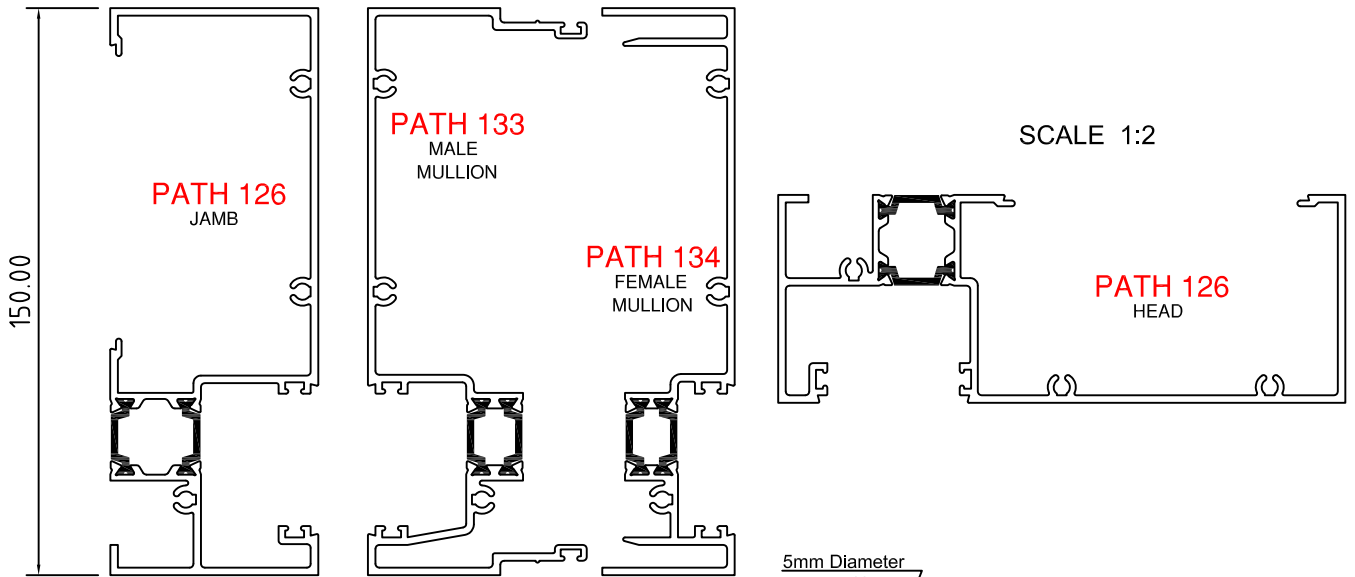
MACHINING DETAILS  
TO SUIT PATH 126 HEAD & 135 SILL



# PATH 126 - FRAME / 133 & 134 MULLIONS

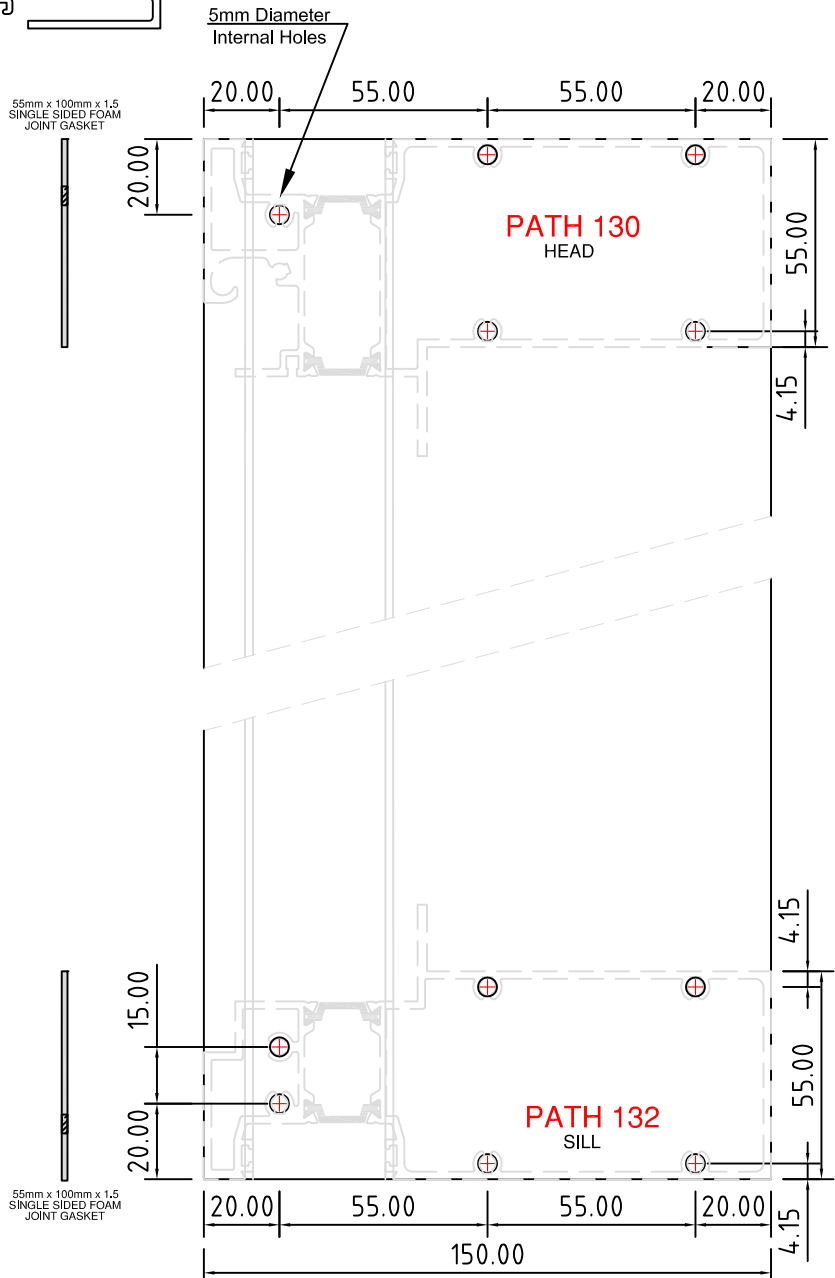
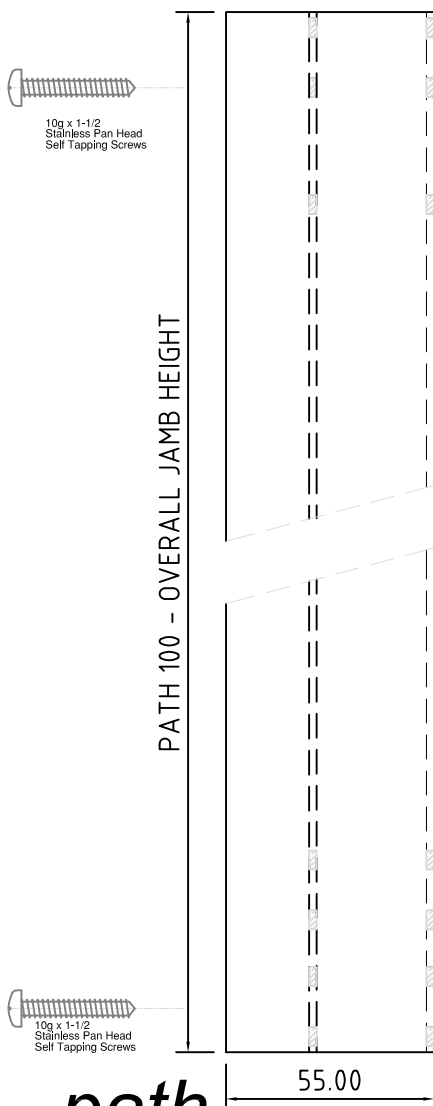
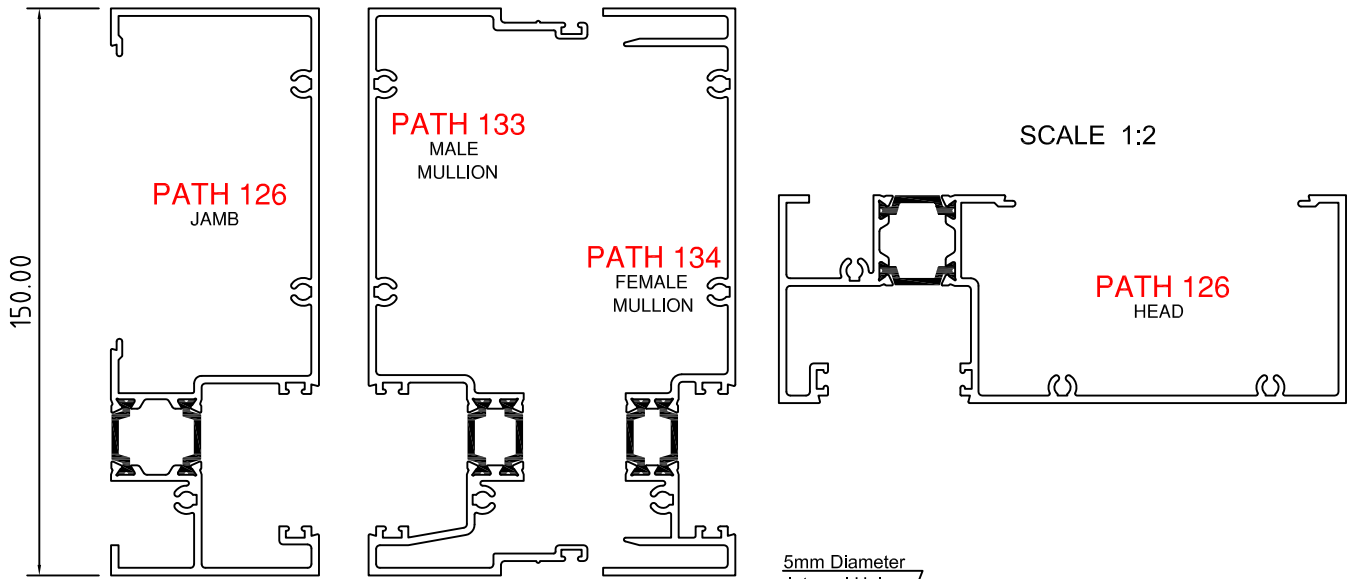
## MACHINING DETAILS

TO SUIT PATH 126 HEAD / 129 SILL & 127 TRANSOM



# PATH 126 - FRAME / 133 & 134 MULLIONS

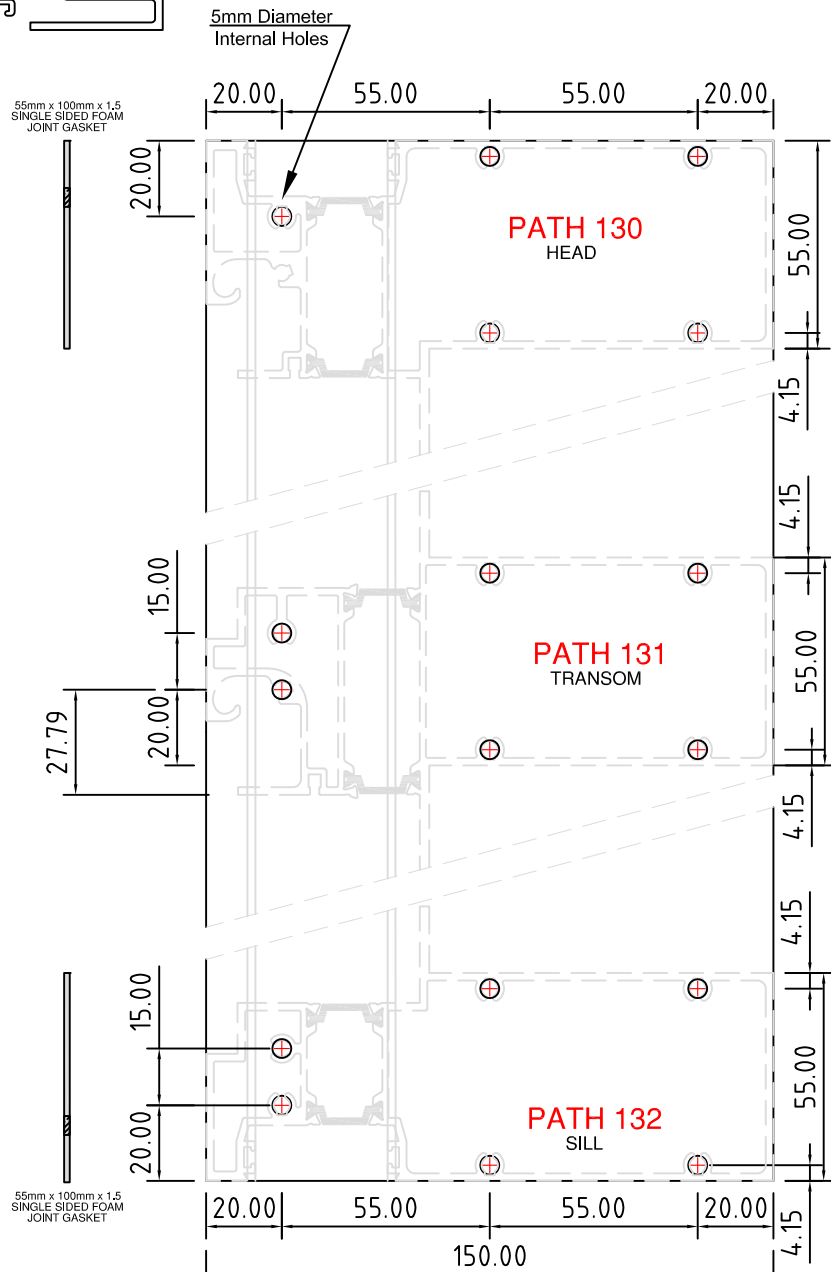
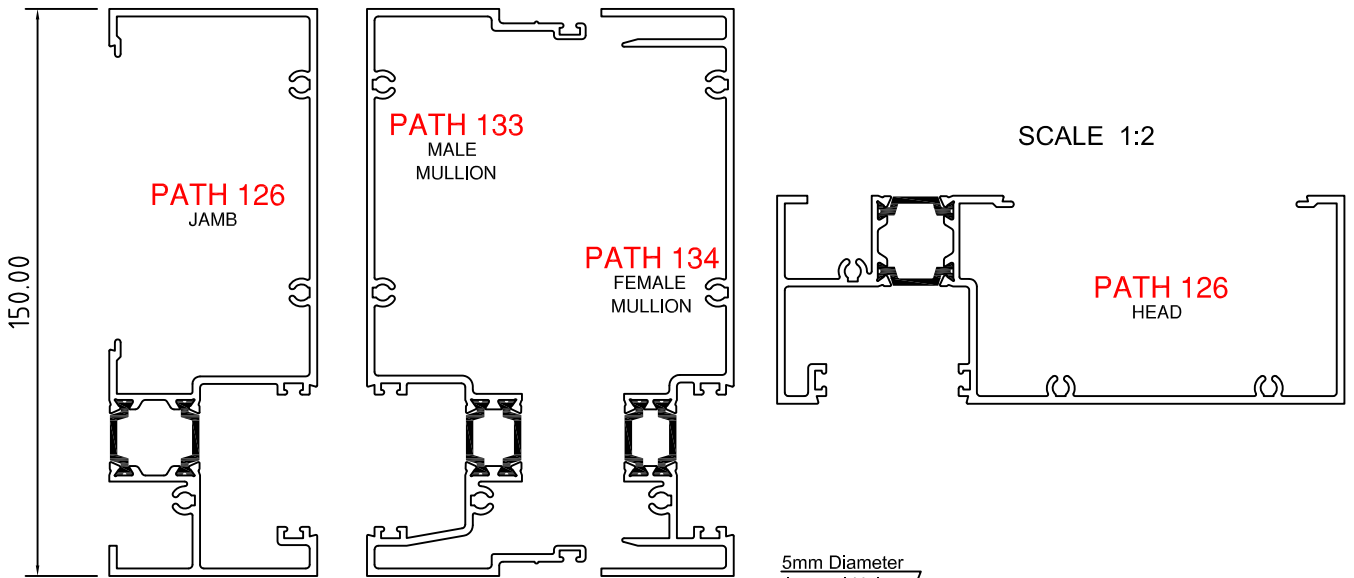
MACHINING DETAILS  
TO SUIT PATH 130 HEAD & 132 SILL



# PATH 126 - FRAME / 133 & 134 MULLIONS

## MACHINING DETAILS

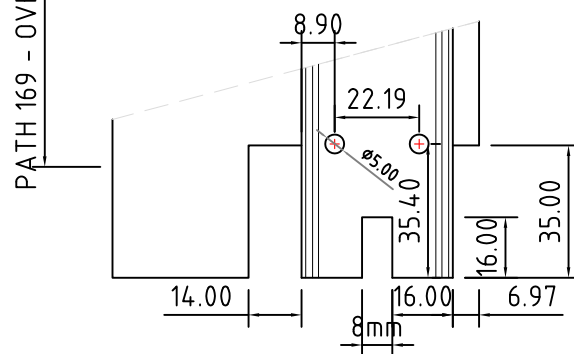
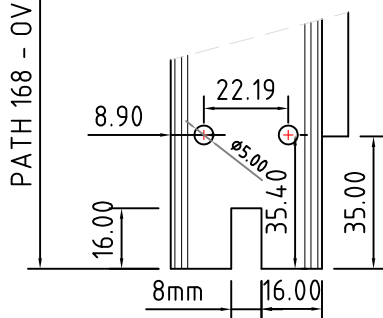
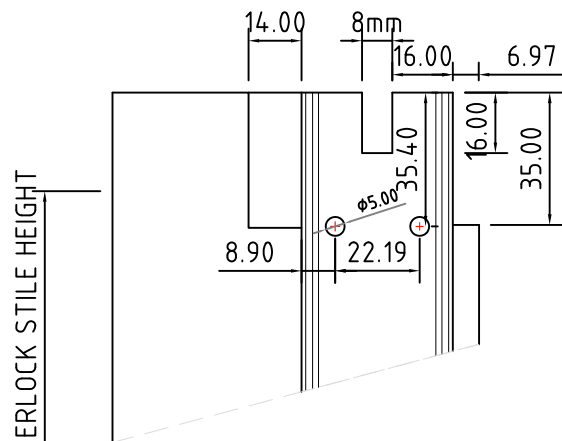
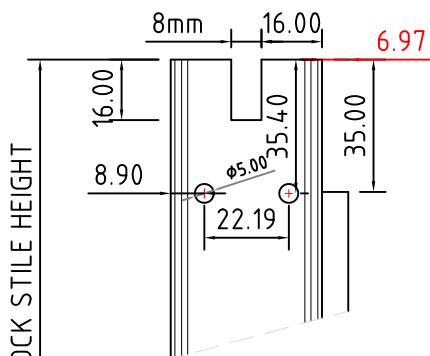
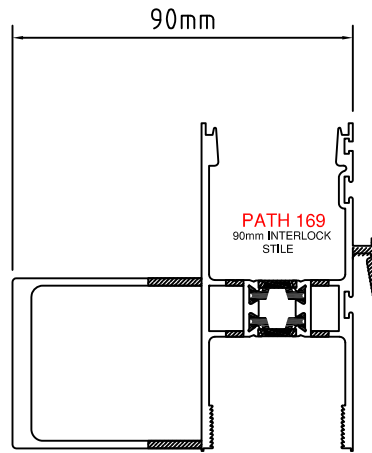
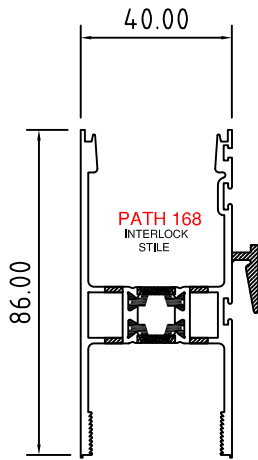
TO SUIT PATH 130 HEAD / 132 SILL & 131 TRANSOM





# PATH 168 - 169 INTERLOCKS MACHINING DETAILS

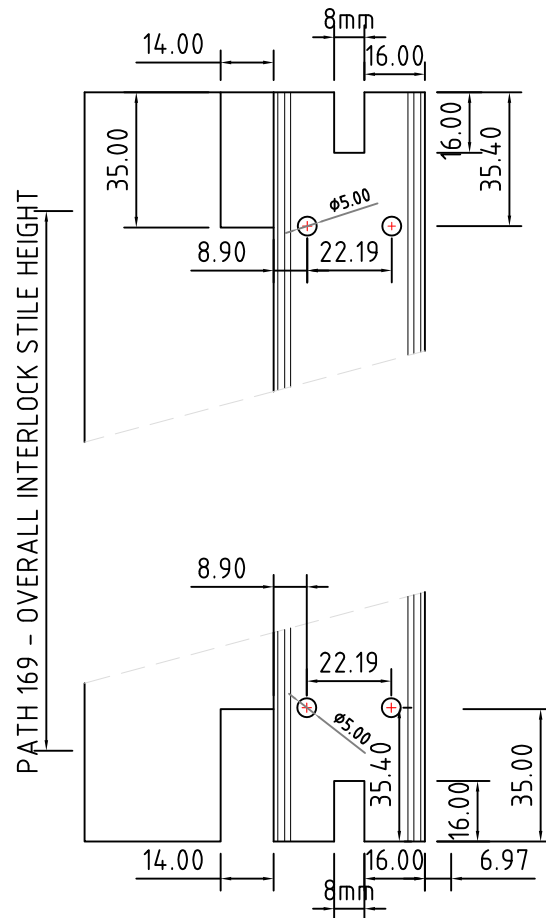
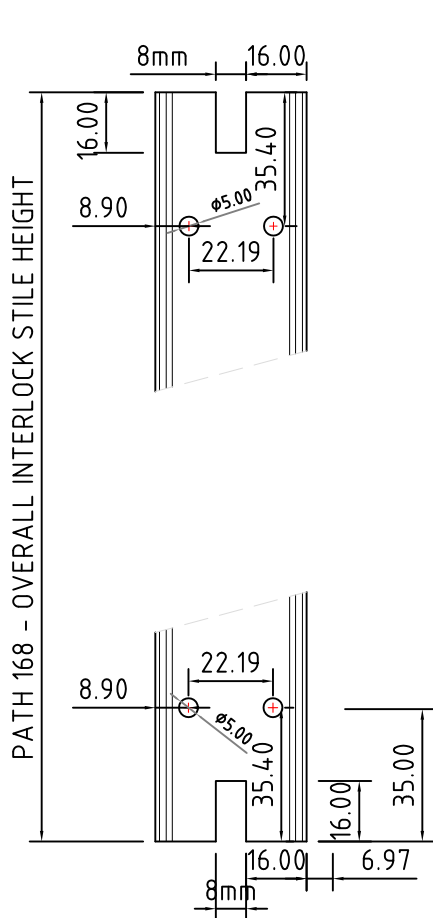
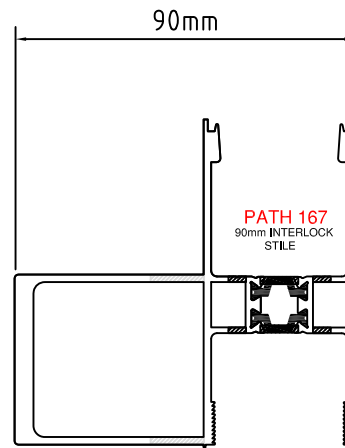
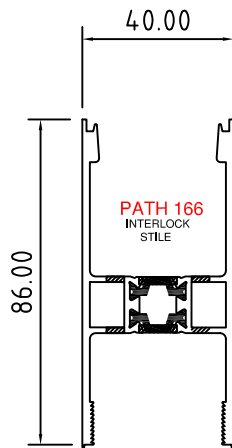
SCALE 1:2



# PATH 166 - 167 STILES

## MACHINING DETAILS

SCALE 1:2

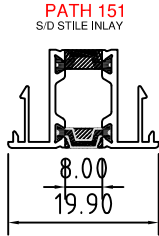


# PATH 151 - 153 - 152 - 148

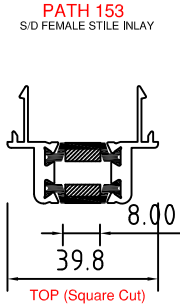
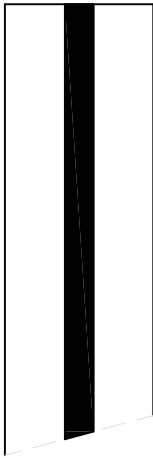
## STILE INLAYS

### MACHINING DETAILS

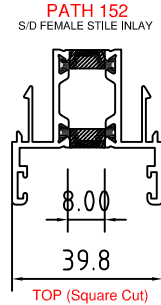
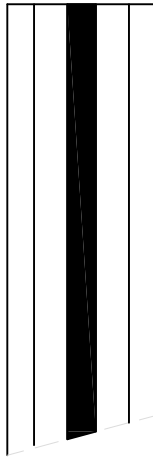
SCALE 1:2



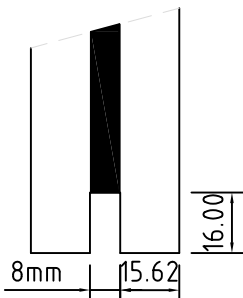
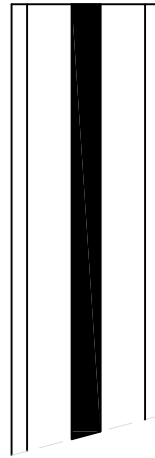
TOP (Square Cut)



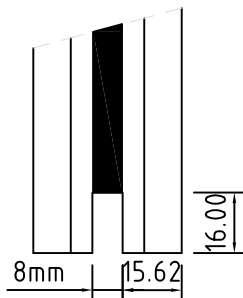
TOP (Square Cut)



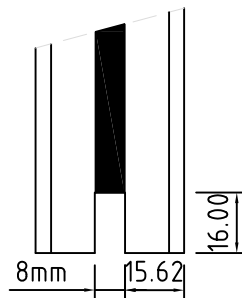
TOP (Square Cut)



BOTTOM (Square Cut)  
Punching as Shown



BOTTOM (Square Cut)  
Punching as Shown

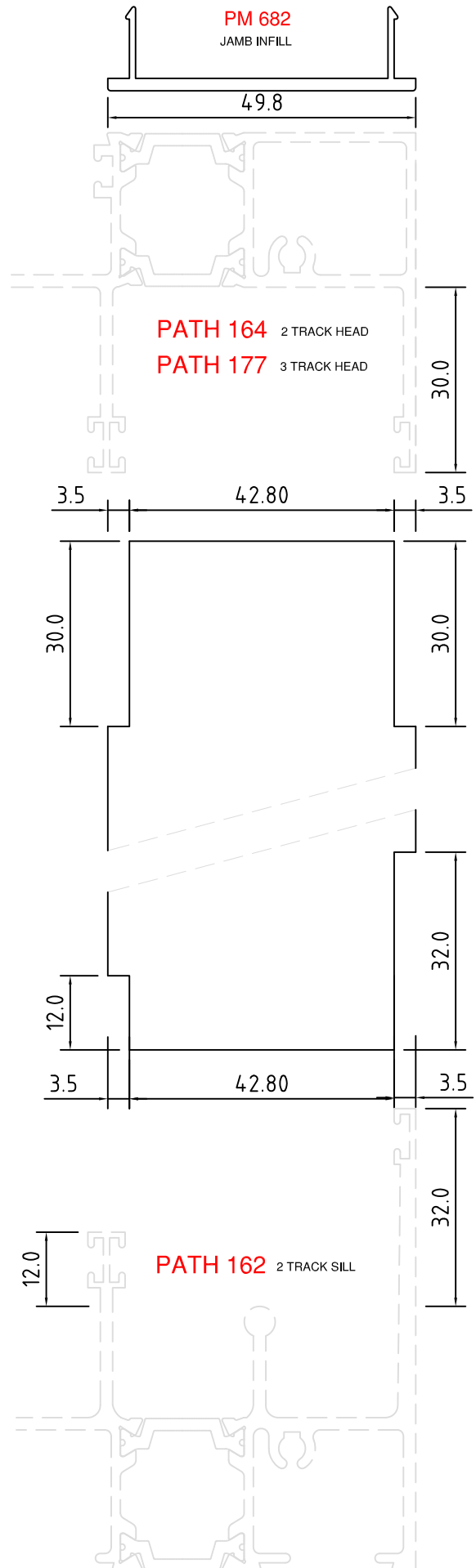
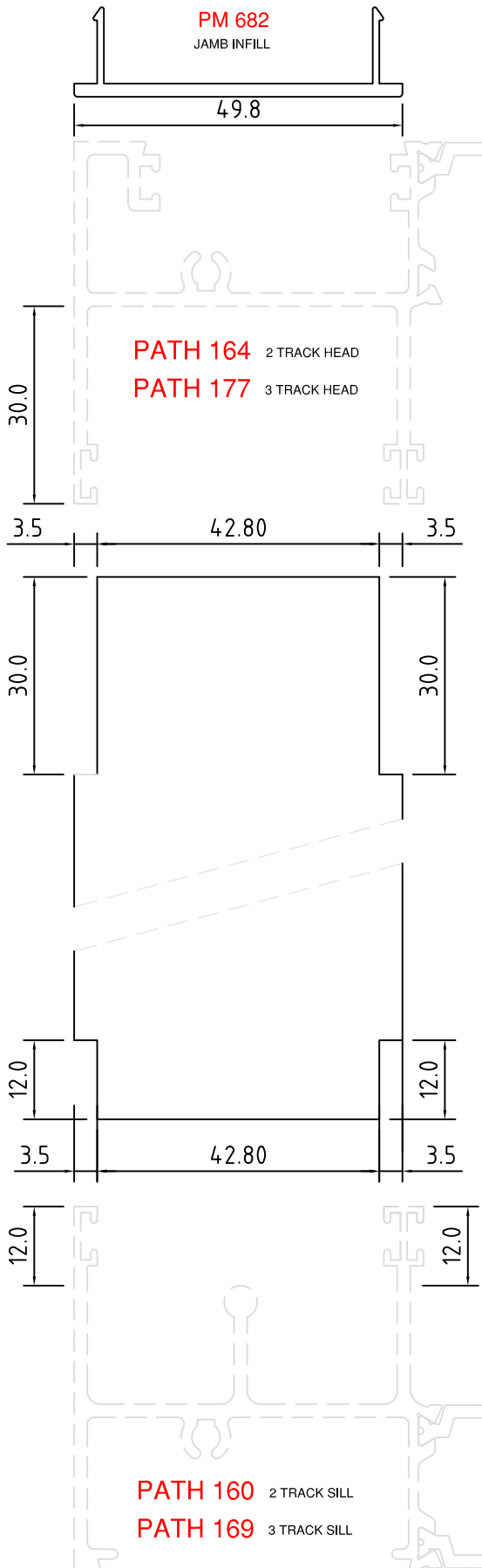


BOTTOM (Square Cut)  
Punching as Shown

# PM 682 INFILL

## MACHINING DETAILS

SCALE 1:1



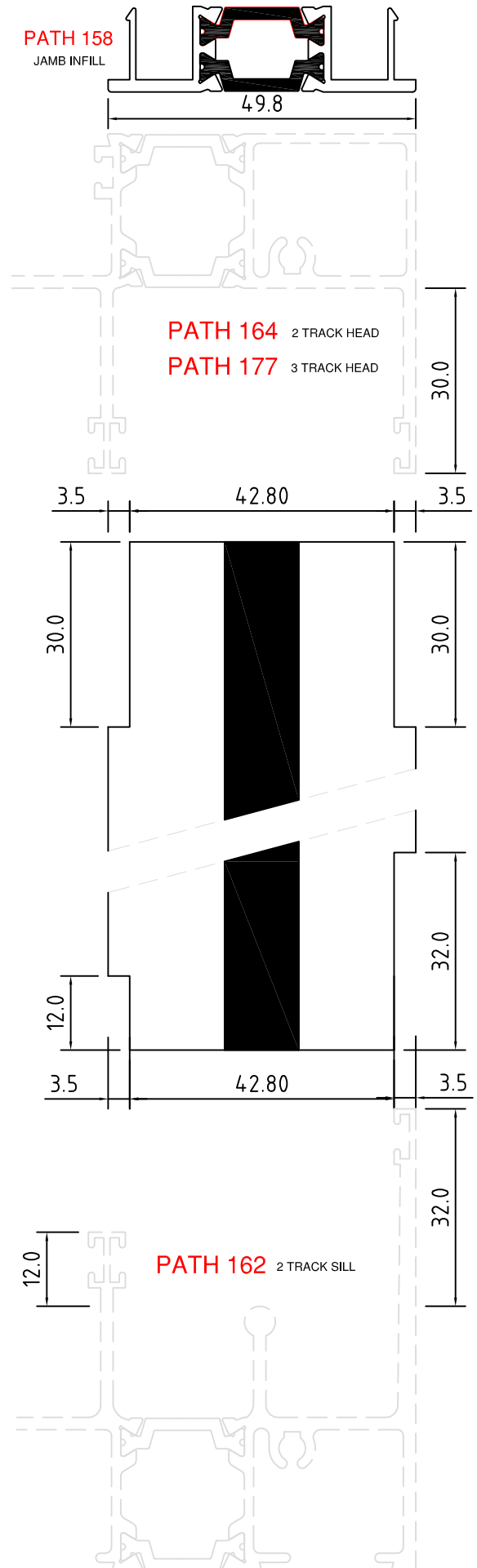
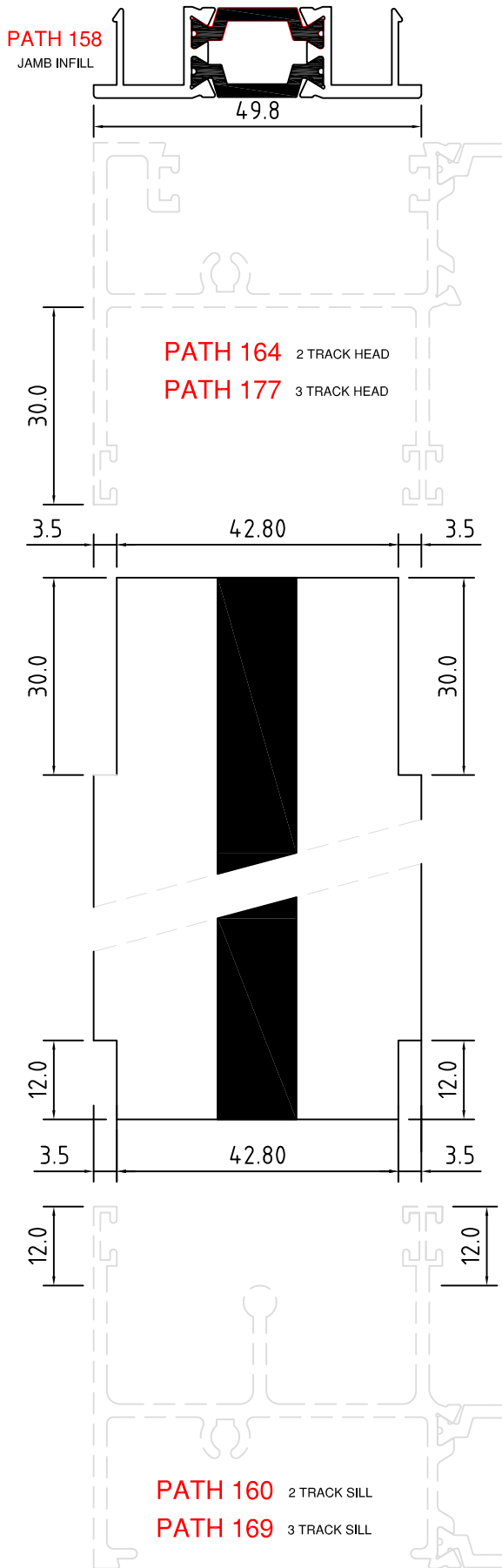
**path**

thermal break window system

# PATH 158 INFILL

## MACHINING DETAILS

SCALE 1:1



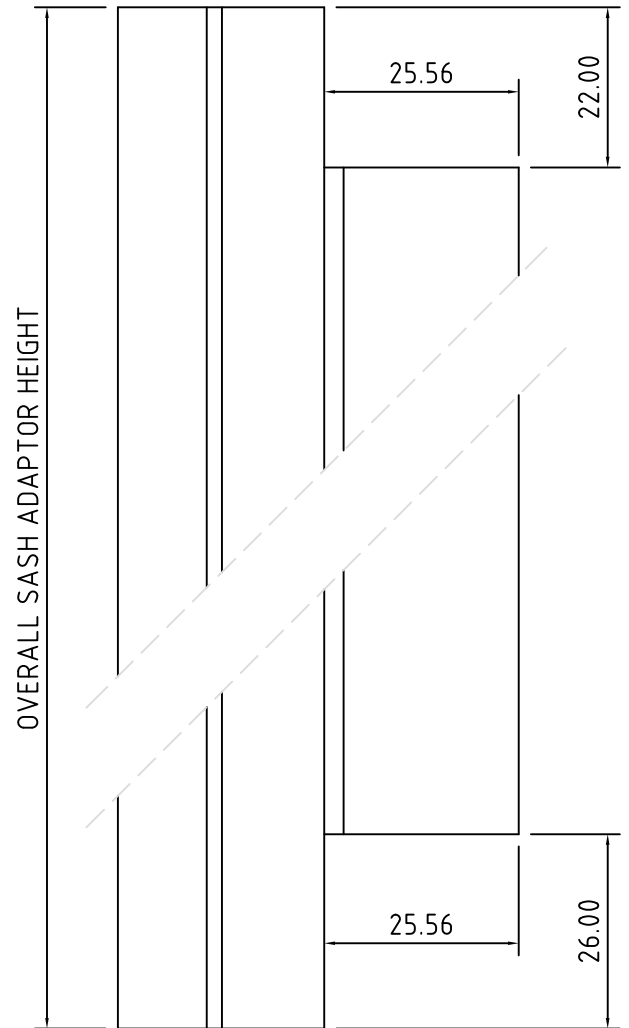
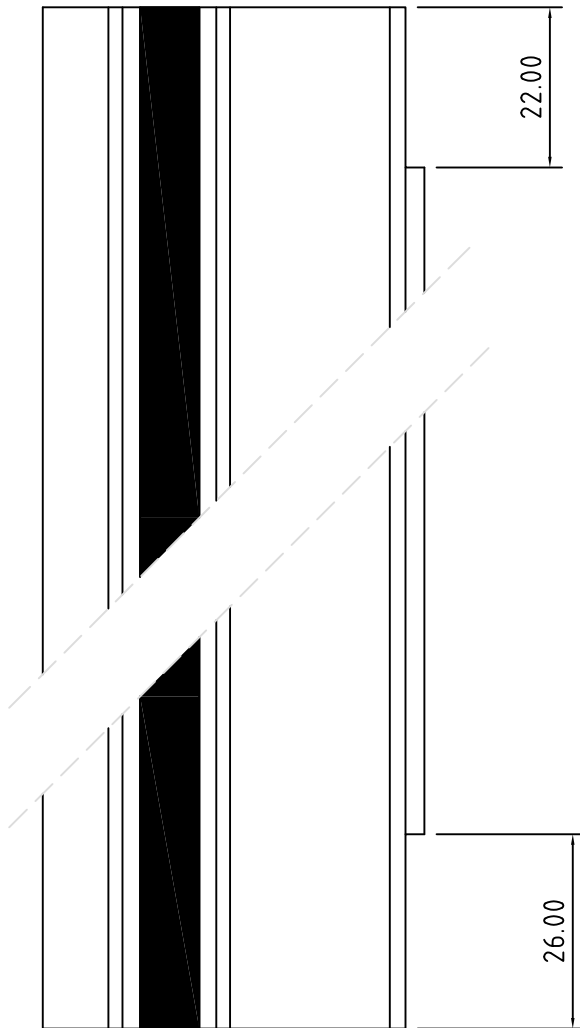
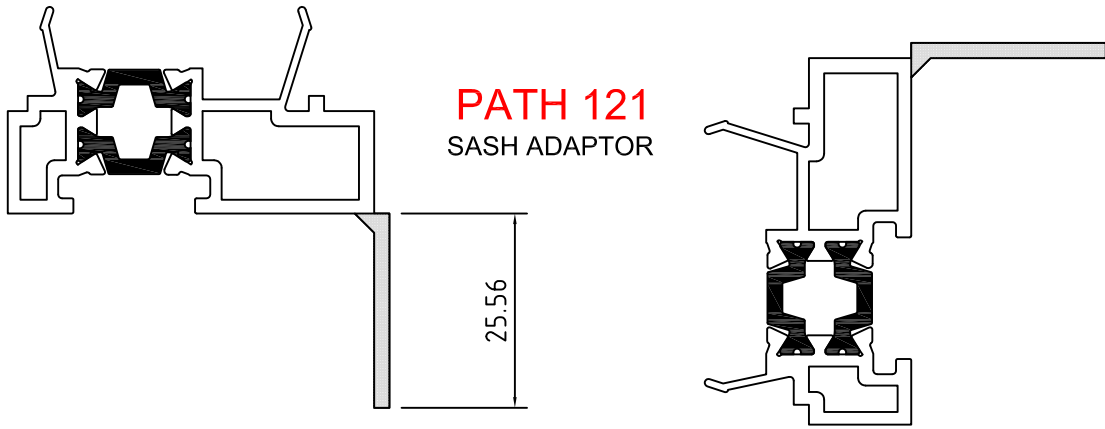
**path**

thermal break window system

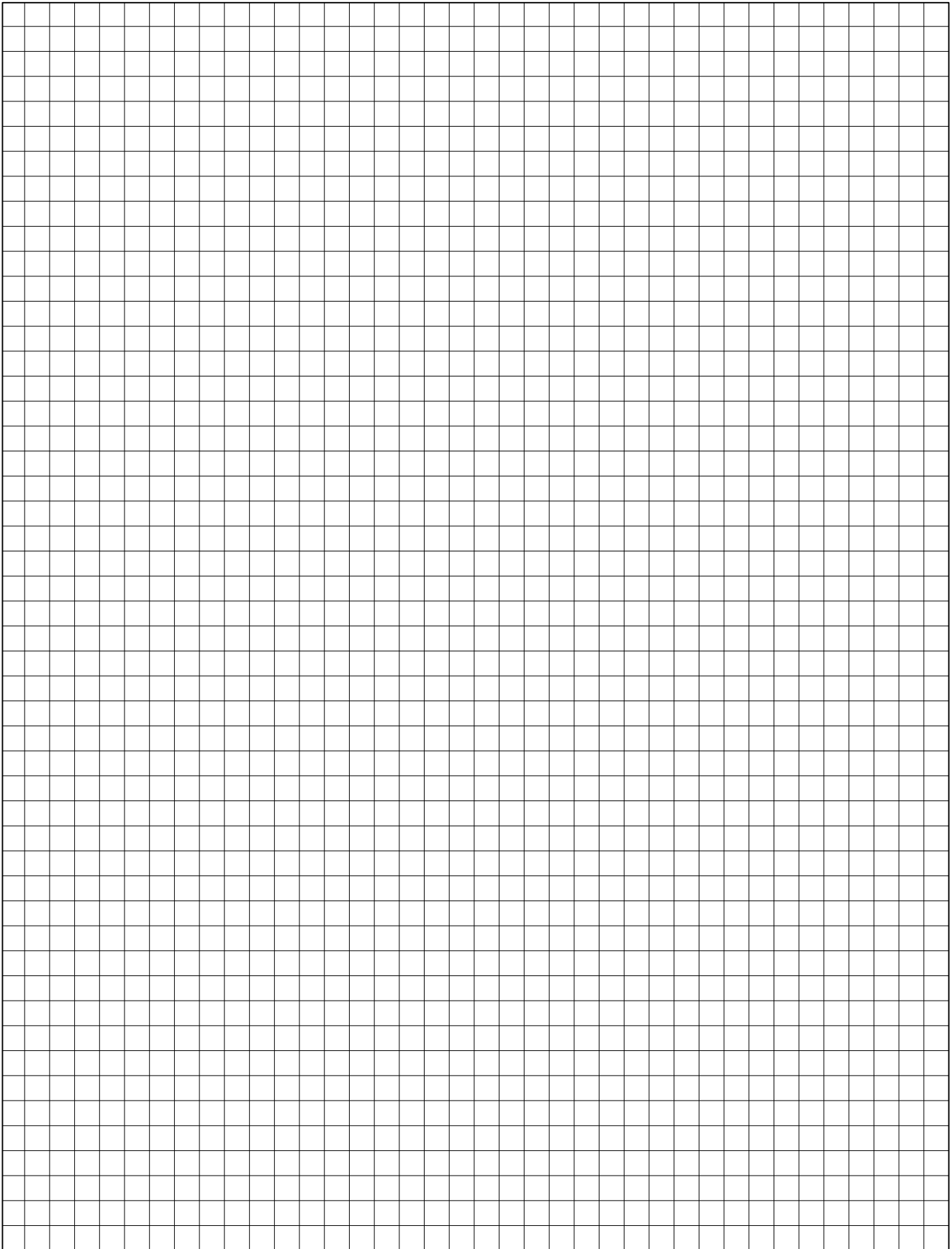
# PATH AWNING SASH PATH 121 - SASH ADAPTOR

MACHINING DETAILS

SCALE 1:1



NOTES:



*path*

thermal  break window system